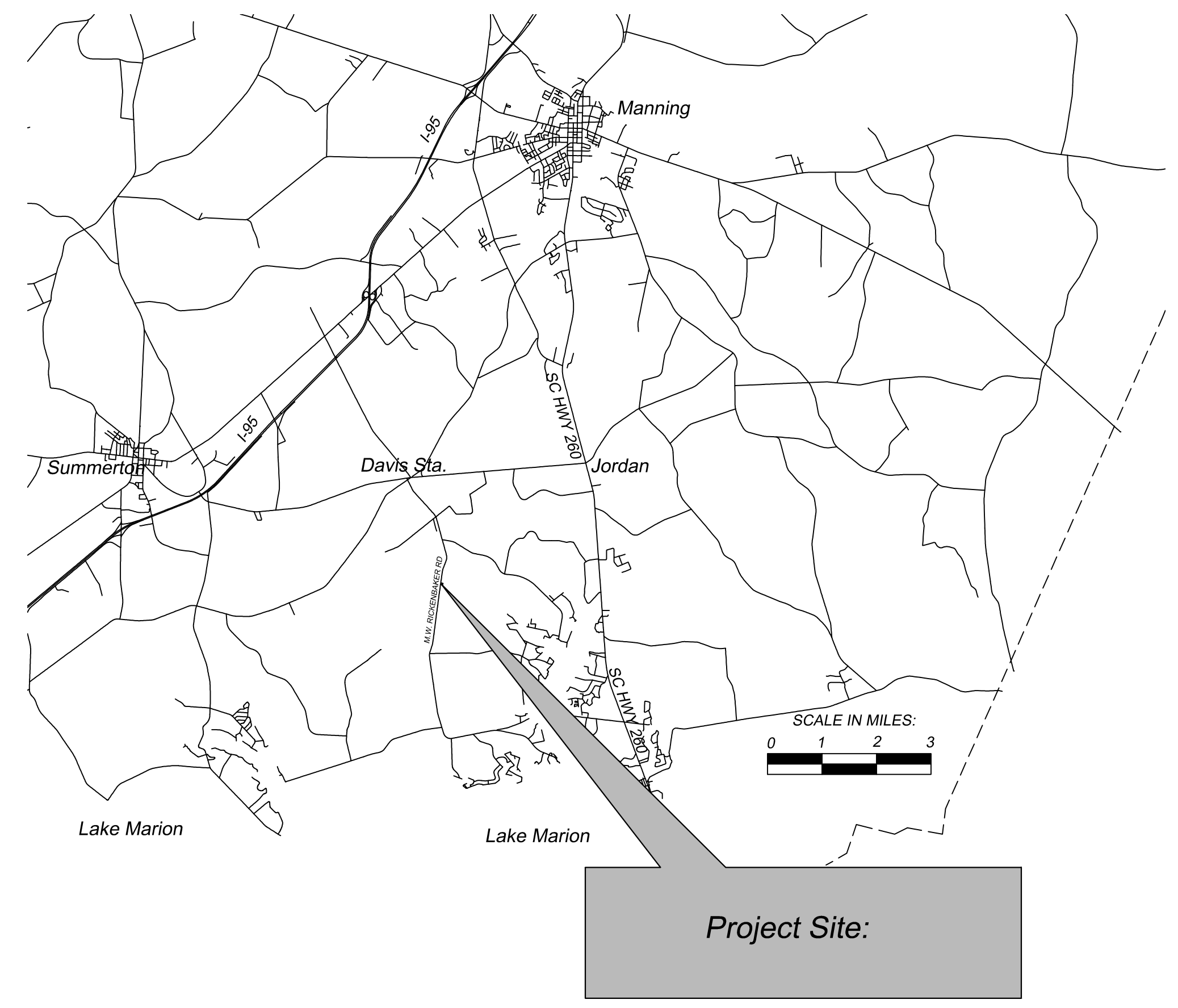


Clarendon County Fire Rescue

NEW STATION 10 M.W. RICKENBAKER ROAD CLARENDON COUNTY SOUTH CAROLINA

Clarendon County Engineering
411 SUNSET DR. - MANNING, S.C. 29102
(803) 433-3256 FAX: (803) 435-2208

JANUARY 26, 2022



8 7 6 5 4 3 2 1

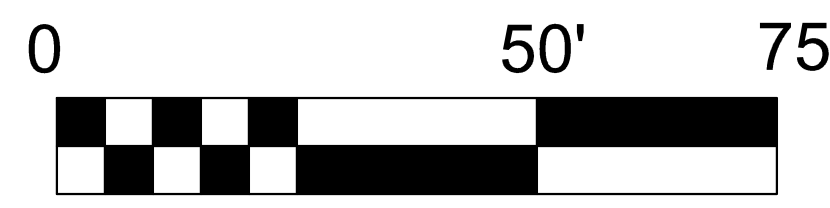
SITE TRIANGLE
GREATER THAN 800'
EACH WAY,
CHECKED IN FIELD

REMOVE EXISTING DRIVE AND 15" PIPE
REPLACE WITH 18" RCP AS SHOWN

37.5' R/W FROM CENTERLINE EACH SIDE

M.W. RICKENBAKER ROAD (S. C. HWY. S-14-64)

260' TO RESIDENTIAL DRIVEWAY

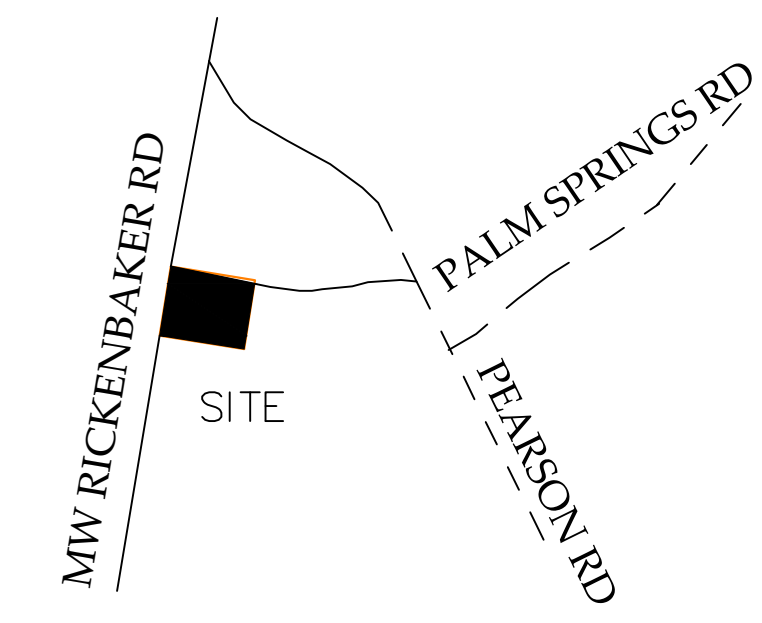


Graphic Scale:

PROPERTY DATA TAKEN FROM
PLAT OF A LOT FOR CLARENDON
COUNTY FIRE DEPARTMENT,
JULY 6, 2009 BY F. DAVIS MITCHUM
LAND SURVEYING, LLC.

TOPO TAKEN FROM LIDAR ELEVATIONS
ON USGS NATIONAL MAP. VERIFY IN
FIELD FOR BUILDING FIN FLOOR TO
BE MINIMUM OF 1' ABOVE CENTER
OF M.W. RICKENBAKER ROAD.

7 - 10'X20' SPACES
WITH STOP BLOCKS



LOCATION MAP
NOT TO SCALE

EXISTING WOODS

FLOOR DRAIN
DISCHARGE TO
SWALE

PROPOSED FINISHED
ELEV. CONTOURS

SAMUEL E. ROGERS, JR.
FAMILY TRUST

GRASSED PARKING AREA

GRASSED PARKING AREA

1.01 ACRES
43823.29 SQ FT

APPROX. EXISTING
ELEV. CONTOURS

SAMUEL E. ROGERS, JR.
FAMILY TRUST

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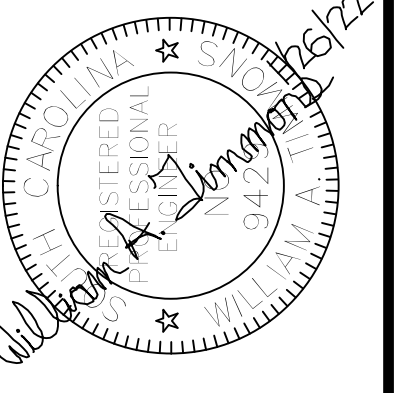
SITE NOTES:

1. CONTRACTOR MUST VISIT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS.
2. DIMENSIONS SHOWN AND LOCATION OF BUILDING PAD TO BE VERIFIED IN FIELD.
3. PROVIDE SUITABLE BUILDING PAD PRIOR TO BEGINNING STRUCTURE.
4. COPY OF SCDOT ENCROACHMENT PERMIT WILL BE PROVIDED. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS INDICATED ON PERMIT WHEN WORKING IN HIGHWAY R/W.
5. CONTRACTOR MUST COMPLY WITH SCDHEC EROSION CONTROL REQUIREMENTS AND REPAIR ANY DISTURBED AREAS.

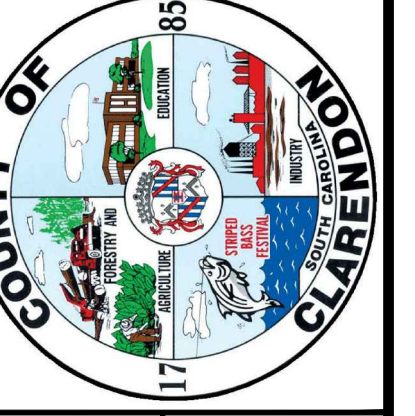
LANDSCAPE PLAN NOTES:

1. SITE HAS TREES ON NORTH AND SOUTH SIDE THAT WILL FUNCTION AS LANDSCAPE BUFFER.
2. AREA TO THE EAST OF SITE IS FARMLAND AND NO ADDITIONAL LANDSCAPING IS PROPOSED.
3. ALL OPEN AREAS OF THE SITE ARE TO BE GRASSED AS SPECIFIED IN EROSION CONTROL PLAN.

SITE AND GRADING PLAN



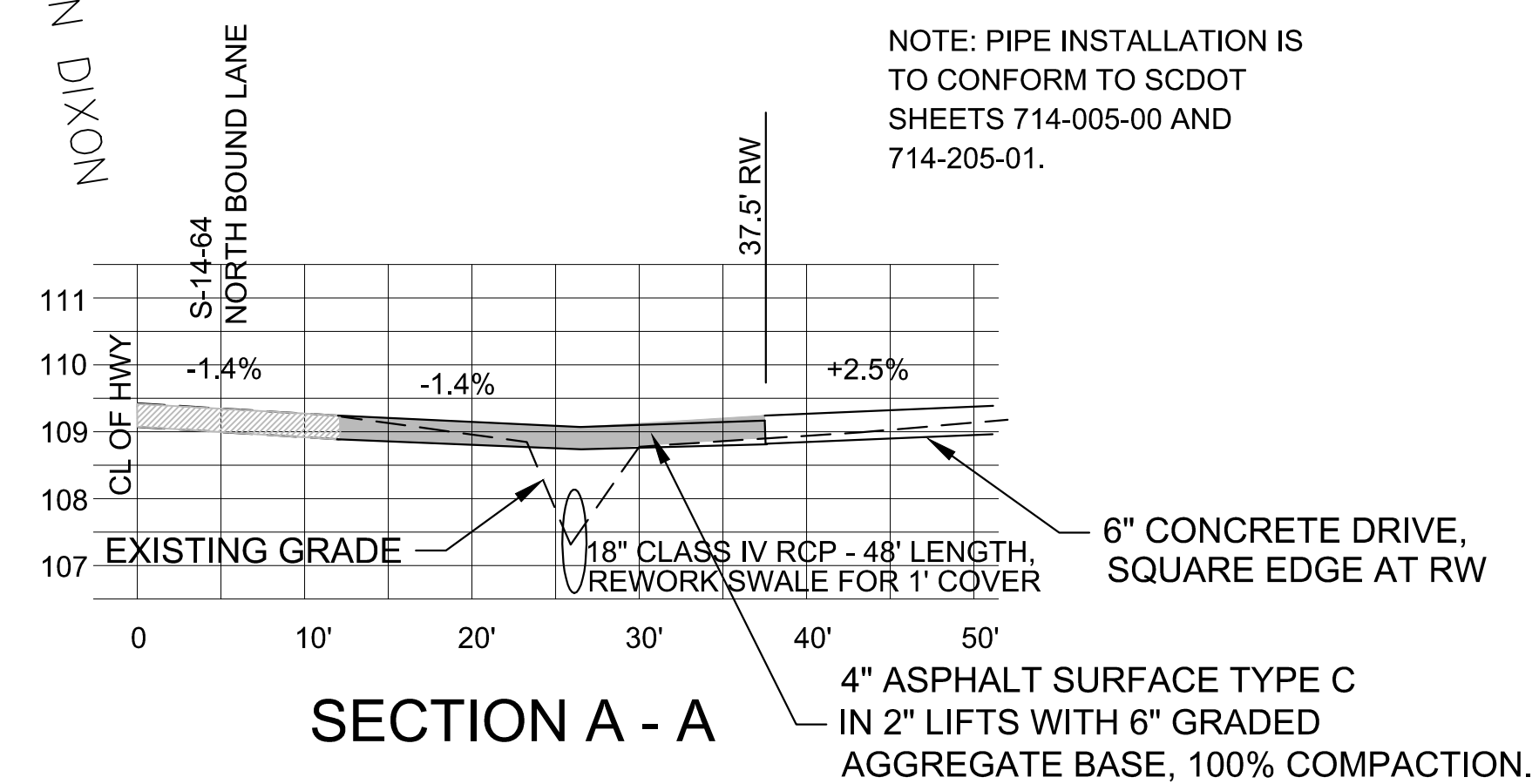
ZONE	REV	DESCRIPTION	DATE	APPROVED
1		ADDED ROAD INFORMATION	11/24/21	
2		REVISED DRIVEWAY RADIUS	12/08/21	
3		REVISED DRIVEWAY RADIUS	12/08/21	
4		REVISED SEPTIC AND PARKING	1/25/22	



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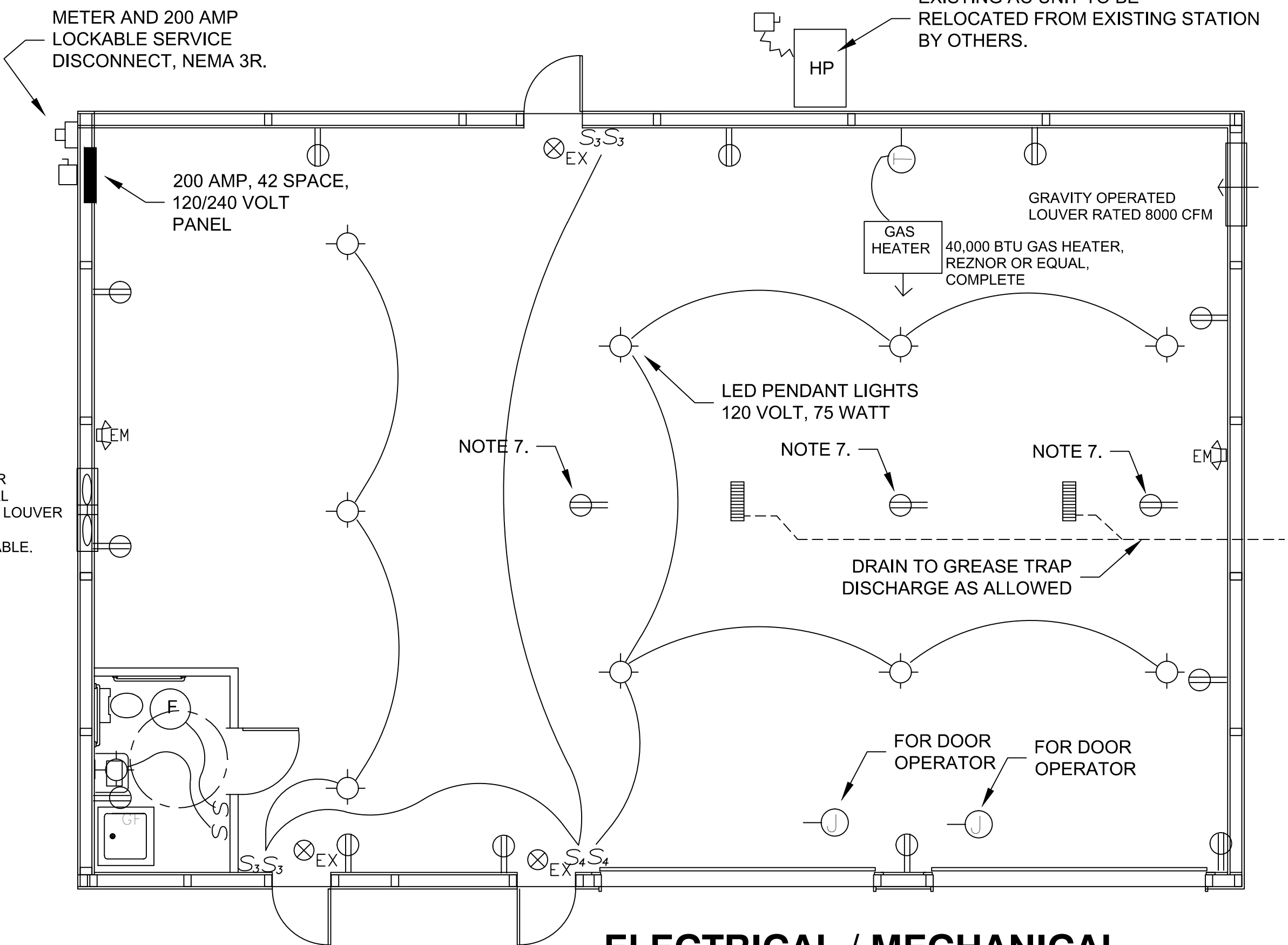
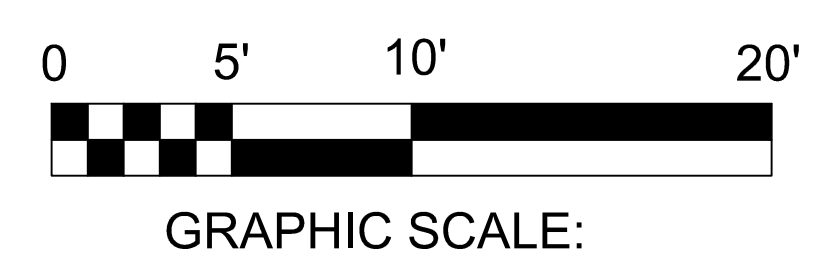
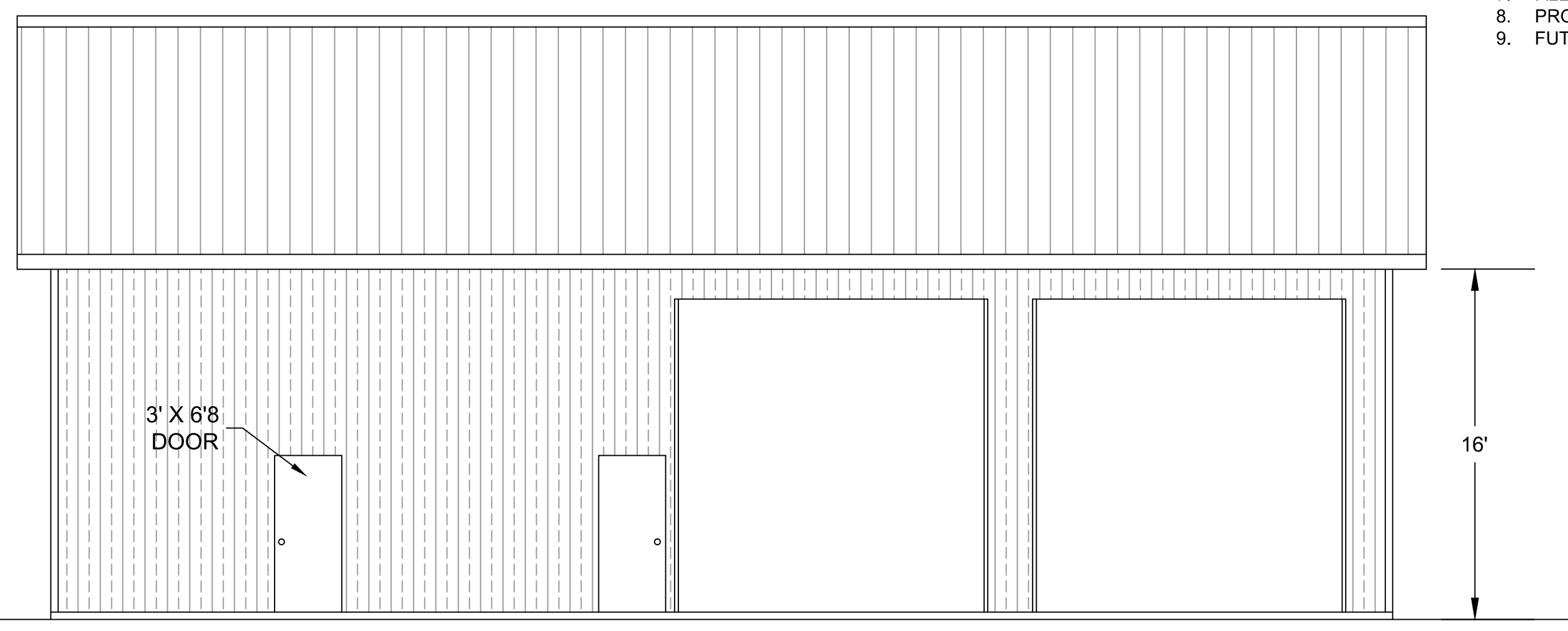
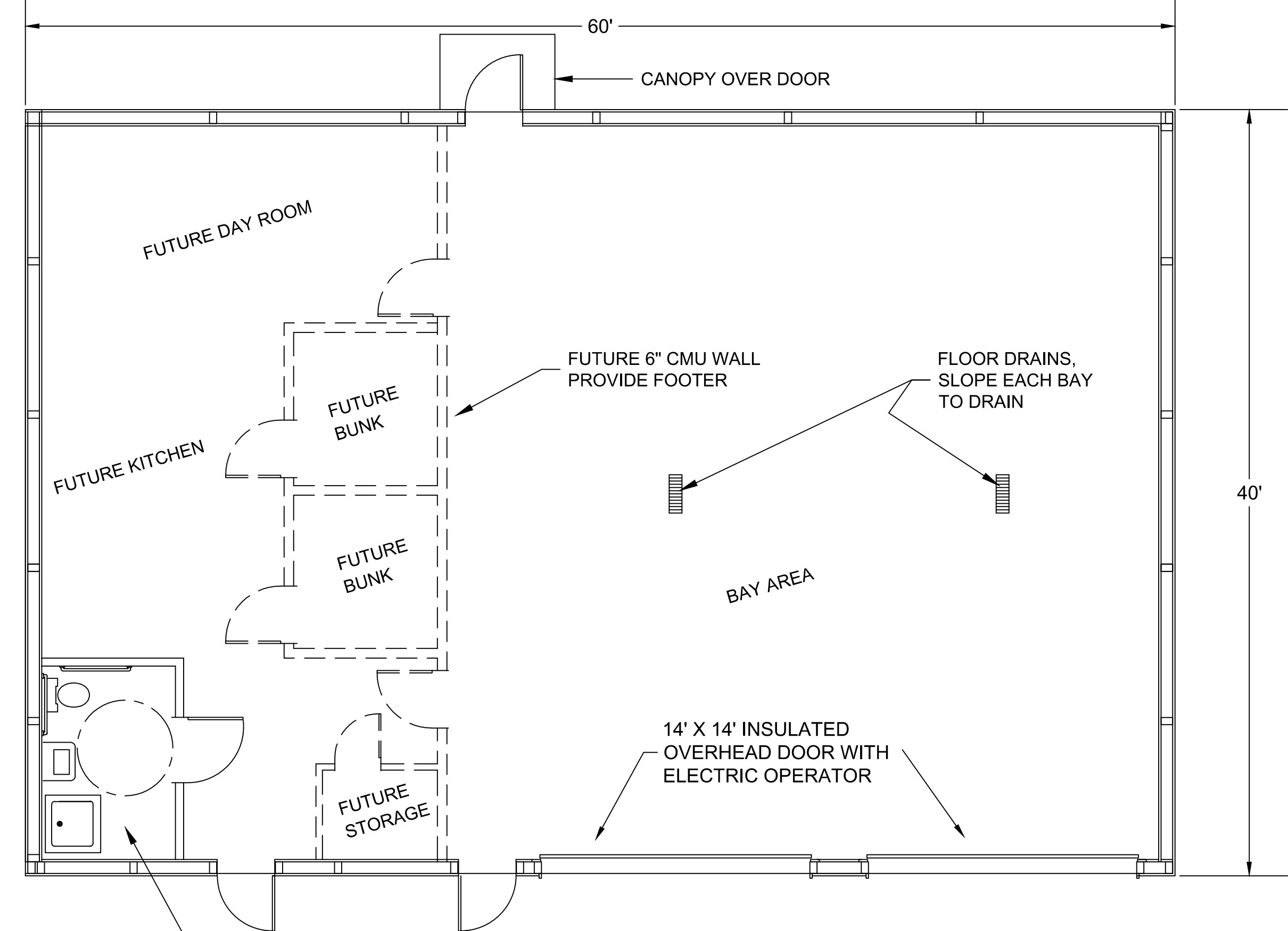
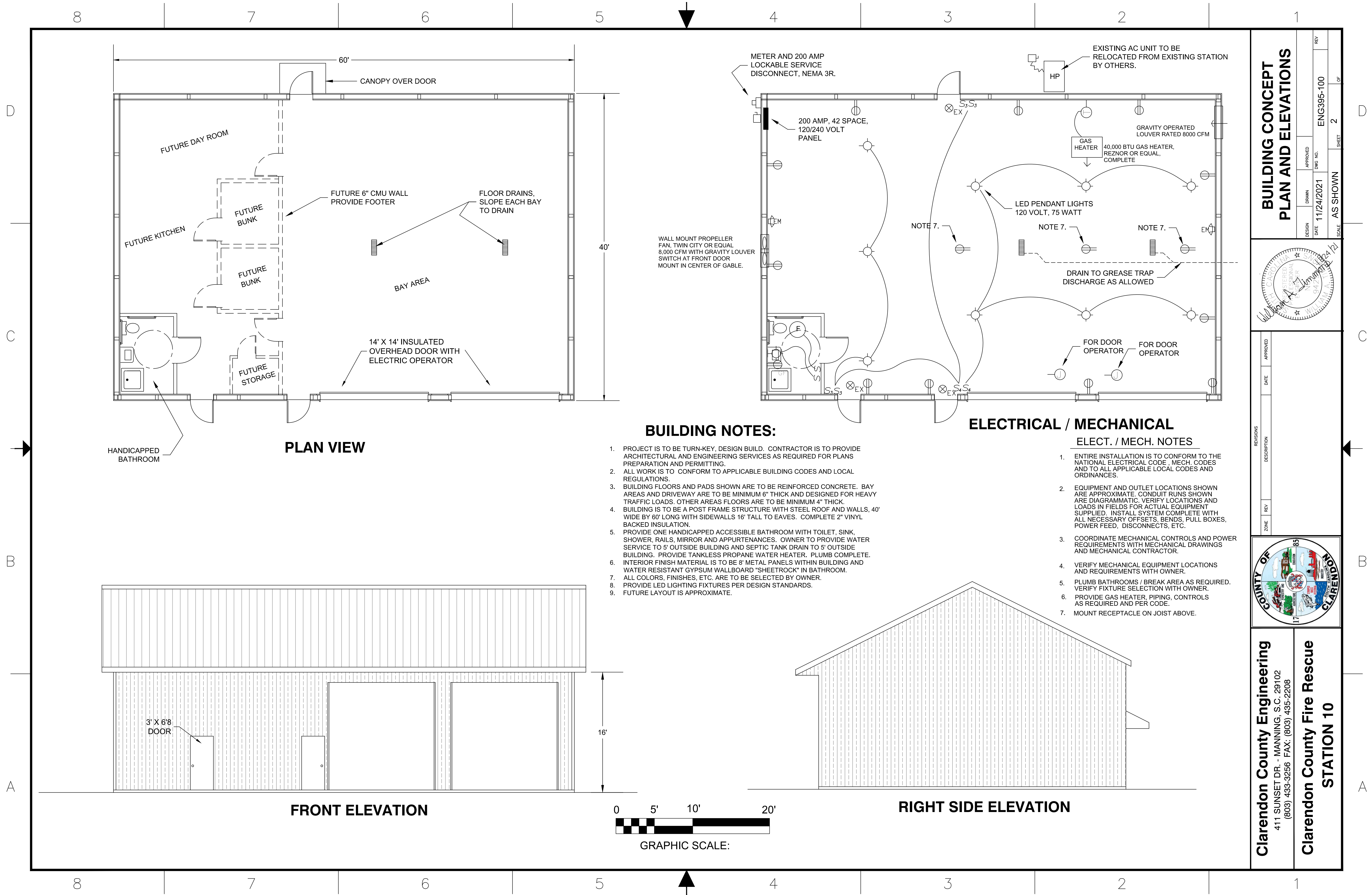
Clarendon County Fire Rescue
STATION 10

DATE	DESIGN	DRAWN	APPROVED	DWG. NO.	REV
11/24/21				ENG395-100	1



SECTION A - A

8 7 6 5 4 3 2 1



BUILDING NOTES:

- PROJECT IS TO BE TURN-KEY, DESIGN BUILD. CONTRACTOR IS TO PROVIDE ARCHITECTURAL AND ENGINEERING SERVICES AS REQUIRED FOR PLANS PREPARATION AND PERMITTING.
- ALL WORK IS TO CONFORM TO APPLICABLE BUILDING CODES AND LOCAL REGULATIONS.
- BUILDING FLOORS AND PADS SHOWN ARE TO BE REINFORCED CONCRETE. BAY AREAS AND DRIVEWAY ARE TO BE MINIMUM 6" THICK AND DESIGNED FOR HEAVY TRAFFIC LOADS. OTHER AREAS FLOORS ARE TO BE MINIMUM 4" THICK.
- BUILDING IS TO BE A POST FRAME STRUCTURE WITH STEEL ROOF AND WALLS, 40' WIDE BY 60' LONG WITH SIDEWALLS 16' TALL TO EAVES. COMPLETE 2" VINYL BACKED INSULATION.
- PROVIDE ONE HANDICAPPED ACCESSIBLE BATHROOM WITH TOILET, SINK, SHOWER, RAILS, MIRROR AND APPURTENANCES. OWNER TO PROVIDE WATER SERVICE TO 5' OUTSIDE BUILDING AND SEPTIC TANK DRAIN TO 5' OUTSIDE BUILDING. PROVIDE TANKLESS PROPANE WATER HEATER. PLUMB COMPLETE.
- INTERIOR FINISH MATERIAL IS TO BE 8' METAL PANELS WITHIN BUILDING AND WATER RESISTANT GYPSUM WALLBOARD "SHEETROCK" IN BATHROOM.
- ALL COLORS, FINISHES, ETC. ARE TO BE SELECTED BY OWNER.
- PROVIDE LED LIGHTING FIXTURES PER DESIGN STANDARDS.
- FUTURE LAYOUT IS APPROXIMATE.

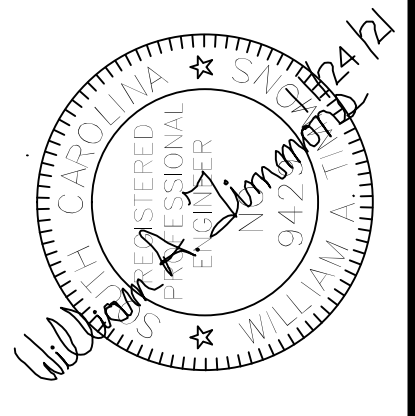
ELECTRICAL / MECHANICAL

ELECT. / MECH. NOTES

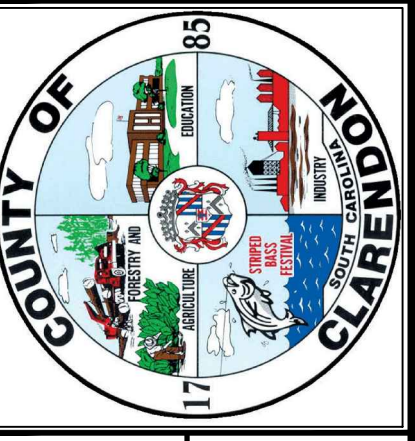
- ENTIRE INSTALLATION IS TO CONFORM TO THE NATIONAL ELECTRICAL CODE, MECH. CODES AND TO ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- EQUIPMENT AND OUTLET LOCATIONS SHOWN ARE APPROXIMATE. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC. VERIFY LOCATIONS AND LOADS IN FIELDS FOR ACTUAL EQUIPMENT SUPPLIED. INSTALL SYSTEM COMPLETE WITH ALL NECESSARY OFFSETS, BENDS, PULL BOXES, POWER FEED, DISCONNECTS, ETC.
- COORDINATE MECHANICAL CONTROLS AND POWER REQUIREMENTS WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR.
- VERIFY MECHANICAL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH OWNER.
- PLUMB BATHROOMS / BREAK AREA AS REQUIRED. VERIFY FIXTURE SELECTION WITH OWNER.
- PROVIDE GAS HEATER, PIPING, CONTROLS AS REQUIRED AND PER CODE.
- MOUNT RECEPTACLE ON JOIST ABOVE.

**BUILDING CONCEPT
PLAN AND ELEVATIONS**

DESIGN	DATE	APPROVED	DWG. NO.	REV
	11/24/2021		ENG395-100	
AS SHOWN			SHEET	2
			OF	



REVISIONS	DESCRIPTION	DATE	APPROVED



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411 SUNSET DR. - MANNING, S.C. 29102
(803) 433-3256 FAX: (803) 435-2208

Clarendon County Fire Rescue
STATION 10

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1

SPECIFICATIONS - EARTHWORK AND PAVING

1. Scope. Earthwork shall consist of furnishing all labor, materials, equipment and service required to complete all clearing, grubbing, stripping, proofrolling, excavation, filling and grading, etc. as shown on the drawings and as specified herein. Refer to Geotechnical Investigation Report furnished with Request for Bids for information on existing soils and proposed methods of construction.
2. Disposal of Materials. Properly dispose of all materials to be disposed of as a result of clearing, grubbing and stripping as allowed by federal, state and local codes.
3. Excavation. The Contractor shall perform all excavation of every description of whatever substances encountered within the grading limits of the project. All excavations shall be to the lines and grade shown on the drawings. Should unsuitable materials be encountered, then the Contractor shall excavate below the grade shown and shall replace it with suitable materials.
4. Protection of Existing Utilities. The Contractor shall be responsible for and shall take all necessary precautions to protect and preserve any and all existing culverts, cables, pipelines, conduits, subdrains, etc. or parts thereof which may be affected by his operations on the Contract (whether shown or not shown on the drawings).
5. Preparation of Ground Surface for Fill. All clearing and grubbing shall have been completed and stump holes and depressions filled and compacted before proceeding with the embankment construction. Before the embankment is placed on hillsides and slopes, the existing ground surface shall be plowed or deeply scarified or, if the nature of the ground indicates, greater precautions should be taken for binding the fill to the original ground.
6. Embankment. Embankments shall be formed by placing and spreading the material in successive, uniform, horizontal layers of not more than 8 inches in depth, loose measurement, for the full width of the cross section. Each layer of the embankment material shall be kept uniform and shaped to drain for the full width of the cross section by the use of blade graders, bulldozers, or other suitable equipment. Fills and embankments shall be constructed at the locations and alignment and grades as shown on the plans. Fill material shall be satisfactory material free from root, organic material and trash, and from stones having a maximum dimension greater than 8 inches.
7. Embankment Compaction. Each layer of embankment shall be compacted to not less than 95% of maximum Modified Proctor density before successive layers are applied. The compaction shall be accomplished by using suitable construction procedures and while the material is at a suitable moisture content.
8. Preparation of Subgrade. All unstable material which is unsuitable for compaction shall be removed and replaced with materials that are satisfactory. Any boulders shall either be removed or cut off 8 inches below subgrade. All stumps and large roots shall also be removed. Any depressions that exist or develop shall be replaced with approved materials and compacted.
9. Finished Excavation, Fills and Embankments. All areas covered by the project, including excavated and filled sections and adjacent transition areas, shall be uniformly smooth graded. The finished surface shall be reasonably smooth, compacted, and free from irregular surface changes. The degree of finish shall be that ordinarily obtainable from either bladegrader or scraper operations, supplemented with hand raking and finishing. The finished surface shall not be more than 0.10 foot above or below the established grade or approved cross section.

10. Placement of Topsoil Blanket. The ground surface shall be cleared of all stones larger than 2" in diameter, roots, cable, wire, grade stakes, and any other material or debris which might hinder proper grading, tillage or other required operations. The topsoil shall be uniformly distributed, evenly spread and rolled with a roller of one hundred pounds weight for each foot of width. The completed surface shall match finished grades as shown on the drawings. Any irregularities in the surface shall be corrected and, if necessary, additional topsoil shall be added. Topsoil shall not be placed when the topsoil or the subgrade is in a frozen or muddy condition or in a condition otherwise detrimental to subsequent operations.

11. Paved Areas. Where indicated on the plans contractor is to provide asphalt paving of the drives, parking areas, paths. Requirements are as follows:

A. Paved areas shall be graded to the typical section and in accordance with the approved plan, and shall be free of roots, trash and other objectionable materials. Streets shall be fine graded to grade stakes set on centerline at intervals of not more than 100' on straight grades and not more than 50' on curves.

B. A suitable soil for a minimum depth of eighteen (18) inches immediately below subgrade is required, so as to provide a surface which will serve the traffic needs in extremely dry weather, normal weather and wet weather. Where necessary, a stabilizing type soil shall be added and properly mixed with the soil in place for a depth of not less than six (6) inches.

C. When unsuitable material is encountered and it is necessary to perform mucking out work, the roadway shall be mucked out for its entire width, shall be backfilled with a suitable, stable type soil and shall be properly compacted.

D. The subgrade shall be thoroughly wetted and compacted for a width extending two (2) feet outside the edges of the proposed pavement before the base course is placed.

E. Grading work, paving materials, methods and equipment, unless specifically stated otherwise herein shall be in accordance with the Geotechnical Investigation Report and requirements of the S.C. State Department of Transportation Standard Specifications for Highway Construction (Sections 306, 401 through 405).

F. Subgrade and base compaction shall be tested for quality control. Minimum testing will include proofroll of the subgrade and base after compaction and just prior to placement of next course of work. Contractor shall provide a fully loaded dump truck and personnel for proofroll test. Any deficiencies discovered shall be repaired at no additional cost to the Owner. Provide 1 year warranty on work.

12. Protection. Protect newly graded areas from traffic and erosion and keep free of trash and debris. Re-establish grades in settled, eroded and rutted areas.

13. Erosion Control. Unless exposed earth areas are properly cared for during construction, they may result in substantial sedimentation damage and introduction of pollutants downstream from the construction area. The Contractor shall be responsible for conducting his site grading and drainage operations as directed and in such manner as to prevent excessive soil erosion of the construction site work areas and so as to conform fully with the requirements of the Erosion Control Plan, The Stormwater Pollution Prevention Plan, the Construction General Permit SCR100000, and all applicable regulations. Should clogging of structures occur as the result of erosion at the site of this construction, immediately remove the clogging soil and/or debris and restore the proper functioning of these structures.

14. Temporary and Permanent Vegetation. Establish temporary and/or permanent vegetation in all disturbed areas as soon as it is practical following grading or any other construction operations. See Landscaping and Erosion Control Plans for details.

END OF SECTION

SPECIFICATIONS - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 DESCRIPTION
A. Work included: Provide cast-in-place concrete, including formwork and reinforcement, where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.

1.2 QUALITY ASSURANCE
A. Comply with "Specifications for Structural Concrete for Buildings", ACI 301, except as may be modified herein.

PART 2 - PRODUCTS

2.1 FORMS

A. General
1. Construct forms in conformance with ACI 347.
2. Side forms for footing may be omitted, and concrete may be placed directly against excavation.

2.2 REINFORCEMENT

A. Comply with the following as minimums:
1. Bars: ASTM A615, Grade 60, unless otherwise shown on the Drawings, using deformed bars for Number 3 and larger;
2. Welded wire fabric: ASTM A185;
3. Bending: ACI 318.
B. Fabricate reinforcement to the required shapes and dimensions, within fabrication tolerances stated in the CRSI "Manual of Standard Practices".

2.3 CONCRETE

A. Comply with the following as minimums:
1. Portland cement: ASTM C150, Type I or II, low alkali.
2. Aggregate, ASTM C30, uniformly graded and clean.
3. Aggregate, course: Crushed rock or washed gravel with minimum size between 3/4" and 1-1/2", with a maximum size number 4.
4. Aggregate, fine: Natural washed sand of hard and durable particles varying from fine to particles passing a 3/8" screen, of which at least 12% shall pass a 50-mesh screen.
5. Water: Clean and potable.
B. Provide concrete with the 28 day compressive strengths following as minimum:
1. All structural concrete except as indicated in 2 below: 4000 psi
2. All sidewalks, curbs and gutters, and unreinforced foundations: 3000 psi

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.
B. Water, mud, organic and other detrimental material shall be removed from excavations before concrete is deposited.

3.2 REINFORCING

A. Comply with the following, as well as the specified standards, for details and methods of reinforcing placement and supports.
1. Clean reinforcement and remove loose dust and mill scale, earth, and other materials which reduce or destroy bond with concrete.
2. Position, support, and secure reinforcement against displacement by forms, construction, and the concrete placement operations.
3. Place reinforcement to obtain the required coverages for concrete protection.
4. Install welded wire fabric in as long lengths as practicable, lapping adjoining pieces one full mesh minimum.
5. Splices in reinforcement steel shall be in accordance with the latest revision of the American Concrete Institute "Building Code Requirements for Reinforced Concrete" (ACI 318).

3.3 PLACING CONCRETE

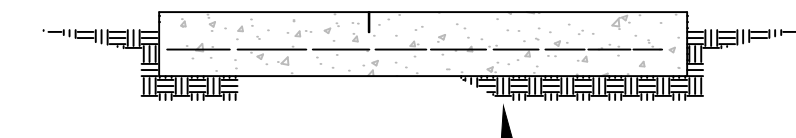
A. Mixing:
1. Transit mix the concrete in accordance with provisions of ASTM C94.
2. Do not use concrete that is not placed within 1-1/2 hours after water is first introduced into the mix.
B. Preparation:
1. Set forms for slope as indicated. Slope sidewalks adjacent building away from buildings to prevent water from entering the building. Remove foreign matter accumulated in the forms.
2. Locate and construct control and contraction joints in accordance with the Drawings. Provide 1/2" expansion material at all contact points with structure or existing sidewalk. Provide maximum contraction joints spacing of 6' in sidewalk.
C. Placing concrete slabs:
1. Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until the placing of a panel or section is completed.
2. Bring slab surfaces to the correct level with a straight edge, and then strike off.
3. Use bullfloats or darbies to smooth the surface, leaving the surface free from bumps and hollows.
4. Do not sprinkle water on the plastic surface. Do not disturb the slab surface prior to start of finishing operations.
D. Provide finish for slabs as shown on drawings or as directed by Owner. Sidewalks and curbs to have light broom finish and tooled edges.

3.4 REMOVAL OF FORMS

A. Do not disturb or remove forms until the concrete has hardened sufficiently to permit form removal with complete safety and no damage to structure. Do not remove shoring until the member has acquired sufficient strength to support its own weight, the load upon it, and the added load of construction.
B. Exercise care in removing forms from finished concrete surfaces so that surfaces are not marred or gouged, and that corners are true, sharp, and unbroken.
C. Repair any damaged areas as approved by Engineer.

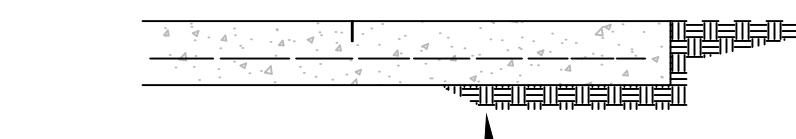
END OF SECTION

SIDEWALKS TO BE 4" THICK WITH TOOLED EDGES, CONTRACTION JOINTS MAXIMUM OF 7' SPACING AND 1/2" EXPANSION JTS. 40' SPACING AND AT BUILDING AND PAVING INTERFACE. BROOM FINISH. REINFORCE WITH 6X6 W10 X W10 WIRE. OR FIBER REINFORCED. DIMENSIONS AS SHOWN ON PLANS.



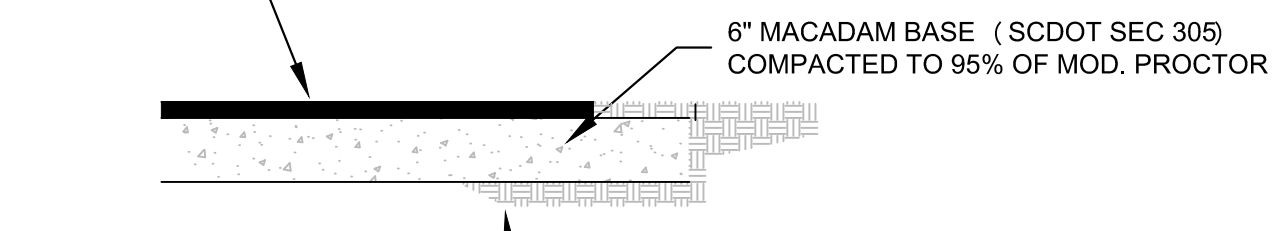
CONCRETE SIDEWALK SECTION
N.T.S.

DRIVEWAY TO BE 6" THICK WITH TOOLED EDGES, CONTRACTION JOINTS MAXIMUM OF 12' EACH WAY AND 1/2" EXPANSION JOINTS AT BUILDING AND PAVING INTERFACE. BROOM FINISH. REINFORCE WITH #3@12" EACH WAY OR 6X6 W4.7XW4.7 WIRE.



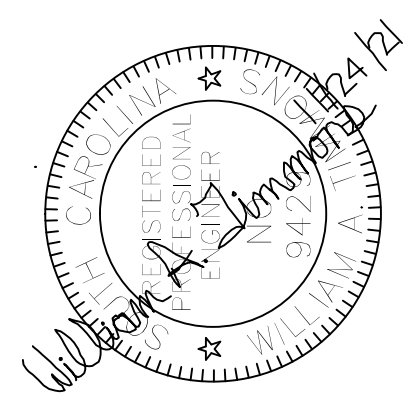
CONCRETE PAVEMENT SECTION
N.T.S.

SEE SCDOT SPECIFICATIONS FOR MORE DETAILS
2-1/2" TYPE I ASPHALTIC CONCRETE SURFACE COURSE (SCDOT SEC 403)
4" DEPTH REQUIRED FOR DRIVEWAYS WITHIN SCDOT R.W.



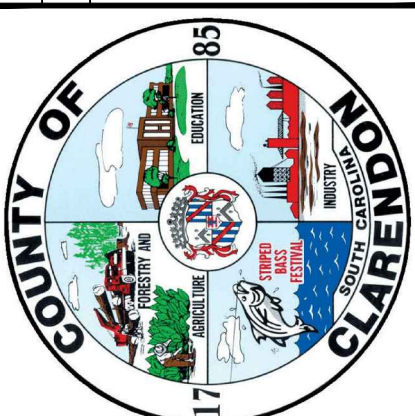
ASPHALT PAVEMENT SECTION
N.T.S.

SPECIFICATIONS AND DETAILS



REVISIONS	DATE	APPROVED
1	10/16/17	
2	10/24/17	

ADDED DOT INFORMATION AND DRAWINGS

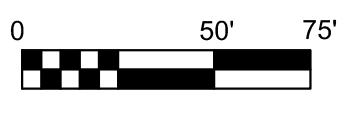
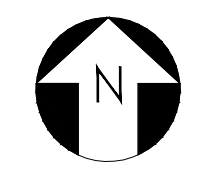


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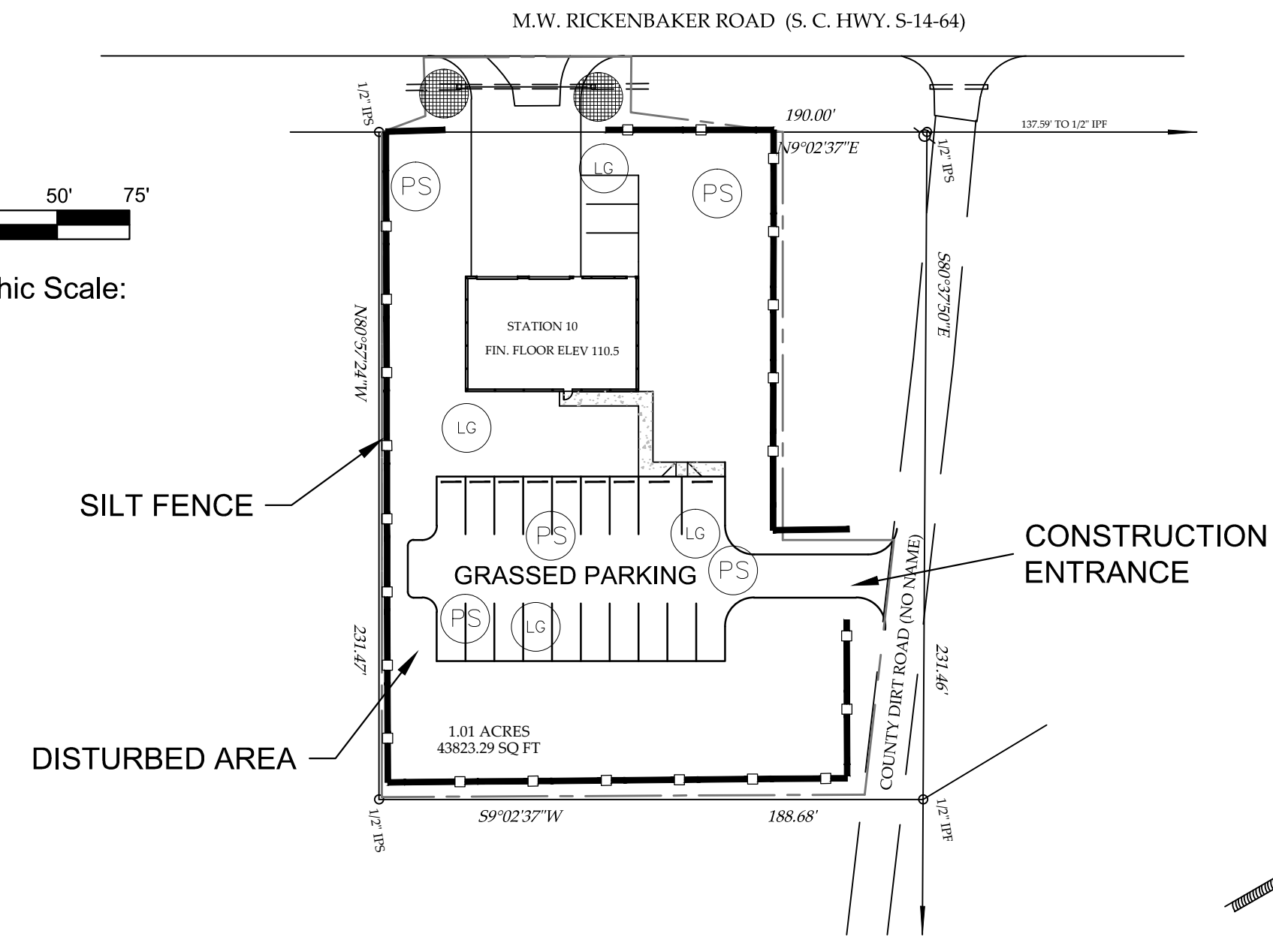
Clarendon County Fire Rescue
STATION 10

DESIGN	DATE	DRAWN	APPROVED	DWG. NO.	REV.
	11/24/21			ENG395-100	

SCALE AS SHOWN SHEET 3 OF 3



Graphic Scale:



DISTURBED AREA CALCULATION
AUTOCAD CALCULATION OF AREA SHOWN = 0.85 ACRES

EROSION CONTROL PLAN

CONSTRUCTION SEQUENCE

1. Notify SCDHEC Regional Office 48 hours prior to land disturbing activities.
2. Only clear and grub for silt fence initially.
3. Place silt fence and other controls as shown or specified.
4. Finish clearing and grubbing and grading.
5. Provide temporary grassing if required as specified.
6. Provide permanent stabilization as shown and specified.
7. Remove temporary sediment and control measures only after entire area draining to the structure is stabilized and approved by Engineer.
8. Maintain all sediment and erosion control structures for the extent of the project.

EROSION CONTROL SYMBOL LEGEND

DESCRIPTION	SYMBOL
EROSION PREVENTION AND SEDIMENT CONTROL	
LAND GRADING:	LG OR
TOPSOILING:	
TEMPORARY SEEDING:	TS
MULCHING:	M
ECB OR TRM	
PERMANENT SEEDING:	PS
SILT FENCE:	
STONE CHECK DAM	

SEEDING NOTES

TEMPORARY SEEDING NOTES:

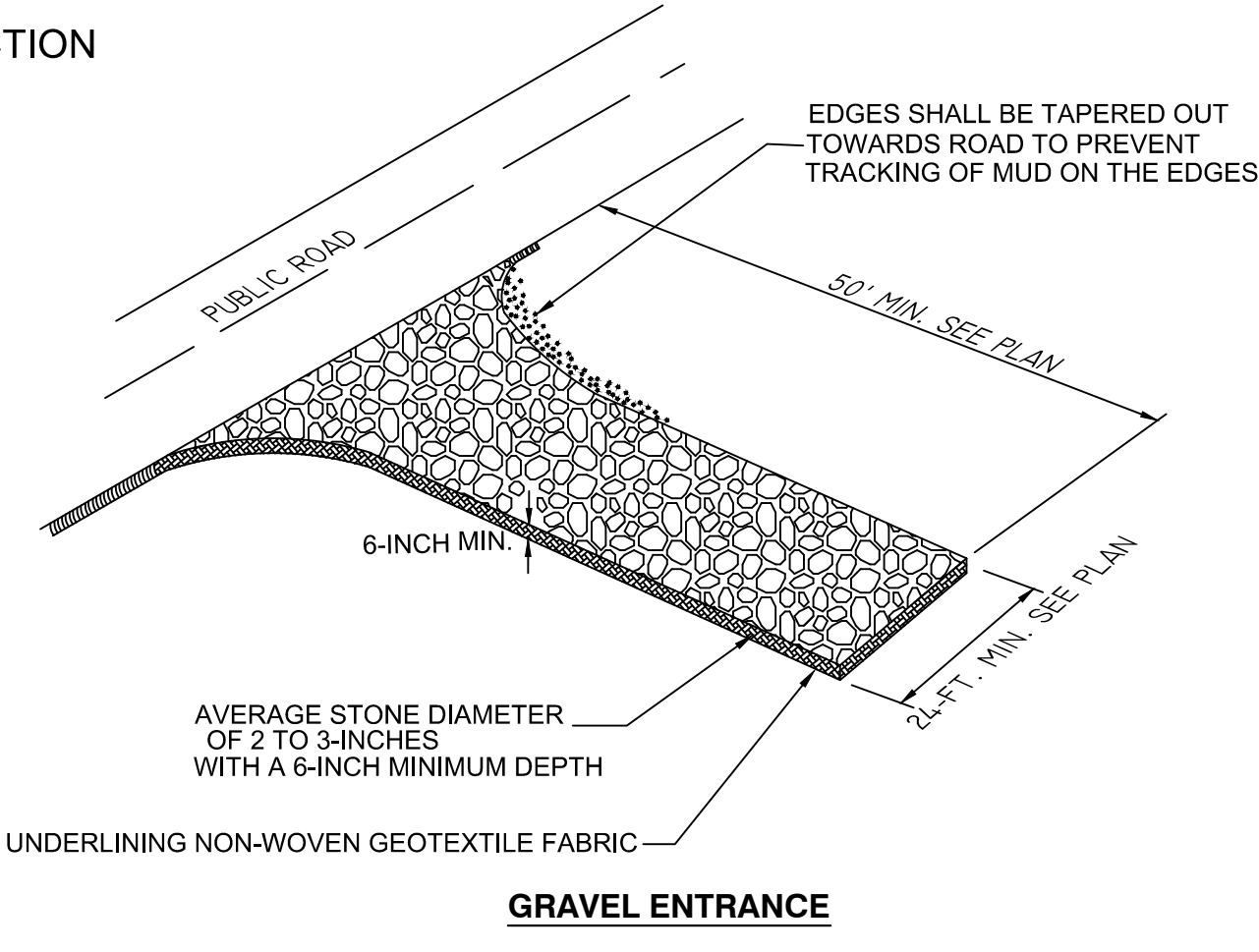
1. FOR AUGUST 15 TO APRIL 15 APPLY MINIMUM 1.5 LB OF RYE (GRAIN) PER 1,000 SQ. FT. FOR APRIL 15 TO AUGUST 15 APPLY MINIMUM OF 1.2 LB OF GERMAN MILLET PER 1,000 SQ. FT. APPROVED ALTERNATE OR MIXES MAY BE USED.
2. FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 70 LBS OF AGRICULTURAL LIMESTONE AND 25 LBS OF 10-10-10 FERTILIZER PER 1,000 SQ.FT.
3. PREPARE SEEDBED, PLANT AND MULCH AS DIRECTED BELOW.
4. IF NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 1 LB PER 1,000 SQ.FT. ANNUAL LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.
5. REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY.
6. VERIFY ALL PLANTING DETAILS WITH SEED SUPPLIER.

PERMANENT SEEDING NOTES:

1. ALL UNPAVED (NO STONE SURFACE) DISTURBED AREAS (AND LAWN TO BE REESTABLISHED) OUTSIDE PLANTING BED IS TO BE SEEDED WITH 0.3 LB/1,000 SQ.FT. OF BERMUDAGRASS MARCH 15 - JUNE 30 OR 1.5 LB /1,000 SQ.FT. OF TALL FESCUE AUG 15 - NOV 30. APPROVED ALTERNATES OR MIXES MAY BE USED.
2. FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 70 LBS OF AGRICULTURAL LIMESTONE AND 25 LBS OF 10-10-10 FERTILIZER PER 1,000 SQ.FT.
3. PREPARE SEEDBED, PLANT AND MULCH AS DIRECTED BELOW.
4. REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY.
5. VERIFY ALL PLANTING DETAILS WITH SEED SUPPLIER.

SEEDBED PREPARATION NOTES:

1. REMOVE ANY UNDESIRABLE GROUND COVER INCLUDING ANY TEMPORARY SEEDING FOR PERMANENT SEEDING INSTALLATION.
2. RIP THE AREA TO A MINIMUM DEPTH OF 4". ADD TOPSOIL IF REQUIRED FOR POOR SOIL AREAS.
3. REMOVE ALL LOOSE ROCKS, ROOTS, ETC. LEAVING SURFACE SMOOTH AND UNIFORM CONFORMING TO GRADES SHOWN ON GRADING PLAN.
4. APPLY SEED, LIME, FERTILIZER AND MIX WITH THE SOIL AS RECOMMENDED BY NURSERY OR SUPPLIER.
5. MULCH IMMEDIATELY AFTER SEEDING WITH 100 LBS PER 1,000 SQ.FT. OF STRAW OR APPROVED EQUAL. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING OR BY USE OF A MULCH ANCHORING TOOL.



STABILIZED CONSTRUCTION ENTRANCE

Inspection and Maintenance
Inspect construction entrances every seven (7) calendar days. Check for mud and sediment buildup and pad integrity. Maintenance is required more frequently in wet weather conditions. Reshape the stone pad as needed for drainage and runoff control.

Wash or replace stones as needed and as directed by the inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone.

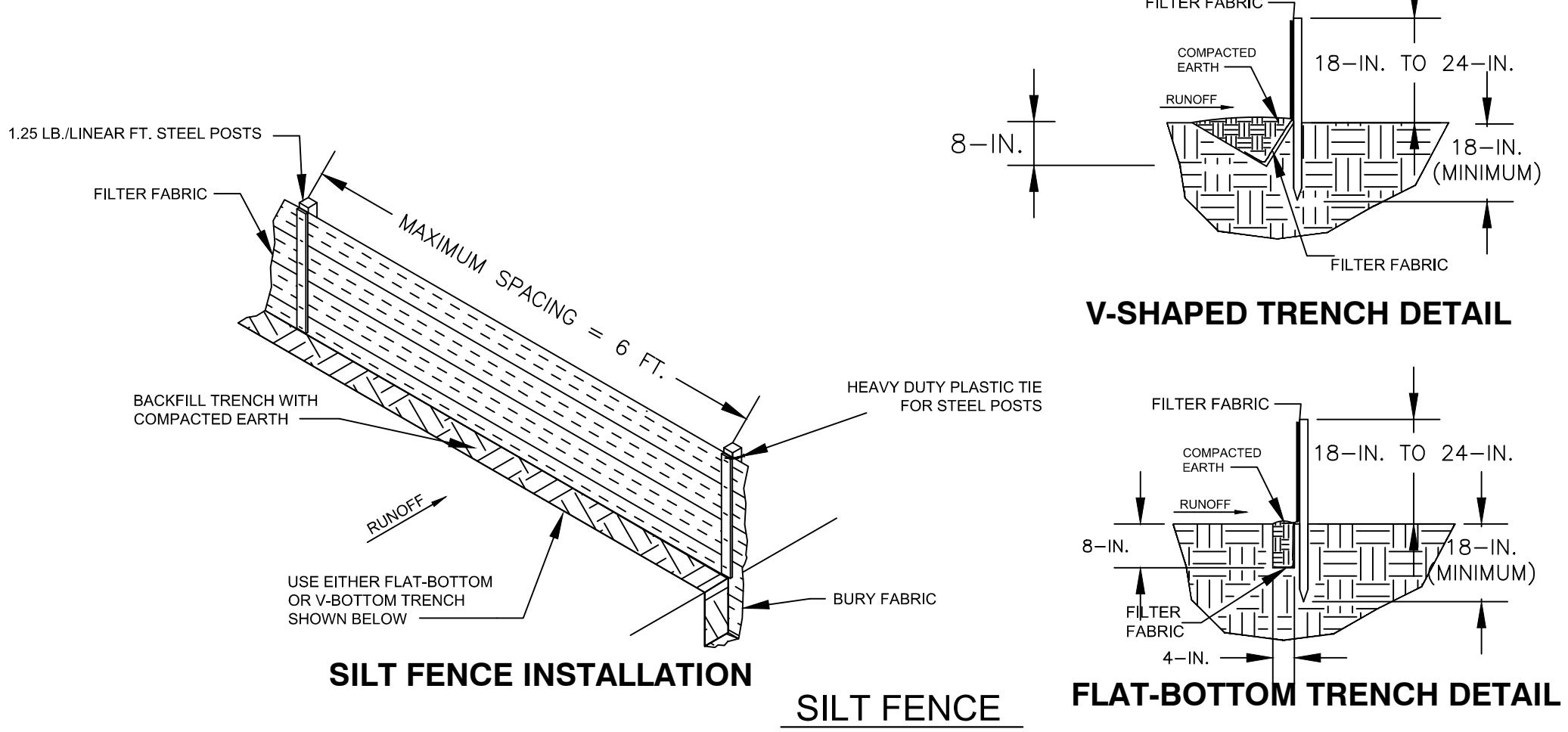
Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

Repair any broken pavement immediately.

SILT FENCE DETAIL

Installation
Excavate a trench approximately 6-inches wide and 6-inches deep when placing fabric by hand. Place 12-inches of geotextile fabric into the 6-inch deep trench, extending the remaining 6-inches towards the upslope side of the trench. Backfill the trench with soil or gravel and compact. Bury 12-inches of fabric into the ground when pneumatically installing silt fence with a slicing method. Purchase fabric in continuous rolls and cut to the length of the barrier to avoid joints. When joints are necessary, wrapped the fabric together at a support post with both ends fastened to the post, with a 6-inch minimum overlap. Install posts to a minimum depth of 24-inches. Install posts a minimum of 1- to 2- inches above the fabric, with no more than 3-feet of the post above the ground. Space posts to maximum 6-foot centers. Attach fabric to wood posts using staples made of heavy-duty wire at least 1 1/2-inch long, spaced a maximum of 6-inches apart. Staple a 2-inch wide lathe over the filter fabric to securely fasten it to the upslope side of wooden posts. Attach fabric to the steel posts using heavy-duty plastic ties that are evenly spaced and placed in a manner to prevent sagging or tearing of the fabric. In call cases, ties should be affixed in no less than 4 places. Install the fabric a minimum of 24-inches above the ground. When necessary, the height of the fence above ground may be greater than 24-inches. In tidal areas, extra silt fence height may be required. The post height will be twice the exposed post height. Post spacing will remain the same and extra height fabric will be 4-, 5-, or 6-foot tall. Locate silt fence checks every 100 feet maximum and at low points. Install the fence perpendicular to the direction of flow and place the fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.

Inspection and Maintenance
Inspect every seven calendar days. Check for sediment buildup and fence integrity. Check where runoff has eroded a channel beneath the fence, or where the fence has sagged or collapsed by fence overtopping. If the fence fabric tears, begins to decompose, or in any way becomes ineffective, replace the section of fence immediately. Remove sediment accumulated along the fence when it reaches 1/3 the height of the fence, especially if heavy rains are expected. Remove trapped sediment from the site or stabilize it on site. Remove silt fence within 30 days after final stabilization is achieved or after temporary best management practices (BMPs) are no longer needed. Permanently stabilize disturbed areas resulting from fence removal.

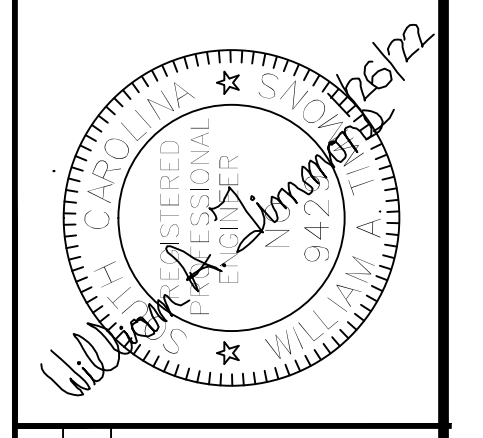


EROSION CONTROL NOTES:

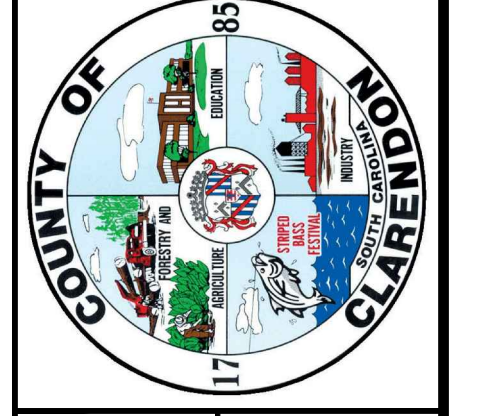
1. Implement erosion control features shown prior to construction work on site. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
2. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
 - a. Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
 - b. Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the Site.
3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately or incorrectly installed, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.
4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any sediments before being pumped back into any waters of the State.
5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as required.
7. Note on subdivisions not included.
8. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
9. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.
11. A copy of the SWPPP, inspections records, and rainfall data 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 that final stabilization is reached.
12. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
13. Minimize soil compaction and unless infeasible, preserve topsoil.
14. 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.
15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMP's (sediment basin, filter bag, etc.).
16. The following discharges from sites are prohibited: (1) Wastewater from washout of concrete, unless managed by an appropriate control; (2) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials; (3) Fuels, oils or other pollutants used in vehicle and equipment operation and maintenance; and (4) Soaps or solvents used in vehicle and equipment washing.
17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.
18. If existing BMP's need to be modified or if additional BMP's are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and, alternative BMP's must be implemented as soon as reasonably possible.
19. A Pre-Construction conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless SCDHEC has approved otherwise.
20. Provide sanitary facilities for workers on the site.
21. Redistribute sediment collected on site prior to grassing or dispose of in other approved method only.

EROSION CONTROL PLAN

WAT	WAT	WAT	REV
DESIGN	DRAWN	APPROVED	
DATE	DWG. NO.	SCALE	OF
11/24/21	ENG395-100	AS SHOWN	4



REVISIONS	DESCRIPTION	DATE	APPROVED
1	REVISED ECP FOR SEPTIC AND PARKING	11/25/22	



Clarendon County Engineering
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Clarendon County Fire Rescue
STATION 10