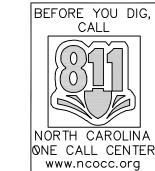


EDGECOMBE COUNTY ANIMAL FACILITY





ANACONDA ROAD TARBORO, NORTH CAROLINA JULY 15, 2024

Owner/Developer:

EDGECOMBE COUNTY P.O. BOX 10 TARBORO. NC 27886

Civil Engineer:



Contact: J. Michael Stocks, PE mstocksestocksengineering.com License Number: 19843

Surveyor:

STOKES SURVEYING AND MAPPING 1425 ROCK QUARRY ROAD RALEIGH. NC 27610 PHONE: (919) 977-7825

INDEX OF SHEETS

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SITE INFORMATION

LOCATION: COUNTY: SIZE AREA: PIN:	TARBORO, NC 27886 EDGECOMBE 31.39 ACRES
TOWNSHIP	TARBORO
ZONING EXISTING USE PROPOSED USE TOTAL BUILDING SIZE	, JAIL / MAINTENANCE , ANIMAL SHELTER
MINIMUM BUILDING SETBACKS PRIMARY ST SIDE REAR EXTERIOR SETBACK PARKING REQUIREMENTS	, 0 , 0
TOTAL PARKING REQUIRED	N/A
PARKING PROVIDED REGULAR 9' X 19' H.C. H.C. (VAN ACCESSIBLE) TOTAL PARKING PROVIDED	, 1 , 1
IMPERVIOUS CALCULATIONS TOTAL SITE AREA: 2004 IMPERVIOUS TOTAL PROPOSED IMPERVIOUS RIVER BASIN DISTURBED AREA	, 4.31 Ac. , 5.37 Ac. (17.1%) , TAR-PAM

GENERAL SITE NOTES

- TOPOGRAPHICAL AND BOUNDARY DATA PERFORMED BY STOKES SURVEYING AND MAPPING, PLLC. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID
- ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF
- OFF-SITE BY THE CONTRACTOR IN AN APPROVED SOLID WASTE LANDFILL. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 48 HOURS PRIOR TO DIGGING @ 1.800.632.4949. BASS, NIXON, & KENNEDY INC. HAS ONLY LOCATED THE UTILITIES THAT ARE ABOVE GROUND AT THE TIME OF FIELD SURVEY. UNDERGROUND LINES SHOWN HEREON ARE APPROXIMATE OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. THE SURVEYOR DOES NOT GUARANTEE THAT ANY UNDERGROUND STRUCTURE SUCH AS UTILITIES, TANKS AND PIPES ARE LOCATED HEREON. ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES AND ARE APPROXIMATE.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL
- 9. ALL CONSTRUCTION AND MATERIALS SHALL MEET NCDOT STANDARDS, LATEST EDITION. ALL WORK WITHIN NCDOT RIGHT-OF-WAY SHALL MEET THE SPECIFICATIONS AND STANDARDS OF NCDOT AND MUTCD. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL MEASURES PER NCDOT AND MUTCD STANDARDS AND SPECIFICATIONS,
- THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD ZONE PER FEMA MAP 12. ALL LOT DIMENSIONS SHOWN ARE APPROXIMATE. CONSULT THE BOUNDARY SURVEY FOR ACTUAL SITE BOUNDARY INFORMATION. 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT RIGHT-OF-WAY. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM
- TRAFFIC CONTROL DEVICES (MUTCD), 2003 EDITION AS AMENDED. 14. PRIOR TO PLACING CABC STONE BASE, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER TO INSPECT AND PROOF ROLL THE SUBGRADE. ANY STONE PLACED WITHOUT PRIOR APPROVAL WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 15. DESIGN/FIELD CONDITIONS QUITE EASILY MAY VARY FROM THAT REPRESENTED IN THE INITIAL SOILS REPORT AND/OR DISCOVERED THAT WERE NOT REVEALED DURING THE INITIAL SOILS INVESTIGATION. THEREFORE, THE CONTRACTOR IS TO BE AWARE THAT STOCKS ENGINEERING, P.A. WILL NOT AND CANNOT BE HELD RESPONSIBLE FOR ANY FAILURES TO STREET PAVEMENT DESIGN AS A RESULT OF SOIL CONDITIONS.
- 16. ALL UTILITY SERVICES, (POWER, TELEPHONE, CABLE, ETC.) ARE PROPOSED TO BE UNDERGROUND. DO NOT SEED OR MULCH DISTURBED AREAS UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED. UTILITY CONTRACTORS TO BRING MAIN SERVICES TO R/W AS SHOWN IN PLANS.
- REGULATORY SIGNS, STOPS SIGNS AND STREET NAME SIGNS SHALL BE MANUFACTURED FROM HIGH INTENSITY REFLECTIVE MATERIALS AND SHALL BE SUPPLIED BY THE CONTRACTOR.
- 18. ALL EXCESS TOPSOIL AND UNCLASSIFIED EXCAVATION IS TO BE HAULED OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE
- 19. ALL SITE CONSTRUCTION MUST BE INSPECTED BY THE PROJECT ENGINEER AT THE FOLLOWING STAGES: •• COMPLETION OF GRADING SUBGRADE PRIOR TO PLACING STONE BASE.
- •• COMPLETION OF STONE PLACEMENT PRIOR TO PAVING. •• FINAL INSPECTION WHEN ALL WORK IS COMPLETE.
- 20. THE SURVEYOR DID NOT VISIBLY SEE ANY CEMETERIES IN ANY OPEN AREAS UNLESS OTHERWISE NOTED.
- 21. CONTRACTOR TO FURNISH ALL PAINT AND THERMOPLASTIC STRIPING AND MARKING AS SHOWN. 22. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT (EOP) UNLESS INDICATED OTHERWISE.
- 23. CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITIONS WHERE EXISTING ASPHALT AND/OR CURB AND GUTTER IS TO BE REMOVED, OR WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT.
- 24. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12 INCHES, WHICH EVER IS LESS, CONTACT THE PROJECT ENGINEER AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 25. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. THE OWNER AND STOCKS ENGINEERING, P.A. ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
- 26. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT. PREPARATION OF THE NECESSARY/REQUIRED AS-BUILT PLANS TO BE SUBMITTED TO THE ENGINEER AND ALL OTHER INFORMATION REQUIRED IN CONNECTION WITH RELEASE OF BONDS.
- 27. THE LAND DISTURBANCE PERMIT MUST BE KEPT ON THE WORK SITE AND SHOWN UPON REQUEST. 28. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DE-WATERING NECESSARY TO CONSTRUCT THE PROJECT AS
- 29. THE CONTRACTOR SHALL INCLUDE IN THE PRICE, ANY AND ALL COSTS ASSOCIATED WITH PROVIDING A PROFESSIONAL ENGINEER ON SITE IF REQUIRED, DURING THE CONSTRUCTION OF THE STORM WATER MANAGEMENT FACILITIES, UNDERGROUND
- UTILITIES, ETC. AS REQUIRED FOR AS-BUILT CERTIFICATION. 30. ALL GRASS, TOPSOIL AND 'BUILDING DEBRIS MATERIAL' DUMPED ONSITE SHALL BE REMOVED PRIOR TO PLACEMENT OF STRUCTURAL FILL MATERIAL.
- 31. ALL GENERATED WASTE SHALL BE DISPOSED OF OFF-SITE AS DIRECTED BY THE OWNER AT AN APPROVED LANDFILL 32. DO NOT APPLY PERMANENT SEED AND MULCH UNTIL UNDERGROUND ELECTRIC HAS BEEN INSTALLED.
- 33. ALL RIGHT-OF-WAYS ARE TO BE PUBLIC. 34. EVALUATION OF 404 JURISDICTIONAL WETLANDS: NO FILLING OR GRADING IS TO BE PERFORMED IN AREAS DESIGNATED AS
- 404 JURISDICTIONAL WETLAND UNTIL AN APPROVED PERMIT HAS BEEN OBTAINED FROM THE USCOE AND NCDEM DWQ.
- 35. THE SITE IS TO BE SERVED BY PUBLIC SEWER AND PUBLIC WATER. 36. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF UNDERGROUND UTILITIES AND SHALL REGRADE AND RESEED ANY AREAS DISTURBED DURING INSTALLATION.
- 37. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE GOVERNING AGENCY'S LAND DEVELOPMENT CODE AND MANUAL OF SPECIFICATIONS AND DETAILS, LATEST EDITION.
- 38. THIS PLAN IS VALID FOR TWO (2) YEARS FROM THE DATE OF APPROVAL. 39. THE DISTURBED AREA FOR THIS PROJECT IS GREATER THAN 1.0 ACRE. THE TOTAL IMPERVIOUS AREA FOR THE PROJECT IS
- <24% OF THE OVERALL ACREAGE OF THE PROJECT TRACT. THEREFORE, STORMWATER DETENTION AND NUTRIENT MANAGEMENT</p> 40. THE DISTURBED AREA FOR THIS PROJECT IS GREATER THAN 1.0 ACRE, THEREFORE, A FORMAL SEDIMENTATION AND EROSION
- CONTROL PLAN AND PERMIT ARE REQUIRED PRIOR TO ANY GRADING OR CONSTRUCTION ON THE SITE.
- 41. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, ENCROACHMENT AGREEMENTS, AND DRIVEWAY PERMITS.
- 42. CONTRACTOR/OWNER/DEVELOPER IS RESPONSIBLE FOR ALL COSTS RELATED TO THE RELOCATION OF ANY EXISTING UTILITIES. 43. CONTRACTOR/ OWNER/ DEVELOPER SHALL BE RESPONSIBLE FOR ANY COSTS IN EXCESS OF NORMAL CONSTRUCTION METHODS DUE TO ADVERSE CONDITIONS OR FAILURE TO GIVE NOTICE THAT PRECLUDE THE USE OF THE CITY'S STANDARD INSTALLATION METHODS. EXAMPLES OF SUCH ARE, BUT NOT LIMITED TO, BORING, CONDUIT INSTALLATION, PAVEMENT PATCHING, CONCRETE REPLACEMENT, AND LANDSCAPING.
- 44. THE CONTRACTOR IS RESPONSIBLE FOR CALLING THE NC ONE CALL CENTER AT 811 TO LOCATE EXISTING UTILITIES PRIOR TO
- 45. SUBJECT PROPERTY IS SUBJECT TO ANY RESTRICTIONS, EASEMENTS AND RIGHTS-OF-WAY OF RECORDED, IF ANY.

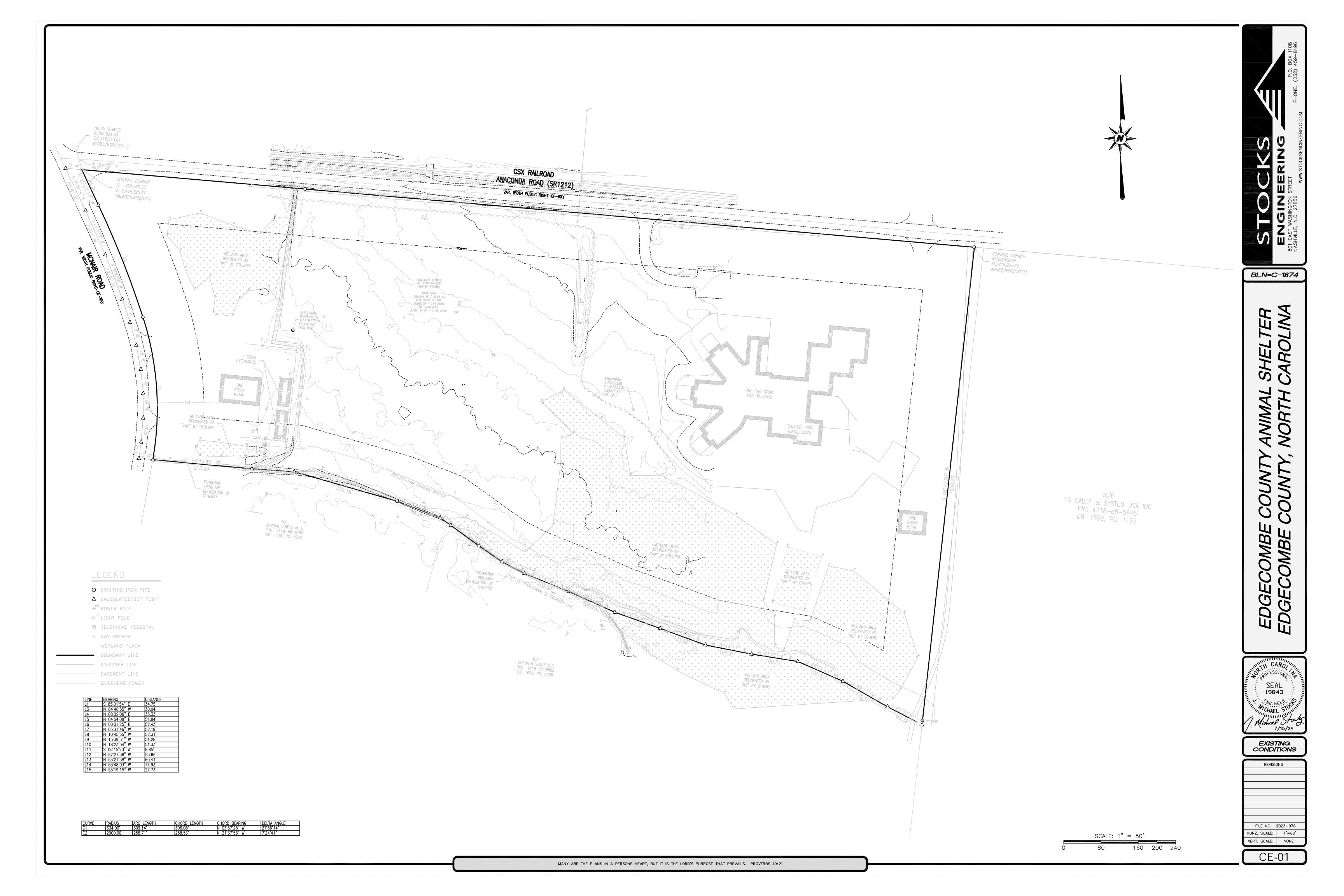


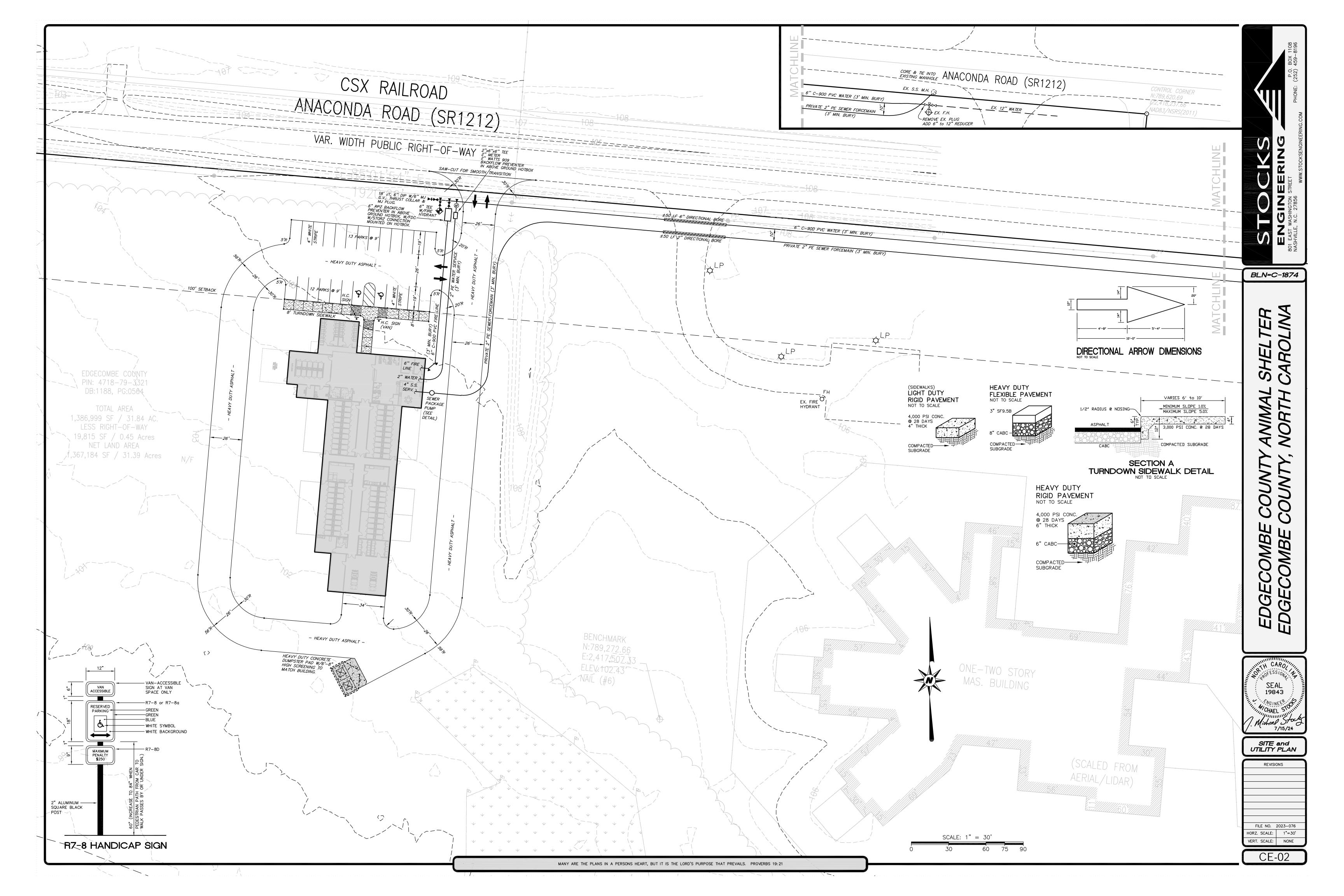
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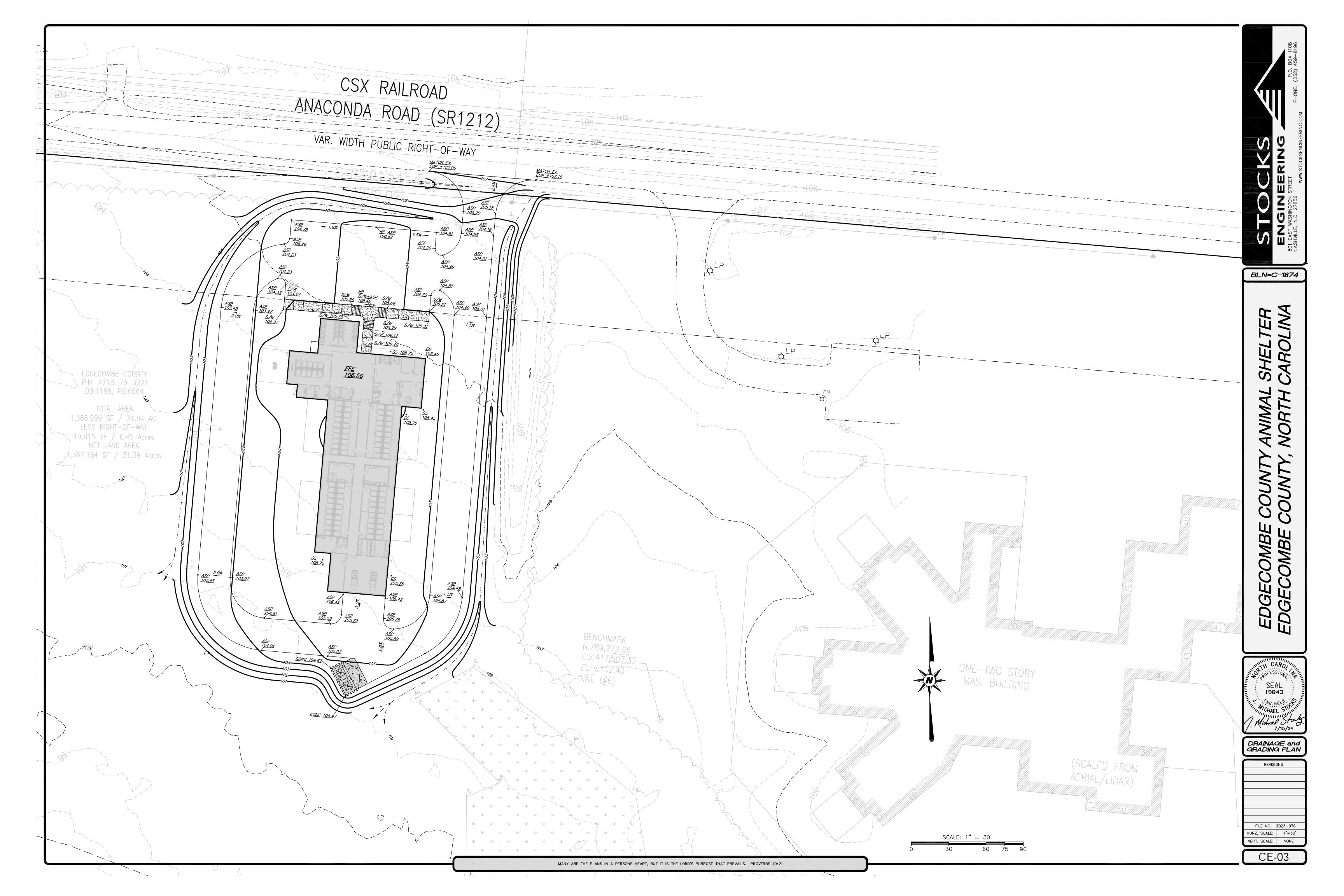
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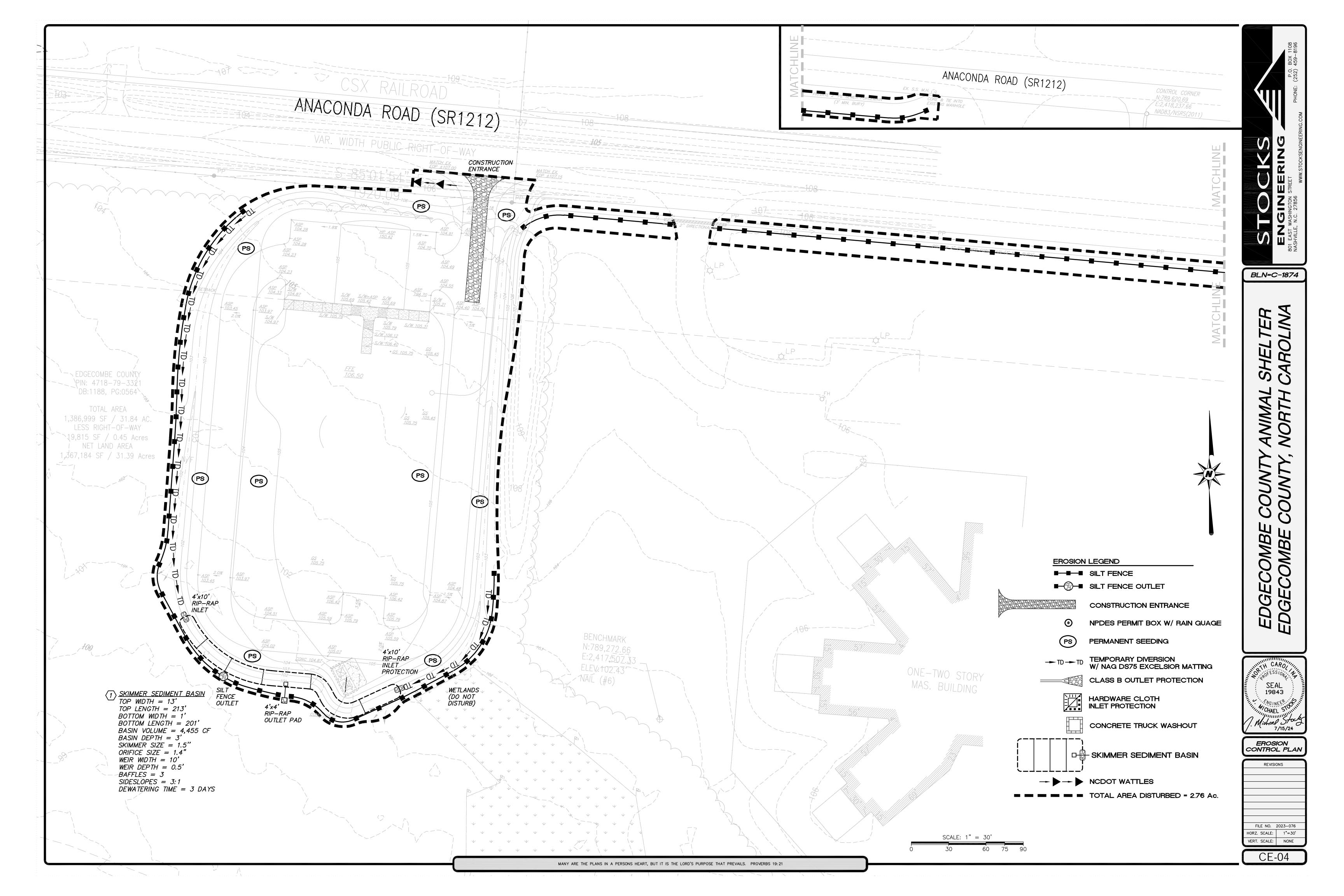
REVISIONS

HORZ. SCALE: VERT. SCALE: NONE









EROSION AND SEDIMENTATION CONTROL NARRATIVE

PROJECT DESCRIPTION THE PURPOSE OF THIS PROJECT IS FOR CONSTRUCTION OF A NEW ANIMAL CONTROL FACILITY WITH ASSOCIATED PARKING. THE PROJECT IS OWNED BY EDGECOMBE COUNTY, NC. THE SITE IS CURRENTLY UTILIZED AS A JAIL AND MAINTENANCE BUILDING WITH THE REMAINING BEING WOODED. APPROXIMATELY 2.76 ACRES WILL BE DISTURBED DURING CONSTRUCTION. THE MAXIMUM FILL WILL BE 3-4 FEET.

THE PROJECT IS SCHEDULED TO BEGIN CONSTRUCTION IN FALL OF 2024 WITH PROJECT COMPLETION AND FINAL STABILIZATION BY FALL OF 2025. THE EROSION AND SEDIMENT CONTROL PROGRAM FOR THIS PROJECT WILL INCLUDE THE INSTALLATION OF A SUITABLE CONSTRUCTION OF THE SITE OF AND SEDIMENT BASIN WITH TEMPORARY SEEDING OF THE SITE.

<u>ADJACENT PROPERTY</u> SEE EXISTING CONDITIONS, SHEET CE.01, FOR ADJACENT PROPERTY OWNERS.

SOILS THE SOILS AT THIS SITE ARE A SANDY LOAM, 2% TO 6% SLOPES.

EROSION AND SEDIMENT CONTROL MEASURES

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR ACCORDING TO THESE PLANS AND SPECIFICATIONS AND THE MINIMUM STANDARDS REQUIRED BY THE TOWN OF YOUNGSVILLE. THE CONTRACTOR SHALL ALSO FOLLOW ANY ADDITIONAL REQUIREMENTS AS OUTLINED BY THE

STRUCTURAL PRACTICES

- 1. VEHICLE WHEELS SHALL BE CLEAN WHEN LEAVING THE SITE TO PREVENT THE TRACKING OF MUD ON PAVED ROADS. 2. CONSTRUCTION ROAD STABILIZATION: CONSTRUCTION TRAFFIC SHALL BE LIMITED TO STABILIZED AREAS. AT A
- MINIMUM, A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE PROVIDED AS SHOWN ON THIS DRAWING. 3. SILT FENCE: SILT FENCES SHALL BE PROVIDED WHERE SHOWN AND AS NEEDED ON THE SITE PLAN. THESE BARRIERS
- SHALL BE USED TO CONTAIN SEDIMENT. 4. RIP RAP/GRAVEL FILTER SEDIMENT BASINS: CONSTRUCT BASIN TO THE SHAPE AND DIMENSIONS SHOWN IN THE
- DIMENSIONED. 5. FIBERGLASS NETTING DITCH LINER: IN LOCATIONS SHOWN, PLACE FIBERGLASS NETTING OVER SEED, STRAW AND TACK. SIZE AND DIMENSIONS ARE SHOWN ON THE PLANS.

DETAILS. THE BASIN IS TO BE PLACED BELOW THE EXISTING DITCH FLOW LINE BY 2' WITH THE BERM BUILT ABOVE AS

MANAGEMENT STRATEGIES

- 1. PERIMETER MEASURES ARE TO BE INSTALLED PRIOR TO GRUBBING OR GRADING.
- 2. TAIL DITCHES SHALL BE STABILIZED IMMEDIATELY FOLLOWING THEIR CONSTRUCTION. AS AN ALTERNATE, ROCK CHECK DAMS MAY BE PROVIDED AT THEIR OUTLETS AND/OR THE TERMINAL DOWNSTREAM END OF DISTURBANCE UNTIL GROUND COVER IS IMPLEMENTED & ESTABLISHED.
- 3. STOCKPILE AND/OR WASTE AREAS MUST BE MAINTAINED WITHIN THE LIMITS OF THE AREAS PROTECTED BY THE
- PROPOSED MEASURES AND OTHERWISE TEMPORARILY SEEDED IF TO BE LEFT STOCKPILED OVER 15 DAYS. 4. CONSTRUCTION SHALL BE PLANNED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- 5. SILT FENCES SHALL ALSO BE INSTALLED PRIOR TO OR AS A FIRST STEP IN CONSTRUCTION. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT

VEGETATIVE PRACTICES (GROUND STABILIZATION)

PREPARE SEEDBED WITH A SOIL CONDITIONER OR TILLER TO A DEPTH OF 6". ALL LANDSCAPE AREAS SHALL BE FREE OF

Site Area Description:	Stabilization Time Frame:	Stabilization Time Frame Exceptions:
Perimeter dikes, swales, ditches & slopes.	7 Days	None
High Quality Water (HQW) Zones.	7 Days	None
Slope steeper than 3:1	7 Days	If slopes are 10' or less in length & are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter.	14 Days	7 Days for slopes greater than 50 feet in length.
All other areas with slopes flatter than 4:1	14 Days	None (Except for perimeters and HQW Zones)

TEMPORARY SEEDING SPECIFICATIONS

SEED SPECIES RATE (LB/ACRE) WINTER RYE GRAIN (COOL SEASON) GERMAN MILLET (WARM SEASON)

APPLY LIME AND FERTILIZER ACCORDING TO TESTS, OR APPLY 4,000 LB/ACRE GROUND AGRICULTURE LIMESTONE

APPLY 4,000 LB/ACRE GRAIN STRAW, OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCHING MATERIAL. ANCHOR MULCH BY TACKING WITH ASPHALT @ 400 GAL/ACRE OR NETTING. NETTING IS THE PREFERRED ANCHORING

MAINTENANCE REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

ON SANDY SOILS AND 6,000 LB/ACRE ON CLAYEY SOILS. APPLY 750 LB/ACRE 10-10-10 FERTILIZER.

PERMANENT SEEDING SPECIFICATIONS

SEED SPECIES
TALL FESCUE (COOL SEASON)

ZOYSIA (WARM SEASON)

NURSE PLANTS
BETWEEN APR. 15 AND AUG. 15, ADD 10 LB/ACRE GERMAN MILLET OR 15 LB/ACRE SUDANGRASS. PRIOR TO MAY 1

OR AFTER AUG. 15 ADD 25 LB/ACRE RYE (GRAIN). SEEDING DATES

EARLY SPRING: FEB. 15-APR. 30 SEPT. 1-OCT. 31 FEB. 15-MAR. 2 SEPT. 1-SEPT. 3

SOIL AMENDMENTS APPLY LIME AND FERTILIZER ACCORDING TO TESTS, OR APPLY 4,000 LB/ACRE GROUND AGRICULTURE LIMESTONE

ON SANDY SOILS AND 6,000 LB/ACRE ON CLAYEY SOILS. APPLY 750 LB/ACRE 10-10-10 FERTILIZER. APPLY 4,000 LB/ACRE GRAIN STRAW, OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCHING MATERIAL. ANCHOR MULCH BY TACKING WITH ASPHALT @ 400 GAL/ACRE OR NETTING. NETTING IS THE PREFERRED ANCHORING

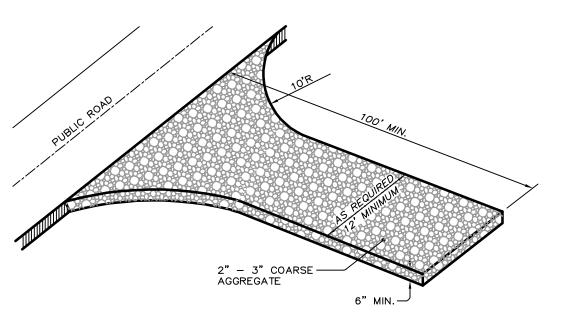
METHOD ON STEEP SLOPES.

- 1. RESEED AND MULCH BARE SPOTS LARGER THAN 9 SQUARE FEET (LIMITED TO 5% MAXIMUM OF SITE AREA.)
 2. MAINTAIN ALL SEEDED AREAS UNTIL UNIFORM STAND IS ACCEPTABLE.
- 3. IF GROWTH IS NOT ESTABLISHED BY FINAL PROJECT INSPECTION, CONTINUE SPECIFIED ATTENTION UNTIL THE STAND IS ACCEPTABLE.
- 4. CORRECT AND REPAIR ALL UNDUE SETTLING AND EROSION WITHIN 1 YEAR AFTER FINAL INSPECTION. 5. REMOVE FROM THE SITE, ALL EROSION CONTROL STRUCTURES AFTER COMPLETE STABILIZATION AT END OF CONSTRUCTION
- 6. REMOVE SILT FROM SEDIMENT PITS AND FROM BEHIND CHECK DAMS WHEN SILT IS WITHIN HALF DEPTH OF THE PIT
- OR SPILLWAY. DISPOSE OF IN AN AREA WHERE SILT CANNOT RE-ENTER PIT / TRAP. 7. PLACE ROCK FROM ROCK CHECK DAMS AND GRAVEL / RIP RAP FILTER BASINS IN DITCH LINE AS ARMOR PROTECTION. DO NOT DISPOSE OF ROCK. ALL STONE ARMOR PROTECTION IS TO FIT CONTOUR OF CHANNEL. DO NOT DUMP, BUT HANDSPREAD.

CALCULATIONS

THE PRACTICE UTILIZED FOR THE PROPOSED SITE DID REQUIRE FORMAL CALCULATIONS. CALCULATIONS HAVE BEEN PROVIDED.

EDGECOMBE COUNTY PO BOX 10 TARBORO, NC 27886



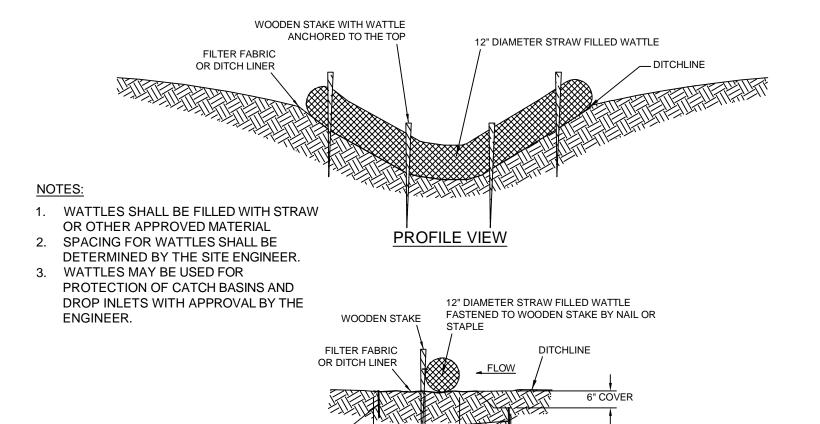
CONSTRUCTION SPECIFICATIONS:

1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL

AND PROPERLY GRADE IT. 2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT. . PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET. 4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

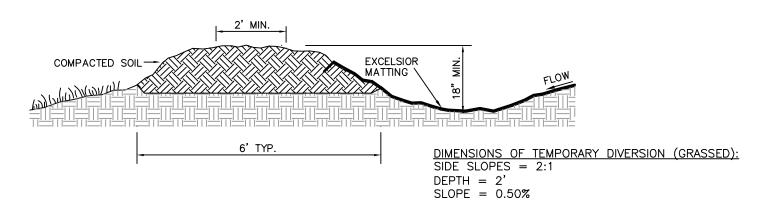
CONSTRUCTION ENTRANCE



Inspect wattles in channels at least weekly and after each significant (1/2 in or greater) rainfall event and repair immediately. Clean out sediment, straw, limbs, or other debris that could clog the channel when needed.

8" FABRIC STAPLE

NCDOT WATTLE



CONSTRUCTION SPECIFICATIONS: 1 REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL 2. ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS. 3. ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT. 4. PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGRADING AND 5. VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

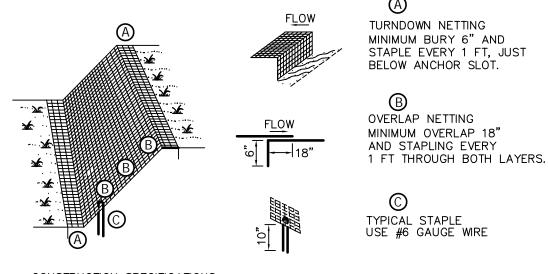
TEMPORARY DIVERSION

CONSTRUCTION SEQUENCE

- 1. OBTAIN EROSION CONTROL PLAN APPROVAL AND A CERTIFICATE OF COVERAGE PRIOR TO BEGINNING LAND DISTURBANCE. RETAIN A COPY OF THE APPROVED EROSION CONTROL PLAN AND PERMIT ONSITE. CALL THE TOWN OF YOUNGSVILLE TO NOTIFY THE INSPECTOR OF A START DATE PRIOR TO LAND DISTURBANCE.
- 2. CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT (919) 791-4200 AT LEAST 48 HOURS PRIOR
- TO COMMENCING LAND DISTURBING ACTIVITIES. CONSTRUCT THE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN.

MAINTAIN THE CONSTRUCTION ENTRANCE DAILY TO ENSURE THAT MUD AND SILT WILL NOT BE

- TRACKED ONTO PAVED SURFACE. IF MUD IS TRACKED ONTO THE ROAD SURFACE, IT IS TO BE 5. INSTALL NPDES PERMIT BOX AND RAIN GAUGE. ENSURE ALL PERMITS, PLANS, AND INSPECTION
- FORMS ARE KEPT IN PERMIT BOX. 6. SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL ESC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING. MAINTAIN EROSION CONTROL MEASURES DAILY AND RESEED
- DISTURBED AREAS AS NEEDED. CONSTRUCT ALL PERIMETER EROSION CONTROL MEASURES TO CONTAIN SEDIMENT ON-SITE. CONSTRUCT THE SILT FENCE, SILT FENCE OUTLETS, SKIMMER BASIN, SKIMMER BASIN OUTLET PIPE MATTING, AND TEMPORARY DIVERSIONS WITH MATTING AS SHOWN ON PLAN. PERMANENTLY SEED ALL AREAS THAT WILL NEED TO BE DISTURBED DURING
- CONSTRUCTION. CLEAR ONLY WHAT IS NECESSARY TO INSTALL THESE EROSION CONTROL DEVICES. NO ADDITIONAL CLEARING IS ALLOWED UNTIL THESE MEASURES ARE INSTALLED.
- 8. BEGIN CLEARING AND GRUBBING AND STRIPPING OF TOPSOIL. STORMWATER DITCH INSTALLATION SHALL BE SEQUENCED AS FOLLOWS: AFTER INITIAL EROSION CONTROL MEASURES & DEVICES HAVE BEEN INSTALLED, CONTRACTOR SHALL INSTALL STORM DRAINAGE SYSTEM STARTING FROM THE LOW INVERT HEADING TOWARD THE HIGH INVERT. CONTRACTOR SHALL IMMEDIATELY INSTALL WATTLES.
- 10. BEGIN SITE CONSTRUCTION AND OR UTILITY CONSTRUCTION. 11. INSTALL ALL PRIMARY DRAINAGE DITCHES AND PIPES.
- 12. SEED, STRAW, AND TACK ALL AREAS THAT ARE GRADED TO THEIR FINAL DISPOSITION. 13. CONTINUE GRADING AND CONSTRUCTION OF THE PROJECT. FOLLOW SEEDING TABLE ON THIS
- PAGE FOR TEMPORARY SEEDING. 14. GROUND STABILIZATION WILL BE APPLIED WITHIN 14 CALENDAR DAYS FROM LAST LAND DISTURBING ACTIVITY. FOR STEEP SLOPES, THAT AREA MUST BE STABILIZED WITHIN 7 CALENDAR
- 15. PERMANENTLY SEED ALL DISTURBED AREAS. REFER TO SEDIMENT BASIN TO WETLAND
- CONVERSION PROCEDURE BELOW. 16. AFTER THE SITE IS COMPLETELY STABILIZED AND THE PROJECT ENGINEER HAS CERTIFIED COMPLETION AND STABILIZATION. ALL TEMPORARY EROSION CONTROL MEASURES ARE TO BE
- REMOVED AND ALL DISTURBED AREAS ARE TO BE SEEDED. 17. WHEN THE PROJECT IS COMPLETE AND PERMANENTLY STABILIZED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT deq.nc.gov/NCG01 TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE e-NOT HAS BEEN FILLED OUT.



CONSTRUCTION SPECIFICATIONS: 1. APPLY SEED, AND TACK WITH RS OR CRS LIQUID EMULSIFIED ASPHALT AT A RATE EQUAL TO 10 GAL. PER 1000 S.F. COVER W/EXCELSIOR MATTING. 2. STAPLE EVERY 24" ALONG PERIMETER EDGES AND OVERLAPS. STAPLE EVERY 36" TO 48" RANDOMLY TO SECURE NETTING. 3. ROLL OUT NETTING IN THE DIRECTION OF WATER FLOW. DO NOT STRETCH.

4. TYPE NAG 0575 OR EQUAL.

Maintenance 1. Inspect Rolled Erosion Control Products at least weekly and after each significant (1/2 inch or greater) rain fall event repair immediately.

- 2. Good contact with the ground must be maintained, and crosion must not occur beneath the RECP.
- 3. Any areas of the RECP that are damaged or not in close contact with the ground shall be repaired and stapled. 4. If erosion occurs due to poorly controlled drainage, the problem shall be
- fixed and the eroded area protected.
- 5. Monitor and repair the RECP as necessary until ground cover is

EXCELSIOR MATTING



BLN=C-1874

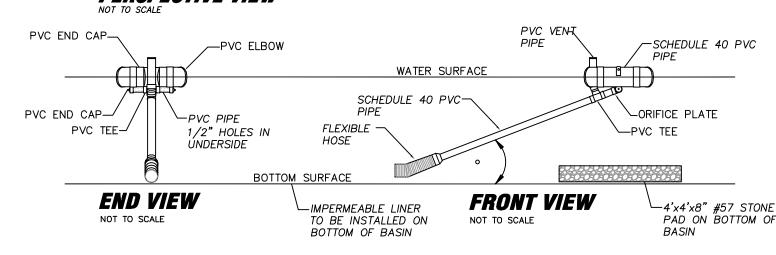


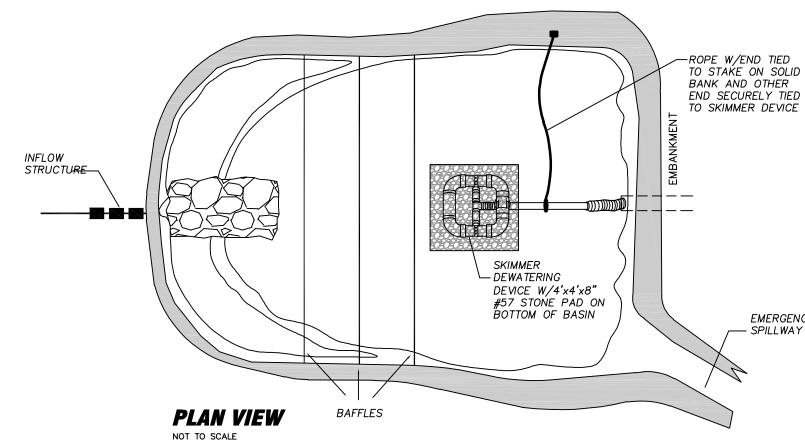
UTILITY NOTES AND DETAILS

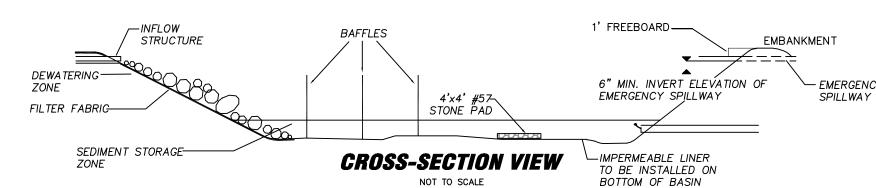
		J.
		V
REVISIO	NS	

HORZ. SCALE: VERT. SCALE: NONE

PERSPECTIVE VIEW







CONSTRUCTION SPECIFICATIONS: 1. CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED. 2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE

EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT. 3. SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OR PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE AS SHOWN. 4. PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE

5. ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED. 6. LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE.
ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE 7. EARTHEN SPILLWAYS - INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER

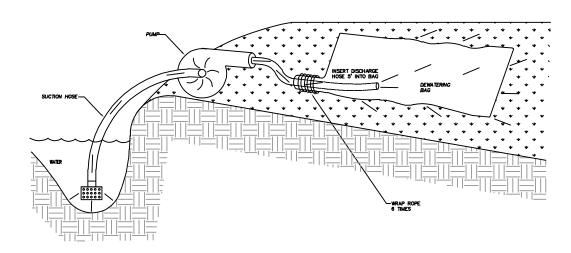
SECTION(S) SO THE WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS. 8. INLETS - DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP

9. EROSION CONTROL — CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION.

11. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY. MAINTENANCE: 1. INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL

- EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER. 2. REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND
- 3. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE
- IF IT IS CLOGGED; IF SO, REMOVE THE DEBRIS. 4. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER. 5. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER
- DEBRIS FROM THE SKIMMER AND POOL AREAS. 6. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

SKIMMER SEDIMENT BASIN



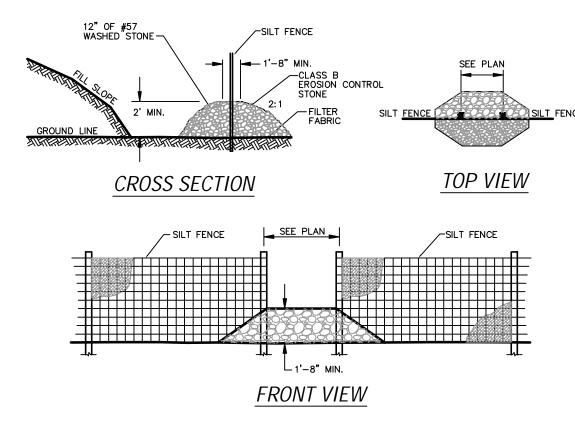
INSTALLATION AND USE:

- 1. PLACE DEWATERING BAG ON THE GROUND OR ON A TRAILER OVER A RELATIVELY LEVEL, STABILIZED AREA.
- 2. INSERT DISCHARGE PIPE A MINIMUM OF 5FT. INSIDE DEWATERING BAG AND SECURE WITH A ROPE WRAPPED 6 TIMES AROUND THE SNOUT OVER A 6 INCH WIDTH OF THE
- 3. REPLACE DEWATERING BAG WHEN HALF FULL OF SEDIMENT OR WHEN THE SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL AMOUNT.

MAINTENANCE AND DISPOSAL:

- I. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT AWAY FROM WATERWAYS OR ENVIRONMENTALLY SENSITIVE AREAS. SLIT OPEN SEDIMENT BAG AND REMOVE ACCUMULATED SEDIMENT. DISPOSE OF BAG AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY. OR; AS DIRECTED BY ENGINEER OR INSPECTOR.
- 2. INSPECT INLET BAG FOR DAMAGE AND BLOCKAGE. 3. REPLACE BAG WHEN 3/4 FULL OF SEDIMENT.

DEWATERING BAG



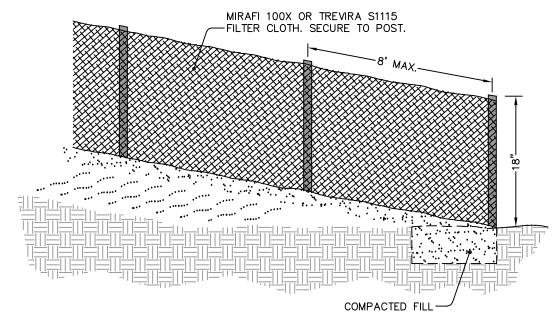
CONSTRUCTION SPECS:

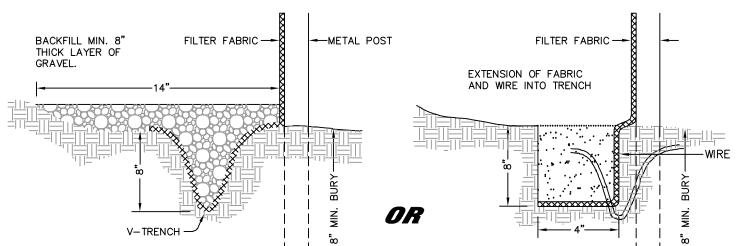
- CLEAR & GRUB THE AREA AROUND THE SILT FENCE OUTLET AND PROPERLY DISPOSE OF DEBRIS.
 PLACE GRAVEL TO THE SPECIFIC GRADE AS SHOWN

 PER THE DETAIL
- 3. PROPERLY OVERLAP STONE BEYOND EDGES OF SILT FENCE OPENING.

INSPECT OUTLETS WEEKLY AND AFTER EACH RAIN EVENT. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR AS NEEDED. CAREFULLY CHECK OUTLETS FOR FROSION AND REPAIR IMMEDIATELY ENSURE THERE IS NO SCOURING APPARENT DOWNSTREAM OF OUTLET. IMMEDIATELY STABILIZE ANY AREAS THAT NEED REPAIR.

SILT FENCE OUTLET



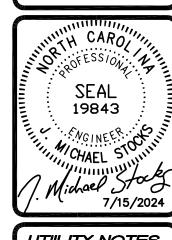


CONSTRUCTION SPECIFICATIONS:

1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. 2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE GROUND SURFACE. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE) 3. CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST. 4. SUPPORT STANDARD FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH. 5. WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A 6. EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH. 7. EXCAVATE A TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER. 8. PLACE 12 INCHES OF THE FABRIC ALONG THE BOTTOM AND SIDE OF THE 9. BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE. 10. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE



UTILITY NOTES AND DETAILS

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REVISI	ONS
FILE NO.	2023-072
HORZ. SCALE:	1"=50'

VERT. SCALE: NONE

...That you, being rooted and grounded in love, may have strength to comprehend with all the saints what is the breadth and length and height and depth, and to know the love of Christ that surpasses knowledge, that you may be filled with all the fullness of God. - Ephesians 3:18-19

BLN=C-1874

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated TLity having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated TLity having jurisdiction.

SECTION E: GROUND STABILIZATION			
Required Ground Stabilization Timeframes			
Site Area Description		Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b)	High Quality Water (HQW) Zones	7	None
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e)	Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

Temporary Stabilization	Permanent Stabilization
 Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	 Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- 1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- 2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- 3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved* PAMS/Flocculants and in accordance with the manufacturer's instructions.
- 4. Provide ponding area for containment of treated Stormwater before discharging
- 5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- 5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- 6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- 2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- 3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- 5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- 6. Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- 9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- 2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

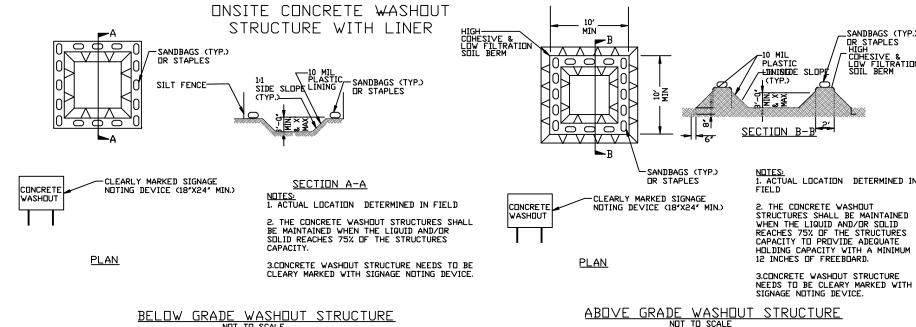
PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- 2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- 3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- 1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- 2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

ooted and grounded in love, may have strength to comprehend with all the saints what is the breadth and length and height and depth, and to know the love of Christ that surpasses knowledge, that you may be filled with all the fullness of God. — Ephesians 3:18—19



ABOVE GRADE WASHOUT STRUCTURE

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- 2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- 3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- . Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval TLity for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- 5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- 6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving TLity.
- 8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- 9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- 10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- 1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- 2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- 3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- 4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- 2. Place hazardous waste containers under cover or in secondary containment.
- 3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

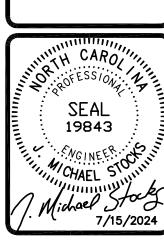
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 4/01/19



BLN=C-1874

TARBORO, EDGECOMBE 0



UTILITY NOTES AND DETAILS

REVISIONS

HORZ. SCALE: VERT. SCALE: NONE

D-03

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend of holiday periods, and no individual-day rainfall information if available, record the cumulative rain measurement for those un attended days (and this will determine if a site inspection if needed). Days on which no rainfall occurred shall be recorded a "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	 Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	 Identification of the discharge outfalls inspected, Date and time of the inspection, Name of the person performing the inspection, Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, Indication of visible sediment leaving the site, Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per / calendar days and within 24 hours of a rain event \geq 1.0 inch in 24 hours	 If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	 The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

CERTIFICATION BY THE DEPARTMENT OF DEVELOPMENT SERVICES THAT THIS CONSTRUCTION PLAT WAS APPROVED BY THE CITY PLANNING BOARD ON _____ DAY OF _____, 20____

DIRECTOR OF DEVELOPMENT SERVICES

CERTIFICATION BY THE CITY ENGINEERING DEPARTMENT THAT THIS CONSTRUCTION PLAT AND REQUIRED IMPROVEMENT DRAWINGS MEET THE APPROPRIATE CITY STANDARDS

DIRECTOR OF ENGINEERING

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- (a) The E&SC plan TLity has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan TLity has approved these items,
- (b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit
- (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

- 2. Additional Documentation to be Kept on Site In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- 3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

- 1. Occurrences that Must be Reported
- Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume)
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.
- 2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence (a) Visible sediment deposition in a stream or wetland

Reporting Timeframes (After Discovery) and Other Requirements

Within 24 hours, an oral or electronic notification.

Within 7 calendar days, a report that contains a description of the

- segiment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.
- If the stream is named on the <u>NC 303(d) list</u> as impaired for sediment. related causes, the permittee may be required to perform additional. monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance. with the federal or state impaired-waters conditions.

(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above.

• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.

(c) Anticipated bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR

- A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the articipated quality and effect of the bypass.
- Within 24 hours, an oral or electronic notification.
- 122.41(m)(3)with the conditions of this permit that may endanger health or the

environment[40]

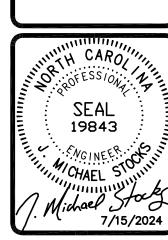
CFR 122.41(l)(7)]

- Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. (e) Noncompliance • Within 24 hours, an oral or electronic notification.
 - Within 7 calendar days, a report that contains a description of the
 - noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6).
 - Division staff may waive the requirement for a written report or a case-by-case basis.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 4/01/19





UTILITY NOTES AND DETAILS

REVISIONS

HORZ. SCALE: VERT. SCALE: NONE

D-04

Asphalt Paving

 The Contractor or Subcontractor performing the paving operation will be responsible for performing the following:

A Surface Tolerance

Surface tolerance requirements for smoothness must be checked in the presence of an Inspector using a "Rolling Straightedge" for checking surface tolerance. A variation of more than 1/8" in 10 feet will be considered unacceptable and must be corrected in an acceptable manner which will also meet Item (Bland H) below

B Surface Texture

Care shall be taken to insure that a smooth dense texture is achieved with no segregation, tearing, cracking, etc. Areas discovered which are not uniform in appearance and texture shall be reheated and rerolled, replaced, or if required, by the Engineer resurfaced at no additional cost to the Owner. Seams shall be straight, true, and smooth.

C. Plant Tickets

To verify depth for payment, plant tickets shall be submitted to the Engineer.

No payment for paving will be made until the surface texture and smoothness has been inspected, satisfactorily repaired, if necessary, and approved by the Engineer and the Owner.

E Paving Subcontractors

The General Contractor in charge of the Paving Contractor shall be responsible for assuring that his paving Contractor has read these requirements if paving is to be subcontracted. Failure to inform a Subcontractor does not relieve the Prime Contractor of these requirements.

F. Paving Condition

No paving of asphalt shall take place until the Utility Contractor and the Paving Contractor have mutually agreed that all valve boxes and manholes have been set to finished grade and that it is the Paving Contractor's responsibility to make minor adjustments prior to paving, as applicable.

G.Asphalt Specifications

Asphalt and CABC shall meet the NCDOT "Standard Specifications for Roads and Structures", latest revision. Asphalt mix and placement shall meet Division 6 of the State Specifications. CABC shall meet Section 520 of the State Specifications and graded in accordance with Table 520-1. Placement and compaction shall meet Section 520.

H. Asphalt Patching

Asphalt Patching WILL NOT BE ALLOWED. In the event that Asphalt is unsat sfactory to Engineer, the contractor shall mill entire section of asphalt and resurface a minimum depth of one and one-half inch and at minimum length of one hundred feet for the entire width of section in question. This area is to be determined by field inspection with the contractor and/or sub-contractor and the Engineer present.

2. All asphalt prices in this proposal shall be based on the NCDOT June, 2018. Monthly Terminal F.O.B. Asphalt Binder Price at time of bid. If the asphalt cement price fluctuates from this stated price at any time during the performance of the asphalt scope, the contractor will adjust the asphalt prices in accordance with the newly published NCDOT Monthly Terminal F.O.B. Asphalt Binder Prices. These prices are located at the following

https://connect.nccot.gov/projects/construction/Lists/Monthly%20Terminal%20Asphalt%20Binder%20%20Fuel%20 FOB%20Prices/AllItems.aspx

Concrete Notes

- All construction, placing, pouring and curing concrete is to conform to the latest edition of ACI 318.
- All reinforcing steel is to be cold out and bent.
- 3. Port and coment concrete shall have a minimum 28 day compressive strength of 3,000 PSI, a nonv brated slump between 2.5 and 4 inches, a minimum coment content of 545 pounds per cubic yard. an air entrainment of 5-7-percent and a maximum water-cement ratio of 0.545 in accordance with Class Biconcrete as described in the NCDCT "Standard Specifications for Roads and Structures." unless otherwise specified.
- Do not use chloride in any concrete which has reinforcing steel or wire fabric. 5. Reinforcing steet shall meet ASTM A-615, Grade 60. Welded wire fabric shall meet ASTM A-185.
- Tie wire shall conform to ASTM A-82. 6. Lab welded wire fabric a minimum of one mesh. Lap all bars a minimum of 24°. Alternate adjacent
- bar splices a minimum of 48" Use only approved chairs with sand plates to support reinforcing on grade.
- 8. All crossings of reinforcement are to be tied. Supports for reinforcing to hold bars against
- movement during pour and finish operation. Supports for reinforcing bars to be a minimum of 48 inches apart. 9. Concrete shall be only plant-mixed, transit-mixed or ready-mixed concrete. The time elapsing from mixing to alacing the concrete shall not exceed ninety (90) minutes.
- 10 Concrete shall not be deposited on frozen subgrade and shall not be poured when the air temperature for the succeeding 24-hour period is less than 32 degrees F.
- 11. All concrete when placed in forms shall have a temperature between 50 degrees F and 90 degrees. Fland shall be maintained at a temperature of not less than 50 degrees for at least 72 hours for normal concrete and 24 hours for high early strength concrete. 12 Do not place fresh concrete during summer on a dry subgrade. Moisten subgrade before blacing
- 13 Supgrade is to be firm, free of water and/or sill and undisturbed or compacted properly. Consult.
- Engineer if soft or yielding subgrade is encountered for improvement directions. If ground water is entering subgrade, consult Engineer for instructions. 14 Areas of concrete to be removed shall be saw out before removing. The saw out shall provide a
- smooth, straight edge approximately two (2) inches deep before breaking away the adjacent.
- 15. Immediately after the forms have been removed and all honeycombed areas are repaired, backfill to prevent underwash.
- 16 Brooming of the concrete surface shall be done transverse to the direction of traffic for all pedestrian. 1/ Joint spacing shall be no less than 8-feet. Where existing sidewalks are being widehed. Iransverse
- joints and I be located so as to line up with existing joints in the adjacent existing sidewalk. Grooved joints shall not be sealed. 18 Concrete Sub shall be responsible for all score joints and expansion joints. A proliminary score joint
- pattern and expansion joint pattern shall be submitted to the project engineer for review prior to pouring concrete. 19 Expansion joints shall be one-half (1/2) inch in width and shall be placed between all rigid objects at
- ad slance of no more than thirty (30) feel abart and shall extend the full depth of the concrete with the top of the filler one-half (1/2) inch below the finished surface. Expansion Joints shall be sea ed. 20. The edges of the curb/sidewalk shall be finished with an approved edging tool one-half (1/2) inch radius, upints shall be similarly finished immediately after templates have been removed.
- 2* Saw control joints as soon as fresh concrete will retain coarse aggregate against the sawing action. -22 Comractor SHALL NOT POUR any concrete before forms are inspected by the project engineer. and/or the architect. Any concrete that has not been approved by the engineer and/or owner will be
- the responsibility of the contractor. 23 All cracked concrete shall be removed and re-poured. Owner will not accept new cracked concrete.

Demolition Notes

- 1. The Engineer does not guarantee the accuracy of the location of above and below ground utilities. shown on this plan. It will be the sole responsibility of the contractor to have all utilities located prior i to beginning construction activities and to provide any temporary utilities needed to maintain the puildings, sidewalks, parking lots, or other facilities either not being demolished or not being demolished in the particular phase of construction. Any discrepancies between this plan and actual field conditions shall be brought to the engineers attention immediately.
- 2. Contractor is responsible for the removal and/or relocation of all above and below ground utilities. within the work area, including but not limited to, gas, sewer, water, fiber optic, storm drain, roof. drains, telephone, cable irrigation, oxygen etc.
- Contractor shall coordinate with the appropriate utility authorities prior to commencement of any demolition activities
- 4. Building, sidewalks, parking lots, and other facilities not being shown as being demolished in this. phase shall remain open and operational. Any temporary utilities needed to maintain these facilities shall be the sole responsibility of the contractor.
- Contractor shall remove all vegetation and landscaping located within the work area and any items. shown on the demolition plan outside of the work area.
- 6 Any damage to facilities shown to remain open and operational shall be repaired as directed by the architect/engineer immediately.
- 7. All items shown as dark items on these plans are to be removed and/or relocated. Other items shown lighter in color to remain unless otherwise indicated. Contractor to field verify all items needing to be removed and/or relocated prior to bid. Any item needing to be removed and/or relocated to facilitate the proposed building or to maintain the buildings shown to remain in operation. are the responsibility of the contractor.
- The contractor shall coordinate for the quick removal of all demolished debris. Stockpiling for more. than 2 days, onsite burning, or our al will not be allowed.
- -9 Contractor shall be responsible for securely fending the work area from pedestrian or vehicular. access prior to beginning demolition activities
- 10. Contractor to verify and obtain demolition permits from the approving authority as required. -11 All demolition debris shall be disposed of in an approved landfill location.
- 12. All sidewalks and asphalt to be demolished where portions will be left for further use shall be sawout. to leave a straight edge.

Parking, Street or Building Subgrade Preparation

A. Subgrade on Precompacted Original Soil

- 1. Remove all the topsoil and all questionable organic soil and extend a minimum of four (4) feet beyond the outside edge of the pavement.
- 2. Precompact the exposed grade with a vibratory roller weighing a minimum of ten (10) tons (static load) or equal to stabilize the initial settlement of the top strata of the soil. The stability of the subgrade will be considered adequate when the total settlement after the last four (4) complete passes by the vibratory roller does not exceed 1/8". Any area that settles excessively and fails to stabilize under continued rolling should be further undercut and replaced with properly compacted select granular fill.

B. Subgrade on Certified Compacted Fill

- 1. Prepare the site following the same procedures as outlined in Items 1 and 2 above
- Using the same compaction equipment as outlined above, compact new fill soil in +/-8-inch layers to a minimum 98-percent of the maximum dry density at its optimum moisture content in accordance. with the Standard Proctor Method, ASTM Standard D 698-78 and field controlled in accordance with ASTM Standard D 2167-84, or equal. The top one (1) foot of the prepared fill subgrade should be compacted to 100 percent of the maximum dry density using the Standard Proctor Method.
- 3. The end of the fill should be terminated at the minimum slope of two (2) horizontal to one (1) vertical measured from three (3) feet beyond the outside edge of the pavement to the toe of the fill. The fill soil is to be select granular soil weighing a minimum of 110 pcf at its optimum moisture content.

Testing

Concrete Testing Requirements

The initial test (from first ready-mix truck) is to be taken after the second vard is dispatched from the mixer and is to consist of the following:

One slump test

2. Pull, prepare and store 3 cylinders on-site for 24 hours. Temperature

After the above tests are pulled from the initial truck, every 5th truck thereafter is to be tested in the same manner as noted above.

Asphalt Testing Requirements

Compaction: Testing for asphalt density is to follow NCDOT "Standard Specifications for Roads and Structures", Section 609-9, "Field Compaction Quality Management," latest revision. <u>Thickness:</u> The minimum frequency of coring for thickness testing shall be on the basis of test sections consisting of not more than 1500 linear feet of lay down width, exclusive of intersections and irregular areas or 15,000 S.F. The test sample is to be a 6-inch cored sample. The sample is to be numbered and logged for identification purposes.

Contractor's Quality Control System:

Follow NCDOT "Standard Specifications for Roads and Structures", Section 609-5, "Contractor's Quality Control System," latest revision:

<u>Mixture and Job Mix Formula Adjustments:</u>

Follow NCDOT "Standard Specifications for Roads and Structures", Section 609-4. "Field Verification of Mixture and Job Mix Formula Adjustments", latest revision. General: All other applicable sections of Section 609 of the NCDOT "Standard Specifications for Roads and Structures" shall apply relating to Quality Control Plan, mix design, control limits, corrective action, equipment and measurement.

Testing Cost:

Project Owner is responsible for cost of testing.



BLN=C-1874

SITE NOTES AND WATER DETAILS

REVISIONS

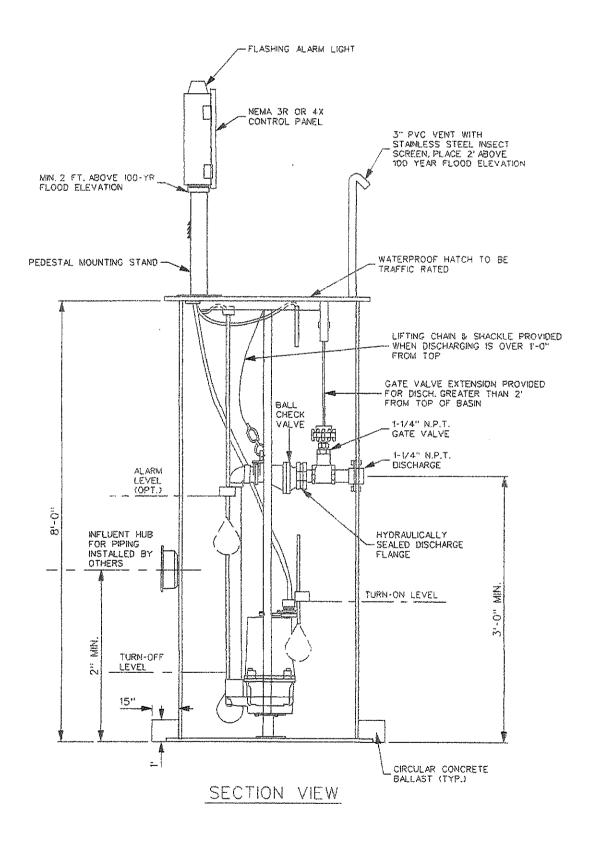
FILE NO. 2023-076

VERT. SCALE: NONE

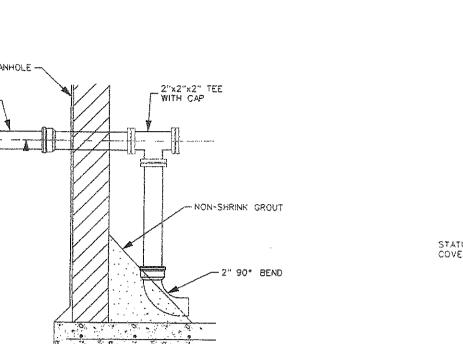
HORZ. SCALE:

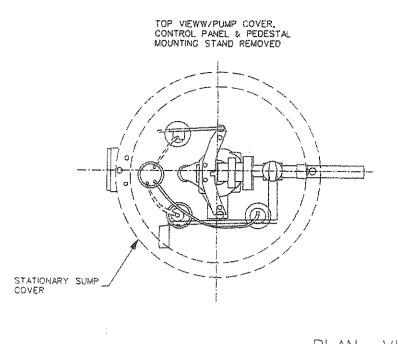
PUMP NOTES: THE PUMP SHALL BE A KEEN PUMP MODEL KGX2-2301SL, 2-HORSEPOWER, 3450-RPM 230-VOLT, 1 PHASE, 60-HERTZ, SUBMERSIBLE, EXPLOSION PROOF GRINDER PUMP WITH 30 FOOT CORD. FLA=15.5 AMPS @ 230VAC. IMPELLER DIAMETER SHALL BE 5.35 INCH.

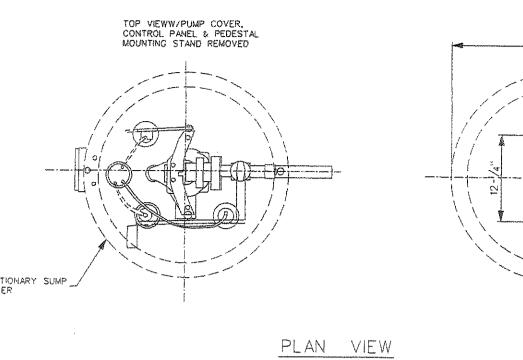
SIMPLEX FIBERGLASS INSTALLATION 1 WITH PEDESTAL MOUNTED PANEL
C.4.2 NOT TO SCALE



5 FORCEMAIN DISCHARGE C.4.2 NOT TO SCALE







BLN=C-1874

MBE COUNT TARBORO.

EDGECOMBE (TOWN OF TARE

SEWER PUMP DETAILS

REVISIONS

FILE NO. 2023-072

HORZ. SCALE: 1"=50'
VERT. SCALE: NONE