

CONSTRUCTION DOCUMENTS

BUILDING 15 DEMOLITION

South Carolina Department of Mental Health
Crafts Farrow State Hospital Campus
7901 Farrow Road
Columbia, South Carolina 29203

SC State Project No. J12-9832-PG



April 11, 2023

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PROJECT NUMBER: J12-9832-PG

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TECHNICAL SPECIFICATIONS

SE-311**INVITATION FOR MINOR CONSTRUCTION QUOTES****AGENCY/OWNER:** SC Department of Mental Health**PROJECT NAME:** Crafts Farrow State Hospital Building 15 Demolition**PROJECT NUMBER:** J12-9832-PG **CONSTRUCTION COST RANGE:** \$ 40,000 to \$ 90,000**PROJECT LOCATION:** 7901 Farrow Rd. Columbia, SC 29203**DESCRIPTION OF PROJECT:** Demolition and removal of Building 15.**QUOTE DUE DATE:** 5/11/23**TIME:** 2:00 PM**AGENCY PROJECT COORDINATOR:** Randy Carver**EMAIL:** david.carver@scdmh.org**TELEPHONE:** 843-245-6690**DOCUMENTS MAY BE OBTAINED FROM:** david.carver@scdmh.org**DOCUMENT DEPOSIT AMOUNT:** \$ N/A **IS DEPOSIT REFUNDABLE** Yes ☐ No ☐ N/A ☒**PERFORMANCE BOND REQUIRED?** Yes ☒ No ☐ **PAYMENT BOND REQUIRED?** Yes ☒ No ☐

Contractors must obtain Documents/Plans from the above listed source(s) to be listed as an official plan holder. All written communications with official plan holders & Contractors submitting quotes will be via email or website posting.

PUBLIC NOTICES: All notices (Notice of Award) shall be posted at the following location: Building 4 Bulletin Board 7901 Farrow Rd. Columbia, SC 29203

RIGHT TO PROTEST (SC Code § 11-35-4210) *(This only applies to contracts exceeding \$50,000.)*

Any actual bidder, offeror, contractor or subcontractor who is aggrieved in connection with this solicitation or the intended award or award of a contract under this solicitation may protest to the State Engineer in accordance with Section 11-35-4210 at: CPO, Office of State Engineer, 1201 Main Street, Suite 600, Columbia, SC 29201. EMAIL: protest-ose@mso.sc.gov

All questions & correspondence concerning this Invitation shall be addressed to the A/E.

A/E NAME: S&ME**A/E CONTACT:** Tom Behnke**EMAIL:** Tom Behnke <TBehnke@smeinc.com>**TELEPHONE:** 803-237-2472**PRE-QUOTE CONFERENCE:** Yes ☒ No ☐ **DATE:** May 2, 2023 **TIME:** 2:00 PM**PRE-QUOTE PLACE:** Building 14 Crafts Farrow Campus 7901 Farrow Rd. Columbia, SC 29203**QUOTE DELIVERY ADDRESSES:****HAND-DELIVERY:****Attn:** Randy Carver7901 Farrow Rd. Building 4 Room 106Columbia, SC 29203**MAIL SERVICE:****Attn:** Randy Carver7901 Farrow Rd. Building 4 Room 106Columbia, SC 29203**IS PROJECT WITHIN AGENCY CONSTRUCTION CERTIFICATION? (Agency *MUST* check one)** Yes ☒ No ☐

APPROVED BY: _____ **DATE:** _____
(OSE Project Manager)

SE-331

QUOTE FORM

QUOTE SUBMITTED BY: _____
(Offeror's Name)

QUOTE SUBMITTED TO: _____
(Agency's Name)

FOR: PROJECT NAME: Crafts Farrow State Hospital Building Demolition
PROJECT NUMBER: J12-9832-PG

OFFER

§ 1. In response to the Invitation for Minor Construction Quotes for the above-named Project, the undersigned **OFFEROR** proposes and agrees, if this Quote is accepted, to enter into a Contract with the Agency in the form included in the Solicitation Documents, and to perform all Work as specified or indicated in the Solicitation Documents, for the prices and within the time frames indicated in the Solicitation and in accordance with the other terms and conditions stated.

§ 2. **OFFEROR** acknowledges the receipt of the following Addenda to the Solicitation documents and has incorporated the effects of said Addenda into its Quote (*Check only boxes that apply.*):

ADDENDA: ☐ #1 ☐ #2 ☐ #3 ☐ #4 ☐ #5

§ 3. **OFFEROR** agrees that this Quote, including all alternates, if any, may not be revoked or withdrawn after the opening of quotes, and shall remain open for acceptance for a period of 60 Days following the Quote Date, or for such longer period of time that **OFFEROR** may agree to in writing upon request of the Agency.

§ 4. **OFFEROR** agrees that the Date of Commencement of the Work shall be established in a Notice to Proceed to be issued by the Agency. Offeror agrees to substantially complete the Work within _____ Calendar Days from the Date of Commencement, subject to adjustments as provided in the Contract Documents.

§ 5. **OFFEROR** agrees that from the compensation to be paid, the Agency shall retain as Liquidated Damages the amount of \$ _____ for each calendar day the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted Contract Time for Substantial Completion, as provided in the Contract Documents.

§ 6. **OFFEROR** herewith submits its offer to provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fee, permits, licenses and applicable taxes necessary to complete the following items of construction work:

§ 6.1 BASE QUOTE \$ _____
(enter BASE QUOTE in figures only)

§ 6.1.1 ALTERNATE NO. 1 \$ _____ to be ADDED / DEDUCTED from BASE QUOTE.
(circle one)

§ 6.1.2 ALTERNATE NO. 2 \$ _____ to be ADDED / DEDUCTED from BASE QUOTE.
(circle one)

SC Contractor's License Number: _____

Classification(s) & Limits: _____

Address: _____

Telephone: _____

E-mail: _____

This Quote is hereby submitted on behalf of the Offeror named above.

BY: _____
(Signature of Offeror's Representative)

(Print or Type Name of Offeror's Representative)

TITLE: _____

DATE: _____

SE-377**MINOR CONSTRUCTION CONTRACT****AGENCY:** SC Department of Mental Health**PROJECT NAME:** Crafts Farrow State Hospital Building 15 Demolition**PROJECT NUMBER:** J12-9832-PG

THIS AGREEMENT is made this the ____ day of ____ in the year Two Thousand ____ by and between

NAME: _____**ADDRESS:** _____

hereinafter called the "Agency", and

NAME: _____**ADDRESS:** _____

hereinafter called the "Contractor."

WHEREAS, the Agency solicited for construction services, for the work description below:

WORK DESCRIPTION: _____

WHEREAS, Contractor submitted the lowest responsive and responsible quote to provide the services described above.

NOWHEREFORE, in consideration of the mutual covenants and obligations set forth herein, the Agency and Contractor (hereinafter jointly referred to as the "parties") agree as follows:

1. CONTRACT TERMS AND EXTENSIONS:

- 1.1** The effective date of this agreement shall be the date at the top of this page. The Date of Commencement of the Work shall be ____, 20____. The Contract Time is established as ____ calendar days and shall be measured from the Date of Commencement.
- 1.2** The Contractor agrees that the Agency shall be entitled to withhold or recover from the Contractor Liquidated Damages in the amount of ____ for each Calendar Day the Contractor fails to achieve Substantial Completion of the Work within the Contract Time specified or adjusted as provided in the Contract Documents.
- 1.3** The Agency shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be ____, subject to additions and deductions as provided in the Contract documents.
- 1.4** The Construction project is subject to the expenditure limits set forth in SC Code § 11-35-1550 and further explained in the Manual for Planning and Execution of State Permanent Improvements, (the "Manual"). The cost for the original scope of the Contract combined with any modification to the Contract purporting to exceed the limit of \$100,000 is null and void.

2. CONTRACT DOCUMENTS:

- 2.1** Documents forming a part of the contract are:
 - 2.1.1** This Minor Construction Contract (SE-377);

2.1.2 Agency purchase requisition form dated ____; and any modifications issued by the Agency pursuant to this Contract,

2.1.3 The following other documents:

Project Drawings & Specifications dated ____

- 2.2** The Contract is the entire and integrated agreement between the parties and supersedes prior negotiations, representations, or agreements, whether written or oral.
- 2.3** The Contract can only be modified by written agreement signed by both the Agency and the Contractor. The Contract Documents do not create a contractual relationship between the Contractor and any separate Contractor having a contract with the Agency; between the Agency and any subcontractor to the Contractor of any tier; or between any persons or entities other than the Agency and the Contractor.
- 2.4** The “Work” means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor’s obligations. The Work may constitute the whole or a part of the Project.
- 2.5** The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.
- 2.6** The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.
- 2.7** Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.
- 2.7.1** The Contractor acknowledges that it has investigated and satisfied itself as to the general and local conditions which can affect the work or its cost, including but not limited to (a) conditions bearing upon transportation, disposal, handling, and storage of materials; (b) the availability of labor, water, electric power, and roads; (c) uncertainties of weather, river stages, tides, or similar physical conditions at the site; (d) the conformation and conditions of the ground; and (e) the character of equipment and facilities needed preliminary to and during work performance.
- 2.7.2** The Contractor also acknowledges that it has satisfied itself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory work done by the Agency, as well as from the drawings and specifications made a part of this contract.
- 2.7.3** Any failure of the Contractor to take the actions described and acknowledged in this Section will not relieve the Contractor from responsibility for estimating properly the difficulty and cost of successfully performing the work, or for proceeding to successfully perform the work without additional expense to the Agency.
- 2.7.4** The Contractor acknowledges that it may be required to accept payment by electronic funds transfer (EFT).

3. AGENCY

- 3.1** The term “Agency” means the Agency or the Agency’s Representative. Agency designates the individual listed below as its Representative, which individual has the authority and responsibility to bind the Agency with respect to all matters regarding the Contract and requiring the Agency’s approval or authorization:

NAME: _____

TITLE: _____

ADDRESS: _____

TELEPHONE: _____ **EMAIL:** _____

- 3.2** The Agency shall furnish, with reasonable promptness, information requested by the Contractor that is necessary for the performance of the Contract Services and under the Agency’s control. Any information or documentation provided by the Agency to the Contractor relating to the Project or Site is provided only for the convenience of the Contractor. The Agency makes no representation or warranty to as to the sufficiency, completeness, or accuracy of such information.

3.3 Utility Access and Use:

☐ If this box is checked, the Agency shall allow the Contractor to use reasonable quantities of water and electricity for construction purposes without charge, as long as these utilities are available and in close proximity to the Work area. Contractor shall be conscientious in controlling excessive or frivolous use of the utilities or the Agency may charge the Contractor for wasteful usage.

3.4 Sanitary Facilities:

☐ The Contractor may use those sanitary facilities designated by the Agency as available for use.

☐ The Contractor may not use the Agency's sanitary facilities. The Contractor shall provide sanitary facilities at the job site and maintain same in a clean and sanitary condition for the use of its employees and employees of its subcontractors for the duration of construction. The sanitary facilities shall conform to the requirements of the South Carolina Department of Health and Environmental Control.

3.5 Permits, Assessments, and Easements: The Agency shall secure and pay for all building permits, zoning permits, assessments, and easements except as required by the terms of the Contract.**3.6 Agency's Architect-Engineer (A/E):** The Agency may retain an independent A/E to prepare design documents for the work. In such event, the A/E will be a representative of the Agency during the performance of such work through final completion of such work. In the absence of an independent A/E, the Agency will assign one of its employees to act as A/E for the work. The Contractor shall cooperate with the A/E in the performance of its duties.**3.7 Construction by Agency:** The Agency may do work with its own forces or award separate contracts for work on the same project. The Contractor shall allow access to the site by the Agency's work force or separate Contractor(s) and shall cooperate in coordinating the progress of the work with the Agency. The Agency shall have the responsibility to coordinate the activities of the various Contractors working at the project location.**4. CONTRACTOR****4.1** The term "Contractor" means the Contractor or the Contractor's Representative. Contractor designates the individual listed below as its Contractor's Representative, which individual has the authority and responsibility to bind the Contractor with respect to all matters regarding the Contract and requiring the Contractor's approval or authorization:

NAME: _____

TITLE: _____

ADDRESS: _____

TELEPHONE: _____ **EMAIL:** _____

4.2 Supervision and Performance of the Work: The Contractor shall supervise, perform, and direct the Work, using the professional skill, care, and attention reasonably required for similar projects. The Contractor shall be solely responsible for and have control over means, methods, techniques, sequences, and procedures and for coordinating the Work, unless the Contract Documents give other specific instructions concerning these matters. The Contractor agrees to faithfully and fully perform the terms of this Contract and shall complete the Work in accordance with the Contract Documents and deliver the Work to the Agency free and clear of all liens and claims. The Contractor shall, at all times during the progress of the Work, employ enough skilled workers and have on hand and maintain an adequate supply of materials and equipment to complete the Work in accordance with the agreed to construction schedules.**4.3 Employee Discipline:** The Contractor shall enforce discipline and good order among the Contractor's and subcontractors' employees, and other persons carrying out the Work. Contractor shall be responsible to the Agency for acts and omissions of the Contractor's employees, subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.**4.4 Safety:** The Contractor shall comply with all federal and state work site safety requirements and shall be responsible for initiating, maintaining, and supervising reasonable safety precautions and programs in connection with the performance of the Contract Services. The Contractor shall take reasonable precautions for safety of, and shall provide reasonable and appropriate protection to prevent damage, injury or loss to (1) employees on the Work and other persons who may be affected thereby; (2) the Work and materials and equipment to be incorporated therein; and (3) other property at the site of the Work or adjacent thereto.**4.5 Waste Materials and Rubbish:** The Contractor shall keep the premises and surrounding areas free from accumulation of waste materials or rubbish caused by the Work. Upon Final Acceptance of the Work, the Contractor shall, to the Agency's satisfaction, remove from and about the site, all waste materials, rubbish, surplus material, and Contractor's tools, equipment, machinery.

- 4.6** Recycling: The Contractor shall give preference to the use of products containing recycled content in the performance of the Work. The Contractor shall cooperate with any recycling program established for the site of the work or available through the state or a political subdivision of the state.
- 4.7** Access to the Work: The Contractor shall provide the Agency with unrestricted access to the Work in preparation and progress wherever located.
- 4.8** Use of Site: The Contractor shall confine its operations to the portions of the site identified in the Drawings or otherwise approved by the Agency and shall not unreasonably encumber the portions of the site used for the Work with materials, equipment, or similar items. The Contractor and all subcontractors shall use only such entrances to the Site as are designated by the Agency. During occupied hours, Contractor shall limit construction operations to methods and procedures that do not adversely affect the environment of occupied spaces within the site, including but not limited to creating noise, odors, air pollution, ambient discomfort, or poor lighting.
- 4.9** Correction of the Work:
- 4.9.1** The Agency shall have the right and authority to reject Work that does not conform to the Contract Documents. The Contractor shall promptly correct Work rejected by the Agency for failing to conform to the requirements of the Contract Documents, whether or not fabricated, installed or completed. The provisions of this Section apply to Work done by subcontractors as well as to Work done by direct employees of the Contractor.
- 4.9.2** If the Contractor fails to correct the Work, or any portion thereof, that is not in accordance with the requirements of the Contract Documents or fails to carry out Work or provide information in accordance with the Contract Documents, the Agency may make written demand upon the Contractor to cure its defaults within seven days. Within seven days after receipt of the Agency's demand, the Contractor shall cure its defaults unless the default is such that it is not capable of cure within seven days. If the default is such that it is not capable of cure within seven days, the Contractor shall reach an agreement with the Agency on a plan to cure its defaults within five days after receipt of the Agency's demand. The Contractor shall commence and diligently and continuously pursue the cure of such defaults in accordance with the agreed plan. If the Contractor fails to cure its defaults as heretofore provided, the Agency may order the Contractor, in writing, to stop the Work, or any portion thereof, until the Contractor has eliminated the cause for such order or has provided the Agency with a plan for corrective action acceptable to the Agency. The right of the Agency to stop the Work shall not give rise to a duty on the part of the Agency to exercise this right for the benefit of the Contractor or any other person or entity.
- 4.9.3** Correction after Substantial Completion: If, within one year after the date of Substantial Completion of the Work, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Agency to do so. The Contractor's obligation set forth in this Section 4.9.3 is in addition to the Contractor's obligations under Section 4.11.
- 4.9.4** Nothing contained in this Section 4.9 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of such time period as described in this Section 4.9 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.
- 4.10** Manufacturers' Warranties: At Final Completion of the Work, the Contractor shall furnish the Agency two original complete sets of all manufacturers' warranties, guarantees, parts lists, and literature applicable to equipment, systems, fittings, and furnishings included in the Work (collectively referred to as "*Manufacturers' Warranties*"), completed in favor of the Agency. These Manufacturers' Warranties are in addition to and not in lieu of the Contractor's warranty set forth in Section 4.11, and the Agency is entitled to look to the Contractor for remedy in all cases where the Contractor's warranty applies regardless of whether a Manufacturer's Warranty also applies. The Agency shall acknowledge receipt of the sets of Manufacturers' Warranties on the set itself, and the Contractor shall cause six (6) copies of an acknowledged set to be made and furnished to the Agency. All Manufacturers' Warranties will be for applicable periods and contain terms not less favorable to the Agency than those terms that are standard for the applicable industries and will either be issued in the first instance in the name of and for benefit of the Agency or be in a freely assignable form and be assigned to the Agency without limitations.

- 4.11 Contractor Warranty:** The Contractor warrants to the Agency that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from faults and defects not inherent in the quality required or permitted, that the materials, equipment and Work will conform with the requirements of the Contract Documents, and that the Work will be free from any encumbrances, liens, security interests, or other defects in title upon conveyance of title to the Agency. The Contractor's warranty excludes remedy for damage or defect to the extent caused by (i) abuse by anyone other than the Contractor or those for whose acts the Contractor is responsible, (ii) modifications not approved or executed by the Contractor or subcontractors, (iii) improper or insufficient maintenance or operation not the fault of the Contractor or those for whose acts the Contractor is responsible, or (iv) normal wear and tear under normal usage. If required by the Agency, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment and the recommended maintenance thereto to meet the requirements of this Section.
- 4.12** After completion of the Work but no later than the date of Substantial Completion, the Contractor shall submit operation and maintenance manuals, recommended spare parts lists, and copies of all warranties to the Agency. As-Built drawings shall be submitted no later than the Final Completion Date.
- 4.13 Compliance with Law:**
- 4.13.1** The Contractor shall comply with and give all notices required by federal, state, county, and municipal laws, ordinances, regulations, and orders bearing on the performance by the Contractor of the duties or responsibilities under this Contract.
- 4.13.2** The Contractor shall promptly remedy any violation of any such law, ordinance, rule, regulation, or order that comes to its attention to the extent that the same results from its performance of the Work. The Contractor shall promptly, and in no event later than the close of the next business day following receipt, give notice to the Agency by telephone, with confirmation in writing, of receipt by the Contractor of any information relating to violations of laws, ordinances, rules, regulations, and orders.
- 4.14 Subcontractors:**
- 4.14.1** The Contractor shall furnish in writing to the Agency for its approval the names of the subcontractors to whom the Contractor plans to award any portion of the Contract Services.
- 4.14.2** Contracts between the Contractor and subcontractors shall require each subcontractor, to the extent of the Contract Services to be performed by the subcontractor, to be bound to the Contractor by the terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities which the Contractor, by the Contract Documents, assumes toward the Agency.
- 4.14.3** The Contractor shall be responsible to the Agency for acts and omissions of the subcontractors, their agents and employees, and any other persons performing portions of the Contract Services, to the same extent as the acts or omissions of the Contractor hereunder.
- 4.15** **Publicity:** Contractor shall not publish any comments or quotes by State employees or include the State in either news releases or a published list of agencies, without the prior written approval of the Agency.
- 4.16 Indemnification**
- 4.16.1** To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Agency and the Agency's agents and employees from and against claims, damages, losses and expenses, including, but not limited to, reasonable attorney's fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), including loss of use resulting therefrom, but only to the extent caused by negligent acts or omissions of the Contractor, a subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder.
- 4.16.2** In claims against any person or entity indemnified under Section 4.16.1 by an employee of the Contractor, a subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this Section 4.16 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for Contractor or a subcontractor under workers' or workmen's compensation acts, disability benefit acts, or other employee benefit acts.

4.17 Shop Drawings and Samples:

4.17.1 Contractor shall prepare or cause to be prepared shop drawings for fabricated items. Shop drawings shall consist of drawings, diagrams, illustrations, schedules, brochures, and other data which are prepared by the Contractor, sub-Contractor, manufacturer, supplier, or distributor and depict that portion of the work. Shop drawings shall be submitted, reviewed, and approved by the Contractor prior to submitting to the Agency and A/E. Shop drawings approved by the Contractor shall bear a stamp denoting that they have been review and are “approved” or “approved as noted” or similar designation. Contractor shall submit the number of sets as specified in the plans or specifications or in the absence of a specification submit enough copies for the Agency to retain two copies plus the number desired to be returned to the Contractor. The Agency and A/E will review the shop drawings with reasonable promptness but only for conformity with the design.

4.17.2 Contractor shall submit samples as required by the Drawings and Specifications. Samples are physical examples furnished by the Contractor of sufficient size and quantity to provide a good representation of the material proposed to be installed. Samples submitted will not be returned unless requested by Contractor and agreed to by the A/E. The Contractor shall pay shipping costs. The final installed product shall match the approved sample.

4.18 Inspection and Testing of Materials:

4.18.1 The Contractor shall leave uncovered all areas of work that will be covered that are called out in the construction documents to be left uncovered, or the Agency or A/E requests to be left uncovered prior to being inspected. The Contractor shall give adequate notice to the Agency and A/E of the time requested for an inspection of areas to be covered.

4.18.2 If the Contractor covers areas that were to be left uncovered, the Contractor shall cause the area to be uncovered for inspection. After being inspected, the Contractor shall repair the area with craftsmen skilled in the appropriate trades needed for the repair at no additional cost to the Agency.

4.19 Substitutions:

4.19.1 The Contractor shall submit proposed substitutions to the Agency for the Agency’s approval prior to execution of the Work.

4.19.2 Reference in the Contract Documents to a designated material, product, thing, or service by specific brand or trade name followed by the words “or equal” and “or approved equal” shall be interpreted as establishing a standard of quality and shall not be construed as limiting competition. The Contractor may use the products of other another manufacturer provided it is an ‘approved equal’ that meets or exceeds the specification for the specified product. The Contractor must submit adequate information about the product to show that the submitted product meets the level of quality as the product specified.

4.19.3 The Contractor shall not substitute any product, article, appliance, equipment, or material that is specified without prior written approval of the Agency.

4.20 Receiving and Storing Materials and Equipment: The Contractor shall have an authorized person or persons to receive all items delivered to the site of the Work and shall properly unload, check for completeness of shipment, and in-transit damage. The Contractor shall properly handle and store materials, supplies, equipment etc. in accordance with the Contract documents or manufacturer’s printed instructions for each product.

4.21 Schedule and Reports: Promptly after the award of the Contract, the Contractor shall present a construction schedule in a form satisfactory to the Agency. The schedule shall not exceed the time limits current under the Contract Documents. The Contractor shall update the schedule at appropriate intervals as required by the conditions of the Work, showing the actual progress of the Work and adjustment in completion dates. If the Work falls behind schedule, the Contractor shall present a plan for completion of the Work by the scheduled date for completion.

4.22 Time for Completion:

4.22.1 If the Contractor is delayed at any time in the commencement or progress of the Work, the Contractor shall make a request for extension of time within seven days of the event giving rise to the request. The Contractor shall adequately document delays of the work that are due to circumstances beyond the control of the Contractor and shall submit the documentation to the Agency with a request for an extension. In the event of ongoing delay, the Contractor shall notify the Agency in its request for an extension of time that the cause of delay is ongoing. In such case, the Contractor shall supplement its request when the cause of delay ends or the project is completed, whichever is sooner.

4.22.2 The Agency will review each request for time extension and equitably adjust the time for completion where (1) the event of delay actually impacted the critical path of the project and was beyond the control of the Contractor, and (2) completion of the Work was actually delayed.

5. INSURANCE AND BONDS

5.1 Commercial General Liability, Business Automobile Liability, and Worker's Compensation: The Contractor shall purchase from and maintain, in a company or companies lawfully authorized to do business in South Carolina, such insurance as will protect Contractor from claims set forth below, which may arise out of or result from Contractor's operations and completed operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

- a. claims under workers' compensation, disability benefit and other similar employee benefit acts which are applicable to the Work to be performed.
- b. claims for damages because of bodily injury, occupational sickness or disease, or death of the Contractor's employees.
- c. claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's employees.
- d. claims for damages insured by usual personal injury liability coverage.
- e. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom.
- f. claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle.
- g. claims for bodily injury or property damage arising out of completed operations; and
- h. claims involving contractual liability insurance applicable to the Contractor's obligations under Section 3.17, Indemnification.

5.1.1 The insurance required by Section 5.1 shall be written for not less than the limits of liability specified below or required by law, whichever is greater. Coverage shall be written on an occurrence basis and shall be maintained without interruption from the date of commencement of the Work until date of final payment and termination of any coverage required to be maintained after final payment and, with respect to the Contractor's completed operations coverage, until the expiration of the period for correction of Work set forth in Section 4.9 or for such other period for maintenance of completed operations coverage as specified in the Contract Documents.

a. COMMERCIAL GENERAL LIABILITY:

(1) General Aggregate (per project).....	\$1,000,000
(2) Products/Completed Operations.....	\$1,000,000
(3) Personal and Advertising Injury.....	\$1,000,000
(4) Each Occurrence	\$1,000,000
(5) Fire Damage (Any one fire)	\$50,000
(6) Medical Expense (Any one person)	\$5,000

b. BUSINESS AUTO LIABILITY (including All Owned, Non-owned, and Hired Vehicles):

(1) Combined Single Limit	\$1,000,000 OR
(2) Bodily Injury & Property Damage (each)	\$750,000

c. WORKER'S COMPENSATION:

(1) State Statutory	
(2) Employers Liability	\$100,000 per Acc.
	\$500,000 Disease, Policy Limit
	\$100,000 Disease, Each Employee

In lieu of separate insurance policies for Commercial General Liability, Business Auto Liability, and Employers Liability, the Contractor may provide an umbrella policy meeting or exceeding all coverage requirements set forth in this Section 5.1. The umbrella policy limits shall not be less than \$5,000,000.

5.1.2 Prior to commencement of the Work, and thereafter upon replacement of each required policy of insurance, Contractor shall provide to the Agency a written endorsement to the Contractor's general liability insurance policy that:

- a. names the Agency as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations;

- b. provides that no material alteration, cancellation, non-renewal, or expiration of the coverage contained in such policy shall have effect unless all additional insured have been given at least ten (10) days prior written notice of cancellation for non-payment of premiums and thirty (30) days prior written notice of cancellation for any other reason; and
- c. provides that the Contractor's liability insurance policy shall be primary, with any liability insurance of the Agency as secondary and noncontributory.

5.1.3 Before commencement of the Work, and thereafter upon renewal or replacement of each required policy of insurance, Contractor shall provide to the Agency a signed, original certificate of liability insurance (ACORD 25). Consistent with this Section 5.1, the certificate shall identify the types of insurance, state the limits of liability for each type of coverage, name the Agency as Certificate Holder, provide that the general aggregate limit applies per project, and provide that coverage is written on an occurrence basis. Both the certificates and the endorsements must be received directly from either the Contractor's insurance agent or the insurance company. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, naming the Agency as an additional insured for claims made under the Contractor's completed operations, and otherwise meeting the above requirements, shall be submitted with the Contractor's final request for payment for the Work and thereafter upon renewal or replacement of such coverage until the expiration of the time required by Section 5.1. Information concerning reduction of coverage on account of revised limits or claims paid under the General Aggregate, or both, shall be furnished by the Contractor with reasonable promptness.

5.1.4 A failure by the Agency either (i) to demand a certificate of insurance or written endorsement required by Section 5.1, or (ii) to reject a certificate or endorsement on the grounds that it fails to comply with Section 5.1, shall not be considered a waiver of Contractor's obligations to obtain the required insurance.

5.2 Property Insurance:

☐ If this box is checked, Contractor shall provide the following:

5.2.1 Builder's Risk Insurance: Contractor shall purchase property insurance written on a builder's risk "all risk" or equivalent policy form on a replacement cost basis. Contractor shall maintain such property insurance until the Agency has made final payment for the Work or until no person or entity other than the Agency has an insurable interest in the property required by this Section 5.2 to be covered, whichever is later. This insurance shall include and be in an amount sufficient to cover at all times during the performance of the Work, the interests of the Contractor, Subcontractors and Sub-subcontractors in the Project. The property insurance shall include, without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, false work, testing and startup, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's and Contractor's services and expenses required as a result of such insured loss.

5.2.2 Equipment Breakdown Insurance: In the event the Contractor installs and runs and/or operates (whether for testing or other purposes) heating, air conditioning, and electrical machinery and equipment, the Contractor shall purchase and maintain equipment breakdown (boiler and machinery) insurance, which shall specifically cover such objects during installation and until final acceptance by the Agency. This insurance shall include interests of the Agency, Contractor, and subcontractors at any tier in the Work, and the Agency and Contractor shall both be named insured.

5.2.3 Before an exposure to loss may occur, the Contractor shall file with the Agency a copy of each policy that includes insurance coverage required by this Section 5.2. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project.

5.2.4 Waiver of Subrogation: The Agency and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, for damages caused by fire or other causes of loss to the extent the property insurance provided by the Contractor pursuant to this Section 5.2 covers and pays for the damage, except such rights as they have to proceeds of such insurance held by the Contractor. The Agency or Contractor, as appropriate, shall require of the subcontractors, sub-subcontractors, agents and employees, each of the other, by appropriate written agreements, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

5.3 Performance and Payment Bonds:

☐ If this box is checked, prior to beginning work, the Contractor shall deliver to the Agency a Performance Bond and a Labor & Material Payment Bond. Each bond shall be in the amount of 100% of the Contract Sum. The Contractor's Performance Bond shall be in the form of the SE-355, Performance Bond, and the Labor & Material Payment Bond shall be in the form of the SE-357, Labor & Material Payment Bond. The surety company providing the Bonds shall have, at a minimum, a "Best Rating" of "A" as stated in the most current publication of "Best's Key Rating Guide, Property - Casualty." Contractor's failure to provide bonds as herein required shall be an event of default justifying the Agency, in its sole discretion, in terminating this Contract for cause.

6. CONTRACT ADMINISTRATION**6.1 Changes in the Work:**

6.1.1 Any changes in the work must be approved by the Agency and executed by a modification to the Agency purchase requisition form. The modification must be signed by the Contractor and Agency.

6.1.2 At the Agency's request, the Contractor shall prepare a proposal to perform the work of a proposed modification setting forth the amount of the proposed adjustment, if any, in the Contract Sum; and the extent of the proposed adjustment, if any, in the Contract Time. The Agency's request shall include any revisions to the Drawings or Specifications necessary to define the changes in the Work. Within fifteen days of receiving the request, the Contractor shall submit the proposal to the Agency and Architect along with all substantiating documentation.

6.1.3 In the absence of a total agreement concerning the item(s) for a contract modification, a Construction Change Directive shall be used.

6.1.4 Agreed Overhead and Profit Rates:

For any adjustment to the Contract Sum for which overhead and profit may be recovered, the combined overhead and profit included in the total cost to the Owner for a change in the Work shall be based on the following schedule:

- a. For the Contractor, for Work performed by the Contractor's own forces, not to exceed seventeen (17%) percent of the Contractor's actual costs.
- b. For the Contractor, for Work performed by the Contractor's Subcontractors, not to exceed ten (10%) percent of each Subcontractor's actual costs (not including the Subcontractor's overhead and profit.)
- c. For each Subcontractor involved, for Work performed by that Subcontractor's own forces, not to exceed seventeen (17%) percent of the Subcontractor's actual costs.

The percentages cited above shall be considered to include all indirect costs including, but not limited to, field and office managers, supervisors and assistants, incidental job burdens, small tools, and general overhead allocations.

6.2 Payments:

6.2.1 Contractor may submit monthly applications for payment for the Work scheduled to last two months or more in duration. Contractor shall submit only one application for payment for the Work scheduled to last less than two months in duration.

6.2.2 If the Contractor intends to submit more than one application for payment, the Contractor shall submit to the A/E, within ten days of Contract award, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the A/E may require. This schedule, unless objected to by the A/E, shall be used as a basis for reviewing the Contractor's Applications for Payment. Contractor shall base its monthly applications for payment on work completed up to the date of the application using the approved schedule of values. The sum of all payments to the Contractor shall not exceed the agreed upon cost of the work set forth in the Minor Construction Contract as adjusted by subsequent modifications to the Contract, if any.

6.2.3 Contractor's applications for payment may include materials suitably stored on site for use in the Work provided the Contractor submits:

- a. Proof of purchase & delivery;
- b. Documentation showing the location of the material;
- c. Certificate of insurance for the material with adequate coverage showing the Agency as the certificate holder.

- 6.2.4** The Agency will make payments to the Contractor for completed work based on the actual units or quantity of work completed. The Agency will make payments on the undisputed amounts of an application for payment within 21 days of receipt of the application.
- 6.2.5** Subcontractor Payments (Chapter 6 of Title 29 of the South Carolina Code of Laws, as amended): The Contractor shall pay each subcontractor no later than seven (7) days after receipt of payment from the Agency the amount to which the subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the subcontractor's portion of the Work. By appropriate agreement with its subcontractors, the Contractor shall require each subcontractor to make payments to Sub-subcontractors in a similar manner.
- 6.2.6** If the Agency does not pay the Contractor within seven (7) days after the time established in Section 6.2.4 the undisputed amount of a payment request, then upon seven (7) additional days written notice to the Agency, the Contractor may stop the Work until the Contractor has received payment of the undisputed amount owing. The Contract Time and the Contract Sum shall be equitably adjusted by the amount of the Contractor's reasonable costs of shut down, delay and start-up, plus interest as provided for in the Contract Documents.
- 6.2.7** Retainage: The Agency, at its option, may withhold retainage as provided in SC Code § 11-35-3030(4).
- 6.2.8** Final Payment: Upon final payment by the Agency to the Contractor for the Work, all rights, title, and interest in and to all improvements and equipment constructed or installed on the premises shall vest in the Agency at no additional cost, free and clear of all any liens and encumbrances created or caused by the Contractor.
- 6.2.9** Withholding of Payments: Payments may be withheld to the extent of, and on account of:
- a. defective Work not remedied, or Work not performed in accordance with the Contract Documents;
 - b. claims filed by third parties;
 - c. failure of the Contractor to make payments promptly to the subcontractors for labor, materials, or equipment;
 - d. persistent failure to carry perform the Work in accordance with the Contract Documents;
 - e. failure by the Contractor to perform its obligations under the Contract Documents; or
 - f. a default by the Contractor under the Contract Documents.

The Agency shall promptly notify the Contractor of any reason for withholding payment.

- 6.3** Completion and Closeout: Upon Final Completion of all Work, the Contractor shall notify the Agency of its completion. The Agency shall schedule a Final Inspection and allow the Contractor to demonstrate that all equipment and systems operate as designed. The Agency may elect to have other persons, firms or agencies participate in the inspections. Projects exceeding the Agency's construction procurement certification level shall require an inspection by the Office of State Engineer (OSE) and the State Engineer's issuance of a Certificate of Occupancy. (The Contractor may find Agency construction certification limits on Procurement Services website at <https://procurement.sc.gov/agency/audits/cert-limits>) Final payment will not be due nor retained funds released until:
- a. the Agency agrees that the project is complete;
 - b. OSE or the Agency, which ever has authority, issues a Certificate of Occupancy (SE-585); and
 - c. the Agency receives from the Contractor the following:
 - (1) Affidavit of payment of debts and claims;
 - (2) Consent of Surety, if any, to final payment.

7. DISPUTE RESOLUTION

- 7.1** Both parties shall attempt to resolve disputes through good faith negotiations.
- 7.2** All disputes, claims, or controversies relating to the Contract, that cannot be resolved through good faith negotiations between the parties shall be resolved exclusively by the appropriate Chief Procurement Officer in accordance with Title 11, Chapter 35, Article 17 of the South Carolina Code of Laws, or in the absence of jurisdiction, only in the Court of Common Pleas for, or a federal court located in, Richland County, State of South Carolina. Contractor agrees that any act by the State regarding the Contract is not a waiver of either the State's sovereign immunity or the State's immunity under the Eleventh Amendment of the United States Constitution. As used herein, "the State" includes the Agency and the State Fiscal Accountability Authority.
- 7.3** Interest: Payments due to the Contractor and unpaid under the Contract Documents shall bear interest only if and to the extent allowed by Title 29, Chapter 6, Article 1 of the South Carolina Code of Laws. Amounts due to the Agency shall bear interest at the rate of one percent a month or a pro rata fraction thereof on the unpaid balance as may be due.

- 7.4** Contractor consents that any papers, notices, or process necessary or proper for the initiation or continuation of any claims or controversies relating to the Contract; for any court action in connection therewith; or for the entry of judgment on any award made, may be served on Contractor by certified mail (return receipt requested) addressed to Contractor at the address provided for the Contractor's Representative or by personal service or by any other manner that is permitted by law, in or outside South Carolina. Notice by certified mail is deemed duly given upon deposit in the United States mail.
- 7.5** Continuation of Work: Pending final resolution of any dispute under this Contract, the Contractor will proceed diligently with the performance of its duties and obligations under the Contract Documents, and the Agency will continue to make payments of undisputed amounts in accordance with the Contract Documents.

8. LIMITATION OF LIABILITY

- 8.1** Notwithstanding any other provision of the Contract Documents, but subject to a duty of good faith and fair dealing, the Contractor and Agency waive Claims against each other for listed damages arising out of or relating to this Contract. This mutual waiver includes:
- 8.1.1** For the Agency, listed damages are (i) lost revenue and profit, (ii) losses resulting from injury to business or reputation, (iii) additional or escalated overhead and administration expenses, (iv) additional financing costs, (v) costs suffered by a third party unable to commence work, (vi) reasonable attorney's fees, (vii) any interest, except to the extent allowed by Section 6.3 (Interest), (viii) lost revenue and profit for lost use of the property, (ix) costs resulting from lost productivity or efficiency, and (x) damages incurred by the Agency for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- 8.1.2** For the Contractor, listed damages are (i) lost revenue and profit, (ii) losses resulting from injury to business or reputation, (iii) additional or escalated overhead and administration expenses, (iv) additional financing costs, (v) reasonable attorney's fees, (vi) any interest, except to the extent allowed by Section 6.3 (Interest); (vii) unamortized equipment costs; and (viii) losses incurred by subcontractors for the types of damages the Contractor has waived as against the Agency.
- 8.2** This mutual waiver is applicable, without limitation, to all listed damages due to either party's termination in accordance with Section 11. Nothing contained in this Section 8 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents. This mutual waiver is not applicable to amounts due or obligations under Section 4.16 (Indemnification).

9. HAZARDOUS MATERIALS

- 9.1** Contractor's Responsibilities with Respect to Hazardous Materials:
- 9.1.1** The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance which was not discoverable as provided in Section 2.7 and not addressed in the Contract Documents, and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons or serious loss to real or personal property resulting from such a material or substance encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Agency of the condition. Hazardous materials or substances are those hazardous, toxic, or radioactive materials or substances subject to regulations by applicable governmental authorities having jurisdiction, such as, but not limited to, the S.C. Department of Health and Environmental Control, the U.S. Environmental Protection Agency, and the U.S. Nuclear Regulatory Commission.
- 9.1.2** Upon receipt of the Contractor's notice, the Agency shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Agency and Contractor. By Change Order, the Contract Time shall be extended appropriately, and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.
- 9.2** Hazardous Materials Introduced to the Site by Contractor: If the Contractor, its subcontractors, and any party for whom they may be liable, introduces any Hazardous Materials to the Site then the Contractor, at its sole cost and expense, shall be responsible for any response, removal, cleanup, and/or other remedial action required by applicable law. If any Mold occurs within the Site as the result of the negligent implementation of the Project or the improper functioning of the Conservation Measures, then the Contractor, at its sole cost and expense, shall be responsible for any response, removal, cleanup, or other remedial action required by applicable law. Except as to the Contractor's initial response to an emergency, any such remedial action(s) shall require the prior review and approval of the Agency.

10. MISCELLANEOUS PROVISIONS

- 10.1** Governing Law: This Contract shall be governed by the laws of South Carolina, except its choice of law rules.
- 10.2** Severability: If any provision of this Contract shall be held to be invalid, illegal, or unenforceable, the validity, legality and enforceability of the remaining provisions shall not be affected or impaired thereby.
- 10.3** No Waiver: No course of dealing or failure of the Agency and/or the Contractor to enforce strictly any term, right or condition of this Contract shall be construed as a waiver of such term, right or condition. No express waiver of any term, right, or condition of this Contract shall operate as a waiver of any other term, right, or condition.
- 10.4** Rights Cumulative: Except as otherwise provided in this Contract, (i) rights and remedies available to the Agency and/or the Contractor as set forth in this Contract shall be cumulative with and in addition to, and not in limitation of, any other rights or remedies available to the Parties at law and/or in equity, and (ii) any specific right or remedy conferred upon or reserved to the Agency and/or the Contractor in any provision of this Contract shall not preclude the concurrent or consecutive exercise of a right or remedy provided for in any other provision hereof.
- 10.5** Notices: Any notices required to be given under this Contract shall be in writing and shall be delivered either by (i) certified mail, return receipt requested, in which case notice shall be deemed delivered three (3) business days after deposit, postage prepaid, in the U.S. mail; (ii) a reputable messenger service or a nationally recognized overnight courier, in which case notice shall be deemed delivered one (1) business day after deposit with such messenger or courier; or (iii) personal delivery with receipt acknowledged in writing, in which case notice shall be deemed delivered when received. All notices shall be sent to the representatives identified in the Part G of the Agreement at the addresses provided therein. The foregoing addresses may be changed from time to time by notice to the other Party in the manner herein provided for.
- 10.6** Economic Conflict of Interest: A Contractor shall not have or exercise any official responsibility regarding a public contract in which the Contractor, or a business with which he is associated, has an economic interest. A person working for Contractor shall not have or exercise any official responsibility regarding a public contract in which the person, an individual with whom he is associated, or his family members have an economic interest. If Contractor is asked by any person to violate, or does violate, either of these restrictions, Contractor shall immediately communicate such information to the Agency Representative. The State may rescind, and recover any amount expended as a result of, any action taken, or contract entered in violation of this provision. The terms “business with which he is associated,” “economic interest,” “family member,” “immediate family,” “individual with whom he is associated,” “official responsibility” and “person” have the meanings provided in SC Code § 8-13-100.
- 10.7** Illegal Immigration: Contractor certifies and agrees that it will comply with the applicable requirements of Title 8, Chapter 14 of the South Carolina Code of Laws and agrees to provide to the State upon request any documentation required to establish either: (a) that Title 8, Chapter 14 is inapplicable both to Contractor and its subcontractors or sub-subcontractors; or (b) that Contractor and its subcontractors or sub-subcontractors are in compliance with Title 8, Chapter 14. Pursuant to SC Code § 8-14-60, “A person who knowingly makes or files any false, fictitious, or fraudulent document, statement, or report pursuant to this chapter is guilty of a felony and, upon conviction, must be fined within the discretion of the court or imprisoned for not more than five years, or both.” Contractor agrees to include in any contracts with its subcontractors language requiring its subcontractors to (a) comply with the applicable requirements of Title 8, Chapter 14, and (b) include in their contracts with the sub-subcontractors language requiring the sub-subcontractors to comply with the applicable requirements of Title 8, Chapter 14. (An overview is available at www.procurement.sc.gov)
- 10.8** Drug-Free Workplace: The Contractor certifies to the Agency that Contractor will provide a Drug-Free Workplace, as required by Title 44, Chapter 107 of the South Carolina Code of Laws, as amended.
- 10.9** False Claims: According to the SC Code § 16-13-240, “a person who by false pretense or representation obtains the signature of a person to a written instrument or obtains from another person any chattel, money, valuable security, or other property, real or personal, with intent to cheat and defraud a person of that property is guilty” of a crime.
- 10.10** Non-Indemnification: Any term or condition is void to the extent it requires the State to indemnify anyone. It is unlawful for a person charged with disbursements of state funds appropriated by the General Assembly to exceed the amounts and purposes stated in the appropriations (SC Code § 11-9-20). It is unlawful for an authorized public officer to enter into a contract for a purpose in which the sum is in excess of the amount appropriated for that purpose. It is unlawful for an authorized public officer to divert or appropriate the funds arising from any tax levied and collected for any one fiscal year to the payment of an indebtedness contracted or incurred for a previous year. (SC Code § 11-1-40)

- 10.11** Enforcement and Interpretation of Building Codes: As required by SC Code § 10-1-180), OSE shall determine the enforcement and interpretation of all building codes and referenced standards on state buildings. The Contractor shall refer any questions, comments, or directives from local officials to the Agency and OSE for resolution. When the amount of the contract exceeds the construction procurement certification of the Agency, the Contractor shall not commence the Work before receiving a copy of the Building permit issued by OSE. (The Contractor may find Agency construction certification limits on Procurement Services website at <https://procurement.sc.gov/agency/audits/cert-limits>)
- 10.12** Assignment: The Agency and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements and obligations contained in this Contract. Neither party to the Contract shall assign the Contract as a whole, or in part, without written consent of the other and then only in accordance with and as permitted by SC Regulation 19-445.2180. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.
- 10.13** Open Trade: During the Contract term, including any renewals or extensions, Contractor will not engage in the boycott of a person or an entity based in or doing business with a jurisdiction with whom South Carolina can enjoy open trade, as defined in SC Code § 11-35-5300.

11. SUSPENSION OR TERMINATION

- 11.1** Agency Right of Suspension: The Agency may, at any time, suspend the work, in whole or in part, with or without cause for such period of time as determined by the Agency. Except in the event of suspension due to a default of the Contractor, the Contract sum will be equitably adjusted to reflect reasonable costs actually incurred by the Contractor due to delay or interruption resulting from such suspension.
- 11.2** Agency Right of Termination:
- 11.2.1** Termination for Cause: If the Contractor defaults, persistently fails or neglects to perform the Work in accordance with the Contract Documents, or fails to perform a provision of the Contract, the Agency shall provide written notice of such default, failure, or neglect to the Contractor. If the Contractor fails to cure such default, failure, or neglect within fifteen days from receipt of the Agency's notice, the Agency may, without prejudice to any other right or remedy the Agency may have, terminate the Contract and take possession of the area at the Site affected by the Work.
- 11.2.2** Termination for Convenience: The Agency may, for its convenience, terminate all or any portion of the Work, or terminate this entire Contract, by ten (10) days written notice stating the effective date of the termination. Thereafter, the Agency shall pay the Contractor for Work actually performed before the date of termination. No payments shall be made for Work not actually performed, and no payment shall be made or due for lost profits on account of Work not performed.
- 11.3** Contractor Right of Termination:
- 11.3.1** The Contractor may terminate the Contract if work is stopped through no fault of the Contractor, or other persons performing work either directly or indirectly for the Contractor, for a period of time exceeding 60 consecutive calendar days due to a court order or other public authority having jurisdiction; or a Declared National emergency which requires the work to be stopped.
- 11.3.2** Agency Failure to Make Payment: Subject to the Agency's right to withhold payments pursuant to Section 6.2.9, if the Agency fails to make payments to the Contractor as set forth in Section 6.2 and any other applicable provisions of the Contract Documents, the Contractor may, upon thirty (30) days' prior written notice to the Agency, terminate the Contract and recover from the Agency payment for all Work performed and for proven loss with respect to materials, equipment, tools, and machinery, including reasonable overhead, profit and damages applicable to the Work for the Contract Services performed through the date thereof.

AGENCY:

BY: _____
(Signature of Representative)

PRINT NAME: _____

PRINT TITLE: _____

DATE: _____

CONTRACTOR:

BY: _____
(Signature of Representative)

PRINT NAME: _____

PRINT TITLE: _____

DATE: _____

SE-355

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that *(Insert full name or legal title and address of Contractor)*

Name: _____

Address: _____

hereinafter referred to as “Contractor”, and *(Insert full name and address of principal place of business of Surety)*

Name: _____

Address: _____

hereinafter called the “surety”, are jointly and severally held and firmly bound unto *(Insert full name and address of Agency)*

Name: SC Department of Mental Health

Address: 7901 Farrow Rd. Building 4

Columbia, SC 29203

hereinafter referred to as “Agency”, or its successors or assigns, the sum of _____ (\$ _____), being the sum of the Bond to which payment to be well and truly made, the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____ entered into a contract with Agency to construct

State Project Name: Crafts Farrow State Campus Building 15 Demolition

State Project Number: J12-9832-PG

Brief Description of Awarded Work: Demolition and removal of Building 15 on the Crafts Farrow State Campus.

in accordance with Drawings and Specifications prepared by *(Insert full name and address of A/E)*

Name: S&ME

Address: 134 Suber Rd.

Columbia, SC 29210

which agreement is by reference made a part hereof, and is hereinafter referred to as the Contract.

IN WITNESS WHEREOF, Surety and Contractor, intending to be legally bound hereby, subject to the terms stated herein, do each cause this Performance Bond to be duly executed on its behalf by its authorized officer, agent or representative.

DATED this _____ **day of** _____, **2** _____
(shall be no earlier than Date of Contract)

BOND NUMBER _____

CONTRACTOR

By: _____
 (Seal)

Print Name: _____

Print Title: _____

Witness: _____

SURETY

By: _____
 (Seal)

Print Name: _____

Print Title: _____
(Attach Power of Attorney)

Witness: _____

(Additional Signatures, if any, appear on attached page)

SE-355**PERFORMANCE BOND****NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT:**

1. The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Agency for the full and faithful performance of the contract, which is incorporated herein by reference.
2. If the Contractor performs the contract, the Surety and the Contractor have no obligation under this Bond, except to participate in conferences as provided in paragraph 3.1.
3. The Surety's obligation under this Bond shall arise after:
 - 3.1 The Agency has notified the Contractor and the Surety at the address described in paragraph 10 below, that the Agency is considering declaring a Contractor Default and has requested and attempted to arrange a conference with the Contractor and the Surety to be held not later than 15 days after receipt of such notice to discuss methods of performing the Contract. If the Agency, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive the Agency's right, if any, subsequently to declare a Contractor Default; or
 - 3.2 The Agency has declared a Contractor Default and formally terminated the Contractor's right to complete the Contract.
4. The Surety shall, within 15 days after receipt of notice of the Agency's declaration of a Contractor Default, and at the Surety's sole expense, take one of the following actions:
 - 4.1 Arrange for the Contractor, with consent of the Agency, to perform and complete the Contract; or
 - 4.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or
 - 4.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Agency for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by the Agency and the contractor selected with the Agency's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the Bonds issued on the Contract, and pay to the Agency the amount of damages as described in paragraph 7 in excess of the Balance of the Contract Sum incurred by the Agency resulting from the Contractor Default; or
 - 4.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and:
 - 4.4.1 After investigation, determine the amount for which it may be liable to the Agency and, within 60 days of waiving its rights under this paragraph, tender payment thereof to the Agency; or
 - 4.4.2 Deny liability in whole or in part and notify the Agency, citing the reasons therefore.
5. Provided Surety has proceeded under paragraphs 4.1, 4.2, or 4.3, the Agency shall pay the Balance of the Contract Sum to either:
 - 5.1 Surety in accordance with the terms of the Contract; or
 - 5.2 Another contractor selected pursuant to paragraph 4.3 to perform the Contract.
 - 5.3 The balance of the Contract Sum due either the Surety or another contractor shall be reduced by the amount of damages as described in paragraph 7.
6. If the Surety does not proceed as provided in paragraph 4 with reasonable promptness, the Surety shall be deemed to be in default on this Bond 15 days after receipt of written notice from the Agency to the Surety demanding that the Surety perform its obligations under this Bond, and the Agency shall be entitled to enforce any remedy available to the Agency.
 - 6.1 If the Surety proceeds as provided in paragraph 4.4 and the Agency refuses the payment tendered or the Surety has denied liability, in whole or in part, then without further notice the Agency shall be entitled to enforce any remedy available to the Agency.
 - 6.2 Any dispute, suit, action or proceeding arising out of or relating to this Bond shall be governed by the Dispute Resolution process defined in the Contract Documents and the laws of the State of South Carolina.
7. After the Agency has terminated the Contractor's right to complete the Contract, and if the Surety elects to act under paragraph 4.1, 4.2, or 4.3 above, then the responsibilities of the Surety to the Agency shall be those of the Contractor under the Contract, and the responsibilities of the Agency to the Surety shall be those of the Agency under the Contract. To a limit of the amount of this Bond, but subject to commitment by the Agency of the Balance of the Contract Sum to mitigation of costs and damages on the Contract, the Surety is obligated to the Agency without duplication for:
 - 7.1 The responsibilities of the Contractor for correction of defective Work and completion of the Contract; and
 - 7.2 Additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under paragraph 4; and
 - 7.3 Damages awarded pursuant to the Dispute Resolution Provisions of the Contract. Surety may join in any Dispute Resolution proceeding brought under the Contract and shall be bound by the results thereof; and
 - 7.4 Liquidated Damages, or if no Liquidated Damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the Contractor.
8. The Surety shall not be liable to the Agency or others for obligations of the Contractor that are unrelated to the Contract, and the Balance of the Contract Sum shall not be reduced or set-off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Agency or its heirs, executors, administrators, or successors.
9. The Surety hereby waives notice of any change, including changes of time, to the contract or to related subcontracts, purchase orders and other obligations.
10. Notice to the Surety, the Agency or the Contractor shall be mailed or delivered to the address shown on the signature page.
11. Definitions
 - 11.1 Balance of the Contract Sum: The total amount payable by the Agency to the Contractor under the Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts to be received by the Agency in settlement of insurance or other Claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Contract.
 - 11.2 Contractor Default: Failure of the Contractor, which has neither been remedied nor waived, to perform the Contract or otherwise to comply with the terms of the Contract.

SE-357**LABOR & MATERIAL PAYMENT BOND****KNOW ALL MEN BY THESE PRESENTS**, that *(Insert full name or legal title and address of Contractor)*

Name: _____

Address: _____

hereinafter referred to as "Contractor", and *(Insert full name and address of principal place of business of Surety)*

Name: _____

Address: _____

hereinafter called the "surety", are jointly and severally held and firmly bound unto *(Insert full name and address of Agency)*Name: SC Department of Mental HealthAddress: 7901 Farrow Rd. Building 4Columbia, SC 29203

hereinafter referred to as "Agency", or its successors or assigns, the sum of _____ (\$ _____), being the sum of the Bond to which payment to be well and truly made, the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____ entered into a contract with Agency to constructState Project Name: Crafts Farrow State Hospital Building 15 DemolitionState Project Number: J12-9832-PGBrief Description of Awarded Work: Demolition and removal of Building 15 located on the Crafts Farrow Campus.in accordance with Drawings and Specifications prepared by *(Insert full name and address of A/E)*Name: S&MEAddress: 134 Suber Rd.Columbia, SC 29210

which agreement is by reference made a part hereof, and is hereinafter referred to as the Contract.

IN WITNESS WHEREOF, Surety and Contractor, intending to be legally bound hereby, subject to the terms stated herein, do each cause this Labor & Material Payment Bond to be duly executed on its behalf by its authorized officer, agent or representative.

DATED this _____ **day of** _____, **2** _____
(shall be no earlier than Date of Contract)

BOND NUMBER _____**CONTRACTOR**

By: _____
 (Seal)

Print Name: _____**Print Title:** _____**Witness:** _____**SURETY**

By: _____
 (Seal)

Print Name: _____

Print Title: _____
(Attach Power of Attorney)

Witness: _____*(Additional Signatures, if any, appear on attached page)*

SE-357**LABOR & MATERIAL PAYMENT BOND****NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT:**

1. The Contractor and the Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Agency to pay for all labor, materials and equipment required for use in the performance of the Contract, which is incorporated herein by reference.
2. With respect to the Agency, this obligation shall be null and void if the Contractor:
 - 2.1 Promptly makes payment, directly or indirectly, for all sums due Claimants; and
 - 2.2 Defends, indemnifies and holds harmless the Agency from all claims, demands, liens or suits by any person or entity who furnished labor, materials or equipment for use in the performance of the Contract.
3. With respect to Claimants, this obligation shall be null and void if the Contractor promptly makes payment, directly or indirectly, for all sums due.
4. With respect to Claimants, and subject to the provisions of Title 29, Chapter 5 and the provisions of §11-35-3030(2)(c) of the SC Code of Laws, as amended, the Surety's obligation under this Bond shall arise as follows:
 - 4.1 Every person who has furnished labor, material or rental equipment to the Contractor or its subcontractors for the work specified in the Contract, and who has not been paid in full therefore before the expiration of a period of ninety (90) days after the date on which the last of the labor was done or performed by him or material or rental equipment was furnished or supplied by him for which such claim is made, shall have the right to sue on the payment bond for the amount, or the balance thereof, unpaid at the time of institution of such suit and to prosecute such action for the sum or sums justly due him.
 - 4.2 A remote claimant shall have a right of action on the payment bond upon giving written notice by certified or registered mail to the Contractor within ninety (90) days from the date on which such person did or performed the last of the labor or furnished or supplied the last of the material or rental equipment upon which such claim is made.
 - 4.3 Every suit instituted upon a payment bond shall be brought in a court of competent jurisdiction for the county or circuit in which the construction contract was to be performed, but no such suit shall be commenced after the expiration of one year after the day on which the last of the labor was performed or material or rental equipment was supplied by the person bringing suit.
5. When the Claimant has satisfied the conditions of paragraph 4, the Surety shall promptly and at the Surety's expense take the following actions:
 - 5.1 Send an answer to the Claimant, with a copy to the Agency, within sixty (60) days after receipt of the claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed.
 - 5.2 Pay or arrange for payment of any undisputed amounts.
 - 5.3 The Surety's failure to discharge its obligations under this paragraph 5 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a claim. However, if the Surety fails to discharge its obligations under this paragraph 5, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs to recover any sums found to be due and owing to the Claimant.
6. Amounts owed by the Agency to the Contractor under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any Performance Bond. By the Contractor furnishing and the Agency accepting this Bond, they agree that all funds earned by the contractor in the performance of the Contract are dedicated to satisfy obligations of the Contractor and the Surety under this Bond, subject to the Agency's prior right to use the funds for the completion of the Work.
7. The Surety shall not be liable to the Agency, Claimants or others for obligations of the Contractor that are unrelated to the Contract. The Agency shall not be liable for payment of any costs or expenses of any claimant under this bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.
8. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.
9. Notice to the Surety, the Agency or the Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, the Agency or the contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.
10. By the Contractor furnishing and the Agency accepting this Bond, they agree that this Bond has been furnished to comply with the statutory requirements of the South Carolina Code of Laws, as amended, and further, that any provision in this Bond conflicting with said statutory requirements shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.
11. Upon request of any person or entity appearing to be a potential beneficiary of this bond, the Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.
12. Any dispute, suit, action or proceeding arising out of or relating to this Bond shall be governed by the laws of the State of South Carolina.

13. DEFINITIONS

- 13.1 Claimant: An individual or entity having a direct contract with the Contractor or with a Subcontractor of the Contractor to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of the Contractor and the Contractor's Subcontractors, and all other items for which a mechanic's lien might otherwise be asserted.
- 13.2 Remote Claimant: A person having a direct contractual relationship with a subcontractor of the Contractor or subcontractor, but no contractual relationship expressed or implied with the Contractor.
- 13.3 Contract: The agreement between the Agency and the Contractor identified on the signature page, including all Contract Documents and changes thereto.

SE-381

CHANGE ORDER NO.: _____

CHANGE ORDER TO MINOR CONSTRUCTION CONTRACT**AGENCY:** SC Department of Mental Health**PROJECT NAME:** Crafts Farrow State Hospital Building 15 Demolition**PROJECT NUMBER:** J12-9832-PG**CONTRACTOR:** _____**This Contract is changed as follows:** *(Insert description of change in space provided below.)***ADJUSTMENTS IN THE CONTRACT SUM:**

1. Original Contract Sum:		\$
2. Change in Contract Sum by previously approved Change Orders:		
3. Contract Sum prior to this Change Order		\$ 0.00
4. Amount of this Change Order:		
5. New Contract Sum, including this Change Order:		\$ 0.00

ADJUSTMENTS IN THE CONTRACT TIME:

1. Initial Date for Substantial Completion:		
2. Sum of previously approved increases and decreases in Days:		Days
3. Change in Days for this Change Order		Days
4. Total Number of Days added to this Contract including this Change Order	0 Day	s
5. New Date for Substantial Completion:		

AGENCY ACCEPTANCE AND CERTIFICATION:

I certify that the Agency has authorized, unencumbered funds available for obligation to this contract.

BY: _____ **Date:** _____
(Signature of Representative)**Print Name of Representative:** _____Change is within Agency Construction Contract Change Order Certification of: \$ _____ Yes ☐ No ☐**APPROVED BY:** _____ **DATE:** _____
(OSE Project Manager)**SUBMIT THE FOLLOWING TO OSE**

1. SE-381, completed and signed by the Agency.
2. SE-381, Page 2, completed and signed by the Contractor, A/E and Agency, with back-up information to support request.

TECHNICAL SPECIFICATIONS

Pages

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DIVISION 2 – DEMOLITION

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DIVISION 31 – EROSION CONTROL

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APPENDIX – For Information Only

I – SWPPP Narrative and City of Columbia Notice of Intent

II – Asbestos and Lead-Based Paint Report and DHEC Abatement Permits

PROJECT DRAWINGS

T1.00	Title Sheet
C0.01	Existing Site, Utilities and Demolition Notes
C1.01	Existing Site, Utilities and Demolition Plan
C7.01	Erosion and Sediment Control Plan
C7.11	Erosion and Sediment Control Details
C7.12	Erosion and Sediment Control Specifications

DIVISION 1 – GENERAL

SECTION 011000 – PROJECT SUMMARY**PART 1 - GENERAL****1.1 Related Documents**

Specification sections, Drawings and General Provisions of the Contract are all interrelated and apply to this section.

1.2 Contract Description:

- A. The work site is located on the South Carolina Department of Mental Health Crafts Farrow State Hospital Campus at 7901 Farrow Road in Columbia, Richland County, S.C.
- B. Contractor shall furnish all resources, to include but not limited to, materials, supplies, equipment, labor, and supervision necessary to demolish, and dispose of subject Building 15 (Refer to project drawings). Building 15 is an approximately 13,500 square foot single story brick building with a pitched wood truss roof system constructed in 1943. The building has a partial basement with boiler equipment and associated smoke stack. The building is in a deteriorated condition. Some discarded furniture remains in the building. Asbestos Containing Materials (ACMs) have been removed from the building (Asbestos Abatement Project License is provided in Appendix II). Lead-based paint is present on white exterior fascia board. Fluorescent light tubes remain in the building and shall be recycled at a permitted Universal Waste Destination facility. Light ballast that do not have a non-PCB label are considered PCB containing and shall be disposed in accordance with 40 CFR 761, subpart D of the Toxic Substance Control Act (TSCA).
- C. Existing features within the project site to include but not limited to sidewalks in front of the building, and concrete utility pads that should be removed and disposed. Existing stormwater basins are to remain unless specifically noted otherwise, and as such shall be protected from damage during the work. Subsurface utilities including electric, gas and sewer and storm drains are to remain.
- D. The extent of the work is referenced in this construction document and the project drawings.
- E. Perform work under a fixed price construction contract with the Owner in accordance with the Conditions of the Contract.
- F. The work shall be performed in accordance with SE-377 Minor Construction Contract.

1.3 Contractor's Use of the Premises

- A. This surrounding area of the work site is green space except for Oak Street and Palmetto Street which surround Building 15. These roads are actively used to traverse the campus and must remain accessible with the exception of the

section of Oak Street located behind the building which may be used for equipment staging and building debris load out. Contractor shall fully cooperate with the Owner, and conduct work to avoid disruption of normal campus activities and those scheduled and special events.

- B. Contractor shall limit use of the premises to construction activities as indicated and allow for use of areas that are not within the work site and construction activities.
- C. Contractor shall be responsible for installing temporary barricades and fencing to protect vehicular and pedestrian traffic, campus occupants, and contractors. It will be the Contractor's responsibility to maintain the project site and immediate area in a clean and safe manner.
- D. Contractor shall coordinate traffic flow, parking, and deliveries with the Owner.
- E. Any vehicular, pedestrian or facility closures shall be coordinated with the Owner.
- F. Unless required otherwise, work hours shall be 7:00 am to 5:00 pm on weekdays. Work hours outside of this time must be approved by the Owner.
- G. South Carolina DMH Crafts Farrow Campus is a tobacco-free campus.

1.4 Contract Documents

- A. Specifications listed in the Table of Contents shall form part of the Contract.
- B. Drawings listed in the Table of Contents or Index of Drawings shall form part of the Contract.

1.5 Erosion and Sediment Control

Contractor is responsible for compliance with all sediment and erosion control measures as specified in the Comprehensive Stormwater Pollution Protection Plan (CS-SWPPP) for Construction Activities dated March 15, 2023.

1.6 Building Permit and Inspection

- A. The Contractor shall be required to obtain all building permits that the State, County and City requires.
- B. The Owner shall conduct all inspections typically required for demolition actions of this scope. The Contractor is responsible for requesting all inspections. The Contractor shall cooperate and abide by the decisions of the inspectors.

1.7 Special Inspections and Quality Assurance Testing

- A. Special Inspections are not required for this project.
- B. The Owner will employ; at their option and expense, an independent testing firm to conduct quality assurance testing.

- C. The Contractor is responsible for coordinating all quality assurance testing with the Owner. Retesting of materials or work because of previously identified deficiencies will be at the Contractor's expense.

1.8 Fees

- A. The Contractor shall bear the cost of all permit fees with exception to the SCDHEC Erosion Control Permit.
- B. The Contractor shall be responsible for, and shall bear the costs of, disposal of all construction debris and other waste associated with the work.

1.9 Coordination

- A. An Owner's Representative will be designated to act as the point of contact for the Contractor. Required coordination will be directed through the Owner's Representative.
- B. Coordinate scheduling, submittals, and Work to ensure efficient and orderly sequence of interdependent project elements.
- C. The Contractor shall assign and maintain a single person as "job superintendent" on this project. The superintendent shall always be on-site when Work is being performed.
- D. The Contractor shall begin work on the project within seven (10) days after the issuance of the Notice to Proceed and shall achieve substantial completion of the work 40 calendar days after the Notice to Proceed. Final completion shall be achieved 10 calendar days after substantial completion.
- E. No work shall take place without all required approved submittals.

1.10 Field Engineering

- A. Prior to ordering of materials and equipment, field verify all dimensions.
- B. Verify field measurements as indicated on shop drawings or as instructed by manufacturer.

1.10 Pre- Construction Meeting

- A. The Owner will schedule and administer a Pre-Construction Conference on or preceding the date of issuance of the Notice to Proceed. The Owner's Representative(s), Contractor, Contractor's Superintendent and Sub-Contractors shall attend. The purpose of the Pre-Construction Conference is to review the project administrative requirements, safety requirements, and discuss expectations, potential problems, and to conduct a general discussion concerning the project and participants. The meeting will be held at the project site.

1.11 Progress Meetings

- A. Schedule and administer on-site meetings as necessary throughout progress of the Work at appropriate intervals as coordinated and approved by the Owner.
- B. Preside at meetings, record minutes, and distribute copies to those affected by decisions made.
- C. Schedule and administer preparatory meetings prior to each trade starting work. Meeting will be attended by the subcontractor beginning the work, the Superintendent, representatives from the owner, other subcontractors affected by the work, and any required manufacturer's representatives.

1.12 Submittal Procedures

- A. Contractor shall provide the Owner with a submittal log within seven (7) days of the issuance of the Notice to Proceed for approval. Contractor shall maintain the submittal log and submit with each application for payment.
- B. Each submittal shall be accompanied by a transmittal form which identifies as applicable: the Project, Contractor, Subcontractor, Supplier, Specification Section, and pertinent Contract Document references.
- C. Apply Contractor's stamp and signature, certifying that review, verification of Products required, field dimensions, quantities, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents. Submittals not bearing Contractor's stamp and signature will be returned unchecked.
- D. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of completed Work.
- E. Revise and resubmit submittals as required; identify changes made since previous submittal.
- F. Deliver to the Owner's representative email address (tbehnke@smeinc.com).
- G. The Contractor shall submit sufficient copies to meet the Owner's requirements as well as his own. Note that the Owner will require three (3) copies of all submittals for the Owner's use.
- H. Product data, shop drawings, and samples are submitted to Owner's representative for review for the limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- I. After review, distribute returned copies to the Owner and retain one (1) copy for record documents purposes as specified.

1.13 Construction Progress Schedule

- A. Submit a schedule with key activities and milestones for review and approval within seven (7) days of the notice to proceed.
- B. Update schedule as needed during the project.

1.14 Schedule of Values

- A. Prior to the first Application for Payment, submit copy of typed Schedule of Values for review and approval. Contractor applications for payment shall be in accordance with SE-377 Minor Construction Contract. The Owner will not review any applications for payment until the Schedule of Values is approved.
- B. Provide separate material and labor lines for each work item.

1.15 Application for Payment

- A. Contractor may submit only one application for payment for Work scheduled to last less than two months in duration in accordance with the SE-377 Minor Construction Contract.
- B. Payment for materials stored offsite shall be at the discretion of the Owner per the Contract.
- C. When Owner requests substantiating information, submit requested data justifying payment request.

1.16 Change Order Procedures

- A. All Change Order requests will be submitted and approved by the Owner prior to starting any work affected by the Change Order.

1.17 Unit Prices – Not Applicable

1.18 Alternate Bid Items – Not Applicable

1.19 Manufacturer's Field Services and Reports

- A. When specified in individual specification sections or as required by manufacturer's written instructions, require manufacturers or suppliers to furnish qualified staff personnel to observe site conditions and to initiate instructions when necessary.
- B. Report observations and site decisions or instructions that are supplemental or contrary to manufacturer's written instructions.

1.20 Quality Control

- A. Contractor shall have their appointed superintendent on site when any work is being completed in order to supervise the work.
- B. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- C. Comply with manufacturer's instructions.

- D. Comply with specified standards as minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Project Record Documents
 - 1. Maintain one set of Contract Documents to be utilized as Project Record Documents. Record actual revisions to Work. Record information concurrent with construction progress.
 - 2. Maintain one copy of reviewed submittals on site to be utilized as project Record Documents.
 - 3. Prepare Daily Construction Reports to include subcontractors and staff present, inspection or visitation by others, work progress including work achieved and delays, service connections and disconnects, waste generated including waste classification and amounts disposed.

1.21 Tolerances

- A. Monitor fabrication and installation tolerance control of installed products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply fully with manufacturer's tolerances.

1.22 References

- A. The work shall conform to all applicable codes and standards including, but not limited to the International Building Code 2012 (IBC 2012).
- B. Conform to the current edition of the reference standards unless specifically noted otherwise.
- C. When specified reference standard conflict with Contract Documents, the one affording greater protection shall apply.

1.23 Examination

- A. Beginning new work, or additional work without approval is acceptance of existing conditions.

1.24 Temporary Utilities, Facilities, and Controls

- A. No water is available at the building.
- B. Contractor shall provide and pay for additional temporary utility usage required for execution of the contract through substantial completion, including the facilities listed below.
 - 1. Temporary power, lighting, heating, cooling, and ventilation as required.
 - 2. Drinking water for construction personnel.
 - 3. Toilet facilities for construction personnel.

- C. Provide temporary construction barricades and construction fencing to prevent unauthorized entry to construction areas and to protect adjacent areas open to the public.
- D. Provide temporary protection for existing equipment and features that remain in place during the performance of the Work.
- E. Collect and maintain areas free of waste materials, debris, and rubbish. Maintain site in clean, orderly, and safe condition.
- F. Provide all shoring and bracing required for the safe execution of the work.
- G. Provide dust control to protect adjacent vehicles and adjacent properties during construction.
- H. Remove temporary utilities, protection measures, equipment, facilities, and materials prior to Substantial Completion review. Clean and repair damage caused by installation or use of temporary work.

1.25 Protection

- A. Ensure safe passage of persons around all areas of demolition and Work.
- B. Underground utilities not specified for removal will need to be marked prior to and protected during construction.
- C. Conduct operations to prevent damage to adjacent structures, equipment, structural elements, or injury to persons.
- D. Protect installed Work.
- E. Promptly repair damages caused by demolition operations or construction at no additional cost to the Owner.
- F. Install and maintain temporary fire-protection needed to protect against reasonably predictable and controllable fire loss. Comply with NFPA 241.

1.26 Security

- A. Provide security and facilities to protect Work and existing facilities, and Owner's operations from unauthorized entry, vandalism, theft, or disruption.

1.27 Substantial Completion

- A. When the Contractor considers the construction work substantially complete the Contractor shall notify the Owner in writing and prepare an exception list for the Owner's review. When the Owner concurs that the work is substantially complete, the Owner will inspect and give the Contractor a Punch List. The Contractor shall have ten (10) days to complete the Punch List. When the Contractor has completed the Punch List, the Owner will re-inspect the work. When the Owner concurs that all work is complete, the work will be deemed to be complete.

B. Final Cleaning: Execute final cleaning prior to final inspection. Clean dirt and debris from project site and adjacent areas. Remove waste and surplus materials, rubbish, and construction facilities from site.

Part 2 - PRODUCTS

NOT USED

Part 3 - EXECUTION

NOT USED

END OF SECTION 01 10 00

DIVISION 2 – DEMOLITION

SECTION 02 41 13 - SELECTIVE SITE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. This section covers all work associated with the demolition and removal of site features as indicated on the drawings, as specified herein and as otherwise required to accomplish other work associated with the contract.

1.2 LUMP SUM PRICE

- A. The items listed in the proposal shall be considered sufficient to complete the work in accordance with the plans and specifications. Any portion of the work not specifically listed in the bid form shall be deemed a part of the item with which it is associated and shall be included in the lump sum price. The price shall be full compensation for all labor, materials, and equipment necessary to properly demolish and dispose of off-site all facilities shown to be removed on the construction plans and as specified herein including any testing, construction supervision and all other work required for satisfactory completion of site demolition operations.

- B. Base bids on the following criteria:

1. Structures or features to be demolished will be vacated or not in use prior to start of the work.
2. The Owner assumes no responsibility for the condition of the structures or features to be demolished.
3. Explosives shall not be brought to the site.
4. Burning will not be allowed.
5. Contractor is responsible for permits, fees, and licenses.

1.3 UNIT PRICES

- A. None in this Section.

1.4 SUBMITTALS

- A. None this section.

1.5 REGULATORY REQUIREMENTS

- A. Comply with federal, state, and local demolition, hauling and disposal regulations.

1.6 QUALITY ASSURANCE

- A. Materials: All material submittals shall be submitted by the Contractor and reviewed and accepted in writing by the Owner prior to ordering of any materials.

- B. Manufacturer: Material and equipment shall be the standard products of a manufacturer who has manufactured them for a minimum of 2 years and who provides published data on the quality and performance of the projects.
- C. Subcontractor: A subcontractor for any part of the work must have experience on similar work. At the option of the Owner or Owner's Representative, a list of projects and the contacts who are familiar with his competence may be required to be submitted to verify experience.
- D. Equipment: Shall be well maintained, suited for the intended work and capable of delivering the finished product to the standards shown on drawings and as specified herein.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 DEMOLITION

- A. Demolish structures completely, safely, and remove from the site using methods required by governing regulations. Demolition will include sidewalks and two light poles located on the north side of the building.
- B. Proceed with demolition in a systematic manner.
- C. Demolish concrete and masonry in small sections. Break up and remove concrete slabs-on-grade unless otherwise shown to remain.
- D. Demolish and remove below grade construction and concrete slabs on grade to a minimum depth of two feet below existing grade.
- E. Provide full depth sawcuts through all pavements to be removed. Sawcuts shall be neat, straight, and vertical.

3.2 FILLING BELOW GRADE AREAS AND VOIDS

- A. Completely fill below grade areas and voids resulting from demolition or removal of structures (basements, underground fuel storage tanks, wells, cisterns, etc.) using approved fill materials as specified herein.
- B. Fill materials shall be provided from off-site borrow sources. The Contractor shall be responsible for Proctor testing of such borrow material. Proctor test results shall be provided to the Owner's Representative for review prior to delivery of the borrow material to the project site.
- C. Provide soil for fill that can be sufficiently compacted to the specified density. Soft, highly plastic, or otherwise unsuitable soil is prohibited. Fill shall contain sufficient fines to ensure proper compaction. The compaction requirement for this project is 85%.

1. The liquid content of such material shall not exceed 35% when tested per ASTM D4318.
 2. The plasticity index shall not exceed 12% when tested per ASTM D4318, and not exceed 35% by weight shall be finer than the No. 200 sieve when tested per ASTM D1140.
- D. Ensure that areas to be filled are free of standing water, frost, frozen material, trash, and debris prior to fill placement.
- E. Place and compact fill materials as specified herein.
1. Fill is limited to approved materials.
 2. Place material in horizontal lifts not exceeding 8 inches of loose fill.
 3. Compact with equipment suited to appropriate compaction.
- F. Owner to perform compaction testing per ASTM D 1557 to achieve 85% compaction.
- G. Grade surface to match adjacent grades and to provide flow to surface drainage structures after fill placements and compaction.

3.3 DISPOSAL OF DEMOLISHED MATERIALS

- A. Dispose of demolished materials in accordance with current local, state, and federal regulations. All cost in connection with disposing of demolished materials will be the responsibility of the Contractor.

3.4 PROTECTIONS

- A. Ensure safe passage of persons around all areas.
- B. Conduct operations to prevent damage to adjacent buildings, structures, or other facilities, trees, vegetation, or injury to persons, etc.
- C. Promptly repair damages caused to adjacent facilities by demolition operations at no additional cost to the Owner.
- D. Maintain existing utilities indicated to remain, keep in service, and protect against damage during demolition and/or relocation operations.
- E. Prevent interruption of existing utilities serving occupied or used facilities, except when authorized in writing by Owner and authorities having jurisdiction.
- F. Provide temporary services during interruptions to existing utilities as acceptable to governing authorities.
- G. Determine before initiating demolition, for relocating, disconnecting, rerouting, abandoning, or similar action as may be required relative to utilities and other underground piping, to permit work to proceed without delay. Arrangements shall

be made in accordance with the regulations of authorities of utilities concerned, including, but not limited to overhead and underground power and telephone lines and equipment, gas piping, storm sewers, sanitary sewers, or water piping. The Contractor shall not use water when it may create hazardous or objectionable conditions, such as ice, flooding, and/or pollution.

- H. Use water sprinkling and other suitable methods to limit dust and dirt rising and scattering into the air to the lowest practical level.
- I. Comply with governing regulations pertaining to environmental protection.

3.5 INSPECTIONS

- A. Notify the Owner a minimum of 72 hours prior to all required observations, inspections, or tests.
- B. All work conducted and materials furnished shall be subject to review by the Owner. The Owner will also have the right to require that any portion of the work be conducted in his presence.
 - 1. If the work is covered after such instruction, it shall be exposed by the Contractor for observation.
 - 2. However, if the Owner is notified that such work is scheduled and the Owner fails to appear within 72 hours, the Contractor may proceed without him.
- C. All improper work shall be reconstructed and all materials which do not conform to the requirements of the specifications shall be removed from the work upon written notice.
 - 1. The Owner shall have the right to mark materials as rejected to distinguish them as such.

3.6 ACCEPTANCE

- A. Final acceptance will be based on a satisfactory demolition as approved by the Owner or Owner's Representative.
- B. Demolition work shall be re-worked to the satisfaction of the Owner until specified requirements are met. All additional work which is the result of a failed inspection or test shall be performed by the Contractor at no additional cost to the Owner.

END OF SECTION 02 41 13

SECTION 02 41 16 – STRUCTURE DEMOLITION

PART 1 - GENERAL

1.1 Related Documents

Specification sections, Drawings and General Provisions of the Contract are all interrelated and apply to this section.

1.2 Summary

- A. Demolition and removal complete, to include but not limited to all above grade connections, tie-downs, and piers associated with Building 15 located at the South Carolina Department of Mental Health (SCDMH) Crafts Farrow State Hospital Campus located at 7901 Farrow Road in Columbia, South Carolina.
- B. Site clearing, selective site demolition and above and below-grade improvements including utilities that are not part of the building demolition are addressed in specification section 02 41 13 Selective Demolition.
- C. No items are currently scheduled for salvage by Owner.
- D. The extent of the work is referenced in this construction document and the project drawings.
- E. Perform work under a fixed price construction contract with the Owner in accordance with the Conditions of the Contract.

1.3 Definitions

- A. Remove: Detach items from existing construction and legally dispose off-site unless indicated to be removed and salvaged.
- B. Remove and Salvage: Detach items from existing construction, prevent damage, and deliver to Owner.
- C. Existing to Remain: Existing items of construction not to be removed and not otherwise indicated to be removed, removed, and salvaged, or recycled.

1.4 Material Ownership

- A. Unless otherwise indicated, demolition waste is the property of the Contractor and shall be recycled or disposed in a lawful and prudent manner.
- B. Owner reserves the right to retain objects of interest or value encountered during demolition such as historic items, relics, cornerstones, commemoratives, antiques, and items of general cultural value.
- C. Waste classified as RCRA hazardous waste requires prompt notification of the Owner to allow for confirmation and accountability to the Owners applicable hazardous waste permit.

1.5 Submittals

- A. Protection Measures: Submit information to clearly address protection of those project site items scheduled to remain. Also address control of dust, noise, and maintaining clean adjacent surfaces, streets, sidewalks, and buildings. Designate locations and types of barriers and controls.
- B. Schedule: Submit a detailed schedule of work with for all proposed work within the construction documents including environmental related activities. Schedule shall include dates and activities to be performed. Special attention to scheduling shall be performed to detail activities related to the use, alteration, discontinuation, shut-off/capping and removal of utilities.
- C. Waste Handling and Disposal Plan: Submit a detail plan identifying all waste streams and the proposed sources for transportation, treatment, and deposition of waste. The Plan shall address all waste generated from the project to include but not limited to construction and demolition debris, additionally regulated waste such as special waste (asbestos, lead, universal waste, etc.) and any anticipated hazardous waste.
- D. Pre-demolition Documentation: Submit adequate photographs or video documentation of existing conditions adjacent to the project site and those items scheduled to be protected which could be suspected of damage during contracting activities. Common items would include sidewalks, utilities including poles, landscapes, hardscapes, parking areas/features, signage, fencing, etc.
- E. Permits: Submit all permits applicable to the project from all Federal, State, or local regulatory authorities having jurisdiction. Costs associated with the required permits and certificates shall be the responsibility of the Contractor. Copies of all permits and certificates shall be promptly provided to the Owner.
- F. Traffic: Submit a traffic control plan indicating routes through and off Owner property, and anticipated times of loading and unloading.

1.6 Quality Assurance

- A. Pre-demolition Conference: The Contractor and their applicable subcontractors shall schedule and administer a pre-demolition meeting with the Owner and Owner representatives prior to commencement of any building demolition. The conference shall include administrative requirements, safety requirements, discuss expectations, potential problems, and conduct general discussion concerning the project and participants. The Contractor shall preside at meetings, record minutes, and distribute meeting minutes to those affected by decisions made.
- B. Progress Conference: The Contractor shall conduct and administer progress meetings as needed or requested by the Owner in the same manner and expectations of the pre-demolition conference.

1.7 Project Conditions

- A. The Contractor shall maintain access to existing traffic and pedestrian patterns/features, and adjacent occupied facilities. Closure and obstructions to existing traffic and pedestrian patterns/features shall be limited to those designated in the project documents. Additional closures require 72-hour notice and Owner permission.
- B. Building 15 is vacant and asbestos abatement activities have been completed.
- C. Fluorescent light tubes remain in the building and shall be recycled at a permitted Universal Waste Destination facility. Light ballast that do not have a non-PCB sticker are considered PCB containing and shall be disposed in accordance with 40 CFR 761, subpart D of the Toxic Substance Control Act (TSCA).
- D. Lead-based paint on exterior fascia to be removed and disposed as a component in a Class II or III landfill approved by DHEC to accept lead-based paint components.

1.8 Coordination

- A. Coordinate and schedule demolition to not interfere with onsite or offsite project functions.
- B. The Contractor shall stockpile demolition debris only on, or directly adjacent to the foundation, within 20 feet of the foundation, or in areas designated on the project drawings.

PART 2 – PRODUCTS

2.1 Related Documents

- A. Supply materials as indicated in the project documents.
- B. Samples and data material sheets of materials to be used shall be provided prior to delivery to the project site.

PART 3 – EXECUTION

3.1 Examination

- A. Review project documents to existing conditions. Owner does not guarantee that existing conditions are fully reflected as those indicated in project documents. Supply materials as indicated in the project documents.
- B. Survey existing conditions and correlate with project requirements to determine extent of demolition.
- C. Verify utilities have been disconnected and capped prior to demolition.
- D. Verify that hazardous materials have been removed before proceeding with building demolition.

3.2 Protection

- A. Existing trees near the building shall remain.
- B. Existing Utilities: There are no active utility services remaining to the building.
 - 1. Do not interrupt existing utilities serving adjacent facilities.
 - 2. Recognized unavoidable interruption requires 72 hours' notice to occupants and Owner.
 - 3. Provide temporary utility services during interruptions to existing utilities.
- C. Temporary Protection: Provide temporary protection such as fencing, railings, barricades, as required by authorities and the project documents.
 - 1. Protect items to remain, site improvements, and landscaping.
 - 2. Provide temporary barriers to protect people and adjacent buildings and facilities.
 - 3. Remove temporary barriers where hazards no longer exist.

3.3 Demolition, General

- A. Perform demolition of structure in the following sequence.
- B. Remove debris from elevated portions of the building in a controlled decent to minimize ground impact and dust generation.
- C. Demolish foundation walls and associated below-grade construction to include items such as piers, connections, tie-downs, and footings.
- D. Demolish, cut, and cap utilities as near the ground surface as reasonably possible while leaving the connections visible. Avoid unnecessary ground disturbance.
- E. Limit dispersion of dust and dirt with water and other suitable means. Use of water shall not create a detriment to adjacent features, create a nuisance, environmental or safety issue such as run-off, pollution, ice, or flooding.
- F. Remove all debris, rubbish, and other materials resulting from demolition and safely and legally dispose of all items in accordance with applicable regulations. Disposal and recycling actions shall be declared in the Waste Handling and Disposal Plan and shall be approved by the Owner. No burning shall be permitted.
- G. Contractor shall provide clean fill from a pre-approved source to backfill the basement excavation. Place fill in maximum 8-inch loose lifts and compact to at least 95 percent of the maximum dry density. Owner shall provide for third party density testing.

3.4 Site Restoration

- A. Rough grade those disturbed and below-grade areas only. Ground disturbance and subsurface grade shall be limited to the structure foot-print or as indicated on project drawing C7.01 Erosion and Sediment Control Plan.
- B. Completely fill below-grade areas and voids resulting from building demolition operations with satisfactory soils per the Owner and project specifications.
- C. Backfill shall be from borrow that can be readily compacted to the specified densities. Materials shall be unclassified. Material shall contain sufficient fines for specified compaction. Soft, spongy, highly plastic, or otherwise unsuitable material shall not be placed.
- D. Compact the backfill to 95% per test procedure described in ASTM D 1557 for general soil types
- E. Provide supplemental topsoil as necessary to meet seeding and coverage requirements.
- F. Seed the area of demolition and disturbance in accordance with project drawing C7.01 and C0.01 Erosion and Sediment Control Notes, once demolition, rough grading, and filling of voids is complete.

3.5 Repairs

- A. Promptly repair any damage caused by demolition to roads adjacent to construction area.
- B. Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.
- C. Restore exposed finishes of patched areas and extend restoration into adjoining construction in a manner that eliminates evidence of patching and refinishing.

3.6 Cleaning

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by building demolition operations. Return adjacent areas to condition existing before building demolitions operations began.

END OF SECTION 02 41 16

DIVISION 31 – EROSION CONTROL

SECTION 312553 - EROSION AND SEDIMENT CONTROL

PART 1 - GENERAL

1.1 Intent

- A. This work shall consist of temporary and permanent best management practices (BMPs) needed to control erosion, retain sediment on site, and prevent storm water pollution. These BMPs shall include, but not be limited to, construction entrance, silt fence, filter stone, sediment tubes, mulches, grasses, and other erosion control devices or methods. These BMPs shall be installed at the locations where needed to control erosion, retain sediment onsite and prevent storm water pollution during the construction of the project, and as directed by the Owner's Representative, and as shown on the Project Drawings dated March 15, 2023.
- B. The Erosion and Sediment Control Plan presented in the drawings serves as a minimum for the requirements of erosion and sediment control during construction. Contractor has the ultimate responsibility for providing adequate erosion and sediment control and storm water quality throughout the duration of the project. Therefore, if the provided plan is not working sufficiently to protect the project areas, then Contractor shall provide additional BMPs as required to obtain the required protection. Contractor shall include in the Bid price for erosion control a minimum of all items shown on the Erosion and Sediment Control Plan (E&SC Plan) and any additional items that may be needed to control erosion, retain sediment on site, and prevent storm water pollution.

1.2 Summary

- A. Work under this section shall include but not be limited to, installation and maintenance of both temporary and permanent soil erosion and sediment control BMPs, stabilization measures, and protection of all surface water and property both on and off site. This work shall include all labor, materials, and equipment necessary to meet all applicable requirements and as specified in the contract documents.
- B. The Contractor shall be responsible for maintaining erosion and sediment control BMPs. Maintenance shall include but not be limited to making repairs necessary to maintain the BMPs in proper working condition as well as removing accumulated sediment during the demolition period.

1.3 Reference Standards

- A. SCDHEC NPDES General Permit for Stormwater Discharges from Construction Activities SCR 100000.
- B. SCDHEC Stormwater Management BMP Handbook, July 31, 2005.

1.4 QUALITY ASSURANCE

- A. Soil erosion and sediment control BMPs shall be implemented in accordance with the requirements and procedures outlined in this specification, SCDHEC approved Stormwater Pollution Prevention Plan (SWPPP), the state standards or guidelines for soil erosion and sediment control, and all regulatory authorities having jurisdiction. Where conflict between requirements exist, the more restrictive rules shall govern.
- B. The Contractor shall provide all permanent and temporary BMPs shown on the drawings, or as directed by the Owner, Owner's representative, or SCDHEC for the duration of the contract. The E&SC Plans are intended to be a guide to address the stages of work shown. Additional BMPs not specified on the drawings may be necessary and shall be implemented to address intermediary stages of work and any conditions that may develop during construction at no cost to the Owner.
- C. Temporary control provisions shall be coordinated with permanent erosion control features to the extent practical to assure economical, effective, and continuous erosion control throughout the construction and post-construction period.
- D. Soil erosion and sediment control BMPs shall at all times be satisfactory to the Owner's Representative. Owner's Representative will inform the Contractor of unsatisfactory construction procedures and operations if observed. If the unsatisfactory construction procedures and operations are not responded to and corrected within 48 hours, the Owner's Representative may suspend the performance of any or all other construction until the unsatisfactory condition has been corrected. Such suspension shall not be the basis of any claim by the Contractor for additional compensation nor for an extension of time to complete the work. Any complaints, fines, etc. relating to ineffective erosion control, shall be the sole responsibility of the Contractor.
- E. The Contractor shall inspect all soil erosion and sediment control BMPs at least at the beginning and end of each day to ascertain that all devices are functioning properly during demolition. Maintenance of all soil erosion and sediment control BMPs on the project site shall be the responsibility of the Contractor until the project is 100% complete, and until the permanent soil erosion controls are established and in proper working condition.
- F. The Contractor shall protect adjacent properties and watercourses from soil erosion and sediment damage throughout construction.

1.5 Sequence of Construction

- A. The approved construction sequence, as permitted/approved shall be adhered to during the execution of work under this section. All soil erosion and sediment control

BMPs shall be installed in accordance with the phasing sequence shown on the contract documents.

PART 2 - PRODUCTS

2.1 Materials

- A. Contractor shall provide all materials necessary to perform the work. Materials shall comply with the BMP details provided on the project drawings C7.11 and C7.12
- B. Grass Seed:
 - 1. Temporary grass cover (if required) shall be a quick growing species, suitable to the area, in accordance with local criteria and permit requirements, which will provide temporary cover, and not compete with the grasses sown for permanent cover.
 - 2. All grass seed shall be approved by Owner's Representative and in accordance with local regulations prior to installation. See Grassing Specification provided on the project drawings C7.12
- C. Fertilizer and soil conditioners shall be approved by Owner's Representative and in accordance with local regulations prior to installation.

PART 3 - EXECUTION

3.1 General Requirements

- A. The Contractor shall comply with and implement the Stormwater Pollution Prevention Plan.
- B. Review the soil erosion and sediment control project drawings as they apply to current site conditions. Any deviation from the project drawings must be submitted for approval to the site engineer in writing at least 72 hours prior to commencing that work.
- C. All soil sediment and erosion control BMPs shall be in place prior to any earthwork construction, in their proper sequence, and maintained until permanent stabilization is established.
- D. The limit of the area of any earthwork operations in progress shall be commensurate with the Contractor's capability and progress in keeping the finished grading, mulching, seeding and other such permanent control BMPs current and in accordance with the accepted schedule for construction phasing. Should seasonal limitations make such coordination unrealistic, as determined by the Owner's

Representative, temporary erosion control BMPs shall be provided immediately by the Contractor at no expense to the Owner.

- E. Temporary erosion control BMPs shall be used to correct conditions which develop during construction that are needed prior to installation of permanent control features, or that are temporarily needed to control erosion that develops during normal construction practices, but are not associated with permanent control features on the project.
- F. The Contractor shall incorporate all permanent erosion control features into the project at the earliest practical time to minimize the need for temporary controls.
- G. A temporary construction entrance pad shall be installed and maintained at any point where construction vehicles enter a public right-of-way, street, or parking area. The pad shall be used to eliminate mud, debris, or accumulated soils from the construction area onto public right-of-way. The pad shall be constructed as shown on the drawings. Any mud, debris, or accumulated soils tracked on streets shall be cleaned up immediately.
- H. Any disturbed or stockpiled areas that will be left exposed more than 14 days or less according to State NPDES General Stormwater Permits, and not subject to construction traffic, shall immediately receive a temporary seeding. Mulch/straw shall be used if the season prevents the establishment of a temporary cover. Disturbed areas shall be limed and fertilized prior to temporary seeding.
- I. Permanent vegetation shall be established as specified on all exposed areas within 14 days or less according to State NPDES General Stormwater Permit after final grading. Mulch as necessary for seed protection and establishment. Fertilize and condition seedbed prior to permanent seeding or sodding.
- J. Install inlet protection at all existing inlets before beginning demolition.
- K. The quantity of silt fence to be installed will be affected by the actual conditions that occur during the construction of the project. Silt fence shall be installed at locations shown on the drawings and any additional locations necessary for proper erosion and sediment control. The Contractor shall maintain the silt fence until the project is accepted and shall remove and dispose of the silt fence and silt accumulations.
- L. Soil erosion and sediment control shall include but not be limited to the approved BMPs.
- M. The Contractor shall be responsible for providing all additional BMPs that may be necessary to accomplish the intent of the drawings.
- N. Comply with all other requirements of authorities having jurisdiction.

3.2 Stabilization Requirements

- A. Temporary Seeding: The purpose of temporary seeding is to control erosion and reduce sedimentation by stabilizing disturbed areas that would otherwise lay bare for long periods of time before they are worked or stabilized. Temporary seeding is also used where permanent vegetation growth is not necessary or appropriate.
1. Temporary seeding is to be used on exposed soil surfaces such as denuded areas, soil stockpiles, and temporary road banks. Temporary stabilization is REQUIRED within 14 days after construction activity is complete UNLESS construction activity is going to resume within 21 days. When the temporary vegetation does not grow quickly or thick enough to prevent erosion control, re-seed as soon as possible.
 2. Seed selection is based on geographical location, soil type and season of the year in which planting is to be done. Use the tables from Appendix C of the SCDHEC Stormwater BMP Handbook. This table is provided in the Seeding Specification on the project drawings. Failure to carefully follow agronomic recommendations results in an inadequate stand of temporary vegetation that provides little or no erosion control.
- B. Permanent Seeding: The purpose of permanent seeding is to control runoff and prevent erosion by establishing a perennial vegetative cover with seed.
1. A major consideration in the selection of the type of permanent grass is to establish the intended use of the land.
 2. The use of native species is preferred when selecting vegetation. Seed selection is based on geographical location, soil type and season of the year in which planting is to be done. Use the tables from Appendix C of the SCDHEC Stormwater BMP Handbook. This table is provided in the Seeding Specification on the project. Failure to carefully follow agronomic recommendations results in an inadequate stand of permanent vegetation that provides little or no erosion control.
- C. Sodding: Sodding is transplanting vegetative sections of plant materials to promptly stabilize areas that are subject to erosion. Use commercial sod which is a cultured product instead utilizing specific grass species.
1. Sodding is appropriate for any graded or cleared area that may erode, or where a permanent, long-lived plant cover is immediately needed. Examples of where sodding is used are yards, buffer zones, stream banks, dikes, swales, slopes, outlets, level spreaders, and filter strips.
 2. Installation
 - a. In general, do not use sod on slopes greater than 2:1 or 3:1 if it is mowed. If sod is placed on steep slopes, lay it with staggered joints and/or stable the sod down.

- b. Clear the soil surface of trash, debris, roots, branches, and soil clods in excess of 2-inches length or diameter. Rake soil surface to break crust just before laying sod or irrigate soil lightly if the soil is dry. Do not install sod on hot, dry, or frozen soil, gravel, compacted clay, or pesticide treated soils.
 - c. Harvest, deliver and install sod within a period of 36-hours. Store rolls of sod in shade during installation. Sod should be free of weeds and be of uniform thickness, about 1-inch, and should have a dense root mat for mechanical strength.
 - d. Lay strips of sod beginning at the lowest area to be sodded with the longest dimension of the strip perpendicular to the slope and stagger in a bricklike patten. Wedge strips securely in place. Square ends of strip to provide for a close, tight fit. Match angled ends correctly to prevent voids.
 - e. Roll or compact immediately after installation to ensure firm contact with underlaying topsoil.
 - f. Irrigate the sod until the soil is wet to a depth of 2-inches and keep moist until grass takes root.
3. Inspection and Maintenance
- a. Watering may be necessary after planting and during periods of intense heat and/or lack of rain. Keep soil moist to a depth of 2-inches until sod is fully rooted.
 - b. Mow to a height of 2 to 3 inches after sod is well-rooted (2-3 weeks). Do not remove more than 1/3 of the shoot in any one mowing.
 - c. Permanent, fine turf areas require yearly applications of fertilizer.
 - d. Inspect the sod frequently after it is first installed, especially after large storm events, until it has established a permanent cover.

3.3 Disposition of Temporary Measures

- A. All temporary erosion and sediment control BMPs shall be disposed of within thirty (30) days after final site stabilization is achieved or after the temporary measures are no longer needed as determined by Owner's Representative.
- B. Trapped sediment and other disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion.

END OF SECTION 31 25 53

APPENDIX – For Information Only

APPENDIX I

SWPPP Narrative and City of Columbia Notice of Intent

Comprehensive Stormwater Pollution Prevention Plan (CS-SWPPP) For Construction Activities:

Project/Site Name:

Craft Farrow Building 15 Demolition

Primary Permittee:

SC Department of Mental Health

Project Address/Location:

7901 Farrow Road
Columbia, Richland County
South Carolina 29203

Permittee/Owner Contact:

David Carver
7901 Farrow Road Building 4
Columbia, SC 29203
(843) 245-6690
David.Carver@scdmh.org

SWPPP Preparer:

S&ME, Inc.
Frances Creel, P.E.
301 Zima Park Road
Spartanburg, SC 29301
864-208-9392 office
864-576-8730 fax
fcreel@smeinc.com

Day-to-Day Operator:

SC Department of Mental Health
David Carver
7901 Farrow Road Building 4
Columbia, SC 29203
(843) 245-6690
David.Carver@scdmh.org

OS-SWPPP Preparation Date:

03 / 15 / 2023

Modification Dates:

Modification I: __/__/____

Modification II: __/__/____

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***C-SWPPP is acronym for Comprehensive Storm Water Pollution Prevention Plan**

****OS-SWPPP is acronym for On-Site Storm Water Pollution Prevention Plan**

Section 1

Project Overview

1.1 Narrative (Construction General Permit (CGP) Section 3.2.1)

Construction Activities and Best Management Practice (BMP) Summary

The Building 15 Demolition Project will demolish and remove one structure located along Oak Road (7901 Farrow Road) in Columbia, Richland County, South Carolina. Building 15 is a part of the South Carolina Department of Mental Health Crafts Farrow Campus which is identified as Richland County parcel number R14400-01-01A, a 1,199.74 acre parcel. SC Mental Health Commission is the owner of the parcel. The land disturbance area for the Building 15 Demolition Project is expected to be 0.7 acres. A Location Map, Figure 1, is located in Appendix A.

The disturbed area is considered as "the site" and is bounded by Oak Road to the north and west and Palmetto Road to the east. It contains a single-story brick structure with a partial basement, concrete pads and concrete sidewalks, utilities, and storm drainage structures. Building 15 will be demolished including the concrete floor slabs. Concrete pads and concrete sidewalks within the site will be removed. Oak Road and Palmetto Road, utilities, and the storm drain system will remain in place.

Perimeter control BMPs will consist of silt fencing or sediment tubes. Oak Road and Palmetto Road are private roads and Farrow Road is approximately 0.4 miles away from the site. Sediment from the site, therefore, is not expected to reach Farrow Road. If the need arises, a construction entrance will be constructed at Oak Road in the northwestern portion of the site. The site slopes to the west from an elevation of 376 at Palmetto Road to an elevation of 362 at Oak Road. An existing storm drainage system carries stormwater around the building at the north and south ends. The stormwater systems discharge on the west side of Oak Road. Inlet protection will be installed at the existing catch basins. Temporary and permanent seeding will be used for final stabilization in areas not stabilized by other methods.

The Crafts Farrow Campus Building 15 Demolition Project will be conducted in one phase. Demolition is expected to begin on July 1, 2023 and seeding of the site is expected to be complete by October 1, 2023. The erosion and sediment control BMP's will be installed in two phases. The perimeter BMP's will be

installed initially. Permanent grass seeding will be planted upon the completion of demolition.

Existing Conditions

The site includes Building 15 and is bound by Oak Road and Palmetto Road. The site is developed with a single-story brick structure with a partial basement, and concrete sidewalks and pads. The 0.7 acre site is approximately 0.35 acres impervious (pavement and roofs) and approximately 0.35 acres pervious (grass). The stormwater runoff flows from the high point at Palmetto Road in the form of sheet flow and enters catch basins at the north and south ends of the building. The stormwater systems discharge on the west side of Oak Street. The existing developed drainage flow paths are shown on Figure 2, USGS Topographic Map located in Appendix A.

Soil types within the Crafts Farrow Campus Building 15 Demolition Project area include Lakeland – Urban land complex (LkB), two (2) to six (6) percent slopes. The USDA Soil Map, Figure 3, is located in Appendix A.

Post-Development Conditions

Post-demolition topography for the project area will be similar to the pre-demolition conditions. The footprint of the existing Building 15 will be vegetated with grass and therefore pervious. The footprint of the concrete pads and sidewalks will be grassed and therefore pervious. The post-demolition site is expected to contain approximately 0.0 acres of impervious (roofs and pavement) areas and approximately 0.7 acres of pervious areas (grass).

Since the site will be more pervious after demolition, stormwater runoff from the site will decrease in quantity in the post-developed condition. The pre-developed peak discharges and post developed peak discharges are shown below in *Table 1, Summary of Pre/Post Peak Discharges*.

Table 1.1: Summary of Pre/Post Peak Discharges

Storm	Pre-Developed	Post-Developed
2 year 24 hour storm	0.88 cfs	0.00 cfs
10 year 24 hour storm	2.59 cfs	0.09 cfs

HydroCAD software was utilized to model the stormwater discharge from the project site in the pre-demolition and post demolition conditions. The modeling results are located in Appendix IV.

The drainage routes from pre-developed conditions to post-developed conditions will be unchanged. Stormwater runoff will sheet flow to the catch basins at the northeast and southeast corners of the site. Stormwater runoff from the footprint of the building will sheet flow across Oak Road. The post developed drainage flow path is shown on Figure 2, USGS Topographic Map. Vegetation will serve as post construction water quality measures.

Flooding Issues

The Crafts Farrow Campus Building 15 Demolition site is not located within a FEMA special flood hazard area (SFHA). The parcel in its entirety, contains a special flood hazard area located northwest of the site (FEMA Flood Insurance Rate Map Panel Number 45079C0251L). The project site, however, is in an area of minimal flood hazard. FEMA Flood Insurance Rate Map Panel Number 45079C0253L is included in Appendix A as Figure 4. The site location is shown.

The owner is not cognizant of potential flooding problems within the surrounding area that may be a direct result of current site conditions or the proposed site demolition work.

1.2 Stormwater Management and Sediment Control (CGP Section 3.2.2)

Industrial Stormwater Discharges

Industrial stormwater discharges are not located within the disturbance limits of this project.

Water Quality BMPs, Erosion Prevention and Sediment Control BMPs

Permanent grassing will provide water quality, erosion prevention and sediment control for the disturbed areas not stabilized with other methods. The specifications for temporary and permanent grassing, as well as maintenance requirements are shown on Erosion and Sediment Control Detail Drawings.

Silt fencing and/or sediment tubes will be installed to provide sediment control along the western side of the disturbed area. Details showing silt fence installation and maintenance and sediment tube installation and maintenance are shown on the Erosion and Sediment Control Details Drawings. Approximately 440 linear feet of silt fence will outline the disturbed area where the building and concrete sidewalks and pads will be removed. Silt fence is utilized with a drainage area of less than 0.25 acres per 100 linear feet of silt fence. Silt fence is not used in areas of concentrated flows such as ditches.

Sediment tubes will be utilized for inlet protection at the three catch basins along the eastern side of the building.

Construction Entrance (If required)

Access areas into and out of the limits of disturbance as shown on the construction site plan are required to be equipped with a construction entrance if there is a potential for sediment transport outside the site. The use of this BMP will limit the amount of sediment being transported by construction vehicles onto existing roadways or other impervious areas. Any tracked sediment, along with any attached pollutants, deposited on impervious areas could be washed downstream during the next rain event. Each construction entrance must be installed in the location as shown on the Erosion and Sediment Control Site Plans, and in accordance with the Details Drawings.

A construction entrance, if required because of sediment transport, will be provided on Oak Road in the western side of the Crafts Farrow Building 15 footprint.

If a new entrance or exit is required that is not shown on the plans, install the construction entrance as noted by the construction entrance detail, mark the location on the plans and make a record of this minor modification in the SWPPP's modification log, which is located within Appendix VII of the on-site SWPPP.

Each stabilized construction entrance should be used in conjunction with Street Sweeping measures if it becomes apparent that sediment is still being tracked onto adjacent impervious areas, even with the use of the construction entrance.

Dust Control

During the demolition of the building, extremely dry conditions, drought, and/or excessive winds, the construction site should be treated for dust control to prevent the suspension of fine sediment particles into the air, being carried offsite, and deposited on adjacent properties or surface waters. This practice may not be directly called out on the construction site plans. Fire hoses will be connected to an existing hydrant or a new hydrant to supply water for dust control. A portable tank (buffalo tank) and a water truck will also be used to spray the buildings and soil to prevent excessive dust at the demolition site.

Other Stormwater Management Procedures

Based on the nature, conditions, and/or procedures associated with this construction site, the following items must be followed and adopted by all those conducting land disturbing activities at this site:

- All construction debris must be stockpiled in designated areas, which have been provided with the proper BMPs to prevent the discharge of pollutants through stormwater runoff from building or other similar materials off-site or into surface waters. Demolition wastes are expected to be hauled from the site without stockpiling. Metal may be stockpiled onsite. A stockpile area is shown at the western side of the building.
- Any additional waste material or stockpile material (i.e., soil and mulch) must also be stored in the designated areas as shown on the Construction Site Plans or as the contractor, responsible for day-day activities at this site, deems appropriate. Silt fence or an approved equal shall surround all stockpiled materials.
- All parties conducting work at this construction site must be informed of and make note of pollutant sources, both industrial and construction, at this site, and be informed of all controls and measures that will be implemented to prevent the discharge of these pollutants in stormwater runoff. A spill kit will be kept onsite in the construction trailer.
- Any additional non-stormwater discharges, as referenced in the Construction General Permit (CGP), should be eliminated or reduced to the maximum extent feasible. All unpreventable non-stormwater discharges shall be treated through the approved stormwater management system before release off-site.

Following is a list of allowable non-stormwater discharges. Non-stormwater discharges in bold are expected at the Crafts Farrow Building 15 Demolition site.

- Fire hydrant flushing
- Wash water without detergents
- **Water used for dust control**
- **Potable water**
- Building wash down water without detergents
- Uncontaminated pavement wash water
- Uncontaminated condensation from mechanical equipment
- Uncontaminated ground or spring water
- Water from foundation or footing drains

- Uncontaminated excavation dewatering
- **Landscape irrigation.**

1.3 Sequence of Construction

The following construction sequence shall be followed throughout the demolition process.

1. Receive SWPPP approval and NPDES General Permit coverage from City of Columbia and South Carolina Department of Health and Environmental Control (SCDHEC).
2. Obtain demolition permit from City of Columbia Planning and Development Department.
3. Notify City of Columbia 48 hours prior to beginning land-disturbing activities.
4. Attend pre-construction meeting with City of Columbia.
5. Install construction entrance (If required).
6. Install perimeter controls (e.g., silt fence and filter sediment tubes, and inlet protection).
7. Demolish building, pads, and sidewalks.
8. Provide temporary and permanent vegetation on disturbed areas in accordance with seeding specification.
9. Upon achieving final stabilization, remove temporary sediment control BMPs.
10. Engineer shall submit notice of termination to City of Columbia.

1.4 Non-Numeric Effluent Limits

Stormwater Volume and Velocity Control

During the implementation of construction activities, all parties performing work at this construction site whose work may affect the implementation of the SWPPP must be informed of and directed on how to comply with this Non-Numeric Effluent Limit, which requires the management of stormwater runoff within the construction site and at each outfall. The purpose of this requirement is to control the stormwater volume and velocity at these locations to minimize erosion.

Specifically, each responsible party should be made aware of the practices that have been or should be implemented at the construction site to accomplish these particular stormwater management practices. Below is a list of practices that may

be utilized within the disturbed area and at each outfall at construction sites to control stormwater volume and velocity:

Volume Control

- Limiting the amount of disturbed area and exposed soils
- Diverting off-site run on around the construction site through the existing stormwater drainage system;
- Controlling the Drainage Patterns within the Construction Site;
- Stabilization of Disturbed Areas.

Velocity Control

- Surface Roughening;
- Use of sediment tubes and inlet protection BMP's;
- Use of Erosion Control Blankets, Turf Reinforcement Mats, and other Non-Vegetative BMPs that can be used to quickly stabilize disturbed areas.

The SWPPP Preparer/Engineer should approve any modifications (additional BMPs or Changes to Existing BMPs) to address the management of stormwater volume and velocity prior to implementation. All approved SWPPPs that were issued coverage under the CGP should include ample BMPs and other control measures to address this specific Non-Numeric Effluent Limit.

Soil Exposure, Compaction and Preservation

Throughout construction activities, the amount of soil exposed during construction should be kept to a minimum. This may be accomplished by minimizing the amount of disturbed area within the permitted Limits of Disturbance (shown on the approved construction site plans) to only that which is necessary to complete the proposed work. For areas that have already been disturbed and where construction activities will not begin for a period of 14 days or more, temporary stabilization techniques must be implemented.

Prior to implementation of any major grading activities, topsoil is to be preserved by placing it in areas designated for stockpiling until final grades are reached. Each stockpile must be equipped with proper sediment and erosion controls to preserve the topsoil and protect adjacent areas from impacts. Once final grades have been reached, the preserved topsoil should be utilized to apply to areas identified for stabilization. Topsoil contains nutrients and organisms that aid in the growth of vegetation.

The compaction of soil should also be minimized to the degree practicable during grading activities. This is especially important during the replacement of topsoil to aid in a quick establishment of vegetative cover. Compaction of soil

may also reduce rainfall's ability to infiltrate into the soil, increasing the amount of stormwater runoff.

Soil Stabilization

Throughout construction activities, soil stabilization techniques are to be initiated as soon as practicable whenever any clearing, grading, excavating, or other land-disturbing activities have permanently or temporarily ceased on any portion of the construction site and will not resume for a period exceeding 14 calendar days. For areas where initiating stabilization measures is infeasible, (e.g., where snow cover, frozen ground, or drought conditions preclude stabilization), initiate vegetative or non-vegetative stabilization measures as soon as practicable.

Steep Slopes (Slopes of 30% grade or greater)

All disturbed steep slopes (30% grade, ~3H:1V, or greater), and steep slopes to be created through grading activities must be managed in a fashion that limits the potential of erosion along the slopes. All parties whose work is/was responsible for the creation/disturbance of steep slopes must comply with the following items:

- Minimize the Disturbance of all steep slopes, when possible.
- Divert Concentrated or Channelized Flows of stormwater away from and around steep slope disturbances.
- Use Specialized BMP Controls including temporary and permanent seeding with soil binders, erosion control blankets, surface roughening, reducing continuous slope length with terracing or diversions, gradient terraces, interceptor dikes and swales, grass-lined channels, pipe slope drains, subsurface drains, level spreaders, check dams, seep berms, and triangular silt dikes to minimize erosion.
- Initiate Stabilization Measures as soon as practicable on any disturbed steep slope areas where construction activities have permanently or temporarily ceased and will not resume for a period exceeding seven (7) calendar days.
- A Vegetative and/or Non-Vegetative Cover must be established within three (3) working days from the time that stabilization measures were initiated.

Stabilization of steep slopes should be a priority for those performing work at the construction site. At the very least, runoff control BMPs should be implemented to transport stormwater runoff from the top of the slope to the toe of the slope. An example of this is to install diversion swales along the top of slope and direct the runoff towards pipe slope drains to transport the runoff to the toe of the slope. All pipe slope drain outlets are to be equipped proper outlet protection.

Sediment Discharge Minimization

Permittees, Contractors, and all other parties responsible for conducting land-disturbing activities are required to install and maintain all erosion and sediment BMPs that are identified on the approved construction site plans. These BMPs have been designed and approved to address such factors as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soils particle sizes expected to be present on the construction site. Proper installation, inspection, and maintenance will allow these BMPs to operate at maximum efficiencies in order to minimize sediment discharges to the maximum extent practical.

Pollutant Discharge Minimization

Permittees, Contractors, and all other parties responsible for conducting land-disturbing activities are required to install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, the following items must be implemented:

- Minimize the discharge of pollutants from dewatering trenches and excavations by managing runoff with the appropriate controls. Otherwise, these discharges are prohibited;
- Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
- Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater; and
- Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

Prohibited Discharges

Permittees, Contractors, and all other responsible parties for conducting land-disturbing activities are prohibited from discharging the following items from the construction site:

- Wastewater from washout of concrete, unless managed by an appropriate control;
- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

- Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
- Soaps or solvents used in vehicle and equipment washing.

1.5 Buffer Zone Management (CGP Section 3.2.4.C.)

Buffer Zone Narrative

Section 3.2.4.C of the CGP requires a buffer zone when surface waters are located on or immediately adjacent to the construction site. No waters are located on or immediately adjacent to the Crafts Farrow Building 15 Demolition site. The unnamed tributary to Crane Creek is approximately 3,000 feet from the demolition site.

Additional Buffer Zone Information

All construction sites that contain or are adjacent to surface waters must provide a vegetated buffer of at least 30 linear feet, or 45 linear feet when the surface water is classified as a Sensitive Waters (Section 3.2.4.C of South Carolina's CGP). This requirement is only applicable during construction. Work may be conducted within the buffer area once all disturbed areas discharging towards the buffer zone have had final stabilization measures implemented. This work must have been included within the SWPPP at the time of coverage approval.

Buffer Zones Requirements should be explained in detail during the Pre-Construction Conference. These details should include the outlining of the exact location of where the buffer starts and ends, the sediment and erosion controls precluding the buffer and all other general information pertinent to maintaining the buffer zone area during construction.

All contractors and sub-contractors shall be made aware of the buffer zones and establish a work procedure that preserves and protects these areas. The buffer zones should be flagged prior to any perimeter control placement and, most importantly, before mass clearing and grubbing. These areas must also be inspected during construction for areas of excessive sediment impacts, which may need to be removed if sediment impacts are evident within the buffer zone.

In the event that a portion of a buffer is accidentally disturbed, the contractor shall temporarily stabilize the area as soon as possible and consult with the construction site's inspector, permittee, and/or engineer on the installation of any additional sediment control or erosion prevention measure to protect the portion of the buffer still undisturbed.

1.6 Certification Statement

I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000."

Name Frances Creel, P.E.

Title Senior Engineer

Date 4/10/2023



(Signature and Seal)

Section 2

Site Features And Sensitive Areas

2.1 Sources of Pollution

Throughout construction activities, each permittee, contractor, and person responsible for conducting work will ensure that sources of pollution are managed to prevent their discharge from the construction site. Expected pollution sources during construction have been identified in Table 2.1, but due to the nature of construction activities, it is not possible to predict all pollution sources that may appear during a construction project. For that reason, the following table has also been provided to help all those performing work at this construction site identify possible sources of pollution.

Stormwater runoff subjected to the identified pollution sources must be treated by the appropriate BMPs as directed by this SWPPP.

In the event that any additional sources of pollution are identified during construction, the person(s) with day-to-day operational control at the site is to add the new source(s) to **Table 2.1** and consult with the SWPPP Preparer to properly address this source and to prevent the discharge of its pollutant through stormwater runoff.

Table 2.1: Potential Sources of Pollution

Source	Material or Chemical	Location*	Appropriate Control Measures
Loose soil exposed/disturbed during demolition activities	Sediment	All areas within the Limits of Disturbance	As directed by the E&SC Plans. This includes construction entrance, silt fence, sediment tubes and grassing.
Demolition	Solid Waste	All areas within the Limits of Disturbance	Security fencing, and truck bed covers.
Material Delivery and Storage Areas	Nutrients, pH, Sediment, Heavy Metals, oils & grease	All areas used as storage areas	Grassing, and vegetative buffer
Equipment fueling and maintenance areas	Metals, hydrocarbons, oils and greases	Areas surrounding equipment	Provide Spill Kit onsite. Repair leaking and broken hoses.
Dust	Particulate Matter	All areas within the Limits of Disturbance	Water sprayed from fire hydrants, buffalo tank, and water truck

*Area where material/chemical is used

2.2 Surface Waters

The web based National Wetlands Inventory map was utilized to determine whether jurisdictional wetlands and waters are located within the parcel. Figure 6, National Wetlands Inventory, shows that wetlands and waters are contained within the parcel. Impacts, however, are not proposed within the Building 15 Demolition site.

Stormwater runoff from the Site flows overland in the form of sheet flow from the high point at Palmetto Road and enters catch basins at the north and south ends of the building. The stormwater systems discharge on the west side of Oak Street. Additional stormwater runoff from the building footprint will sheet flow across Oak Street. The Site stormwater runoff discharges to an unnamed tributary located on the southwestern edge of the parcel. The unnamed tributary flows into Crane Creek. The unnamed tributary is outlined on Figure 2, USGS Topographic Map located in Appendix I.

2.3 *Impairments and Total Maximum Daily Loads (TMDLs)* **(CGP Section 3.2.12)**

The South Carolina Department of Health and Environmental Control's water quality tool was used to determine the nearest downstream water quality monitoring station from the Site. Station B-081 is located at the intersection of US 321 and Crane Creek. Monitoring station B-081 is listed on the 2018 SC 303d list of impaired waters for macroinvertebrate (BIO). Figure 5A, SCDHEC Watershed and Water Quality Report, and Figure 5B, Water Quality Monitoring Stations, are located in Appendix I.

The Site is located within the Lower Broad River TMDL watershed for FC (Fecal Coliform). The parameter is fully supported.

Site-Specific Requirements

The Crafts Farrow Campus Building 15 Demolition Project's stormwater discharges drain into WoS which is impaired for BIO and has an established TMDL for the FC impairment. Due to the possibility that pollutants in construction stormwater discharges from this site may contribute to any of these impairments, the following must be conducted throughout the lifespan of all land-disturbing activities at this site:

- Weekly inspections by the Owner's representative of all the primary sediment control BMPs;
- Provide portable toilets at the site.
- Employee training/acknowledgement during the Pre-Construction Meeting;
- Installation of additional BMPs to meet the water quality standards (as directed by the SWPPP preparer and as approved by the regulating agency); and
- All sediment control BMPs have been designed to meet or exceed an 80% trapping efficiency.

Additionally, post-construction BMPs may be required to be installed, once final stabilization is reached, to address an established TMDL or Impairment once construction operations have been completed.

2.4 *Critical Areas (CZC only)*

This section is not applicable to the Crafts Farrows Campus Building 15 Demolition Project.

Section 3

Compliance Requirements

3.1 SWPPP Availability

A copy of the SWPPP (including a copy of the general permit), Notice of Intent (NOI), and CGP coverage letter from SCDHEC must be retained at the construction Site or a nearby location easily accessible during normal business hours from the date of commencement of construction activities to the date of final stabilization. The SWPPP must be made available upon request and at the time of a construction site inspection by SCDHEC, EPA, local agency approving sediment and erosion plans, grading plans, or storm water management plans; local government officials; and the Operator of a Municipal Separate Storm Sewer System (MS4) receiving discharges from the Site. The company or organization with day-to-day operational control over SWPPP implementation must have a copy of the SWPPP available at a central location on-site for the use of those identified as having responsibilities under the SWPPP whenever they are on the construction Site. If an on-site location is unavailable to store the SWPPP when no personnel are present, notice of the plan's location must be posted near the main entrance at the construction Site.

3.2 Pre-Construction Conference

A pre-construction meeting is required as a condition of the CGP. The pre-construction meeting is to follow the requirements outlined in SCR100000, Section 4.1. The pre-construction meeting is arranged with City of Columbia and is held at the site. All permittees/operators working on the project site are required to attend this meeting where this plan is to be thoroughly reviewed with the Primary Permittee and the SWPPP Preparer. Meeting minutes are required to be taken that identify the topics covered and the participants in attendance. The pre-construction meeting agenda, list of attendees, and minutes are included in Appendix III. The Contractor and Subcontractor Log is contained in Appendix III.

3.3 Inspection Requirements

Weekly documented inspections, with no time period between inspections exceeding nine days, shall be performed in accordance with the General Permit Section 4.2, Inspections. An inspection is recommended within 24 hours of the end of a storm event of 1.0 inches or greater. Since less than one acre is

disturbed, a Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) is not required to perform the weekly documented inspections.

BMP's shall be inspected for effectiveness and condition. Deficiencies shall be documented in inspection reports and be brought to the attention of the Project Supervisor for correction.

Completed inspection forms shall be kept in the onsite SWPPP in the Contractor Field Office. Inspection records shall describe current conditions, repair or replacement requirements. Recommended actions related to the findings of inspections should be stated. Areas that have been temporarily or permanently stabilized shall be identified.

The inspection log and records are retained in Appendix V. A rain gauge shall be maintained at the Site and rainfall amounts shall be recorded daily in the rainfall log located in Appendix VI.

3.4 Maintenance Requirements

Best Management Practices (BMPs) must be maintained in effective operating condition. Weekly documented inspections (with no time period between inspections exceeding nine days), shall be performed in accordance with the General Permit. Maintenance required as a result of inspections shall be performed within seven (7) calendar days by the primary permittee. Individual BMP maintenance procedures are shown as part of the BMP details on the Erosion and Sediment Control Details drawing.

Maintenance records shall describe repair, replacement, and maintenance of BMPs undertaken based on the inspections and maintenance procedures described above and the individual requirements of the BMPs. Actions related to the findings of inspections should reference the specific inspection report. Records should describe actions taken, dates completed, and note the party that completed the work.

The Project Supervisor shall document maintenance in the onsite SWPPP.

The maintenance records are retained in Appendix V.

3.5 Record Keeping

Various record keeping logs are contained within the Appendices. The Pre-Construction Meeting Attendance Log, the Contractor and Subcontractor Log, are contained within Appendix III. The Inspection Log is contained within Appendix

V. The Rainfall log is contained within Appendix VI. The SWPPP Modification Log, and the Soil Stabilization Log are contained within Appendix VII.

3.6 Final Stabilization

Upon completion of the Crafts Farrow Campus Building 15 Demolition Project, permanent grassing and mulch shall be established on disturbed areas in accordance with the Grassing Specification on the Standard Details and Notes Drawing. Permanent vegetation shall address post construction water quality for this project. When the SWPPP preparer (professional engineer or landscape architect) has determined that a uniform permanent vegetative cover with a density of 70 percent has been established or equivalent permanent stabilization measures have been implemented to provide effective cover for exposed portions of the construction site not stabilized with permanent vegetation, temporary erosion and sediment control BMP's may be removed.

When major construction activities are completed on part of the site, document final stabilization efforts for that portion of the site. The Construction General Permit allows discontinuation of inspection activities in these areas.

The Soil Stabilization Log is contained in Appendix VII to indicate areas that have achieved final stabilization. Once final stabilization has been reached on disturbed areas, the Notice of Termination is to be submitted to City of Columbia.

Appendix I

Site Maps

Figure 1 – Location Map

Figure 2 – USGS Topographic Map

Figure 3 – NRCS Soils Map

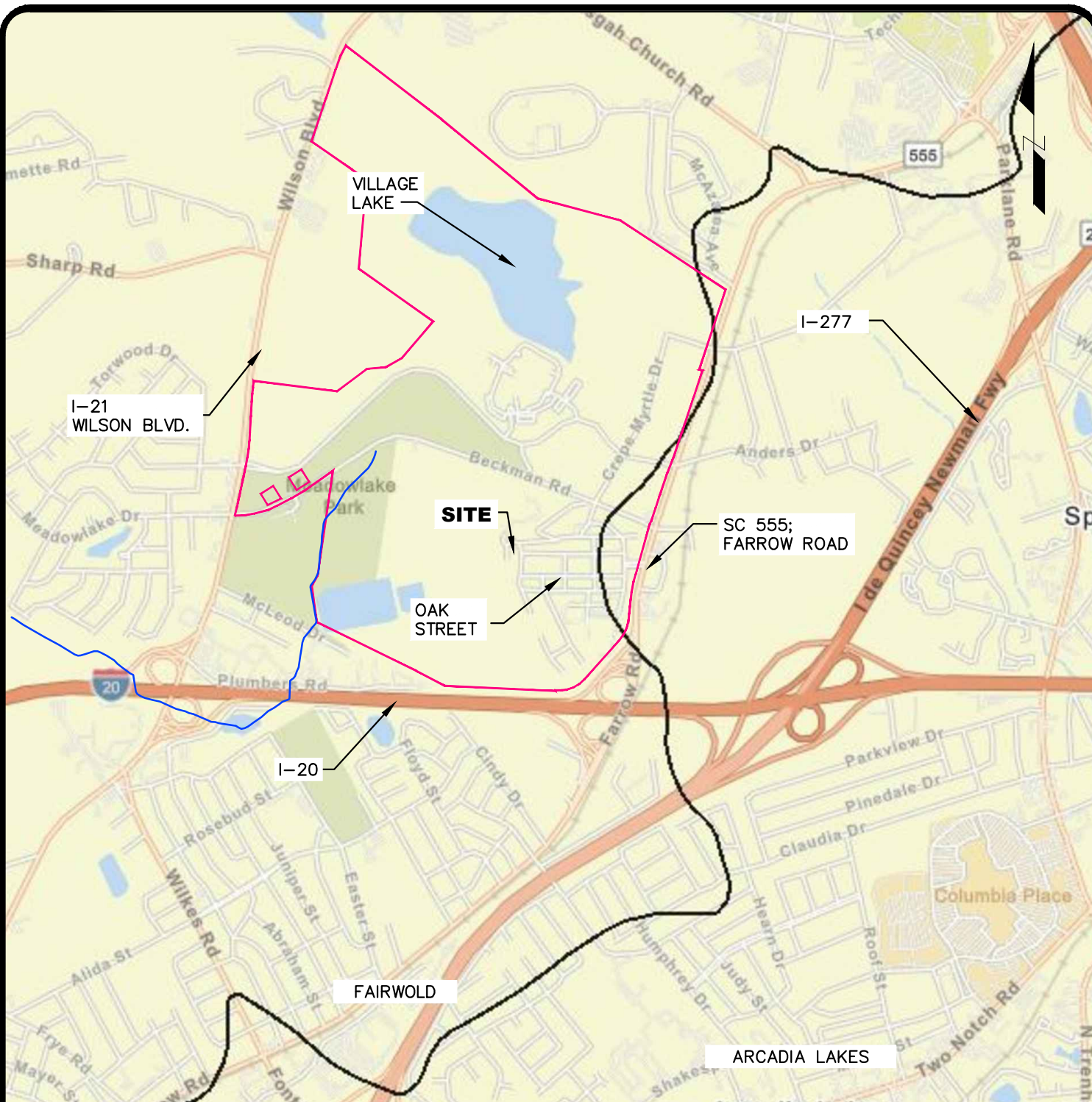
Figure 4- FEMA FIRM Floodway Map

Figure 5A – SCDHEC Watershed and Water Quality Information

Figure 5B – Water Quality Monitoring Stations

Figure 6 – National Wetlands Inventory Map

Drawing Path: T:\Columbia-1610\Projects\2023\218631_South Carolina Department of Mental Health_SCDMH Bldg. 15 Demolition Specs_Columbia, SC\ENVP\Project Docs\SWPPP\Figures\218631 FIG. 1 and 2.dwg



SOURCE: SC WATERSHED ATLAS, SC DHEC GIS



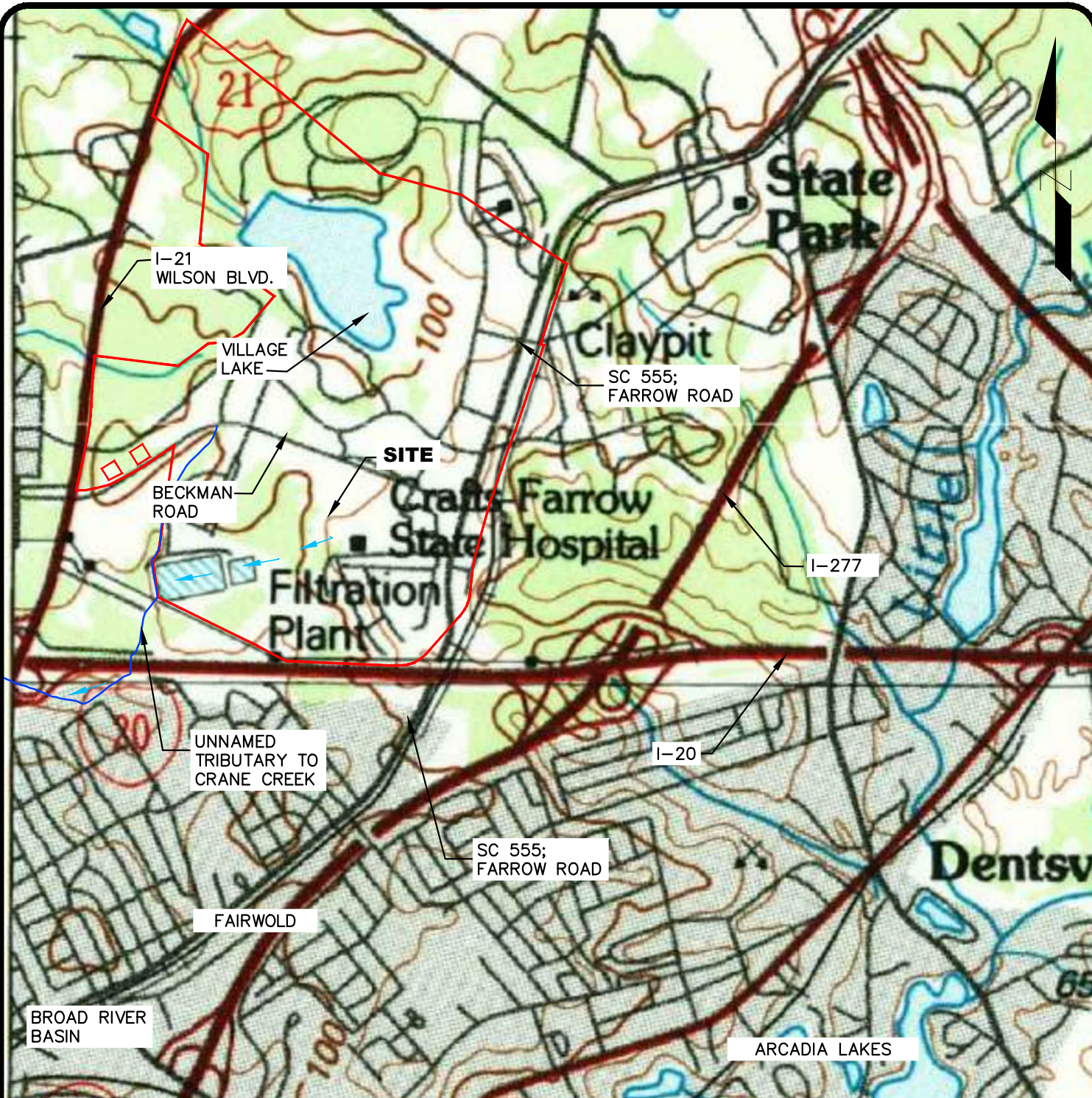
LOCATION MAP

SCDMH CFSH BUILDING 15 DEMOLITION
7901 FARROW ROAD
COLUMBIA, RICHLAND COUNTY, SOUTH CAROLINA

SCALE:
AS SHOWN
DATE:
02/13/2023
PROJECT NUMBER
218631

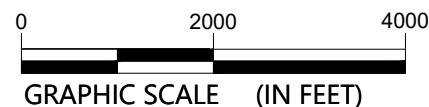
FIGURE NO.

1



STORMWATER RUNOFF FROM THE SITE FLOWS SOUTHWESTERLY INTO AN UNNAMED TRIBUTARY WHICH THEN FLOWS NORTHWESTERLY INTO THE CRANE CREEK.

SOURCE: USGS TOPOGRAPHIC MAPS, 30 X 60 MINUTE SERIES, CAMDEN, SOUTH CAROLINA QUADRANGLE, 1986 EDITION



USGS TOPOGRAPHIC MAP

SCDMH CFBS BUILDING 15 DEMOLITION
7901 FARROW ROAD
COLUMBIA, RICHLAND COUNTY, SOUTH CAROLINA

SCALE:
AS SHOWN
DATE:
02/13/2023
PROJECT NUMBER
218631

FIGURE NO.

2

FIGURE 3
Custom Soil Resource Report
Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Richland County, South Carolina

Survey Area Data: Version 25, Sep 7, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 15, 2022—May 10, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LkB	Lakeland-Urban land complex, 2 to 6 percent slopes	6.1	67.1%
PeB	Pelion loamy sand, 2 to 6 percent slopes	2.7	29.4%
PeD	Pelion loamy sand, 6 to 15 percent slopes	0.3	3.5%
Totals for Area of Interest		9.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

National Flood Hazard Layer FIRMette

FIGURE 4



80°59'20"W 34°5'S'N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

80°58'43"W 34°4'30"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/15/2023 at 1:10 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Watershed and Water Quality Information

General Information

Applicant Name: SCDMH CFSH Campus

Permit Type: Construction

Address: 410 BECKMAN RD,
COLUMBIA, SC, 29203

Latitude/Longitude: 34.079152 / -80.983673

MS4 Designation: Medium MS4

Monitoring Station: B-081

Within Coastal Critical Area: No

Water Classification (Provisional): FW

Waterbody Name: Unnamed Trib

Entered Waterbody Name:

Parameter Description

NH3N	Ammonia	CD	Cadmium	CR	Chromium
CU	Copper	HG	Mercury	NI	Nickel
PB	Lead	ZN	Zinc	DO	Dissolved Oxygen
PH	pH	TURBIDITY	Turbidity	ECOLI	Escherichia coli (Freshwaters)
FC	Fecal Coliform (Shellfish)	BIO	Macroinvertebrates (Bio)	TP	(Lakes) Phosphorus
TN	(Lakes) Nitrogen	CHLA	(Lakes) Chlorophyll a	ENTERO	Enterococcus (Coastal Waters)
HGF	Mercury (Fish Tissue)	PCB	PCB (Fish)		

Impaired Status (downstream sites)

Station	NH3N	CD	CR	CU	HG	NI	PB	ZN	DO	PH	TURBIDITY	ECOLI	FC	BIO	TP	TN	CHLA	ENTERO	HGF	PCB
B-081	X	X	X	X	X	X	X	X	X	X	X	X	X	N	X	X	X	X	X	X
B-316	X	X	X	X	X	X	X	X	N	X	X	InTF	X	A	X	X	X	X	X	X
B-834	F	F	F	F	F	F	F	F	A	F	F	A	X	A	X	X	X	X	X	X

F = Standards full supported
N = Standards not supported

A = Assessed at upstream station
X = Parameter not assessed at station

WnTN = Within TMDL, parameter not supported
InTN = In TMDL, parameter not supported

WnTF = Within TMDL, parameter full supported
InTF = In TMDL, parameter full supported

Parameters to be addressed (those not supporting standards)

BIO - Macroinvertebrates (Bio)

DO - Dissolved Oxygen

ECOLI - Escherichia coli (Freshwaters)

Fish Consumption Advisory

Waters of Concern (WOC)

TMDL Information - TMDL Parameters to be addressed

In TMDL Watershed: Yes

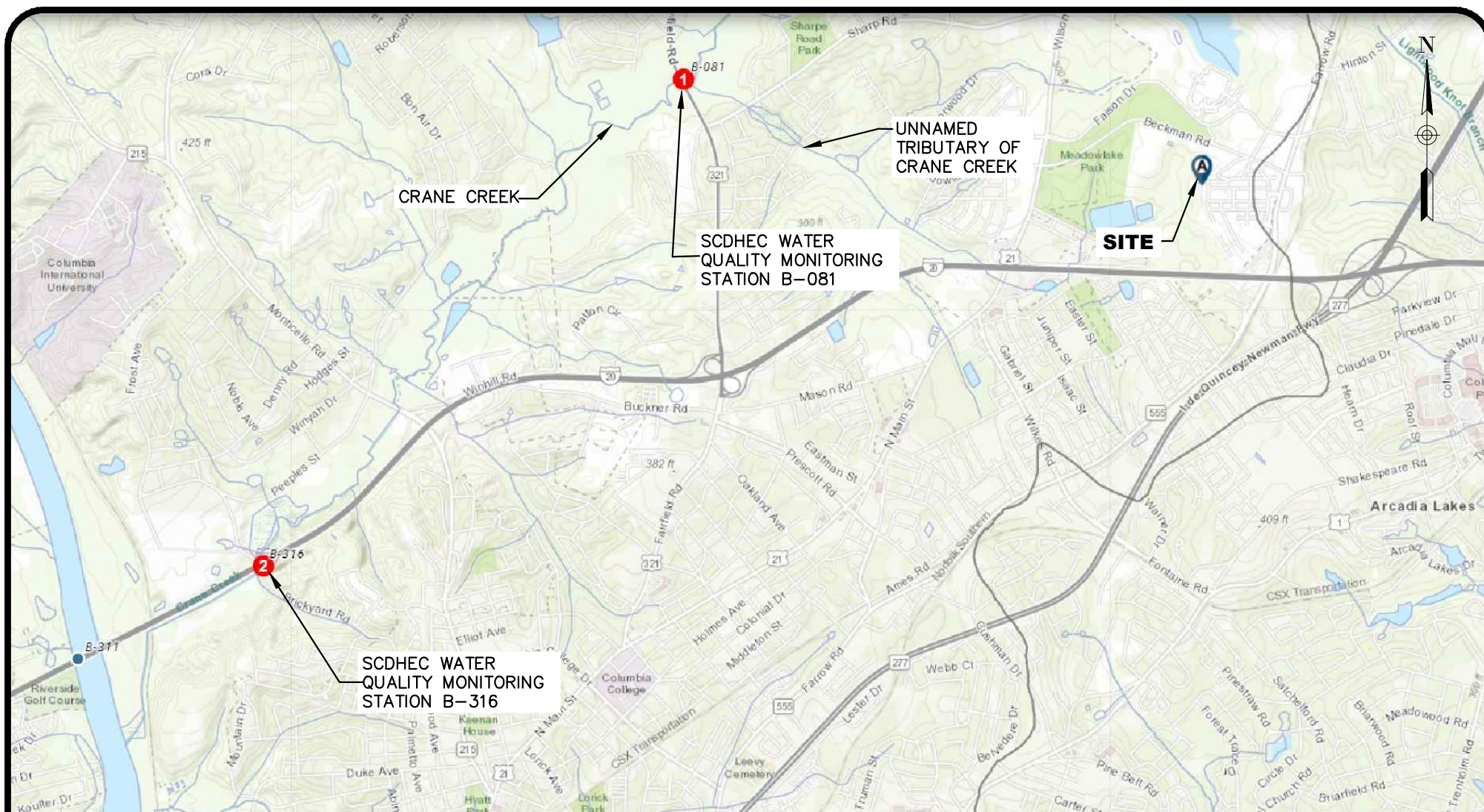
TMDL Site: B-316

TMDL Report No: 028-05

TMDL Parameter: Fecal

TMDL Document Link: https://www.scdhec.gov/sites/default/files/docs/HomeAndEnvironment/Docs/tmdl_lwrbrd_fc.pdf

Report Date: February 27, 2023



SOURCE: SCDHEC WATER QUALITY TOOL.

BROAD RIVER BASIN



WATER QUALITY MONITORING STATIONS

SCDMH CFSH BUILDING 15 DEMOLITION
7901 FARROW ROAD
COLUMBIA, RICHLAND COUNTY, SOUTH CAROLINA

SCALE:

NTS

DATE:

02/13/2023

PROJECT NUMBER

218631

FIGURE NO.

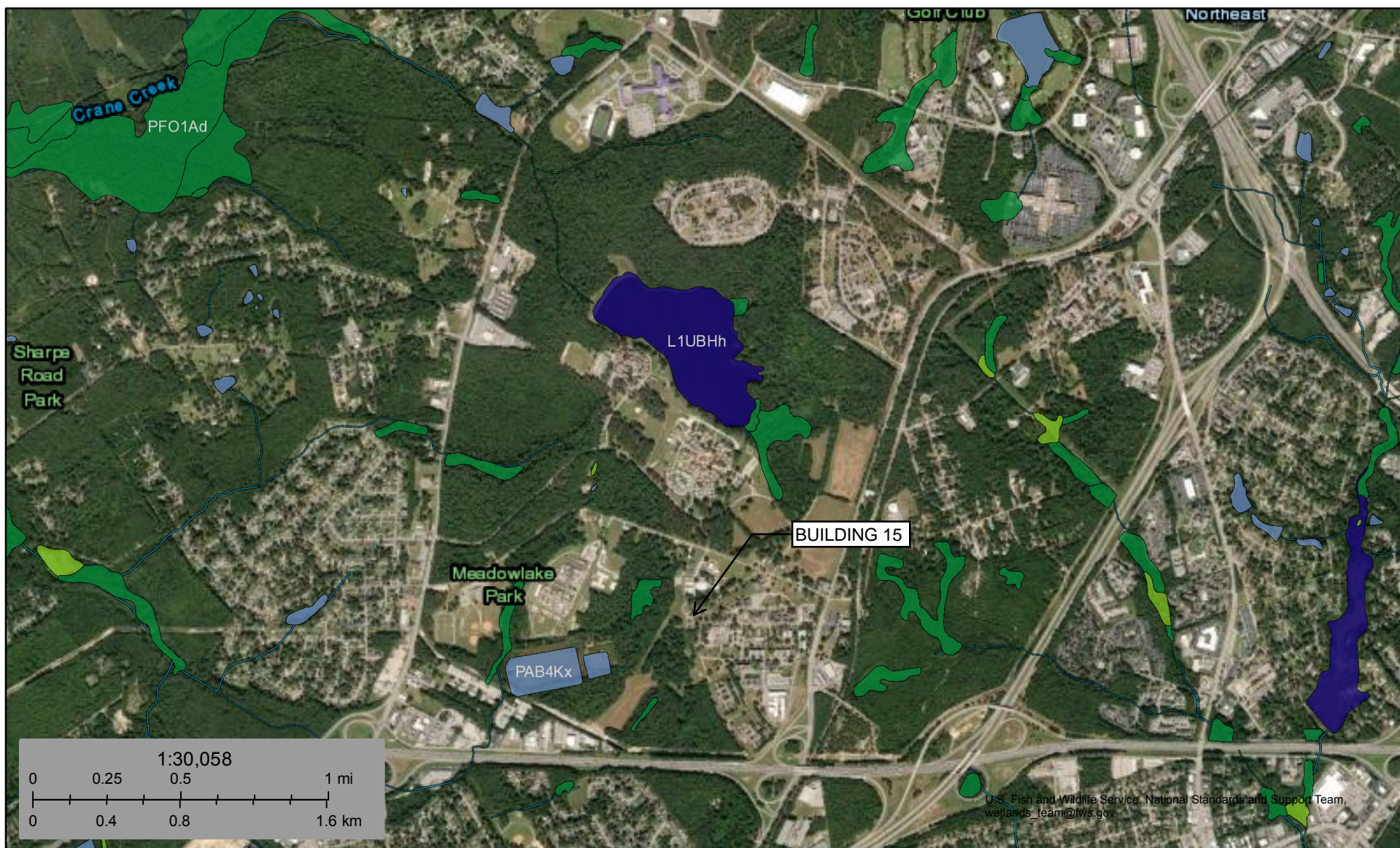
5B



U.S. Fish and Wildlife Service

National Wetlands Inventory

FIG. 6 - Craft Farrow Bldg. 15 Demolition



March 15, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix II

Notice Of Intent/Approvals

Appendix III

Pre-Construction Meeting/Certifications

[illegible]

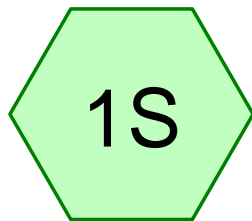
[illegible]

SWPPP Contractor & Sub-Contractor Log		
Name of Construction Site		Location of Construction Site
Company/Individual Name	Work Responsibilities	
1.)		
Start Date:		
Completion Date:		
2.)		
Start Date:		
Completion Date:		
3.)		
Start Date:		
Completion Date:		
4.)		
Start Date:		
Completion Date:		
5.)		
Start Date:		
Completion Date:		
6.)		
Start Date:		
Completion Date:		
7.)		
Start Date:		
Completion Date:		
8.)		
Start Date:		
Completion Date:		
9.)		
Start Date:		
Completion Date:		
10.)		
Start Date:		
Completion Date:		

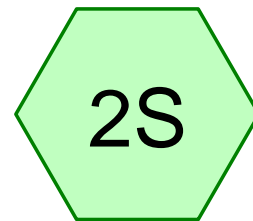
SWPPP Contractor & Sub-Contractor Log (Continued)		
11.)		
Start Date:		
Completion Date:		
12.)		
Start Date:		
Completion Date:		
13.)		
Start Date:		
Completion Date:		
14.)		
Start Date:		
Completion Date:		
15.)		
Start Date:		
Completion Date:		
16.)		
Start Date:		
Completion Date:		
17.)		
Start Date:		
Completion Date:		
18.)		
Start Date:		
Completion Date:		
19.)		
Start Date:		
Completion Date:		
20.)		
Start Date:		
Completion Date:		
21.)		
Start Date:		
Completion Date:		

Appendix IV

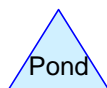
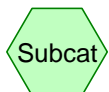
Engineering Reports



Pre Developed



Post Developed



Routing Diagram for SCDMH

Prepared by S&ME, Inc., Printed 3/9/2023

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SCDMH

Prepared by S&ME, Inc.

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Printed 3/9/2023

Page 2

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
1.650	39	>75% Grass cover, Good, HSG A (1S, 2S)
0.350	98	Unconnected pavement, HSG A (1S)
2.000	49	TOTAL AREA

SCDMH

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Page 3

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
2.000	HSG A	1S, 2S
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
0.000	Other	
2.000		TOTAL AREA

SCDMH

Prepared by S&ME, Inc.

Printed 3/9/2023

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Page 4

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
1.650	0.000	0.000	0.000	0.000	1.650	>75% Grass cover, Good	1S, 2S
0.350	0.000	0.000	0.000	0.000	0.350	Unconnected pavement	1S
2.000	0.000	0.000	0.000	0.000	2.000	TOTAL AREA	

SCDMH

Prepared by S&ME, Inc.

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Type II 24-hr 2 Year Rainfall=3.60"

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Page 5

Time span=5.00-48.00 hrs, dt=0.05 hrs, 861 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Pre Developed

Runoff Area=1.000 ac 35.00% Impervious Runoff Depth=0.58"
Tc=5.0 min CN=60 Runoff=0.88 cfs 0.048 af

Subcatchment 2S: Post Developed

Runoff Area=1.000 ac 0.00% Impervious Runoff Depth=0.01"
Flow Length=190' Tc=5.0 min CN=39 Runoff=0.00 cfs 0.001 af

Total Runoff Area = 2.000 ac Runoff Volume = 0.049 af Average Runoff Depth = 0.29"
82.50% Pervious = 1.650 ac 17.50% Impervious = 0.350 ac

Summary for Subcatchment 1S: Pre Developed[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 0.88 cfs @ 11.98 hrs, Volume= 0.048 af, Depth= 0.58"

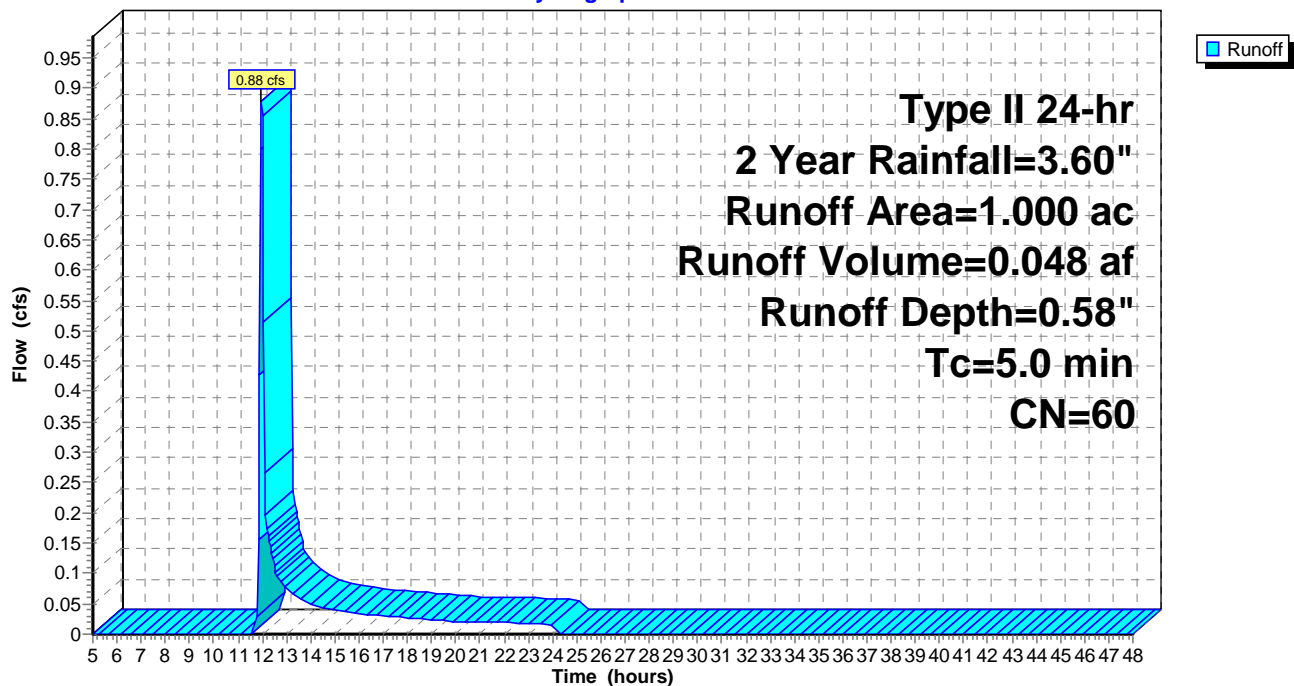
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-48.00 hrs, $dt=0.05$ hrs
Type II 24-hr 2 Year Rainfall=3.60"

Area (ac)	CN	Description
0.350	98	Unconnected pavement, HSG A
0.650	39	>75% Grass cover, Good, HSG A
1.000	60	Weighted Average
0.650		65.00% Pervious Area
0.350		35.00% Impervious Area
0.350		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, PRE-DEMOLITION

Subcatchment 1S: Pre Developed

Hydrograph



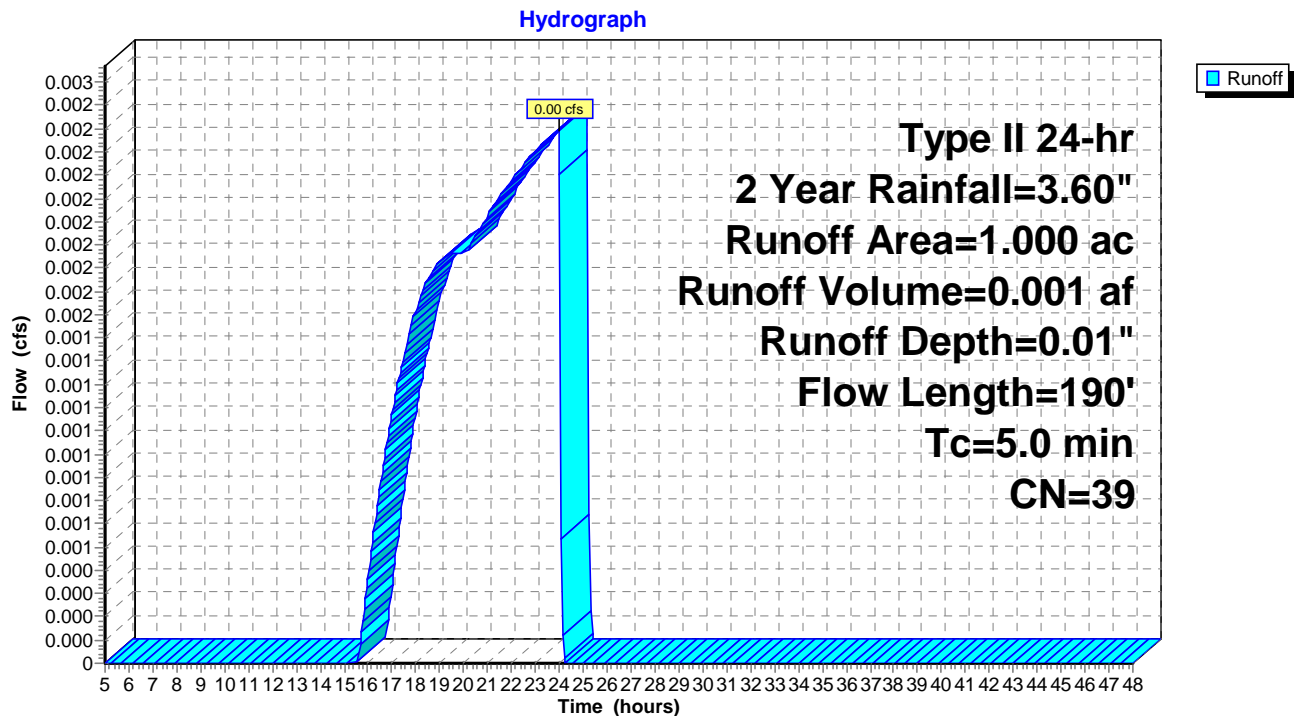
Summary for Subcatchment 2S: Post Developed[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 0.00 cfs @ 23.95 hrs, Volume= 0.001 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-48.00 hrs, $dt=0.05$ hrs
Type II 24-hr 2 Year Rainfall=3.60"

Area (ac)	CN	Description
1.000	39	>75% Grass cover, Good, HSG A
1.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.1375	0.39		Sheet Flow, Grass: Short n= 0.150 P2= 3.60"
0.7	90	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
5.0	190	Total			

Subcatchment 2S: Post Developed

SCDMH*Type II 24-hr 10 Year Rainfall=5.30"*

Prepared by S&ME, Inc.

Printed 3/9/2023

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Page 8

Time span=5.00-48.00 hrs, dt=0.05 hrs, 861 points

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Pre Developed

Runoff Area=1.000 ac 35.00% Impervious Runoff Depth=1.48"

Tc=5.0 min CN=60 Runoff=2.59 cfs 0.123 af

Subcatchment 2S: Post Developed

Runoff Area=1.000 ac 0.00% Impervious Runoff Depth=0.26"

Flow Length=190' Tc=5.0 min CN=39 Runoff=0.09 cfs 0.022 af

Total Runoff Area = 2.000 ac Runoff Volume = 0.145 af Average Runoff Depth = 0.87"
82.50% Pervious = 1.650 ac 17.50% Impervious = 0.350 ac

Summary for Subcatchment 1S: Pre Developed[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 2.59 cfs @ 11.97 hrs, Volume= 0.123 af, Depth= 1.48"

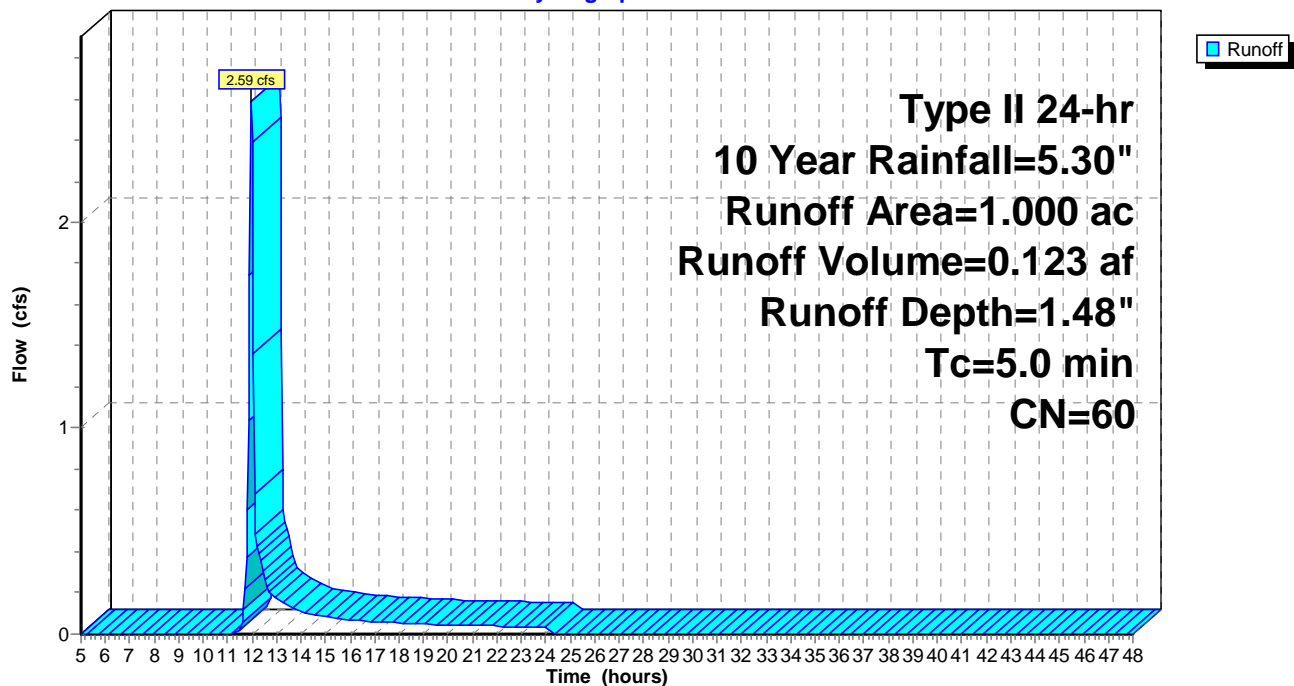
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-48.00 hrs, $dt=0.05$ hrs
Type II 24-hr 10 Year Rainfall=5.30"

Area (ac)	CN	Description
0.350	98	Unconnected pavement, HSG A
0.650	39	>75% Grass cover, Good, HSG A
1.000	60	Weighted Average
0.650		65.00% Pervious Area
0.350		35.00% Impervious Area
0.350		100.00% Unconnected

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, PRE-DEMOLITION

Subcatchment 1S: Pre Developed

Hydrograph



Summary for Subcatchment 2S: Post Developed[49] Hint: $T_c < 2dt$ may require smaller dt

Runoff = 0.09 cfs @ 12.04 hrs, Volume= 0.022 af, Depth= 0.26"

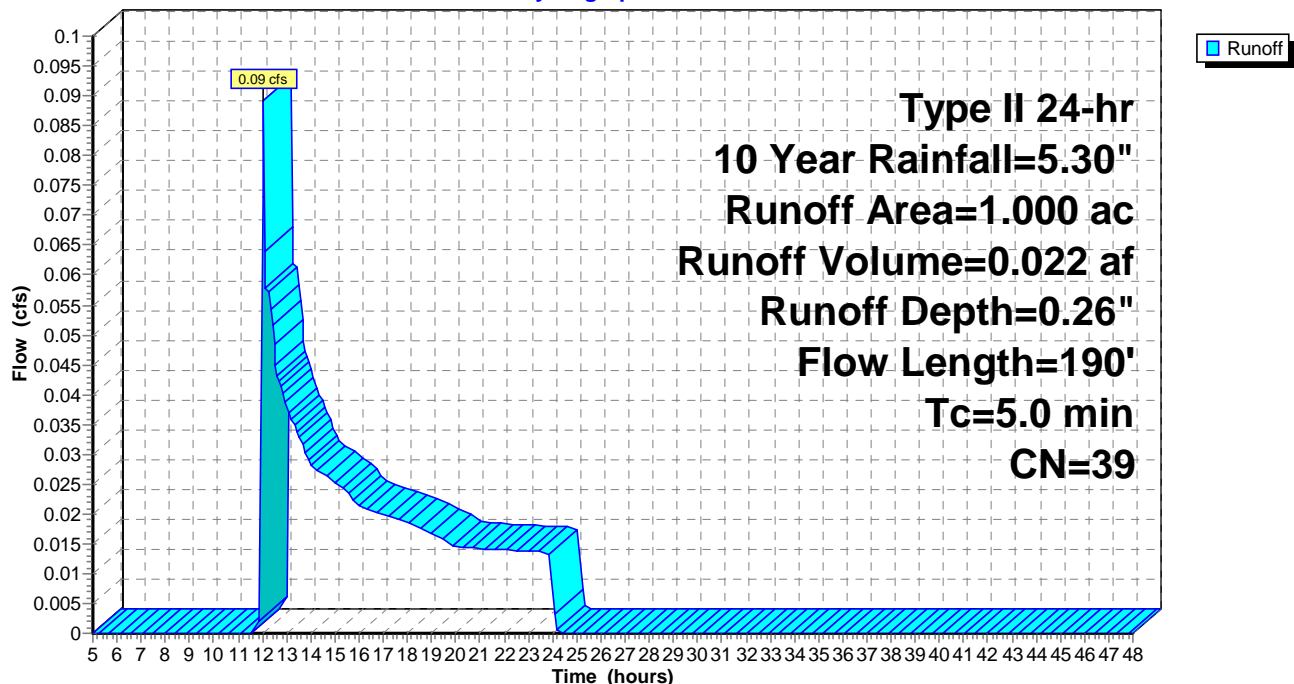
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-48.00 hrs, $dt=0.05$ hrs
Type II 24-hr 10 Year Rainfall=5.30"

Area (ac)	CN	Description
1.000	39	>75% Grass cover, Good, HSG A
1.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.3	100	0.1375	0.39		Sheet Flow, Grass: Short n= 0.150 P2= 3.60"
0.7	90	0.0200	2.28		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
5.0	190	Total			

Subcatchment 2S: Post Developed

Hydrograph

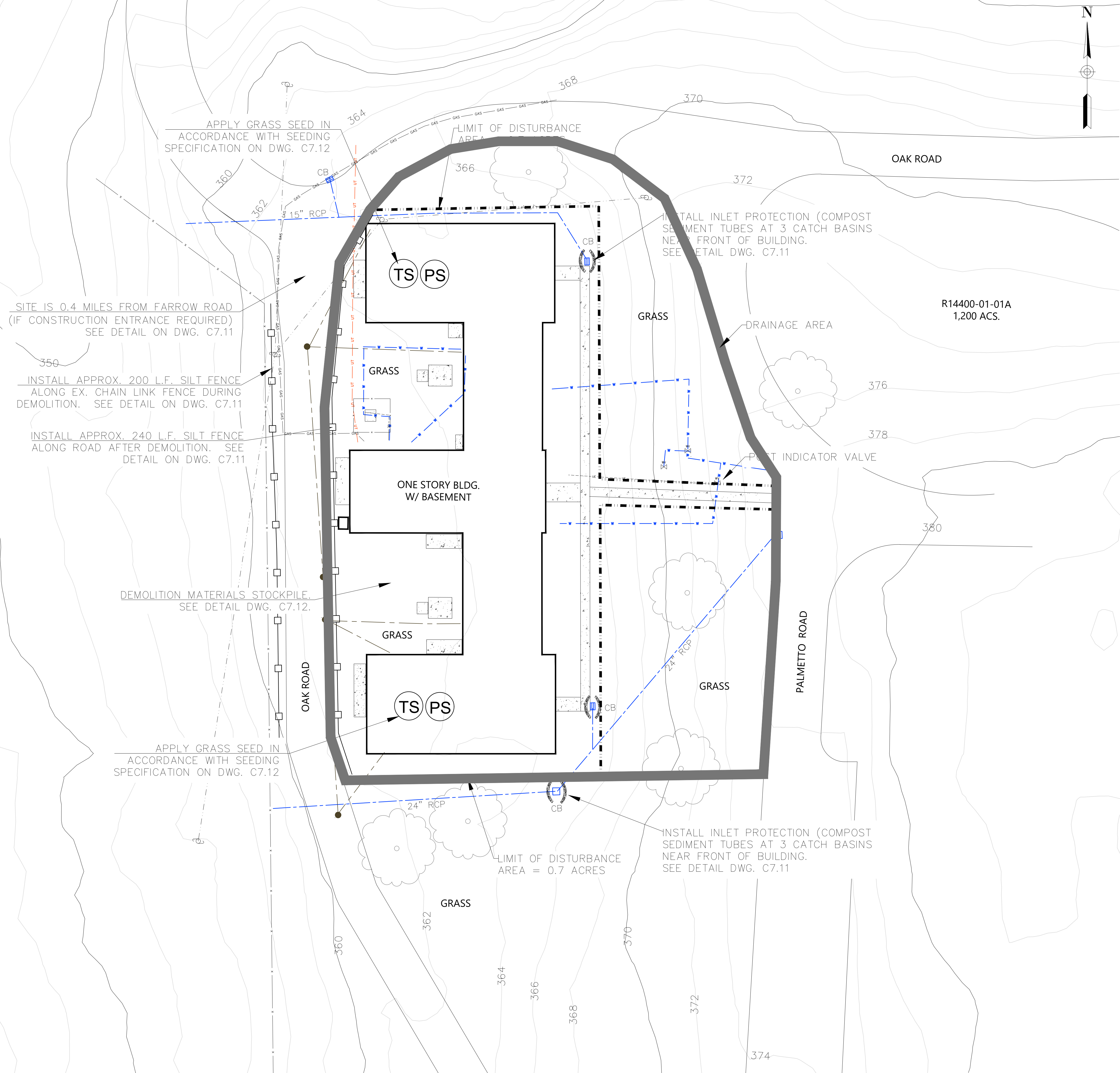


[illegible]

EROSION & SEDIMENT CONTROL PLAN

CONSTRUCTION DOCUMENTS FOR BUILDING DEMOLITION
7901 CRAFT FARROW ROAD, BUILDING 15
COLUMBIA, SOUTH CAROLINA

PROJECT NUMBER
218631
DRAWING NUMBER



CONSTRUCTION SEQUENCE

1. RECEIVE SWPPP APPROVAL AND NPDES GENERAL PERMIT COVERAGE FROM CITY OF COLUMBIA AND SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC).
2. OBTAIN DEMOLITION PERMIT FROM CITY OF COLUMBIA PLANNING AND DEVELOPMENT DEPARTMENT.
3. NOTIFY CITY OF COLUMBIA 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
4. ATTEND PRE-CONSTRUCTION MEETING WITH CITY OF COLUMBIA.
5. INSTALL CONSTRUCTION ENTRANCE (IF REQUIRED).
6. INSTALL PERIMETER CONTROLS (E.G., SILT FENCE AND SEDIMENT TUBES INLET PROTECTION).
7. DEMOLISH BUILDING, PADS AND SIDEWALKS.
8. PROVIDE TEMPORARY AND PERMANENT VEGETATION ON DISTURBED AREAS IN ACCORDANCE WITH SEEDING SPECIFICATION.
9. UPON ACHIEVING FINAL STABILIZATION, REMOVE TEMPORARY SEDIMENT CONTROL BMPs.
10. ENGINEER SHALL SUBMIT NOTICE OF TERMINATION TO CITY OF COLUMBIA.













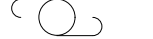



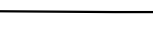
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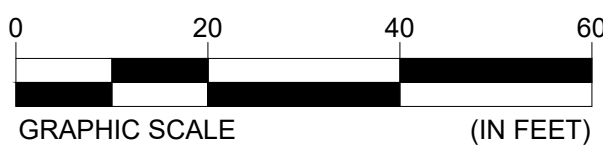
1. SITE OWNER: SC MENTAL HEALTH COMMISSION
SITE ADDRESS: 7901 FALLOW ROAD, COLUMBIA, SC.
RICHLAND COUNTY PARCEL NO. R14400-01-01A.
TOTAL SITE ACREAGE = APPROX. 1.200 ACRES.
2. ESTIMATED DISTURBED ACREAGE: 0.7 ACRES.
3. PRE-DEVELOPED IMPERVIOUS AREA = 0.35 ACRES
4. POST-DEVELOPED IMPERVIOUS AREA = 0.0 ACRES
5. RECEIVING STREAM: UNNAMED TRIBUTARY OF CRANE CREEK.
6. SEE CONSTRUCTION SEQUENCE ON THIS DRAWING.
7. SEE SCDHEC STANDARD NOTES ON DRAWING C7.12.
8. TEMPORARY AND PERMANENT SEEDING SHALL BE APPLIED TO DISTURBED AREAS. SEE SEEDING SPECIFICATION ON DRAWING C7.12.
9. FINAL SITE CONTOURS SHALL BE SIMILAR TO EXISTING CONTOURS. SITE SHALL DRAIN OVERLAND TO PIPED STORM WATER SYSTEM AND SHEET FLOW TO OAK ROAD.
10. DUST CONTROL SHALL BE PROVIDED BY A WATER BUFFALO, A TRAILER MOUNTED PUMP AND TANK.
11. LIDAR TOPOGRAPHIC DATA TAKEN FROM NRCS WEBSITE.

ENGINEERS CERTIFICATION

I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000.

EXISTING SITE LEGEND

	WATER LINE W/ VALVE
	WATER LINE
	SANITARY SEWER LINE
	POWER LINE (OVERHEAD)
	POWER LINE (UNDERGROUND)
	TELEPHONE LINE (UNDERGROUND)
	GAS LINE (UNDERGROUND)
	FENCE
	MAJOR CONTOUR
	MINOR CONTOUR
	LIMITS OF DISTURBANCE
	LIGHT POLE
	EXISTING TREES TO REMAIN
	SILT FENCE
	CONSTRUCTION ENTRANCE
	SEEDLING TUBE
	TEMPORARY AND PERMANENT SEEDING



Appendix V

Inspection Log and Reports

SWPPP Inspection Log			
Name of Construction Site		Location of Construction Site	
Date of Inspection	Inspector Name	Does Inspection Report require maintenance of installed BMPs?	
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No

<i>SWPPP Inspection Log (Continued)</i>			
Date of Inspection	Inspector Name	Does Inspection Report require maintenance of installed BMPs?	
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No

Appendix VI

Rainfall Log and Reports

SWPPP Rainfall Records (January - June)										Year:	
January	Rainfall	February	Rainfall	March	Rainfall	April	Rainfall	May	Rainfall	June	Rainfall
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	
8		8		8		8		8		8	
9		9		9		9		9		9	
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11		11		11		11		11		11	
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16		16		16		16		16		16	
17		17		17		17		17		17	
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21		21		21		21		21		21	
22		22		22		22		22		22	
23		23		23		23		23		23	
24		24		24		24		24		24	
25		25		25		25		25		25	
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30				30		30		30		30	
31				31				31			

SWPPP Rainfall Records (July - December)										Year:	
July	Rainfall	August	Rainfall	September	Rainfall	October	Rainfall	November	Rainfall	December	Rainfall
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	
8		8		8		8		8		8	
9		9		9		9		9		9	
10		10		10		10		10		10	
11		11		11		11		11		11	
12		12		12		12		12		12	
13		13		13		13		13		13	
14		14		14		14		14		14	
15		15		15		15		15		15	
16		16		16		16		16		16	
17		17		17		17		17		17	
18		18		18		18		18		18	
19		19		19		19		19		19	
20		20		20		20		20		20	
21		21		21		21		21		21	
22		22		22		22		22		22	
23		23		23		23		23		23	
24		24		24		24		24		24	
25		25		25		25		25		25	
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30		30		30		30		30		30	
31		31				31				31	

Appendix VII

Additional Site Logs and Records

SWPPP Modification Log			
Name of Construction Site		Location of Construction Site	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	

SWPPP Modification Log (Continued)

Name of Construction Site		Location of Construction Site	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	
Type of Modification		Description of Modification	Location of Modification
<input type="checkbox"/> Major <input type="checkbox"/> Minor			
Start Date:			
Completion Date:			
Reason for Modifications:		Approved/Implemented By:	

SWPPP Soil Stabilization Log			
Name of Construction Site		Location of Construction Site	
Type of Stabilization <input type="checkbox"/> Final <input type="checkbox"/> Temporary		Description of Stabilization	Location of Stabilization
Initiate Date: <input type="text"/>			
Completion Date: <input type="text"/>			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	
Type of Stabilization <input type="checkbox"/> Final <input type="checkbox"/> Temporary		Description of Stabilization	Location of Stabilization
Initiate Date: <input type="text"/>			
Completion Date: <input type="text"/>			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	
Type of Stabilization <input type="checkbox"/> Final <input type="checkbox"/> Temporary		Description of Stabilization	Location of Stabilization
Initiate Date: <input type="text"/>			
Completion Date: <input type="text"/>			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	
Type of Stabilization <input type="checkbox"/> Final <input type="checkbox"/> Temporary		Description of Stabilization	Location of Stabilization
Initiate Date: <input type="text"/>			
Completion Date: <input type="text"/>			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	
Type of Stabilization <input type="checkbox"/> Final <input type="checkbox"/> Temporary		Description of Stabilization	Location of Stabilization
Initiate Date: <input type="text"/>			
Completion Date: <input type="text"/>			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	
Type of Stabilization <input type="checkbox"/> Final <input type="checkbox"/> Temporary		Description of Stabilization	Location of Stabilization
Initiate Date: <input type="text"/>			
Completion Date: <input type="text"/>			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	

SWPPP Soil Stabilization Log (Continued)

Name of Construction Site		Location of Construction Site	

Type of Stabilization		Description of Stabilization	Location of Stabilization
<input type="checkbox"/> Final <input type="checkbox"/> Temporary			
Initiate Date:			
Completion Date:			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	

Type of Stabilization		Description of Stabilization	Location of Stabilization
<input type="checkbox"/> Final <input type="checkbox"/> Temporary			
Initiate Date:			
Completion Date:			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	

Type of Stabilization		Description of Stabilization	Location of Stabilization
<input type="checkbox"/> Final <input type="checkbox"/> Temporary			
Initiate Date:			
Completion Date:			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	

Type of Stabilization		Description of Stabilization	Location of Stabilization
<input type="checkbox"/> Final <input type="checkbox"/> Temporary			
Initiate Date:			
Completion Date:			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	

Type of Stabilization		Description of Stabilization	Location of Stabilization
<input type="checkbox"/> Final <input type="checkbox"/> Temporary			
Initiate Date:			
Completion Date:			
Additional work proposed for this area:		Inspection Frequency for Stabilized Area:	

Appendix VIII

Construction General Permit SCR100000

A copy of the NPDES General Permit for Stormwater Discharges from Construction Activities (SCR100000) can be found at the following address:

https://scdhec.gov/sites/default/files/media/document/BOW_NPDESStormwaterDischargesGP_01292021_0.pdf

Notice of Intent (NOI)

For coverage(s) of Primary Permittees under City of Columbia Code of Ordinances and/or SC NPDES General Permit for Stormwater Discharges From Construction Activities SCR100000

This section for official use only	
City of Columbia Permit Approval	NPDES Coverage (DHEC)
Land Disturbance Permit (LD) #	
Land Disturbance Plan (LDP) #	
City File (CF) #	
State File #	
Permit Number (SCR10...)	
Submittal Package Complete	
<p>Submission of this NOI constitutes notice that the Applicant identified in Section II intends to be authorized as a Primary Permittee in the State of South Carolina under NPDES General Permit SCR100000. City of Columbia fees required for review and NPDES coverage of each application type are located on Fee Schedule (available at http://www.columbiasc.net/stormwater/regulatory-programs/construction-permitting#docs). In addition, \$125 NPDES coverage payment must be made directly to DHEC (Note: the City no longer accepts NPDES coverage payments for forwarding to DHEC).</p>	

General Information	
Date	
Project/Site Name	
County	
Prior NPDES Permit Number, File Number and Submittal Date (Provide only if submitting for Modification or Change of Information)	
Is this project located in a City of Columbia Stormwater Special Protection Area?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is it expected that the City of Columbia will be accepting easements to own/operate any portion of the stormwater system associated with this development?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Notice of Intent (NOI)

For coverage(s) of Primary Permittees under City of Columbia Code of Ordinances and/or SC NPDES General Permit for Stormwater Discharges From Construction Activities SCR100000

Section I. NOI Application Type(s)

A. Permit (Application/Review) Type(s) – Select all that apply

- ☐ New Project (Initial Notification)
- ☐ Ongoing Project
 - ☐ Permitted; or
 - ☐ Unpermitted
- ☐ Late Notification
- ☐ Low Impact Development (LID) or Project Design Above Regulatory Requirements
- ☐ New Owner/Operator or Company Name Change (see instructions, attach DHEC Form A: Transfer of Ownership)
- ☐ Major Modification (see instructions, attach DHEC Form B: Major Modification)
- ☐ Change of Information/Other
 Specify:

B. If applicable, identify the following:

MS4 Operator	City of Columbia
MS4 Reviewer	

Section II. Primary Permittee Information

Change of Information?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the Primary Permittee a Person or Company?	<input type="checkbox"/> Person <input type="checkbox"/> Company
For Company, make a selection:	<input type="checkbox"/> Lending Institution <input type="checkbox"/> Government Entity <input type="checkbox"/> Neither
For Company, provide EIN (if applicable)	
A. Primary Permittee Name	
Mailing Address (Street and Number)	
City	
State	
Zip Code	
Phone	
Email	
B. Contact/ODSA Name (if different from above, or if owner is a Company)	
Mailing Address (Street and Number)	
City	
State	
Zip Code	
Phone	
Email	
C. Property Owner Name (if different from above)	
Mailing Address (Street and Number)	
City	

Notice of Intent (NOI)

For coverage(s) of Primary Permittees under City of Columbia Code of Ordinances and/or SC NPDES General Permit for Stormwater Discharges From Construction Activities SCR100000

Section II. Primary Permittee Information	
State	
Zip Code	
Phone	
Email	
Note: At least one valid email address must be provided to facilitate paperless communication	

Section III. C-SWPPP Preparer Information	
Change of Information?	<input type="checkbox"/> Yes <input type="checkbox"/> No
A. C-SWPPP Preparer Name	
B. Registered Professional...	<input type="checkbox"/> Engineer <input type="checkbox"/> Landscape Architect <input type="checkbox"/> Tier B Land Surveyor
SC Registration Number	
C. Company/Firm Name	
SC COA #	
Mailing Address (Street and Number)	
City	
State	
Zip Code	
Phone	
Email	

Section IV. Project/Site Information	
Change of Information?	<input type="checkbox"/> Yes <input type="checkbox"/> No
A. Type of Construction Activity(ies) – Select all that apply	
<input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Institutional <input type="checkbox"/> Mass Grading <input type="checkbox"/> Linear <input type="checkbox"/> Utility/Infrastructure <input type="checkbox"/> Residential, Single Family <input type="checkbox"/> Residential, Multi-Family <input type="checkbox"/> Multi-use (Commercial & Residential) <input type="checkbox"/> Site Preparation (No New Impervious Area) <input type="checkbox"/> Other Specify:	
B. Site Street Address or Nearest Intersection	
City/Town (if in limits)	
Zip Code	
Latitude	
Longitude	
Lat/Long Source	

Notice of Intent (NOI)

For coverage(s) of Primary Permittees under City of Columbia Code of Ordinances and/or SC NPDES General Permit for Stormwater Discharges From Construction Activities SCR100000

Section IV. Project/Site Information	
Tax Map Number(s) – List all	
C. Is this site located on Indian Land?	<input type="checkbox"/> Yes <input type="checkbox"/> No
D. Proposed Start Date	
Proposed Completion Date	
E. Disturbed Area (nearest tenth of an acre)	
Total Area (acres)	
F. Increase in Impervious Area (Post-Development minus Pre-Development)	
G. Job Value of Grading & Site Work	
H. Modification Information (complete only if submitting for a Modification)	
Current (Approved) Disturbed Area	
Disturbed Area Change (Increase Only)	
Total Disturbed Area (After Change)	
I. Is this project part of a Larger Common Plan (LCP) for Development or Sale?	<input type="checkbox"/> Yes <input type="checkbox"/> No
LCP/Overall Development Name	
Is this the First Phase of the LCP?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Previous Permit/File Number	
Previous NPDES Coverage Number (SCR10...)	
J. Do any Flooding Problems exist downstream of or adjacent to this site?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes above, provide a detailed description of flooding problems and applicable floodway/flood zone information in the C-SWPPP	
K. Active Warning Notice, Notice to Comply or Notice of Violation for this site or LCP?	<input type="checkbox"/> Yes <input type="checkbox"/> No
L. In the space below, list relevant State and Federal Environmental Permits or Approvals applied for or obtained for this site (e.g. RCRA, USACE, Nationwide, etc.). If None, specify "None."	
M. Indicate any of the following Waivers/Variations/Exceptions being requested for this project.	
<input type="checkbox"/> Expedited Review (for projects disturbing less than 1 acre)	
<input type="checkbox"/> Permanent Water Quality Waiver	
<input type="checkbox"/> Channel Protection Waiver	
<input type="checkbox"/> Detention Waiver	

Notice of Intent (NOI)

For coverage(s) of Primary Permittees under City of Columbia Code of Ordinances and/or SC NPDES General Permit for Stormwater Discharges From Construction Activities SCR100000

Section IV. Project/Site Information	
<input type="checkbox"/> Small Construction Activity Waiver(s) from NPDES permitting? (If selected, identify which of the following is being requested)	
<input type="checkbox"/> Rainfall Erosivity Waiver	
<input type="checkbox"/> TMDL Waiver	
<input type="checkbox"/> Equivalent Analysis Waiver	

Section V. Waterbody Information (attach additional sheets as needed)	
Change of Information?	<input type="checkbox"/> Yes <input type="checkbox"/> No
A. Receiving Waterbody (RWB) Information – List the nearest and next nearest receiving waterbodies to which the site's stormwater discharges will drain. If stormwater discharges drain to multiple waterbodies, list all such waterbodies	
1. Nearest RWB Name	
Distance to Nearest RWB	
Classification of Nearest RWB	
2. Next Nearest RWB Name	
Distance to RWB	
Classification of RWB	
3. Other Waterbodies Name(s)	
Distance to Other Waterbodies	
Classification of Other Waterbodies	
B. Waters of the US/State Information – If "Yes" is selected for Impacts to any of the items below, attached documentation must describe each impact and activity, and show that all applicable permits/certifications (e.g. USACE Nationwide Permit, DHEC General Permit, etc.) have been applied for and/or obtained.	
1. Jurisdictional Wetlands Onsite?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Jurisdictional Wetlands Delineated/Identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Impacts to Jurisdictional Wetlands?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Amount of Impacts (in ac. or lf) – If None, Specify None	
2. Non-Jurisdictional Wetlands Onsite?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Non-Jurisdictional Wetlands Delineated/Identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Impacts to Non-Jurisdictional Wetlands?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Amount of Impacts (in ac. or lf) – If None, Specify None	

Notice of Intent (NOI)

For coverage(s) of Primary Permittees under City of Columbia Code of Ordinances and/or SC NPDES General Permit for Stormwater Discharges From Construction Activities SCR100000

Section V. Waterbody Information (attach additional sheets as needed)	
3. Other Waters Onsite?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Other Waters Delineated/Identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Impacts to Other Waters Wetlands?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Amount of Impacts (in ac. or lf) – If None, Specify None	
C. S.C. Navigable Waters (SCNW) Information – DHEC will address any issues related to State Navigable Waters Program under SC Regulation 19-450 during the review of the C-SWPPP for activities that will NOT require a 404 permit or a 401 certification.	
1. Are S.C. Navigable Waters on the site? If "No," skip to D. Waterbody Information.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Name of SCNW on the site	
3. Will construction activities cross over or occur in, under or thru SCNW? If "No," skip numbers 4 – 5 and proceed to D. Impaired Waterbodies Information	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Describe SCNW activities (e.g. road crossing, sub-aqueous utility line, temporary or permanent structures, etc.)	
5. Identify permits providing coverage of SCNW activities proposed for the site. For those that are not applicable, specify "N/A"	
a. DHEC General or Other DHEC Permit/ Certification Number	
Corresponding Covered SCNW Activity(ies)	
b. USACE 404 Permit or 401 Certification Number	
Corresponding Covered SCNW Activity(ies)	
c. SCNW Permit Number	
Date SCNW Permit Applied for or Issued	
Does this SCNW Permit correspond to all activities or just some activities?	<input type="checkbox"/> All Activities <input type="checkbox"/> Some Activities
If "Some Activities" selected above, describe. Otherwise, indicate "N/A"	
Note: If a SCNW Permit is required, but has not been applied for, provide an additional plan sheet that shows plan and profile views (drawn to scale) of the SCNW and associated activities. Include a description of all proposed activities on this plan.	

Notice of Intent (NOI)

For coverage(s) of Primary Permittees under City of Columbia Code of Ordinances and/or SC NPDES General Permit for Stormwater Discharges From Construction Activities SCR100000

Section V. Waterbody Information (attach additional sheets as needed)	
D. Impaired Waterbodies Information	
1. Name the Nearest DHEC Water Quality Monitoring Station(s) [WQMS] that receives stormwater from your construction site and/or thru an MS4.	
2. Name the Corresponding Waterbody(ies) for the WQMS	
3. Is the WQMS listed on the most current 303(d) list? If "No," skip to number 4	<input type="checkbox"/> Yes <input type="checkbox"/> No
List the pollutant(s) identified as "CAUSES" of the impairment	
Could any pollutants causing the impairment(s) be reasonably expected to be present in your site's construction stormwater discharges? If "No," skip to number 4	<input type="checkbox"/> Yes <input type="checkbox"/> No
List the "USE SUPPORT" impairment(s) affected by the pollutant(s) identified above.	
Will BMPs proposed for your project ensure the site's discharges will not contribute to or cause further WQS violations for the impairment(s) listed? Note: If the response to this question is "No," this site is not eligible for coverage under the CGP	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Has a TMDL(s) been developed for this WQMS? If "No," skip to Section VI. Signatures and Certifications.	<input type="checkbox"/> Yes <input type="checkbox"/> No
List the pollutant(s) identified as "CAUSES" or causing the impairment(s).	
Has the standard been "ATTAINED" or "Fully Supported" for the impairment(s)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If "No" above (not Attained), could any pollutants causing the impairment(s) be reasonably expected to be present in your site's construction stormwater discharges?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If "Yes" above (pollutants may be reasonably expected in discharges), are the expected discharges consistent with the assumptions and requirements of the TMDL(s)? Note: If the response to this question is "No," this site is not eligible for coverage under the CGP	<input type="checkbox"/> Yes <input type="checkbox"/> No

Notice of Intent (NOI)

For coverage(s) of Primary Permittees under City of Columbia Code of Ordinances and/or SC NPDES General Permit for Stormwater Discharges From Construction Activities SCR100000

Section VI. Signatures and Certifications

Read the Certifications below (in entirety). Provide date, printed name and signatures below. Do not sign in black ink

If you are a New Owner/Operator, as Primary Permittee you must also sign and date the applicable C-SWPPP Acceptance & Compliance Agreement below

C-SWPPP Preparer: "One copy of the C-SWPPP, all specifications and supporting calculations, forms, and reports are herewith submitted and made a part of this application. I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000." (This should be the person identified in Section III)

Printed Name of C-SWPPP Preparer

Signature of C-SWPPP Preparer

Thomas P. Creel

SC Registration Number

Primary Permittee: "I or I (on behalf of my company and its contractors and agents), as the case may be, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons 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 understand that City of Columbia and/or DHEC enforcement actions may be taken if the terms and conditions of the C-SWPPP are not met and I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

"I or I (on behalf of my company and its contractors and agents), as the case may be, also hereby certify that all land-disturbing construction and associated activity pertaining to this site shall be accomplished pursuant to and in keeping with the terms and conditions of the approved plans and SCR100000. I also certify that a responsible person will be assigned to the project for day-to-day control. I hereby grant authorization to the SC Department of Health and Environmental Control (DHEC) and/or the City of Columbia the right of access to the site at all times for the purpose of onsite inspections during the course of construction and to perform maintenance inspections following the completion of land-disturbing activity." (See Section 122.22 of SC Reg. 61-9 for signatory authority information.) Having understood the above information, I am signing this certification as Primary Permittee to the aforementioned NPDES general permit."

Printed Name of Primary Permittee

Title/Position of Primary Permittee

Signature of Primary Permittee

David R Carver

Date Signed

City of Columbia (City) Code of Ordinances Section 21-43 requires a Land Disturbance Permit for all construction activities, or Larger Common Plan (LCP), that result in land disturbance equal to or greater than 5,000 square feet. The South Carolina Department of Health and Environmental Control (DHEC) NPDES General Permit for Stormwater Discharges from Construction Activities, more commonly referred to as the Construction General Permit (CGP), requires a Land Disturbance Permit for all construction activities (or LCP) with disturbed area equal to or greater than 1 acre.

City land disturbance permits for sites that are not subject to CGP coverage (5,000 sq. ft. ≤ land disturbance < 1 acre) may submit for an expedited land disturbance review. To submit for expedited review, this form must be completed and submitted along with all the specified documentation.

Sites approved through the expedited review process will not be scheduled for monthly sediment and erosion control inspections by City staff. The \$50 per month inspection fee is also waived for these sites. However, the City must still be notified at least 48 hours prior to the commencement of land disturbance, and a Notice of Termination (NOT) must be approved by the City prior to closure of the permit.

If any of the following apply, the site will generally be considered ineligible for expedited review:

1. The site is located in a designated Stormwater Special Protection Area which limits or prohibits eligibility for expedited review
2. Waterways or wetlands jurisdictional to the US Army Corps of Engineers are located onsite or contiguous to the site

At the sole discretion of the City, any site may be denied the right to approval through expedited review. The City may also, at its sole discretion, initiate regular monthly inspections by City staff, even if the site was permitted through expedited review. In such a case, the site will be subject to the \$50 monthly inspection fees, per the Code of Ordinances, for the timeframe in which the inspections were conducted.

The following must be submitted along with this form:

- ☐ A completed Application Form (Notice of Intent)
- ☐ One hard copy set of plans
- ☐ One hard copy of the Stormwater Pollution Prevention Plan (SWPPP)
- ☐ One hard copy of the supporting documentation (calculations, etc.)
- ☐ One disk (CD or DVD) containing a pdf electronic copy of all plans, SWPPP and supporting documentation (must match hard copies, including stamps, signatures, etc.)

CERTIFICATION SECTION I: To be completed by a South Carolina Registered Professional Engineer (PE)

- A. One copy of the site land disturbance plans, all specifications, SWPPP and supporting calculations, forms, and reports are herewith submitted and made a part of this application. I have placed my signature and seal on the design documents submitted



Expedited Land Disturbance Review

signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with all applicable federal, state and local land disturbance requirements.

- B. Is this site located in a designated Stormwater Special Protection Area which limits or prohibits eligibility for expedited review?

- ☐ Yes
☐ No

- C. Are waterways or wetlands jurisdictional to the US Army Corps of Engineers located onsite or contiguous to the site

- ☐ Yes
☐ No Unnamed tributary is approx. 3,000 feet from demolition site.

- D. Choose one of the following:

- ☐ I certify to the best of my knowledge and belief that post-development stormwater discharges from the property, as designed, will not exceed those present prior to development in any direction or at any location
- ☐ The post-development stormwater discharges from the property, as designed, will in at least one direction or location, exceed those present prior to development. I certify that, to the best of my knowledge and belief, the increased flows will not have a significant adverse impact on downstream/adjacent properties, the City of Columbia MS4, or Waters of the State.

Francis P. Creel

Signature of Engineer

Printed Name of Engineer

Date

CERTIFICATION SECTION II: To be completed by the Primary Permittee

- A. I, or I on behalf of my company and its contractors and agents, as the case may be, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons 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.
- B. I understand that City of Columbia and/or DHEC enforcement actions may be taken if the terms and conditions of the SWPPP are not met and I am aware that there are



Expedited Land Disturbance Review

significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- C. I, or I on behalf of my company and its contractors and agents, as the case may be, also hereby certify that all land-disturbing construction and associated activity pertaining to this site shall be accomplished pursuant to and in keeping with the terms and conditions of the approved plans and all applicable federal, state and local land disturbance requirements. I also certify that a responsible person will be assigned to the project for day-to-day control. Having understood the above information, I am signing this certification as Primary Permittee to the aforementioned land disturbance permit.
- D. I understand that, at the sole discretion of the City, any site may be denied the right to approval through expedited review. The City may also, at its sole discretion, initiate regular monthly inspections by City staff, even if the site was permitted through expedited review. In such a case, the site will be subject to the \$50 monthly inspection fees, per the Code of Ordinances, for the timeframe in which the inspections were conducted.

David R Carver

Signature of Primary Permittee

Printed Name of Primary Permittee

Date

CITY APPROVAL SECTION: To be completed by a City of Columbia Stormwater Reviewer

Approval Signature of City
Stormwater Reviewer

Printed Name of City Stormwater
Reviewer

Date

Appendix II

Asbestos and Lead-Based Paint Report Notice Of Intent/Approvals



Asbestos & Lead-Based Paint
Assessment Report
CFSH – Building 15
7901 Farrow Road
Columbia, South Carolina
S&ME Project No. 4261-20-015

PREPARED FOR:

**South Carolina Department of Mental Health
Physical Plant Services
7901 Farrow Road, Building 4
Columbia, SC 29203**

PREPARED BY:

**S&ME, Inc.
134 Suber Road
Columbia, SC 29210
(803) 561-9024**

ASSESSMENT PERFORMED BY:

**Travis Knight, CHMM, CIEC & Bobby McAllister
SCDHEC Lic. #BI-00885 & BI-01429
Assessment date: February 7, 2020 & May 15, 2020**

May 27, 2020



May 27, 2020

South Carolina Department of Mental Health
Physical Plant Services
7901 Farrow Road, Building 4
Columbia, South Carolina 29203

Attention: Mr. Ray Nanney
ray.nanney@scdmh.org

Reference: **Asbestos & Lead-Based Paint Assessment**
CFSH – Building 15
7901 Farrow Road
Columbia, South Carolina
S&ME Project No. 4261-20-015

Dear Mr. Nanney;

S&ME, Inc. (S&ME) is pleased to provide the enclosed report detailing our asbestos and lead-based paint assessment at the referenced site. The purpose of the assessment was to identify, to the extent feasible, potential asbestos-containing materials (ACMs) and lead-based paint (LBP) associated with Building 15 and associated cooling tower located at the South Carolina Department of Mental Health (SCDMH) Crafts Farrow State Hospital (CFSH) campus located at 7901 Farrow Road in Columbia, South Carolina. Our services were performed in general accordance with S&ME Proposal 42-1901340, dated December 4, 2019, and Indefinite Quantity Contract between SCDMH and S&ME dated October 14, 2019.

This report is provided for the use of the client. Use of this report by any other parties will be at such party's sole risk and S&ME, Inc. disclaims liability for any such use or reliance by third parties. The results presented in this report are indicative of conditions only during the time of the assessment and of the specific areas referenced.

We appreciate the opportunity to provide you with our industrial hygiene/environmental services. If you have any questions concerning this report, please call us at (803) 561-9024.

Sincerely,

S&ME, Inc.

A handwritten signature in black ink, appearing to read 'Travis Knight'.

Travis Knight, CHMM, CIEC
Project Manager
(SCDHEC Lic. No. BI-00885)

A handwritten signature in black ink, appearing to read 'Tom Behnke'.

Tom Behnke, P.G., CHMM
Environmental Services Manager
(SCDHEC Lic. No. MP-0004)



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Appendix IV – Asbestos Bulk Sample Analysis Sheets and Chain of Custody Record

Appendix V – Copy of SCDHEC Inspectors’ Licenses



◆ Executive Summary

S&ME conducted an asbestos and lead-based paint assessment of Building 15 and associated cooling tower located at the South Carolina Department of Mental Health (SCDMH) Crafts Farrow State Hospital (CFSH) campus located at 7901 Farrow Road in Columbia, South Carolina on February 7, 2020. The basement was subsequently assessed on May 15, 2020. The subject building is a single-story brick structure with a basement and a pitched shingle roof. Building 15 was constructed in 1943 and contains approximately 13,589 square feet of space. The purpose of the assessment was to identify asbestos-containing materials (ACMs) and lead-based paint coatings associated with the building and associated cooling tower prior to demolition or renovation activities. The subject building has been vacant for many years was vacant at the time of the assessment.

Asbestos

The asbestos assessment was performed in general accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) Regulation 61-86.1, *Standards of Performance for Asbestos Projects* effective May 27, 2011 and with the National Emission Standards for Hazardous Air Pollutants (NESHAP) and the Asbestos Hazard Emergency Response Act (AHERA). The purpose of the assessment was to identify the presence and quantity of ACMs associated with the building prior to demolition activities.

The asbestos assessment included the bulk sampling and analysis of suspect ACMs from the building and associated cooling tower. The suspect materials identified consist of asphalt shingles, two layers of felt paper silver paint, exterior window glazing, pipe wrap, hard joint insulation, black mastic, plaster, ceiling tiles, gray sink coating, drywall and associated joint compound, yellow duct mastic, brown baseboard mastic, and black pipe wrap.

The Environmental Protection Agency (EPA) and SCDHEC define materials as asbestos-containing if an asbestos content of greater than one percent (>1%) is detected in a representative sample. *Asbestos, in concentrations greater than one percent, was identified as a result of the assessment.* Below is a summary of ACMs identified in the structure:

Table E-1 ACM Summary

Material	¹ Material Location	² Type	Asbestos Type & Percent	³ Condition	⁴ Approx. Quantity
Asphalt shingles	Roof	Misc.	Chrysotile 2%	Good, NF	13,589 SF
Silver paint	Cooling tower	Misc.	Chrysotile 3%	Good, NF	100 SF

Asbestos & Lead-Based Paint Assessment**CFSH – Building 15**

Columbia, South Carolina

S&ME Project No. 4261-20-015



Material	¹ Material Location	² Type	Asbestos Type & Percent	³ Condition	⁴ Approx. Quantity
Window glazing	Exterior windows	Misc.	Chrysotile 2%	Damaged, F	2,600 LF
Pipe wrap	Pipe wrap on sulfur rock insulation – cooling tower	Misc.	Chrysotile 6%	Good, NF	20 LF
Black mastic	Between sulfur rock insulation joints – cooling tower	Misc.	Chrysotile 4%	Good, NF	20 LF
Gray sink coating	Single sink south end	Misc.	Chrysotile 4%	Good, NF	1 sink
Hard Joint Insulation	Basement (over sulfur rock)	TSI	Chrysotile 2%	Good, F	20 Hard joints
⁵ Yellow duct mastic	HVAC system throughout	Misc.	Chrysotile 5%	Good, NF	> 1,000 LF
⁵ Black pipe mastic	Throughout building above ceiling and in pipe chases	Misc.	Chrysotile 5%	Good, NF	> 1,000 LF

NF = Non-friable F = Friable SF = Square feet LF = Linear feet

¹Refer to Appendix I for specific sample locations.²Type: Misc. = Miscellaneous Surf. = Surfacing TSI = Thermal System Insulation³Cond = Condition: Good, Damaged or Significantly Damaged⁴Quantities are approximate and should not be used for cost estimates or bidding purposes.⁵The complete removal of the ceiling grid is needed for the quantification of the pipe mastic and HVAC duct mastic.

Both layers of the roofing felt was reported to contain less than one percent of asbestos. A material with an asbestos content less than or equal to one percent is not classified as an ACM applicable to EPA and SCDHEC; however, trace levels of asbestos (less than one percent) in a material is subject to OSHA regulatory requirements in 29 CFR 1926.1101, to include, but not limited to, worker protection, using wet methods, proper clean-up, use of proper tools/equipment, engineering controls, etc.

Lead-Based Paint

Painted surfaces throughout the interior and exterior of the subject building and associated cooling tower were considered suspect and analyzed for lead content. The coated surfaces exceeding the SCDHEC disposal criteria of 0.7 milligrams per square centimeter (mg/cm²) were considered lead-based paint for the purpose of this assessment. The below tested surface exceeded the 0.7 mg/cm² threshold.

Asbestos & Lead-Based Paint Assessment

CFSH – Building 15

Columbia, South Carolina

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- White fascia board on exterior of building.

This summary is for convenience only and should not be relied upon without first reading the full contents of this report, including appended materials.



1.0 Introduction

South Carolina Department of Mental Health (SCDMH) retained S&ME to conduct an asbestos and lead-based paint assessment of Building 15 and associated cooling tower located at the South Carolina Department of Mental Health (SCDMH) Crafts Farrow State Hospital (CFSH) campus located at 7901 Farrow Road in Columbia, South Carolina. The assessment was performed by Travis Knight, CHMM, CIEC and Bobby McAllister of S&ME on February 7, 2020 and May 15, 2020. Mr. Knight and Mr. McAllister are Asbestos Building Inspectors licensed by the South Carolina Department of Health and Environmental Control (SCDHEC). Mr. Knight is an EPA certified Lead Risk Assessor. An Asbestos-Containing Material (ACM) is defined by State and Federal regulations as a building material containing greater than one percent (>1%) of one of the six asbestos minerals regulated by the Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA).

This asbestos and lead-based paint assessment was performed in general accordance with S&ME Proposal No. 42-1901340, dated December 4, 2019 and SCDHEC Regulation 61-86.1.

Demolition and renovation activities in public and commercial buildings are regulated by OSHA, EPA and SCDHEC. The EPA and SCDHEC require asbestos assessments, conducted by licensed individuals, prior to renovation and/or demolition projects. Code 40 of Federal Regulations Part 61, Subpart M, Final Rule, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and SCDHEC Regulation 61-86.1 require asbestos assessments, followed by the proper removal, and disposal of ACM that is affected by renovation or demolition. The identification of ACMs will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos. Identification of ACM is also required by OSHA 1926.1101. The EPA, OSHA and SCDHEC define ACM as materials containing greater than one (1) percent asbestos in a representative sample. However, OSHA also regulates materials containing less than or equal to one percent asbestos.

2.0 Asbestos Assessment

2.1 Purpose

The purpose of the asbestos assessment was to identify the presence and quantity of asbestos-containing materials associated with the building and associated cooling tower prior to demolition or renovation activities. The identification of ACMs will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos. Identification of ACMs also complies with Title 40 Code of the Federal Regulations, part 61, and State Regulation 61-86.1 enforced by the SCDHEC, along with Title 29 Code of Federal Regulations, part 1926 enforced by OSHA.

2.2 Site Description

The subject building is a single-story brick structure with a pitched shingle roof. Building 15 was constructed in 1943 and contains approximately 13,589 square feet of space. The building consists of a foyer, offices, and patient rooms and a basement containing mechanical equipment. A cooling tower is located beside the building. The building was vacant at the time of the site visit.



The following sections describe the assessment procedures used, results of the suspect ACMs sampled and analyzed, and conclusions and recommendations regarding the subject site as related to ACMs.

2.3 Investigative Procedures and Analysis

A visual assessment of the building and associated cool tower was performed to determine the homogeneous areas (HAs) of suspect ACMs. Based on EPA definitions used in the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR 763, an HA of suspect asbestos-containing building material has the same color and texture and is thought to be installed within the same timeframe. S&ME assessed the interior and exterior of the structure, including roofing materials for suspect ACMs, surfacing materials, and miscellaneous materials. Significant destructive investigative techniques and sampling were not performed as part of this assessment. Consequently, the possibility exists that suspect materials were not detected in inaccessible areas such as flooring overlays, pipe chases, locked rooms, or wall voids or in areas deemed unsafe to enter by the asbestos inspectors. If additional suspect materials are discovered during future renovation or demolition activities, bulk samples should be collected and analyzed for asbestos content.

Suspect surfacing materials consisted of plaster and joint compound associated with the wall systems. Additional suspect ACMs that were observed include asphalt shingles, two layers of felt paper silver paint, exterior window glazing, pipe wrap, black mastic, plaster, ceiling tiles, gray sink coating, drywall and associated joint compound, yellow duct mastic, brown baseboard mastic and black pipe wrap.

A sampling strategy was developed to provide representative samples of the suspect asbestos-containing materials in accordance with OSHA, SCDHEC and EPA. Bulk samples were then extracted from suspect ACMs, recorded on a chain of custody record and submitted to S&ME's in-house polarized light microscopy (PLM) lab in Charlotte, North Carolina for analysis. Non-friable, organically bound (NOB) samples that tested negative via PLM were submitted to EMSL Analytical's asbestos laboratory in Pineville, North Carolina for analysis via transmission electron microscopy (TEM).

Polarized Light Microscopy (PLM)

The suspect materials were analyzed by trained microscopists using PLM techniques coupled with dispersion staining in accordance with EPA Test Method Title 40 Code of Federal Regulations, Chapter I (1-1-87 edition), Part 763, Subpart F-APPENDIX A. This method identifies asbestos mineral fibers based on six optical characteristics: morphology, birefringence, refractive index, extinction angle, sign of elongation and dispersion staining colors. The laboratory analysis reports the specific type of asbestos identified (there are six asbestos minerals) and the percentage of asbestos present.

Transmission Electron Microscopy (TEM)

In accordance with SCDHEC Regulation 61-86.1, Transmission Electron Microscopy (TEM) confirmation analysis is required to be performed on one sample of any non-friable organically bound material (NOB) that tests negative via PLM analysis. The TEM analysis was performed using EPA 600 Method in accordance with ASTM E2356.

Both the PLM and the TEM laboratories are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology.



2.4 Assessment

Identified ACMs were assessed based on the observed condition (good, damaged or significantly damaged) and potential for disturbance. Identified ACMs were also categorized based on the EPA's NESHAP regulation categories. A friable ACM is classified as an ACM that can be crumbled to a powder by moderate hand pressure. A non-friable ACM is classified as either Category I or Category II non-friable ACM. Category I and Category II non-friable ACMs are distinguished from each other by their fiber release potential when damaged. Generally, Category I non-friable ACM, which by definition includes intact asbestos-containing roofing materials, gaskets, packing, and resilient floor coverings is less likely to become friable and release fibers in a damaged state. Category II non-friable ACM include all other non-friable ACMs excluding Category I that have a high probability of being rendered friable during removal activities or demolition. All friable ACM, Category I non-friable ACM that has become friable, Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations are considered to be a Regulated Asbestos-Containing Material (RACM).

2.5 Findings and Results

The asbestos assessment conducted on February 7, 2020 and May 15, 2020 included the quantification and random bulk sampling of various suspect asbestos-containing materials located on the interior and exterior of the subject building and associated cooling. Of the representative materials sampled and analyzed during this assessment, asbestos in concentrations > 1% was identified in the following materials summarized below.

Table 2-1 ACM Summary

Material	¹ Material Location	² Type	Asbestos Type & Percent	³ Condition	⁴ Approx. Quantity
Asphalt shingles	Roof	Misc.	Chrysotile 2%	Good, NF	13,589 SF
Silver paint	Cooling tower	Misc.	Chrysotile 3%	Good, NF	100 SF
Window glazing	Exterior windows	Misc.	Chrysotile 2%	Damaged, F	2,600 LF
Pipe wrap	Pipe wrap on sulfur rock insulation – cooling tower	Misc.	Chrysotile 6%	Good, NF	20 LF
Black mastic	Between sulfur rock insulation joints – cooling tower	Misc.	Chrysotile 4%	Good, NF	20 LF



Material	¹ Material Location	² Type	Asbestos Type & Percent	³ Condition	⁴ Approx. Quantity
Gray sink coating	Single sink south end	Misc.	Chrysotile 4%	Good, NF	1 sink
Hard Joint Insulation	Basement (over sulfur rock)	TSI	Chrysotile 2%	Good, F	20 Hard joints
⁵ Yellow duct mastic	HVAC system throughout	Misc.	Chrysotile 5%	Good, NF	>1,000 LF
⁵ Black pipe mastic	Throughout building above ceiling and in pipe chases	Misc.	Chrysotile 5%	Good, NF	>1,000 LF

NF = Non-friable F = Friable SF = Square feet LF = Linear feet

¹Refer to Appendix I for specific sample locations.

²Type: Misc. = Miscellaneous Surf. = Surfacing TSI = Thermal System Insulation

³Cond = Condition: Good, Damaged or Significantly Damaged

⁴Quantities are approximate and should not be used for cost estimates or bidding purposes.

⁵The complete removal of the ceiling grid is needed for the quantification of the pipe mastic and HVAC duct mastic.

Both layers of the roofing felt was reported to contain less than one percent of asbestos. A material with an asbestos content less than or equal to one percent is not classified as an ACM applicable to EPA and SCDHEC; however, trace levels of asbestos (less than one percent) in a material is subject to OSHA regulatory requirements in 29 CFR 1926.1101, to include, but not limited to, worker protection, using wet methods, proper clean-up, use of proper tools/equipment, engineering controls, etc.

In accordance with SCDHEC Regulation 61-86.1, TEM analysis was performed on one sample of each of the non-friable, organically-bound (NOB) materials that displayed a result of no asbestos detected or less than 1% asbestos via PLM analysis. NOBs consist of materials such as vinyl floor tiles, vinyl baseboards and mastics. Please refer to Table I-I in Appendix I for more detail regarding which samples of NOB materials were submitted for TEM analysis.

Photographs of site conditions are provided in Appendix II. The laboratory reports are provided in Appendix IV.

3.0 Lead-Based Paint Assessment

3.1 Investigative Procedures

The lead-based paint assessment was conducted for compliance with the SCDHEC limit of 0.7 milligrams (mg) of lead per square centimeter (cm²) of painted surface for lead-based paint coated waste. SCDHEC, Health Division



defines lead-based paint as a coating containing lead in quantities ≥ 0.7 mg/cm² (SCDHEC, Health Division definition #4-53-1320f). Any coated surfaces meeting or exceeding the SCDHEC limit of 0.7 mg/cm² were considered lead-based paint for the purpose of this assessment.

OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms of lead per cubic meter of air (30 µg/m³) during an eight-hour day and a permissible exposure level of fifty micrograms per cubic meter (50 µg/m³).

Representative covered building components and surfaces were analyzed utilizing a Niton XLP-300A X-Ray Fluorescence (XRF) spectrum analyzer (serial #95004). The suspect painted finishes were selected based on the color of the topcoat and the underlying paint layers and/or the substrate on which it was applied. The possibility exists that lead-based paint finishes are present in inaccessible areas not tested such as pipe chases, wall voids, etc.

Attached in Appendix III is a summary of the paint readings analyzed by the XRF spectrum lead analyzer. The XRF summary provides the sample numbers, sample location, component, substrate, paint color, condition, and results.

3.2 Findings and Results

Coated surfaces throughout the interior and exterior of subject building and associated cooling tower were tested for the presence of lead-based paint. Coated surfaces meeting or exceeding the SCDHEC limit of 0.7 milligrams of lead per square centimeter (0.7 mg/cm²) were considered lead-based paint for the purpose of this assessment. The below tested surface exceeded the 0.7 mg/cm².

- White fascia board on exterior of building (6.4 mg/cm²).

4.0 Conclusions and Recommendations

The asbestos and lead-based paint assessment conducted on Building 15 and the associated cooling tower located at the SCDMH CFSH campus located at 7901 Farrow Road in Columbia, South Carolina identified the presence of asbestos-containing materials and lead-based paint

4.1 Asbestos Conclusions

If additional suspect ACMs not included in this report are discovered and will be disturbed by renovation or demolition activities, bulk samples must be collected by a licensed asbestos inspector and analyzed for asbestos content, prior to disturbance of the suspect material(s). This report should be provided to the contractor(s) to assist with compliance with applicable State and Federal regulations.

S&ME recommends proper removal and disposal of the ACMs by a licensed asbestos abatement contractor, prior to activities that may disturb an ACM. State and Federal regulations should be carefully considered in order to verify compliance before any actions are initiated that may disturb an ACM. If additional suspect ACMs not included in this report are discovered and will be disturbed by the renovation/demolition activities, bulk samples



must be collected by a licensed asbestos inspector and analyzed for asbestos content, prior to disturbance of the suspect material(s).

Both layers of the roofing felt was reported to contain less than one percent of asbestos. A material with an asbestos content less than or equal to one percent is not classified as an ACM applicable to EPA and SCDHEC; however, trace levels of asbestos (less than one percent) in a material is subject to OSHA regulatory requirements in 29 CFR 1926.1101, to include, but not limited to, worker protection, using wet methods, proper clean-up, use of proper tools/equipment, engineering controls, etc.

Asbestos removal requires written notification to SCDHEC, specific removal procedures, proper transportation, and disposal per state and federal regulations. The identification and proper removal of ACM prior to demolition or renovation will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos. In accordance with SCDHEC Regulation 61-86.1, project air monitoring must be performed by a SCDHEC licensed air sampler in conjunction with the removal of regulated asbestos materials (e.g. friable materials or non-friable materials rendered friable) that exceed the classification of a Small Project or are not regulated exterior removals. SCDHEC also requires a written project design when 3,000 square feet (or greater) of regulated are to be removed.

4.2 Lead-Based Paint Conclusions

The following coating exceed the SCDHEC 0.7 mg/cm² limit for lead-based paint:

- White fascia board on exterior of building (6.4 mg/cm²).

The client is advised that OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. Consequently, the OSHA regulations governing worker protection for lead-based paint may apply to work practices including the disturbance of paint systems with detectable levels of lead. Destructive actions (sanding, burning, demolition, component removal, paint preparation) to the lead-containing paint surfaces will require the contractor comply with the standards of OSHA, including but not limited to initial exposure monitoring, the use of personal protective equipment, and medical surveillance.

SCDHEC Regulation 61-107.19 permits demolition materials painted with lead-based paint (≥ 0.7 mg/cm²) to be disposed in a permitted Class Two (C&D) or Class Three Subtitle D, Municipal Solid Waste (MSW) landfill.

Accumulations of paint waste (chips, dust, or flakes) must be tested by the Toxicity Characteristic Leaching Procedure (TCLP) to determine if the waste is classified as hazardous, which requires disposal in a Subtitle C (hazardous waste) landfill. Lead waste, at a minimum, must be disposed in a Class Two or Three landfill.

5.0 Limitations

This report is provided for the sole use of the Client. Use of this report by any other parties will be at such party's sole risk, and S&ME disclaims liability for any such use or reliance by third parties. The results presented in this report are indicative of conditions only during the time of the sampling period and of the specific areas



referenced. Under no circumstances is this report to be used as a bidding document, or as a project design or specification for removal of ACM.

S&ME performed the services in accordance with generally accepted practices of reputable environmental consultants undertaking similar studies at the same time and in the same geographical area. S&ME has endeavored to meet this standard of care. No other warranty, expressed or implied, is intended or made with respect to this report or S&ME's services. Users of this report should consider the scope and limitations related to these services when developing opinions as to risks associated with the site. Additional limitations to our survey are as follows:

- Significant destructive sampling was not performed during the asbestos assessment. Additional suspect ACMs may be present in inaccessible locations such as in wall voids, pipe chases or flooring overlays. Consequently, if additional suspect materials are discovered during future renovation or demolition activities, bulk samples must be collected and analyzed for asbestos content.
- Portions of the subject building are finished with a suspended ceiling. Our assessment included observations above the ceiling in random locations; however, the complete removal of the ceiling and grid would be necessary to account for any additional suspect ACMs that may be present.
- Asbestos duct and pipe mastic quantities cannot be verified without total removal of the ceiling systems.

Appendices

Appendix I – Summary of Asbestos Sampling

Summary of Asbestos Sampling

Project Name:	CFSH – Building 15	Project Number:	4261-20-015
Location:	Columbia, South Carolina	Sampling Date(s):	February 7, 2020

Table I-I Summary of Asbestos Sampling

HOMOGENEOUS AREA

SAMPLE DATA

HA Area	Material Description	Material Location	Quantity	¹ Cat (F/I/II)	² Type	³ Condition / Potential for Disturbance	Sample Number	Sample Location	Percent and Type Asbestos
SH	Asphalt shingles	Roof	13,589 SF	NF	Misc.	Good/Low	SH-1	Roof	2% Chrysotile
							SH-2	Roof	Positive Stop – Samples Not Analyzed
							⁴ SH-3	Roof	
FP1	Felt paper	Roof – 1 st layer	13,589 SF	NF	Misc.	Good/Low	FP-1	Roof – 1 st layer	NAD
							FP-2	Roof – 1 st layer	<1% Chrysotile
							⁴ FP-3	Roof – 1 st layer	NAD
FP2	Felt paper	Roof - 2 nd layer	13,589 SF	NF	Misc.	Good/Low	FP-4	Roof – 2 nd layer	NAD
							FP-5	Roof – 2 nd layer	NAD
							⁴ FP-6	Roof – 2 nd layer	0.16% Chrysotile
SS-1	Silver Paint	Cooling tower	100 SF	NF	Misc.	Good/Low	SS-1	Cooling tower	3% Chrysotile
							SS-2	Cooling tower	Positive Stop – Samples Not Analyzed
							⁴ SS-3	Cooling tower	
WG	Exterior window glazing	Exterior windows	2,600 LF	NF	Misc.	Damaged	WG-1	Exterior window	2% Chrysotile
							WG-2	Exterior window	Positive Stop – Samples Not Analyzed
							⁴ WG-3	Exterior window	

NAD = No Asbestos Detected

NA = Not Applicable

SF = Square feet

LF = Linear feet

CF = Cubic Feet

¹Category: F = Friable I = Category I, Non-Friable II = Category II, Non-Friable

²Type; Misc. = Miscellaneous Surf. = Surfacing TSI = Thermal System Insulation

³Condition: Good, Damaged or Significantly Damaged Accessible during renovation or demolition with Potential for Disturbance; Low or High

⁴Sample analyzed by TEM

⁵ The complete removal of the ceiling grid is needed for the quantification of the pipe mastic and HVAC duct mastic.

Quantities are approximate and should not be used for cost estimates or bidding purposes.

Summary of Asbestos Sampling

Project Name:	CFSH – Building 15	Project Number:	4261-20-015
Location:	Columbia, South Carolina	Sampling Date(s):	February 7, 2020

HOMOGENEOUS AREA

SAMPLE DATA

HA Area	Material Description	Material Location	Quantity	¹ Cat (F/I/II)	² Type	³ Condition / Potential for Disturbance	Sample Number	Sample Location	Percent and Type Asbestos
PW	Pipe Wrap	Pipe wrap on sulfur rock – cooling tower	20 LF	NF	Misc.	Good/Low	PW-1	Pipe wrap on sulfur rock - cooling tower	6% Chrysotile
							PW-2	Pipe wrap on sulfur rock - cooling tower	Positive Stop – Samples Not Analyzed
							⁴ PW-3	Pipe wrap on sulfur rock - cooling tower	
M	Black mastic	Between sulfur rock – cooling tower	20 LF	NF	Misc.	Good/Low	M-1	Between sulfur rock – cooling tower	4% Chrysotile
							M-2	Between sulfur rock – cooling tower	Positive Stop – Samples Not Analyzed
							⁴ M-3	Between sulfur rock – cooling tower	
PL	Plaster	Throughout	10,500 SF	NA	Surf.	NA/NA	PL-1	Southwest wall by exit	NAD
							PL-2	Southeast wall	NAD
							PL-3	Column south end building	NAD
							PL-4	Central portion east wall	NAD
							PL-5	Central portion west wall	NAD
							PL-6	West end column	NAD
							PL-7	Northwest wall by exit	NAD

NAD = No Asbestos Detected

NA = Not Applicable

SF = Square feet

LF = Linear feet

CF = Cubic Feet

¹Category: F = Friable I = Category I, Non-Friable II = Category II, Non-Friable

²Type; Misc. = Miscellaneous Surf. = Surfacing TSI = Thermal System Insulation

³Condition: Good, Damaged or Significantly Damaged Accessible during renovation or demolition with Potential for Disturbance; Low or High

⁴Sample analyzed by TEM

⁵ The complete removal of the ceiling grid is needed for the quantification of the pipe mastic and HVAC duct mastic.

Quantities are approximate and should not be used for cost estimates or bidding purposes.

Summary of Asbestos Sampling

Project Name:	CFSH – Building 15	Project Number:	4261-20-015
Location:	Columbia, South Carolina	Sampling Date(s):	February 7, 2020

HOMOGENEOUS AREA

SAMPLE DATA

HA Area	Material Description	Material Location	Quantity	¹ Cat (F/I/II)	² Type	³ Condition / Potential for Disturbance	Sample Number	Sample Location	Percent and Type Asbestos
CT	2x4 Ceiling tile	Throughout	13,589 SF	NA	Misc.	NA/NA	CT-1	South end	NAD
							CT-2	Central	NAD
							CT-3	North end	NAD
SC	Gray sink coating	Single sink south end	1 sink	NF	Misc.	Good/Low	SC-1	Single sink south end	4% Chrysotile
							SC-2	Single sink south end	Positive Stop – Samples Not Analyzed
							⁴ SC-3	Single sink south end	
DW	Drywall	Throughout	6,500 SF	NA	Misc.	NA/NA	DW-1	Central office wall	NAD
							DW-2	South side office wall	NAD
							DW-3	South side fire wall above ceiling	NAD
JC	Joint compound	Drywall system	6,500 SF	NA	Surf.	NA/NA	JC-1	North side office wall	NAD
							JC-2	South side office wall	NAD
							JC-3	South side firewall above ceiling	NAD
							JC-4	North side office wall	NAD
							JC-5	Central office wall	NAD
							JC-6	South side office wall	NAD
							JC-7	South side firewall above ceiling	NAD

NAD = No Asbestos Detected

NA = Not Applicable

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LF = Linear feet

CF = Cubic Feet

¹Category: F = Friable I = Category I, Non-Friable

II = Category II, Non-Friable

²Type: Misc. = Miscellaneous Surf. = Surfacing

TSI = Thermal System Insulation

³Condition: Good, Damaged or Significantly Damaged Accessible during renovation or demolition with Potential for Disturbance; Low or High

⁴Sample analyzed by TEM

⁵ The complete removal of the ceiling grid is needed for the quantification of the pipe mastic and HVAC duct mastic.

Quantities are approximate and should not be used for cost estimates or bidding purposes.

Summary of Asbestos Sampling

Project Name:	CFSH – Building 15	Project Number:	4261-20-015
Location:	Columbia, South Carolina	Sampling Date(s):	February 7, 2020

HOMOGENEOUS AREA

SAMPLE DATA

HA Area	Material Description	Material Location	Quantity	¹ Cat (F/I/II)	² Type	³ Condition / Potential for Disturbance	Sample Number	Sample Location	Percent and Type Asbestos
DM	⁵ Yellow duct mastic	HVAC system throughout	>1,000 LF	NF	Misc.	Good/Low	DM-1	South side	5% Chrysotile
							DM-3	Central	Positive Stop – Sample Not Analyzed
							⁴ DM-3	North side	
BBM	Brown baseboard mastic	North side building	250 LF	NA	Misc.	NA/NA	BBM-1	North side office	NAD
							BBM-2	North side office	NAD
							⁴ BBM-3	North side office	NAD
PM-1	⁵ Black pipe mastic	Throughout building above ceiling and in pipe chases	>1,000 LF	NF	Misc.	NA/NA	PM-1	South side above ceiling	5% Chrysotile
							PM-2	Central above ceiling	Positive Stop – Sample Not Analyzed
							⁴ PM-3	North side above ceiling	
PC	Pipe covering	Basement covering sulfur rock	65 LF	NA	Misc.	NA/NA	PC-1	Piping	NAD
							PC-2	Piping	NAD
							PC-3	Piping	NAD
HJ	Hard joint material	Covering sulfur rock	20 HJ	F	TSI	Good/Low	HJ-1	Hard joints	2% Chrysotile
							HJ-2	Hard joints	2% Chrysotile
							HJ-3	Hard joints	2% Chrysotile
F	Felt paper	Beneath sulfur rock	65 LF	NA	Misc.	NA/NA	F-1	Piping	NAD
							F-2	Piping	NAD
							⁴ F-3	Piping	NAD

NAD = No Asbestos Detected NA = Not Applicable SF = Square feet LF = Linear feet CF = Cubic Feet

¹Category: F = Friable I = Category I, Non-Friable II= Category II, Non-Friable

²Type; Misc. = Miscellaneous Surf. = Surfacing TSI = Thermal System Insulation

³Condition: Good, Damaged or Significantly Damaged Accessible during renovation or demolition with Potential for Disturbance; Low or High

⁴Sample analyzed by TEM

⁵ The complete removal of the ceiling grid is needed for the quantification of the pipe mastic and HVAC duct mastic.

Quantities are approximate and should not be used for cost estimates or bidding purposes.

Summary of Asbestos Sampling

Project Name:	CFSH – Building 15	Project Number:	4261-20-015
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TSI = Thermal System Insulation

³Condition: Good, Damaged or Significantly Damaged Accessible during renovation or demolition with Potential for Disturbance; Low or High

⁴Sample analyzed by TEM

⁵ The complete removal of the ceiling grid is needed for the quantification of the pipe mastic and HVAC duct mastic.

Quantities are approximate and should not be used for cost estimates or bidding purposes.

Abbreviations and Hazard Assessment Key

In accordance with the EPA and SCDHEC, a confirmed ACM is assigned a hazard assessment based on its present condition and potential for disturbance. The hazard assessment is used as a tool for prioritization in remedial actions regarding any identified ACM(s). The following key exhibits the criteria that compose the hazard assessment.

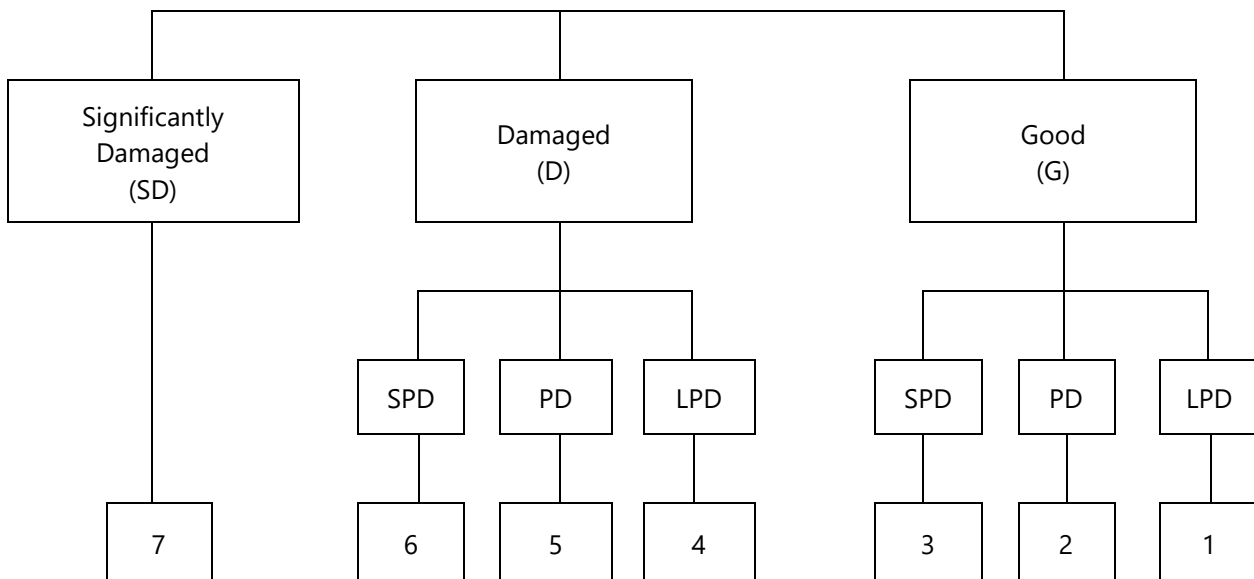
Present Condition

F = Friable
NF = Non-friable
G = Good (Very localized limited damage)
D = Damaged (Damage of less than 10% distributed and less than 25% localized)
SD = Significantly Damaged (Damage equal to or greater than 10% distributed, 25% localized)

Potential for Future Disturbance

LPD = Low Potential for Disturbance (Contact, Vibration, and Air Erosion all of Low Concern)
PD = Potential for Disturbance (Contact, Vibration, or Air Erosion of Moderate Concern)
SPD = Significant Potential for Disturbance (Contact, Vibration, or Air Erosion of High Concern)

Hazard Assessment



Appendix II – Photographs



1 General view of Building 15.



2 The asphalt shingles tested positive for asbestos (2% chrysotile).



3 The silver paint located on the cooling tower tested positive for asbestos (3% chrysotile).



4 The exterior window glazing tested positive for asbestos (2% chrysotile).





5 The pipe wrap on the sulfur rock insulation tested positive for asbestos (6% chrysotile).



6 The black mastic located between the joints of the sulfur rock insulation tested positive for asbestos (4% chrysotile).



7 The gray sink coating located on the south side of the building tested positive for asbestos (4% chrysotile).



8 The yellow duct mastic located on the HVAC ducts tested positive for asbestos (5% chrysotile).





9 The black pipe mastic located in the building tested positive for asbestos (5% chrysotile).



10 The white fascia board tested positive for lead-based paint (6.4 mg/cm²).



11 Typical interior view of the building.



12 The hard joint insulation over the sulfur rock insulation tested positive for asbestos (2% Chrysotile).



Appendix III – XRF Lead-Based Paint Reading Summary Table

XRF LEAD-BASED PAINT READING SUMMARY TABLE

Serial #95004
 PAINT
 Project No.: 4261-20-015
 Site: CFSH Building 15
 Date: February 7, 2020
 Ranges (NEG<INC<POS): Device PCS



Reading Number	Floor/Area	Room	Feature	Substrate	Condition	Color	Result	XRF Reading (mg/cm²)
24			Shutter					
25			Calibrate					0.90
26			Calibrate					1.00
27			Calibrate					0.90
28	Exterior	Rear	Window	Wood	Non-intact	White	Negative	0.12
29	Exterior	Rear	Fascia board	Wood	Non-intact	White	Positive	6.40
30	Exterior	Rear	Window	Wood	Non-intact	White	Negative	<LOD
31	Interior	Rear	Door	Wood	Non-intact	White	Negative	0.12
32	Interior	South side	Wall	Plaster	Non-intact	White	Negative	<LOD
33	Interior	South side	Door frame	Wood	Non-intact	Gray	Negative	<LOD
34	Interior	South side	Nurse station wall	Wood	Non-intact	White	Negative	<LOD
35	Interior	Restroom	Door	Wood	Intact	Gray	Negative	<LOD
36	Interior	Restroom	Wall	Ceramic	Non-intact	White	Negative	<LOD
37	Interior	South side	Door	Wood	Non-intact	Blue	Negative	<LOD
38	Interior	South side	Wall	Plaster	Non-intact	Pink	Negative	<LOD
39	Interior	South hallway	Window	Wood	Non-intact	White	Negative	0.18
40	Interior	South hallway	Wall	Plaster	Non-intact	White	Negative	<LOD
41	Interior	Central	Door	Wood	Non-intact	Blue	Negative	<LOD
42	Interior	Central	Wall	Plaster	Non-intact	White	Negative	<LOD
43	Interior	Central	Door	Wood	Non-intact	Blue	Negative	<LOD
44	Interior	Central	Door frame	Wood	Non-intact	Brown	Negative	0.17
45	Interior	Central	Window	Wood	Non-intact	White	Negative	<LOD
46	Interior	Central	Pipe	Metal	Intact	White	Negative	<LOD
47	Interior	Janitor closet	Shelf	Wood	Intact	White	Negative	<LOD
48	Interior	North side hall	Wall	Plaster	Non-intact	White	Negative	<LOD
49	Interior	North side hall	Door	Wood	Non-intact	Blue	Negative	<LOD
50	Interior	Open area	Pipe	Metal	Non-intact	White	Negative	<LOD
51	Interior	Open area	Door frame	Wood	Non-intact	Brown	Negative	0.13
52	Interior	Open area	Wall	Drywall	Intact	White	Negative	<LOD
53	Interior	Open area	Door frame	Wood	Intact	Gray	Negative	0.12
54	Interior	Open area	Door	Wood	Intact	White	Negative	<LOD
55	Interior	Open area	Wall	Plaster	Intact	White	Negative	<LOD
56			Post-Calibrate					1.00
57			Post-Calibrate					0.90
58			Post-Calibrate					1.00

Appendix IV – Asbestos Bulk Sample Analysis Sheets and Chain of Custody Record



9771D Southern Pine Boulevard
Charlotte, NC 28273
704-940-1830 Fax 704-565-4929
NVLAP Lab Code 102075-0

POLARIZED LIGHT MICROSCOPY

Performed by EPA 600/R-93/116 Method

Asbestos Analysis Summary

Client Name Columbia Branch

134 Suber Rd.
Columbia SC 29210

Date Received 2/10/2020

Client Job DMH Bldg 15

Date Analyzed 2/11/2020

Job Number 4261-20-015

Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
20-1791	SH-1	BLACK FIBROUS		2 CHRYSOTILE	25 CELLULOSE	73 OTHER
20-1794	FP-1	BLACK FIBROUS		ND	20 CELLULOSE	80 OTHER
20-1795	FP-2	BLACK FIBROUS		<1 CHRYSOTILE	20 CELLULOSE	80 OTHER
20-1797	FP-4	BLACK FIBROUS		ND	75 CELLULOSE	25 OTHER

Analyzed by: Jane Wasilewski

Additional Comments:

Jane Wasilewski
Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested. The sample may not be fully representative of the larger material in question. This sheet may not be reproduced except with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
20-1798	FP-5	BLACK FIBROUS		ND	75 CELLULOSE	25 OTHER
20-1800	SS-1	SILVER FIBROUS		3 CHRYSOTILE		97 OTHER
20-1803	WG-1	BEIGE NONFIBROUS		2 CHRYSOTILE		98 OTHER
20-1806	PW-1	SILVER/BLACK FIBROUS		6 CHRYSOTILE	10 GLASS	84 OTHER
20-1809	M-1	BLACK FIBROUS		4 CHRYSOTILE		96 OTHER
20-1812A	PL-01	WHITE NONFIBROUS	SKIM COAT	ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments:

Jane Wasilewski
Laboratory Manager

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Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
20-1812B	PL-01	GREY GRANULAR	PLASTER	ND		100 OTHER
20-1813	PL-02	GREY GRANULAR	PLASTER (ONLY)	ND		100 OTHER
20-1814	PL-03	GREY GRANULAR	PLASTER (ONLY)	ND		100 OTHER
20-1815	PL-04	GREY GRANULAR	PLASTER (ONLY)	ND		100 OTHER
20-1816	PL-05	GREY GRANULAR	PLASTER (ONLY)	ND		100 OTHER
20-1817	PL-06	GREY GRANULAR	PLASTER (ONLY)	ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments:


Jane Wasilewski
Laboratory Manager

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Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
20-1818	PL-07	GREY GRANULAR	PLASTER (ONLY)	ND		100 OTHER
20-1819	CT-1	GREY FIBROUS		ND	85 MINERAL WOOL 15 CELLULOSE	
20-1820	CT-2	GREY FIBROUS		ND	85 MINERAL WOOL 15 CELLULOSE	
20-1821	CT-3	GREY FIBROUS		ND	85 MINERAL WOOL 15 CELLULOSE	
20-1822	SC-1	GREY FIBROUS		4 CHRYSOTILE		96 OTHER
20-1825	DW-1	BEIGE FIBROUS		ND	2 GLASS	98 GYPSUM


Analyzed by: Jane Wasilewski

Additional Comments:


Jane Wasilewski
Laboratory Manager

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Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
20-1826	DW-2	TAN/BEIGE FIBROUS		ND	10 CELLULOSE 2 GLASS	88 GYPSUM
20-1827	DW-3	TAN/BEIGE FIBROUS		ND	5 CELLULOSE 2 GLASS	93 GYPSUM
20-1828	JC-1	WHITE NONFIBROUS		ND		100 OTHER
20-1829	JC-2	WHITE NONFIBROUS		ND		100 OTHER
20-1830	JC-3	WHITE NONFIBROUS		ND		100 OTHER
20-1831	JC-4	WHITE NONFIBROUS		ND		100 OTHER

Analyzed by: Jane Wasilewski

Additional Comments:

Jane Wasilewski
Laboratory Manager

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Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
20-1832	JC-5	WHITE NONFIBROUS		ND		100 OTHER
20-1833	JC-6	WHITE NONFIBROUS		ND		100 OTHER
20-1834	JC-7	WHITE NONFIBROUS		ND		100 OTHER
20-1835	DM-1	YELLOW PLIABLE		5 CHRYSOTILE		95 OTHER
20-1838	BBM-1	BROWN NONFIBROUS		ND	1 FIBROUS TALC	99 OTHER
20-1839	BBM-2	BROWN NONFIBROUS		ND	1 FIBROUS TALC	99 OTHER

Analyzed by: Jane Wasilewski

Additional Comments:

Jane Wasilewski
Laboratory Manager


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Job Number 4261-20-015

<i>Lab ID:</i>	<i>Sample #:</i>	<i>Appearance</i>	<i>Comments</i>	<i>Asbestos %/Type</i>	<i>Non-Asbestos Fibrous %/Type</i>	<i>Non-Fibrous %/Type</i>
20-1841	PM-1	BLACK FIBROUS		5 CHRYSOTILE		95 OTHER


Analyzed by: Jane Wasilewski

Additional Comments:


Jane Wasilewski
Laboratory Manager

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BULK SAMPLE

CHAIN OF CUSTODY RECORD



Requested Turn Around Time:			<input type="checkbox"/> Same Day
<input type="checkbox"/> 24-Hour	<input type="checkbox"/> 48-Hour	<input checked="" type="checkbox"/> 3 Day	<input type="checkbox"/> 6-10 Day

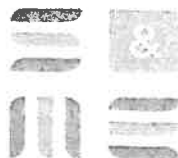
PROJECT NO. 4261-20-015		PROJECT NAME: DMH Bldg. 15		RELINQUISHED BY: <i>[Signature]</i>	DATE 2/7/20	TIME 1600
FACILITY Bldg. 15				RECEIVED BY: <i>[Signature]</i>	DATE 2/10/2020	TIME 1:10 pm
SAMPLER(S) TK/Bm		DATE TAKEN 2/7/20		RELINQUISHED BY:	DATE	TIME
RECEIVED BY:						

SAMPLE #	LAB NUMBER	MATERIAL	LOCATION	QUANTITY	COMMENTS / SPECIAL INSTRUCTIONS
SH-1	20-1791	Asphalt Shingle	Roof		NOB
2	92	↓	↓		
3	93				
FP-1	94	Felt Paper	Roof - 1 st Layer		NOB
2	95	↓	↓		
3	96				
FP-4	97	Felt Paper	Roof - 2 nd Layer		NOB
5	98	↓	↓		
6	1799				
SS-1	1800	Silver Paint	Cooling tower		NOB
2	01	↓	↓		
3	02				
WG-1	03	Ext. Window Glazing	Exterior Window	Damaged	NOB
2	04	↓	↓		
3	05				
PW-1	06	Pipe Wrap	Pipe wrap on Sulfur Rock - Cooling tower		NOB
2	07	↓	↓		
3	08				
M-1	09	Black Mastic	Between Sulfur Rock - Cooling tower		NOB
2	1810	↓	↓		
3	1811				

Positive Stop

BULK SAMPLE

CHAIN OF CUSTODY RECORD



Requested Turn Around Time:

☐ Same Day

☐ 24-Hour

☐ 48-Hour

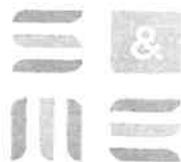
☒ 3 Day

☐ 6-10 Day

PROJECT NO. 4261-20-015		PROJECT NAME: DM4 Bldg. 15		RELINQUISHED BY: 		DATE: 2/7/20	TIME: 1600
FACILITY: Bldg. 15				RECEIVED BY: 		DATE: 2/10/20	TIME:
SAMPLER(S) 7C		DATE TAKEN 2/7/20		NOTES: Positive STOP			

SAMPLE #	LAB NUMBER	MATERIAL	LOCATION	QUANTITY	COMMENTS / SPECIAL INSTRUCTIONS
PL-1	20-1812	Plaster	South West wall by Exit		
2	13		South East Wall		
3	14		Column South end Bldg		
4	15		Central portion East wall		
5	16		Central portion West wall		
6	17		West end Column		
7	18		North West end by exit		
CT-1	19	2X4 Ceiling tile	South end		
2	20		Central		
3	21		North end		
SC-1	22	Grey single coating	single side south end		} NO.3
2	23				
3	24				
DW-1	25	Drywall	Central Office Wall		
2	26		S. Side Office Wall		
3	27		S. Side Firewall above ceiling		
JC-1	28	Joint Compound	N. Side Office Wall		
2	29		Central Office Wall		
3	30		S. Side Office Wall		
4	1831		S.A. DW-3		

CHAIN OF CUSTODY RECORD



Requested Turn Around Time:			<input type="checkbox"/> Same Day
<input type="checkbox"/> 24-Hour	<input type="checkbox"/> 48-Hour	<input checked="" type="checkbox"/> 3 Day	<input type="checkbox"/> 6-10 Day

[illegible]



9771D Southern Pine Boulevard
Charlotte, NC 28273
704-940-1830 Fax 704-565-4929
NVLAP Lab Code 102075-0

POLARIZED LIGHT MICROSCOPY

Performed by EPA 600/R-93/116 Method

Asbestos Analysis Summary

Client Name Columbia Office

134 Suber Rd.
Columbia SC 29210

Date Received 5/18/2020

Client Job DMH Bldg 15

Date Analyzed 5/19/2020

Job Number 4261-20-015

Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
20-7204	PC-1	BEIGE/TAN FIBROUS		ND	98 CELLULOSE	2 OTHER
20-7205	PC-2	ORANGE/TAN FIBROUS		ND	98 CELLULOSE	2 OTHER
20-7206	PC-3	GREEN/TAN FIBROUS		ND	98 CELLULOSE	2 OTHER
20-7207	HJ-1	GREY FIBROUS		2 CHRYSOTILE	45 MINERAL WOOL	53 OTHER

Analyzed by: Jane Wasilewski

Additional Comments:


Jane Wasilewski
Laboratory Manager

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Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
20-7208	HJ-2	GREY FIBROUS		2 CHRYSOTILE	45 MINERAL WOOL	53 OTHER
20-7209A	HJ-3	GREY FIBROUS	WRAP	ND	99 CELLULOSE	1 OTHER
20-7209B	HJ-3	GREY FIBROUS	INSULATION	2 CHRYSOTILE	45 MINERAL WOOL	53 OTHER
20-7210	F-1	BLACK FIBROUS		ND	80 CELLULOSE	20 OTHER
20-7211	F-2	BLACK FIBROUS		ND	80 CELLULOSE	20 OTHER


Analyzed by: Jane Wasilewski

Additional Comments:


Jane Wasilewski
Laboratory Manager

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CHAIN OF CUSTODY RECORD

[illegible]

6565
2045



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 412001409

Customer ID: SMEI54

Customer PO:

Project ID:

Attention: Jane Wasilewski
S&ME, Inc.
9771D Southern Pine Blvd.
Charlotte, NC 28273

Phone: (704) 940-1830

Fax: (704) 565-4929

Received Date: 02/12/2020 11:45 AM

Analysis Date: 02/14/2020

Collected Date:

Project: 4261-20-015

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
FP-3 412001409-0001	Felt	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FP-6 412001409-0002	Felt	Black Non-Fibrous Heterogeneous	99.84 Other	None	0.16% Chrysotile
BBM-3 412001409-0003	Mastic Only	Brown Non-Fibrous Heterogeneous	95.3 Other	4.7 Fibrous_Other	No Asbestos Detected

Analyst(s)

Aaron Hartley (3)

Lee Plumley, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 02/14/2020 17:40:48

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

412001409

EMSL ANALYTICAL, INC.
10801 SOUTHERN LOOP BLVD
PINEVILLE, NC 28134

PHONE: 704-525-2205

FAX: 704-525-2382

Company : S&ME Inc.		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 9771D Southern Pine Blvd.		Third Party Billing requires written authorization from third party	
City: Charlotte	State/Province: NC	Zip/Postal Code: 28273	Country:
Report To (Name): Jane Wasilewski		Telephone #: 704-940-1830	
Email Address: jwasilewski@smeinc.com		Fax #:	Purchase Order:
Project Name/Number:		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken:		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input checked="" type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <input type="checkbox"/>			
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name:		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
FP-3	Felt		
FP-6	Felt		
BBM-3	Mastic only		
Client Sample # (s):		Total # of Samples: 3	
Relinquished (Client):		Date: 2/12/20	Time:
Received (Lab):		Date: 2/12/20	Time: 11:45AM/12
Comments/Special Instructions: Bill to S&ME, Inc., 9751 Southern Pine Blvd., Charlotte NC 28273 ****EMAIL INVOICE TO JANE WASILEWSKI****			
4261-20-015			



EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / charlottelab@emsl.com

EMSL Order: 412004292

Customer ID: SMEI54

Customer PO: 4261-20-015

Project ID:

Attention: Jane Wasilewski
S&ME, Inc.
9771D Southern Pine Blvd.
Charlotte, NC 28273

Phone: (704) 940-1830

Fax: (704) 565-4929

Received Date: 05/20/2020 2:05 PM

Analysis Date: 05/21/2020

Collected Date:

Project: 4261-20-015

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
F-3 412004292-0001	Felt	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Aaron Hartley (1)

Lee Plumley, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 05/21/2020 09:32:16

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

412004292

EMSL ANALYTICAL, INC.
10801 SOUTHERN LOOP BLVD
PINEVILLE, NC 28134PHONE: 704-525-2205
FAX: 704-525-2382

Company : S&ME Inc.		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 9771D Southern Pine Blvd.		Third Party Billing requires written authorization from third party	
City: Charlotte	State/Province: NC	Zip/Postal Code: 28273	Country:
Report To (Name): Jane Wasilewski		Telephone #: 704-940-1830	
Email Address: jwasilewski@smeinc.com		Fax #:	Purchase Order:
Project Name/Number:		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken:		OT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input checked="" type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <input type="checkbox"/>			
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name:		Samplers Signature:	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
F-3	Fe H		
Client Sample # (s):		Total # of Samples: 1	
Relinquished (Client):		Date: 5/20/20	Time:
Received (Lab):		Date: 5/20/20	Time: 2:05pm DB
Comments/Special Instructions: Bill to S&ME, Inc., 9751 Southern Pine Blvd., Charlotte NC 28273 ****EMAIL INVOICE TO JANE WASILEWSKI****			
4261-20-015			

Appendix V – Copy of SCDHEC Inspectors' Licenses




South Carolina Department
of
Health and Environmental Control
Asbestos License

Travis L. Knight

SCDHEC ISSUED
Asbestos ID Card

Travis Knight

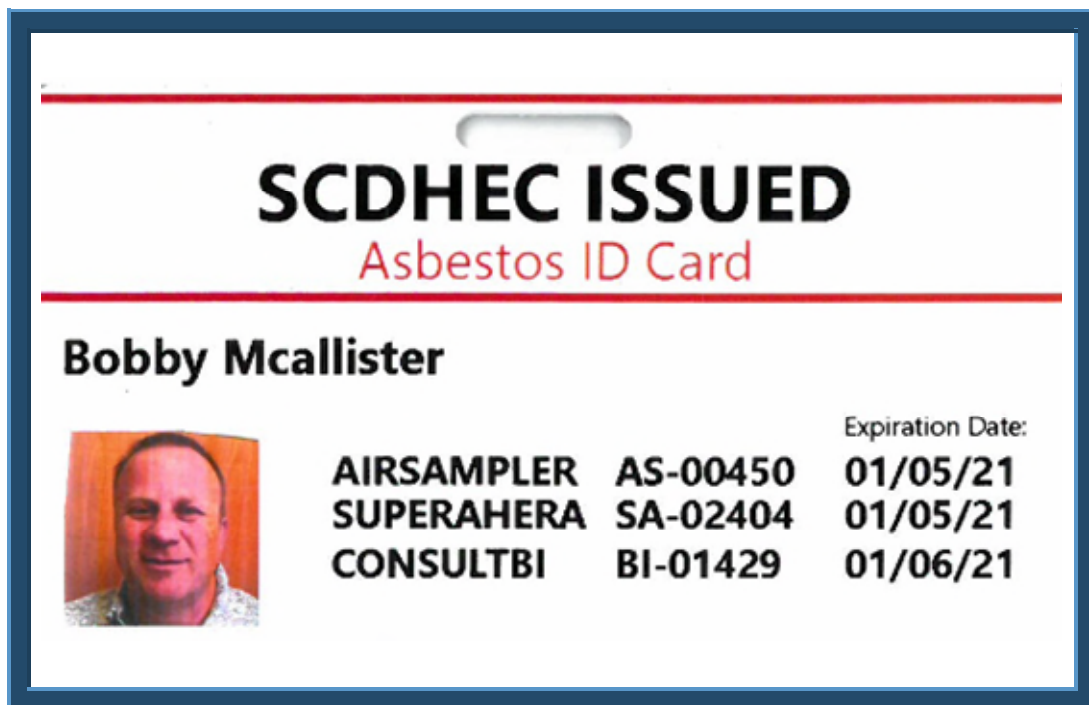


CONSULTPD	PD-00166	12/10/20
AIRSAMPLER	AS-00237	01/05/21
CONSULTBI	BI-00885	01/06/21
SUPERAHERA	SA-01266	01/05/21



South Carolina Department
of
Health and Environmental Control
Asbestos License

Bobby J. McAllister





ASBESTOS ABATEMENT PROJECT LICENSE

Revision

License Number: ASR-003932

Issued by: Kenny Garcia

Issued: November 9, 2022

CIDS, LLC
753 Hwy 601 South
Lugoff, SC 29078

SITE: SCDMH BLDG. 15 JOB# 21-3626

LOCATION: 7901 FARROW RD, COLUMBIA

AMOUNT:

Friable Materials		
Amount	Type	Unit
20	hard joint insulation	Linear Feet
2600	window glazing	Linear Feet

Non-Friable Materials		
Amount	Type	Unit
10	gray sink coating	Linear Feet
100	silver paint	Square Feet
1000	yellow duct mastic	Linear Feet
1000	black pipe mastic	Linear Feet
13589	roofing	Square Feet
20	pipe wrap	Linear Feet
20	black mastic	Linear Feet

This license is issued based on information provided in your asbestos abatement notification received **November 4, 2022**. Please refer to the license number above whenever you communicate with DHEC about this project. Use of this license indicates your agreement that the information herein is accurate. This license is non-transferable and is issued subject to the following conditions:

I. Removal or other abatement activities which have the potential to disturb regulated and/or non-regulated asbestos shall begin **9/26/2022**, and shall complete **12/2/2022**. If there is any change in these dates, you must notify DHEC in accordance with applicable State and Federal regulations.

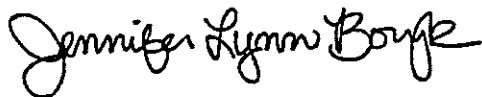
II. Based on the information you have provided, the license fee is \$ for this project. You will be billed for any amount due. If the amount of asbestos material abated increases after the project has begun, you must amend your notification and pay any additional fees. If at any time during the project the non-

regulated material is rendered regulated, you must immediately amend your notification, comply with all applicable regulations, and pay any applicable asbestos abatement fees.

III. You are hereby authorized to dispose of asbestos waste from this project at the **LOVELESS & LOVELESS C & D LANDFILL (282428-1201)**. Authorization is valid only for the amount of asbestos indicated above, and for a reasonable amount of other asbestos-contaminated materials generated during this project. You must obtain prior approval for disposal from the landfill operator. There shall be no leakage or spillage during transport. Authorization for disposal shall expire forty-five (45) days after **12/2/2022**.

IV. At the conclusion of this project, you must submit a completed copy of your Waste Shipment Record to the Department.

The SCDHEC Division of Solid Waste Planning & Recycling also has rules governing the disposal of materials that have come in contact with lead-based paint. Materials which have been painted with lead-based paint must be disposed of in a Class Two or Three Landfill. Please contact the Bureau of Land and Waste Management for additional information.



Jennifer Lynn Boryk
Program Manager, Asbestos
Bureau of Air Quality

21-3626

12/6/22

Submission Complete

Asbestos - Waste Shipment Record

Submission HPP-QQCJ-ZQ02D Revision 1 Form Version 1.0



Asbestos Waste Shipment Record
Asbestos Section / Bureau of Air Quality South Carolina DHEC
2800 Bull Street Columbia SC 29201
Phone: (803) 898-4289 Fax: (803) 898-4281

21-3624
#21-3636

1. SCDHEC ASBESTOS ABATEMENT PROJECT LICENSE NUMBER: ASR-003932

Generator Information

2. Waste Generator/Owner Name & Address:	Work Site & physical Address: 701 Farrow Rd. Columbia, SC	Waste Generator/Owner Phone
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3. Abatement Contractors Name & Address: CIDS, LLC. 753 Hwy 601 South Lugoff, SC 29078	Abatement Contractors Phone (803) 438-1057
---	---

4. Name and Address of Waste Disposal Site: (Physical site location) C&D Loveless & Loveless 1708 Screaming Eagle Road Lugoff, SC 29078	WDS phone 803-359-5547
--	---------------------------

5. Description of Waste Material (please circle) F friable (Regulated) Nonfriable (Nonregulated)	6. Bags or Containers No. Type: Drums Bags Bulk Load	7. Total Quantity: m3 (yd3)
--	---	-------------------------------------

Special handling instructions & additional information:

9. Generator's / Contractor's Certification: I hereby declare the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled. The contents are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print Name: Donald Buchanan	Signature: Donald Buchanan	Date:
--------------------------------	-------------------------------	-------

Transporter Information (Acknowledgment of Receipt of Material):

10. Name, title address and phone: Alfred H. Hemen Jr	Signature:	Date: 11-17-22
--	------------	-------------------

11. Name, title address and phone:	Signature:	Date:
------------------------------------	------------	-------

12. Accompanying Supervisor & License Number: (FOR FRIABLE WASTE)	Signature:	Date:
---	------------	-------

Disposal Site Operator

13. Discrepancy:	Bags or Containers	Total Quantity	Weight
------------------	--------------------	----------------	--------

14. Waste disposal site owner or operator certification of receipt of asbestos material covered by this manifest except as noted in item 10.

Print Name: Tammie Young	Signature: Tammie Young	Date: 11-17-22
-----------------------------	----------------------------	-------------------

Please forward a complete copy of this record to: SCDHEC BAQ Asbestos, 2800 Bull Street, Columbia, SC 29201
Office (803) 898-4289 Fax (803) 898-4281



Asbestos Waste Shipment Record
Asbestos Section / Bureau of Air Quality South Carolina DHEC
2600 Bull Street Columbia SC 29201
Phone: (803) 898-4289 Fax: (803) 898-4281

21 - 3626

1. SCDHEC ASBESTOS ABATEMENT PROJECT LICENSE NUMBER: ASR-003932

Generator Information

2. Waste Generator/Owner Name & Address:

SCDMH

Work Site & physical
Address:

7901 Farrow Rd.
Columbia, SC

Waste Generator/Owner Phone

3. Abatement Contractors Name & Address:

CIDS, LLC.
753 Hwy 601 South
Lugoff, SC 29078

Abatement Contractors Phone
(803) 438-1057

4. Name and Address of Waste Disposal Site: (Physical site location)

C&D Loveless & Loveless
1708 Screaming Eagle Road
Lugoff, SC 29078

WDS phone

803-359-5547

5. Description of Waste Material (please circle)

Frable (Regulated)

Nonfrable (Nonregulated)

6. Bags or Containers

No. Type: _____ Drums
_____ Bags
_____ Bulk Load

7. Total Quantity:

m3 (yd3)

20

8. Shipping Instructions & additional information:

9. Generator's / Contractor's Certification: I hereby declare the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled. The contents are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print Name:

Donald Buchanan

Signature:

Donald Buchanan

Date:

11-15-22

Transporter Information (Acknowledgment of Receipt of Material):

10. Name, title address and phone:

Mark Guter

Signature:

[Signature]

Date:

11-15-22

11. Name, title address and phone:

Signature:

Date:

12. Accompanying Supervisor & License Number: (FOR FRABLE WASTE)

Signature:

Date:

Disposal Site Operator

13. Discrepancy:

Bags or Containers

Total Quantity

Weight

14. Waste disposal site owner or operator certification of receipt of asbestos material covered by this manifest except as noted in item 10.

Print Name:

Tommya Lenix

Signature:

[Signature]

Date:

11/15/2022

Please forward a complete copy of this record to: SCDHEC BAQ Asbestos, 2600 Bull Street, Columbia, SC 29201
Office (803) 898-4289 Fax (803) 898-4281



Asbestos Waste Shipment Record
Asbestos Section / Bureau of Air Quality South Carolina DHEC
2800 Bull Street Columbia SC 29201
Phone: (803) 898-4289 Fax: (803) 898-4281

21 - 003932

3626

1. SCDHEC ASBESTOS ABATEMENT PROJECT LICENSE NUMBER: ASR- 003932

Generator Information

2. Waste Generator/Owner Name & Address:
SC Dept. of Mental Health
Work Site & physical Address:
7901 Farrow Rd.
Columbia, SC
Waste Generator/Owner Phone

3. Abatement Contractors Name & Address:
CIDS, LLC.
753 Hwy 601 South
Lugoff, SC 29078
Abatement Contractors Phone
(803) 438-1057

4. Name and Address of Waste Disposal Site: (Physical site location)
C&D Loveless & Loveless
1708 Screaming Eagle Road
Lugoff, SC 29078
WDS phone
803-359-5547

5. Description of Waste Material (please circle)
Friable (Regulated) Nonfriable (Nonregulated)
6. Bags or Containers
No. Type: Drums
Bags
Bulk Load
7. Total Quantity:
m3 20 (yd3)

8. Handling instructions & additional information:

9. Generator's / Contractor's Certification: I hereby declare the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled. The contents are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print Name: Donald Buchanan
Signature: Donald Buchanan
Date: 9/26/22

Transporter Information (Acknowledgment of Receipt of Material):

10. Name, title address and phone:
Signature:
Date:

11. Name, title address and phone:
Coleman Drake Law
Signature: C. Drake
Date: 11-9-22

12. Accompanying Supervisor & License Number: (FOR FRIABLE WASTE)
Signature:
Date:

Disposal Site Operator

13. Discrepancy: Bags or Containers Total Quantity Weight

14. Waste disposal site owner or operator certification of receipt of asbestos material covered by this manifest except as noted in item 10.

Print Name: Tonya Lenix
Signature: Tonya Lenix
Date: 11/9/2022

Please forward a complete copy of this record to: SCDHEC/BAQ Asbestos, 2800 Bull Street, Columbia, SC 29201
Office (803) 898-4289 Fax (803) 898-4281



Asbestos Waste Shipment Record
Asbestos Section / Bureau of Air Quality South Carolina DHEC
2600 Bull Street Columbia SC 29201
Phone: (803) 898-4289 Fax: (803) 898-4281

21 - 3636

3626

1. SCDHEC ASBESTOS ABATEMENT PROJECT LICENSE NUMBER: ASR- 003932

Generator Information

2. Waste Generator/Owner Name & Address:

Work Site & physical
Address:

7101 Farrow Rd.
Columbia, SC

Waste Generator/Owner Phone

3. Abatement Contractors Name & Address:

CIDS, LLC.
753 Hwy 601 South
Lugoff, SC 29078

Abatement Contractors Phone
(803) 438-1057

4. Name and Address of Waste Disposal Site: (Physical site location)

C&D Loveless & Loveless
1708 Screaming Eagle Road
Lugoff, SC 29078

WDS phone

803-359-5547

5. Description of Waste Material (please circle)

Friable (Regulated)

Nonfriable (Nonregulated)

6. Bags or Containers

No. Type: _____ Drums

_____ Bags

_____ Bulk Load

7. Total Quantity:

m3 (yd3)

8. Handling instructions & additional information:

9. Generator's / Contractor's Certification: I hereby declare the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled. The contents are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print Name:
Donald Buchanan

Signature:
Donald Buchanan

Date:

Transporter Information (Acknowledgment of Receipt of Material):

10. Name, title address and phone:

Titus Green

Signature:

Titus Green

Date:

11/11/22

11. Name, title address and phone:

Signature:

Date:

12. Accompanying Supervisor & License Number: (FOR FRIABLE WASTE)

Signature:

Date:

Disposal Site Operator

13. Discrepancy:

Bags or Containers

Total Quantity

Weight

14. Waste disposal site owner or operator certification of receipt of asbestos material covered by this manifest except as noted in item 10.

Print Name:

Tompa Lemix

Signature:

Tompa Lemix

Date:

11/11/2022

Please forward a complete copy of this record to: SCDHEC BAQ Asbestos, 2600 Bull Street, Columbia, SC 29201
Office (803) 898-4289 Fax (803) 898-4281

3626

1. SCDHEC ASBESTOS ABATEMENT PROJECT LICENSE NUMBER:

ASR- 003932

Generator Information

2. Waste Generator/Owner Name & Address:

SCDMH

Work Site & physical
Address:7901 Farrow Rd
Columbia SC

Waste Generator/Owner Phone

3. Abatement Contractors Name & Address:

CIDS, LLC.
753 Hwy 601 South
Lugoff, SC 29078Abatement Contractors Phone
(803) 438-1057

4. Name and Address of Waste Disposal Site: (Physical site location)

C&D Loveless & Loveless
1708 Screaming Eagle Road
Lugoff, SC 29078

WDS phone

5. Description of Waste Material (please circle)

Friable (Regulated)

Nonfriable (Nonregulated)

6. Bags or Containers

No. Type: _____ Drums

_____ Bags

_____ Bulk Load

7. Total Quantity:

m3

10 (yd3)

8. Special handling instructions & additional information:

9. Generator's / Contractor's Certification: I hereby declare the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled. The contents are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print Name:

Donald Buchanan

Signature:

Donald Buchanan

Date:

8/26/21

Transporter Information (Acknowledgment of Receipt of Material):

10. Name, title address and phone:

Donald B. BRACE

Signature:

Donald B. Brace

Date:

8/26/21

11. Name, title address and phone:

Signature:

Date:

12. Accompanying Supervisor & License Number: (FOR FRIABLE WASTE)

Signature:

Date:

Disposal Site Operator

13. Discrepancy:

Bags or Containers

Total Quantity

Weight

14. Waste disposal site owner or operator certification of receipt of asbestos material covered by this manifest except as noted in item 10.

Print Name:

Alphenie Warr

Signature:

Alphenie Warr

Date:

8/26/21

Please forward a complete copy of this record to: SCDHEC BAQ Asbestos, 2600 Bull Street, Columbia, SC 29201
Office (803)898-4289 Fax (803)898-4281



Asbestos Waste Shipment Record

Asbestos Section / Bureau of Air Quality South Carolina DHEC
2600 Bull Street Columbia SC 29201
Phone: (803) 898-4289 Fax (803) 898-4281

1. SCDHEC ASBESTOS ABATEMENT PROJECT LICENSE NUMBER: **ASR- 003932**

Generator Information

2. Waste Generator/Owner Name & Address: SCDMH	Work Site & physical Address: 7901 Farrow Rd. Columbia, SC	Waste Generator/Owner Phone
--	--	-----------------------------

3. Abatement Contractors Name & Address: CIDS, LLC. 753 Hwy 601 South Lugoff, SC 29078	Abatement Contractors Phone (803) 438-1057
--	--

4. Name and Address of Waste Disposal Site: (Physical site location) C&D Loveless & Loveless 1708 Screaming Eagle Road Lugoff, SC 29078	WDS phone
---	-----------

5. Description of Waste Material (please circle) Friable (Regulated) Nonfriable (Nonregulated)	6. Bags or Containers No. Type: _____ Drums _____ Bags _____ Bulk Load	7. Total Quantity: m3 (yd3)
--	---	---------------------------------------

8. Special handling instructions & additional information:

9. Generator's / Contractor's Certification: I hereby declare the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled. The contents are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Print Name: Donald Buchanan	Signature: <i>Donald Buchanan</i>	Date: 5-11-21
---------------------------------------	--------------------------------------	-------------------------

Transporter Information (Acknowledgment of Receipt of Material):

10. Name, title address and phone:	Signature:	Date:
11. Name, title address and phone: <i>Coleman Drakeford</i>	Signature: <i>Coleman Drakeford</i>	Date: 7-30-21
12. Accompanying Supervisor & License Number: (FOR FRIABLE WASTE)	Signature:	Date:

Disposal Site Operator

13. Discrepancy:	Bags or Containers	Total Quantity	Weight
14. Waste disposal site owner or operator certification of receipt of asbestos material covered by this manifest except as noted in item 10.			
Print Name: <i>Hayla Turner</i>	Signature: <i>Hayla Turner</i>	Date: 7-30-2021	

Please forward a complete copy of this record to: SCDHEC BAQ Asbestos, 2600 Bull Street, Columbia, SC 29201
Office (803) 898-4289 Fax (803) 898-4281

PROJECT DRAWINGS

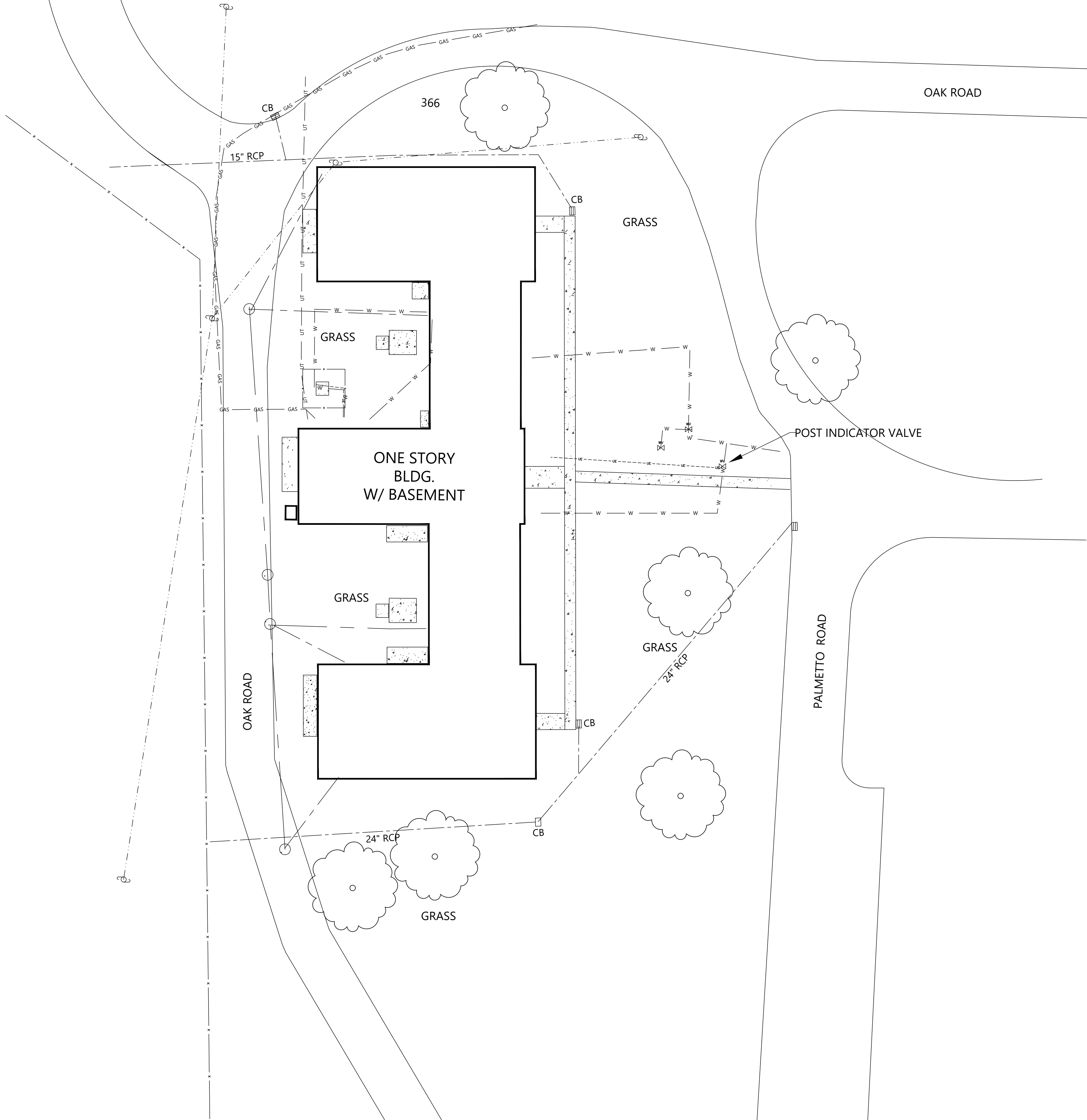
DEMOLITION NOTES APPLICABLE TO SHEET C1.01

- VERIFY FIELD CONDITIONS, DIMENSIONS, QUANTITIES, AND ASSOCIATED DETAILS. SUBMISSION OF THE BID ACKNOWLEDGES EXISTING CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND ASSOCIATED FEES.
- PERSONNEL AND SITE SAFETY, AND RELATED OSHA COMPLIANCE IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE SUBMITTALS PER CONTRACT REQUIREMENTS AND SECTIONS 01 11 00, 02 41 13, AND 02 41 16.
- SUBMIT A WASTE DISPOSAL AND RECYCLING PLAN FOR ALL WASTE AND MATERIALS REMOVED FROM THE PROJECT SITE.
- COORDINATE REMOVAL OF EXISTING ITEMS, ACCESS AND USE OF UTILITIES, SITE SECURITY / BUILDING INTEGRITY AND USE OF THE PROPERTY WITH THE GENERAL CONTRACTOR AND OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF DEMOLITION AND SITE WORK TO INCLUDE BUT NOT LIMITED TO SHORING, EXCAVATION, DEWATERING, BACKFILL, GRADING, SEEDING, ETC.
- INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL PER SECTION 31 25 53, AND PROJECT DRAWINGS C7.01, C7.11 AND C7.21.
- CONTRACTOR IS RESPONSIBLE OF MAINTAINING AND INSPECTING EROSION CONTROLS ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ONE INCH OF RAINFALL OR MORE. INSPECTIONS SHALL NOT EXCEED A SPAN OF NINE DAYS. MAINTAIN RECORDS ONSITE. SCDHEC CERTIFIED CEPST INSPECTOR NOT REQUIRED.
- VERIFY AND LOCATE UTILITIES PRIOR TO SITE ACTIVITIES TO PROTECT THOSE UTILITIES TO REMAIN AND DETERMINE POINTS OF TERMINATION TO BE CONFIRMED BY OWNER.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER OF ANY DAMAGE TO UTILITIES SCHEDULED TO REMAIN CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS.
- CONFIRM POWER IS DISCONNECTED ON STRUCTURES AND SURROUNDING POWER POLES. OWNER TO COORDINATE WITH ELECTRICAL PROVIDER.
- PHYSICALLY CONFIRM UTILITY LOCATIONS AND THAT UTILITIES ARE DISCONNECTED PRIOR TO DEMOLITION.
- SHUT-OFF, CUT AND CAP WATER INSIDE WATER METER. SUBSURFACE LINES MAY REMAIN.
- LIMIT EXCAVATION AND DISTURBANCE TO THE FOOTPRINT OF THE STRUCTURES.
- PLACE SUITABLE BORROW MATERIALS AND ROUGH GRADE TO RESULT IN POSITIVE DRAINAGE.
- STABILIZE SITE PER SECTION 31 25 53 AND PROJECT DRAWING C7.12.
- DEMOLITION AND REMOVAL COMPLETE, TO INCLUDE BUT NOT LIMITED TO ALL ABOVE GRADE FEATURES.
- NO ITEMS ARE CURRENTLY SCHEDULED FOR SALVAGE BY OWNER.
- REMOVE DEBRIS FROM ELEVATED PORTIONS OF THE BUILDING IN A CONTROLLED DECENT TO MINIMIZE GROUND IMPACT AND DUST GENERATION.
- DEMOLISH FOUNDATION WALLS AND ASSOCIATED BELOW-GRADE CONSTRUCTION TO INCLUDE ITEMS SUCH AS PIERS, CONNECTIONS, TIE-DOWNS, AND FOOTINGS.
- DEMOLISH, CUT, AND CAP UTILITIES. AVOID UNNECESSARY GROUND DISTURBANCE.
- LIMIT DISPERSION OF DUST AND DIRT WITH WATER AND OTHER SUITABLE MEANS. USE OF WATER SHALL NOT CREATE A DETRIMENT TO ADJACENT FEATURES, CREATE A NUISANCE, ENVIRONMENTAL OR SAFETY ISSUE SUCH AS RUN-OFF, POLLUTION, ICE, OR FLOODING.
- REMOVE ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION AND SAFELY AND LEGALLY DISPOSE OF ALL ITEMS IN ACCORDANCE WITH APPLICABLE REGULATIONS. DISPOSAL AND RECYCLING ACTIONS SHALL BE DECLARED IN THE WASTE HANDLING AND DISPOSAL PLAN AND SHALL BE APPROVED BY THE OWNER. NO BURNING SHALL BE PERMITTED.
- CONTRACTOR SHALL PROVIDE CLEAN FILL FROM A PRE-APPROVED SOURCE TO BACKFILL THE BASEMENT EXCAVATION. PLACE FILL IN MAXIMUM 8-INCH LOOSE LIFTS AND COMPACT TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY. THIS LEVEL OF COMPACTION CAN BE PRACTICALLY ACHIEVED WITH AREA SOILS AND HAS BEEN FOUND TO PROVIDE ADEQUATE SUPPORT FOR PAVEMENTS. OWNER SHALL PROVIDE FOR THIRD PARTY DENSITY TESTING.
- STRIP AND RETAIN TOP SOIL AND SUPPLEMENT AS NECESSARY TO MEET SEEDING AND STABILIZATION REQUIREMENTS.
- SEED THE AREA OF DEMOLITION AND DISTURBANCE IN ACCORDANCE WITH PROJECT DRAWING C7.12 EROSION AND SEDIMENT CONTROL NOTES, ONCE DEMOLITION, ROUGH GRADING, AND FILLING OF VOIDS IS COMPLETE.
- NOTIFY THE OWNER UPON DISCOVERY OF ANY POSSIBLY CULTURALLY OR HISTORICALLY RELEVANT RESOURCES (50 YEARS OF AGE OR OLDER) THAT MAY BE DISCOVERED.
- OWNER MAY RETAIN OR PROTECT ANY FEATURES, RESOURCES, OR ITEMS DEEMED OF VALUE OR SIGNIFICANCE.

[illegible]

C0.01

DRAWING PATH: Z:\Shared\SME\Ops\columbia-1610\Projects\2023\218631_south carolina department of mental health_scdmh bldg_15 demolition specs_columbia_scdmh\CAD\T1.00.dwg



GENERAL NOTES

- REFER TO DRAWING C0.01 FOR ABBREVIATIONS AND GENERAL NOTES.
- VERIFY FIELD CONDITIONS , DIMENSIONS, QUANTITIES, AND ASSOCIATED DETAILS. SUBMISSION OF THE BID ACKNOWLEDGES EXISTING CONDITIONS.
- INSTALL, MAINTAIN, AND COMPLY WITH ALL EROSION AND SEDIMENT CONTROLS AND STORMWATER POLLUTION REQUIREMENTS PER SECTION 31 25-53, AND DRAWINGS C7.01, C7.11, AND C7.12

DETAIL NOTES

- INSTALL, DEMOLISH ITEMS IN AREA NOTED TO INCLUDE B NOT LIMITED TO BUILDING, STRUCTURES, STEPS, PADS, CURBING AND SIDEWALKS.
- DEMOLISH AND DISPOSE THOSE SUBSURFACE BUILDING FEATURES TO INCLUDE BUT NOT LIMITED TO THE BASEMENT AND FOUNDATION.
- PROVIDE AND MAINTAIN TREE PROTECTIONS FOR ALL THOSE TREES GRAPHICALLY NOTED.
- COORDINATE DISCONNECTION AND/OR REMOVAL OF UTILITIES WITH THE UTILITY PROVIDER THROUGH THE OWNER.
- LOCATE, CUT AND CAP ALL UTILITIES AT THE NEAREST JUNCTURE OR METER/BOX. SUBSURFACE UTILITY LINES MAY REMAIN IN PLACE.
- REMOVE ALL SHRUBS AND PLANTINGS INCLUDING ROOT MASS.
- PERFORM STRAIGHT SAW CUTS TO COMPLETE DEPTH FOR ASPHALT AND CONCRETE TO THE LIMITS SHOWN.
- COMPLETELY REMOVE AND DISPOSE ALL RUBBLE, DEBRIS, AND OTHER MATERIALS RESULTING FROM THE DEMOLITION PRIOR TO BACKFILL.
- COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS PER BACKFILL REQUIREMENT.

LEGEND:

- | | |
|---------------|----------------------------|
| — — — — — | OVERHEAD ELECTRICAL LINE |
| — UT — UT — | UNDERGROUND TELEPHONE LINE |
| — W — W — W — | WATER LINE |
| — GAS — GAS — | GAS LINE |
| — — — — — | STORMWATER PIPE |
| — — — — — | SANITARY SEWER LINE |



134 SUBER ROAD
COLUMBIA, SC 29203
(843) 561-9024



EXISTING SITE, UTILITIES AND
DEMOLITION PLAN

CONSTRUCTION DOCUMENTS FOR BUILDING DEMOLITION
7901 FARROW ROAD, BUILDING 15
COLUMBIA, SOUTH CAROLINA

PROJECT NUMBER
218631
DRAWING NUMBER

C1.01

[illegible]

EROSION & SEDIMENT CONTROL PLAN	
	CONSTRUCTION DOCUMENTS FOR BUILDING DEMOLITION 7901 CRAFT FARROW ROAD, BUILDING 15 COLUMBIA, SOUTH CAROLINA
	PROJECT NUMBER 218631
DRAWING NUMBER	

CONSTRUCTION SEQUENCE

1. RECEIVE SWPPP APPROVAL AND NPDES GENERAL PERMIT COVERAGE FROM CITY OF COLUMBIA AND SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC).
2. OBTAIN DEMOLITION PERMIT FROM CITY OF COLUMBIA PLANNING AND DEVELOPMENT DEPARTMENT.
3. NOTIFY CITY OF COLUMBIA 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
4. ATTEND PRE-CONSTRUCTION MEETING WITH CITY OF COLUMBIA.
5. INSTALL CONSTRUCTION ENTRANCE ON WEST SIDE OF BUILDING (IF REQUIRED).
6. INSTALL PERIMETER CONTROLS (E.G., SILT FENCE AND SEDIMENT TUBES INLET PROTECTION).
7. DEMOLISH BUILDING, PADS AND SIDEWALKS.
8. PROVIDE TEMPORARY AND PERMANENT VEGETATION ON DISTURBED AREAS IN ACCORDANCE WITH SEEDING SPECIFICATION.
9. UPON ACHIEVING FINAL STABILIZATION, REMOVE TEMPORARY SEDIMENT CONTROL BMPs.
10. ENGINEER SHALL SUBMIT NOTICE OF TERMINATION TO CITY OF COLUMBIA.





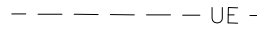




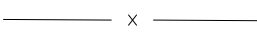






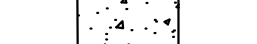
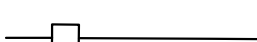


NOTES:

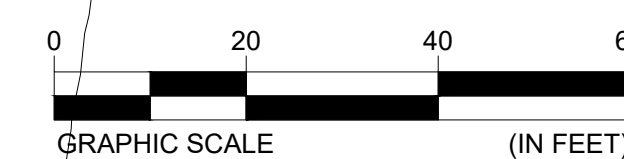
1. SITE OWNER: SC MENTAL HEALTH COMMISSION
SITE ADDRESS: 7901 FARROW ROAD, COLUMBIA, SC.
RICHLAND COUNTY PARCEL NO. R14400-01-01A.
TOTAL SITE ACREAGE = APPROX. 1,200 ACRES.
2. ESTIMATED DISTURBED ACREAGE: 0.7 ACRES.
3. PRE-DEVELOPED IMPERVIOUS AREA = 0.35 ACRES
4. POST-DEVELOPED IMPERVIOUS AREA = 0.0 ACRES
5. RECEIVING STREAM: UNNAMED TRIBUTARY OF CRANE CREEK.
6. SEE CONSTRUCTION SEQUENCE ON THIS DRAWING.
7. SEE SCDHEC STANDARD NOTES ON DRAWING C7.12.
8. TEMPORARY AND PERMANENT SEEDING SHALL BE APPLIED TO DISTURBED AREAS. SEE SEEDING SPECIFICATION ON DRAWING C7.12.
9. FINAL SITE CONTOURS SHALL BE SIMILAR TO EXISTING CONTOURS. SITE SHALL DRAIN OVERLAND TO PIPED STORM WATER SYSTEM AND SHEET FLOW TO OAK ROAD.
10. DUST CONTROL SHALL BE PROVIDED BY A WATER BUFFALO, A TRAILER MOUNTED PUMP AND TANK.
11. LIDAR TOPOGRAPHIC DATA TAKEN FROM NRCS WEBSITE.

ENGINEERS CERTIFICATION

I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000.

EXISTING SITE LEGEND

	WATER LINE W/ VALVE
	WATER LINE
	SANITARY SEWER LINE
	POWER LINE (OVERHEAD)
	POWER LINE (UNDERGROUND)
	TELEPHONE LINE (UNDERGROUND)
	GAS LINE (UNDERGROUND)
	RCP STORMWATER PIPE
	CATCH BASIN
	FENCE
	MAJOR CONTOUR
	MINOR CONTOUR
	LIMITS OF DISTURBANCE
	LIGHT POLE
	EXISTING TREES TO REMAIN
	CONCRETE SIDEWALKS AND PADS
	SILT FENCE
	CONSTRUCTION ENTRANCE
	SEDIMENT TUBE
	TEMPORARY AND PERMANENT SEEDING



APPLY GRASS SEED IN
ACCORDANCE WITH SEEDING
SPECIFICATION ON DWG. C7.12

LIMIT OF DISTURBANCE
AREA = 0.7 ACRES

INSTALL INLET PROTECTION (COMPOST
SEDIMENT TUBES) AT 3 CATCH BASINS
NEAR FRONT OF BUILDING.
SEE DETAIL DWG. C7.11

SITE IS 0.4 MILES FROM FARROW ROAD
(IF CONSTRUCTION ENTRANCE REQUIRED)
SEE DETAIL ON DWG. C7.11

INSTALL APPROX. 200 L.F. SILT FENCE
ALONG EX. CHAIN LINK FENCE DURING
DEMOLITION. SEE DETAIL ON DWG. C7.11

INSTALL APPROX. 240 L.F. SILT FENCE
ALONG ROAD AFTER DEMOLITION. SEE
DETAIL ON DWG. C7.11

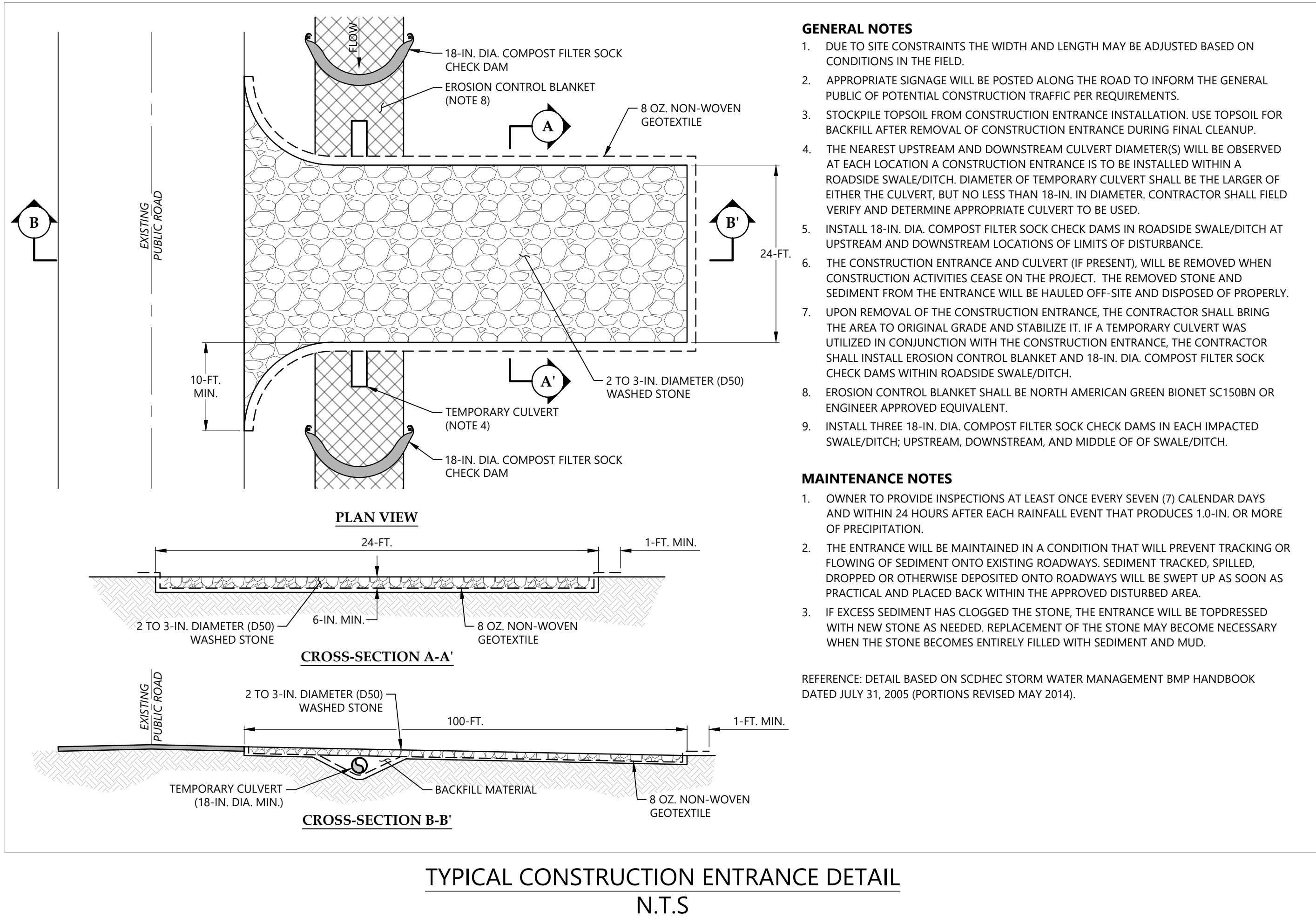
DEMOLITION MATERIALS STOCKPILE.
SEE DETAIL DWG. C7.12.

APPLY GRASS SEED IN
ACCORDANCE WITH SEEDING
SPECIFICATION ON DWG. C7.12

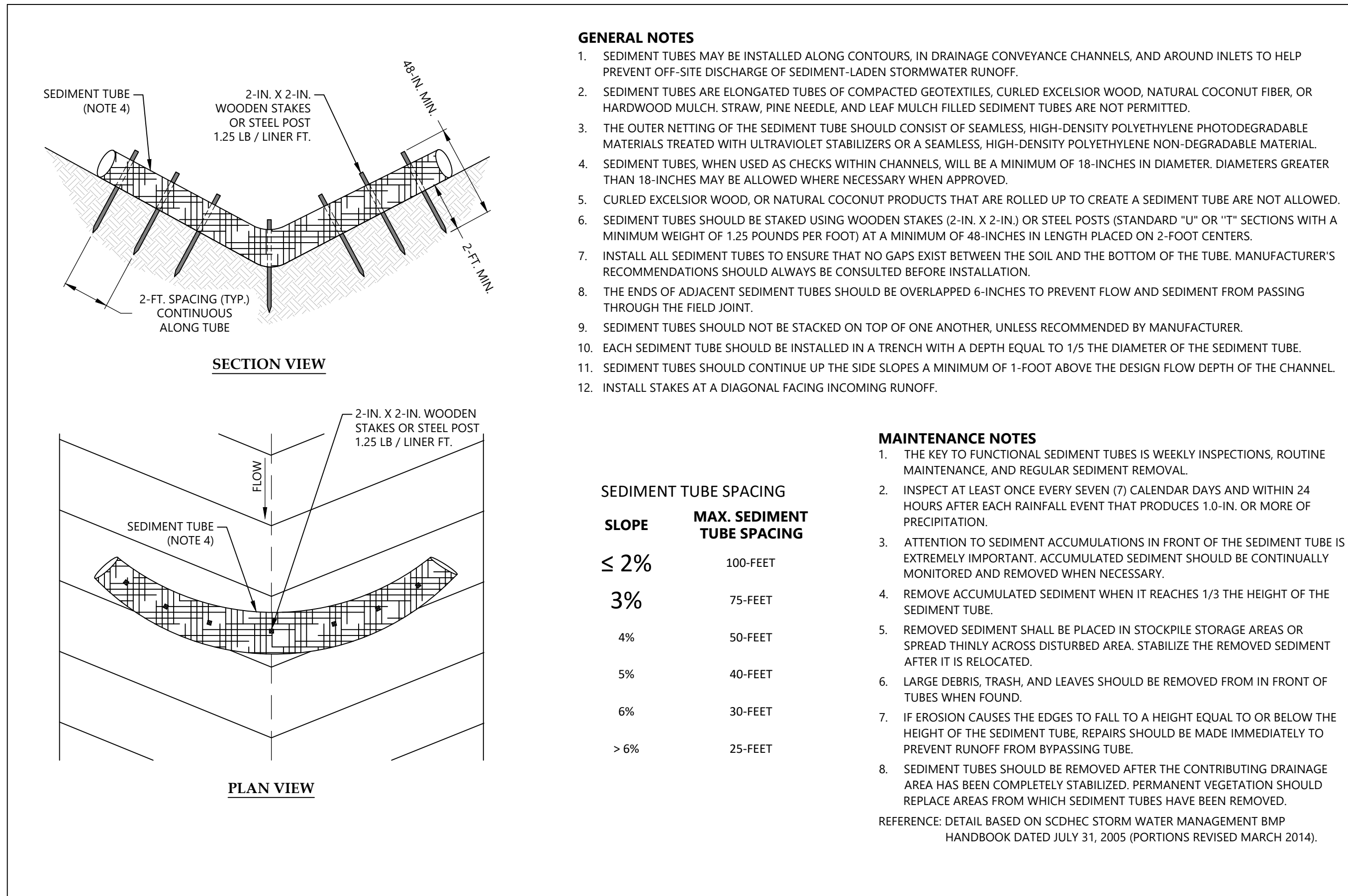
INSTALL INLET PROTECTION (COMPOST
SEDIMENT TUBES) AT 3 CATCH BASINS
NEAR FRONT OF BUILDING.
SEE DETAIL DWG. C7.11

LIMIT OF DISTURBANCE
AREA = 0.7 ACRES

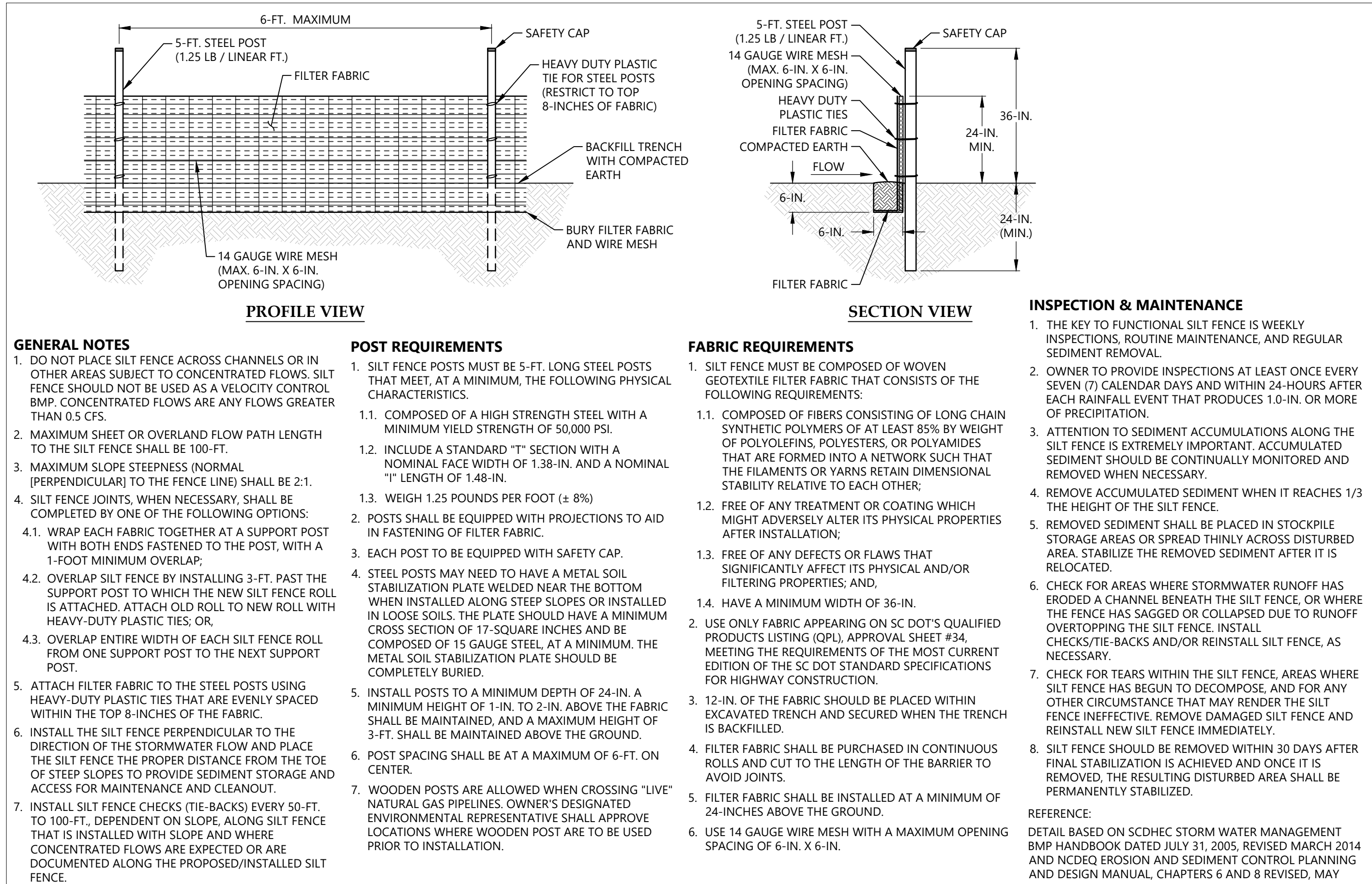
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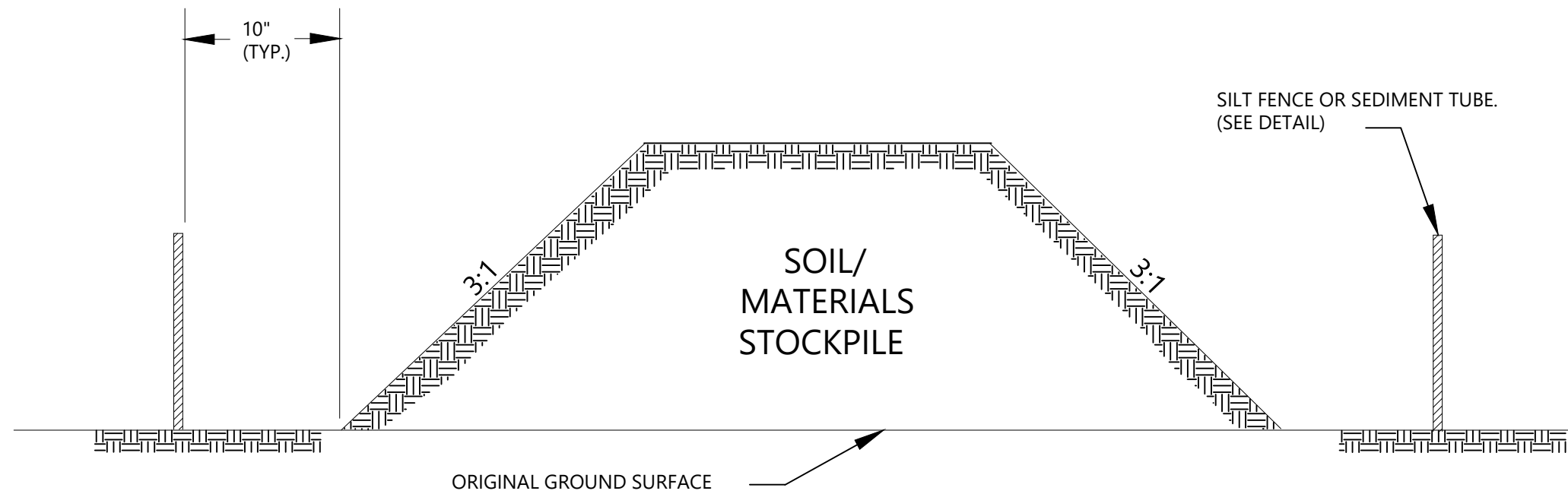
TYPICAL CONSTRUCTION ENTRANCE DETAIL
N.T.S



SEDIMENT TUBE DETAIL
N.T.S



SILT FENCE DETAIL
N.T.S



NOTES:

1. LOCATE STOCKPILE A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES, AND INLETS.
2. SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS (WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING NINE (9) DAYS), ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

TEMPORARY STOCKPILE AREA
N.T.S



NO.	DATE	ISSUED FOR REVIEW	DESCRIPTION
1	3-15-2023	BY	SS
2		FC	CHK
3		JK	APV

EROSION AND SEDIMENT
CONTROL DETAILS

CONSTRUCTION DOCUMENTS FOR BUILDING DEMOLITION
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