

**ADDENDUM NO. 3**  
**NEWPORT TRANSFER STATION EXPANSION**  
**CARTERET COUNTY, NORTH CAROLINA**

**TO:** All Pre-Bid Meeting Attendees

**FROM:** LaBella Associates  
400 South Tryon Street, Suite 1300  
Charlotte, NC 28285

**SUBJECT:** **ADDENDUM NO. 3.** Dated Tuesday, February 6, 2024, to Construction Documents for the Newport Transfer Station Expansion (REBID), dated December 8, 2023, and amended via Addendum No. 1 on January 19, 2024, and Addendum No. 2 on January 31, 2024.

This addendum forms a part of the Contract Documents. **Acknowledge receipt of this addendum with bid submittal. Failure to do so may subject the bidder to disqualification.**

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**Clarifications:**

1. One (1) new pump station is required as part of the Contract Documents. The new pump station will include the installation of two (2) pumps. The pump station will require the installation of a new UL698A control panel as shown on the electrical plans (refer to Detail 7 on E-0003). This includes the installation of a concrete pad and canopy as shown on the electrical plans. The location of the control panel for both pump stations is shown on Drawing No. C-0003. Additionally, as shown on the electrical plans, valve and value vaults are required for the existing and proposed pump station. The vaults should drain back to the pump station.
2. Additionally, as part of this work, the existing pump station will be rehabilitated consisting of the installation of one (1) new pump and associated electrical lines, new floats, new forcemain to tie to new leachate tank, vault, and valve, etc. The contractor is required to provide and install a new UL698A control panel (at the location shown on Drawing No. C-0003) for the new pump to be installed as part of the existing pump station rehabilitation. The forcemain from the existing pump station to the leachate tank shall also be dual contained pipe.

**Sediment Basins conversion to Permanent Detention Wet Ponds:**

1. Based on collaborative efforts with NCDEQ Stormwater Permitting Section, two (2) new drawings were prepared showing the proposed conversion of the proposed sediment basins to wet detention ponds upon completion of the site construction. The contractor shall price this work under Bid item #32.B. Work to be completed under this item include dewatering and conversion of the proposed sediment basins and trap (as outlined in the sequencing protocol provided on new Drawing No. C-0010A), construction of the wet ponds' grades as shown on new Drawing No. C-0010A, installation of new concrete riser boxes and outlet structures for stormwater pond (SWP) 2, and SWP 3, lining of three (3) ponds (SWP-1A/SWP-1B, SWP-2, and SWP-3) with a minimum of 12 inches of low permeability (maximum permeability  $10^{-5}$  cm/sec) cohesive soil and an additional six (6) inches of amended top soil to support vegetative growth, installation of a vegetative shelf consisting of at least three (3) diverse species of herbaceous,

native, vegetation at a minimum density of 50 plants per 200 square feet of shelf area (as shown on revised Drawing No. C-0015), matting and stabilization of pond slopes and embankments, survey of the final detention pond structures, and provision of record drawings for each detention pond structure.

Furthermore, due to the changes in the post-construction stormwater management plan for the project, the following changes were made to the erosion and sediment control plan drawings:

- The temporary riser and outlet structure for Sediment Basin (SB) 2 were changed from reinforced concrete pipes to corrugated metal pipe (CMP). This temporary riser structure and pipe will be replaced by a reinforced concrete riser box and outlet pipes during the conversion of the sediment basin to wet detention pond.
- An additional section of guardrail was added around SB-1A (i.e., SWP-1A). Refer to revised Drawing No. C-0003.
- The equalizing pipes connecting SB-1A and SB-1B were slightly realigned to accommodate grading activities associated with the basin conversion to SWP.
- A new pipe, P-13, was added to the site entrance to replace the existing 15" culvert. This replacement pipe was added to maintain existing site hydrology and is shown on revised Drawing Nos. C-0009 and C-0010.
- A diversion berm, conveying water from the western road embankment to SCC-1, was added to Drawing No. C-0010.
- A new pipe, P-2R, was added. Refer to revised Drawing No. C-0010 and newly added Drawing No. C-0010A.

**Additional Revisions:**

1. Revised Specification No. 01025: Measurement & Payment Section to reflect above changes. Also revised Bid items nos. 20, 21, 22, and 28.

By:

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Mousa Maimoun  
LaBella Associates, P.C.

Attachments:

**Attachment No. 1: Revised Specifications:**

Revised Specification No. 01025: Measurement & Payment Section

**Attachment No. 2: Revised Architectural Drawings:**

Revised Drawing No. G0001: Cover Sheet

**Attachment No. 3: Revised Civil Drawings:**

Revised Drawing No. C-0003: Site Plan

Revised Drawing No. C-0009: Erosion and Sediment Control Plan – Phase 1

Revised Drawing No. C-0010: Erosion and Sediment Control Plan – Phase 2

New Drawing No. C-0010A: Stormwater Management Plan

Revised Drawing No. C-0013: Erosion and Sediment Control Details

New Drawing No. C-0013A: Stormwater BMP Detail

Revised Drawing No. C-0015: Seeding Specification

**Attachment No. 1: Revised Specifications:**

Revised Specification No. 01025: Measurement & Payment Section

**SECTION 01025  
MEASUREMENT AND PAYMENT**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Measurement and payment criteria applicable to portions of the Work performed under a Lump Sum payment method.
- B. Measurement and payment criteria applicable to portions of the Work performed under a Unit Price payment method.
- C. All Work completed under the Contract will be measured using United States Units of Measurement.
- D. Defect assessment and non-payment for rejected Work.
- E. All items not specifically listed in the Bid Form for which there is no instructions as to where the price shall be included shall be covered by distributing the price within the listed items. No additional payment will be allowed.

**1.02 UNIT QUANTITIES SPECIFIED**

- A. Quantities and measurements indicated in Section 00300 Unit Price Schedule of the Contract Documents are for bidding and contract purposes only. Quantities and measurements supplied or placed in the Work and verified by ENGINEER shall determine payment.

**1.03 MEASUREMENT OF QUANTITIES**

- A. Measurement methods delineated in the individual specification sections are intended to complement the criteria of this section.
- B. Take all measurements and compute quantities. ENGINEER will verify measurements and quantities.
- C. Linear measurements shall be measured as shown on the Contract Drawings.
- D. Area computations shall be based upon horizontal (plan) measurements and transverse measurements.
- E. Volume computations shall be based upon the Average End Area Method or other mutually acceptable method.
- F. Tonnage measurements shall be based upon the actual weight of material brought to the site and placed. Tonnage material must be placed according to the dimensions shown on the Contract Drawings.
- G. Bid item quantities designated by "Each" shall be complete functional items as described in the Specifications and shown on the Contract Drawings, and shall be construed to include all necessary fittings, accessories, and appurtenances.



- H. Attach a copy of surveyor's calculations and supporting documentation to applications for payment verifying the total quantity of each completed unit cost work item.

#### **1.04 PAYMENT**

- A. "Lump Sum", when used as an item of payment, shall mean complete functioning item for the Work described in the Contract. When a complete structure or structural unit is specified as the unit of measurement the unit shall be construed to include all necessary fittings, accessories, and appurtenances.
- B. "Unit Price", when used as an item of payment, shall mean an agreed-upon price for individual portions, or units, of Work described in the Contract.
- C. Payment for each Lump Sum Price stated in the itemized bid shall constitute full compensation for all required labor, products, tools, equipment, plant, transportation, services, and incidentals; erection, application or installation of an item of the Work required to complete all Work specified under that particular item including cleanup, and all costs for doing related Work as set forth in these Specifications and/or on the Contract Drawings or implied in carrying out their intent. The price bid for each Lump Sum and Unit Price stated in the itemized bid shall be deemed to include an allowance for overhead and profit.
- D. Requests for payment shall be in accordance with the requirements provided within this Project Manual.
- E. No partial payments shall be made for the installation of items which have not been tested and approved.

#### **1.05 DEFECT ASSESSMENT**

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of ENGINEER, it is not practical to remove and replace the Work, the ENGINEER will direct one of the following remedies:
  - 1. The defective Work may remain, but the Unit Sum/Price will be adjusted to a new Sum/Price at the discretion of the OWNER.
  - 2. The defective Work will be partially repaired to the instructions of the ENGINEER, and the unit Sum/Price will be adjusted to a new Sum/Price at the discretion of the OWNER.
- C. The individual specification sections may modify these options or may identify a specific formula or percentage Sum/Price reduction.
- D. The authority of the ENGINEER to assess the defect and identify payment adjustment is final.

#### **1.06 NON-PAYMENT FOR REJECTED PRODUCTS**

- A. Payment will not be made for any of the following:

1. Products wasted or disposed of in a manner that is not acceptable.
2. Products determined as unacceptable before or after placement.
3. Products not completely unloaded from the transporting vehicle.
4. Products placed beyond the lines and levels of the required Work.
5. Products remaining on hand after completion of the Work.
6. Loading, hauling and disposing of rejected Products.

## **PART 2 PROCEDURE**

### **2.01 CONTRACT ITEMS**

- A. The following are more detailed descriptions of payment items as listed on the Base Bid Form. The Bidder shall complete Section 00300 Unit Price Schedule for the Newport Transfer Station Expansion project. The project will be awarded to one (1) CONTRACTOR. The work includes, but is not necessarily limited to, what is described below.

#### Bid Item 1 – Mobilization and Demobilization:

The Lump Sum Price bid for this item shall be full compensation for mobilization and demobilization of all labor, equipment and material to the site, as well as CONTRACTOR-provided utilities and ongoing related expenses, considered normal for administration of the Work. , This item also includes, but not limited to: establishment of field office for the CONTRACTOR and ENGINEER; establishment of shops and plants; provision of sanitary and any other facilities or utilities required by the Specifications and State or Local regulations; moving on and off site all construction equipment, hauling units, mixers, compressors, and tools required to complete the work; establishment of storage yard area; all other work and operations which must be performed prior to beginning work on compensable items of work at the project site; the cost of required insurance and bonds and any other initial expense required by the Owner or the State; removal of any excess materials; development and maintenance of a traffic control plan; removal and proper disposal of all construction related wastes and debris; and restoration of all disturbed areas. Surface preparation outside the Limits of Work (as shown on the Contract Drawings), required by the CONTRACTOR for staging areas and parking areas will be paid as part of this item. 25 percent (25%) of the Lump Sum price bid will be paid with the first payment request following satisfactory evidence of mobilization of sufficient labor, equipment, and material to adequately progress the Work of this contract. 25 percent (25%) of the Lump Sum Price bid will be paid with the payment request subsequent to the payment request in which the initial payment for this item is made. 50 percent (50%) of the Lump Sum Price bid will be paid with the Final Payment request. The Lump Sum price bid for this item shall not exceed five (5) percent (5%) of the Total Base Bid.

#### Bid Item 2 – Site Preparation:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required for installing initial/temporary erosion and sediment control measures (e.g., silt fences, inlet and outlet protections, berms, rock check dams, temporary seeding, etc.), clearing and grubbing, removal of land clearing debris, and stockpiling of topsoil in a location suitable for the CONTRACTOR. Included in this bid item are incidentals such as, loading, hauling, stockpiling, land clearing debris disposal, installation of erosion and sediment control features, construction of containment berms

as required by the Contract Drawings and Specifications. No additional allowances shall be permitted for clearing beyond the limits set forth by the Contract Drawings and Specifications. The Lump Sum Price bid will be paid with the payment request following satisfactory evidence of the removal of all tree stumps, removal of top soil, and installation of initial/temporary erosion and sediment control features. Land clearing debris will be accepted at the OWNER's Tuscarora Long-Term Regional Landfill (TLTRL) at no cost to the CONTRACTOR. The CONTRACTOR must obtain approval from the OWNER prior to hauling land clearing debris to the TLTRL. The CONTRACTOR is responsible for hauling land clearing debris from the Newport Transfer Station to the TLTRL located at 7400 Old US Hwy 70 W, New Bern, NC 28562.

Bid Item 3 – Demolition and Removal of Structures:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required for demolition of existing site structures, including but is not limited to building, roads, tanks, etc., and removal of demolition debris, and proper disposal of the debris in accordance with Federal and State laws and regulations. Included in this bid item are incidentals such as, coordinating utilities removals, loading, hauling, demolition debris disposal, and site restoration. The Lump Sum Price bid will be paid with the payment request following satisfactory evidence of the removal of the existing structures. Demolition waste disposal at CRSWMA's TLTRL will be at no cost to the Contractor. The Contractor is required to stop at the landfill's scale for weighing and instructions for disposal. The CONTRACTOR is responsible for hauling land clearing debris from the Newport Transfer Station to the TLTRL located at 7400 Old US Hwy 70 W, New Bern, NC 28562.

Bid Item 4 – Field Engineering and Survey:

The Lump Sum Price bid for this item shall be payment for Field Engineering the CONTRACTOR conducts at the site including field engineering and surveying needed to accomplish the work. Survey of the construction area existing conditions prior to commencing construction activities shall be included. Ground elevations shall be surveyed and staked.

Bid Item 5 – Construction Quality Control:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install the new work in accordance with Section 01400. This will include, but not limited to, suppliers, manufacturers, products, services, site conditions, and workmanship.

Bid Item 6 – Record Documents:

The Lump Sum Price bid for this item shall be payment in full for all materials and labor to provide record drawings in accordance with Contract Drawings and Specifications. Record documents shall be prepared in accordance with Section 01720. The Lump Sum Price bid will be paid upon review and acceptance by the ENGINEER. In addition, included in this bid item is the monthly construction progress documentation required in Section 01725.

Bid Item 7 – Asphalt Pavement Removal:

The Lump Sum Price bid for this item, based on the Contract Drawings, for pavement removal, shall be payment in full for all materials, labor, and equipment required for the full depth removal of the existing asphalt pavement as shown on the Contract Drawings in areas to be repaved by the CONTRACTOR. Pavement material shall be removed either by milling machine. The removed asphalt will be further processed, if necessary, to produce a 1½" minus material. This processed material will be retained onsite for the OWNER in locations acceptable to the OWNER.

Bid Item 8 – Earthwork – Unsuitable Materials:

The Contract Unit Price per Cubic Yard for this item shall be payment in full for excavation of unsuitable material and backfill prior to structural fill placement. Included in this bid item are incidentals such as excavation, disposal of the excavated material, backfill and proper compaction. The limits of excavation shall be measured once all topsoil and organics and existing structures have been removed (fill areas) or upon reaching subgrade (excavation areas). The use of truck load counts to estimate materials removed or placed will not be accepted as a basis for payment. The limits of the excavation shall be determined by the ENGINEER and agreed by both the CONTRACTOR and OWNER or ENGINEER at the time of excavation. The quantity for this line item will be the in-place volume of unsuitable materials estimated from the limits of excavation. The contingency allowance shall be exercised only with the approval of the ENGINEER and the OWNER.

Bid Item 9 – Classified Earthwork (Cut/Structural Fill):

The Lump Sum Price for this item shall be payment in full for the earthwork required to comply with the Contract Documents and Specifications including all labor, material, equipment, and other incidentals, such as excavation, hauling, placing, spreading, compacting, and watering. Included in this bid item are incidentals such structural fill material hauling from offsite, as well as subgrade proof rolling and compaction.

Bid Item 10 – Backfill and Placement of Cover Soils:

The Contract Unit Price per Cubic Yard for this item shall be payment in full for the placement and compaction of two (2) feet of cover soil over excavated waste from areas of the project located within the pre-regulatory landfill (PRLF). The OWNER will provide cover soil material for the CONTRACTOR at the Tuscarora Long-Term Regional Landfill (TLTRL). The CONTRACTOR will be responsible for hauling the cover soil material from the TLTRL, or any other facility. Cover soil shall be used only to cover waste with 2 feet of soil. The contingency allowance shall be exercised only with the approval of the ENGINEER and the OWNER.

Bid Item 11 – Gravel Surface Areas:

The Lump Sum price bid for this item shall be payment in full for all materials, labor, and equipment required to complete the gravel surface areas to the lines and grades specified on the Contract Drawings. Work includes furnishing hauling, placing, spreading, compacting aggregate base as required to comply with the Contract Drawings and Specifications. Work also includes all material and labor required for the placement of geotextile fabric as required by the Contract Drawings.

Bid Item 12 – Asphalt Paving:

The Lump Sum price bid for this item shall be payment in full for all materials, labor, and equipment required to complete the asphalt paving to the lines and grades specified on the Contract Drawings. Included in this bid item are incidentals such as pavement cuts, hauling, placing, spreading, fine grading the aggregate base, Tensar TX160 Geogrid, compacting pavement shoulders, and paving as required to comply with the Contract Drawings and Specifications.

Bid Item 13 – Concrete Paving:

The Lump Sum price bid for this item, based on the cost per square yard of concrete paving, shall be payment in full for all materials, labor, and equipment required to complete the concrete paving to the lines and grades specified on the Contract Drawings. Included in this bid item are incidentals such as hauling, placing, spreading and fine grading the aggregate base, forming, and pouring, and finishing the concrete paving as required to comply with the Contract Drawings and Specifications for all concrete paving exterior to the Transfer Station building. This Lump Sum bid item includes all rebar and similar reinforcement required to complete the concrete paving.

Bid Item 14 – Guardrail:

The Lump Sum Price bid for this item shall be payment in full all materials, labor, and equipment required to provide and install the W-Beam Guardrail with metal posts. The work and materials shall conform to Contract Drawings and Specifications, and NCDOT Standard Specifications for Road and Structures, Section 862, Guardrail.

Bid Item 15 – Signage and Pavement Markings:

The Lump Sum bid shall be payment in full for all materials, labor, equipment and other incidentals as needed to complete the installation of all signage and pavement markings as shown on the Drawings.

Bid Item 16 – Concrete Retaining Walls:

The Lump Sum price bid for this item shall be payment in full for all materials, labor, and equipment required to complete construction of the concrete retaining walls, including the retaining walls at the exterior of the transfer station building, to the lines and grades specified on the Contract Drawings. Included in this bid item are incidentals such as rebar preparation, forming, pouring, spreading, and finishing, as required to comply with the Contract Drawings and Specifications.

Bid Item 17 – Segmental Block Retaining Walls:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to construct the segmental block retaining wall in the areas shown on the Contract Drawings. All work shall be performed in accordance with the Contract Drawings and Specifications, and includes but is not limited to, the precast segmental block, geogrid, crushed/washed stone, 4” perforated pipe, foundation, and subgrade preparation. The payment shall be full compensation for the materials and work completed and accepted.

Bid Item 18 – Bollards:

The Contract Unit Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install 30 bollards at locations shown on the Contract Drawings including procurement, shipping, unloading, concrete, installation, and painting. The payment shall be full compensation for the materials and work completed and accepted.

Bid Item 19 – Concrete Slabs:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to construct the concrete slabs and pads in the areas shown on the Contract Drawings. All work shall be performed in accordance with the Contract Drawings and Specifications, and includes the concrete, reinforcing, macadam base course, and subgrade preparation. The payment shall be full compensation for the materials and work completed and accepted.

Bid Item 20 – 13,000 SF Transfer Station Building:

The Lump Sum price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install the 100' x 130' pre-engineered metal building (PEMB) including but not limited to, procurement, shipping, unloading, and PEMB installation. This work also includes constructing/installing all reinforced concrete slabs (including the EucoFloor 404 topped tipping floor), walls and foundations, interior and exterior lighting, electrical, mechanical, steel, waste deflectors, interior and exterior bollards, wastewater collection and removal piping (including wastewater trench drains), stormwater trench drains, interior electrical equipment, fire control equipment (e.g., hose reels and fire extinguishers) in order to comply with the Contract Drawings and Specifications. This Lump Sum bid item will include all doors, hardware, and other appurtenances associated with the transfer station building.

Bid Item 21 – 16,000 SF Covered Canopy:

The Lump Sum price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install the 100' x 160' pre-engineered covered canopy including but not limited to, procurement, shipping, unloading, and canopy installation. This work also includes constructing/installing all reinforced concrete slabs, foundations, interior and exterior lighting, electrical, mechanical, steel, columns, exterior bollards, wastewater collection and removal piping (including wastewater trench drains), fire control equipment (e.g., hose reels and fire extinguishers) in order to comply with the Contract Drawings and Specifications. This Lump Sum bid item will include all hardware and other appurtenances associated with the covered canopy.

Bid Item 22 – 3,500 SF Office/Maintenance Building:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install the 70' x 50' PEMB including, but not limited to, procurement, shipping, unloading, reinforced concrete slab construction, and PEMB installation. The building shall be complete with all electrical, plumbing, telephone, and mechanical items, utility connections, doors, hardware, and all appurtenances as shown on the Contract Drawings and Specifications. This item also

includes arranging for all building inspections as required by local codes. The payment shall be full compensation for the materials and work completed and accepted, and satisfactory proof of all required inspections.

Bid Item 23 – 325 SF Scalehouse:

The Lump Sum price bid for this item shall be payment in full for all materials, labor, and equipment required to complete the construction of an approximately 11' x 29.5' building including all reinforced concrete slabs, walls and foundations, interior and exterior lighting, electrical, mechanical, plumbing, and building finishes. This item also includes arranging for all building inspections as required by local codes. The payment shall be full compensation for the materials and work completed and accepted and satisfactory proof of all required inspections.

Bid Item 24 – Cast-in-place Concrete Handicap Ramp, Ramp Handrails, and Concrete Steps:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install the cast in-place concrete handicap ramp, ramp handrails, and concrete steps for the scalehouse (Bid Item 23) as shown on the Contract Documents including, but not limited to, procurement, shipping, unloading, installation, and painting. The ramp, ramp handrails, and steps shall be complete with all appurtenances as shown on the Contract Drawings and Specifications. This item also includes arranging for all building inspections as required by local codes. The payment shall be full compensation for the materials and work completed and accepted, and satisfactory proof of all required inspections.

Bid Item 25 – Parking Bumpers (Painted Yellow):

The Contract Unit Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install four (4) parking bumpers at the locations shown on the Contract Drawings, including procurement, shipping, unloading, installation, and painting. This item includes the parking spot markings. The payment shall be full compensation for the materials and work completed and accepted.

Bid Item 26 – Potable Water Well and Potable Water Conveyance:

The Lump Sum Price bid for this item shall be payment in full for drilling and installation of water supply well and installing the associated water conveyance pipes, fittings, and appurtenances including all labor, materials and permits necessary to complete the work. This item also includes connecting the new potable water supply system to the existing transfer station building. The well shall be a minimum of six (6) inches in diameter furnished with steel casing, submersible pump, and a metal shed. The yield of the well should be a minimum of 3,000 gallons per day (GPD) and the pump should have a minimum flowrate of 40 gallons per minute (GPM). Well drilling and installation shall be in accordance with North Carolina Department of Environmental Quality (NCDEQ) rules for domestic water well requirements and quality. The payment shall be full compensation for permitting, materials and work completed, inspected and accepted.

Bid Item 27 – Holding Tanks and Sanitary Sewer:

The Lump Sum Price for this item shall be payment in full for all materials, labor, and equipment required to provide and install two (2) 2,000 gallon holding tanks at the locations shown on the Contract Drawings. This bid item includes installation of sanitary sewer, cleanouts, associated piping, level indicators, alarms, and connections. The installation includes complete plumbing installations and inspections as required by local codes. The payment shall be full compensation for the materials and work completed and accepted.

Bid Item 28 – Leachate Storage Tank and Wastewater Collection and Conveyance:

The Lump Sum Price for this item shall be payment in full for all materials, labor, and equipment required to provide and install a 30,000 gallon horizontal steel leachate storage tank with a bituminous interior coating at the location shown on the Contract Drawings. This bid item includes installation of wastewater trench drains, wastewater conveyance pipes, pump station, three (3) pumps, valves, vaults, pumps electrical panels, cleanouts, associated piping, and connections. This work also includes the installation of a concrete pad and canopy as shown on the Contract Drawings. The installation includes complete plumbing installations and inspections as required by local codes. The payment shall be full compensation for the materials and work completed and accepted.

Bid Item 29 – Site Electrical Expansion/Relocation of Utilities:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install site electrical and lighting and relocate any site utilities in accordance with the Contract Drawings. The installation includes complete electrical installations and inspections required by local State and Federal codes for the transfer station building, office/maintenance building, covered canopy, scalehouse, and general lighting. The payment shall be full compensation for the materials and work completed and inspected.

Bid Item 30 – Erosion and Sediment Control:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide site erosion and sediment control as required by the Contract Drawings and Specification. This item includes, but is not limited to, grading, installing run-on and run-off controls, silt fence, erosion control blankets, constructing berms, constructing sediment basins and sediment trap, inspection and maintenance, and removal of temporary control measures at the completion of the work and restore as necessary and acceptable to the OWNER.

Bid Item 31 – Underdrain Pipes:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install two (2) subsurface drain (i.e., underdrain) pipes. Included in this bid item are, but not limited to, perforated pipe, filter fabric, coarse aggregate, and incidentals such as excavation, disposal of the excavated material, backfill and proper compaction. The payment shall be full compensation for the materials and work completed and accepted.



Bid Item 32.A. – Stormwater Management System:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install stormwater conveyance and management structures. Included in this bid item are, but not limited to, stormwater conveyance channels, outlet barrel, stormwater culvert piping, anti-seep collars, drop inlets, junction boxes, reinforced concrete end walls, inlet and outlet protection structures, and incidentals such as excavation, disposition of the excavated material, backfill and proper compaction. The payment shall be full compensation for the materials and work completed and accepted.

Bid Item 32.B. – Sediment Basins Cleanup & Conversion:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required for dewatering and conversion of the proposed sediment basins and trap (as outlined in the sequencing protocol provided in the Contract Drawings), construction of the wet ponds' grades as shown on the Contract Drawings, installation of new concrete riser boxes and outlet structures for stormwater pond (SWP) 2, and SWP 3, lining of three (3) ponds (SWP-1A/SWP-1B, SWP-2, and SWP-3) with a minimum of 12 inches of low permeability (maximum permeability 10-5 cm/sec) cohesive soil and an additional six (6) inches of amended top soil to support vegetative growth, installation of a vegetative shelf consisting of at least three (3) diverse species of herbaceous, native, vegetation at a minimum density of 50 plants per 200 square feet of shelf area, matting and stabilization of pond slopes and embankments, survey of the final detention pond structures, and provision of record drawings for each detention pond structure.

Bid Item 33 – Landscaping:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to install the prepared landscaping plan. Work includes furnishing and installing all trees and shrubs in accordance with the prepared Landscaping Plan. This item includes, but not limited, to topsoil procurement, fertilizer and mulch application, temporary watering system installation and one year warranty on the trees and shrubs.

Bid Item 34 – Revegetation and Matting:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to restore and seed all areas disturbed by construction activities and not covered with asphalt and concrete pavement or aggregate. The work includes permanent seeding and matting of all areas not covered with asphalt in accordance with the Contract Drawings and Specifications. The payment shall be full compensation for the materials and work completed and accepted.

Bid Item 35 – Construction Phasing:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to phase/sequence the construction of this expansion project in a manner as to prevent disruption of normal site operations. The work includes incorporating traffic control measures, utilizing temporary site access roads, and sequencing construction activities. The payment shall be full compensation for the materials and work completed and accepted. This line item includes building

temporary gravel roads to maintain the existing transfer station traffic during the construction phases of the proposed transfer station.

Bid Item 36 –Chain Link Fence:

The Lump Sum Price bid for this item shall be payment in full for all materials, labor, and equipment required to provide and install a chain link fence as shown on Contract Documents. The work includes procurement and installation of 11-gauge, black plastic-coated chain link fence. The perimeter fence shall be part of the construction record documents. The payment shall be full compensation for the materials and work completed and accepted.

**PART 3 EXECUTION**

**3.01** The CONTRACTOR shall be responsible to make all measurement and calculations to determine volumes and quantities for all applications for payment submittals and final record drawings prepared by a surveyor licensed in the State of North Carolina.

**END OF SECTION 01025**

**Attachment No. 2: Revised Architectural Drawings:**

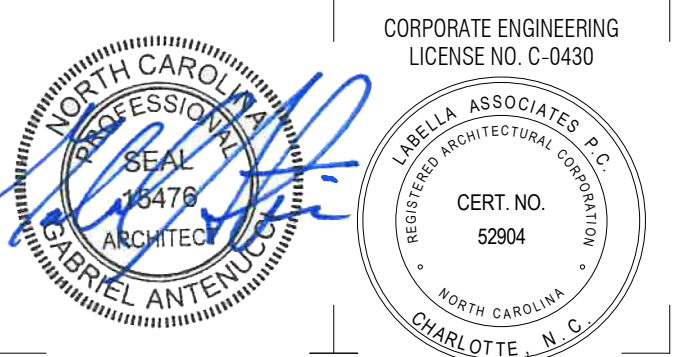
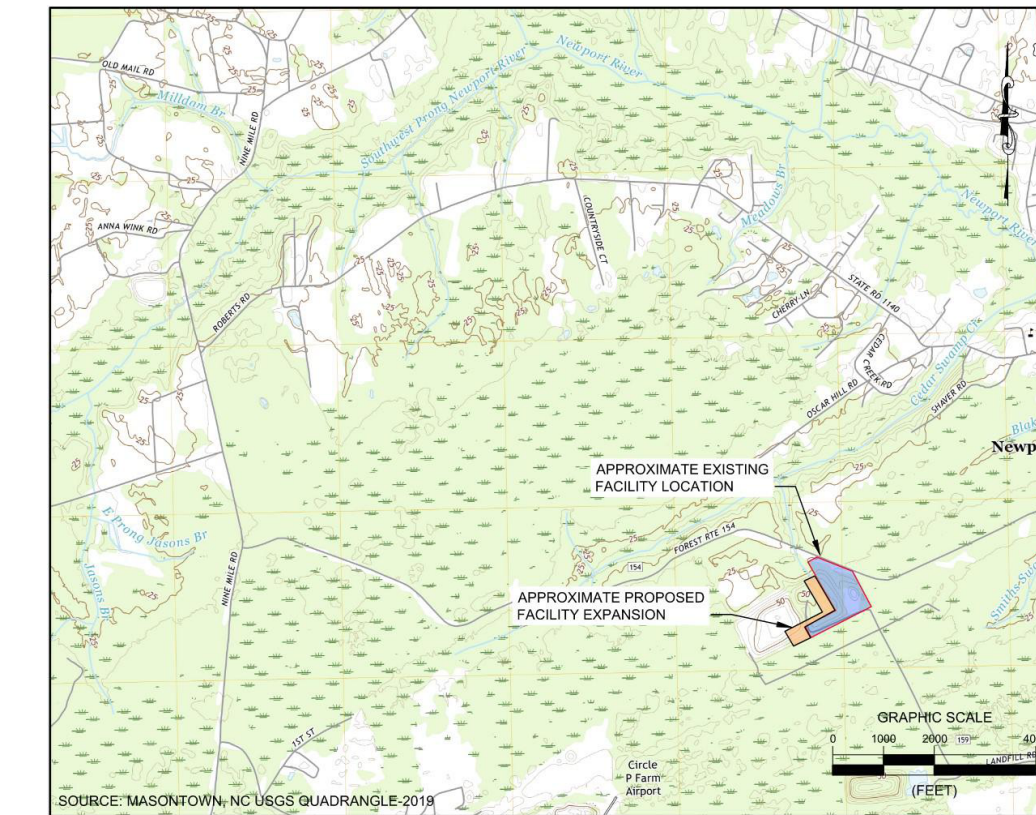
Revised Drawing No. G0001: Cover Sheet



# COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY NEWPORT TRANSFER STATION EXPANSION

CARTERET COUNTY, NORTH CAROLINA

400 S. Tryon Street, Suite 1300  
Charlotte, NC 28285  
704-376-6423  
labellapc.com  
NC LICENSE # C-0430



02.06.2024

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## COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY

7400 OLD US 70 HIGHWAY  
NEW BERN, NC 28562



## NEWPORT TRANSFER STATION EXPANSION

800 HIBBS ROAD,  
NEWPORT, NC 28570

|     |            |                       |
|-----|------------|-----------------------|
| 2   | 02.06.2024 | Bid Set - Addendum #3 |
| 1   | 01.12.2024 | Bid Set - Addendum #1 |
| NO. | DATE:      | DESCRIPTION:          |

Revisions

PROJECT NUMBER: 2201731.02

DRAWN BY: BAW

REVIEWED BY: GGA

ISSUED FOR: REBID

DATE: 12.08.2023

DRAWING NAME:

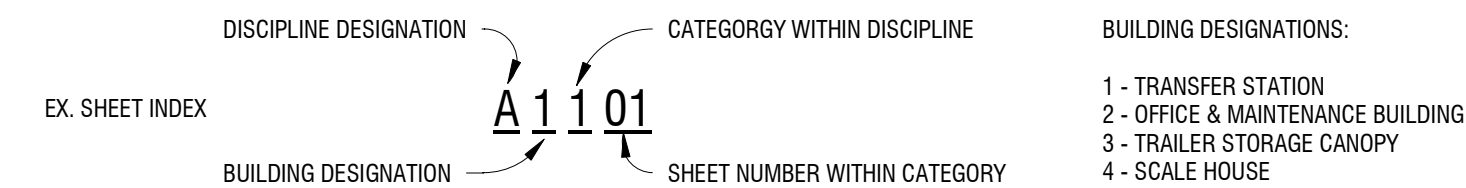
## COVER SHEET

DRAWING NUMBER:

# G0001

| OWNER INFORMATION    |   |
|----------------------|---|
| PREPARED FOR:        | COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY   |
| ADDRESS:             | P.O. BOX 128<br>COVE CITY, NC 28523   |
| CONTACT:             | BOBBY DARDEN<br>EXECUTIVE DIRECTOR<br>COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY<br>(252) 633-1564 |
| PROPERTY INFORMATION |   |
| ADDRESS:             | 800 HIBBS ROAD<br>NEWPORT, NC 28570   |
| PERMIT NO.:          | 16-04T  |
| ACREAGE:             | 20 ACRES  |

## INDEX TO DRAWINGS



| GENERAL   | STRUCTURAL   | ARCHITECTURAL  | ARCHITECTURAL CONT.   | PLUMBING   | MECHANICAL  | ELECTRICAL  |
|---|--|--|---|--|---|---|
| G0001 COVER SHEET   | S0001 GENERAL NOTES<br>S0005 SPECIAL INSPECTIONS<br>S1002 TRANSFER STATION GENERAL SCHEDULES<br>S1100 TRANSFER STATION EXTERIOR FOUNDATION PLAN<br>S1101 TRANSFER STATION EXTERIOR SLAB PLAN<br>S1102 TRANSFER STATION LOWER LEVEL FOUNDATION PLAN<br>S1103 TRANSFER STATION LOWER LEVEL SLAB PLAN<br>S1104 TRANSFER STATION SLAB AND FRAMING PLAN<br>S1601 TRANSFER STATION FOUNDATION DETAILS<br>S1602 TRANSFER STATION FOUNDATION DETAILS<br>S1603 TRANSFER STATION FOUNDATION DETAILS<br>S1604 TRANSFER STATION FOUNDATION DETAILS<br>S2002 OFFICE - MAINTENANCE BUILDING GENERAL SCHEDULES<br>S2100 OFFICE - MAINTENANCE BUILDING FOUNDATION PLAN<br>S2200 OFFICE - MAINTENANCE BUILDING FRAMING PLAN<br>S2801 OFFICE - MAINTENANCE BUILDING FOUNDATION AND FRAMING DETAILS<br>S3002 GENERAL SCHEDULES - LOADED TRAILER STORAGE SHED<br>S3100 FOUNDATION PLAN - LOADED TRAILER STORAGE SHED<br>S3601 TRAILER STORAGE FOUNDATION DETAILS<br>S4002 SCALEHOUSE GENERAL SCHEDULES<br>S4100 SCALEHOUSE FOUNDATION PLAN<br>S4200 SCALEHOUSE ROOF FRAMING PLAN<br>S7000 TYPICAL SLAB-ON-GRADE & FOUNDATION DETAILS<br>S7001 TYPICAL CONCRETE PIER DETAILS<br>S7002 TYPICAL ANCHOR BOLT DETAILS<br>S7003 TYPICAL CONCRETE WALL DETAILS<br>S7004 TYPICAL STEEL DETAILS | A0001 NOTES, SYMBOLS & ABBREVIATIONS<br>A1001 TRANSFER STATION - APPENDIX B<br>A1101 TRANSFER STATION - FLOOR PLAN<br>A1102 TRANSFER STATION - ROOF PLAN<br>A1110 TRANSFER STATION - REFLECTED CEILING PLAN<br>A1201 TRANSFER STATION - EXTERIOR ELEVATIONS<br>A1202 TRANSFER STATION - EXTERIOR ELEVATIONS<br>A1203 TRANSFER STATION - EXTERIOR ELEVATIONS<br>A1301 TRANSFER STATION - BUILDING SECTIONS<br>A1310 TRANSFER STATION - WALL SECTIONS<br>A2001 OFFICE & MAINT. BLDG - APPENDIX B<br>A2002 OFFICE & MAINT. BLDG - LIFE SAFETY PLAN<br>A2003 OFFICE & MAINT. BLDG - PARTITION TYPES<br>A2101 OFFICE & MAINT. BLDG - FIRST FLOOR PLAN<br>A2102 OFFICE & MAINT. BLDG - SECOND FLOOR PLAN<br>A2103 OFFICE & MAINT. BLDG - ROOF PLAN<br>A2110 OFFICE & MAINT. BLDG - FIRST FLOOR REFLECTED CEILING PLAN<br>A2201 OFFICE & MAINT. BLDG - EXTERIOR ELEVATIONS<br>A2202 OFFICE & MAINT. BLDG - EXTERIOR ELEVATIONS<br>A2301 OFFICE & MAINT. BLDG - BUILDING SECTIONS<br>A2302 OFFICE & MAINT. BLDG - BUILDING SECTIONS<br>A2310 OFFICE & MAINT. BLDG - WALL SECTIONS AND DETAILS<br>A2401 OFFICE & MAINT. BLDG - ENLARGED TOILET PLANS, ELEVATIONS AND TYPICAL MOUNTING HEIGHTS<br>A2402 OFFICE & MAINT. BLDG - INTERIOR ELEVATIONS AND MILLWORK DETAILS<br>A2403 OFFICE & MAINT. BLDG - STAIR PLANS, SECTIONS & DETAILS<br>A2601 OFFICE & MAINT. BLDG - DOOR & WINDOW SCHEDULE AND DETAILS<br>A2701 OFFICE & MAINT. BLDG - FIRST FLOOR FINISH PLAN | A3001 TRAILER STORAGE - APPENDIX B<br>A3101 TRAILER STORAGE - FIRST FLOOR PLAN<br>A3102 TRAILER STORAGE - ROOF PLAN<br>A3201 TRAILER STORAGE - EXTERIOR ELEVATIONS<br>A4001 SCALEHOUSE - APPENDIX B<br>A4101 SCALEHOUSE - FLOOR PLAN, ROOF PLAN, REFLECTED CEILING PLAN<br>A4201 SCALEHOUSE - BUILDING ELEVATIONS AND SECTIONS<br>A4401 SCALEHOUSE - ENLARGED PLANS, INTERIOR ELEVATIONS AND MOUNTING HEIGHTS<br>A4601 SCALEHOUSE - SCHEDULES AND DETAILS | P0001 PLUMBING LEGEND SHEET<br>P1201 TRANSFER STATION PLUMBING PLAN<br>P1202 TRANSFER STATION PLUMBING PLAN<br>P2201 OFFICE & MAINTENANCE FIRST FLOOR DOMESTIC WATER PLAN<br>P2301 OFFICE & MAINTENANCE FIRST FLOOR SANITARY/WASTE PLAN<br>P2302 OFFICE & MAINTENANCE SECOND FLOOR SANITARY/WASTE PLAN<br>P2401 OFFICE & MAINTENANCE PLUMBING ISOMETRICS<br>P2501 OFFICE & MAINTENANCE PLUMBING SCHEDULES AND DETAILS<br>P3201 CANOPY STORAGE PLUMBING PLAN<br>P4201 SCALEHOUSE PLUMBING PLAN, SCHEDULES AND DETAILS | M0001 MECHANICAL LEGEND SHEET<br>M2201 OFFICE & MAINTENANCE FIRST FLOOR DUCTWORK PLAN<br>M2601 OFFICE & MAINTENANCE MECHANICAL SCHEDULES<br>M4201 SCALEHOUSE MECHANICAL PLAN, SCHEDULES AND DETAILS<br>M7501 MECHANICAL DETAILS | E0001 ELECTRICAL COVER SHEET<br>E0002 ELECTRICAL SITE PLAN<br>E0003 ELECTRICAL SITE DETAILS<br>E0004 SERVICE YARD DETAILS AND SCHEDULES<br>E0005 LIFT STATION #1 DETAILS<br>E0006 LIFT STATION #2 DETAILS<br>E1101 TRANSFER STATION FLOOR PLAN<br>E1201 TRANSFER STATION CEILING PLAN<br>E2101 MAINTENANCE BUILDING 1ST FLOOR PLAN<br>E2102 MAINTENANCE BUILDING 2ND FLOOR PLAN<br>E2201 MAINTENANCE BUILDING 1ST FLOOR CEILING PLAN<br>E2202 MAINTENANCE BUILDING 2ND FLOOR CEILING PLAN<br>E2301 MAINTENANCE BUILDING SCHEDULES AND DETAILS<br>E3101 TRAILER CANOPY ELECTRICAL PLAN<br>E3201 TRAILER CANOPY LIGHTING PLAN<br>E4101 SCALE HOUSE POWER & LIGHTING PLANS |
| <p><b>CIVIL</b></p> <p>C-L LEGEND AND GENERAL NOTES<br/>C-0001 EXISTING CONDITIONS<br/>C-0002 DEMOLITION PLAN<br/>C-0003 SITE PLAN<br/>C-0003A CONSTRUCTION PHASING PLAN<br/>C-0004 GRADING PLAN<br/>C-0004A GRADING PLAN-INSET 1<br/>C-0004B GRADING PLAN-INSET 2<br/>C-0004C GRADING PLAN-INSET 3<br/>C-0004D GRADING PLAN-INSET 4<br/>C-0004E WASTEWATER AND SEWER ISOMETRIC DRAWING<br/>C-0005 WASTEWATER MANAGEMENT PLAN<br/>C-0006 GENERAL DETAILS<br/>C-0007 GENERAL DETAILS<br/>C-0008A SCALE DETAILS<br/>C-0008B SCALE DETAILS<br/>C-0009 EROSION AND SEDIMENT CONTROL PLAN - PHASE 1<br/>C-0010 EROSION AND SEDIMENT CONTROL PLAN - PHASE 2<br/>C-0011 EROSION AND SEDIMENT CONTROL DETAILS<br/>C-0012 EROSION AND SEDIMENT CONTROL DETAILS<br/>C-0013 EROSION AND SEDIMENT CONTROL DETAILS<br/>C-0013A STORMWATER BMP DETAIL<br/>C-0014 EROSION AND SEDIMENT CONTROL DETAILS<br/>C-0015 SEEDING SPECIFICATIONS<br/>C-0016 GROUND STABILIZATION AND MATERIAL HANDLING<br/>C-0017 INSPECTION, RECORD KEEPING, AND REPORTING<br/>C-0018 GENERAL CIVIL DETAILS<br/>LS-0001 LANDSCAPE PLAN<br/>LS-0002 LANDSCAPE DETAILS</p> <p>LaBella ASSOCIATES<br/>400 S. TRYON STREET, SUITE 1300<br/>CHARLOTTE, NC 28285<br/>704.376.6423</p> | <p>LaBella ASSOCIATES<br/>400 S. TRYON STREET, SUITE 1300<br/>CHARLOTTE, NC 28285<br/>704.376.6423</p>   | <p>LaBella ASSOCIATES<br/>400 S. TRYON STREET, SUITE 1300<br/>CHARLOTTE, NC 28285<br/>704.376.6423</p>   | <p>LaBella ASSOCIATES<br/>400 S. TRYON STREET, SUITE 1300<br/>CHARLOTTE, NC 28285<br/>704.376.6423</p>  | <p>LaBella ASSOCIATES<br/>400 S. TRYON STREET, SUITE 1300<br/>CHARLOTTE, NC 28285<br/>704.376.6423</p>   | <p>LaBella ASSOCIATES<br/>400 S. TRYON STREET, SUITE 1300<br/>CHARLOTTE, NC 28285<br/>704.376.6423</p>  | <p>LaBella ASSOCIATES<br/>400 S. TRYON STREET, SUITE 1300<br/>CHARLOTTE, NC 28285<br/>704.376.6423</p>  |



**Attachment No. 3: Revised Civil Drawings:**

Revised Drawing No. C-0003: Site Plan

Revised Drawing No. C-0009: Erosion and Sediment Control Plan – Phase 1

Revised Drawing No. C-0010: Erosion and Sediment Control Plan – Phase 2

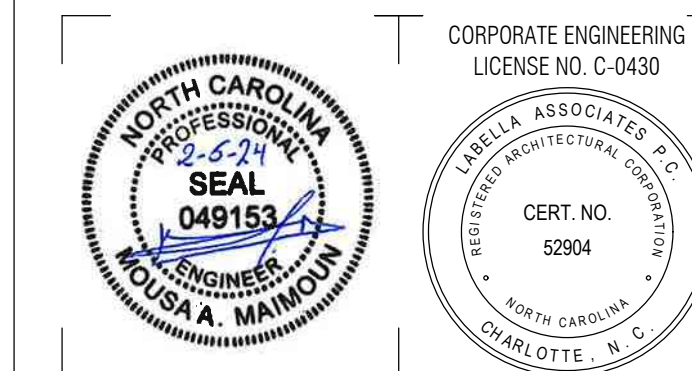
New Drawing No. C-0010A: Stormwater Management Plan

Revised Drawing No. C-0013: Erosion and Sediment Control Details

New Drawing No. C-0013A: Stormwater BMP Detail

Revised Drawing No. C-0015: Seeding Specifications





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**COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY**

7400 OLD US 70 HIGHWAY  
NEW BERN, NC 28562



**NEWPORT TRANSFER STATION EXPANSION**

800 HIBBS ROAD  
NEWPORT, NC 28570

| NO. | DATE     | DESCRIPTION             |
|-----|----------|-------------------------|
| 3   | 02/06/24 | REVISED FOR ADDENDUM #3 |
| 2   | 1/18/24  | REVISED FOR ADDENDUM #1 |
| 1   | 12/8/23  | ISSUED FOR REBID        |
| NO. | DATE     | DESCRIPTION             |

PROJECT NUMBER: 2201731.02  
DRAWN BY: RH  
REVIEWED BY: KN  
ISSUED FOR: REBID  
DATE: 12/08/23  
DRAWING NAME:

**SITE PLAN**

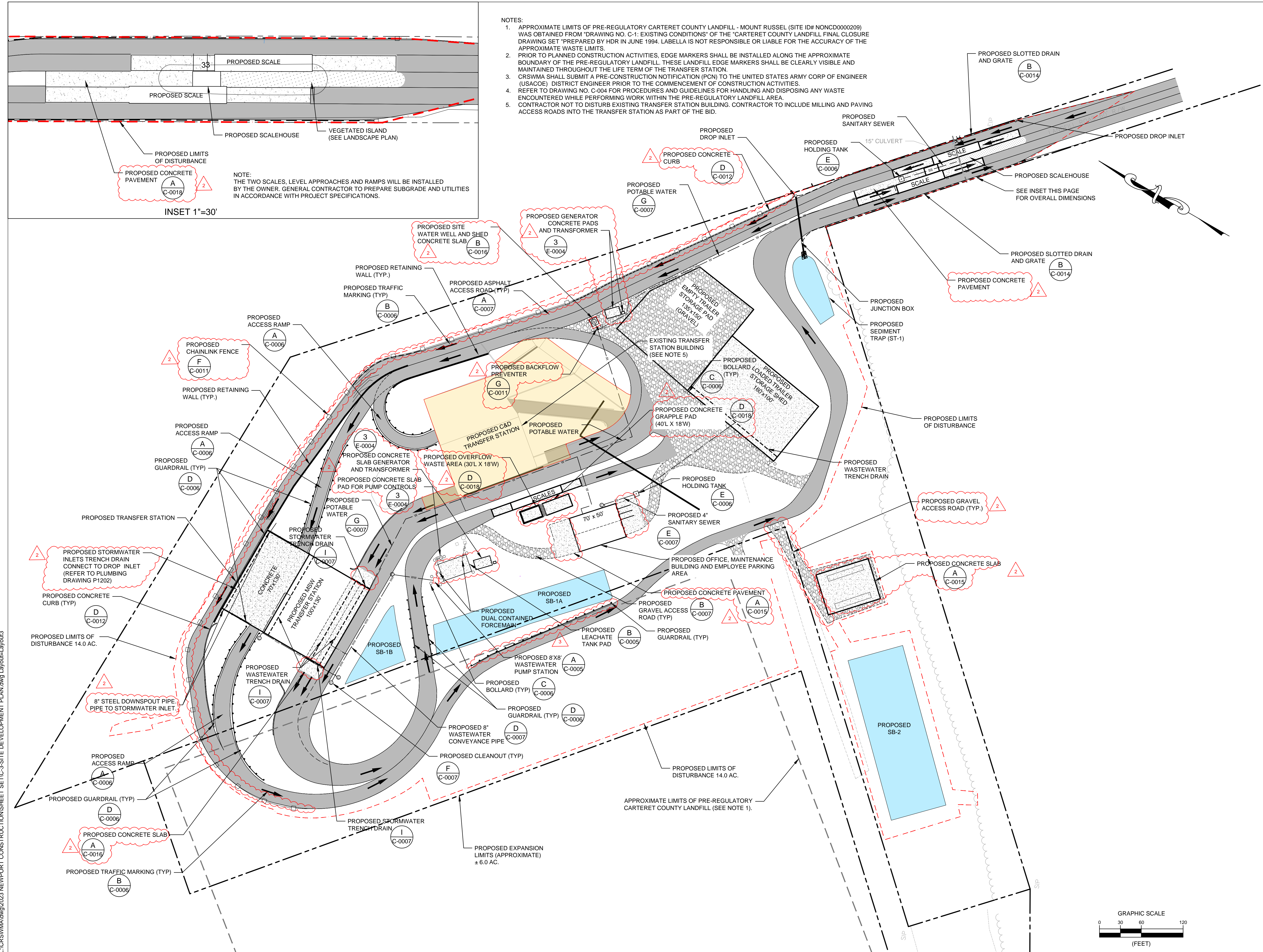
DRAWING NUMBER:

**C-0003**

**NOTES:**

- APPROXIMATE LIMITS OF PRE-REGULATORY CARTERET COUNTY LANDFILL - MOUNT RUSSEL (SITE ID# NONCD0000209) WAS OBTAINED FROM "DRAWING NO. C-1: EXISTING CONDITIONS" OF THE "CARTERET COUNTY LANDFILL FINAL CLOSURE DRAWING SET" PREPARED BY HDR IN JUNE 1994. LABELLA IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OF THE APPROXIMATE WASTE LIMITS.
- PRIOR TO PLANNED CONSTRUCTION ACTIVITIES, EDGE MARKERS SHALL BE INSTALLED ALONG THE APPROXIMATE BOUNDARY OF THE PRE-REGULATORY LANDFILL. THESE LANDFILL EDGE MARKERS SHALL BE CLEARLY VISIBLE AND MAINTAINED THROUGHOUT THE LIFE TERM OF THE TRANSFER STATION.
- CRS/WMA SHALL SUBMIT A PRE-CONSTRUCTION NOTIFICATION (PCN) TO THE UNITED STATES ARMY CORP OF ENGINEER (USACE) DISTRICT ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- REFER TO DRAWING NO. C-004 FOR PROCEDURES AND GUIDELINES FOR HANDLING AND DISPOSING ANY WASTE ENCOUNTERED WHILE PERFORMING WORK WITHIN THE PRE-REGULATORY LANDFILL AREA.
- CONTRACTOR NOT TO DISTURB EXISTING TRANSFER STATION BUILDING. CONTRACTOR TO INCLUDE MILLING AND PAVING ACCESS ROADS INTO THE TRANSFER STATION AS PART OF THE BID.

NOTE:  
THE TWO SCALES, LEVEL APPROACHES AND RAMPS WILL BE INSTALLED BY THE OWNER. GENERAL CONTRACTOR TO PREPARE SUBGRADE AND UTILITIES IN ACCORDANCE WITH PROJECT SPECIFICATIONS.



L:\CRS\WMA\2023\NEWPORT CONSTRUCTION\SET-C-3-SITE DEVELOPMENT PLAN.dwg Layout-Layout3



**CONSTRUCTION SEQUENCE**

- A. Obtain plan approval and other applicable permits.
- B. Delineate and flag the limits of construction.
- C. Hold preconstruction meeting at least one week prior to start of construction.
- D. Notify NCDDEQ's Land Quality Section at least 48 hours before commencement of construction activities.
- E. Identify construction access for construction entrance, construction routes and equipment parking areas.
- F. Construct sediment basins and sediment traps.
- G. Install temporary diversions and sediment fencing.
- H. Construct and stabilize all stormwater conveyance features.
- I. Proceed with major clearing and grading after principal sediment and key runoff-control measures are installed. Install additional control measures as grading proceeds.
- J. Apply temporary or permanent stabilization with ground cover on all disturbed areas as soon as practicable but in any event within 7 or 14 calendar days (depending on site area) from the last land-disturbing activity. Trap and basin embankments should be provided with adequate ground cover immediately upon construction.
- K. Seed and stabilize denuded areas immediately after grading is completed.
- L. Inspect all erosion and control features weekly and following each significant rainfall event. Make repairs immediately.
- M. After the site is stabilized, remove all temporary measures and establish permanent vegetation on the disturbed areas.

- NOTE:**
1. All perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1) shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 7 calendar days from the last land-disturbing activity.
  2. All other disturbed areas shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 14 calendar days from the last land-disturbing activity.
  3. All disturbed areas outside of asphalt, concrete, and gravel areas should be matted and stabilized. Seeding, matting and mulching to be installed per the Stabilization Schedule.

| CULVERT SCHEDULE |                     |            |         |          |
|------------------|---------------------|------------|---------|----------|
| PIPE NO.         | DIAMETER / TYPE (D) | LENGTH (L) | INV. IN | INV. OUT |
| P-4              | (2) 24" RCP         | 328'       | 28      | 26       |
| P-5              | 24" RCP             | 85'        | 31      | 29.5     |
| P-6              | (2) 21" RCP         | 56'        | 30      | 29.5     |
| P-8              | 18" CMP             | 61'        | 28      | 27       |
| P-9              | (2) 30" RCP         | 230'       | 29.5    | 28.5     |
| P-10             | (3) 18" RCP         | 65'        | 28.00   | 27.50    |
| P-13             | 15" RCP             | 70'        | 29.50   | 29.00    |

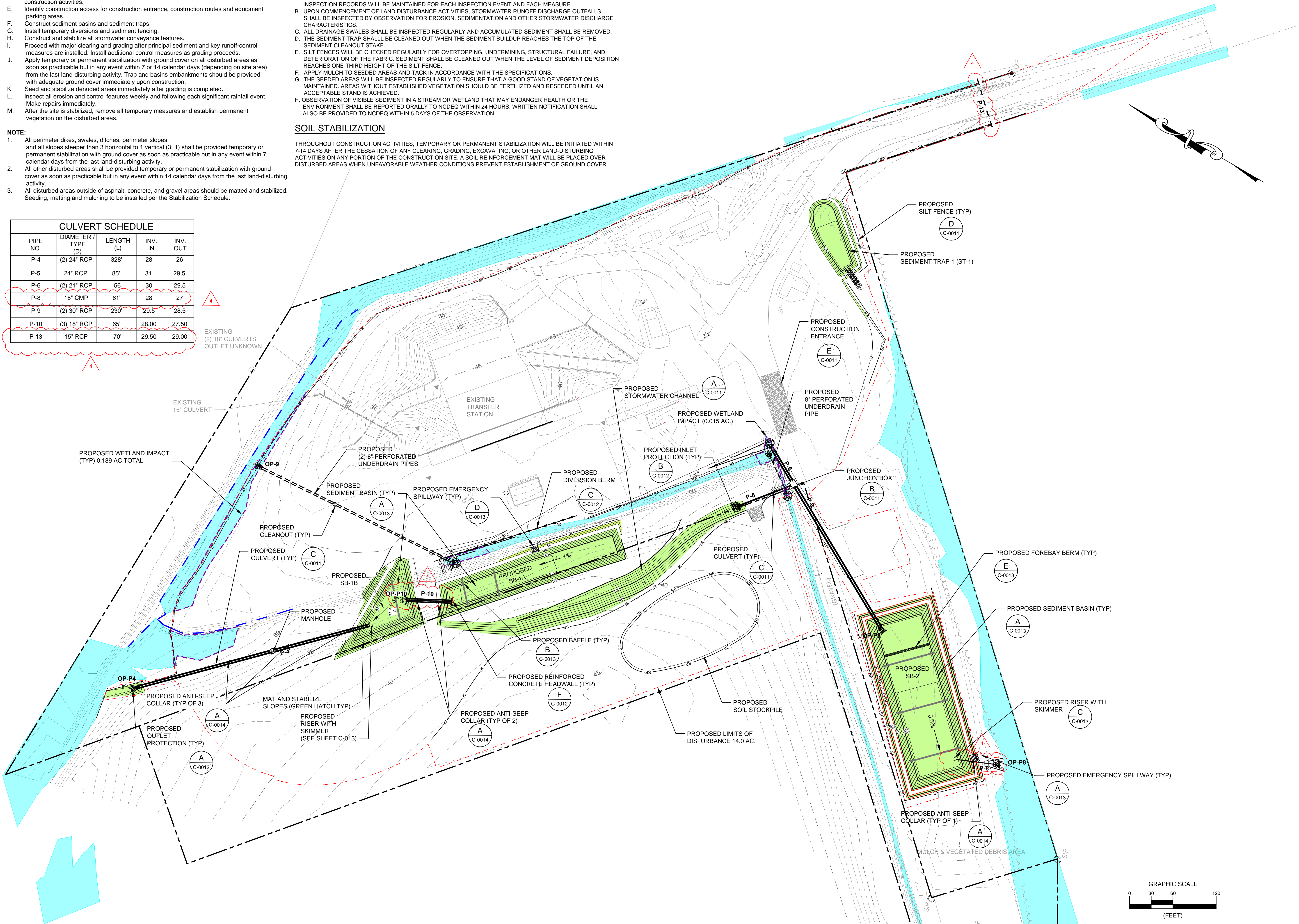
**EROSION CONTROL MAINTENANCE**

- BMP MEASURES WILL BE INSPECTED REGULARLY DURING CONSTRUCTION AND AFTER EACH RAINFALL THAT PRODUCES 0.5 INCHES OR MORE OF PRECIPITATION. THE FOLLOWING ITEMS WILL BE PART OF ROUTINE MAINTENANCE DURING CONSTRUCTION:
- A. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED WEEKLY DURING CONSTRUCTION, AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIOD. INSPECTION RECORDS WILL BE MAINTAINED FOR EACH INSPECTION EVENT AND EACH MEASURE.
  - B. UPON COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES, STORMWATER RUNOFF DISCHARGE OUTFALLS SHALL BE INSPECTED BY OBSERVATION FOR EROSION, SEDIMENTATION AND OTHER STORMWATER DISCHARGE CHARACTERISTICS.
  - C. ALL DRAINAGE SWALES SHALL BE INSPECTED REGULARLY AND ACCUMULATED SEDIMENT SHALL BE REMOVED.
  - D. THE SEDIMENT TRAP SHALL BE CLEANED OUT WHEN THE SEDIMENT BUILDUP REACHES THE TOP OF THE SEDIMENT CLEANOUT STAKE.
  - E. SILT FENCES WILL BE CHECKED REGULARLY FOR OVERTOPPING, UNDERMINING, STRUCTURAL FAILURE, AND DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES ONE-THIRD HEIGHT OF THE SILT FENCE.
  - F. APPLY MULCH TO SEEDED AREAS AND TACK IN ACCORDANCE WITH THE SPECIFICATIONS.
  - G. THE SEEDED AREAS WILL BE INSPECTED REGULARLY TO ENSURE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. AREAS WITHOUT ESTABLISHED VEGETATION SHOULD BE FERTILIZED AND RESEEDED UNTIL AN ACCEPTABLE STAND IS ACHIEVED.
  - H. OBSERVATION OF VISIBLE SEDIMENT IN A STREAM OR WETLAND THAT MAY ENDANGER HEALTH OR THE ENVIRONMENT SHALL BE REPORTED ORALLY TO NCDDEQ WITHIN 24 HOURS. WRITTEN NOTIFICATION SHALL ALSO BE PROVIDED TO NCDDEQ WITHIN 5 DAYS OF THE OBSERVATION.

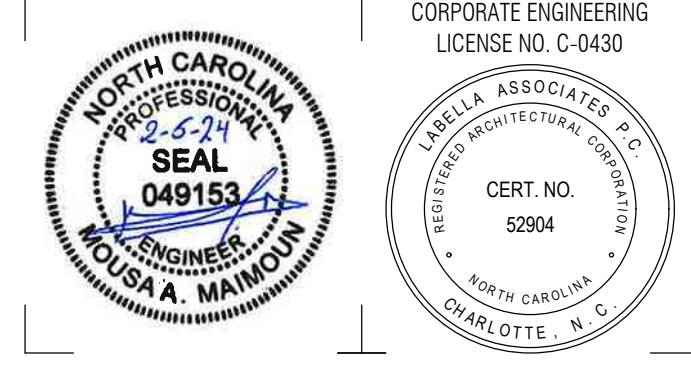
**SOIL STABILIZATION**

THROUGHOUT CONSTRUCTION ACTIVITIES, TEMPORARY OR PERMANENT STABILIZATION WILL BE INITIATED WITHIN 7-14 DAYS AFTER THE CESSATION OF ANY CLEARING, GRADING, EXCAVATING, OR OTHER LAND-DISTURBING ACTIVITIES ON ANY PORTION OF THE CONSTRUCTION SITE. A SOIL REINFORCEMENT MAT WILL BE PLACED OVER DISTURBED AREAS WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF GROUND COVER.

L:\CRS\WMA\2023 NEWPORT CONSTRUCTION\SET\C-0009 EROSION AND SEDIMENT CONTROL PLAN PHASE 1.dwg Layout=Layout1



400 S. TRYON STREET  
CHARLOTTE, NC 28285  
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NC LICENSE # C-0430  
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**COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY**  
7400 OLD US 70 HIGHWAY  
NEW BERN, NC 28562



**NEWPORT TRANSFER STATION EXPANSION**  
800 HIBBS ROAD  
NEWPORT, NC 28570

| NO. | DATE      | DESCRIPTION             |
|-----|-----------|-------------------------|
| 4   | 2/6/24    | REVISED FOR ADDENDUM #3 |
| 3   | 1/31/2024 | REVISED FOR ADDENDUM #2 |
| 2   | 1/18/24   | REVISED FOR ADDENDUM #1 |
| 1   | 12/8/23   | ISSUED FOR REBID        |

PROJECT NUMBER: 2201731.02  
DRAWN BY: RH  
REVIEWED BY: KN  
ISSUED FOR: REBID  
DATE: 12/08/23  
DRAWING NAME:

**EROSION AND SEDIMENT CONTROL PLAN - PHASE 1**

DRAWING NUMBER:

**C-0009**



**CONSTRUCTION SEQUENCE**

- A. Obtain plan approval and other applicable permits.
- B. Delineate and flag the limits of construction.
- C. Hold preconstruction meeting at least one week prior to start of construction.
- D. Notify NCDEQ's Land Quality Section at least 48 hours before commencement of construction activities.
- E. Identify construction access for construction entrance, construction routes and equipment parking areas.
- F. Construct sediment basins and sediment traps.
- G. Install temporary diversions and sediment fencing.
- H. Construct and stabilize all stormwater conveyance features.
- I. Proceed with major clearing and grading after principal sediment and key runoff-control measures are installed. Install additional control measures as grading proceeds.
- J. Apply temporary or permanent stabilization with ground cover on all disturbed areas as soon as practicable but in any event within 7 or 14 calendar days (depending on site area) from the last land-disturbing activity. Trap and basin embankments should be provided with adequate ground cover immediately upon construction.
- K. Seed and stabilize denuded areas immediately after grading is completed.
- L. Inspect all erosion and control features weekly and following each significant rainfall event. Make repairs immediately.
- M. After the site is stabilized, remove all temporary measures and establish permanent vegetation on the disturbed areas.

- NOTE:**
1. All perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1) shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 7 calendar days from the last land-disturbing activity.
  2. All other disturbed areas shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 14 calendar days from the last land-disturbing activity.
  3. All disturbed areas outside of asphalt, concrete, and gravel areas should be matted and stabilized. Seeding, matting and mulching to be installed per the Stabilization Schedule.
  4. See sediment basin conversion sequencing protocol on sheet C-L.

| CULVERT SCHEDULE |                     |            |         |          |
|------------------|---------------------|------------|---------|----------|
| PIPE NO.         | DIAMETER / TYPE (D) | LENGTH (L) | INV. IN | INV. OUT |
| P-1A             | 15" RCP             | 120'       | 32.20   | 31.00    |
| P-1B             | 18" RCP             | 110'       | 31.20   | 29.00    |
| P-1C             | 18" RCP             | 75'        | 30.00   | 29.00    |
| P-2              | 24" CMP             | 80'        | 29.80   | 29.00    |
| P-3A             | 15" RCP             | 63'        | 30.75   | 30.00    |
| P-3B             | 15" RCP             | 23'        | 30.00   | 29.50    |
| P-4              | (2) 24" RCP         | 328'       | 28.00   | 26.00    |
| P-5              | 24" RCP             | 85'        | 31.00   | 29.50    |
| P-6              | (2) 21" RCP         | 56'        | 30.00   | 29.50    |
| P-7A             | 15" RCP             | 124'       | 32.25   | 31.00    |
| P-7B             | 18" RCP             | 120'       | 31.00   | 29.00    |
| P-8              | 18" CMP             | 61'        | 28.00   | 27.00    |
| P-9              | (2) 30" RCP         | 230'       | 29.50   | 28.25    |
| P-10             | (3) 18" RCP         | 65'        | 28.00   | 27.50    |
| P-11             | 12" RCP             | 60'        | 33.50   | 32.50    |
| P-12             | 12" RCP             | 201'       | 32.00   | 29.50    |
| P-13             | 15" RCP             | 70'        | 29.50   | 29.00    |

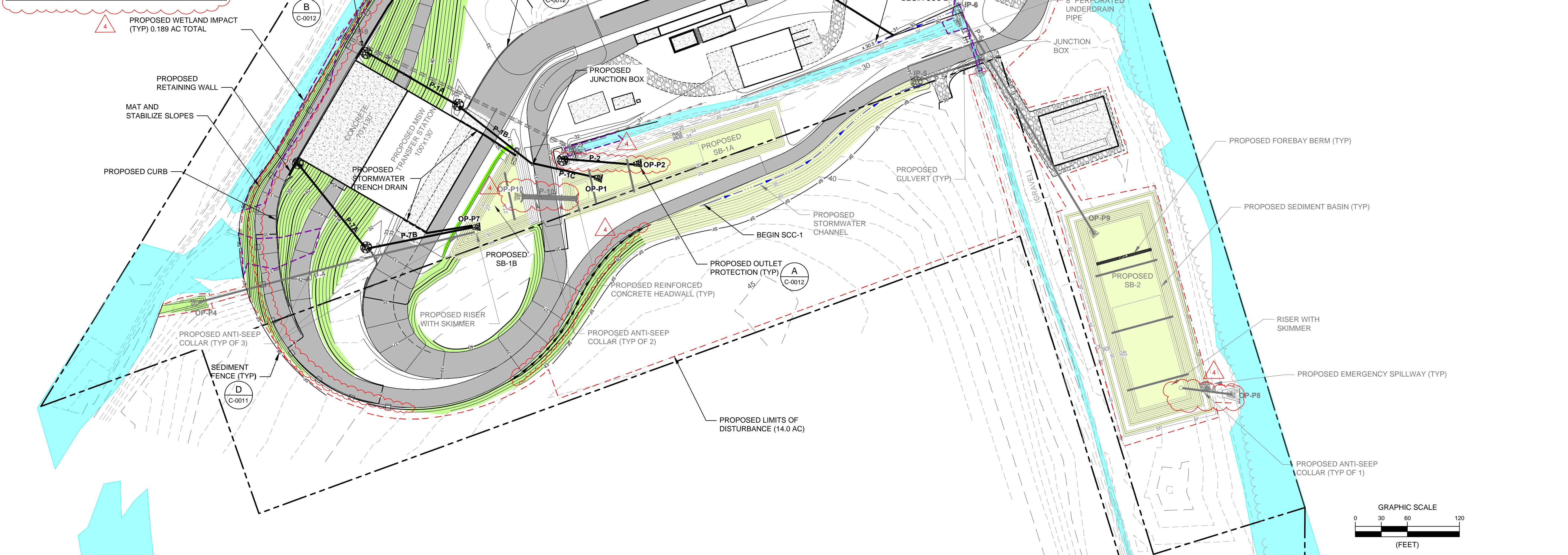
**EROSION CONTROL MAINTENANCE**

- BMP MEASURES WILL BE INSPECTED REGULARLY DURING CONSTRUCTION AND AFTER EACH RAINFALL THAT PRODUCES 0.5 INCHES OR MORE OF PRECIPITATION. THE FOLLOWING ITEMS WILL BE PART OF ROUTINE MAINTENANCE DURING CONSTRUCTION:
- A. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED WEEKLY DURING CONSTRUCTION, AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIOD. INSPECTION RECORDS WILL BE MAINTAINED FOR EACH INSPECTION EVENT AND EACH MEASURE.
  - B. UPON COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES, STORMWATER RUNOFF DISCHARGE OUTFALLS SHALL BE INSPECTED BY OBSERVATION FOR EROSION, SEDIMENTATION AND OTHER STORMWATER DISCHARGE CHARACTERISTICS.
  - C. ALL DRAINAGE SWALES SHALL BE INSPECTED REGULARLY AND ACCUMULATED SEDIMENT SHALL BE REMOVED.
  - D. THE SEDIMENT TRAP SHALL BE CLEANED OUT WHEN THE SEDIMENT BUILDUP REACHES THE TOP OF THE SEDIMENT CLEANOUT STAKE.
  - E. SILT FENCES WILL BE CHECKED REGULARLY FOR OVERTOPPING, UNDERMINING, STRUCTURAL FAILURE, AND DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES ONE-THIRD HEIGHT OF THE SILT FENCE.
  - F. APPLY MULCH TO SEEDED AREAS AND TACK IN ACCORDANCE WITH THE SPECIFICATIONS.
  - G. THE SEEDED AREAS WILL BE INSPECTED REGULARLY TO ENSURE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. AREAS WITHOUT ESTABLISHED VEGETATION SHOULD BE FERTILIZED AND RESEEDED UNTIL AN ACCEPTABLE STAND IS ACHIEVED.
  - H. OBSERVATION OF VISIBLE SEDIMENT IN A STREAM OR WETLAND THAT MAY ENDANGER HEALTH OR THE ENVIRONMENT SHALL BE REPORTED ORALLY TO NCDEQ WITHIN 24 HOURS. WRITTEN NOTIFICATION SHALL ALSO BE PROVIDED TO NCDEQ WITHIN 5 DAYS OF THE OBSERVATION.

**SOIL STABILIZATION**

THROUGHOUT CONSTRUCTION ACTIVITIES, TEMPORARY OR PERMANENT STABILIZATION WILL BE INITIATED WITHIN 7-14 DAYS AFTER THE CESSATION OF ANY CLEARING, GRADING, EXCAVATING, OR OTHER LAND-DISTURBING ACTIVITIES ON ANY PORTION OF THE CONSTRUCTION SITE. A SOIL REINFORCEMENT MAT WILL BE PLACED OVER DISTURBED AREAS WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF GROUND COVER.

PROPOSED WETLAND IMPACT (TYP) 0.189 AC TOTAL



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**SEAL**  
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NORTH CAROLINA  
CHARLOTTE, N.C.

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**COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY**

7400 OLD US 70 HIGHWAY  
NEW BERN, NC 28562

**THE COASTAL ENVIRONMENTAL PARTNERSHIP**  
COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY

**NEWPORT TRANSFER STATION EXPANSION**

800 HIBBS ROAD  
NEWPORT, NC 28570

| NO. | DATE      | DESCRIPTION             |
|-----|-----------|-------------------------|
| 4   | 2/6/24    | REVISED FOR ADDENDUM #3 |
| 3   | 1/31/2024 | REVISED FOR ADDENDUM #2 |
| 2   | 1/18/24   | REVISED FOR ADDENDUM #1 |
| 1   | 12/8/23   | ISSUED FOR REBID        |

PROJECT NUMBER: 2201731.02

DRAWN BY: RH

REVIEWED BY: KN

ISSUED FOR: REBID

DATE: 12/08/23

DRAWING NAME:

**EROSION AND SEDIMENT CONTROL PLAN - PHASE 2**

DRAWING NUMBER:

**C-0010**

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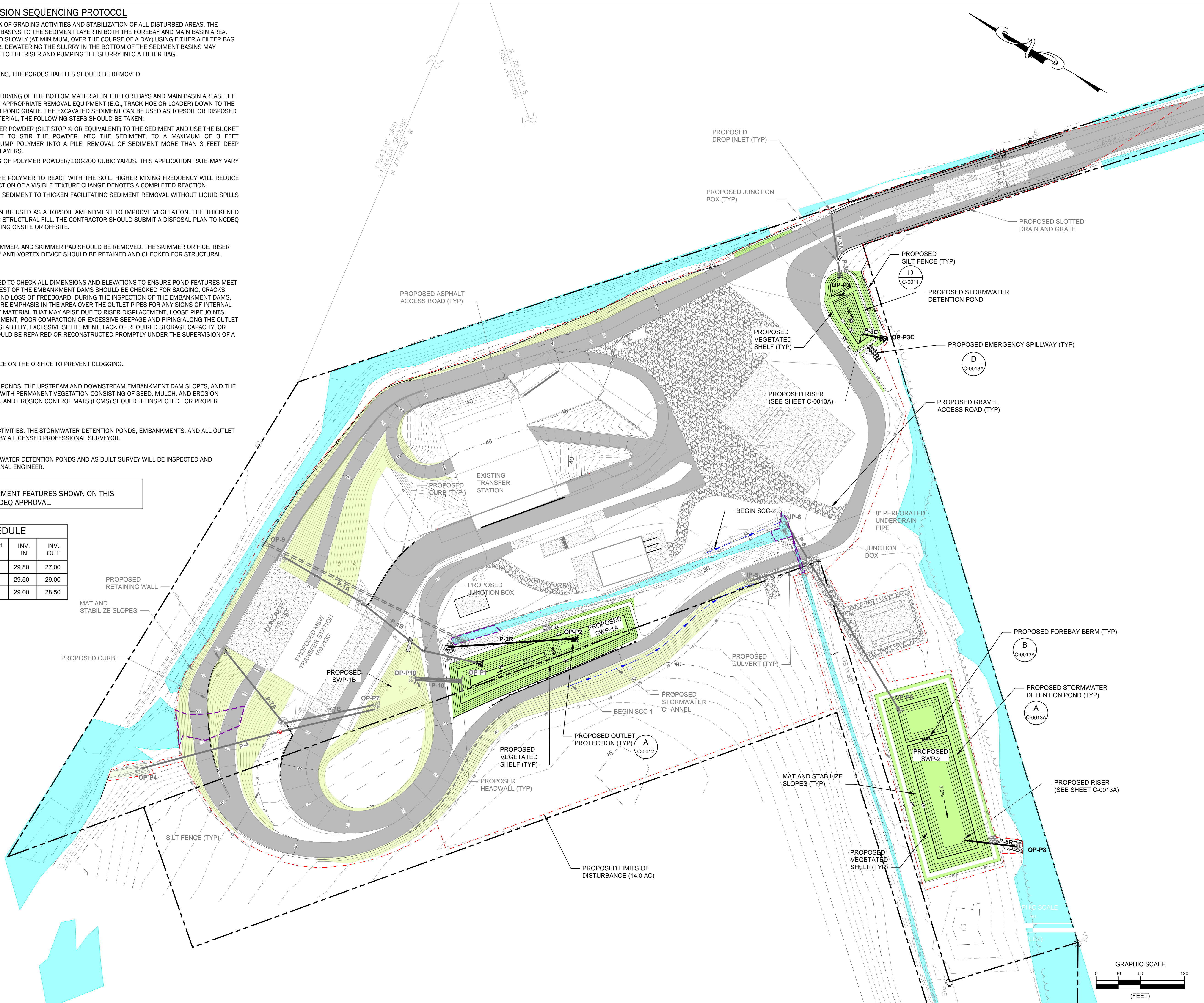


**SEDIMENT BASINS CONVERSION SEQUENCING PROTOCOL**

1. AFTER THE COMPLETION OF THE BULK OF GRADING ACTIVITIES AND STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR SHOULD DEWATER THE BASINS TO THE SEDIMENT LAYER IN BOTH THE FOREBAY AND MAIN BASIN AREA. DEWATERING SHOULD BE PERFORMED SLOWLY (AT MINIMUM, OVER THE COURSE OF A DAY) USING EITHER A FILTER BAG OR A SMALL CLARIFICATION CHAMBER. DEWATERING THE SLURRY IN THE BOTTOM OF THE SEDIMENT BASINS MAY REQUIRE DIGGING A SMALL PIT CLOSE TO THE RISER AND PUMPING THE SLURRY INTO A FILTER BAG.
2. AFTER THE DEWATERING OF THE BASINS, THE POROUS BAFFLES SHOULD BE REMOVED.
3. UPON SUFFICIENT DEWATERING AND DRYING OF THE BOTTOM MATERIAL IN THE FOREBAYS AND MAIN BASIN AREAS, THE SEDIMENT MAY BE SCOOPED WITH AN APPROPRIATE REMOVAL EQUIPMENT (E.G., TRACK HOE OR LOADER) DOWN TO THE BOTTOM OF THE PLANNED DETENTION POND GRADE. THE EXCAVATED SEDIMENT CAN BE USED AS TOPSOIL OR DISPOSED OF. IN THE CASE OF WET BOTTOM MATERIAL, THE FOLLOWING STEPS SHOULD BE TAKEN:
  - a. APPLY A FLOCCULATING POLYMER POWDER (SILT STOP ® OR EQUIVALENT) TO THE SEDIMENT AND USE THE BUCKET OF THE REMOVAL EQUIPMENT TO STIR THE POWDER INTO THE SEDIMENT, TO A MAXIMUM OF 3 FEET DEEP/APPLICATION. DO NOT DUMP POLYMER INTO A PILE. REMOVAL OF SEDIMENT MORE THAN 3 FEET DEEP SHOULD BE ACCOMPLISHED IN LAYERS.
  - b. APPLICATION RATE: 50 POUNDS OF POLYMER POWDER/100-200 CUBIC YARDS. THIS APPLICATION RATE MAY VARY WITH SOIL TYPE AND CONTENT.
  - c. ALLOW 10-15 MINUTES FOR THE POLYMER TO REACT WITH THE SOIL. HIGHER MIXING FREQUENCY WILL REDUCE THE REACTION TIME. THE DETECTION OF A VISIBLE TEXTURE CHANGE DENOTES A COMPLETED REACTION.
  - d. THE POLYMER WILL CAUSE THE SEDIMENT TO THICKEN FACILITATING SEDIMENT REMOVAL WITHOUT LIQUID SPILLS OR DRIPPING.
  - e. THE THICKENED SEDIMENT CAN BE USED AS A TOPSOIL AMENDMENT TO IMPROVE VEGETATION. THE THICKENED MATERIAL IS NOT SUITABLE FOR STRUCTURAL FILL. THE CONTRACTOR SHOULD SUBMIT A DISPOSAL PLAN TO NCDEQ FOR APPROVAL BEFORE DISPOSING ONSITE OR OFFSITE.
4. THE SEDIMENT CLEANOUT STAKE, SKIMMER, AND SKIMMER PAD SHOULD BE REMOVED. THE SKIMMER ORIFICE, RISER BOX, FOREBAY, TRASH RACK, AND ANY ANTI-VORTEX DEVICE SHOULD BE RETAINED AND CHECKED FOR STRUCTURAL INTEGRITY.
5. THE WET PONDS SHOULD BE SURVEYED TO CHECK ALL DIMENSIONS AND ELEVATIONS TO ENSURE POND FEATURES MEET THE DESIGN SPECIFICATIONS. THE CREST OF THE EMBANKMENT DAMS SHOULD BE CHECKED FOR SAGGING, CRACKS, SLUMPING, DEPRESSIONS, BULGES, AND LOSS OF FREEBOARD. DURING THE INSPECTION OF THE EMBANKMENT DAMS, THE CONTRACTOR SHOULD PLACE MORE EMPHASIS IN THE AREA OVER THE OUTLET PIPES FOR ANY SIGNS OF INTERNAL EROSION AND LOSS OF EMBANKMENT MATERIAL THAT MAY ARISE DUE TO RISER DISPLACEMENT, LOOSE PIPE JOINTS, CRUSHED PIPE, DIFFERENTIAL SETTLEMENT, POOR COMPACTION OR EXCESSIVE SEEPAGE AND PIPING ALONG THE OUTLET PIPE. ANY DAMAGE, EMBANKMENT INSTABILITY, EXCESSIVE SETTLEMENT, LACK OF REQUIRED STORAGE CAPACITY, OR HYDRAULIC CONTROL PROBLEMS SHOULD BE REPAIRED OR RECONSTRUCTED PROMPTLY UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER.
6. INSTALL A DEBRIS/TRASH RACK DEVICE ON THE ORIFICE TO PREVENT CLOGGING.
7. THE SIDES AND BOTTOM OF THE WET PONDS, THE UPSTREAM AND DOWNSTREAM EMBANKMENT DAM SLOPES, AND THE DAM CRESTS SHOULD BE STABILIZED WITH PERMANENT VEGETATION CONSISTING OF SEED, MULCH, AND EROSION CONTROL MATTING. SEEDING, MULCH, AND EROSION CONTROL MATS (ECMS) SHOULD BE INSPECTED FOR PROPER INSTALLATION.
8. UPON COMPLETION OF THE ABOVE ACTIVITIES, THE STORMWATER DETENTION PONDS, EMBANKMENTS, AND ALL OUTLET STRUCTURES SHOULD BE SURVEYED BY A LICENSED PROFESSIONAL SURVEYOR.
9. THE COMPLETED PERMANENT STORMWATER DETENTION PONDS AND AS-BUILT SURVEY WILL BE INSPECTED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.

**NOTE:**  
THE STORMWATER MANAGEMENT FEATURES SHOWN ON THIS DRAWING ARE PENDING NCDEQ APPROVAL.

| CULVERT SCHEDULE |                     |            |         |          |
|------------------|---------------------|------------|---------|----------|
| PIPE NO.         | DIAMETER / TYPE (D) | LENGTH (L) | INV. IN | INV. OUT |
| P-2R             | 24" RCP             | 173'       | 29.80   | 27.00    |
| P-3C             | 12" RCP             | 30'        | 29.50   | 29.00    |
| P-8R             | 18" RCP             | 71'        | 29.00   | 28.50    |



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**COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY**

7400 OLD US 70 HIGHWAY  
NEW BERN, NC 28562



**NEWPORT TRANSFER STATION EXPANSION**

800 HIBBS ROAD  
NEWPORT, NC 28570

| NO. | DATE   | DESCRIPTION                      |
|-----|--------|----------------------------------|
| 1   | 2/6/24 | THIS SHEET ADDED FOR ADDENDUM #3 |

PROJECT NUMBER: 2201731.02

DRAWN BY: RH

REVIEWED BY: KN

ISSUED FOR: REBID

DATE: 2/6/24

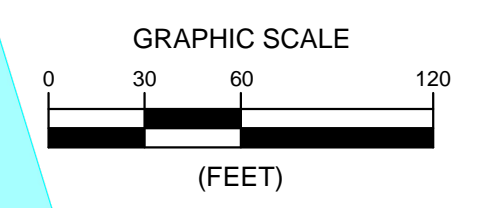
DRAWING NAME:

**STORMWATER MANAGEMENT PLAN**

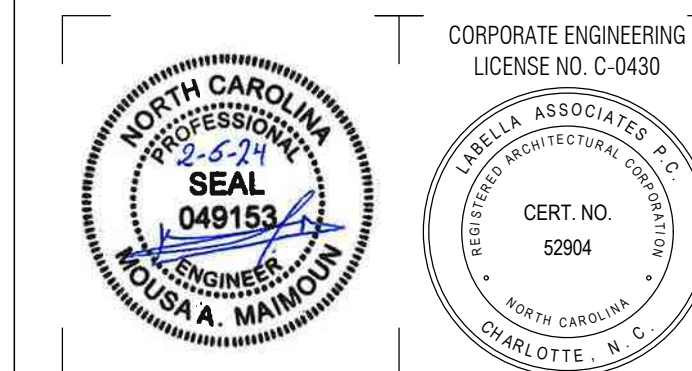
DRAWING NUMBER:

**C-0010A**

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NEW BERN, NC 28562



**NEWPORT TRANSFER STATION EXPANSION**

800 HIBBS ROAD  
NEWPORT, NC 28570

| NO. | DATE     | DESCRIPTION             |
|-----|----------|-------------------------|
| 2   | 2/6/2024 | REVISED FOR ADDENDUM #3 |
| 1   | 1/18/24  | ISSUED FOR ADDENDUM #1  |

PROJECT NUMBER: 2201731.02

DRAWN BY: RH  
REVIEWED BY: KN

ISSUED FOR: REBID

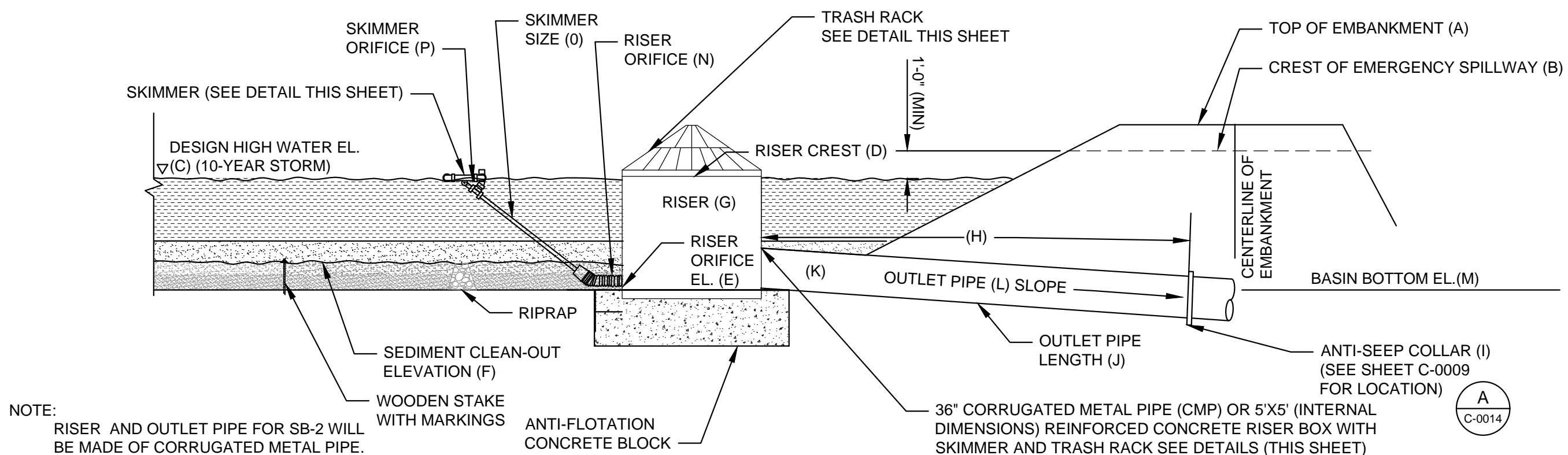
DATE: 12/08/23

DRAWING NAME:

**EROSION AND SEDIMENT CONTROL DETAILS**

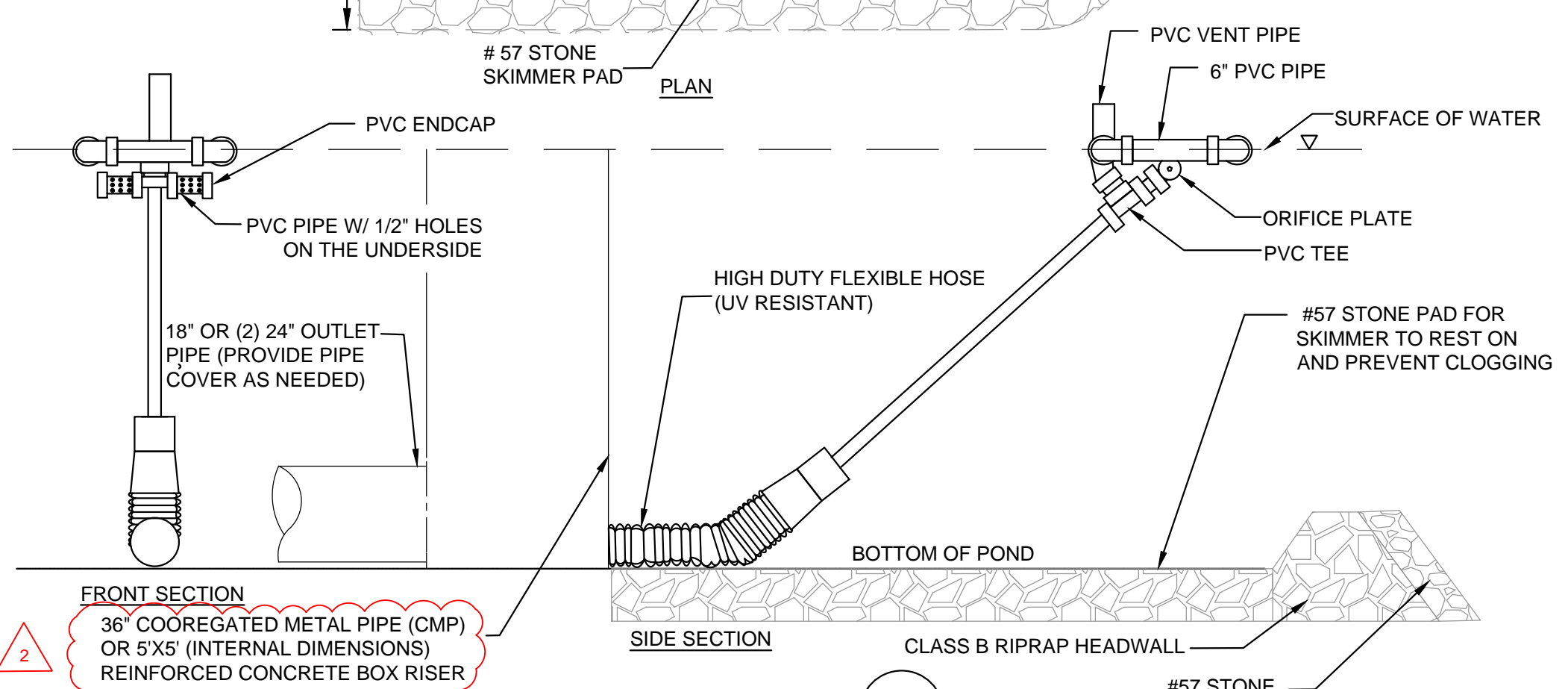
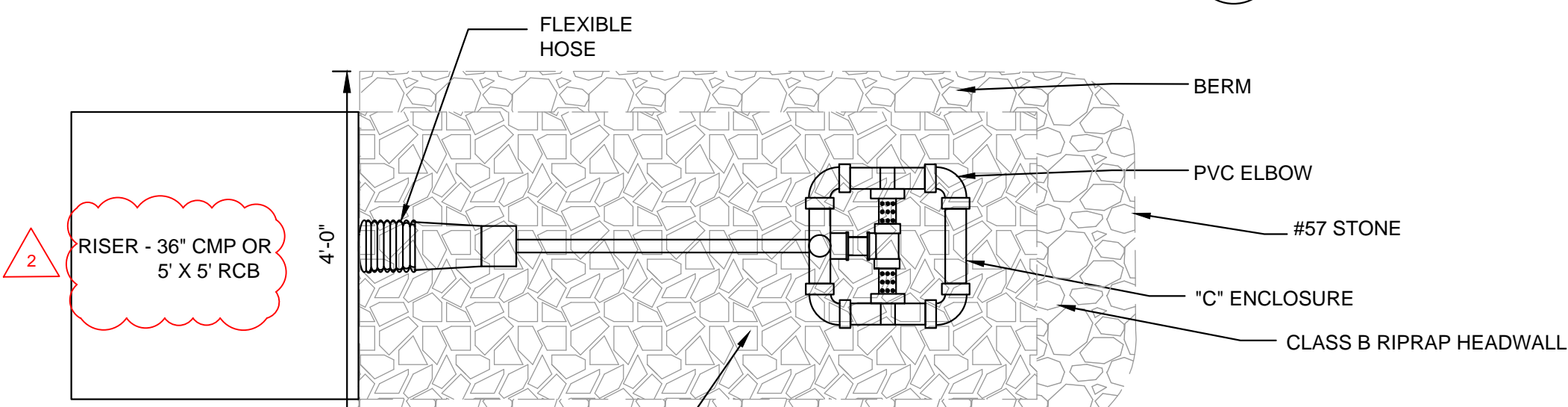
DRAWING NUMBER:

**C-0013**

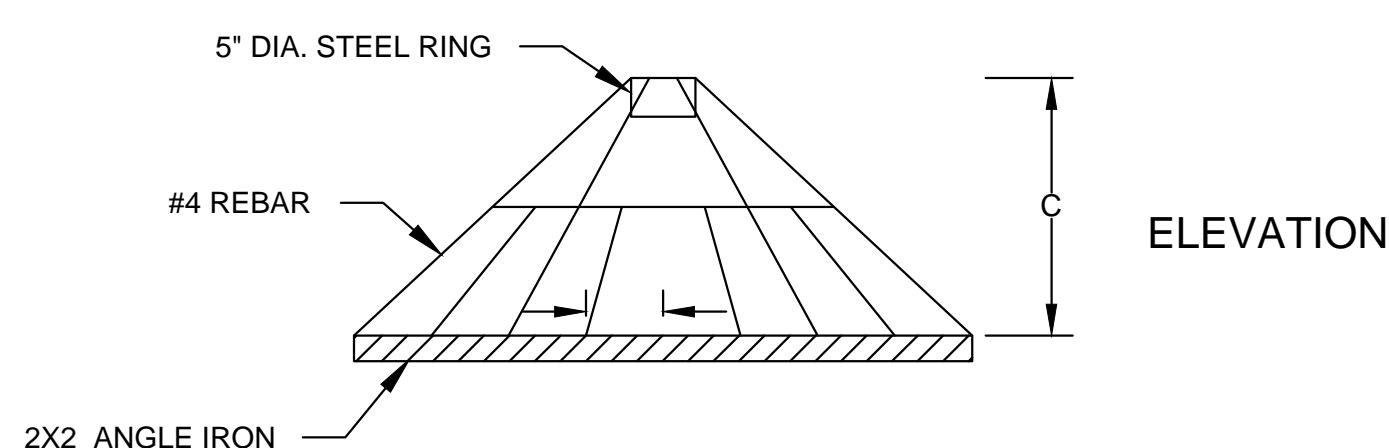


| S.B. # | A  | B  | C     | D  | E  | F  | G       | H   | I       | J    | K           | L   | M  | N  | O  | P     |
|--------|----|----|-------|----|----|----|---------|-----|---------|------|-------------|-----|----|----|----|-------|
| SB-1B  | 33 | 32 | 30.46 | 30 | 27 | 28 | 5' X 5' | 22' | 6' X 4' | 328' | (2) 24" RCP | 0.6 | 27 | 8" | 6" | 5.75' |
| SB-2   | 36 | 35 | 32.02 | 33 | 28 | 29 | 36"     | 24' | 4' X 4' | 51'  | 18" CMP     | 1.6 | 28 | 7" | 5" | 5"    |

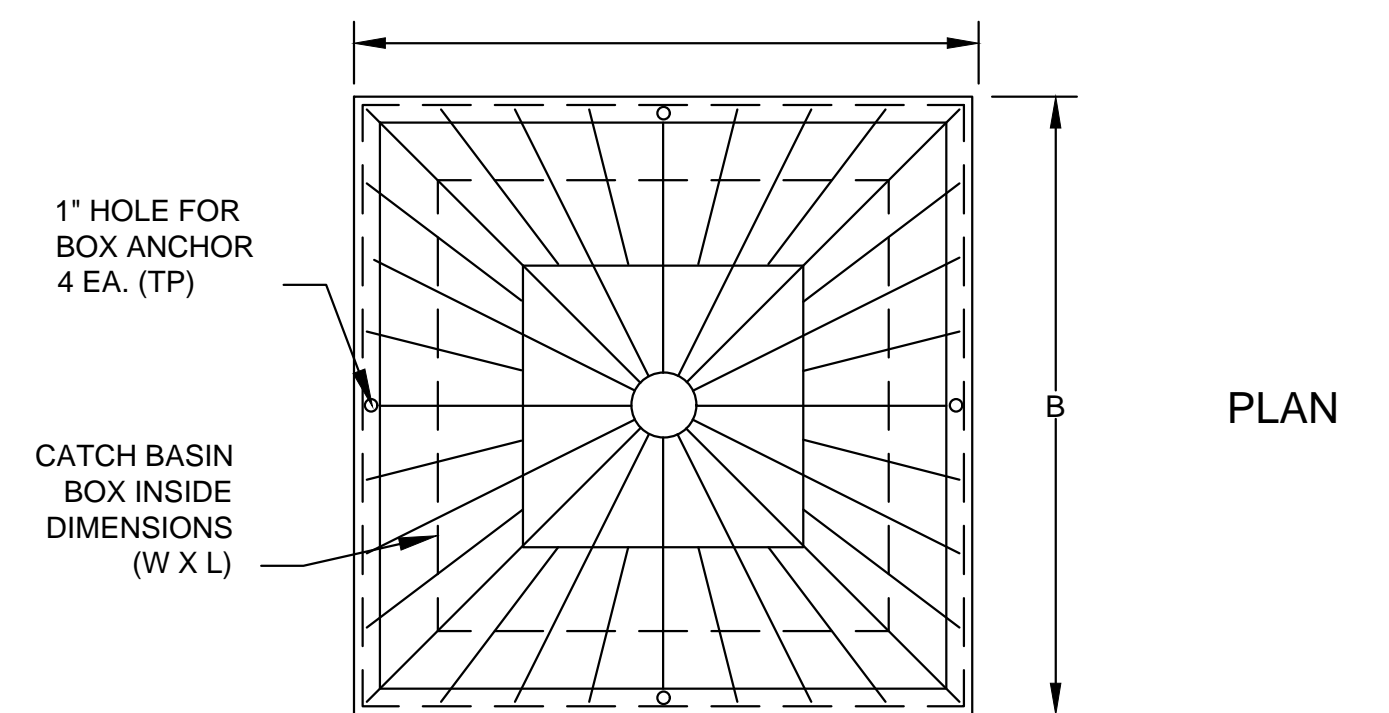
**SEDIMENT BASIN PARTIAL SECTION A**  
N.T.S.



**RISER WITH SKIMMER DETAIL C**  
N.T.S.



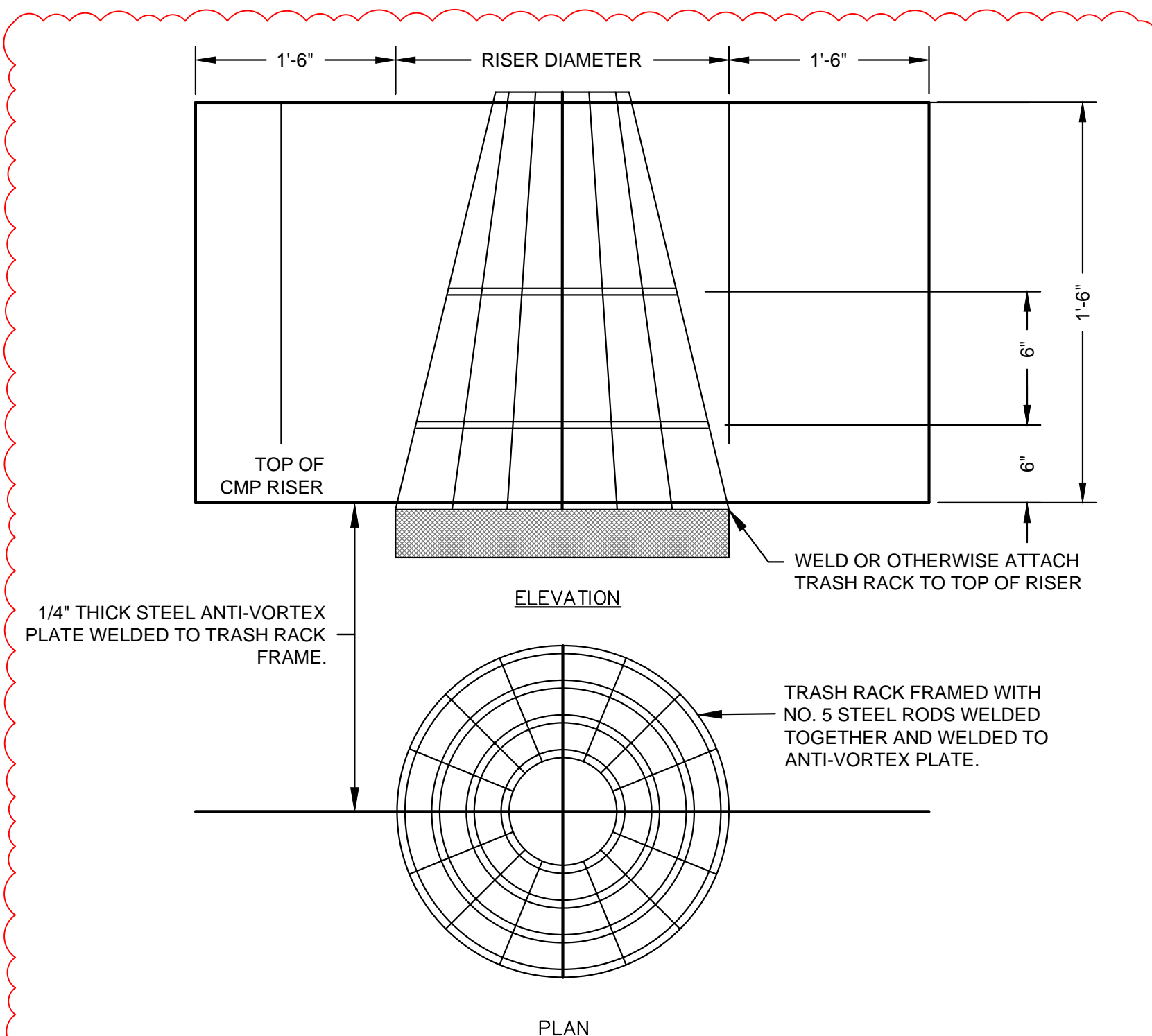
**ELEVATION**



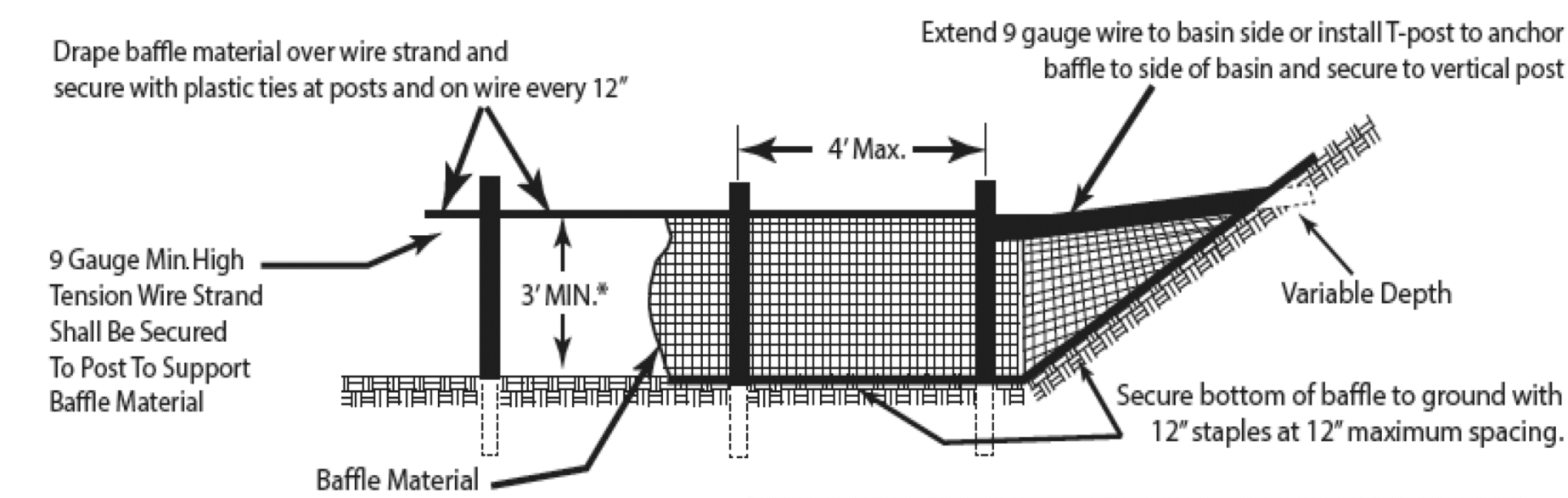
**PLAN**

| DESCRIPTION I.D. (WXL)  | DIM. A | DIM. B | DIM. C |
|-------------------------|--------|--------|--------|
| 5' X 5' CATCH BASIN BOX | 6'-2"  | 6'-2"  | 1'-2"  |

NOTES:  
1. TRASH RACKS TO BE COATED WITH GALVANIZING PAINT.  
2. CONTRACTOR TO PROVIDE ANTI-VORTEX PLATES.  
**CONICAL TRASH RACK FOR CATCH BASIN BOX**  
N.T.S.



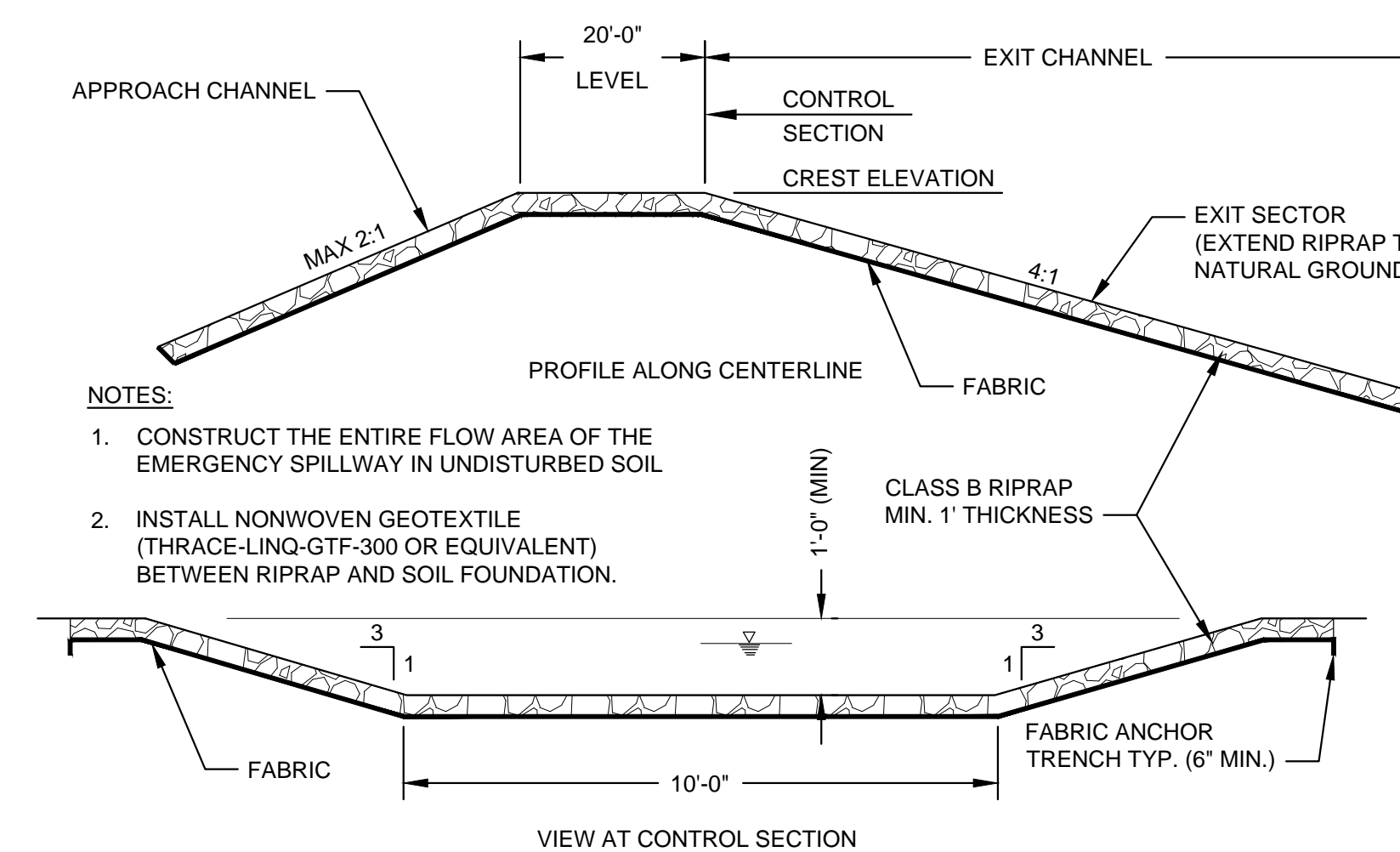
**CMP TRASH RACK DETAIL**  
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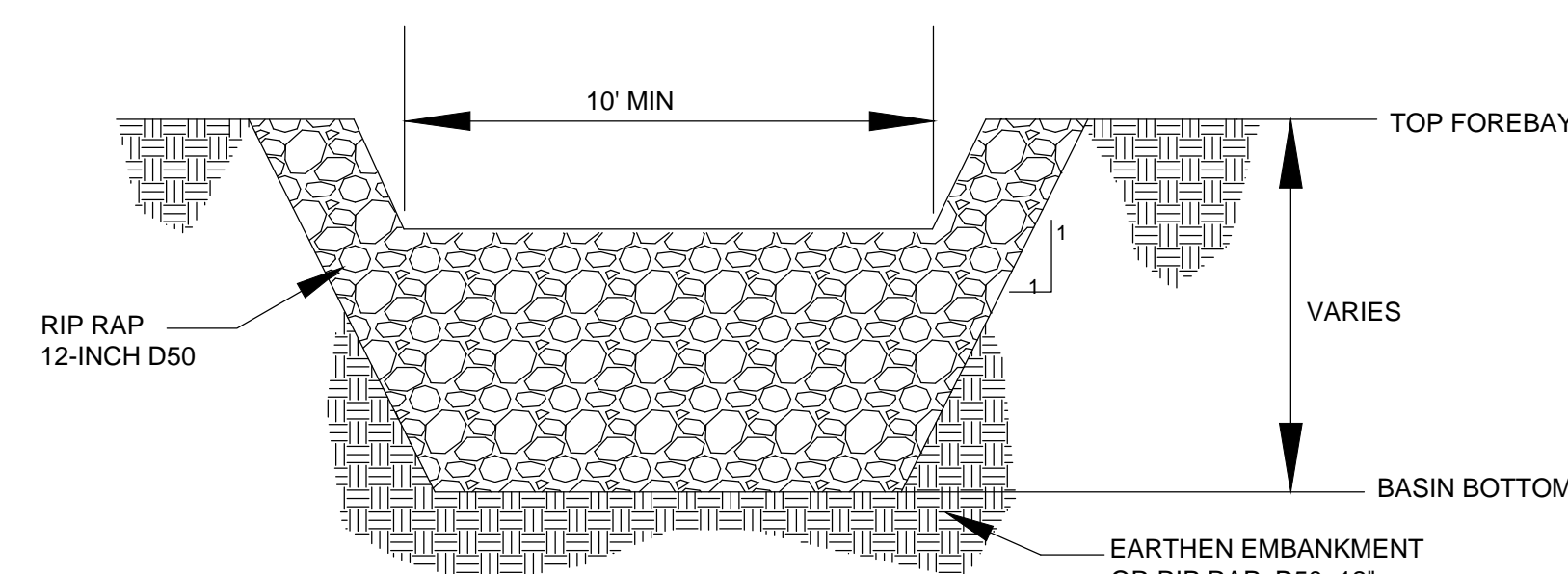
**TYPICAL POROUS BAFFLE DETAIL B**  
N.T.S.

\* If the temporary sediment basin will be converted to a permanent stormwater basin of greater depth, the baffle height should be based on the pool depth during use as a temporary sediment basin.

Note: Install three (3) coir fiber baffles in basins at drainage outlets with a spacing of 1/4 the basin length. Two (2) coir fiber baffles can be installed in the basins less than 20 ft. in length with a spacing of 1/3 the basin length.

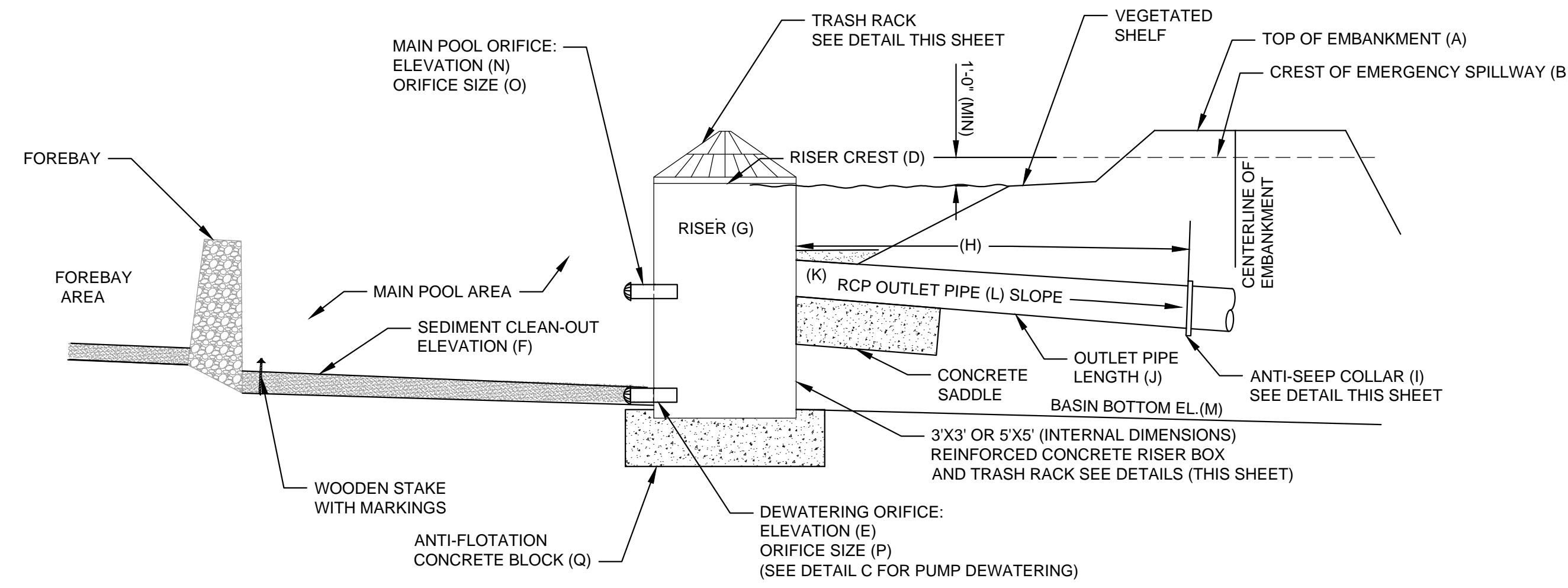


**EMERGENCY SPILLWAY DETAILS D**  
N.T.S.



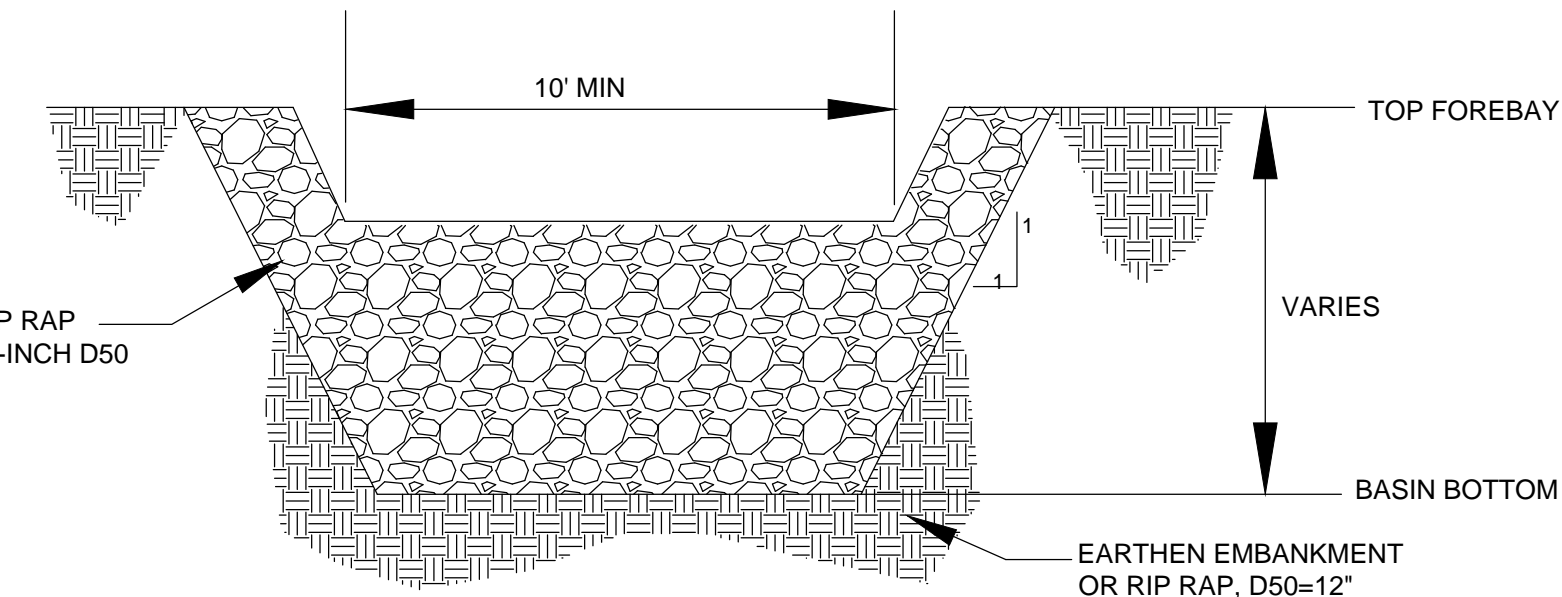
**FOREBAY BERM DETAIL E**  
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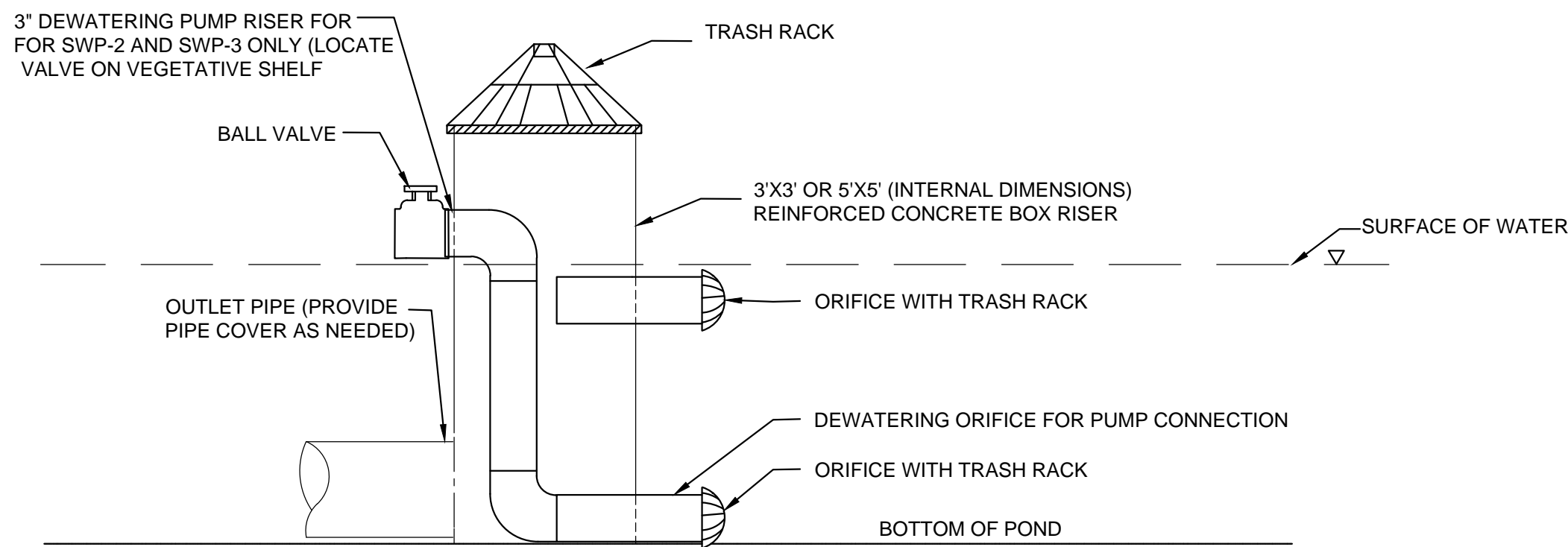


| SWP. # | A  | B  | D  | E  | F    | G       | H   | I       | J    | K           | L    | M  | N  | O    | P  | Q              |
|--------|----|----|----|----|------|---------|-----|---------|------|-------------|------|----|----|------|----|----------------|
| SWP-1B | 33 | 32 | 30 | 27 | 27.5 | 5' X 5' | 22' | 6' X 4' | 328' | (2) 24" RCP | 0.6  | 27 | 29 | 2'   | 4' | 7' X 7' X 3.5' |
| SWP-2  | 34 | 33 | 31 | 26 | 26.5 | 3' X 3' | 24' | 4' X 4' | 69'  | 18" RCP     | 0.72 | 26 | 30 | 2"   | 4" | 8' X 8' X 2.5' |
| SWP-3  | 33 | 32 | 31 | 26 | 26.5 | 3' X 3' | 15' | 3' X 3' | 29'  | 12" RCP     | 0.86 | 26 | 30 | 1.5" | 3" | 8' X 8' X 2.5' |

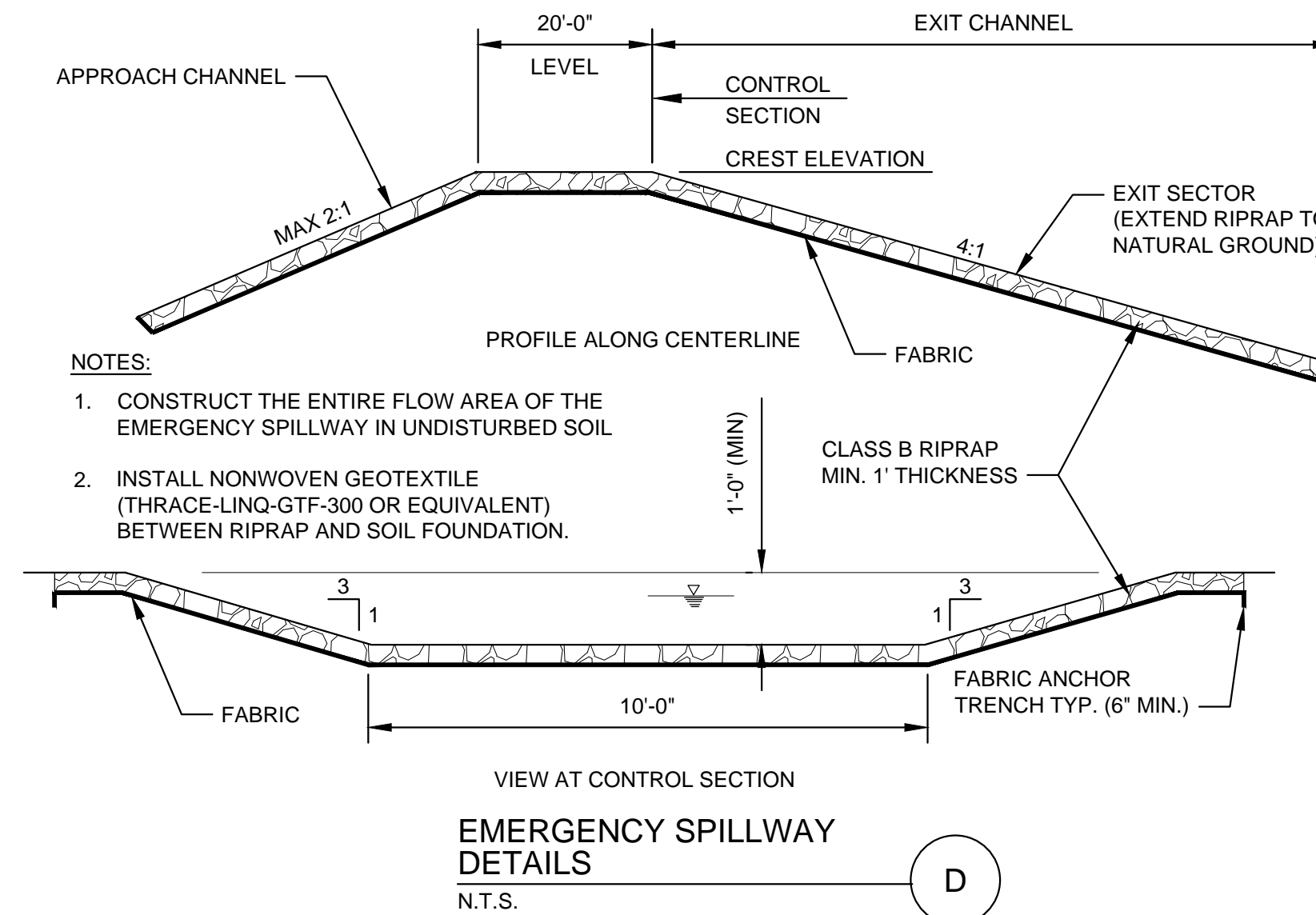
**WET DETENTION POND PARTIAL SECTION A**  
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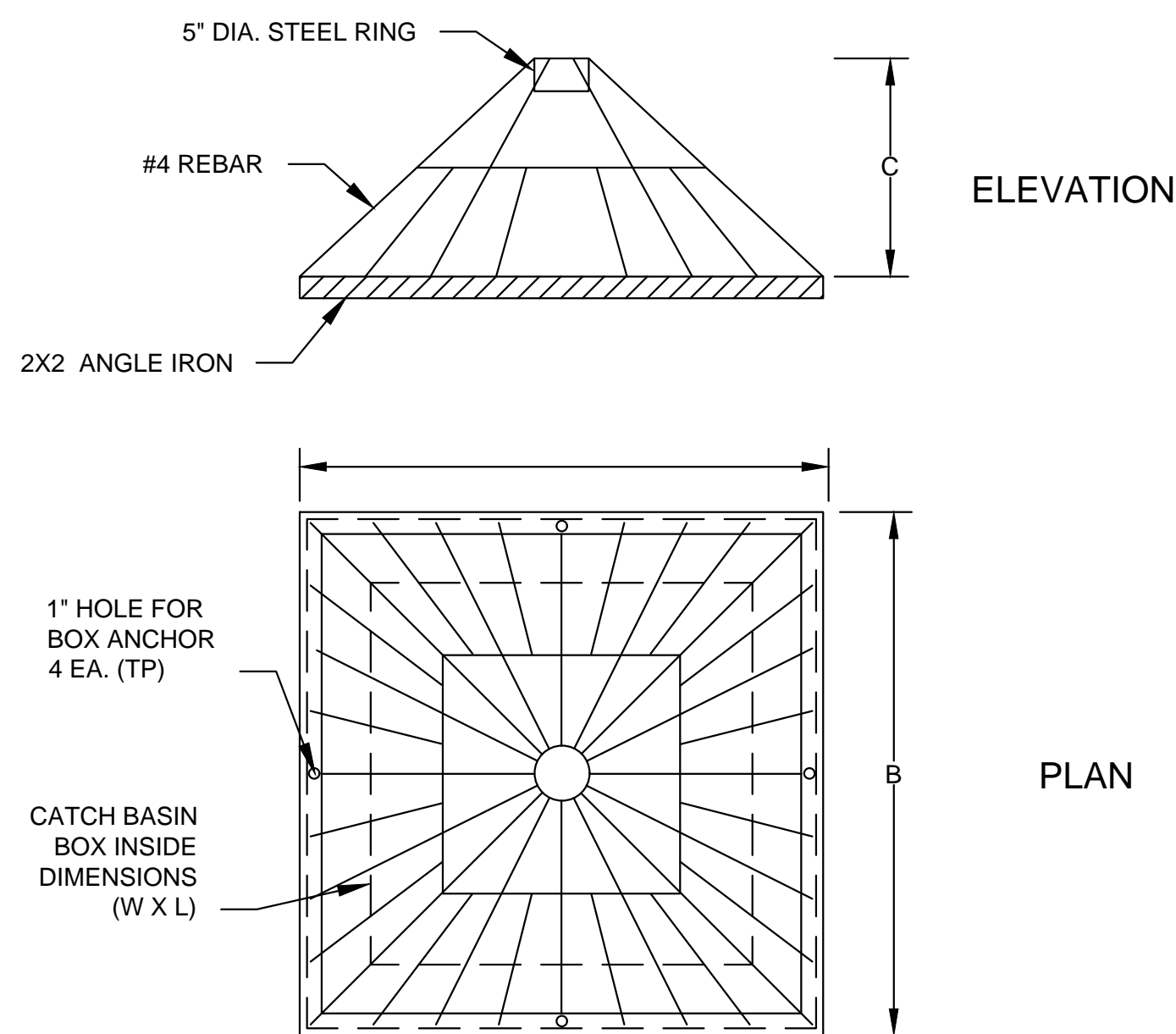
**FOREBAY BERM DETAIL B**  
N.T.S.



**WET DETENTION POND RISER DETAIL C**  
N.T.S.



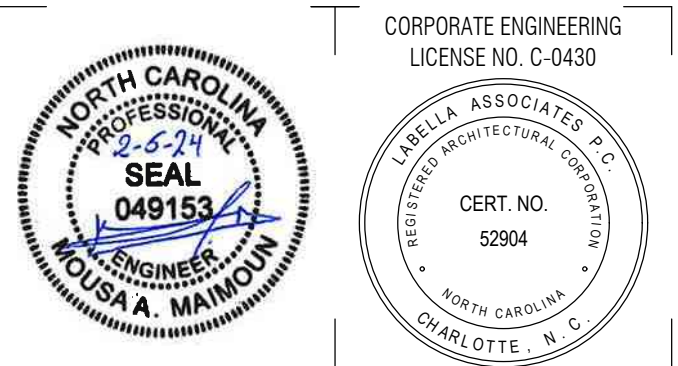
**EMERGENCY SPILLWAY DETAILS D**  
N.T.S.



| DESCRIPTION I.D. (WXL)  | DIM. A | DIM. B | DIM. C |
|-------------------------|--------|--------|--------|
| 3' X 3' CATCH BASIN BOX | 4'-1"  | 4'-1"  | 1'-2"  |
| 5' X 5' CATCH BASIN BOX | 6'-2"  | 6'-2"  | 1'-2"  |

**CONICAL TRASH RACK FOR CATCH BASIN BOX**  
N.T.S.  
NOTES:  
1. TRASH RACKS TO BE COATED WITH GALVANIZING PAINT.  
2. CONTRACTOR TO PROVIDE ANTI-VORTEX PLATES.

**NOTE:**  
THE STORMWATER MANAGEMENT FEATURES SHOWN ON THIS DRAWING ARE PENDING NCDEQ APPROVAL.



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**COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY**

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**NEWPORT TRANSFER STATION EXPANSION**

800 HIBBS ROAD  
NEWPORT, NC 28570

| NO. | DATE   | DESCRIPTION                      |
|-----|--------|----------------------------------|
| 1   | 2/6/24 | THIS SHEET ADDED FOR ADDENDUM #3 |

PROJECT NUMBER: 2201731.02

DRAWN BY: RH

REVIEWED BY: KN

ISSUED FOR: REBID

DATE: 2/6/24

DRAWING NAME:

**STORMWATER BMP DETAIL**

DRAWING NUMBER:

**C-0013A**



**GENERAL NOTES**

- SEEDING PRODUCTS SHOULD BE TRANSPORTED AND HANDLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- GRASS SEED MIXTURE SHOULD BE DELIVERED IN SEALED CONTAINERS; DAMAGED PACKAGES WILL NOT BE ACCEPTED.
- FERTILIZER SHOULD BE DELIVERED IN WATERPROOF BAGS SHOWING WEIGHT, CHEMICAL ANALYSIS, AND NAME OF MANUFACTURER.
- PROMPTLY INSPECT SHIPMENTS TO ASSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS, QUANTITIES ARE CORRECT, AND PRODUCTS ARE UNDAMAGED.
- STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE.
- SITE REVIEW MEETINGS WILL BE HELD MONTHLY. THE MEETINGS WILL BE ATTENDED BY THE CONTRACTOR, SITE FOREMAN, AND OWNER OR OWNER'S REPRESENTATIVE. RESULT OF SITE REVIEWS WILL BE DOCUMENTED AND CIRCULATED TO THE MEETING ATTENDEES BY THE CONTRACTOR.
- DURING CONSTRUCTION, THE RECORDING OF SEEDING MAINTENANCE DATA IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. AT THE END OF WORK, CONTRACTOR SHALL SUBMIT MAINTENANCE DATA TO OWNER TO ENABLE CONTINUING MAINTENANCE. MAINTENANCE DATA SHOULD INCLUDE MAINTENANCE INSTRUCTIONS, CUTTING METHOD, MAXIMUM GRASS HEIGHTS, TYPES, APPLICATION FREQUENCY, AND RECOMMENDED COVERAGE OF FERTILIZER.
- THE CONTRACTOR WILL COMMUNICATE WITH THE OWNER OR HIS REPRESENTATIVE ON A MONTHLY BASIS TO SUMMARIZE WORK PERFORMED AND IMMEDIATELY NOTIFY THE PROJECT MANAGER OF ANY FAILURE OF THE SITE TO REMAIN STABILIZED.

**STABILIZATION TIMEFRAME**

- SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF THE SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
  - ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:
  - EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.
  - ALL SLOPES 50' IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 4:1. SLOPES LESS THAN 50' SHALL APPLY GROUND COVER WITHIN 14 DAYS EXCEPT WHEN SLOPES ARE STEEPER THAN 3:1, THE 7 DAY-REQUIREMENT APPLIES.
  - ANY SLOPED AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT.
  - SLOPES 10' OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT EXCEPT WHEN THE SLOPE IS STEEPER THAN 2:1.

**SEEDING MATERIALS**

- TOPSOIL MATERIAL SHALL BE EXCAVATED FROM SITE AND FREE OF WEEDS.
- SEED MIXTURE: SEED MIXTURES SHOULD BE PROVIDED IN CONTAINERS SHOWING PERCENTAGE OF SEED MIX, YEAR OF PRODUCTION, NET WEIGHT, DATE OF PACKAGING, AND LOCATION OF PACKAGING.
- MULCHING MATERIAL: MULCH SHOULD CONSIST OF OAT OR WHEAT STRAW, DRY, FREE FROM WEEDS AND OTHER FOREIGN MATTER DETRIMENTAL TO PLANT LIFE.
- LIME: LIME SHALL COMPLY WITH APPLICABLE NORTH CAROLINA STATE LAWS AND SHALL BE DELIVERED IN UNOPENED BAGS OR OTHER CONVENIENT STANDARD CONTAINERS, EACH FULLY LABELED WITH THE MANUFACTURER'S GUARANTEED ANALYSIS. LIME SHALL BE GROUND LIMESTONE CONTAINING NOT LESS THAN 85 PERCENT TOTAL CARBONATES, AND SHALL BE GROUND TO SUCH FINENESS THAT 90 PERCENT BY WEIGHT WILL PASS THROUGH A NO. 20 MESH SIEVE AND 50 PERCENT BY WEIGHT WILL PASS THROUGH A NO. 100 MESH SIEVE.
- FERTILIZER: FERTILIZER SHALL COMPLY WITH APPLICABLE NORTH CAROLINA STATE LAWS AND SHALL BE DELIVERED IN UNOPENED BAGS OR OTHER CONVENIENT STANDARD CONTAINER, EACH FULLY LABELED WITH THE MANUFACTURER'S GUARANTEED ANALYSIS. FERTILIZER SHALL CONTAIN NOT LESS THAN 10 PERCENT NITROGEN, 10 PERCENT AVAILABLE PHOSPHORIC ACID AND 10 PERCENT WATER SOLUBLE POTASH (N-P-K, 10-10-10). ANY FERTILIZER WHICH BECOMES CAKED OR OTHERWISE DAMAGED, MAKING IT UNSUITABLE FOR USE, WILL NOT BE ACCEPTABLE AND SHALL BE IMMEDIATELY REMOVED FROM THE JOB SITE.

**SEEDING SCHEDULE AND RATES**

**TEMPORARY SEEDING:**

PROVIDE TEMPORARY STABILIZATION IN ACCORDANCE WITH THE FOLLOWING SEEDING SCHEDULE AND APPLICATION RATES:

| SEASON                       | SEEDING DATES           | SEEDING MIXTURE             | RATE (lbs./acre) |
|------------------------------|-------------------------|-----------------------------|------------------|
| LATE WINTER AND EARLY SPRING | JANUARY 1 - MAY 1       | RYE GRAIN                   | 120              |
|                              |                         | KOBE LESPEDEZA              | 50               |
| SUMMER                       | MAY 1 - AUGUST 15       | GERMAN MILLET<br>SUDANGRASS | 40<br>50         |
| FALL                         | AUGUST 15 - DECEMBER 30 | RYE GRAIN                   | 120              |

**PERMANENT SEEDING:**

PERMANENT STABILIZATION SHOULD BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING SEEDING SCHEDULE AND APPLICATION RATES:

| SPECIES   | SEEDING DATES   | SEEDING MIXTURE                               | RATE (lbs./acre)                    |
|---|---|---|-------------------------------------|
| NURSE CROP (USE FOR IMMEDIATE STABILIZATION)  | AUGUST 15 - APRIL 15<br>MAY 1 - SEPTEMBER 1   | RYE GRAIN                                     | 40                                  |
|   |   | GERMAN MILLET<br>KOBE OR KOREAN LESPEDEZA     | 10                                  |
| PRIMARY CROP - NON-NATIVE SPECIES<br>(ONLY USE FOR LONG-TERM STABILIZATION IF NATIVE SPECIES ARE UNAVAILABLE) | SEPTEMBER 1 - MAY 1<br>SEPTEMBER 1 - APRIL 15<br>APRIL 15 - JUNE 30   | SERICEA LESPEDEZA                             | 15                                  |
|   |   | KY 31 TALL FESCUE<br>BERMUDA GRASS            | 100<br>25                           |
| PRIMARY CROP - NATIVE SPECIES   | DECEMBER 1 - APRIL 1<br>DECEMBER 1 - APRIL 1<br>MAY 1 - APRIL 1<br>FEBRUARY 15 - APRIL 1<br>AUGUST 15 - OCTOBER 15<br>DECEMBER 1 - MAY 1;<br>SEPTEMBER 1 - NOVEMBER 1 | SWITCHGRASS<br>BIG BLUESTEM<br>SWEET WOODREED | 2.5 - 3.5<br>5.0 - 7.0<br>1.5 - 2.5 |
|   |   | DEERTONGUE<br>INDIAN WOODOATS<br>SOFT RUSH    | 4.0 - 6.0<br>1.5 - 2.5<br>1.5 - 2.5 |

\*LONG TERM STABILIZATION USING NATIVE CROPS SHOULD BE BASED ON A SEEDING MIXTURE USING BETWEEN 4 - 6 NATIVE SEED SPECIES THAT HAVE SIMILAR SOIL DRAINAGE ADAPTATIONS (E.G. A MIXTURE OF SWITCHGRASS, BIG BLUESTEM, SWEET WOODREED AND INDIAN WOODOATS SEEDS CAN BE APPLIED AT RATES SPECIFIED IN THE TABLE ABOVE). TYPICAL SEED MIXTURE SHOULD BE IN THE RANGE OF 15 LBS./ACRE.

**SEEDING PROCEDURES**

- AREAS WHERE TOPSOIL MATERIAL IS TO BE PLACED AND AREAS TO BE SEEDED INCLUDE ALL AREAS DISTURBED DURING CONSTRUCTION BEYOND THE LIMITS OF THE PROPOSED EXPANSION WHICH ARE NOT TO BE PAVED.
- VERIFY THAT PREPARED SOIL BASE IS READY TO RECEIVE WORK AND SEED ALL AREAS DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- PREPARE SUBSOIL TO ELIMINATE UNEVEN AREAS AND LOW SPOTS. MAINTAIN LINES, LEVELS, PROFILES AND CONTOURS. MAKE CHANGES IN GRADE GRADUAL. BLEND SLOPES INTO LEVEL AREAS.
- REMOVE DELETERIOUS MATERIALS, SUCH AS WEEDS, UNDESIRABLE PLANTS, AND THEIR ROOTS. REMOVE CONTAMINATED SUBSOIL.
- SCARIFY SUBSOIL TO A DEPTH OF 3 INCHES WHERE TOPSOIL MATERIAL IS TO BE PLACED. REPEAT CULTIVATION IN AREAS WHERE EQUIPMENT USED FOR HAULING AND SPREADING TOPSOIL HAS COMPACTED SUBSOIL.
- PLACE TOPSOIL MATERIAL DURING DRY WEATHER AND ON DRY UNFROZEN SUBGRADE 2 TO 3 WEEKS PRIOR TO SOWING SEED.
- SPREAD TOPSOIL MATERIAL OVER AREA TO BE SEEDED. FINISHED THICKNESS OF TOPSOIL MATERIAL SHALL BE 3 INCHES MINIMUM AFTER SETTLING AND NOMINAL COMPACTION CAUSED BY SPREADING EQUIPMENT.
- GRADE TO ELIMINATE ROUGH, LOW, OR SOFT AREAS, AND TO ENSURE POSITIVE DRAINAGE.
- RAKE TOPSOIL MATERIAL AND REMOVE ROOTS, VEGETABLE MATTER, ROCKS, CLOUDS, AND OTHER NON-ORGANIC MATERIAL.
- APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY LIME AT THE RATE OF 2,000 LBS./ACRE AND 10-10-10 GRADE FERTILIZER AT THE RATE OF 750 LBS./ACRE. MIX THOROUGHLY INTO UPPER 4 - 6 INCHES OF TOPSOIL. LIGHTLY WATER TO AID THE DISSIPATION OF FERTILIZER AND LIME.
- PREPARE SEEDBED TO A DEPTH OF 4 TO 6 INCHES. REMOVE LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SO THAT THEY WILL NOT INTERFERE WITH THE ESTABLISHMENT AND MAINTENANCE OF VEGETATION.
- TO AMEND SOIL, FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2000 LBS./ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS./ACRE 10-10-10 FERTILIZER.
- APPLY MULCH AT A RATE OF 4,000 LBS./ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE.
- RESEED, RE-FERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
- LIGHTLY COMPACT SEEDED AREAS BY MEANS OF A ROLLER OR OTHER APPROVED EQUIPMENT IMMEDIATELY AFTER SOWING.
- DURING PERMANENT STABILIZATION, MULCH MUST COVER 80 % OF THE SOIL SURFACE AT A MINIMUM AND MUST BE ANCHORED BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL.
- REFERTILIZE IN THE SECOND YEAR UNLESS GROWTH IS FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.

MAINTENANCE THE FOLLOWING ITEMS, AT A MINIMUM, SHALL BE PART OF ROUTINE MAINTENANCE DURING CONSTRUCTION:

- SEEDED AREAS SHALL BE INSPECTED REGULARLY TO ENSURE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. AREAS WITHOUT ESTABLISHED VEGETATION SHALL BE FERTILIZED AND RESEEDED.
- SEEDED AREAS WILL BE INSPECTED WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIOD.
- GRASS SHALL BE MOWED ON A REGULAR BASIS. TYPICAL MINIMUM MOWING HEIGHT SHALL BE 4 INCHES FOR WARM-SEASON TURF SPECIES AND 6 INCHES FOR COOL-SEASON SPECIES.
- SITE OBSERVATIONS SHOULD BE PERFORMED MONTHLY TO CHECK FOR THE PRESENCE OF INVASIVE SPECIES. IF FOUND, INVASIVES SHOULD BE TREATED IMMEDIATELY WITH APPROPRIATE CULTURAL PRACTICES AND/OR BY THE USE OF SEASONALLY-APPROPRIATE AND SITE APPROPRIATE HERBICIDES.

**VEGETATED SHELF PLANTING SCHEDULE**

PLANTING FREQUENCY:

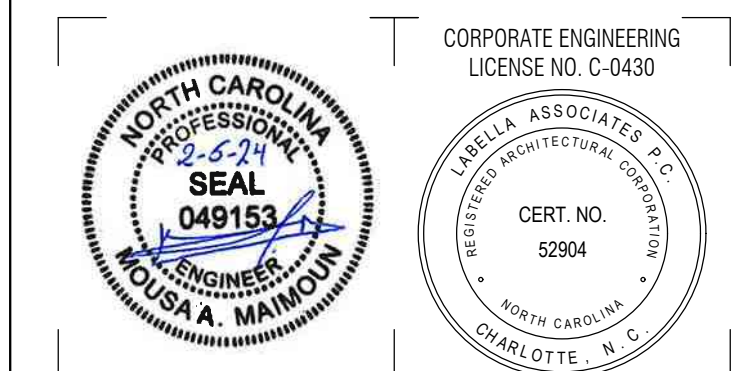
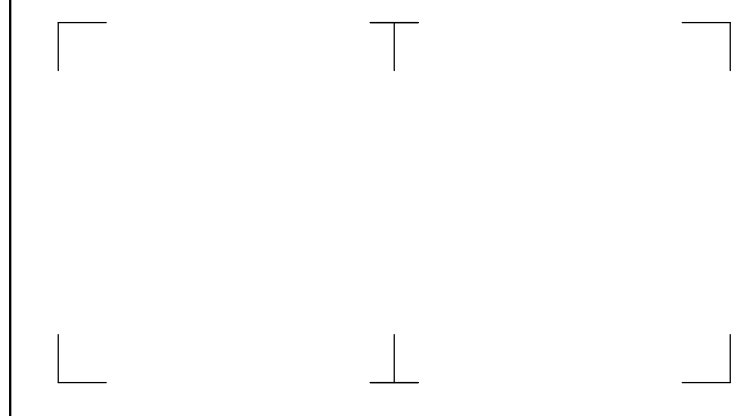
15 PLANTS PER 200 SF

2

| BOTANICAL NAME             | COMMON NAME            |
|----------------------------|------------------------|
| ASCLEPIAS INCARNATA        | SWAMP MILKWEED         |
| CAREX TENERA               | QUILL SEDGE            |
| CHELONE GLABRA             | WHITE TURTLEHEAD       |
| EUPATORIADELPHUS DUBIUS    | DWARF JOE PYE WEED     |
| EUPATORIADELPHUS MACULATUS | SPOTTED TRUMPETWEED    |
| HIBISCUS GOCCHINEUS        | SCARLET ROSE MALLOW    |
| HIBISCUS LAEVIS            | HALBERDLEAF ROSEMALLOW |
| KOSTELETZKYA VIRGINICA     | SEASHORE MALLOW        |
| LOBELIA CARDINALIS         | CARDINAL FLOWER        |
| LOBELIA ELONGATA           | LONGLEAF LOBELIA       |
| LOBELIA SIPHILITICA        | GREAT BLUE LOBELIA     |
| RHYNCHOSPORA COLORATA      | STARRUSH WHITETOP      |
| SACCHARUM BALDWINII        | NARROW PLUMEGRASS      |



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**COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY**

7400 OLD US 70 HIGHWAY  
NEW BERN, NC 28562



**NEWPORT TRANSFER STATION EXPANSION**

800 HIBBS ROAD  
NEWPORT, NC 28570

| NO. | DATE     | DESCRIPTION             |
|-----|----------|-------------------------|
| 2   | 2/6/2024 | REVISED FOR ADDENDUM #3 |
| 1   | 12/08/23 | ISSUED FOR REBID        |

PROJECT NUMBER: 2201731.02

DRAWN BY: RH

REVIEWED BY: KN

ISSUED FOR: REBID

DATE: 12/08/23

DRAWING NAME:

**SEEDING SPECIFICATIONS**

DRAWING NUMBER:

**C-0015**

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