

SITE LOCATION

VICINITY MAP

N.T.S.

## NPDES PERMIT INFORMATION

NPDES DISTURBED AREA = ± 1.35 ACRES

MAXIMUM LENGTH OF DISTURBED AREA = ± 820 LINEAR FEET (LF)

### ENGINEER INFORMATION

COMPANY: ALLIANCE CONSULTING
ENGINEERS, INC.
CONTACT: BENJAMIN S. WHALEY, P.E.
ADDRESS: P.O. BOX 8147
CITY, STATE: COLUMBIA, SOUTH CAROLINA

29202
TELEPHONE: (803) 779-2078
FAX: (803) 779-2079
EMAIL: SWHALEY@ALLIANCECE.COM

# **Utility Provider Contacts**

Water Provider:

Contact: Chesterfield County Rural Water - Mr. Ray Wallace 13598 South Carolina 9 Bypass; Chesterfield, SC Mobile: (843) 672-4005 (wallaceray4005@aol.com)

Wastewater Provider: None Available

Electrical Utility Provider:

Contact: Duke Energy, Inc.

Ms. Kelly Harrell (kelly.harrell@duke-energy.com)

Mobile: (910) 695-9469

Telecommunications Provider:

Contact: Sand Hill Telephone Cooperative

112 South Main Street Jefferson, South Carolina Telephone: (843) 658-3434

Gas Provider: None Available

# **Chesterfield County Board Members**

Mr. William Rhett Butler, Chairman
Ms. Mary D. Anderson, Vice-Chair
Ms. Hattie Burns
Mr. Benjamin Conklin, Jr.
Mr. Douglas A. Curtis
Mr. Ethan Thomas Foard
Mr. Gerald L. Miller
Mr. Bruce E. Rivers

Mr. William Todd Smallwood

# DEVELOPER INFORMATION

SHEET

THISTLE DOWN LANE PLAN AND PROFILE

SEDIMENT AND EROSION CONTROL PLAN

**EXISTING CONDITIONS PLAN** 

STORM DRAINAGE PROFILES

STORM DRAINAGE DETAILS

OVERALL SITE CONCEPTUAL LAYOUT AND GENERAL NOTES

EROSION AND SEDIMENT CONTROL DETAILS (SHEET 2 OF 2) EROSION AND SEDIMENT CONTROL DETAILS (SHEET 2 OF 2)

THISTLE DOWN LANE CROSS SECTION STA 0+50 TO 1+50 (SHEET 1 OF 6) THISTLE DOWN LANE CROSS SECTION STA 2+00 TO 3+00 (SHEET 2 OF 6)

THISTLE DOWN LANE CROSS SECTION STA 3+50 TO 4+50 (SHEET 3 OF 6)

THISTLE DOWN LANE CROSS SECTION STA 5+00 TO 6+00 (SHEET 4 OF 6)

THISTLE DOWN LANE CROSS SECTION STA 6+50 TO 7+50 (SHEET 5 OF 6)

THISTLE DOWN LANE CROSS SECTION STA 7+92 TO 8+15 (SHEET 6 OF 6)

COVER

SITE DETAILS

DEVELOPER: CHESTERFIELD COUNTY PUBLIC WORKS
CONTACT: MR. JEFF McCARN
ADDRESS: 97 JONES ROAD
CITY, STATE: CHESTERFIELD, SC 29709
TELEPHONE: (843) 623-2464 (OFFICE)

JMCCARN@SHTC.NET

# OWNER INFORMATION

2022 C-FUND ROAD IMPROVEMENTS

FOR THE ±750-LF THISTLE DOWN LANE

OFF S13-51(BRIDLEWOOD ROAD) NEAR

THE TOWN OF CHERAW IN

INCORPORATED CHESTERFIELD

COUNTY, SOUTH CAROLINA

SHEET INDEX

OWNER: CHESTERFIELD COUNTY
CONTACT: MR. TIM EUBANKS
ADDRESS: 178 MILLS STREET
CITY, STATE: CHESTERFIELD, SC 29709
TELEPHONE: (843) 623-2595 (OFFICE)
(843) 680-2216 (CELL)
EMAIL: TIMEUBANKS@CHESTERFIELDCOUNTY SC.COM

SHEET NO

C0.0

C1.0

C4.2

C4.3

C4.4

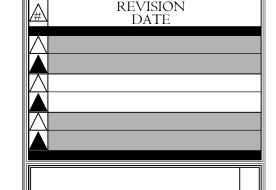
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C5.0

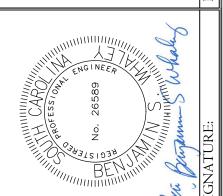
C6.0

C7.1 C4.2

# South Carolina Big Before you Dig









ANCE CONSULTING ENGINEERS, INC.
POST OFFICE BOX 8147
IMBIA, SOUTH CAROLINA 29202-8147
PHONE (803) 779-2078
FAX (803) 779-2079

IMPROVEMENTS FOR THE
750-LF THISTLE DOWN LANE
F S13-51 (BRIDLEWOOD ROAD)
EAR THE TOWN OF CHERAW
IN INCORPORATED
CHESTERFIELD COUNTY,
SOUTH CAROLINA

DECEMBER 2022

Project No. 22211-0013

#### STANDARD NOTES

1. PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE PROJECT SITE, THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL POSSESS ALL APPLICABLE PERMITTING AND THE OWNER AND ENGINEER WILL BE GIVEN AT LEAST TWENTY-FOUR (24) HOURS NOTICE BEFORE BEGINNING WORK.

#### PROCEDURES / RESPONSIBILITIES

- . ALL WETLANDS SIGNAGE TO BE INSTALLED PER THE APPROVED CONSTRUCTION DRAWINGS PRIOR TO ANY LAND DISTURBING ACTIVITIES. 2. SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROGENATING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 3. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
- WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED. WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THE PORTION OF THE SITE.
- 4. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED. THE PERMITTEE MUST ADDRESS THE NECESSARY
- REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. 5. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL
- DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE. 6. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL
- CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 7. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 8. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURES AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000
- 9. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 10. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREAS AND ALL WOS. A 30-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 11.LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- 12.A COPY OF THE OS-SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THE FINAL
- 13.INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE BEEN PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 14. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL AND REPLACE WITHIN ALL GRASSED AND LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6". IF ADDITIONAL TOPSOIL IS REQUIRED TO MEET THE SPECIFICATIONS, THE CONTRACTOR MUST PROVIDE FROM AN OFF-SITE
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL TO PROVIDE EQUIVALENT OR BETTER TREATMENT PRIOR TO
- 16.MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.)
- 17. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: • WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;

BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

- WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION.
- FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
- SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING. 18. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST
- BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE THE CONSTRUCTION SITE. 19.IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE
- 20.A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 29.5 ACRES OR MORE THIS CONFERENCE MUST BE HELD
- ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE. 21.AN AS-BUILT SURVEY(S), SIGNED AND SEALED BY A S.C. LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER, SHOULD BE COMPLETED FOR CHESTERFIELD COUNTY ON THIS SITE. THE SURVEY(S) WILL BE PROVIDED BY THE CONTRACTOR TO ALLIANCE CONSULTING ENGINEERS TO SHOW DITCH DEPTH AND LOCATIONS, PIPE SIZE AND INVERTS, AND ANY RELOCATED UTILITIES.

REFERENCES: REFERENCE IS MADE TO LIDAR DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) NATURAL

- RESOURCES CONSERVATION SERVICE (NRCS) GEOSPATIAL DATA GATEWAY FOR THE MAJORITY OF THE PROPERTY.
- REFERENCE IS MADE TO TOPOGRAPHIC SURVEY OF THE PROPOSED ROADWAY ALIGNMENT & UNDERGROUND UTILITIES BY WILLIAM E. HAYES PROFESSIONAL LAND SURVEYOR DATED NOVEMBER 4, 2022. REFERENCE IS MADE TO PROPERTY AND RIGHT-OF-WAY LINE FOR THE INDIVIDUAL LOTS BY THE CHESTERFIELD COUNTY GEOGRAPHIC

INFORMATION SYSTEM (GIS).

DEVELOPER: CHESTERFIELD COUNTY PUBLIC WORKS

CONTACT: MR. JEFF McCARN ADDRESS: 97 JONES ROAD

**DEVELOPER INFORMATION** 

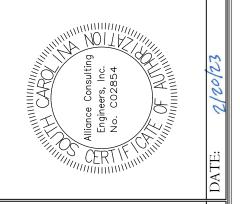
CITY, STATE: CHESTERFIELD, SC 29709 TELEPHONE: (843) 623-2464 (OFFICE) EMAIL: JMCCARN@SHTC.NET

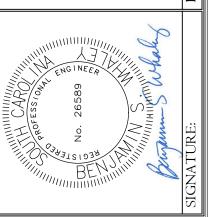
OWNER INFORMATION

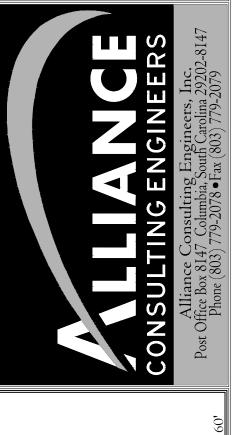
OWNER: CHESTERFIELD COUNTY CONTACT: MR. TIM EUBANKS ADDRESS: 178 MILLS STREET CITY, STATE: CHESTERFIELD, SC 29709 TELEPHONE: (843) 623-2595 (OFFICE)

(843) 680-2216 (CELL) TIMEUBANKS@CHESTERFIELDCOUNTY SC.COM

SCDOT COMMENT - BSW



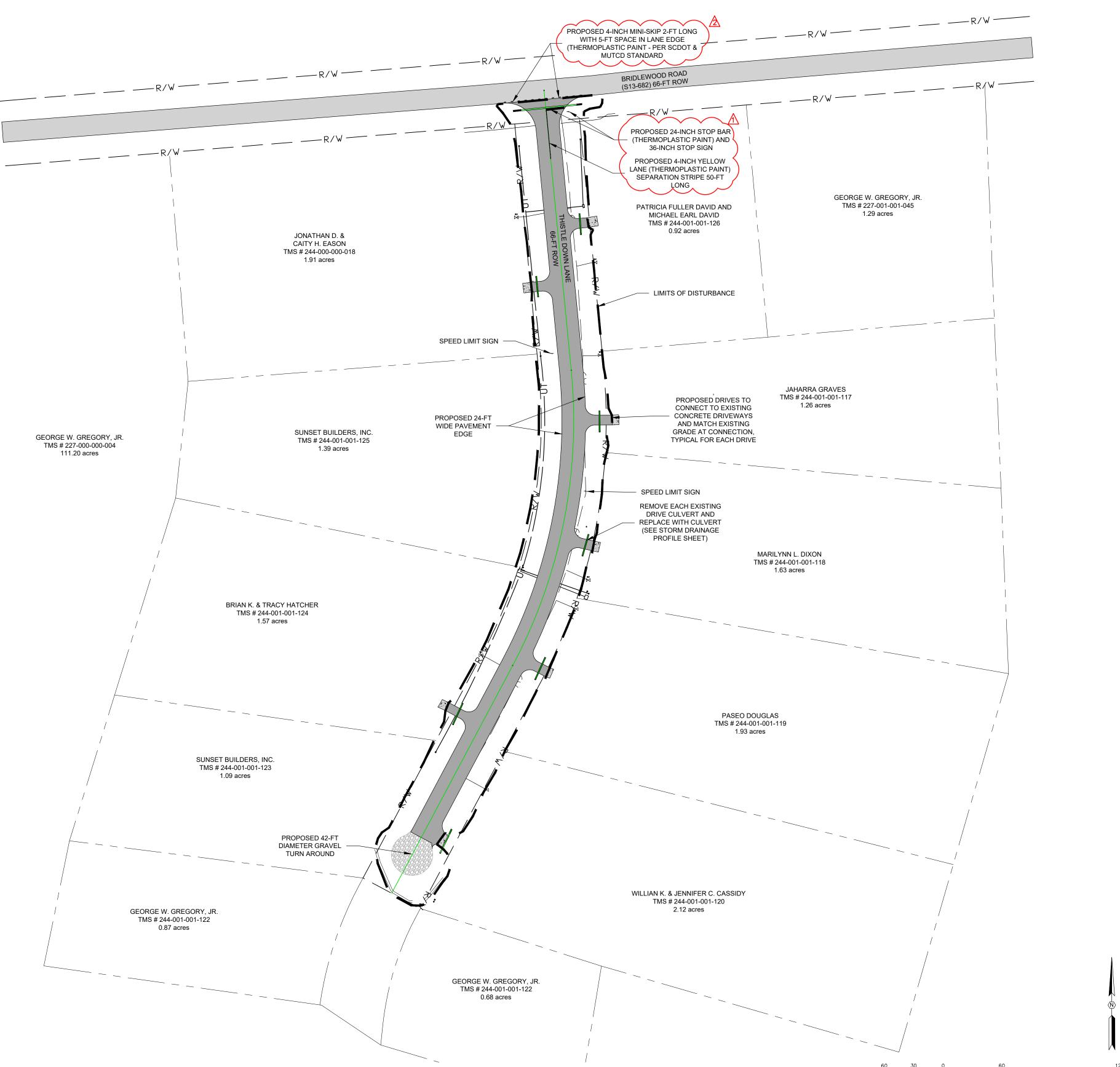


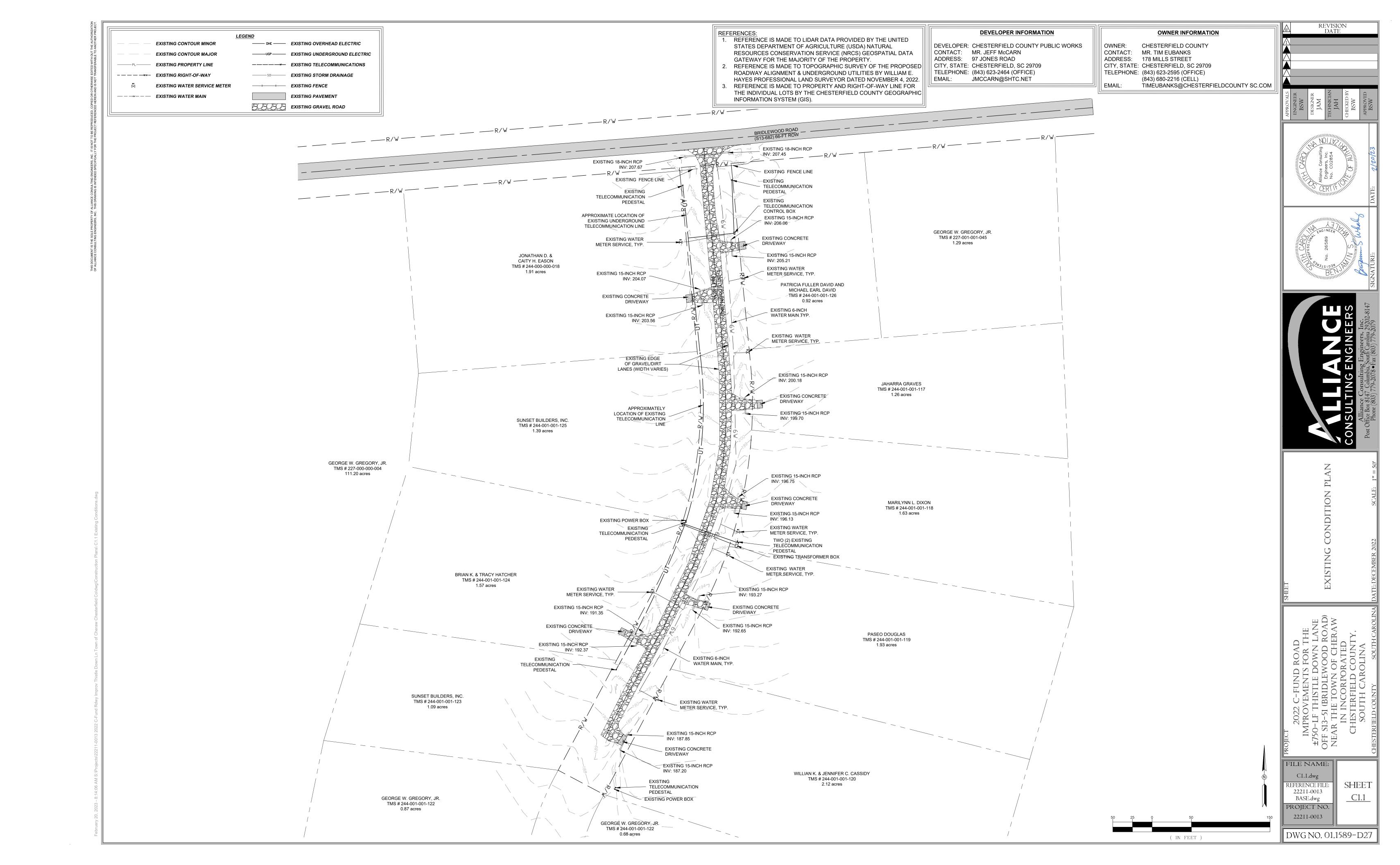


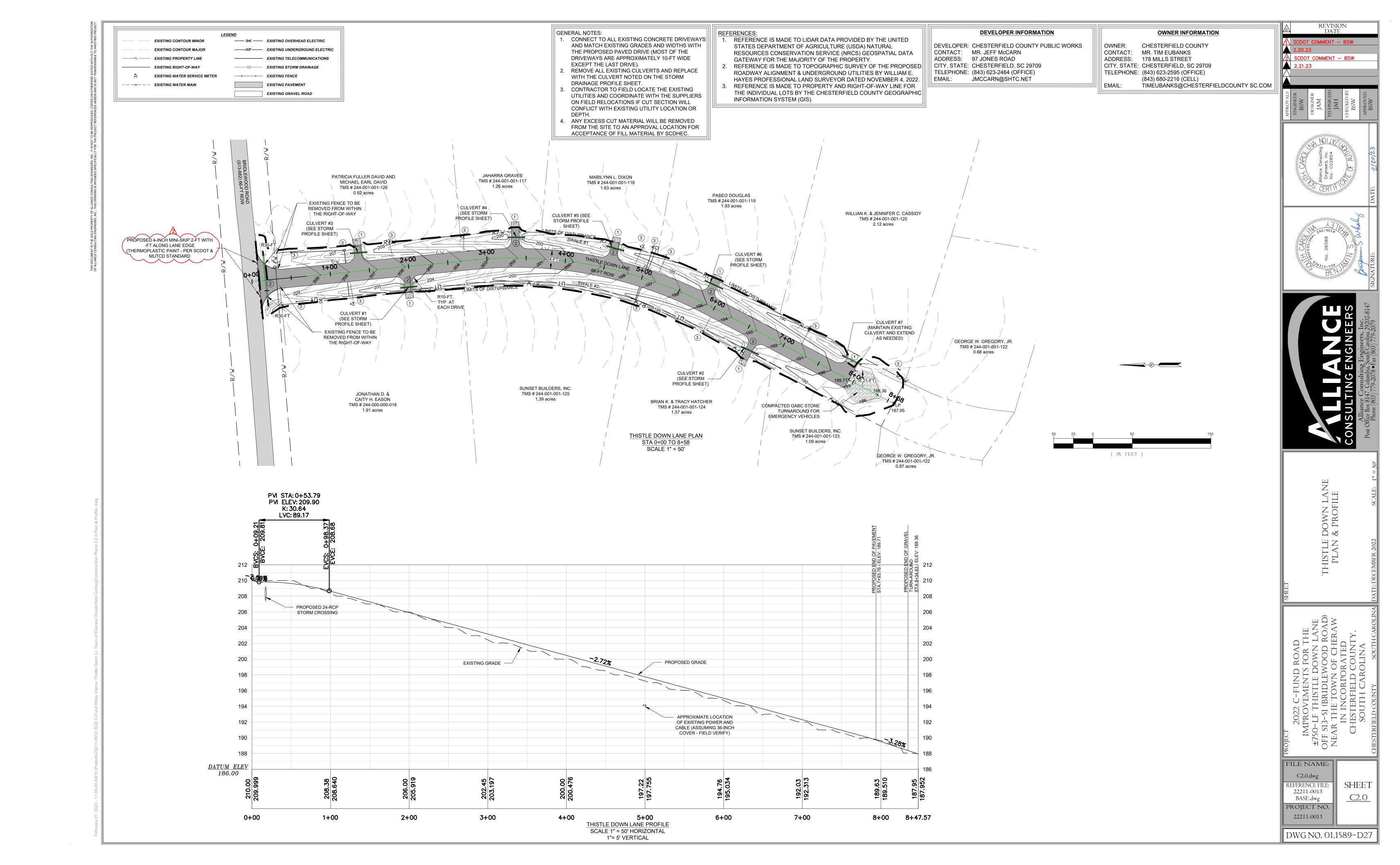
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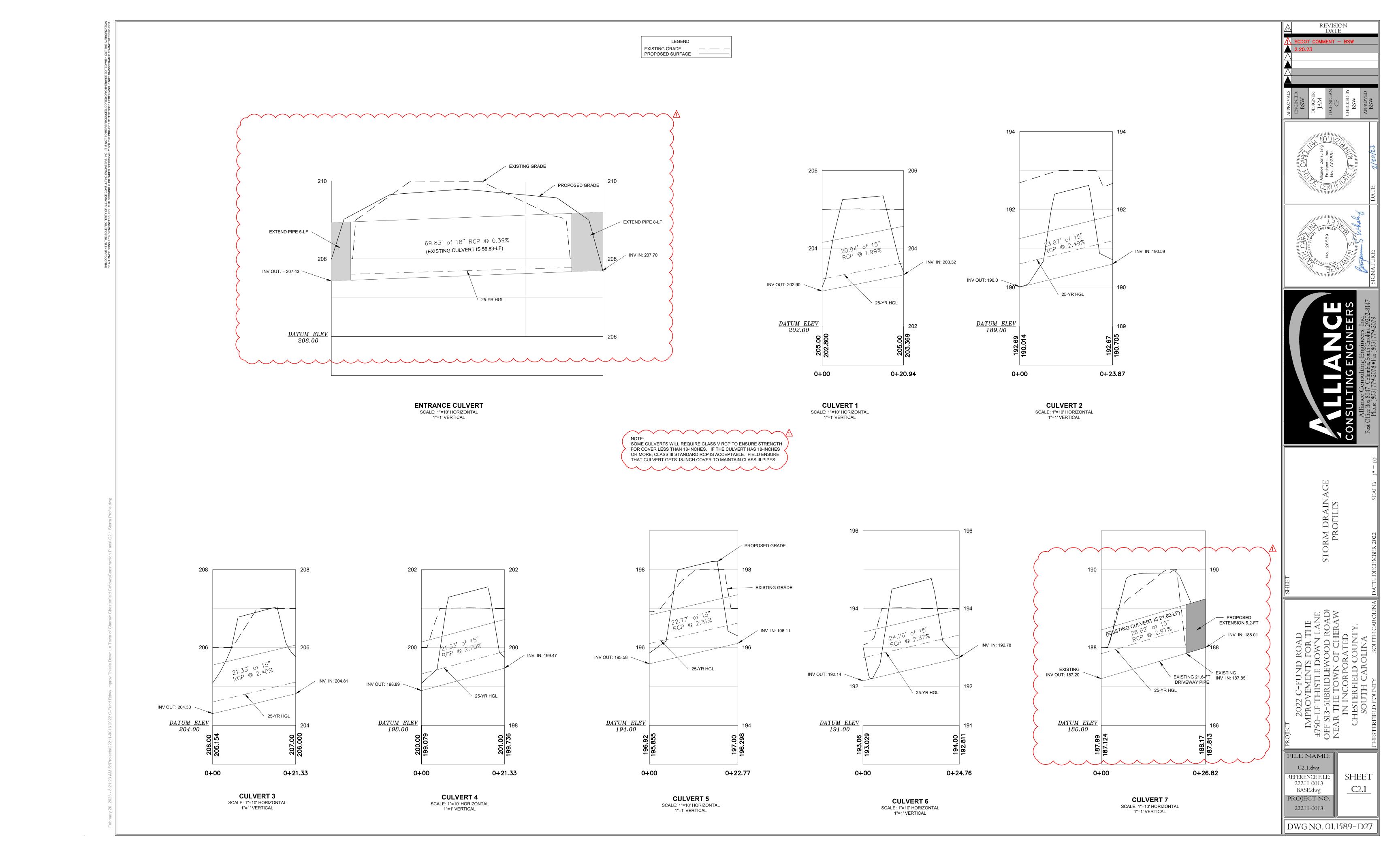
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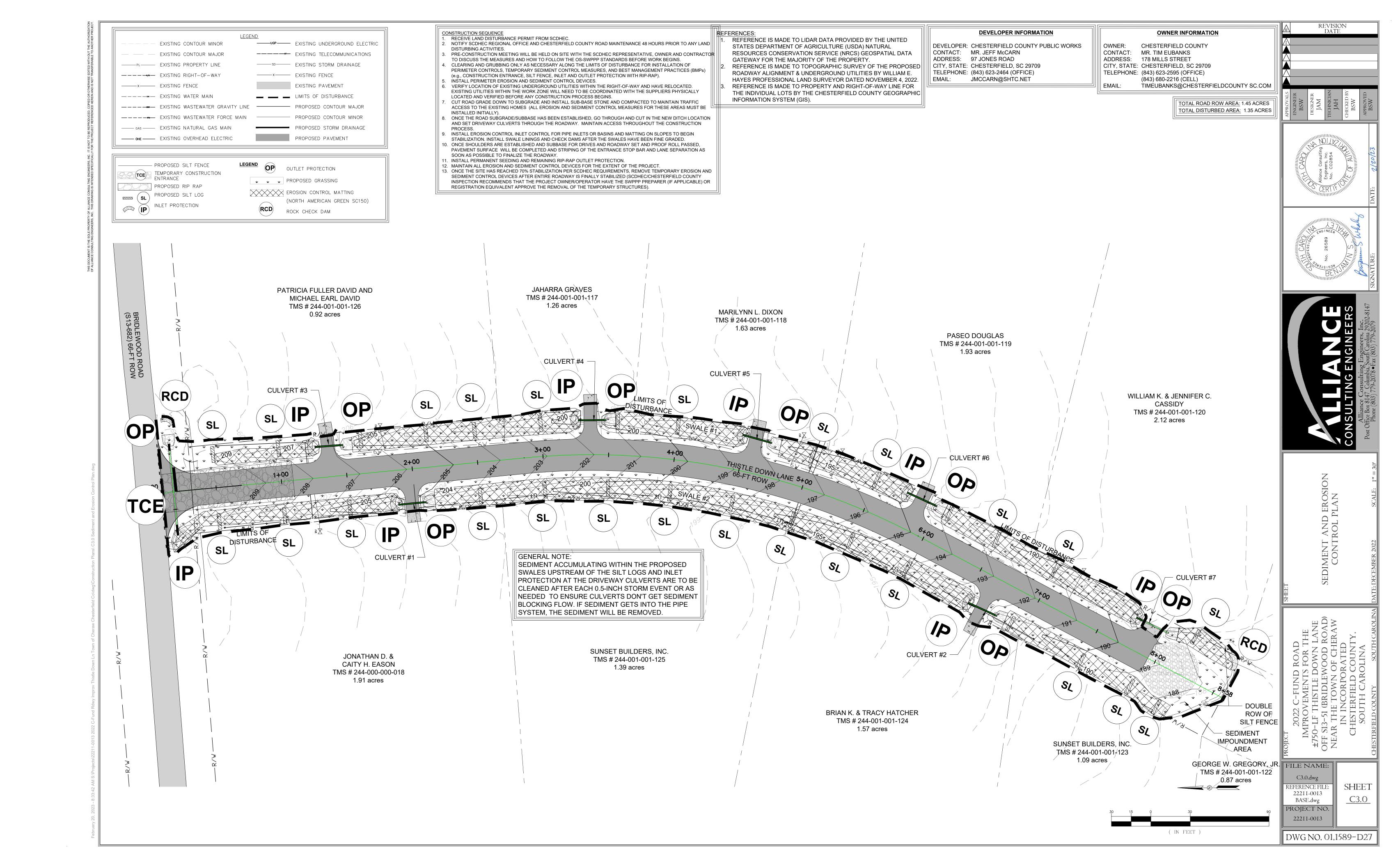
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2022 C-FUND ROAD
IMPROVEMENTS FOR TH
±750-LF THISTLE DOWN LA
OFF S13-51 (BRIDLEWOOD RC
NEAR THE TOWN OF CHER
IN INCORPORATED
CHESTERFIELD COUNTY
SOUTH CAROLINA

FILE NAME: C4.0.dwg SHEET REFERENCE FILE 22211-0013 C4.0 BASE.dwg PROJECT NO.

DWG NO. 01,1589-D27

22211-0013

FILE NAME:

C4.I.dwg

REFERENCE FILE 22211-0013

BASE.dwg

PROJECT NO. 22211-0013

DWG NO. 01,1589-D27

SHEET

\_C4.1

THISTLE DOWN LAN CROSS SECTION STA 3+50 TO 4+50 (SHEET 3 OF 6)

FILE NAME: C4.2.dwg SHEET

REFERENCE FILE: 22211-0013 C4.2 BASE.dwg PROJECT NO. 22211-0013

THISTLE DOWN LANE
CROSS SECTIONS 5+00 - 6+00
SCALE 1" = 10' HORIZONTAL
1"=1" VERTICAL

FILE NAME: C4.3.dwg SHEET REFERENCE FILE: 22211-0013 \_C4.3\_ BASE.dwg

PROJECT NO. 22211-0013

FILE NAME:

C4.3.dwg

REFERENCE FILE: 22211-0013

BASE.dwg PROJECT NO.

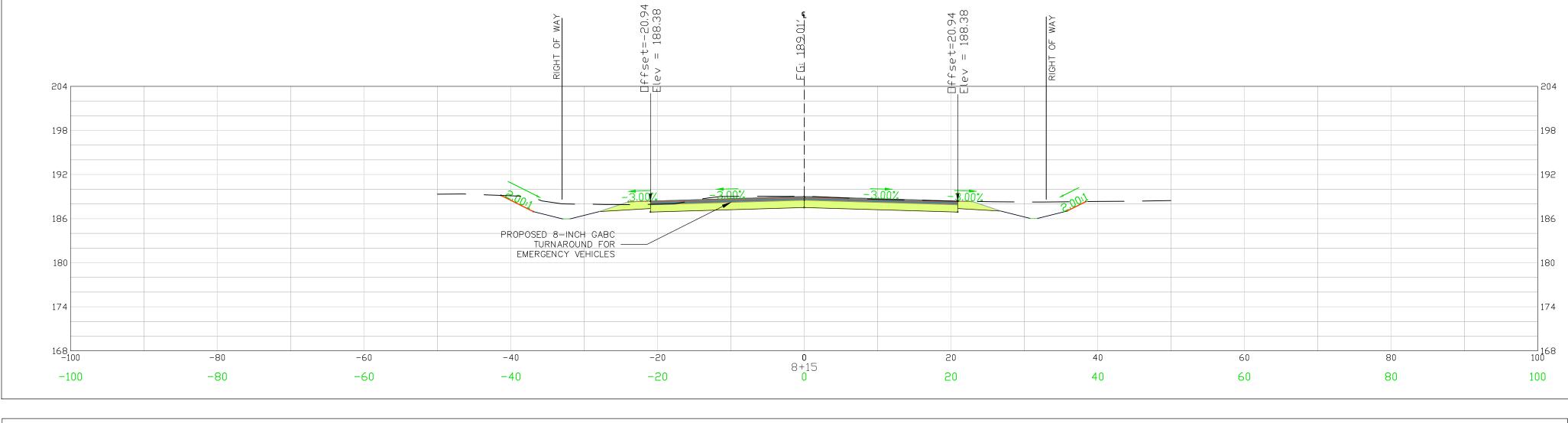
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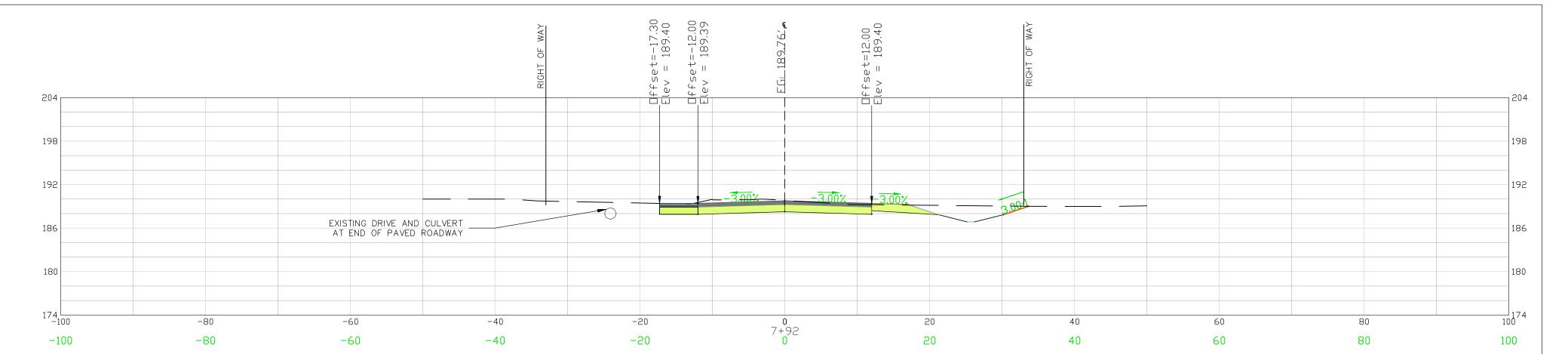
DWG NO. 01,1589-D27

SHEET

<u>C4.4</u>

THISTLE DOWN LANE
CROSS SECTIONS 6+50 - 7+50
SCALE 1" = 10' HORIZONTAL
1"=1" VERTICAL





2022 C-FUND ROAD
IMPROVEMENTS FOR THE
±750-LF THISTLE DOWN LANE
OFF S13-51(BRIDLEWOOD ROAD)
NEAR THE TOWN OF CHERAW
IN INCORPORATED
CHESTERFIELD COUNTY,
SOUTH CAROLINA FILE NAME: C4.3.dwg

REFERENCE FILE 22211-0013 BASE.dwg PROJECT NO. 22211-0013

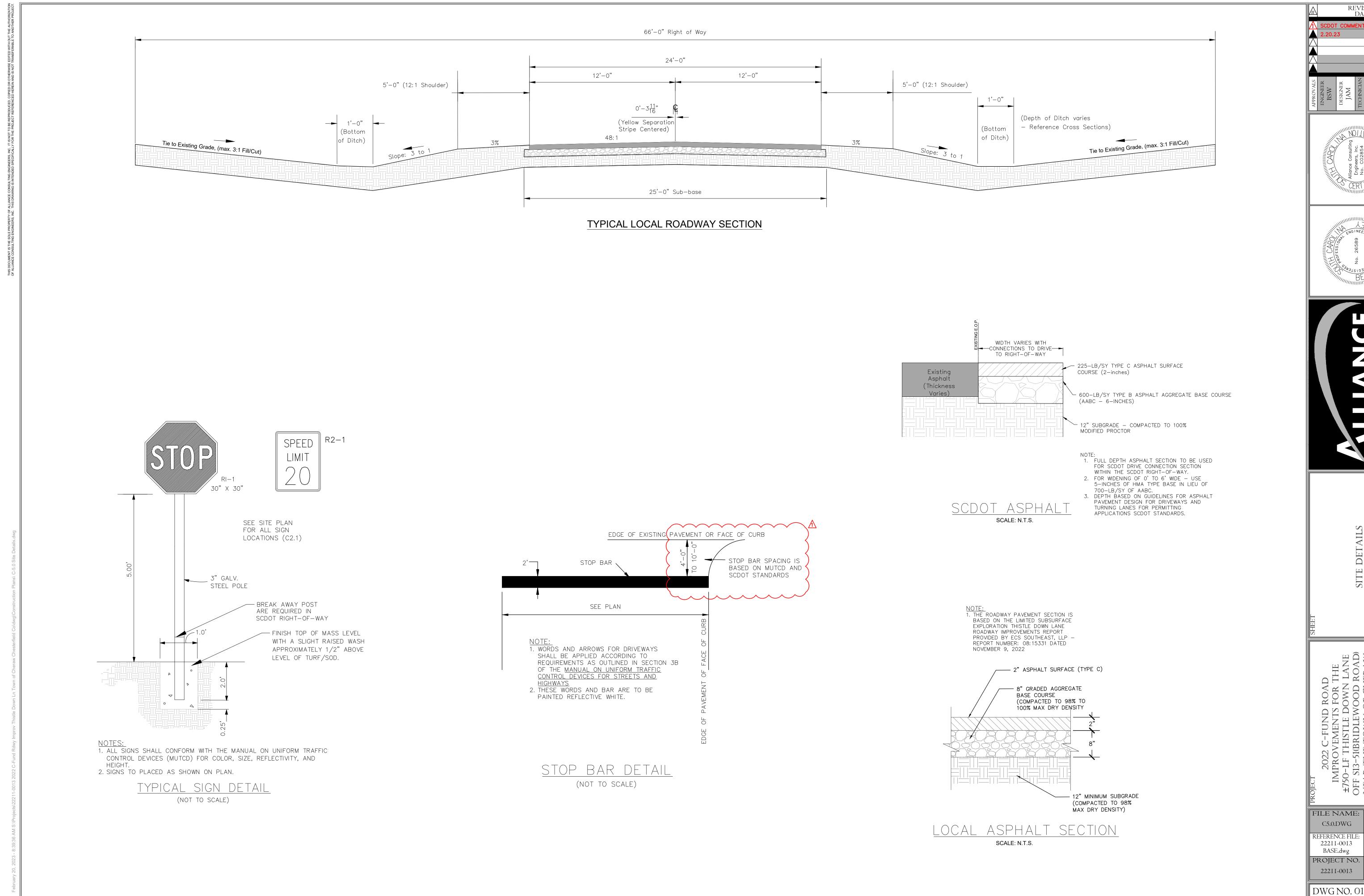
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SHEET

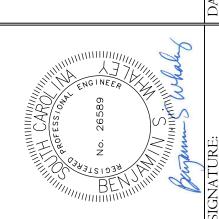
<u>C4.5</u>

THISTLE DOWN LAN CROSS SECTION STA 7+92 TO 8+15 (SHEET 6 OF 6)

THISTLE DOWN LANE
CROSS SECTIONS 7+92 (END OF
PAVEMENT) - 8+15 (CENTER OF
GRAVEL TURN AROUND
SCALE 1" = 10' HORIZONTAL
1"=1" VERTICAL





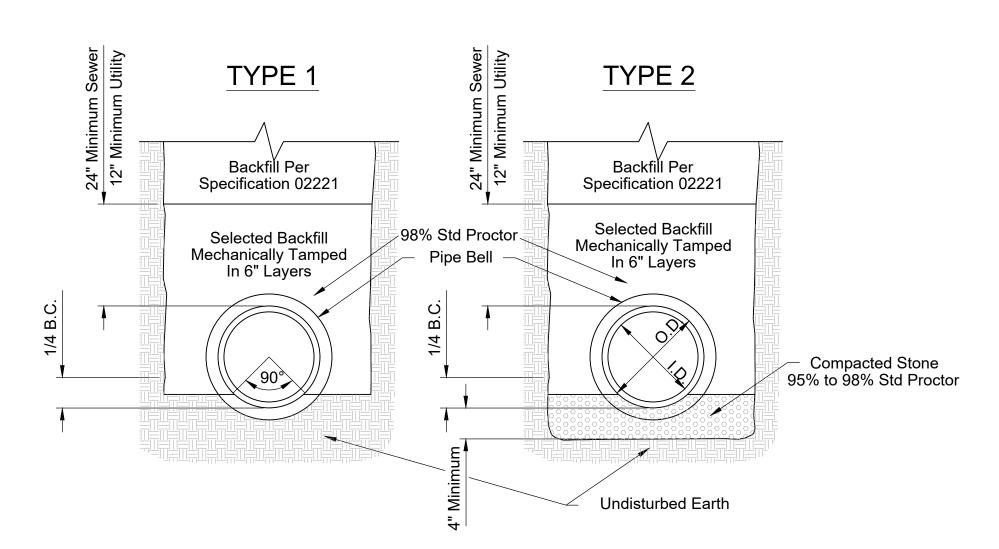


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SHEET C5.0

	Rip-Rap Outlet Protection Chart						
Outlet Pipe	Outlet Pipe Diameter, Do (inches)	25 Year Storm Outflow, (cfs)	Apron Length, La (ft)	Average Rock Diameter, d50 (feet)	Upstream Protection Width, Wu (feet)	Downstream Protection Width, Wd (feet)	
CULVERT 1	15	1.40	8	0.75	4	10	
CULVERT 2	15	5.63	8	0.75	4	10	
CULVERT 3	15	1.40	8	0.75	4	10	
CULVERT 4	15	3.36	8	0.75	4	10	
CULVERT 5	15	4.32	8	0.75	4	10	
CULVERT 6	15	5.35	8	0.75	4	10	
CULVERT 7	15	6.81	9	0.75	4	11	
ENTRANCE	18	1.17	10	0.75	6	11	

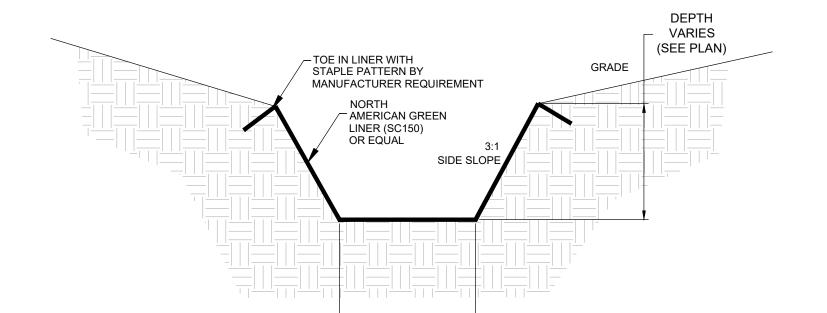
# RIP RAP OUTLET PROTECTION DETAIL NOT TO SCALE



NOTE:
1. TYPE 2 BEDDING USED IN MOIST AREAS (INDICATING

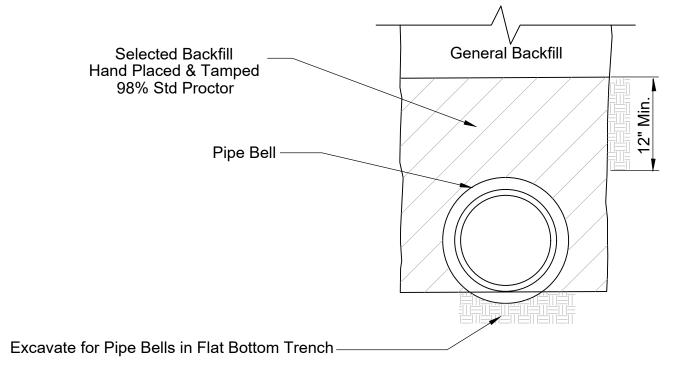
- GROUNDWATER) AND HIGH TRAFFIC AREAS.
  2. HAND SHAPED BOTTOM SHAPE BELL HOLES FOR USE IN DRY EARTH TRENCHES ONLY. APPLICABLE TO BOTH EARTH AND ROCK TRENCHES.
- 3. B.C. = OUTSIDE BELL CIRCUMFERENCE.

CLASS "C" BEDDING

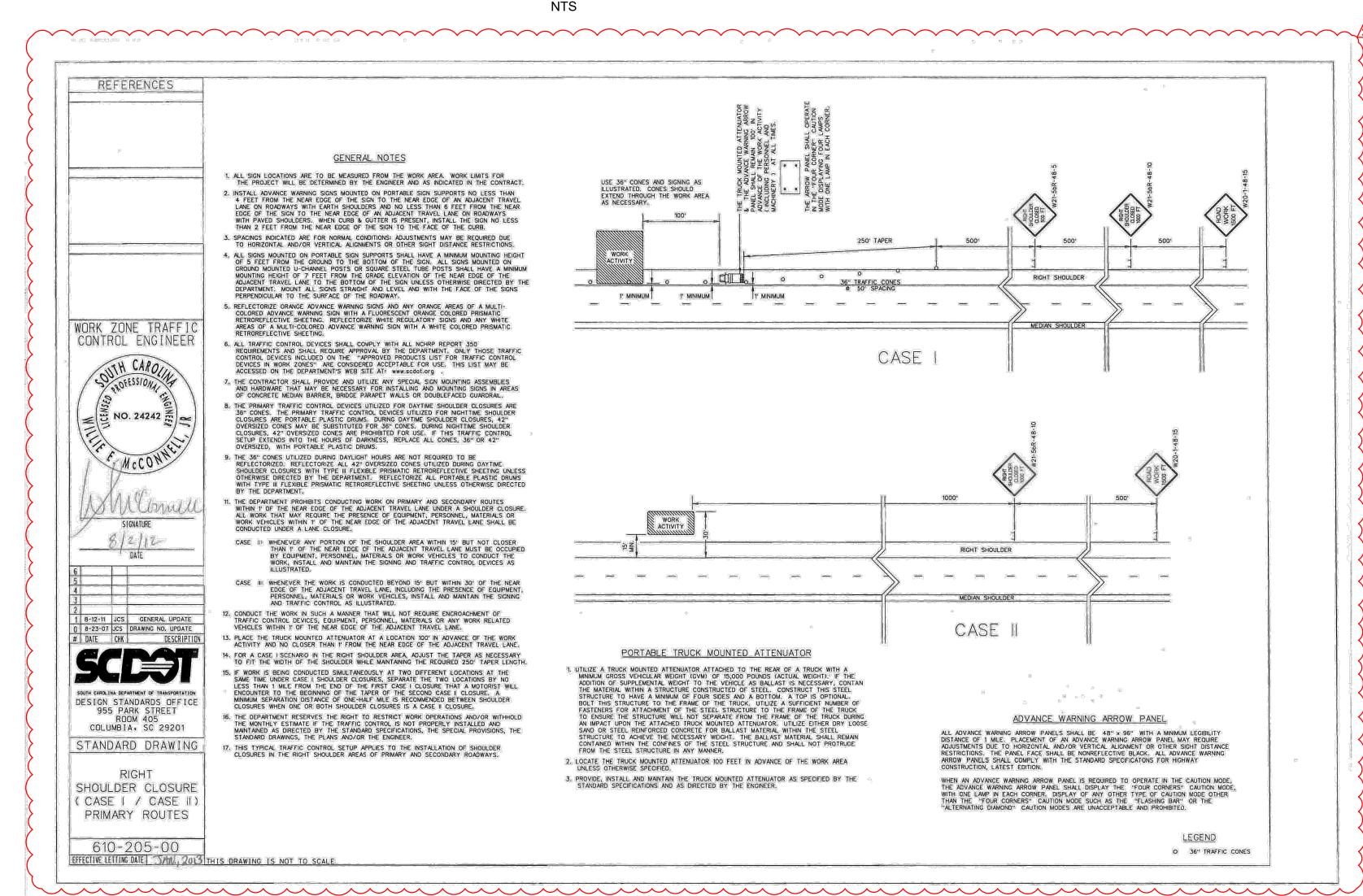


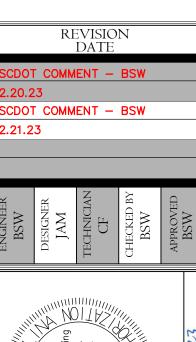
Swale Chart					
Swale #	10 Year Storm Outflow, (cfs)	Matting type or equal value			
1	5.36	SC150			
2	7.18	SC150			

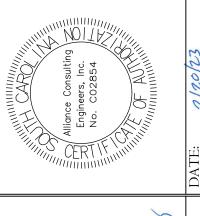
# TYPICAL SWALE

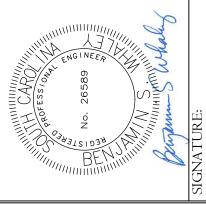


CLASS "D" BEDDING











NAGE DETAIL

CONSULT

Alliance C

STORM DRAINAGE DETA

2022 C-FUND ROAD
IMPROVEMENTS FOR THE
±750-LF THISTLE DOWN LANE
OFF S13-51(BRIDLEWOOD ROAD)
NEAR THE TOWN OF CHERAW
IN INCORPORATED
CHESTERFIELD COUNTY,
SOUTH CAROLINA

FILE NAME:

REFERENCE FILE:
22211-0013
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22211-0013 BASE.dwg PROJECT NO. 22211-0013

South Carolina Department of Health and Environmental Control SILT FENCE ARD DRAWING NO. SC-03 Page 1 of

FLAT-BOTTOM TRENCH DETAIL

COMPACTED

6-IN. <del>-</del>

V-SHAPED TRENCH DETAIL

RUNOFF

FOR STEEL POSTS

HEAVY DUTY PLASTIC TIE

HEAVY DUTY PLASTIC TIES

Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence. NOT TO SCALE

#### SILT FENCE - POST REQUIREMENTS Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following

- physical characteristics. Composed of a high strength steel with a minimum yield strength of 50,000 psi. Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" Weigh 1.25 pounds per foot (± 8%)
- Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.

Posts shall be equipped with projections to aid in fastening of filter fabric.

Install posts to a minimum of 24-inches. A minimum height of 1- to 2- inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground. 6. Post spacing shall be at a maximum of 6-feet on center.

#### SILT FENCE - FABRIC REQUIREMENTS Silt fence must be composed of woven geotextile filter fabric that consists of the following

Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other; Free of any treatment or coating which might adversely alter its physical properties after

Free of any defects or flaws that significantly affect its physical and/or filtering properties;

- Have a minimum width of 36-inches. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet
- #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.

i. Filter Fabric shall be installed at a minimum of 24-inches above the ground.

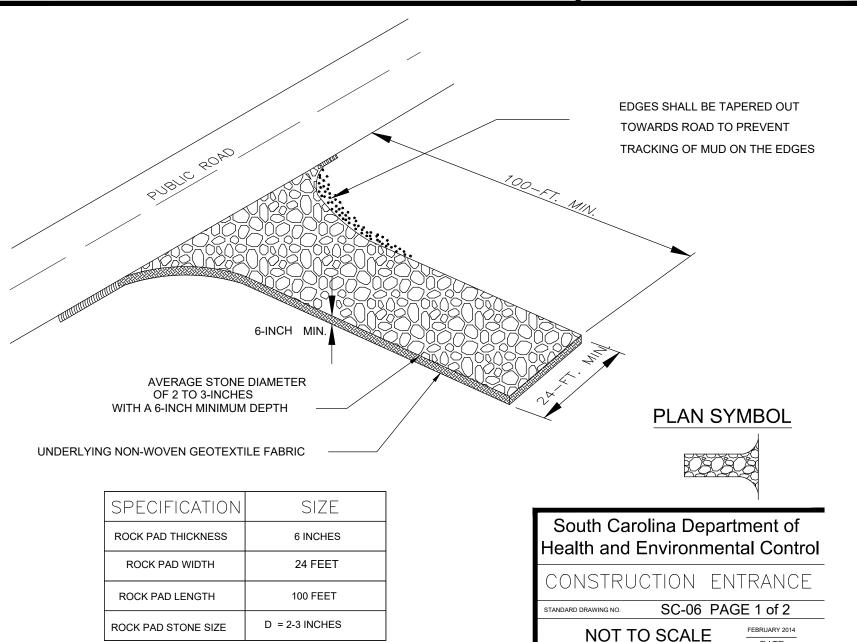
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench
- Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid

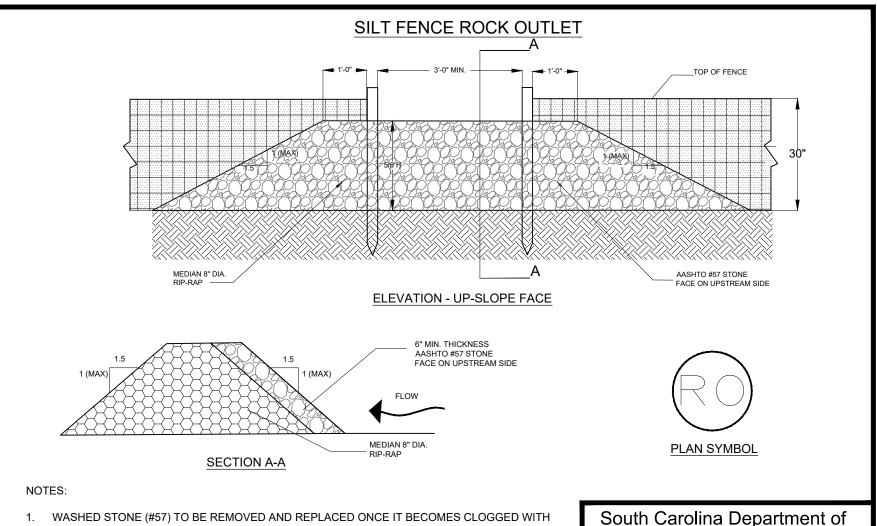
#### SILT FENCE - INSPECTION & MAINTENANCE 1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.

- Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces
- 3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when
- 4. Remove accumulated sediment when it reaches 1/3 the height of the silt
- 5. Removed sediment shall be placed in stockpile storage areas or spread thinly
- 6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence,
- 7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence.
- 8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

# South Carolina Department of Health and Environmental Contro

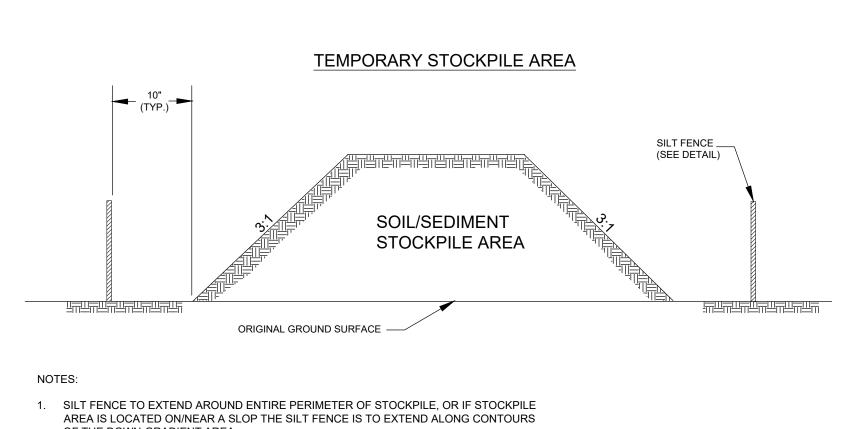
SILT FENCE				
STANDARD DRAWING NO.	SC-03	PAC	GE 2 of 2	
GENERAL	NOTE	ES	FEBRUARY 2014 DATE	





Health and Environmental Contro SILT FENCE ROCK OUTLET

andard drawing no. SC-14 PAGE 1 of NOT TO SCALE



- OF THE DOWN-GRADIENT AREA.
- IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
- SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.

4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

South Carolina Department of Health and Environmental Contro TEMPORARY STOCKPILE

tandard drawing no. SC-15 PAGE 1 of NOT TO SCALE

NOTES:

**CONSTRUCTION ENTRANCE - GENERAL NOTES** 

Stabilized construction entrances should be used at all points

public road or any impervious surfaces, such as parking lots.

where traffic will egress/ingress a construction site onto a

Install a non-woven geotextile fabric prior to placing any

Install a culvert pipe across the entrance when needed to

The entrance shall consist of 2-inch to 3-inch D50 stone

Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to

The edges of the entrance shall be tapered out towards the

Divert all surface runoff and drainage from the stone pad to

a sediment trap or basin or other sediment trapping structure.

road to prevent tracking at the edge of the entrance.

Limestone may not be used for the stone pad.

placed at a minimum depth of 6-inches.

accommodate site constraints.

provide positive drainage.

1. J-HOOK OR TIE-BACK SILT FENCE WILL BE ADDED ALONG SECTIONS OF SILT FENCE RUNNING PERPENDICULAR TO CONTOURS AND SPACES NO GREATER THAN 100-FEET APART - SEE PLAN VIEW ON SHEETS C5.0 - PHASE I EROSION AND SEDIMENT CONTROL PLAN SHEET

2. SEDIMENT TO BE REMOVED WHEN ACCUMULATIONS REACH 1/3 HEIGHT OF SILT FENCE

3. THE KEY TO FUNCTIONAL ROCK OUTLETS IS WEEKLY INSPECTIONS, ROUTINE

MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

2. IN AREAS OF PROTECTION TO THE EXISTING WETLANDS, A DOUBLE ROW OF SILT FENCE WILL BE INSTALLED AT THE EDGE OF THE WETLAND BUFFER AND THE ROWS OF SILT FENCE WILL BE A MINIMUM OF 3- FEET WHERE GRADING IS TIGHT OR 5-FEET IN AREAS WHERE SPACING ALLOWS.

#### CONSTR. ENTRANCE - INSPECTION & MAINTENANCE 1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal. 2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long

periods of wet weather. 4. Reshape the stone pad as necessary for drainage and runoff

1/2-inch or more of precipitation.

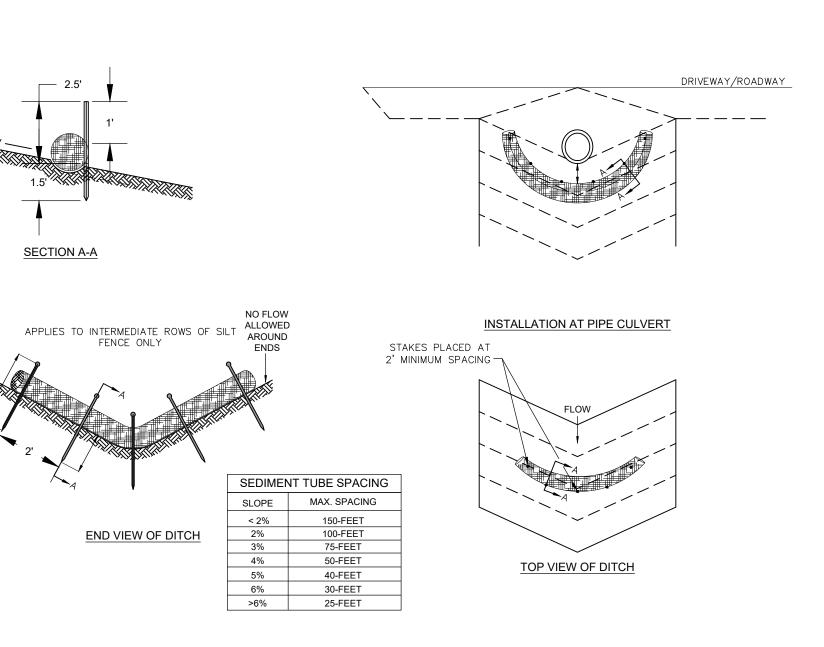
- 5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
- 6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
- 7. During maintenance activities, any broken pavement should be repaired immediately.
- 8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Contro

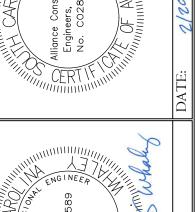
CONSTRUCTION ENTRANCE

SC-06 PAGE 2 of 2 GENERAL NOTES

APPLIES TO INTERMEDIATE ROWS OF SILT SEDIMENT TUBE SPACING END VIEW OF DITCH 50-FEET 40-FEET



CDHEC Comments - BSW 4/20/21





FILE NAME: C7.0.DWG SHEET EFERENCE FILE 22211-0013 BASE.dwg PROJECT NO.

22211-0013

# Sediment and Erosion Control Notes

#### **Standard Notes:**

- 1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
- 2. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
- ➤ Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
   ➤ Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within fourteen (14) days, temporary stabilization
- measures do not have to be initiated on that portion of the Site.
  3. All sediment and erosion control devices shall be inspected every seven (7) days. If site inspections identify BMPs that are damaged or are not operating effectively, maintenance must be performed as soon as practical or as reasonably possible and before the next storm event whenever practicable.
- 4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any sediments before being pumped back into any waters of the State.
- 5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
- 6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
- 7. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C Reg. 72-300 et seq. and SCR100000.
- 8. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
- 9. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
- 10.Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.

#### dditional Notes:

- A. Install permanent vegetative cover and the long-term erosion protection measures or structures as soon as practical in the development process.
- B. Provide for handling the increased runoff caused by changed soil and surface conditions. Use effective means to conserve existing on-site soil including the use of diversion ditches, grassed waterways and storm sewers.
- C. Place silt fence barriers at locations shown on plan. Silt barriers shall be maintained in place and in good condition until ground cover is established.
- D. All disturbed areas not paved shall be grassed. Use temporary plant cover, mulching, and/or
- structures to control runoff and protect areas subject to erosion during construction.

  E. Sediment ponds are to be excavated to original grades upon the accumulation of 1.5' on sediment stake placed at outlet.
- F. Provide a temporary stone splash pad at all fire hydrants or other points if discharge during testing of the water distribution system.
- G. Should Permanent Grassing requirements conflict with Landscape Plans, Landscape Plans supercede Permanent Grassing requirements.

#### **Grassing Specifications:**

A. All seed mixtures for the various seeding schedules shall be weighed and mixed to the proper proportions in the presence of the owner or the owner's representative.

	PERMANENT SEEDING			
	Maintained Turf (High Profile Lawn/Landscaped Areas)			
Planting Dates	Variety	Application Rate		
April 1 - September 15	Bermuda Triangle Blend by Pennington Seed, Inc.	125 LBS/ACRE		
	Slopes 4H:1V or Greater			
Planting Dates	Variety	Application Rate		
April 1 - September 15	Slopemaster Spring/Summer Mix by Pennington Seeding, Inc.	75 LBS/ACRE		
	Slopemaster Spring/Summer Mix Composition:			
	30% Hulled Sahara Bermudagrass (Cynodon dactylon)			
	30% Unhulled Sahara Bermudagrass (Cynodon dactylon)			
	15% Durana White Clover (Trifolium repens)			
	10% Brown Top Millet (Urochloa ramosa)			
	15% Weeping Lovegrass (Eragrostis curvula (Schrad.) Nees)			
September 15 - March 31	Slopemaster Fall/Winter Mix by Pennington Seed, Inc.	100 LBS/ACRE		
	Slopemaster Fall/Winter Mix Composition:			
	25% Unhulled Sericea Lespedeza (Lespedeza cuneata)			
	20% Unhulled Sahara Bermudagrass (Cynodon dactylon)			
	20% Greystone Tall Fescue (Schedonorus arundinaceus)			
	10% Durana White Clover (Trifolium repens)			
	10% Rye Grain (Lolium multiforum)			
	5% Weeping Lovegrass (Eragrostis curvula (Schrad.) Nees)			
	Slope 4H:1V or Less			
Planting Dates	Variety	Application Rate		
April 1 - September 15	Hulled Sahara Bermudagrass	75 LBS/ACRE		
September 15 - March 31	Unhulled Sahara Bermudagrass	100 LBS/ACRE		

B. Double seed all grassed swales, water ways, and embankments from top of bank to bottom of bank on all bank slopes less than 3:1.

MAINTENANCE SCHEDULE					
CONTROL ITEM	INSPECTION FREQUENCY	MAINTENANCE ACTIVITY	CONTROL ITEM	INSPECTION FREQUENCY	MAINTENANCE ACTIVITY
SILT FENCE	-AFTER EACH STORM EVENT -WHEN A FENCE SECTION IS TOPPED OR UNDERMINED -WEEKLY	-REPAIR FENCE TO ORIGINAL SPECIFICATIONS -ANY FENCE TOPPED OR UNDERMINED MUST BE REPLACED WITH A ROCK FILTER OUTLET -ADHERE TO MANUFACTURER'S RECOMMENDATIONS FOR REPLACING FENCE -REMOVE DEPOSITS WHEN ACCUMULATION REACHES 1/2 ABOVE GROUND HEIGHT OF FENCE	STORM DRAIN INLET PROTECTION ROCK CHECK DAMS	-AFTER EACH STORM EVENT -WEEKLY -AFTER EACH STORM EVENT -WEEKLY	-REPAIR TRAP TO ORIGINAL DIMENSIONS -REMOVE ALL SEDIMENT FROM TRAP -REPAIR TRAP TO ORIGINAL DIMENSIONS -REMOVE ALL SEDIMENT FROM FILTER ROCK
CONSTRUCTION EXIT	-AFTER EACH STORM EVENT -DAILY	-REPAIR TO ORIGINAL SPECIFICATIONS -ADD AASHTO #1 ROCK AS NECESSARY -ENSURE NO SEDIMENT IS DEPOSITED ON PUBLIC ROADWAYS. IF SO, REMOVE AND PLACE SEDIMENT IN DESIGNATED DISPOSAL AREA -MAINTAIN STOCKPILE OF ADDITIONAL ROCK FOR REPLENISHMENT. STOCKPILE HEIGHT MUST NOE EXCEED 35' NOR A 2:1 SLOPE	TEMPORARY/ PERMANENT GRASSING	-AFTER EACH STORM EVENT -WEEKLY	-ENSURE A MIN. UNIFORM RATE OF COVERAGE OF 70% IS PRESENT -REGRADE AND RE-SEED ALL EROSION GULLIES -REMOVE ACCUMULATED SEDIMENT DEPOSITS AND RE-SEED -REPLACE/ADD MULCH WHERE NECESSARY

# POST-CONSTRUCTION MAINTENANCE PLAN

- GRASS AROUND AND IN DETENTION BASIN WILL BE MOWED BI-WEEKLY.
- TREES WILL BE REMOVED FROM WITHIN THE DETENTION BASIN
- TRASH WILL BE REMOVED FROM WITHIN AND AROUND THE DETENTION BASIN MONTHLY.
- OUTLET STRUCTURES AND/OR PIPES WILL BE CLEANED AND REPAIRED BI-WEEKLY.
- SEDIMENT ACCUMULATION TO BE REMOVED FROM DETENTION BASIN AFTER 4-INCHES OF BUILDUP OR ONCE A YEAR, WHICHEVER COMES
- DETENTION BASIN BOTTOM TO BE REGRADED TOWARDS OUTLET STRUCTURES AFTER SEDIMENTATION REMOVAL OR WHEN NECESSARY

UPON MONTHLY INSPECTIONS.

- DISCHARGE POINT TO BE CLEANED, CLEARED AND REPAIRED AS NECESSARY UPON MONTHLY INSPECTIONS.
- EMERGENCY SPILLWAY TO BE CLEANED AND REPAIRED WHEN NECESSARY UPON MONTHLY INSPECTION.
- EROSION ON SIDE SLOPES OF DETENTION BASIN AND/OR EMERGENCY SPILLWAYS TO BE REGRADED AS NECESSARY UPON MONTHLY INSPECTION.

#### DESCRIPTION:

SEDIMENT TUBES ARE ELONGATED TUBES OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBER, OR HARDWOOD MULCH. STRAW, PINE NEEDLES, AND LEAF MULCH-FILLED SEDIMENT TUBES ARE NOT PERMITTED UNDER THIS SPECIFICATION.

WHEN AND WHERE TO USE IT:
INSTALL SEDIMENT TUBES ALONG CONTOURS, IN DRAINAGE CONVEYANCE SWALES, AND AROUND INLETS TO HELP REDUCE THE EFFECTS
OF SOIL EROSION BY ENERGY DISSIPATION.

### MATERIALS:

PRODUCED BY A MANUFACTURER EXPERIENCED IN SEDIMENT TUBE MANUFACTURING
 COMPOSED OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBERS, HARDWOOD MULCH, OR A MIX OF

SEDIMENT TUBES FOR DITCH CHECKS AND TYPE A INLET STRUCTURE FILTERS EXHIBIT THE FOLLOWING PROPERTIES:

- THESE MATERIALS ENCLOSED BY A FLEXIBLE NETTING MATERIAL

  3. UTILIZES OUTER NETTING THAT CONSISTS OF SEAMLESS, HIGH-DENSITY POLYETHYLENE, PHOTODEGRADABLE MATERIALS TREATED

  WITH THAT THE PROPERTY OF THE PROP
- WITH ULTRAVIOLET STABILIZERS OR SEAMLESS, HIGH-DENSITY POLYETHYLENE, NON-DEGRADABLE MATERIALS

  4. DIAMETER RANGING FROM 18-INCHES TO 24-INCHES
- CURLED EXCELSIOR WOOD OR NATURAL COCONUT ROLLED EROSION CONTROL PRODUCTS (RECPs) THAT ARE ROLLED UP TO CREATE A SEDIMENT TUBE ARE <u>NOT ALLOWED</u> UNDER THIS SPECIFICATION.
- 6. STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES, AND LEAF MULCH ARE <u>NOT ALLOWED</u> UNDER THIS SPECIFICATION.

#### 1. INSTALLATION: 1. INSTALL OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS.

- THE MINIMUM DIAMETER SHALL BE 18 INCHES.
   SEDIMENT TUBES SHOULD BE STAKED USING WOODEN STAKES (2-INCH x 2-INCH) OR STEEL POSTS (STANDARD "U" OR "T" SECTIONS WITH A MINIMUM WEIGHT OF 1.25 POUNDS PER FOOT), A MINIMUM OF 48-INCHES IN LENGTH, PLACED ON 2-FOOT CENTERS.
- 4. STAKES SHOULD BE INTERTWINED WITH THE OUTER MESH ON THE DOWNSTREAM SIDE AND DRIVEN IN THE GROUND TO A MINIMUM DEPTH OF 1.5 FEET, LEAVING LESS THAN 1 FOOT OF STAKE EXPOSED ABOVE THE SEDIMENT TUBE. ALWAYS REFER TO THE MANUFACTURER'S RECOMMENDATIONS FOR THE STAKING DETAIL.
- 5. INSTALL ALL SEDIMENT TUBES INSURING THAT NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE SEDIMENT TUBE. THE ENDS OF ADJACENT SEDIMENT TUBES SHOULD BE OVERLAPPED 6-INCH TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. IN NO SITUATIONS SHOULD SEDIMENT TUBES BE STACKED ON TOP OF ONE ANOTHER.
- 6. CONSTRUCT A TRENCH THAT IS A MINIMUM 20% OF THE TUBE DIAMETER TO INSTALL THE TUBE IN. THIS IS TO ENSURE NO GAPS AT THE BOTTOM.
- 7. AVOID DAMAGE TO SEDIMENT TUBES WHILE INSTALLING THEM. IF THE SEDIMENT TUBE BECOMES DAMAGED DURING INSTALLATION, A STAKE SHOULD BE PLACED ON BOTH SIDES OF THE DAMAGED AREA TERMINATING THE TUBE SEGMENT AND A NEW TUBE SEGMENT
- SHOULD BE INSTALLED.

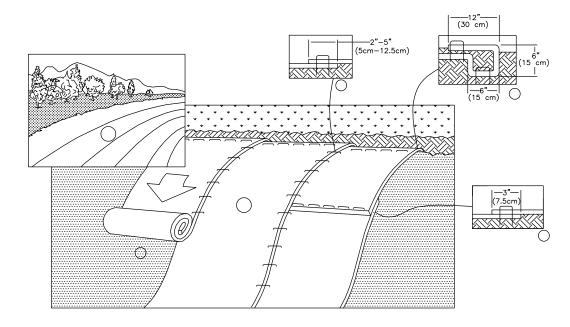
  8. SEDIMENT TUBES SHOULD BE INSTALLED IN SWALES OR DRAINAGE DITCHES PERPENDICULAR TO THE FLOW OF WATER
- 9. SEDIMENT TUBES SHOULD CONTINUE UP THE SIDE SLOPES A MINIMUM OF 1-FOOT ABOVE THE DESIGN FLOW DEPTH. SEDIMENT TUBE SHALL BE INSTALLED TO ALLOW FLOW OF WATER OVER THE MIDDLE SECTION PRIOR TO GOING AROUND THE ENDS.
- 10. SEDIMENT TUBES SHOULD BE SPACED ACCORDING TO THE ABOVE LISTED SEDIMENT TUBE SPACING TABLE.11. SEDIMENT TUBE LENGTH SELECTED SHOULD MINIMIZE THE NUMBER OF SEDIMENT TUBES NEEDED TO SPAN THE WIDTH OF THE
- SEDIMENT TUBE IS PREFERRED COMPARED TO TWO OVERLAPPING 10-FOOT SEDIMENT TUBES.

  12. SEDIMENT TUBES FOR DITCH CHECKS SHOULD REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

DRAINAGE CONVEYANCE. IF THE DITCH CHECK LENGTH (PERPENDICULAR TO THE WATER FLOW) IS 15 FEET, THEN ONE 15-FOOT

#### NSPECTION AND MAINTENANCE:

- CHECK DAMS SHOULD BE INSPECTED EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/2-INCHES OR MORE OF RAIN TO ENSURE CONTINUED EFFECTIVENESS.
- LARGE DEBRIS, TRASH, AND LEAVES SHOULD BE REMOVED.
- IF EROSION CAUSES THE EDGES TO FALL TO A HEIGHT EQUAL TO OR BELOW THE HEIGHT OF THE CENTER, REPAIRS SHOULD BE MADE IMMEDIATELY.
- 4. REMOVE ACCUMULATED SEDIMENT FROM THE UPSTREAM SIDE OF THE SEDIMENT TUBE WHEN THE SEDIMENT HAS REACHED A HEIGHT OF APPROXIMATELY ONE-THIRD OF THE EXPOSED HEIGHT OF THE TUBE (MEASURED AT THE CENTER).
- 5. ACCUMULATED SEDIMENT SHOULD BE REMOVED PRIOR TO REMOVING SEDIMENT TUBES.
- SEDIMENT TUBE REMOVAL SHOULD BE COMPLETED ONLY AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETELY STABILIZED. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH GRAVEL, STONE, SEDIMENT TUBES, OR OTHER MATERIALS HAVE BEEN REMOVED.



PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION
OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL—O—SEED DO NOT SEED PREPARED AREA. CELL—O—SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH
WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTENDED BEYOND THE UP—SLOPE PORTION OF THE TRENCH. ANCHOR THE

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.

3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING

ON RECP'S TYPE.

5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

NOTE:
\*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

EROSION CONTROL BLANKET INSPECTION AND MAINTENANCE

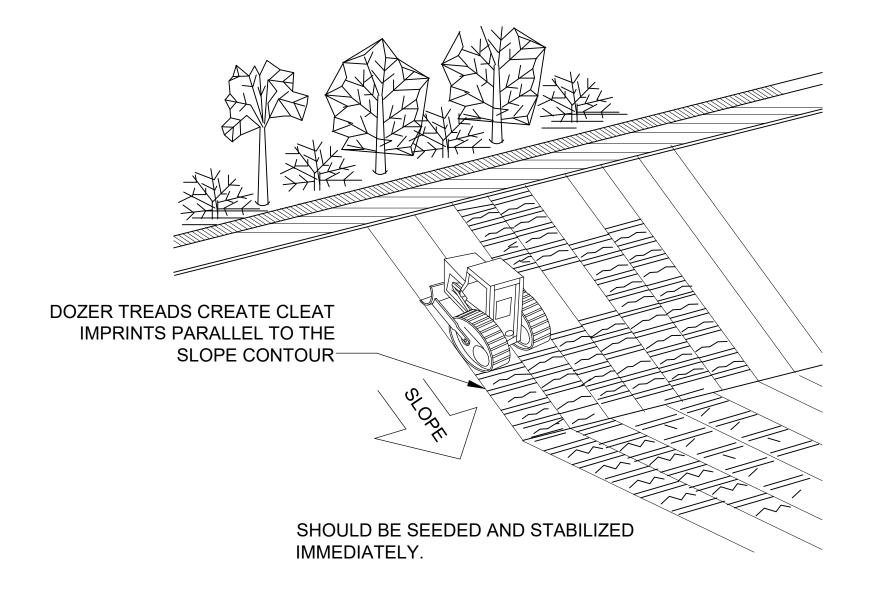
Inspect areas protected by ECBs for dislocation or failure every 7 calendar days.

Conduct regular inspections until grasses are firmly established.

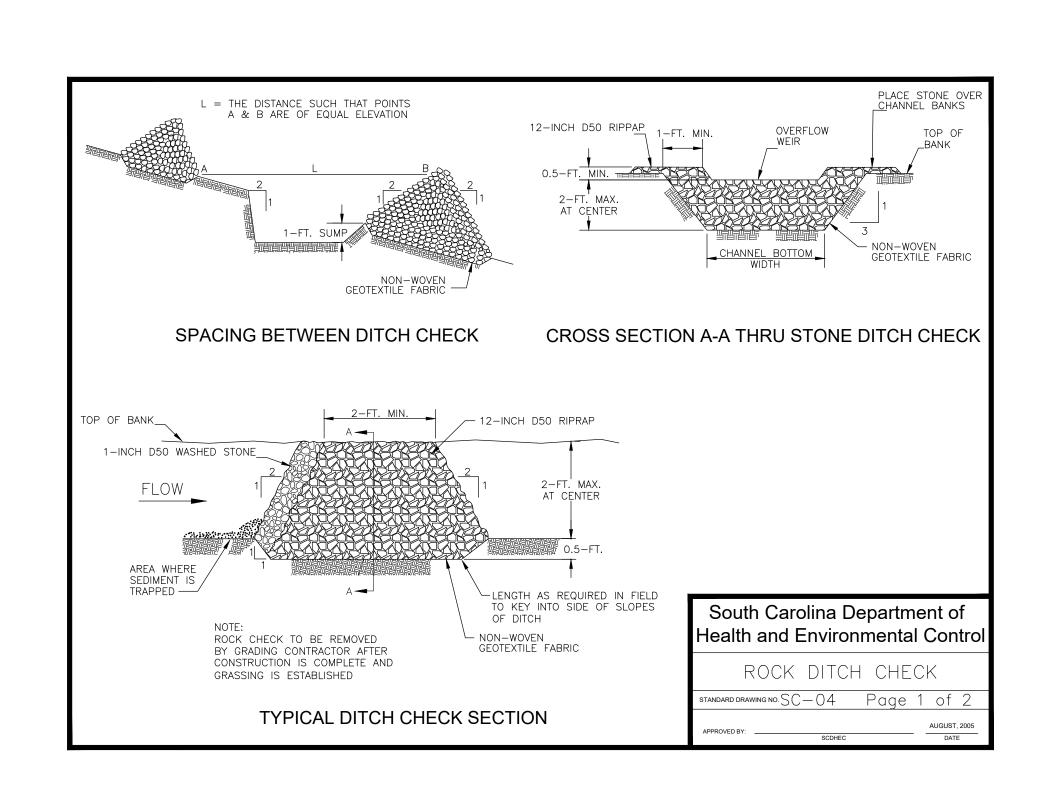
Adhere to the pinning or stapling pattern as shown on the Manufacturer's installation sheet. If there is evidence that the ECB is not securely fastened to the soil, require extra pins or staples to inhibit the ECB from becoming dislodged.

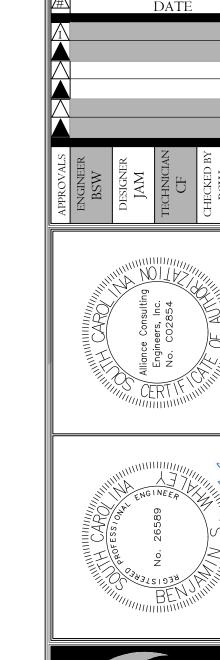
If washout or breakage occurs, repair all damaged areas immediately by restoring the soil on slopes or channels to its finished grade, re-apply fertilizer and seed, and replacing the appropriate ECB material as needed.

SLOPE INSTALLATION NOT TO SCALE



TRACKING
(SCDHEC DETAIL EC-01)
NOT TO SCALE





LLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.

> ROSION AND SEDIMENT CONTROL DETAILS (SHEET 2, OF 2)

> > SET THISTLE DOWN LANE
> >
> > 3-51(BRIDLEWOOD ROAD)
> >
> > THE TOWN OF CHERAW
> >
> > N INCORPORATED
> >
> > ESTERFIELD COUNTY,

FILE NAME:
C7.0 DWG

REFERENCE FILE:
22211-0013

C7.1

BASE.dwg
PROJECT NO.
22211-0013