

Location Map
SCALE: 1" = 500'

Site Data

TOTAL ACREAGE IN SITE:	8.50 AC.
TAX PARCEL NUMBER:	81375
CURRENT ZONING:	RA (RURAL AGRICULTURAL)
ACREAGE IN COMMON AREA:	0
ACREAGE IN RECREATION AREA(S) AND THE LIKE:	0
TOTAL NUMBER OF UNITS / BEDROOMS:	N/A
GROSS FLOOR AREA:	1,296 S.F.
BUILDING LOT COVERAGE:	0% EXIST., 0.35% PROPOSED
BUILDING HEIGHT IN FT. & STORIES:	15'
TOTAL NO. OF PARKING SPACES REQUIRED:	N/A
TOTAL NO. OF PROPOSED PARKING SPACES:	N/A
TOTAL SQ. FEET OF EXIST. IMPERVIOUS AREA:	0 SF
TOTAL SQ. FEET OF PROP. IMPERVIOUS AREA:	152,683 SF
IMPERVIOUS AREA FOR PARKING:	N/A
DISTURBED ACREAGE:	8.5 AC.
REFERENCES:	DEED BOOK 3027, PAGE 750

General Notes:

- NCDOT DRIVEWAY APPROVAL PERMIT REQUIRED.
- ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE PITT COUNTY ZONING ORDINANCE.
- CONTRACTOR SHALL NOTIFY NCDOT 48 HOURS PRIOR TO PERFORMING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- THIS PROPERTY IS LOCATED IN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON FIRM MAP NUMBER 3720560400J, EFFECTIVE DATE OF JANUARY 2, 2004.
- NO SEWER SERVICE OR SEPTIC SYSTEM WILL BE REQUIRED FOR THE INTENDED USE OF THIS LOT.
- WATER SERVICE TO BE PROVIDED BY EASTERN PINES WATER CORPORATION.
- ELECTRIC SERVICE TO BE PROVIDED BY GREENVILLE UTILITIES COMMISSION.
- THIS PROPERTY IS LOCATED WITHIN THE BLACKJACK FIRE DISTRICT WITH THE NEAREST FIRE HYDRANT BEING APPROXIMATELY 433' FROM THE SITE AND THE NEAREST FIRE DEPARTMENT BEING LOCATED APPROXIMATELY 4 MILES FROM THE SITE.
- THIS PROPERTY HAS BEEN REVIEWED BY THE PITT COUNTY PLANNING DEPARTMENT FOR APPLICABILITY TO THE TAR-PAMLICO REPARIAN AREA PROTECTION RULES AND IT WAS DETERMINED THAT THE DITCHES LOCATED HEREON ARE EXEMPT FROM THE TAR-PAMLICO BUFFER RULES; REFER TO PITT COUNTY PLANNING DEPARTMENT PROJECT NO. PC 12-004.
- STORMWATER MANAGEMENT IS REQUIRED FOR THIS SITE AND SHALL MEET THE REQUIREMENTS OF THE PITT COUNTY STORMWATER MANAGEMENT ORDINANCE.
- THIS SITE DISTURBS MORE THAN 1 ACRE. EROSION CONTROL PLAN APPROVAL IS REQUIRED.
- BOUNDARY INFORMATION TAKEN FROM A SURVEY PREPARED BY SPRULL & ASSOCIATES, INC. ENTITLED FINAL PLAT GREENVILLE UTILITIES COMMISSION, GREENVILLE 230KV SOUTH SUBSTATION, DATED April 23, 2014.
- WATER METER SHALL BE INSTALLED BY EASTERN PINES WATER CORPORATION UPON APPLICATION AND PAYMENT OF FEES BY SITE CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL COORDINATE BETWEEN THE SITE PLAN AND THE ELECTRICAL LAYOUT PLAN FOR SUBSTATION LAYOUT.

Owner/Developer

City of Greenville for the use and benefit of Greenville Utilities Commission

REFERENCES

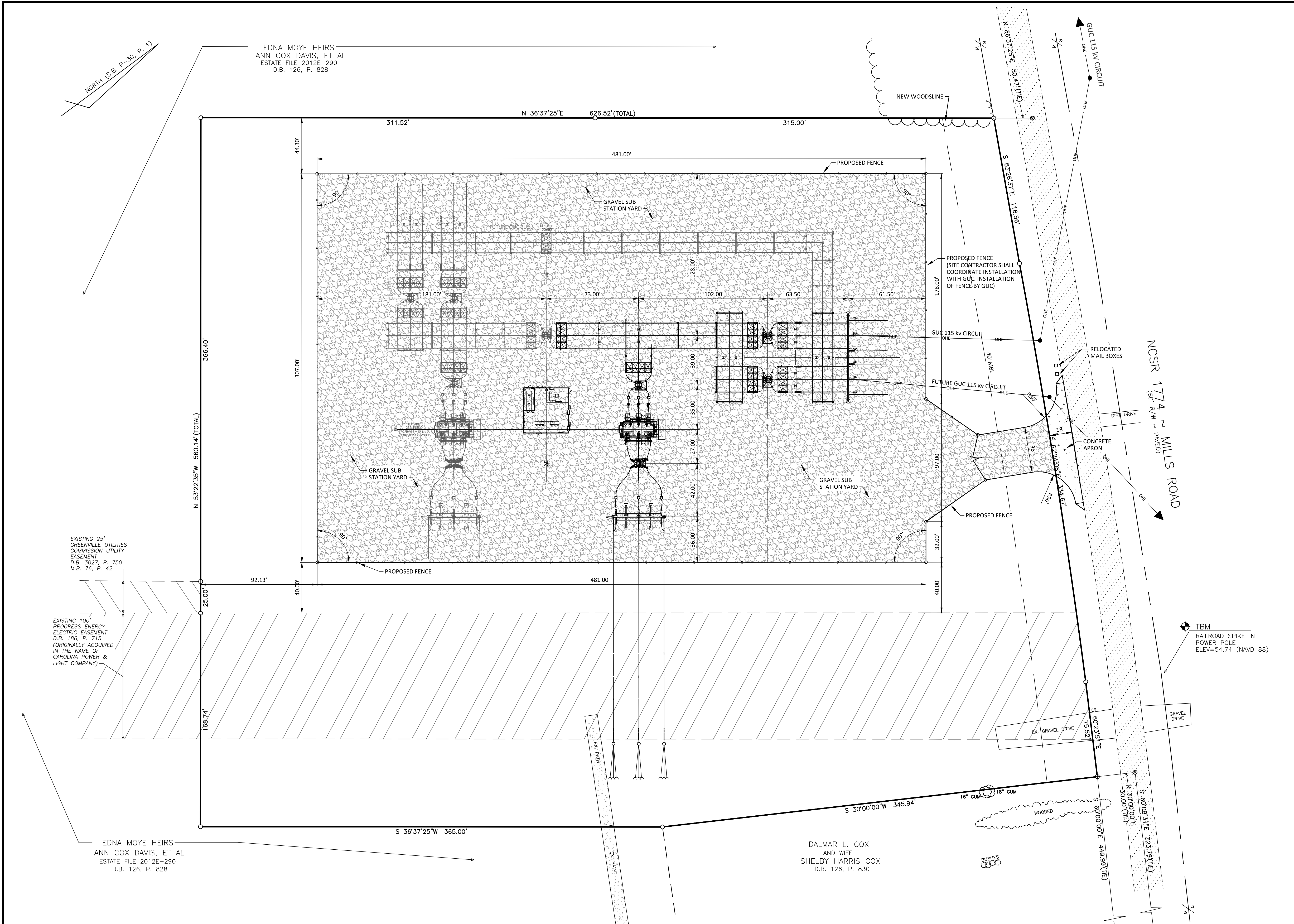
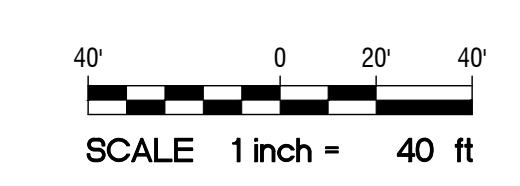
D.B. 3027, P. 750
D.B. 186, P. 15
M.B. 76, P. 42
PITT COUNTY REGISTRY

Survey Note:

BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON WAS PREPARED BY SPRULL AND ASSOCIATES, INC., AS SHOWN ON DRAWING ENTITLED TOPOGRAPHIC SURVEY FOR GREENVILLE UTILITIES COMMISSION, DATED MAY 13, 2014, ATTACHED TO THIS DRAWING SET FOR REFERENCE.

Sheet Index:

Sheet No. C-1	Site Layout & Landscape Plan
Sheet No. C-2	Demolition Plan
Sheet No. C-3	Erosion Control Plan
Sheet No. C-4	Grading & Drainage Plan
Sheet No. C-5	Details
Survey (1 Sheet)	Sprull and Associates, Inc.



Lawn Seeding & Landscape Notes:

- ALL FINISHED LAWN AREAS TO RECEIVE PERMANENT SEED.
- AREAS TO RECEIVE SEED SHALL BE CLEAN OF DEBRIS AND FREE OF WEEDS.
- SEED MIX TO BE AS SHOWN IN THE PERMANENT SEEDING SCHEDULE ON PLAN SHEET C-4.
- STRAW FOR ANCHORING PERMANENT SEEDING SHALL BE THRESHED STRAW OF HAY, OATS, WHEAT, BARLEY, OR RYE. SPREAD AT A RATE OF 2 1/2 TONS PER ACRE. STRAW, NETTING, AND OTHER ANTI-EROSION MATERIALS TO BE REMOVED AFTER ESTABLISHED LAWN.
- MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER SEEDING. WATER REGULARLY TO KEEP LAWN AREAS MOIST TO MAXIMIZE GERMINATION AND MAINTAIN OPTIMUM GROWTH AND SURVIVAL TO ACHIEVE AN ACCEPTABLE STAND OF ESTABLISHED LAWN, FREE OF ERODED OR BARE AREAS.
- PRIOR TO FINAL ACCEPTANCE OF THE SITE BY GREENVILLE UTILITIES COMMISSION, THE SITE SHALL BE CLEAN OF ALL DEBRIS AND TRASH.

LEGEND

EXISTING	PROPOSED
⊗ EXISTING RAILROAD SPIKE	— SF —
○ EXISTING IRON PIPE	— FENCE —
○ EXISTING P.K. NAIL	— TRELISE —
⊗ EXISTING IRON BAR	— OHE —
— U — OVERHEAD UTILITY LINE	— LOD —
⊕ POWER POLE	NG × 170.00
R/W RIGHT OF WAY	TG × 170.00
51.2' EXISTING SPOT ELEVATION	— 50 —
— 1 — BORE LOCATION	— 50 —
SHWT-1 SEASONAL HIGH WATER	— 50 —
TABLE BORE LOCATION	— 50 —
SILT FENCE	— 50 —
FENCE	— 50 —
TRELISE	— 50 —
OVERHEAD ELECTRIC	— 50 —
STORM DRAIN PIPE	— 50 —
LIMITS OF DISTURBANCE	— 50 —
NATURAL GROUND	— 50 —
TOP OF GRAVEL	— 50 —
GRAVEL	— 50 —
ROCK DAM	— 50 —

COMMENTS: REVISED PER NCDOT TO ADD 10' 3" DRIVEWAY PIPE

DATE: 12-22-16

REVISIONS:

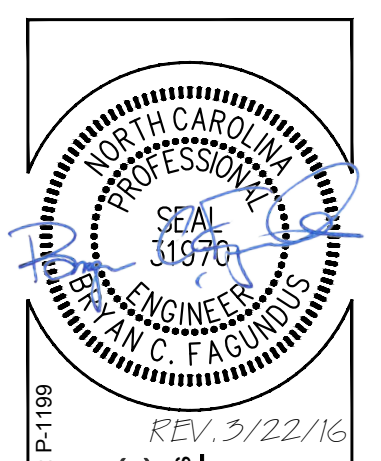


SITE LAYOUT & LANDSCAPE PLAN

GREENVILLE UTILITIES COMMISSION

Greenville 230 kv South Substation

Chicod Township, Pitt County, North Carolina



NC License: P-1189

ARK Consulting Group, PLLC
Engineers & Planners

3280 Charles Blvd. | Suite B
Greenville, NC 27858
(252) 356-0688
www.arkconsultinggroup.com

Project Manager:	BCF
Drawn By:	EW
Checked By:	STA
Project Number:	14008
Drawing Number:	D-1025

C-1

Date: 03-14-2016

Demolition Notes:

- CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE-CALL CENTER (NC 811) BY DIALING 811 AT LEAST 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY, EXCAVATING OR TRENCHING TO HAVE EXISTING UNDERGROUND UTILITIES LOCATED.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- ALL DEMOLITION WASTE AND DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED.
- ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE NCDOT STANDARDS, AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH THE LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL REMOVE EXISTING VEGETATION AND IMPROVEMENTS WITHIN LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
- TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.
- DITCHES INDICATED TO BE FILLED SHALL BE MUCKED OUT AT LEAST ONE FOOT BELOW EXISTING GRADE AND BACKFILLED WITH SELECT BACKFILL. BACKFILL SHALL BE PLACED IN LIFTS NO THICKER THAN 9" IN LOOSE THICKNESS AND COMPACTED TO 98% OF ASTM D698 TO A DEPTH OF 24" BELOW FINISHED GRADE AND TO 95% OF ASTM D698 BELOW 24" DEPTHS.

DATE	COMMENTS
1/22/16	REVISED PER NCDOT TO ADD UP TO 3" DRAINWAY PIPE

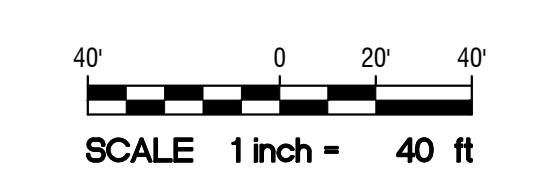


DEMOLITION PLAN

GREENVILLE UTILITIES COMMISSION
Greenville 230 kV South Substation
Chicod Township, Pitt County, North Carolina

LEGEND

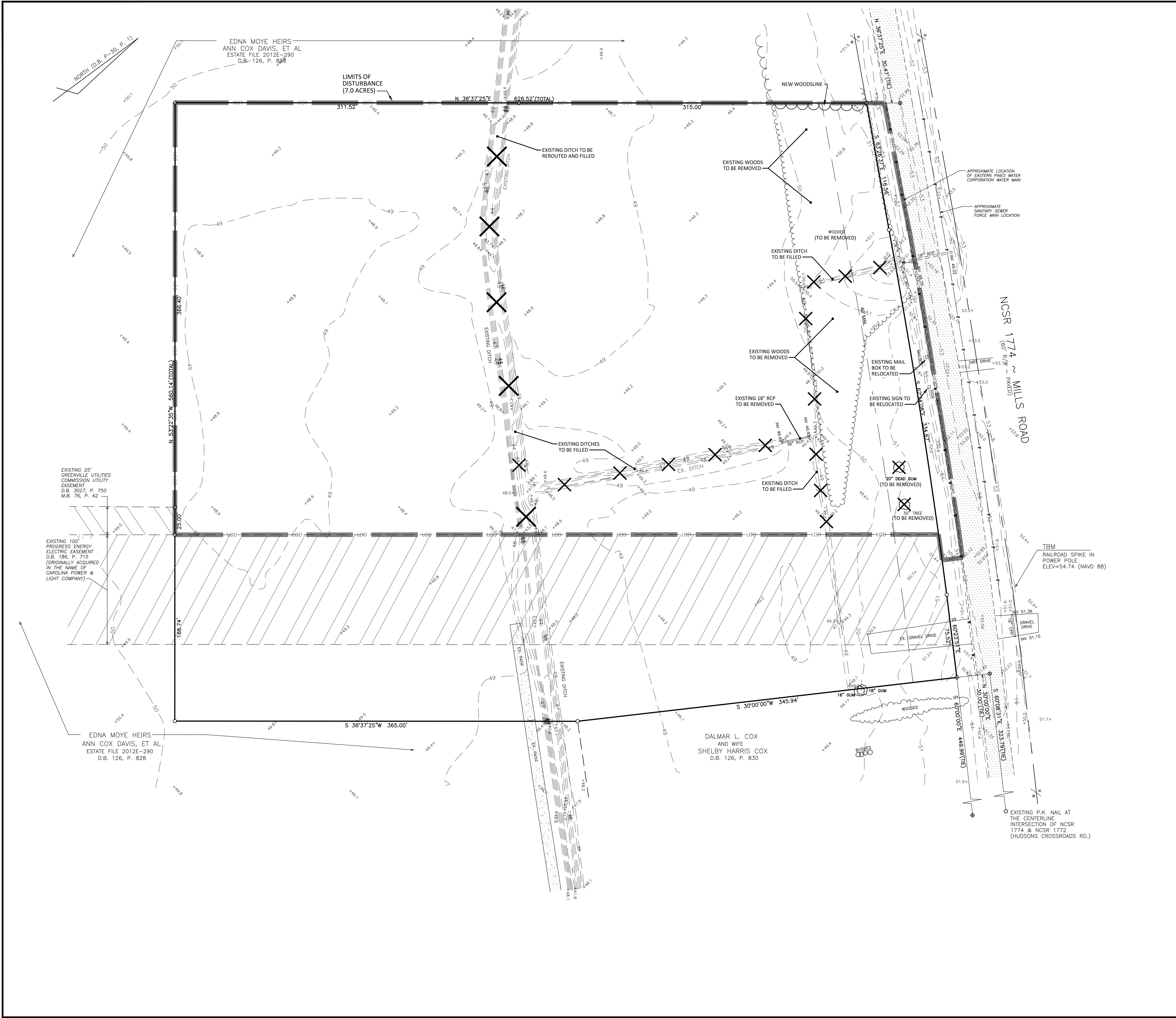
EXISTING	PROPOSED
⊙	EXISTING RAILROAD SPIKE
○	EXISTING IRON PIPE
●	EXISTING P.K. NAIL
⊕	EXISTING IRON BAR
—	OVERHEAD UTILITY LINE
PP	POWER POLE
R/W	RIGHT OF WAY
51.2x	EXISTING SPOT ELEVATION
CONTOUR	CONTOUR
B-1	BORE LOCATION
SHWT-1	SEASONAL HIGH WATER
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	SILT FENCE
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	LIMITS OF DISTURBANCE
	NATURAL GROUND
	TOP OF GRAVEL
	GRAVEL
	ROCK DAM
	TREE REMOVAL
	LIMITS OF DISTURBANCE



REV. 5/22/16

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Engineers & Planners
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Greenville, NC 27856
(252) 356-0688
www.arkconsultinggroup.com

Project Manager:	BCF
Drawn By:	EW
Checked By:	STA
Project Number:	14008
Drawing Number:	D-1025



EDNA MOYE HEIRS
ANN COX DAVIS, ET AL
ESTATE FILE 2012E-290
D.B. 126, P. 628

EXISTING 25" GREENVILLE UTILITIES COMMISSION UTILITY EASEMENT D.B. 3027, P. 750 M.B. 76, P. 42

EXISTING 100' PROGRESS ENERGY ELECTRIC EASEMENT D.B. 186, P. 715 (ORIGINALLY ACQUIRED IN THE NAME OF CAROLINA POWER & LIGHT COMPANY)

EDNA MOYE HEIRS
ANN COX DAVIS, ET AL
ESTATE FILE 2012E-290
D.B. 126, P. 628

DALMAR L. COX
AND WIFE
SHELBY HARRIS COX
D.B. 126, P. 830

EXISTING P.K. NAIL AT THE CENTERLINE INTERSECTION OF NCSR 1774 & NCSR 1772 (HUDSONS CROSSROADS RD.)

EROSION CONTROL MEASURES

- All work will be done in accordance with the Erosion and Sedimentation Control Act of 1973 and the requirements of the NC Department of Environmental Quality. No land disturbing activity beyond that required to install the appropriate erosion control measures may proceed until measures are inspected and approved by the Owner or Engineer.
- Prior to beginning site clearing, temporary silt fence and the temporary gravel construction entrance shall be installed as shown on the drawings. The ditch relocation, temporary sediment traps and skimmer basin shall be complete prior to stripping topsoil or importing offsite fill.
- The transformer yard shall have stone placed for stabilization and all other disturbed areas shall be seeded to stabilize the soil. Seed bed preparation shall be conducted according to North Carolina Department of Transportation Standard Specifications for Roads and Structures (D.O.T.). The ground surface shall be cleared of stumps, stones, roots, cables, wire, grade stakes, and other materials that might hinder proper grading, tillage, seeding or subsequent maintenance operations. Grades on the area to be seeded shall be maintained in a true and even condition. Maintenance shall include any necessary repairs to previously graded areas. All graded areas shall be thoroughly graded to a depth of at least four (4) inches by plowing, disking, harrowing, or other approved methods until the condition of the soil is acceptable. On sites where soil conditions are such that high clay content and excessive compaction cause difficulty in getting clods and lumps effectively pulverized, the Contractor shall use the rotary tillage machinery until the mixing of the soil is acceptable and no clods or clumps remain larger than 1 1/2 inches in diameter. A firm and compact seed bed is required after being graded, the seed bed shall be lightly compacted with a land roller, such as a cultipacker, before and after seeding. Limestone shall be dolomitic agriculture ground limestone containing not less than 10 percent magnesium oxide. Lime shall be uniformly applied at the rate of 2 tons per acre. Fertilizer shall be uniformly applied at a rate of 500 pounds per acre of 10-20-20 analysis. The fertilizer shall be incorporated into the upper three or four inches of prepared seed bed just prior to the last tillage operation, but in no case shall it be applied more than three days prior to seeding. Fertilizer shall be used immediately after delivery or stored in a manner that will not permit it to harden or destroy its effectiveness.

When hydroseeding equipment is used for seeding, fertilizer shall be applied simultaneously with seed, using the above rates of application. Seed shall be certified seed or equivalent based on North Carolina Seed Improvement Association requirements for certification. All seed shall be furnished in sealed standard containers. Seed which has become wet, moldy, or otherwise damaged prior to seeding will not be acceptable. Seeding shall be accomplished with hand planters, power-drawn planters, hand packers, or hydroseeding equipment at the rates prescribed in the Permanent Seeding Schedule at left:

PERMANENT SEEDING SCHEDULE (ENTIRE SITE):

Seed Bed Preparation

- Lime - 2 tons per acre
- Fertilizer (10-20-20) - 500 pounds per acre

Seeding Mixture:
(January 1 - March 31)

- Common Bermuda grass (unhulled) - 20 pounds per acre
- Rye (grass) - 25 pounds per acre

(April 1 - July 31)

- Common bermudagrass (hulled) - 15 pounds per acre
- Weeping Lovegrass - 5 pounds per acre
- Centipede - 8 pounds per acre

(August 1 - December 31)

- Common Bermuda grass (unhulled) - 20 pounds per acre
- Tall Fescue - 60 pounds per acre
- Rye (grass) - 25 pounds per acre

Seed Bed Protection:

- Straw Mulch - 2 tons per acre (visual)
- Asphalt Tack - 0.03 gallons per square yard

- Soil stabilization shall be achieved on any area of a site where land-disturbing activities have temporarily or permanently ceased according to the following schedule:
 - All perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1) shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 7 calendar days from the last land-disturbing activity.
 - All other disturbed areas shall be provided temporary or permanent stabilization with ground cover as soon as practicable but in any event within 14 calendar days from the last land-disturbing activity.
 - Conditions - In meeting the stabilization requirements above, the following conditions or exemptions shall apply:
 - Extensions of time may be approved by the permitting authority based on weather or other site-specific conditions that make compliance impracticable.
 - All slopes 50' in length or greater shall apply the ground cover within 7 days except when the slope is flatter than 4:1.
 - Slopes less than 50' shall apply ground cover within 14 days except when slopes are steeper than 3:1, the 7-day requirement applies.
 - Any sloped area flatter than 4:1 shall be exempt from the 7-day ground cover requirement.
 - Slopes 10' or less in length shall be exempt from the 7-day ground cover requirement except when the slope is steeper than 2:1.
 - Although stabilization is usually specified as ground cover, other methods, such as chemical stabilization, may be allowed on a case-by-case basis.
 - For portions of projects within one mile and draining to trout waters and High Quality Waters as classified by the Environmental Management Commission, stabilization with ground cover shall be achieved as soon as practicable but in any event on all areas of the site within 7 calendar days from the last land-disturbing act.
 - For portions of projects located in Outstanding Resource Waters watersheds as classified by the Environmental Management Commission, stabilization with ground cover shall be achieved as soon as practicable but in any event on all areas within 7 calendar days from the last land-disturbing act.
 - Portions of a site that are lower in elevation than adjacent discharge locations and are not expected to discharge during construction may be exempt from the temporary ground cover requirements if identified on the approved E&SC plan or added by the permitting authority.

- Self Inspection and Reporting Requirements (Per NCG10000)

Minimum self inspection and reporting requirements are as follows unless otherwise approved in writing by the Division of Water Quality.

 - A rain gauge shall be maintained in good working order on the site unless another rain monitoring device has been approved by the permitting authority.
 - A written record of the daily rainfall amounts shall be retained and all records shall be made available to DWQ or authorized agent upon request (Note: if no rainfall occurred, the permittee must record zero).
 - Erosion and sedimentation control measures shall be inspected to ensure that they are operating correctly. Inspection records must be maintained for each inspection event and for each measure. At a minimum, inspection of measures must occur at the frequency indicated below:
 - All erosion and sedimentation control measures must be inspected by or under the direction of the permittee at least once every seven calendar days, and
 - All erosion and sediment control measures must be inspected by or under the direction of the permittee within 24 hours after any storm event of greater than 0.50 inches of rain per 24 hour period.
 - Times when a determination that adverse weather conditions prevented inspections should be documented on the Inspection Record.
 - Once land disturbance has begun on the site, stormwater runoff discharge outfalls shall be inspected by observation for erosion, sedimentation and other stormwater discharge characteristics such as clarity, floating solids, and oil sheens. Inspections of the outfalls shall be made at least once every seven calendar days and within 24 hours after any storm event of greater than 0.50 inches of rain per 24 hour period.
 - Inspections are only required to be made during normal business hours. When adverse weather conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection can be delayed until it is deemed safe to perform these duties. If the inspection cannot be done on that day, it must be completed on the following business day.
 - Twenty-four Hour Reporting for visible sediment deposition:
 - The permittee shall report to the Division of Water Quality central office or the appropriate regional office any visible sediment being deposited in any stream or wetland or any noncompliance which may endanger health or the environment. (See Section IX of this permit for contact information.) Any information shall be provided orally or electronically within 24 hours from the time the permittee became aware of the circumstances. Visible discoloration or suspended solids in the effluent should be recorded on the Inspection Record as provided below.
 - A written submission shall be provided to the appropriate regional office of the DWQ within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the sediment deposition and actions taken to address the cause of the deposition. The Division of Water Quality staff may waive the requirement for a written report on a case-by-case basis.
 - Records of inspections made during the previous 30 days shall remain on the site and available for agency inspectors at all times during normal working hours, unless the permitting authority provides a site-specific exemption based on unique site conditions that make this requirement not practical. Older records must be maintained for a period of one year after project completion and made available upon request. The records must provide the details of each inspection including observations, and actions taken in accordance with this permit. The permittee shall record the required rainfall and monitoring observations on the Inspection Record for Activities Under Stormwater General Permit NCG010000 form provided by the Division or a similar inspection form that is inclusive of all of the elements contained in the Division's form. Electronic storage of records will be allowed if approved by the permitting authority.
 - Inspection records must include, at a minimum, the following:
 - Control Measure Inspections: Inspection records must include at a minimum:
 - 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,
 - corrective actions taken and
 - date of actions taken.
 - Stormwater Discharge Inspections: Inspection records must include at a minimum:
 - identification of the discharge outfall 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,
 - actions taken to correct/prevent sedimentation and
 - date of actions taken.
 - Visible Sedimentation Found Outside the Site Limits: Inspection records must include:
 - an explanation as to the actions taken to control future releases,
 - actions taken to clean up or stabilize the sediment that has left the site limits and
 - the date of actions taken.
 - Visible Sedimentation Found in Streams or Wetlands: All inspections should include evaluation of streams or wetlands onsite or offsite (where accessible) to determine if visible sedimentation has occurred.
 - Visible Stream Turbidity - If the discharge from a site results in visible stream turbidity, inspection records must record that evidence and actions taken to reduce sediment contributions. Sites discharging to streams named on the state's 303(d) list as impaired for sediment-related causes may be required to perform additional monitoring, inspections or application of more-stringent management practices if it is determined that the additional requirements are needed to assure compliance with the federal or state impaired-waters conditions. If a discharge covered by this permit enters a stream segment that is listed on the Impaired Stream List for sediment-related causes, and a Total Maximum Daily Load (TMDL) has been prepared for those pollutants, the permittee must implement measures to ensure that the discharge of pollutants from the site is consistent with the assumptions and meets the requirements of the approved TMDL. The DWQ 303(d) list can be found at: http://h2o.enr.state.nc.us/tmdl/General_303d.htm/

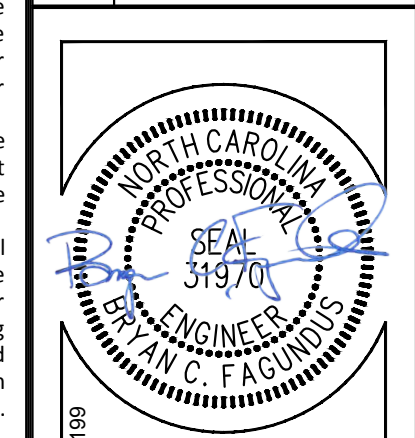
- Temporary Seeding - Seed in accordance with Soil Conservation Service recommendations with regard to seed type, rate of application, fertilizer, etc.

DATE	REVISIONS:
7/22/16	REVISED PER NC DOT TO ADD U/L TO 3" DRIVEWAY PIPE



EROSION CONTROL PLAN

GREENVILLE UTILITIES COMMISSION
Greenville 230 kV South Substation
Chicod Township, Pitt County, North Carolina

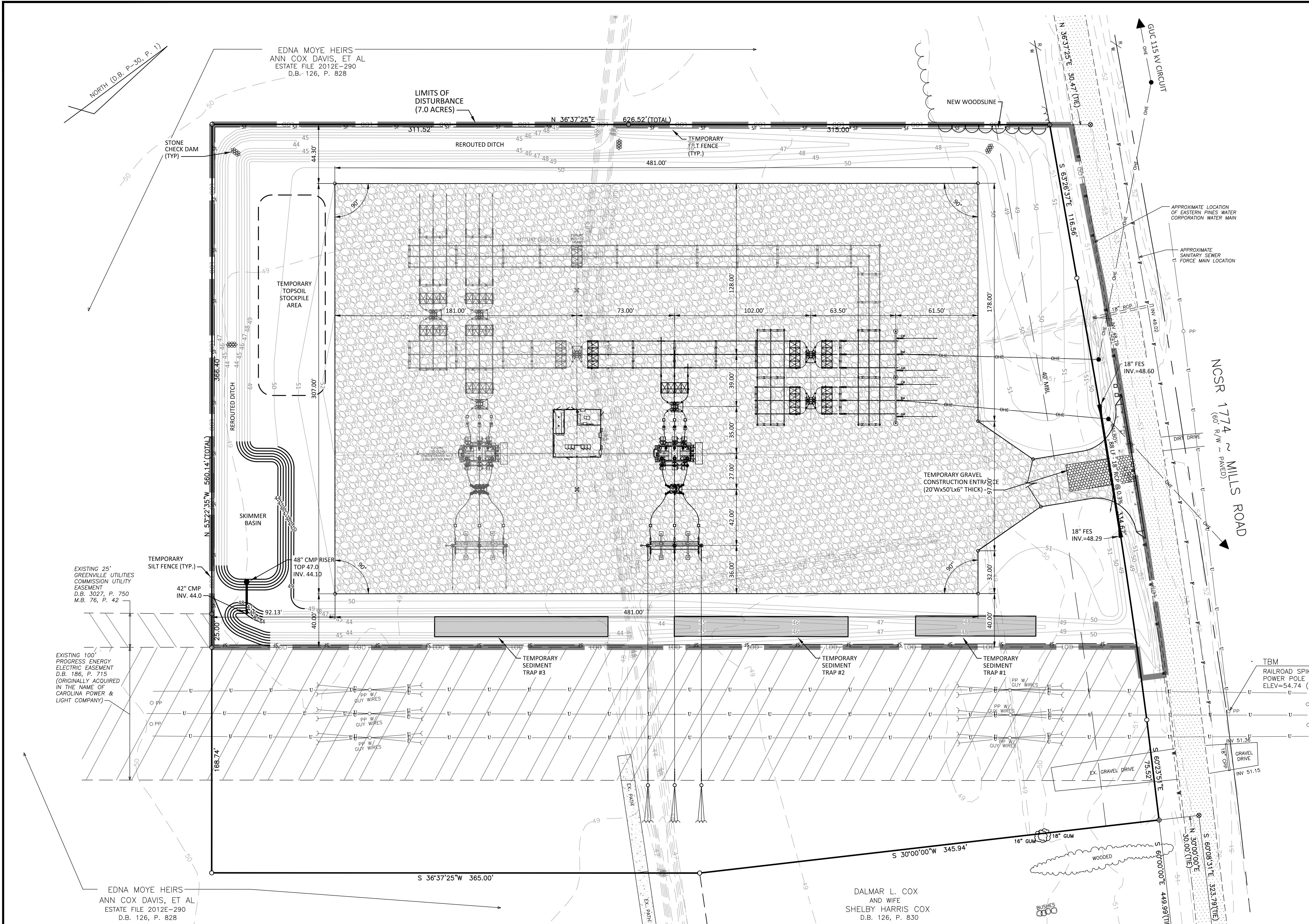


NC License: P-1109

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Project Manager: BCF
Drawn By: EW
Checked By: STA
Project Number: 14008
Drawing Number: D-1025

Date: 03-14-2016



CONSTRUCTION SEQUENCE:

Task	Duration
1. CONSTRUCTION AND IMPLEMENTATION OF SILT FENCE AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.	1 WEEK
2. CLEARING AND GRUBBING	2 WEEKS
3. DITCH RELOCATION (PERFORM PROGRESSING FROM DOWNSTREAM TO UPSTREAM- TEMP SEDIMENT TRAPS & SKIMMER BASIN SHALL BE INSTALLED AS DITCH RELOCATION PROGRESSES THROUGH THESE EROSION CONTROL MEASURES)	4 WEEKS
4. SEED & MULCH RELOCATED DITCH, SEDIMENT & SKIMMER BASINS	1 WEEK
5. RE-ROUTE DRAINAGE FROM EXIST. DITCH TO NEW DITCH	1 DAY
6. STRIP TOPSOIL	1 WEEK
7. MUCK OUT & BACKFILL EXISTING DITCH	1 WEEK
8. IMPORT OFFSITE FILL & ROUGH GRADE SITE	4 WEEKS
9. WATER SERVICE INSTALLATION	1 WEEK
10. PLACEMENT OF CAB	4 WEEKS
11. PERIMETER FENCE INSTALLATION	3 WEEKS
12. ELECTRICAL EQUIPMENT CONSTRUCTION	6 MONTHS
13. PLACEMENT OF #57 STONE	4 WEEKS
14. PERMANENT SEEDING & MULCHING	2 WEEKS
15. REMOVAL OF TEMP. SEDIMENT TRAPS & SKIMMER BASIN	1 WEEK

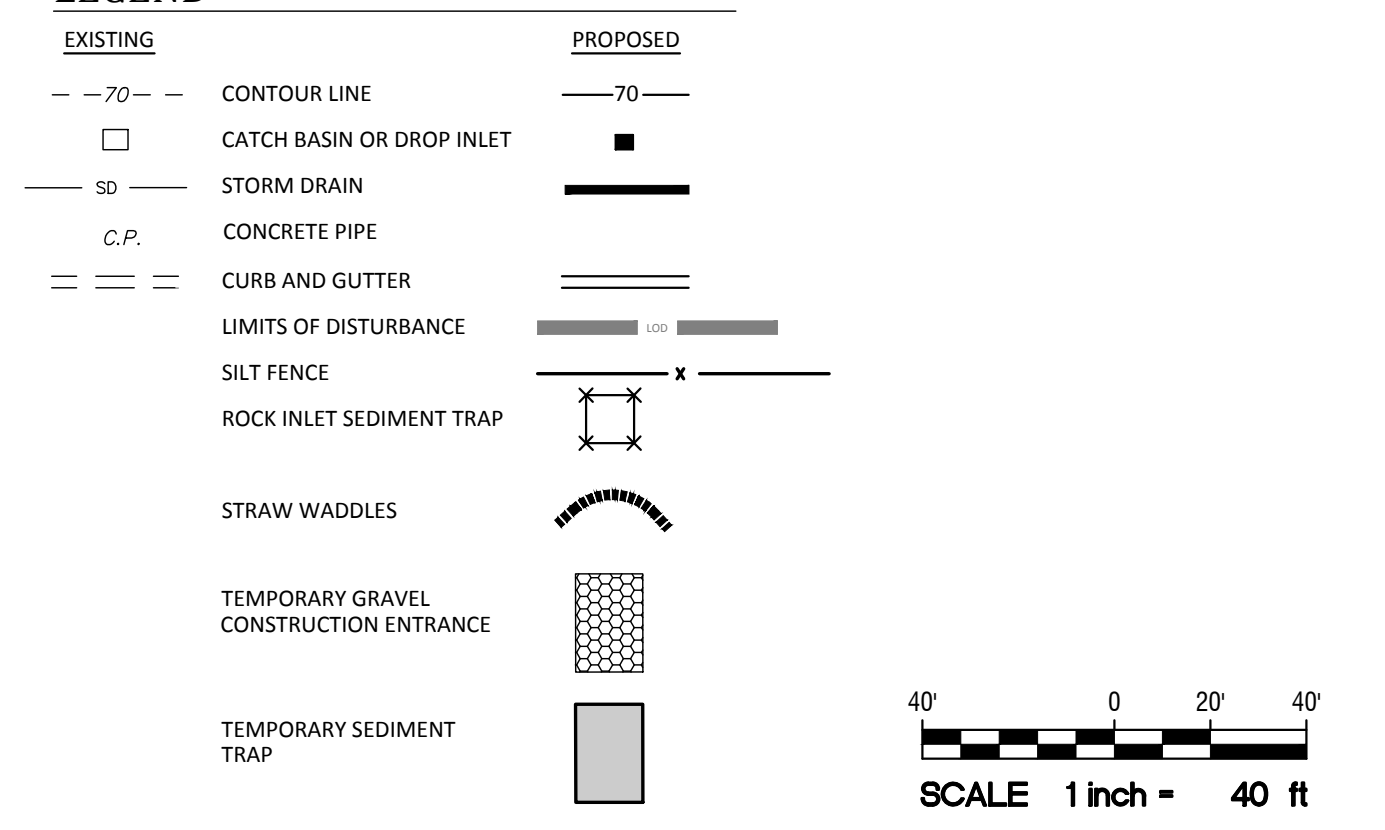
EROSION CONTROL PROVISIONS

- Land disturbing activity beyond that required to install appropriate erosion control measures may not proceed until erosion control measures are inspected and approved.
- Install rock inlet sediment traps around all catch basins, drop inlets, and yard inlets.
- Provide 20' X 50' X 6" stone construction entrances as shown on plan.
- Seed or otherwise provide ground cover devices or structures sufficient to restrain erosion for all exposed slopes within 7 days of completion of any phase of grading on perimeter areas and slopes steeper than 3:1. All other areas shall be stabilized within 14 days.
- Contractor shall inspect and maintain as needed all erosion control devices on a weekly basis and after each major storm event. Failure to keep all erosion control devices in proper working order may result in a stop work order or civil penalties up to \$5000.00 per day of violation.
- The Engineer reserves the right to require additional erosion control measures should the plan or its implementation prove to be inadequate.
- Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations, and rules. In addition local City and County ordinances or rules may also apply to this land disturbing activity. This approval does not supersede any other permit or approval.
- Please be advised of the rules to protect and maintain existing buffers along watercourses in the Neuse and Tar-Pamlico River basins. These rules are enforced by the Division of Environmental Quality (DEQ) and the Pitt County Planning Department. Direct any questions about the applicability of these rules to your project to the Pitt County Planning Department at (252) 902-3250.

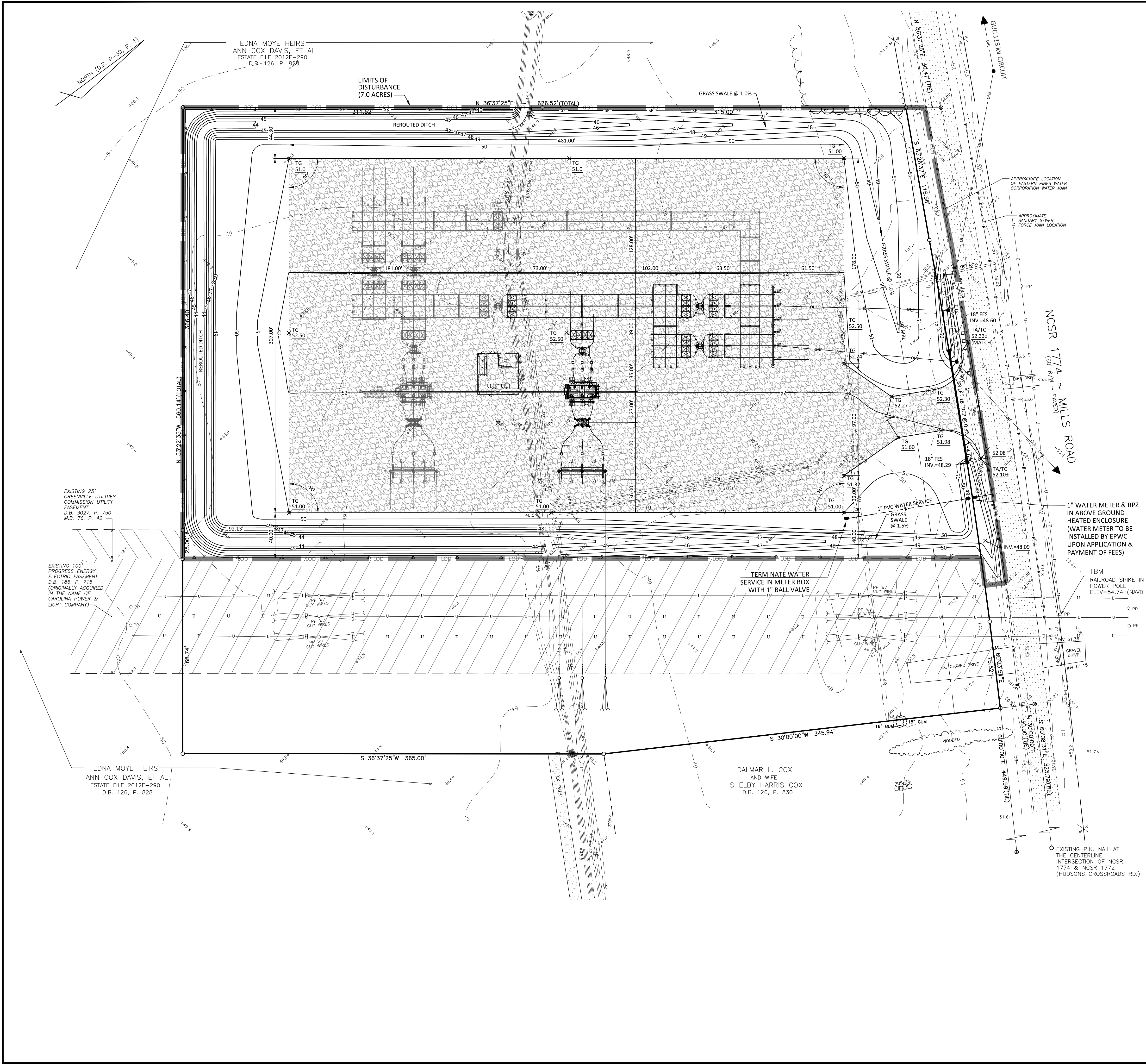
TEMPORARY SEDIMENT TRAP SCHEDULE

TEMPORARY SEDIMENT TRAP DIMENSIONS	TRAP #1	TRAP #2	TRAP #3
TOP WIDTH @ SPILLWAY	16'	16'	16'
TOP LENGTH @ SPILLWAY INVERT	90'	130'	130'
DEPTH	3.5'	3.5'	3.5'
BOTTOM LENGTH	2'	2'	2'
BOTTOM LENGTH	76'	116'	116'
SIDE SLOPES	2:1	2:1	2:1
WEIR LENGTH	6'	6'	6'

LEGEND



SEVERAL OF THE ITEMS LISTED ABOVE MAY BE CONSTRUCTED SIMULTANEOUSLY. AN ANTICIPATED TIME SCHEDULE OF 9 MONTHS IS EXPECTED FOR THIS PROJECT



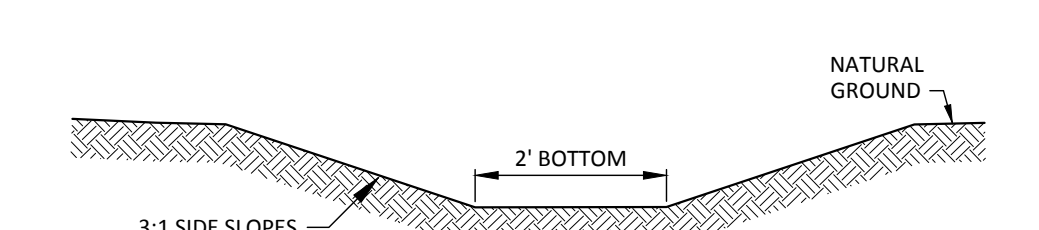
- Grading Notes:**
- CONTRACTOR TO GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE FROM TRANSFORMER YARD TO PROPERTY LINES OR EASEMENT LINES.
 - TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS. PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES DURING CONSTRUCTION.
 - TILL SOIL TO A DEPTH OF 4" MINIMUM.
 - REMOVE ALL ROCKS LARGER THAN 1" MEASURED IN LARGEST DIRECTION.
 - GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM TRANSFORMER YARD.
 - ALL GRADED AREAS TO RECEIVE SEED OR SOD, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
 - INSTALL TEMPORARY TURF REINFORCEMENT MATTING ON ALL SLOPES STEEPER THAN 3:1. MATTING SHALL BE CONTECH LANDLOK C2 OR EQUAL.
 - REFER TO SITE DETAIL PLAN SHEET(S) FOR PAVEMENT SECTIONS.
 - FILL LIFT THICKNESS SHALL NOT EXCEED 9" IN LOOSE THICKNESS.
 - ALL SUB-GRADES WITHIN THE TRANSFORMER YARD SHALL BE COMPACTED TO 98% OF ASTM D698 TO A DEPTH OF 24" AND TO 95% OF ASTM D698 BELOW 24" DEPTHS. ALL OTHER NON-STRUCTURAL AREAS SHALL BE COMPACTED TO 90% OF ASTM D698.
 - ALL SUB-GRADE COMPACTIONS SHALL BE INTERMEDIATELY TESTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL SUB-GRADES SHALL BE THOROUGHLY PROOF-ROLLED TO IDENTIFY SMALL LOCALIZED AREAS OF UNSUITABLE SOILS. ALL UNSUITABLE SOILS SHALL BE UNDERCUT, REPLACED WITH STRUCTURAL FILL, AND COMPACTED AS DESCRIBED ABOVE.

LEGEND

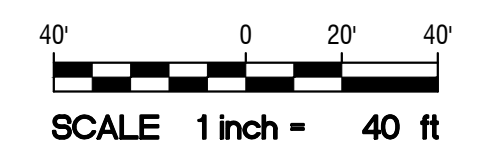
EXISTING	PROPOSED
⊙ EXISTING RAILROAD SPIKE	— 50 — EXISTING SPOT ELEVATION
○ EXISTING IRON PIPE	— SF — FENCE
⊙ EXISTING P.K. NAIL	— GHE — OVERHEAD ELECTRIC
⊙ EXISTING IRON BAR	— LOD — LIMITS OF DISTURBANCE
— OVERHEAD UTILITY LINE	— NG × 170.00 — NATURAL GROUND
— POWER POLE	— TG × 170.00 — TOP OF GRAVEL
— R/W — RIGHT OF WAY	— GR — GRAVEL
— EXISTING BORE LOCATION	— RD — ROCK DAM
— B-1 — BORE LOCATION	
— SHWT-1 — SEASONAL HIGH WATER TABLE BORE LOCATION	



CROSS SECTION RELOCATED DITCH
NOT TO SCALE



CROSS SECTION GRASS SWALE
NOT TO SCALE



COMMENTS: REVISED PER NOTIC TO ADD LIFT TO 36" DRAINWAY PIPE

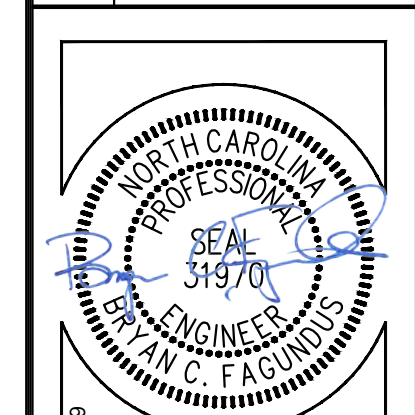
DATE: 7/22/16



GRADING & DRAINAGE PLAN

GREENVILLE UTILITIES COMMISSION

Greenville 230 kV South Substation
Chicod Township, Pitt County, North Carolina

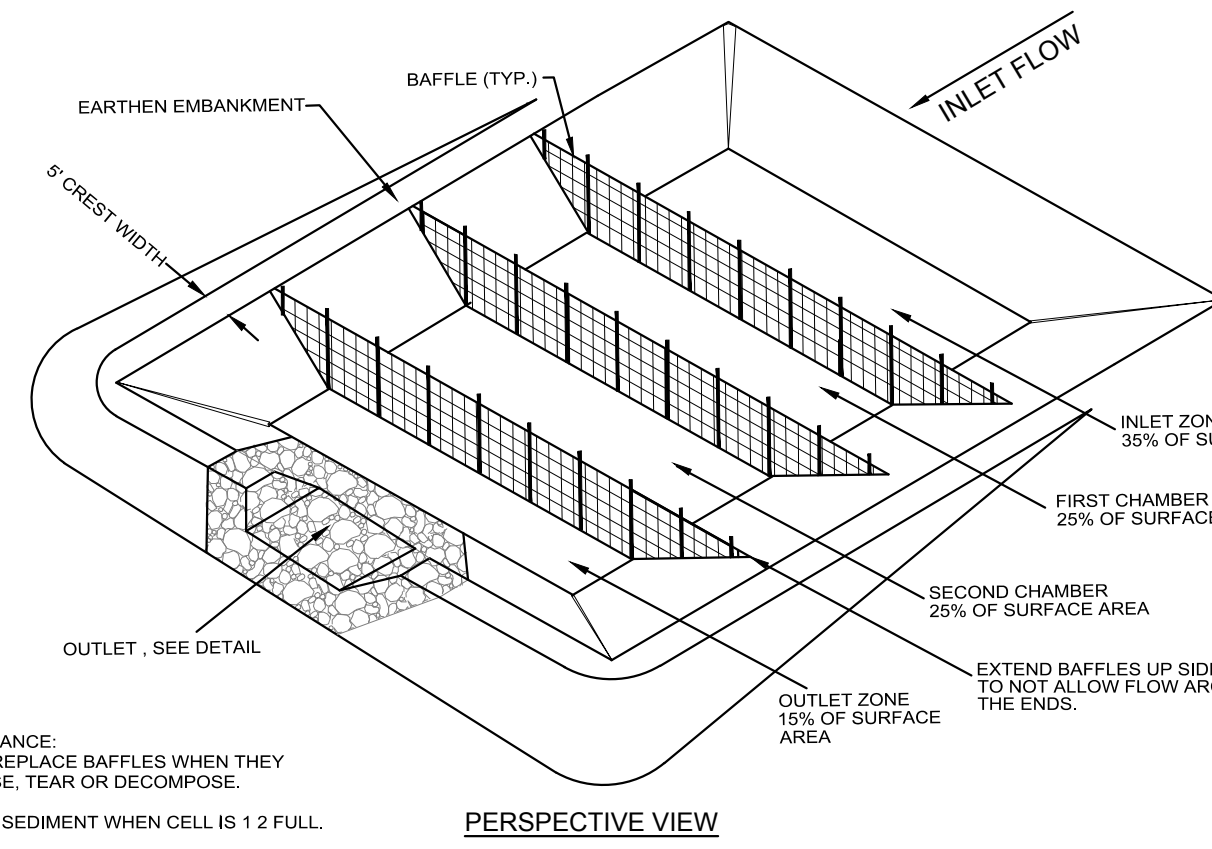


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Project Manager:	BCF
Drawn By:	EW
Checked By:	STA
Project Number:	14008
Drawing Number:	D-1025



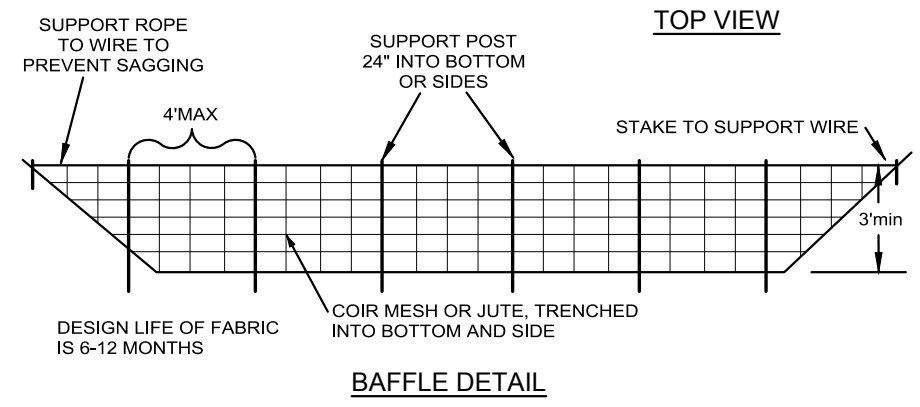
SEDIMENT TRAP DIMENSIONS

TRAP #1	ELEV. 49
SPILLWAY ELEVATION	12'
WIDTH 1' BELOW SPILLWAY	70'
LENGTH 1' BELOW SPILLWAY	1'
WIDTH AT BOTTOM	92'
LENGTH AT BOTTOM	2:1

TRAP #2	ELEV. 49
SPILLWAY ELEVATION	12'
WIDTH 1' BELOW SPILLWAY	125'
LENGTH 1' BELOW SPILLWAY	1'
WIDTH AT BOTTOM	92'
LENGTH AT BOTTOM	2:1

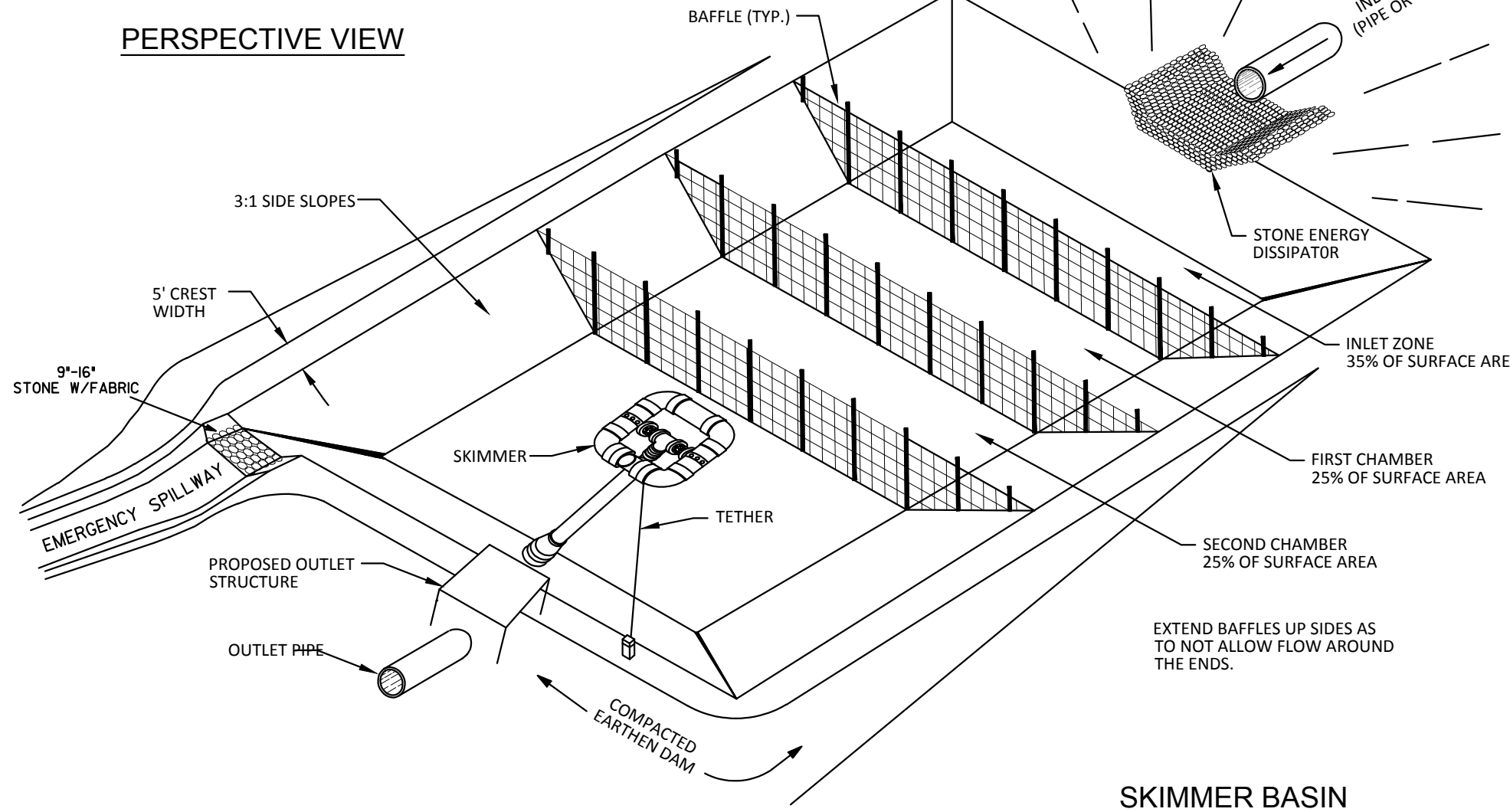
TRAP #3	ELEV. 49
SPILLWAY ELEVATION	12'
WIDTH 1' BELOW SPILLWAY	125'
LENGTH 1' BELOW SPILLWAY	1'
WIDTH AT BOTTOM	111'
LENGTH AT BOTTOM	2:1

NOTE:
 - 3 BAFFLES (MIN) BETWEEN INLET & OUTLET.
 - SEE N.C. DENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATION & DESIGN CRITERIA.



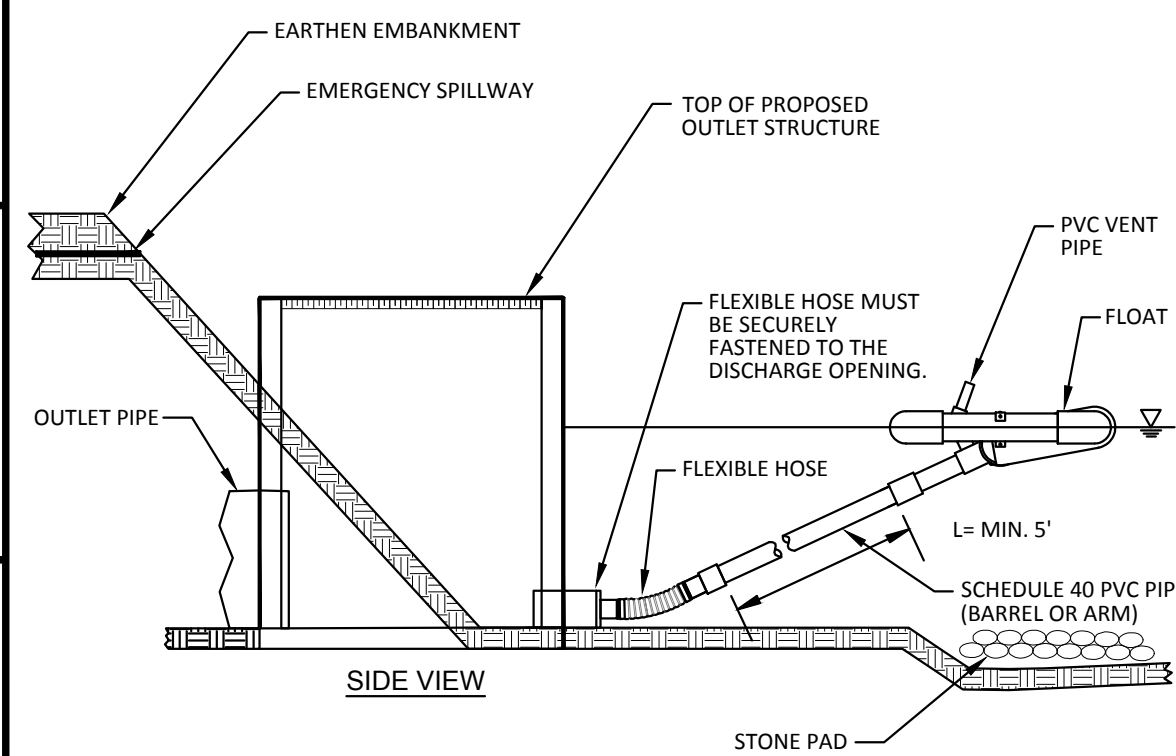
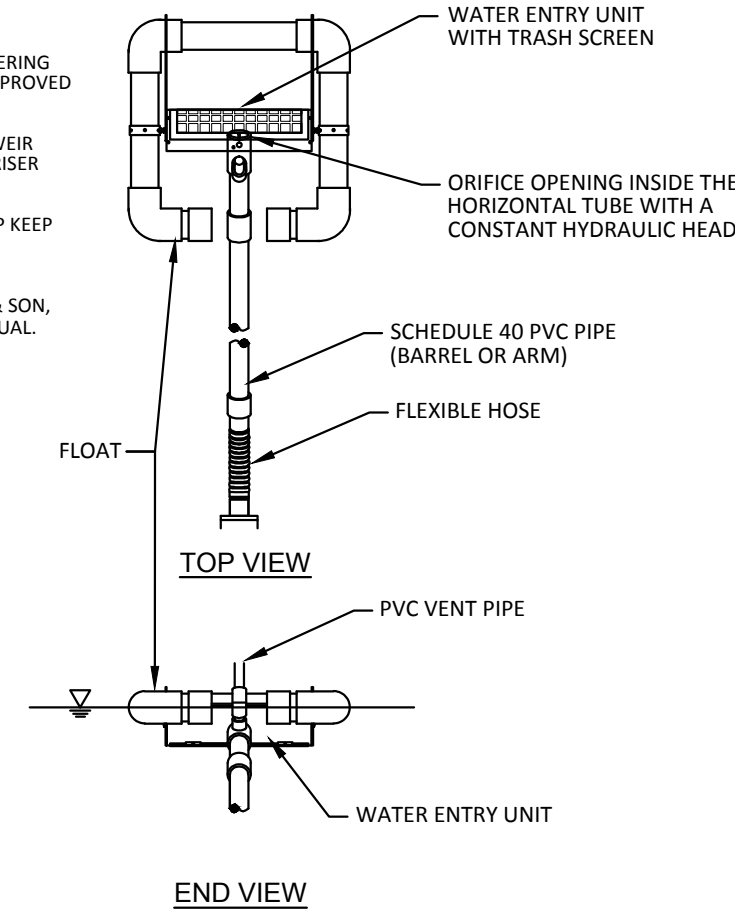
TEMPORARY SEDIMENT TRAP

(NOT TO SCALE)



NOTES:

- SKIMMER IS TO BE A SURFACE DEWATERING DEVICE SUCH AS BMP SKIMMER OR APPROVED DEVICE.
- SKIMMER SHOULD RISE TO LEVEL OF WEIR HEIGHT IN TEMPORARY BASIN OR TO RISER INLET.
- ROPE ATTACHED TO SKIMMER TO HELP KEEP SKIMMER CLEAN.
- SKIMMER SHALL BE 1.5' SKIMMER AS MANUFACTURED BY J.W. FABRICOTH & SON, INC. (919) 732-1244 OR APPROVED EQUAL.



SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE

(NOT TO SCALE)

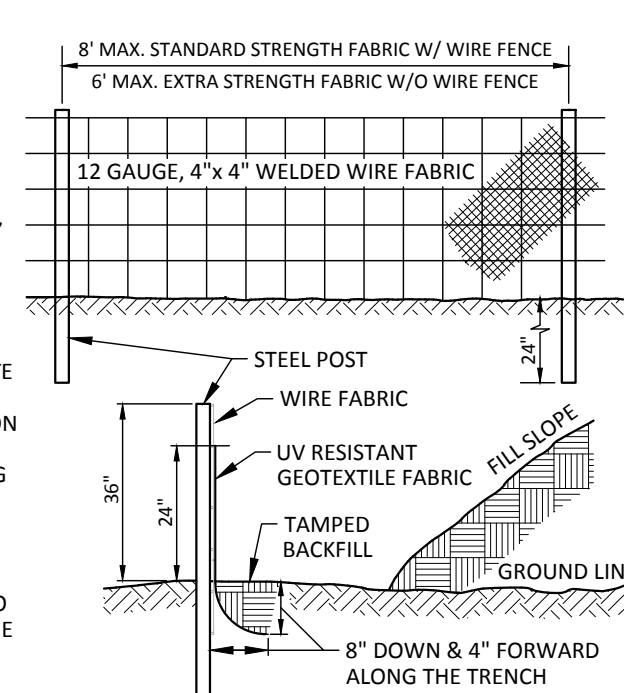
NOTES:

- 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.

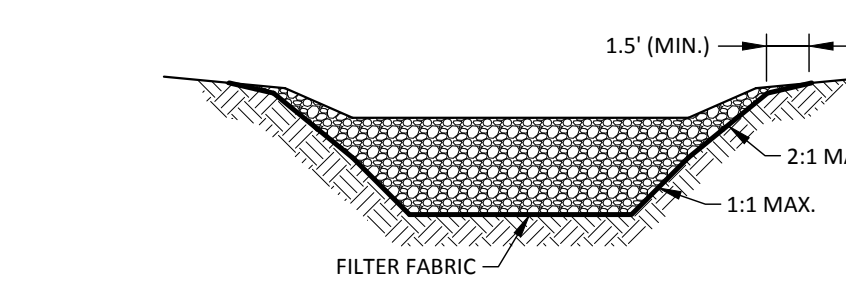
REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

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.



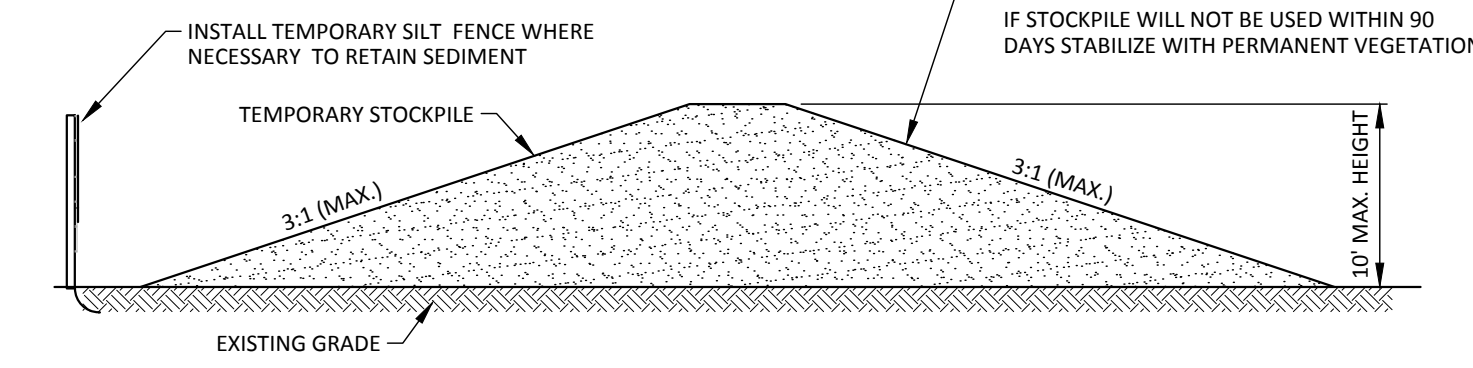
TEMPORARY SILT FENCE

(NOT TO SCALE)



STONE CHECK DAM

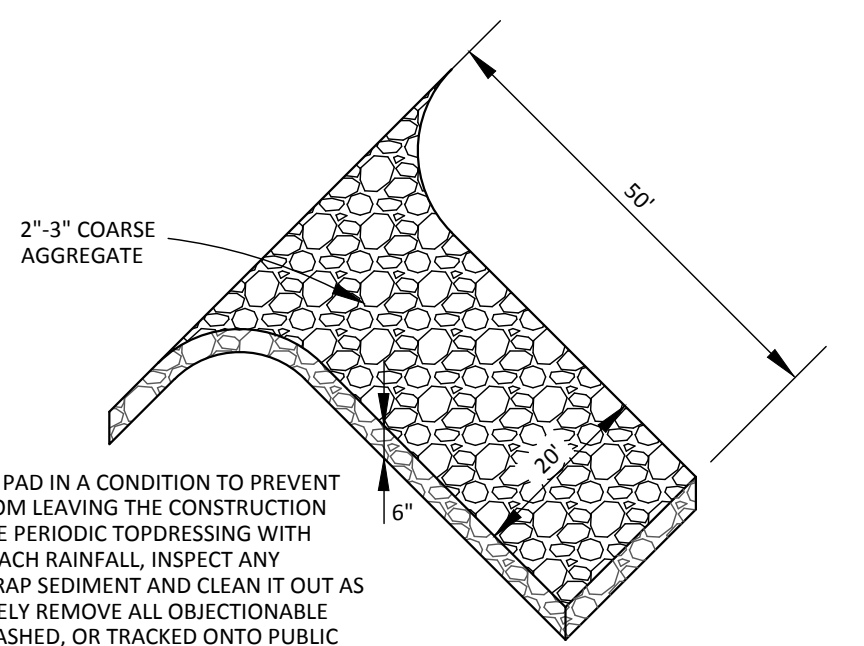
(NOT TO SCALE)



TEMPORARY STOCKPILE

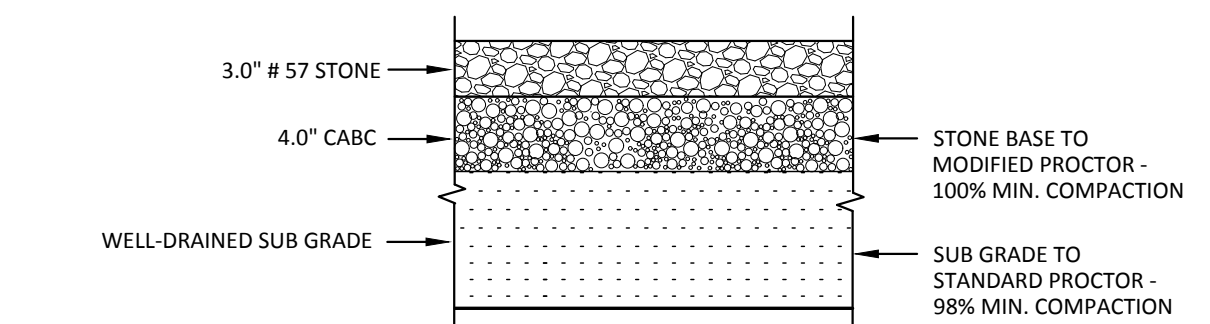
Drawing No. EC-22

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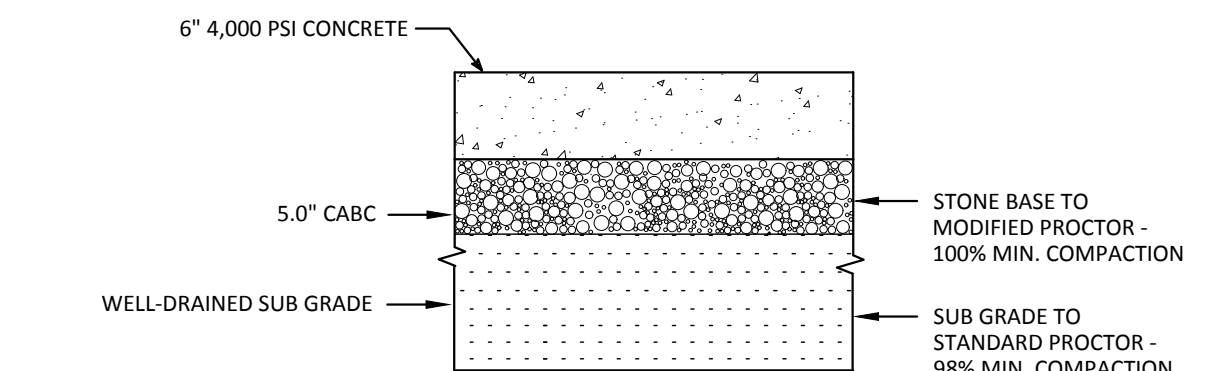
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

(NOT TO SCALE)



SUBSTATION GRAVEL PAVEMENT SECTION

(NOT TO SCALE)

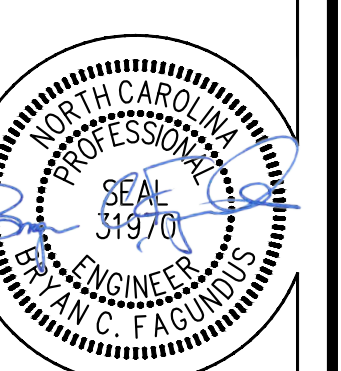


CONCRETE PAVEMENT SECTION

(NOT TO SCALE)

DETAILS

GREENVILLE UTILITIES COMMISSION
 Greenville 230 kV South Substation
 Chicod Township, Pitt County, North Carolina



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Project Manager: BCF
 Drawn By: EW
 Checked By: STA
 Project Number: 14008
 Drawing Number: D-1025

C-5

Date: 03-14-2016

COMMENTS
 DATE
 1/22/16
 REVISION PER NC DOT TO ADD UP TO 3" DRAINWAY PIPE

REVISIONS: