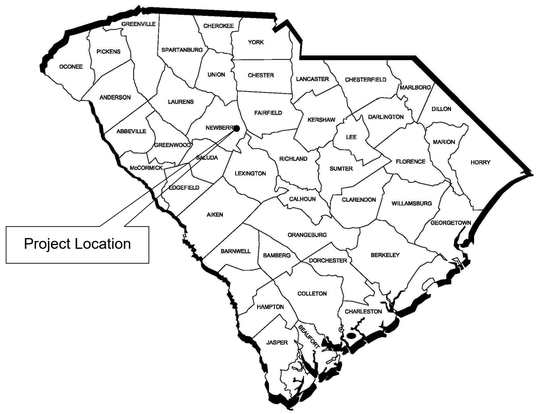
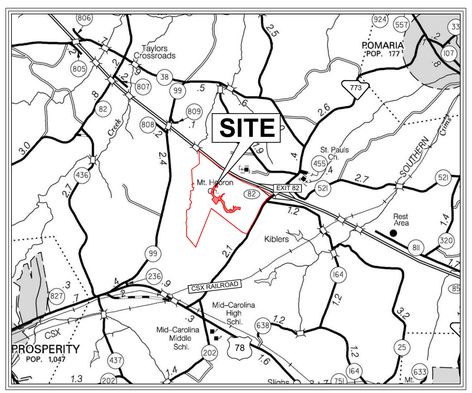
PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA





LOCATION MAP

1.0 0.5 0 1.0 3.0

(IN MILES)
1 inch = 1 mile

SHEET INDEX

UTILITY PROVIDER CONTACTS

WATER AND WASTEWATER PROVIDER:
CONTACT: MR. DANIEL QUATTLEBAUM, MANAGER
NEWBERRY COUNTY WATER & SEWER AUTHORITY
TELEPHONE: (803) 276-7020

ELECTRICAL UTILITY PROVIDER:
CONTACT: MR. JASON MERCHANT, MANAGER OF ENGINEERING & OPERATIONS
NEWBERRY ELECTRIC COOPERATIVE, INC.
TELEPHONE: (803) 276-1121
FAX: (803) 276-4121

NATURAL GAS PROVIDER:
CONTACT: MR. STAN BRYSON, GENERAL MANAGER
CLINTON-NEWBERRY NATURAL GAS AUTHORITY
TELEPHONE: (803) 276-1550
FAX: (803) 276-9096

TELECOMMUNICATIONS PROVIDER:
CONTACT: MR. IKE BYRD, REGIONAL DIRECTOR EXTERNAL AFFAIRS
AT&T
TELEPHONE: (803) 401-2214
FAX: (803) 765-2674

NEWBERRY COUNTY COUNCIL MEMBERS

MR. NICK SHEALY, CHAIRMAN
MR. KARL SEASE, VICE-PRESIDENT
MR. LEON FULMER JR.
MR. TODD JOHNSON
MR. TRAVIS REEDER
MR. JOHNNY MACK SCURRY
MR. STUART SMITH

DEVELOPER INFORMATION

CONTACT: MR. RICK FARMER, SCCED
ECONOMIC DEVELOPMENT DIRECTOR
P.O. BOX 381
NEWBERRY, SOUTH CAROLINA 29108
TELEPHONE: (803) 321-2042
FAX: (803) 321-2094
EMAIL: RFARMER@NEWBERRYCOUNTY.NET

ENGINEER INFORMATION

CONTACT: MR. STEVE WHALEY, P.E.
SENIOR PROJECT MANAGER
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South Carolina 811 Call 811 Before you Dig

REVISION DATE

DATE: JULY 18, 2025

SIGNATURE:

ALLIANCE CONSULTING ENGINEERS

ALLIANCE CONSULTING ENGINEERS, INC.
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PROJECT
PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA
NEWBERRY COUNTY SOUTH CAROLINA

JULY 2025

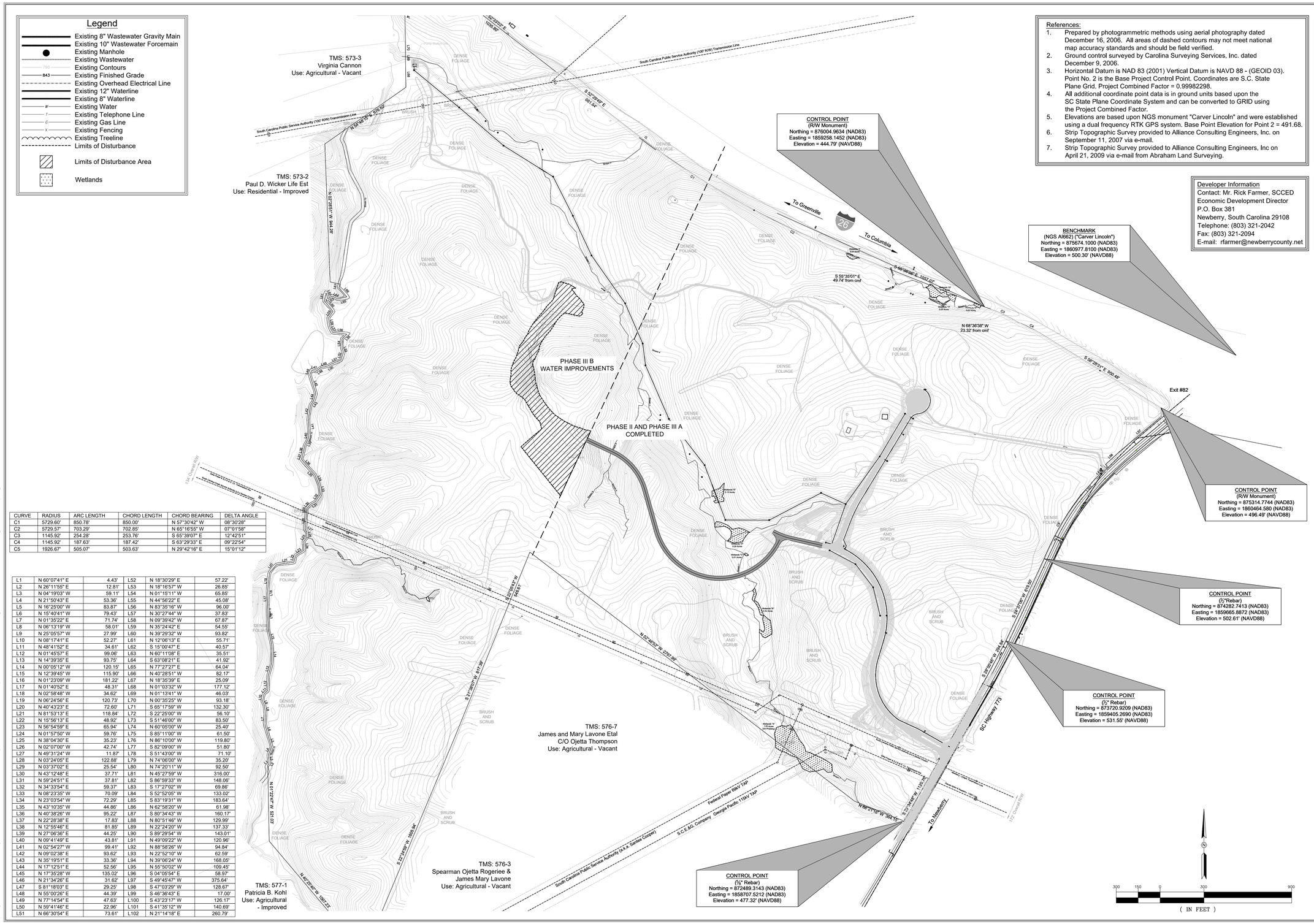
Project No. 17113-0036

DWG NO. 01.514-D09

July 16, 2025 - 1:05:45 PM S:\Projects\17113-0036 Phase IIA & Phase III Rdway & Wastewater Infrastructure Improve Mid-Carolina Com. Park\dwg\Construction Plans\ C1-Overall Existing Conditions Map.dwg

Legend

- Existing 8" Wastewater Gravity Main
- Existing 10" Wastewater Forcemain
- Existing Manhole
- Existing Wastewater
- 790 Existing Contours
- 843 Existing Finished Grade
- Existing Overhead Electrical Line
- Existing 12" Waterline
- Existing 8" Waterline
- W Existing Water
- T Existing Telephone Line
- G Existing Gas Line
- X Existing Fencing
- Existing Treeline
- Limits of Disturbance
- Limits of Disturbance Area
- Wetlands



CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	5729.60'	850.78'	850.00'	N 57°30'42" W	08°30'28"
C2	5729.57'	703.29'	702.85'	N 65°16'55" W	07°01'58"
C3	1145.92'	254.28'	253.76'	S 65°39'07" E	12°42'51"
C4	1145.92'	187.63'	187.42'	S 63°29'33" E	09°22'54"
C5	1926.67'	505.07'	503.63'	N 29°42'16" E	15°01'12"

L1	N 60°07'41" E	4.43'	L52	N 18°30'29" E	57.22'
L2	N 26°11'55" E	12.81'	L53	N 18°16'57" W	26.85'
L3	N 04°19'03" W	59.11'	L54	N 01°15'11" W	65.85'
L4	N 21°50'43" E	53.36'	L55	N 44°56'22" E	45.08'
L5	N 16°25'00" W	83.87'	L56	N 83°35'16" W	96.00'
L6	N 15°40'41" W	79.43'	L57	N 30°27'44" W	37.83'
L7	N 01°35'22" E	71.74'	L58	N 09°39'42" W	67.87'
L8	N 06°13'19" W	58.01'	L59	N 35°24'42" E	54.55'
L9	N 25°06'57" W	27.99'	L60	N 39°29'32" W	93.82'
L10	N 08°17'41" E	52.27'	L61	N 12°06'13" E	55.71'
L11	N 48°41'52" E	34.61'	L62	S 15°00'47" E	40.57'
L12	N 01°45'57" E	99.06'	L63	N 60°11'08" E	35.51'
L13	N 14°39'35" E	93.75'	L64	S 63°08'21" E	41.92'
L14	N 00°05'12" W	120.15'	L65	N 77°27'27" E	64.04'
L15	N 12°39'45" W	115.90'	L66	N 40°28'51" W	82.17'
L16	N 01°23'09" W	181.22'	L67	N 18°35'39" E	25.09'
L17	N 01°40'52" E	48.31'	L68	N 01°03'32" W	177.12'
L18	N 02°58'48" W	34.82'	L69	N 01°13'41" W	46.03'
L19	N 06°24'56" E	120.73'	L70	N 00°35'25" W	93.18'
L20	N 40°43'23" E	72.60'	L71	S 65°17'59" W	132.30'
L21	N 81°53'13" E	118.84'	L72	S 22°25'00" W	56.10'
L22	N 15°56'13" E	48.92'	L73	S 51°46'00" W	83.50'
L23	N 56°54'59" E	65.94'	L74	N 60°05'00" W	25.40'
L24	N 01°57'50" W	59.76'	L75	S 85°11'00" W	61.50'
L25	N 38°04'30" E	35.23'	L76	N 86°10'00" W	119.80'
L26	N 02°07'00" W	42.74'	L77	S 82°09'00" W	51.80'
L27	N 49°31'24" W	11.87'	L78	S 51°43'00" W	71.10'
L28	N 03°24'05" E	122.88'	L79	N 74°06'00" W	35.20'
L29	N 03°37'02" E	25.54'	L80	N 74°20'11" W	92.50'
L30	N 43°12'48" E	37.71'	L81	N 45°27'59" W	316.00'
L31	N 59°24'51" E	37.81'	L82	S 86°59'33" W	148.06'
L32	N 34°33'54" E	59.37'	L83	S 17°27'02" W	69.86'
L33	N 08°23'35" W	70.09'	L84	S 52°52'05" W	133.02'
L34	N 23°03'54" W	72.29'	L85	S 83°19'31" W	183.64'
L35	N 43°10'35" W	44.86'	L86	N 62°58'20" W	61.98'
L36	N 40°38'26" W	95.22'	L87	S 80°34'43" W	160.17'
L37	N 22°28'38" E	17.83'	L88	N 80°51'46" W	129.99'
L38	N 12°55'46" E	81.85'	L89	N 22°24'20" W	137.33'
L39	N 27°06'36" E	44.25'	L90	S 89°29'54" W	143.01'
L40	N 09°41'49" E	43.81'	L91	N 49°09'22" W	120.96'
L41	N 02°54'27" W	99.41'	L92	N 88°58'26" W	94.84'
L42	N 09°02'38" E	93.62'	L93	N 22°52'10" W	62.59'
L43	N 35°19'51" E	33.36'	L94	N 39°06'24" W	168.05'
L44	N 17°12'51" E	52.56'	L95	N 55°50'02" W	109.45'
L45	N 17°35'28" W	135.02'	L96	S 04°05'54" E	58.97'
L46	N 21°34'26" E	31.62'	L97	S 49°45'47" W	375.64'
L47	S 81°18'03" E	29.25'	L98	S 47°03'29" W	128.67'
L48	N 55°00'26" E	44.39'	L99	S 46°36'43" E	17.00'
L49	N 77°14'54" E	47.63'	L100	S 43°23'17" W	126.17'
L50	N 59°41'46" E	22.96'	L101	S 41°35'12" W	140.69'
L51	N 66°30'54" E	73.61'	L102	N 21°14'18" E	260.79'

References:

1. Prepared by photogrammetric methods using aerial photography dated December 16, 2006. All areas of dashed contours may not meet national map accuracy standards and should be field verified.
2. Ground control surveyed by Carolina Surveying Services, Inc. dated December 9, 2006.
3. Horizontal Datum is NAD 83 (2001) Vertical Datum is NAVD 88 - (GEOID 03). Point No. 2 is the Base Project Control Point. Coordinates are S.C. State Plane Grid. Project Combined Factor = 0.99982298.
4. All additional coordinate point data is in ground units based upon the SC State Plane Coordinate System and can be converted to GRID using the Project Combined Factor.
5. Elevations are based upon NGS monument "Carver Lincoln" and were established using a dual frequency RTK GPS system. Base Point Elevation for Point 2 = 491.68.
6. Strip Topographic Survey provided to Alliance Consulting Engineers, Inc. on September 11, 2007 via e-mail.
7. Strip Topographic Survey provided to Alliance Consulting Engineers, Inc on April 21, 2009 via e-mail from Abraham Land Surveying.

Developer Information
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Economic Development Director
P.O. Box 381
Newberry, South Carolina 29108
Telephone: (803) 321-2042
Fax: (803) 321-2094
E-mail: rfarmer@newberrycounty.net

REVISION DATE:

APPROVALS: ENGINEER BSW; DESIGNER JAV/BSW; TECHNICIAN ITH; CHECKED BY KMC/DMN; APPROVED BSW

HILDS CERTIFICATE OF AUTHORIZATION — Alliance Consulting Engineers, Inc. No. C028254 — CAROLINA

DATE: JULY 18, 2025

HILDS BENJAMIN STANLEY — LICENSED PROFESSIONAL ENGINEER — No. 26589 — CAROLINA

SIGNATURE:

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • fax (803) 779-2079

SHEET: OVERALL EXISTING CONDITIONS MAP AND DEMOLITION PLAN

SCALE: 1" = 300'

DATE: JULY 2025

PROJECT: PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA

NEWBERRY COUNTY — SOUTH CAROLINA

FILE NAME: C1.dwg

REFERENCE FILE: BASE.DWG

PROJECT NO. 17113-0036

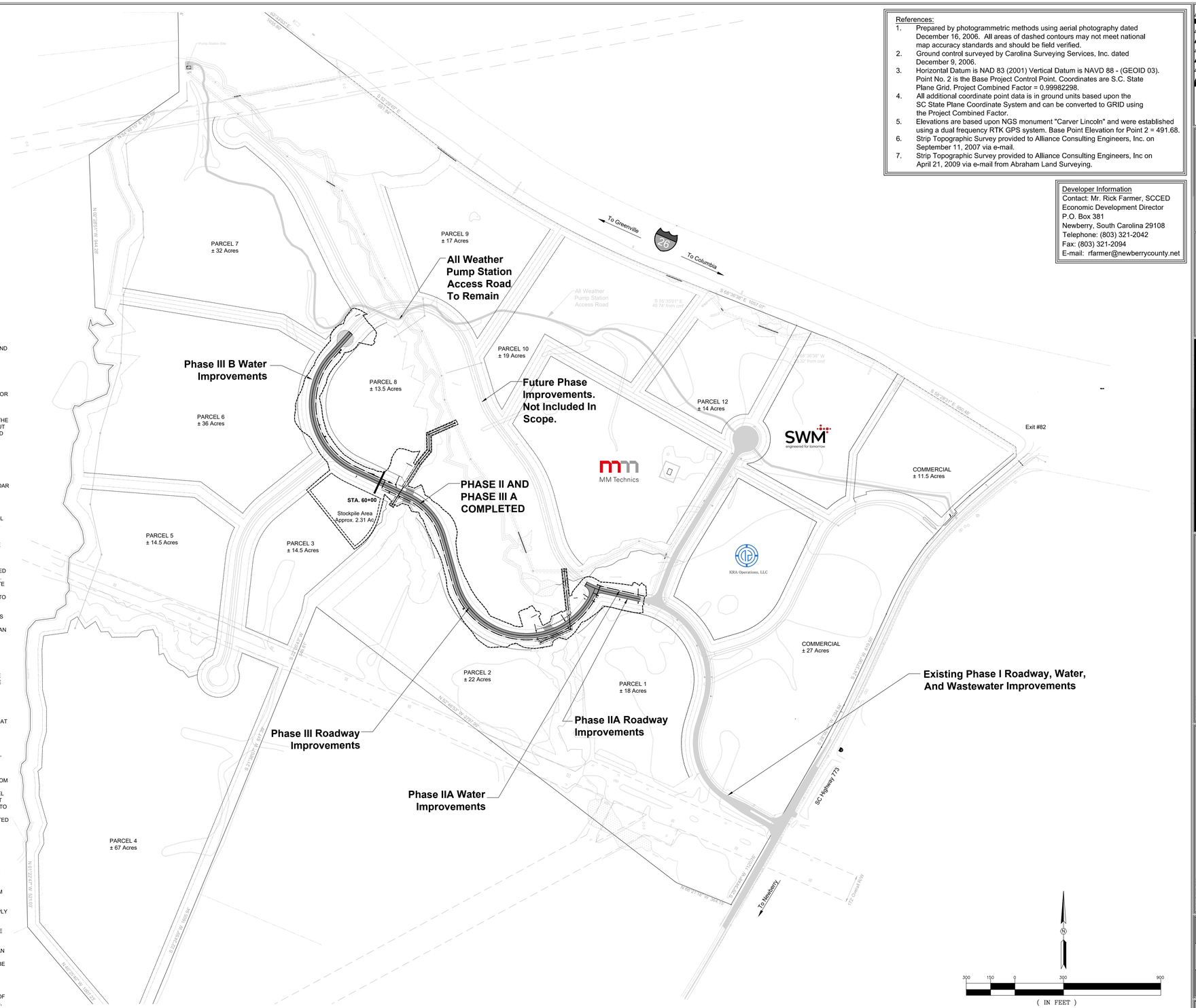
SHEET C1

DWG NO. 01,514-D09

July 16, 2025 - 1:08:43 PM S:\Projects\17113-0036 Phase IIA & Phase III Rdwy & Wastewater Infrastructure Improve Mid-Carolina Com. Parkway\Construction Plans\ C2-Overall Site Plan.dwg

Legend

- Proposed 8" Wastewater Gravity Main
- Proposed Manhole
- Existing Wastewater
- Existing Manhole
- Wetlands
- Limits of Disturbance
- No Cut-Fill Buffer
- Setback
- Proposed Roadway Centerline
- Proposed Edge of Pavement
- Proposed Right-of-Way
- Proposed 12" Waterline
- Existing Treeline
- New Pavement
- Existing Pavement



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Developer Information
Contact: Mr. Rick Farmer, SCCED
Economic Development Director
P.O. Box 381
Newberry, South Carolina 29108
Telephone: (803) 321-2042
Fax: (803) 321-2094
E-mail: rfarmer@newberrycounty.net

STANDARD NOTES

PERMITS / LICENSES

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

1. 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 HYDROSEEDING. 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 PERMITEE 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 STABILIZATION IS REACHED.
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 SOURCE.
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 DISCHARGE.
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;
   - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   - 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 BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
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 SUBMITTED TO NEWBERRY COUNTY FOR DETENTION STRUCTURE(S) ON THIS SITE. THE SURVEY(S) SHOULD SHOW GRADES, CONTOURS, AND DEPTHS FOR ALL STRUCTURE(S) AND SHOULD INCLUDE THE ELEVATIONS AND DIMENSIONS OF ALL OUTLET STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPES, ORIFICES, RISERS, WEIRS, AND EMERGENCY SPILLWAYS

REVISION	DATE

APPROVALS	
ENGINEER	BSW
DESIGNER	JAW/ BSW
TECHNICIAN	ITH
CHECKED BY	KMC/DMN
APPROVED	BSW

HILDS CERTIFICATE OF AUTHORIZATION
CAROLINA
Alliance Consulting Engineers, Inc.
No. C028254

DATE: JULY 18, 2025

HILDS BENJAMIN S.
CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 26589

SIGNATURE:

ALLIANCE CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

SHEET: OVERALL SITE PLAN

SCALE: 1" = 300'

DATE: JULY 2025

PROJECT: PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA

NEWBERRY COUNTY SOUTH CAROLINA

FILE NAME: C2.DWG	SHEET
REFERENCE FILE: BASE.DWG	C2
PROJECT NO. 17113-0036	

DWG NO. 01,514-D09

Legend

- Proposed 8" Wastewater Gravity Main
- Proposed Manhole
- Existing Wastewater
- Existing Manhole
- Wetlands
- Existing Contours
- Proposed Contours
- Existing Overhead Electrical Line
- Limits of Disturbance
- Proposed Roadway Centerline
- Proposed Edge of Pavement
- Proposed Right-of-Way
- Proposed 12" Waterline
- Existing Water
- Existing Telephone Line
- Existing Gas Line
- Existing Fencing
- Existing Treeline
- New Treeline
- New Pavement

SF = Silt Fence
CE = Construction Entrance
IP = Inlet Protection
= GreenArmor Channel Matting
= Erosion Control Matting

CONTRACTOR NOTES:
EFFORTS SHOULD BE MADE TO AVOID THE REMOVAL OF LARGE TREES AT THE EDGES OF CONSTRUCTION CORRIDORS. DISTURBED AREAS SHOULD BE RESEEDED WITH SEED MIXTURES THAT ARE BENEFICIAL TO WILDLIFE. FESCUE-BASED MIXTURES SHOULD BE AVOIDED; FESCUE IS INVASIVE AND PROVIDES LITTLE BENEFIT TO WILDLIFE. NATIVE ANNUAL SMALL GRAINS APPROPRIATE FOR THE SEASON ARE PREFERRED AND RECOMMENDED. WHERE FEASIBLE, USE WOODY DEBRIS AND LOGS FROM CORRIDOR CLEARING TO ESTABLISH BRUSH PILES AND DOWNED LOGS AT THE EDGE OF THE CLEARED RIGHT-OF-WAY TO IMPROVE HABITAT FOR WILDLIFE. CORRIDOR MAINTENANCE SHOULD BE MINIMIZED, AND MOWING SHOULD BE PROHIBITED BETWEEN APRIL 1 AND OCTOBER 1 IN ORDER TO REDUCE IMPACTS TO NESTING WILDLIFE. ADDITIONALLY, HERBICIDES SHOULD NOT BE USED IN WETLAND AREAS OR NEAR STREAMS.

References:
1. Prepared by photogrammetric methods using aerial photography dated December 16, 2006. All areas of dashed contours may not meet national map accuracy standards and should be field verified.
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5. Elevations are based upon NGS monument "Carver Lincoln" and were established using a dual frequency RTK GPS system. Base Point Elevation for Point 2 = 491.68.
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Developer Information
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Economic Development Director
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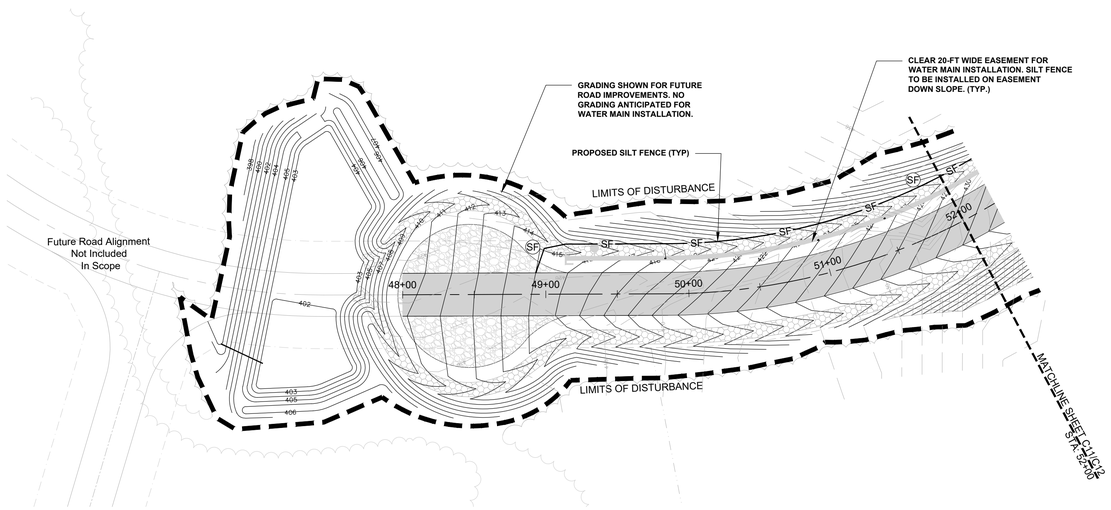
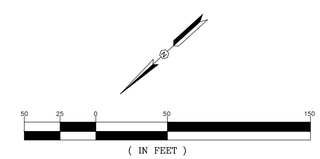
Fax: (803) 321-2094
E-mail: rfarmer@newberrycounty.net





Phase III Grading, Storm Drainage and Erosion and Sediment Control Plan
(STA: 48+00 TO 52+00)

Scale: Horiz. 1"=50'

REVISION	DATE

APPROVALS
ENGINEER BSW
DESIGNER JAV/BSW
TECHNICIAN ITH
CHECKED BY KMC/DMN
APPROVED BSW

HILDA CAROLINA BENJAMIN
LICENSED PROFESSIONAL ENGINEER
No. 26589
SIGNATURE:

HILDA CAROLINA BENJAMIN
CERTIFICATE OF AUTHORIZATION
Alliance Consulting Engineers, Inc.
No. C028254
DATE: JULY 18, 2025

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

SHEET
PHASE III GRADING, STORM DRAINAGE AND EROSION AND SEDIMENT CONTROL (STA: 48+00 TO 52+00)
DATE: JULY 2025
SCALE: AS SHOWN

PROJECT
PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA
NEWBERRY COUNTY
SOUTH CAROLINA

FILE NAME: C11.dwg
REFERENCE FILE: BASE.DWG
PROJECT NO. 17113-0036
SHEET C11

DWG NO. 01,514-D09

Legend

- Proposed 8" Wastewater Gravity Main
- Proposed Manhole
- Existing Wastewater
- Existing Manhole
- Wetlands
- Existing Contours
- Proposed Contours
- Existing Overhead Electrical Line
- Limits of Disturbance
- Proposed Roadway Centerline
- Proposed Edge of Pavement
- Proposed Right-of-Way
- Proposed 12" Waterline
- Existing Water
- Existing Telephone Line
- Existing Gas Line
- Existing Fencing
- Existing Treeline
- New Treeline
- New Pavement

- = Silt Fence
- = Construction Entrance
- = Inlet Protection
- = GreenArmor Channel Matting
- = Erosion Control Matting

CONTRACTOR NOTES:
EFFORTS SHOULD BE MADE TO AVOID THE REMOVAL OF LARGE TREES AT THE EDGES OF CONSTRUCTION CORRIDORS. DISTURBED AREAS SHOULD BE RESEEDED WITH SEED MIXTURES THAT ARE BENEFICIAL TO WILDLIFE. FESCUE-BASED MIXTURES SHOULD BE AVOIDED; FESCUE IS INVASIVE AND PROVIDES LITTLE BENEFIT TO WILDLIFE. NATIVE ANNUAL SMALL GRAINS APPROPRIATE FOR THE SEASON ARE PREFERRED AND RECOMMENDED. WHERE FEASIBLE, USE WOODY DEBRIS AND LOGS FROM CORRIDOR CLEARING TO ESTABLISH BRUSH PILES AND DOWNED LOGS AT THE EDGE OF THE CLEARED RIGHT-OF-WAY TO IMPROVE HABITAT FOR WILDLIFE. CORRIDOR MAINTENANCE SHOULD BE MINIMIZED, AND MOWING SHOULD BE PROHIBITED BETWEEN APRIL 1 AND OCTOBER 1 IN ORDER TO REDUCE IMPACTS TO NESTING WILDLIFE. ADDITIONALLY, HERBICIDES SHOULD NOT BE USED IN WETLAND AREAS OR NEAR STREAMS.

References:
1. Prepared by photogrammetric methods using aerial photography dated December 16, 2006. All areas of dashed contours may not meet national map accuracy standards and should be field verified.
2. Ground control surveyed by Carolina Surveying Services, Inc. dated December 9, 2006.
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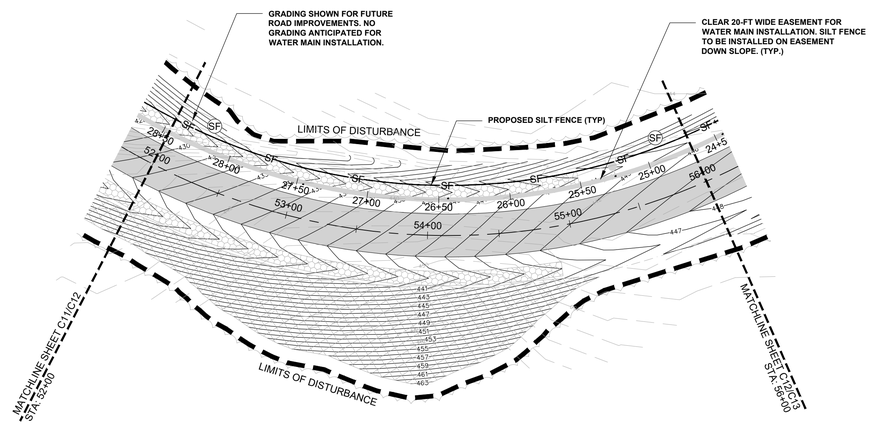

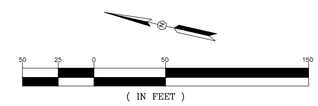

Phase III Grading, Storm Drainage and Erosion and Sediment Control Plan (STA: 52+00 TO 56+00)

Scale: Horiz. 1"=50'

REVISION	DATE

APPROVALS	
ENGINEER	BSW
DESIGNER	JAW/ BSW
TECHNICIAN	ITH
CHECKED BY	KMC/DMN
APPROVED	BSW

DATE: JULY 18, 2025

SIGNATURE:

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

SHEET: PHASE III GRADING, STORM DRAINAGE AND EROSION AND SEDIMENT CONTROL (STA: 52+00 TO 56+00)

DATE: JULY 2025 SCALE: AS SHOWN

PROJECT: PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA

NEWBERRY COUNTY SOUTH CAROLINA

FILE NAME: C12.dwg	SHEET C12
REFERENCE FILE: BASE.DWG	
PROJECT NO. 17113-0036	

DWG NO. 01.514-D09

Legend

- Proposed 8" Wastewater Gravity Main
- Proposed Manhole
- Existing Wastewater
- Existing Manhole
- Wetlands
- Existing Contours
- Proposed Contours
- Existing Overhead Electrical Line
- Limits of Disturbance
- Proposed Roadway Centerline
- Proposed Edge of Pavement
- Proposed Right-of-Way
- Proposed 12" Waterline
- Existing Water
- Existing Telephone Line
- Existing Gas Line
- Existing Fencing
- Existing Treeline
- New Treeline
- New Pavement

- = Silt Fence
- = Construction Entrance
- = Inlet Protection
- = GreenArmor Channel Matting
- = Erosion Control Matting

CONTRACTOR NOTES:
EFFORTS SHOULD BE MADE TO AVOID THE REMOVAL OF LARGE TREES AT THE EDGES OF CONSTRUCTION CORRIDORS. DISTURBED AREAS SHOULD BE RESEEDED WITH SEED MIXTURES THAT ARE BENEFICIAL TO WILDLIFE. FESCUE-BASED MIXTURES SHOULD BE AVOIDED; FESCUE IS INVASIVE AND PROVIDES LITTLE BENEFIT TO WILDLIFE. NATIVE ANNUAL SMALL GRAINS APPROPRIATE FOR THE SEASON ARE PREFERRED AND RECOMMENDED. WHERE FEASIBLE, USE WOODY DEBRIS AND LOGS FROM CORRIDOR CLEARING TO ESTABLISH BRUSH PILES AND DOWNED LOGS AT THE EDGE OF THE CLEARED RIGHT-OF-WAY TO IMPROVE HABITAT FOR WILDLIFE. CORRIDOR MAINTENANCE SHOULD BE MINIMIZED, AND MOWING SHOULD BE PROHIBITED BETWEEN APRIL 1 AND OCTOBER 1 IN ORDER TO REDUCE IMPACTS TO NESTING WILDLIFE. ADDITIONALLY, HERBICIDES SHOULD NOT BE USED IN WETLAND AREAS OR NEAR STREAMS.

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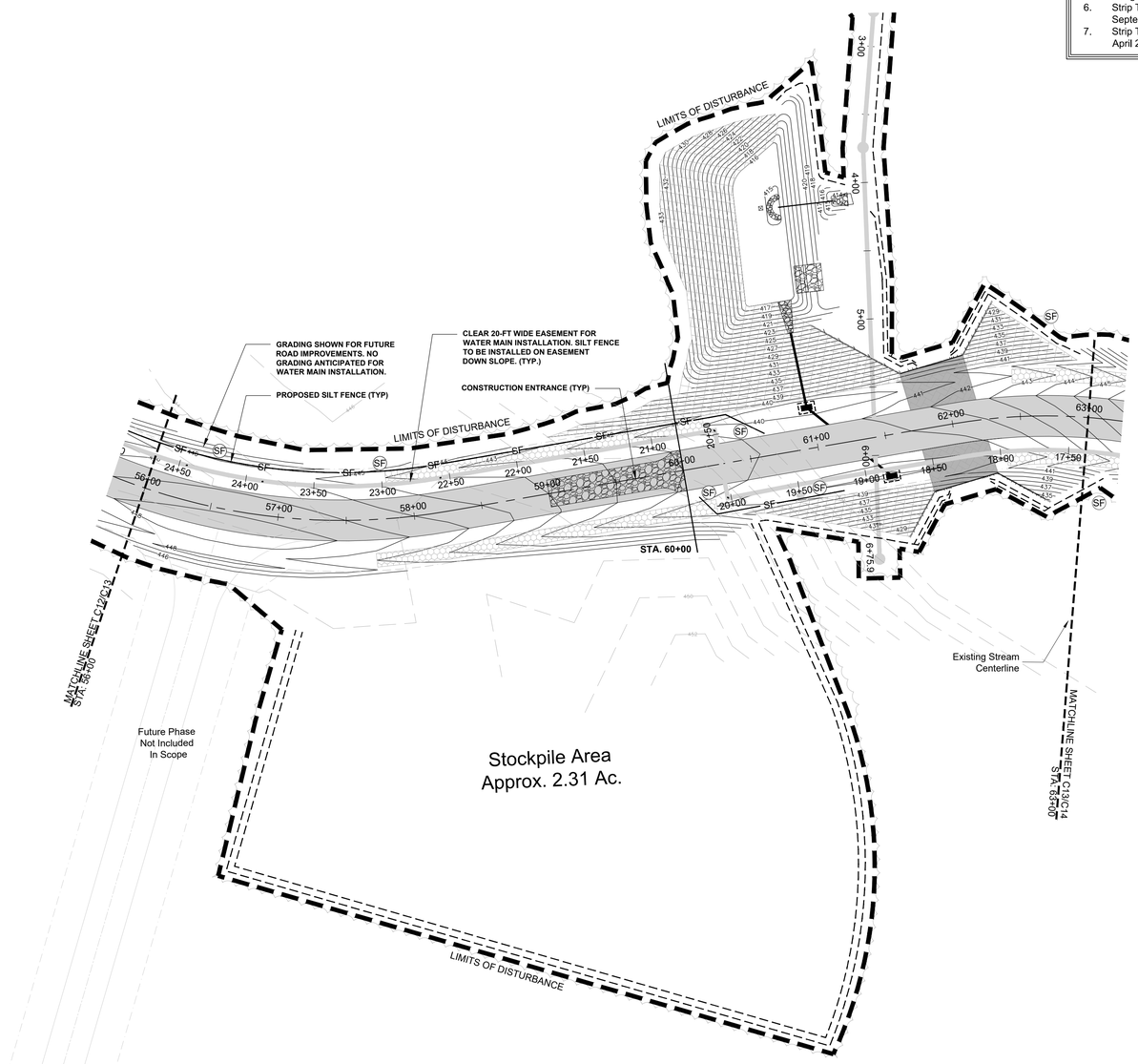


Phase III Grading, Storm Drainage and Erosion and Sediment Control Plan
(STA: 56+00 TO 63+00)

Scale: Horiz. 1"=50'

(IN FEET)

REVISION	DATE

APPROVALS: ENGINEER BSW; DESIGNER JAV/BSW; TECHNICIAN ITH; CHECKED BY KMC/DMN; APPROVED BSW

DATE: JULY 18, 2025

SIGNATURE:

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • fax (803) 779-2079

SHEET: PHASE III GRADING, STORM DRAINAGE AND EROSION AND SEDIMENT CONTROL (STA: 56+00 TO 63+00)

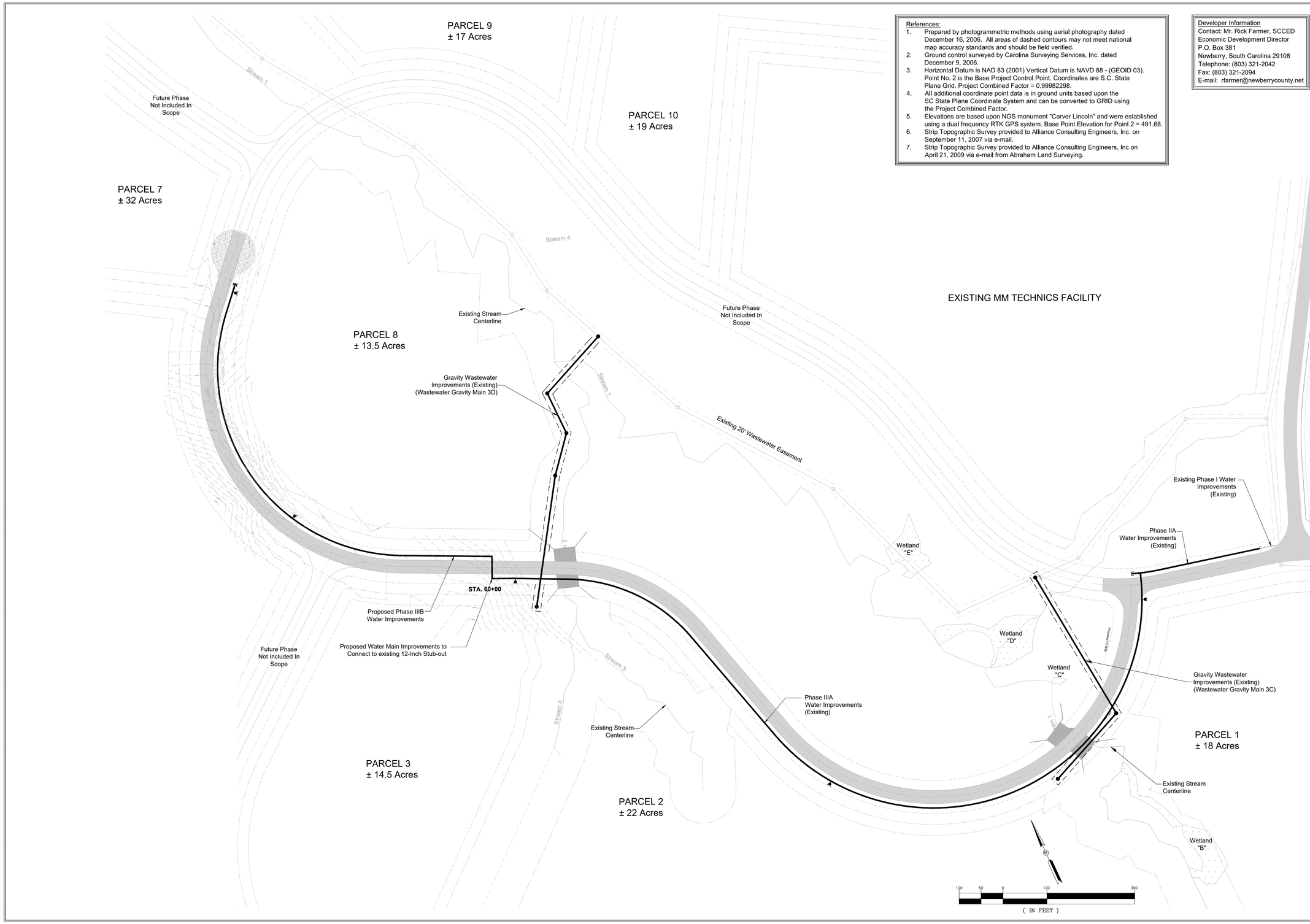
SCALE: AS SHOWN

DATE: JULY 2025

PROJECT: PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA

NEWBERRY COUNTY — SOUTH CAROLINA

FILE NAME: C13.dwg
REFERENCE FILE: BASE.DWG
PROJECT NO. 17113-0036
SHEET C13
DWG NO. 01.514-D09



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Telephone: (803) 321-2042
Fax: (803) 321-2094
E-mail: rfarmer@newberrycounty.net

REVISION DATE:

APPROVALS: ENGINEER BSW | DESIGNER JAM/BSW | TECHNICIAN ITH | CHECKED BY KMC/DMN | APPROVED BSW

HILDA CAROLINA CERTIFICATE OF AUTHORIZATION Alliance Consulting Engineers, Inc. No. C028054

DATE: JULY 18, 2025

HILDA CAROLINA BENJAMIN S. LICENSED PROFESSIONAL ENGINEER No. 26589

SIGNATURE:

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Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

SHEET: OVERALL UTILITY PLAN

SCALE: 1" = 100'

DATE: JULY 2025

PROJECT: PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA

NEWBERRY COUNTY SOUTH CAROLINA

FILE NAME: C30.dwg

REFERENCE FILE: BASE.DWG

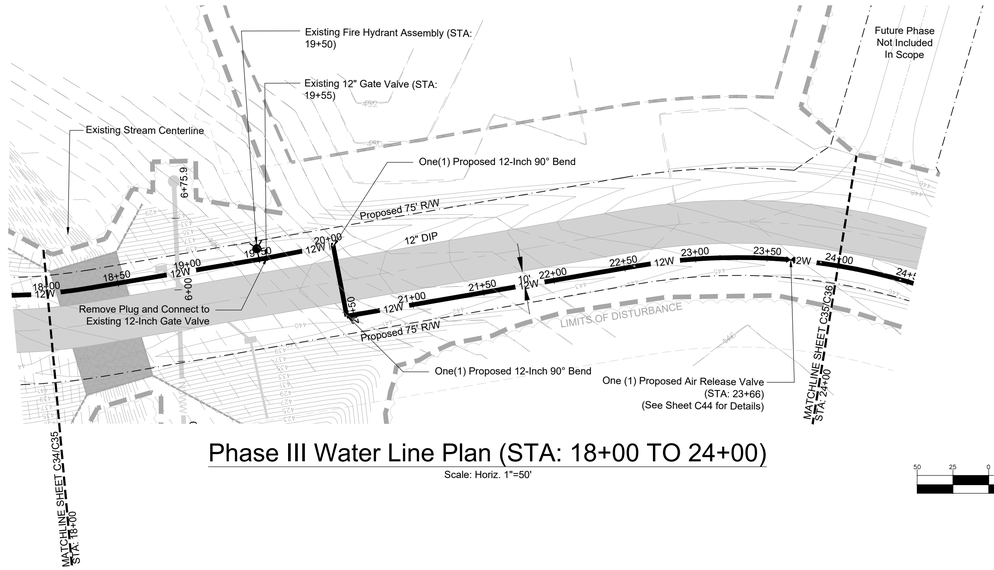
PROJECT NO. 17113-0036

SHEET C30

DWG NO. 01.514-D09

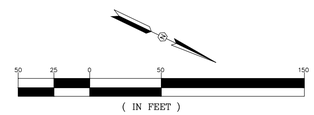
Legend

- Proposed 12" DIP Water Main
- Existing 12" DIP Water Main
- Proposed 8" Wastewater Gravity Main
- Proposed Manhole
- Existing Wastewater
- Existing Manhole
- Wetlands
- Existing Contours
- Proposed Contours
- Existing Overhead Electrical Line
- Limits of Disturbance
- No Cut-Fill Buffer
- Setback
- Proposed Roadway Centerline
- Proposed Right-of-Way
- Proposed Edge of Pavement
- Existing Telephone Line
- Existing Gas Line
- Existing Fencing
- New Pavement



Phase III Water Line Plan (STA: 18+00 TO 24+00)

Scale: Horiz. 1"=50'



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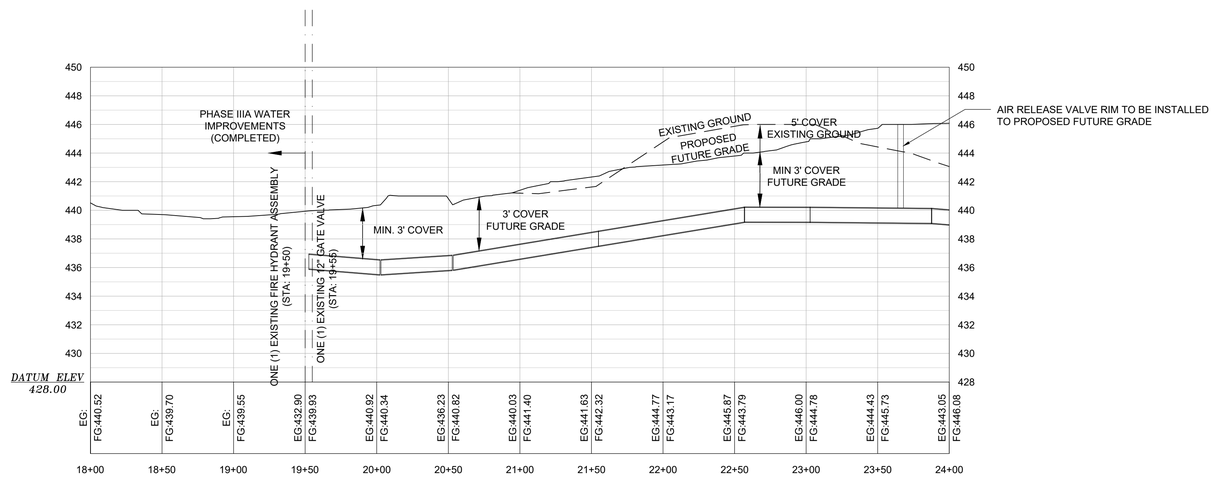
E-mail: rfarmer@newberrycounty.net

NOTE:
1. Approximately 1,200-LF of 12-Inch DIP Water Main (Includes Fittings, Bends, Appurtenances, etc to complete Water Main as shown on Plans. Linear foot cost to include these items.)



Phase III Water Line Profile (STA: 18+00 TO 24+00)

Scale: Horiz. 1"=50', Vert. 1"=5'

REVISION	DATE

APPROVALS	
ENGINEER	BSW
DESIGNER	JAV/ BSW
TECHNICIAN	ITH
CHECKED BY	KMC/DMN
APPROVED	BSW

SOUTH CAROLINA HIGHWAY ADMINISTRATION — CERTIFICATE OF AUTHORIZATION — Alliance Consulting Engineers, Inc. No. C02854 — DATE: JULY 18, 2025

SOUTH CAROLINA — HILDS BENJAMIN STANLEY — LICENSED PROFESSIONAL ENGINEER — No. 26589 — SIGNATURE:

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Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

SHEET: PHASE III WATER LINE PLAN AND PROFILE (STA: 18+00 TO 24+00)
DATE: JULY 2025 — SCALE: AS SHOWN

PROJECT: PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA
NEWBERRY COUNTY — SOUTH CAROLINA

FILE NAME: C35.dwg	SHEET C35
REFERENCE FILE: BASE.DWG	
PROJECT NO. 17113-0036	

DWG NO. 01,514-D09

Legend

- Proposed 12" DIP Water Main
- Existing 12" DIP Water Main
- Proposed 8" Wastewater Gravity Main
- Proposed Manhole
- Existing Wastewater
- Existing Manhole
- Wetlands
- Existing Contours
- Proposed Contours
- Existing Overhead Electrical Line
- Limits of Disturbance
- No Cut-Fill Buffer
- Setback
- Proposed Roadway Centerline
- Proposed Right-of-Way
- Proposed Edge of Pavement
- Existing Telephone Line
- Existing Gas Line
- Existing Fencing
- New Pavement

References:

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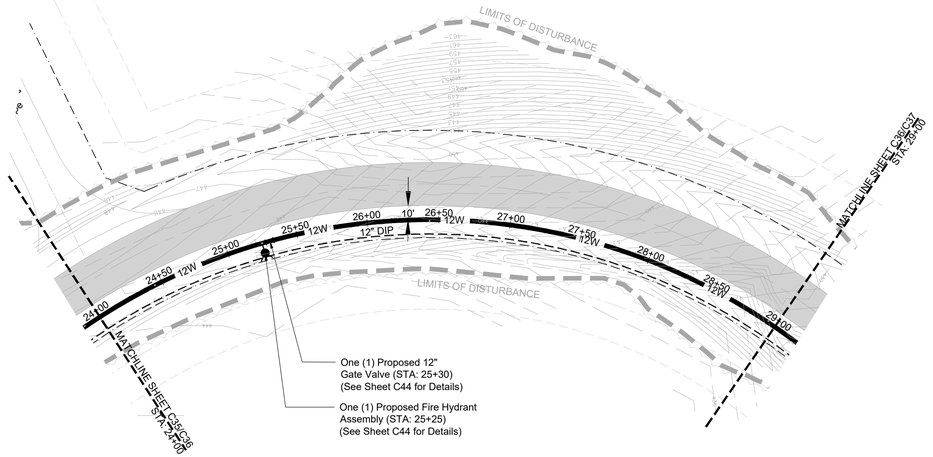
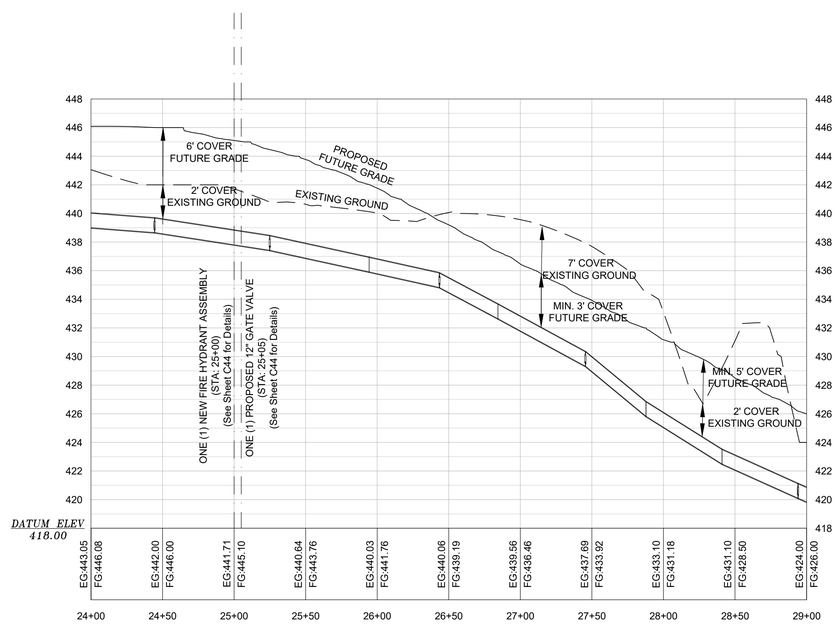
NOTE:
1. Approximately 1,200-LF of 12-Inch DIP Water Main (Includes Fittings, Bends, Appurtenances, etc to complete Water Main as shown on Plans. Linear foot cost to include these items.)



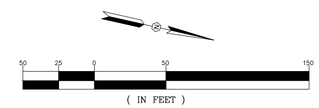
Phase III Water Line Plan (STA: 24+00 TO 29+00)

Scale: Horiz. 1"=50'



Phase III Water Line Profile (STA: 24+00 TO 29+00)

Scale: Horiz. 1"=50', Vert. 1"=5'



REVISION DATE:

APPROVALS	
ENGINEER	BSW
DESIGNER	JAW/ BSW
TECHNICIAN	ITH
CHECKED BY	KMC/DMN
APPROVED	BSW

HILDS CERTIFICATE OF AUTHORIZATION CAROLINA Alliance Consulting Engineers, Inc. No. C02854

DATE: JULY 18, 2025

HILDS BENJAMIN S. HARTLEY CAROLINA PROFESSIONAL ENGINEER LICENSED No. 26589

SIGNATURE:

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Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

SHEET
PHASE III WATER LINE PLAN AND PROFILE (STA: 24+00 TO 29+00)
DATE: JULY 2025
SCALE: AS SHOWN

PROJECT
PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA
NEWBERRY COUNTY SOUTH CAROLINA

FILE NAME: C36.dwg	SHEET
REFERENCE FILE: BASE.DWG	
PROJECT NO. 17113-0036	C36

DWG NO. 01,514-D09

Legend

- Proposed 12" DIP Water Main
- Existing 12" DIP Water Main
- Proposed 8" Wastewater Gravity Main
- Proposed Manhole
- Existing Wastewater
- Existing Manhole
- Wetlands
- Existing Contours
- Proposed Contours
- Existing Overhead Electrical Line
- Limits of Disturbance
- No Cut-Fill Buffer
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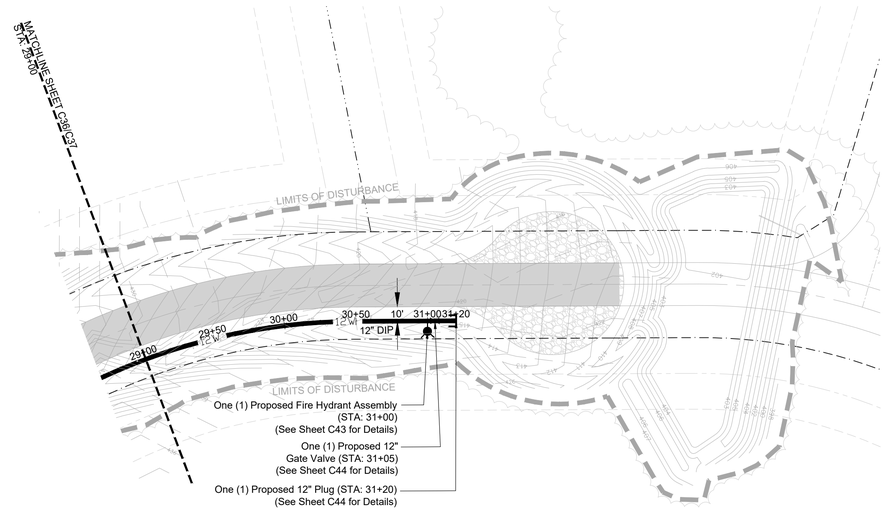

Phase III Water Line Plan (STA: 29+00 TO 31+20.00)

Scale: Horiz. 1"=50'

References:

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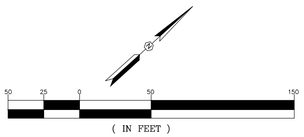
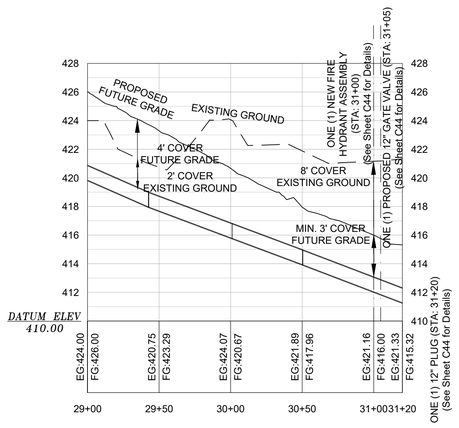
NOTE:

1. Approximately 1,200-LF of 12-Inch DIP Water Main (Includes Fittings, Bends, Appurtenances, etc to complete Water Main as shown on Plans. Linear foot cost to include these items.)





Phase III Water Line Profile (STA: 29+00 TO 31+20)

Scale: Horiz. 1"=50', Vert. 1"=5'

REVISION DATE:

APPROVALS
ENGINEER BSW
DESIGNER JAV/ BSW
TECHNICIAN ITH
CHECKED BY KMC/DMN
APPROVED BSW

HILDA CERTIFICATE OF AUTHORIZATION
Alliance Consulting Engineers, Inc.
No. C028054

DATE: JULY 18, 2025

HILDA BENJAMIN S. CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 26589

SIGNATURE:

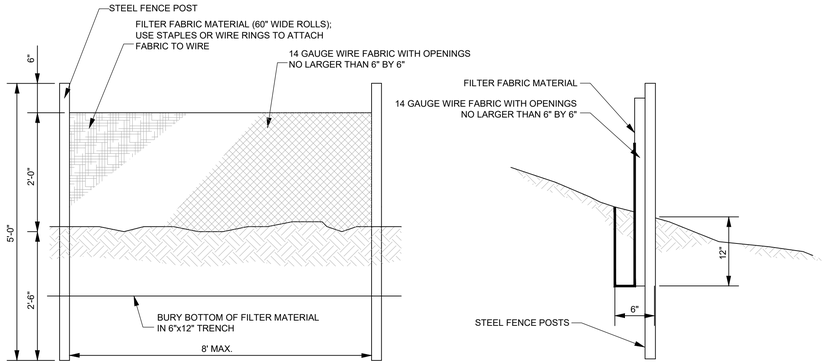
ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

SHEET
PHASE III WATER LINE PLAN AND PROFILE (STA: 29+00 TO 31+20)
DATE: JULY 2025
SCALE: AS SHOWN

PROJECT
PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA
NEWBERRY COUNTY SOUTH CAROLINA

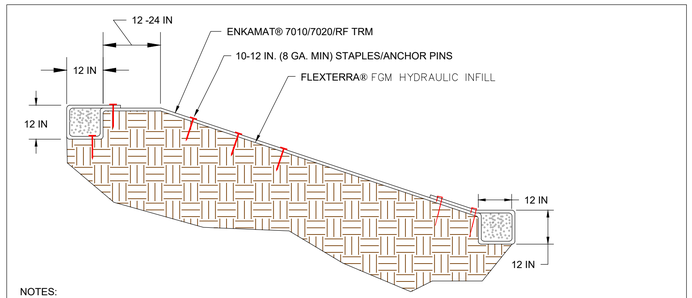
FILE NAME: C37.dwg
REFERENCE FILE: BASE.DWG
PROJECT NO. 17113-0036
SHEET C37
DWG NO. 01,514-D09

July 22, 2025 - 1:21:19 PM S:\Projects\17113-0036 Phase IIA & Phase III Rdway & Wastewater Infrastructure Improve Mid-Carolina Com. Park\dwg\Construction Plans\ C37-Phase III Water Line Plan and Profile (6 of 6).dwg



NOTE: SEDIMENT TO BE CLEANED OUT WHEN SEDIMENT HEIGHT REACHES ONE-THIRD (⅓) THE SILT FENCE HEIGHT.

SILT FENCE
NOT TO SCALE



NOTES:

1. REFER TO FLEXTERRA® DETAIL DRAWINGS FOR FURTHER GUIDANCE ON HYDRAULIC INFILL

PLEASE NOTE THAT THE INFORMATION PRESENTED HEREIN IS GENERAL INFORMATION ONLY. IT IS FOR CONCEPTUAL USE ONLY AND NOT INTENDED TO BE USED FOR CONSTRUCTION. WHILE EVERY EFFORT HAS BEEN MADE TO ENSURE ITS ACCURACY, THIS INFORMATION SHOULD NOT BE USED FOR A SPECIFIC APPLICATION WITHOUT INDEPENDENT PROFESSIONAL EXAMINATION AND VERIFICATION OF ITS SUITABILITY, APPLICABILITY AND ACCURACY.

GREENARMOR™ SYSTEM

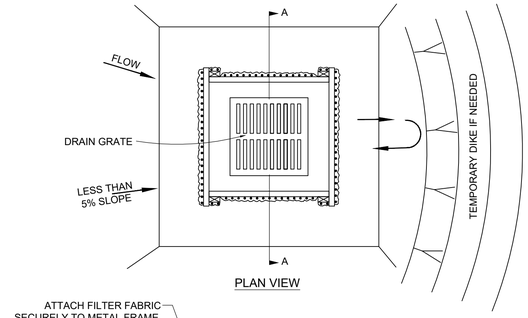
IECA ECTC

GREENARMOR™ PROFILE VIEW – SLOPE DETAIL

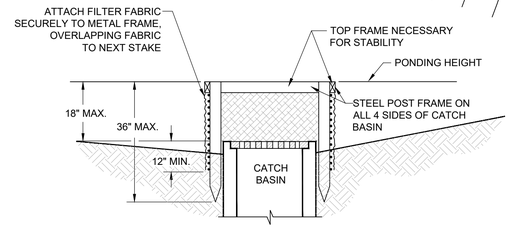
FILE NAME: Green Armor Profile View – Slope Detail.dwg	
CONTACT NUMBER: 800-508-8681	
WEB SITE: www.profileproducts.com	
DRAWN BY: MDR	DATE: 4/26/07
CHECKED BY:	DATE:
SCALE: NOT TO SCALE	
SHEET 1 OF 1	

Profile® Your Trusted Partner In Soil Solutions

CHANNEL STABILIZATION MATTING DETAIL
NOT TO SCALE



PLAN VIEW



SECTION A-A

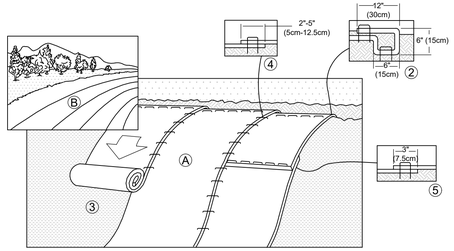
NOTES:

1. CATCH BASIN SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5%).
2. USE METAL STAKES, 3' MINIMUM LENGTH.
3. INSTALL METAL TOP FRAME TO ENSURE STABILITY.
4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
5. SEDIMENT TO BE CLEANED OUT WHEN SEDIMENT HEIGHT REACHES ONE-THIRD (⅓) THE SILT FENCE HEIGHT.

INLET PROTECTION
NOT TO SCALE

CONSTRUCTION SEQUENCE

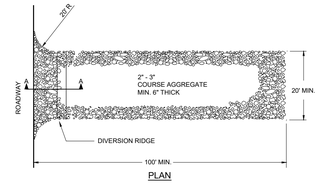
1. Receive NPDES coverage from SCDHEC.
2. Notify SCDHEC Regional Office 48 hours prior to any land disturbing activities.
3. Clearing and Grubbing only as necessary for installation of perimeter controls (e.g., Silt Fence and Construction Entrance).
4. Install perimeter Erosion and Sediment Control Devices.
5. Clearing and Grubbing of Site as necessary to install all Stormwater Detention Detention features and all accompanying Erosion and Sediment Control Measures in these areas.
6. Begin Rough Grading Operations.
7. Install Storm Drainage in relation to Rough Grading.
8. Complete Rough Grading Operation.
9. Temporary Grassing as necessary.
10. Install Stone Base and Asphalt.
11. Complete Fine Grading of Shoulder Areas.
12. Install Rip-Rap and Filter Fabric.
13. Install pavement striping and Parking/Roadway signage.
14. Install Permanent Grassing and Sabilization.
15. Maintain all Erosion and Sediment Control Devices for the Extent of the Project.
16. Once the site stabilizes, remove temporary Erosion and Sediment Control Devices after entire area draining to the structure is finally stabilized (SCDHEC recommends that the Project Owner/Operator have the SWPPP Preparer (if applicable) or registration equivalent approve the removal of the temporary structures).



1. North American Green Product SC250 to be used as Rolled Erosion Control Product (RECP).
2. Prepare soil before installing RECPs, including any necessary application of lime, fertilizer, and seed. Begin at the top of the slope by anchoring the RECPs in a 6" (15cm) deep x 6" (15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and fold remaining 12" (30cm) portion of RECPs back over seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" (30cm) apart across the width of the RECPs.
3. Roll the RECPs (a.) down or (b.) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs 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 RECPs must be stapled with approximately 2"-5" (5cm-12.5cm) overlap depending on RECP type.
5. Consecutive RECPs spliced down the slope must be placed end over end (shingle style) with an approximate 3" (7.5cm) overlap. Staple through overlapped area, approximately 12" (30cm) apart across entire RECP width.

Note: In loose soil conditions, the use of staple or stake lengths greater than 6" (15cm) may be necessary to properly secure the recps.

SLOPE INSTALLATION
DETAIL PROVIDED BY NORTH AMERICAN GREEN
NOT TO SCALE



PLAN

SECTION A-A

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. ROCK BAGS OR SANDBAGS SHALL BE PLACED SUCH THAT NO GAPS ARE EVIDENT.

CONSTRUCTION ENTRANCE/EXIT DETAIL
NOT TO SCALE

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.

Additional 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 1.0' 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 requirments.

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.

B. Schedule No. 1 - Planting dates March to August:

Common name of seed	Rate A (#/1000 sf)	Rate B (#/1000 sf)
Annual Rye Grass	10	8
Hulled Bermuda	3	2
Pensacola Bahia	2	0
Sericea Lespedeza (Clay soils)	2	0
Weeping Love Grass (Sandy soils)	2	0

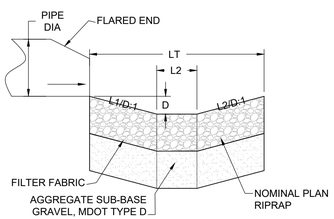
C. Schedule No. 2 - Planting dates September to February:

Common name of seed	Rate A (#/1000 sf)	Rate B (#/1000 sf)
Annual Rye Grass	10	8
Hulled Bermuda	0	0
Brown Top Millet	5	0
Unhulled Bermuda	3	2.0

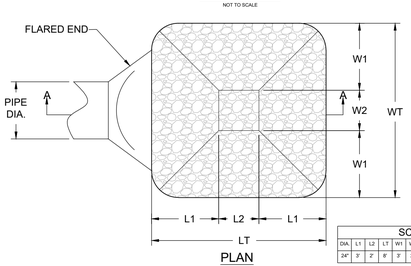
D. Utilize Rate A on slopes over 5:1 vertical in height but less than 3:1, and use Rate B lbs. per 1000 sq. ft. on slopes less than 5:1 vertical.

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

F. Provide dolomitic limestone at 1 ton per acre and 16-4-12 fertilizer, at 0.5-ton per Acre and 12-4-8 fertilizer , at 0.5 ton per Acre.



SECTION A-A
NOT TO SCALE



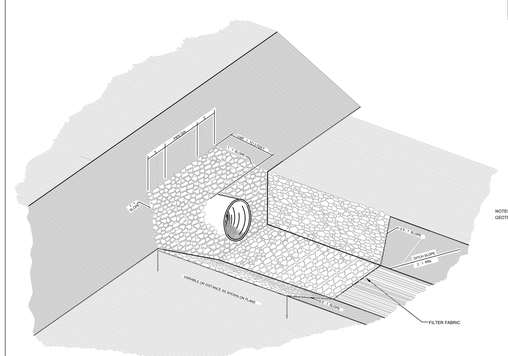
PLAN
NOT TO SCALE

SCHEDULE									
DIA.	L1	L2	LT	W1	W2	WT	D	STONE D50	RIPRAP THICKNESS
24"	3'	2'	8'	3'	2'	8'	1'	6"	14"

RIPRAP PLUNGE POOL DETAIL FOR OUTFALL

std804d

Rip-Rap Apron Sizing Chart						
PIPE LABEL	Dia (in)	Wo(FT)	LaFT	WdFT	D	dFT
SD PIPE A	18	4.5	28	12.75	1	1
SD PIPE C	18	4.5	7.5	4.50	1	1
SD PIPE G,2	18	4.5	7.5	9	1	1
OUTLET PIPE C	8	2	7.5	3.67	1	1
SD PIPE D	18	4.5	28.5	12.90	1	1
OUTLET PIPE D	8	2	7.5	3.67	1	1
SD PIPE E	24	6	60	26.00	1.6	1
OUTLET PIPE E	8	2	7.5	3.67	1	1
OUTLET PIPE F	8	2	7.5	3.67	1	1



NOTES:
GEOTEXTILE FABRIC TO BE USED UNDER RIP-RAP

REVISIONS		
DATE	REV. BY	DESCRIPTION
4-30-01	JET	REVISIONS
06-17-98	C.J.T.S.	REVISED
12-1-95	LRH	REVISED NOTES
2-10-91	CRA	REVISED NOTES

Note: Detail describes both inlet and outlet protection.

SCDOT South Carolina Department of Transportation
STANDARD DRAWING
DRAWING NO. 804-4
RIPRAP AT PIPE END AND CHANNEL
EFFECTIVE LETTING DATE NOV. 2001

REVISION DATE:

APPROVALS: ENGINEER BSW | DESIGNER JAW/BSW | TECHNICIAN ITH | CHECKED BY KMC/DMN | APPROVED BSW

SOUTH CAROLINA ILLINOIS CERTIFICATE OF AUTHORIZATION Alliance Consulting Engineers, Inc. No. C022854

DATE: JULY 18, 2025

SOUTH CAROLINA PROFESSIONAL ENGINEER BENJAMIN S. HARTLEY LICENSED No. 26589

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ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

SHEET: EROSION AND SEDIMENT CONTROL DETAILS

SCALE: AS SHOWN

DATE: JULY 2025

PROJECT: PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA

NEWBERRY COUNTY SOUTH CAROLINA

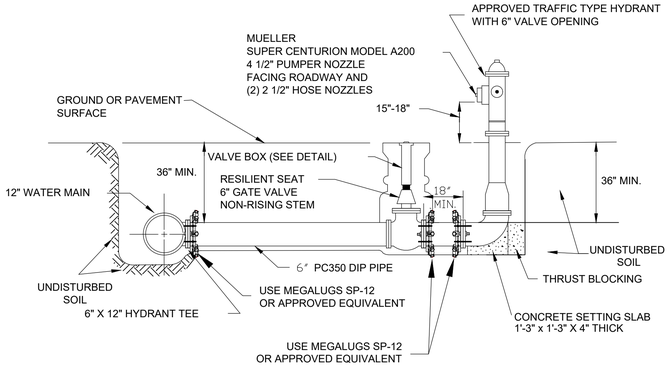
FILE NAME: C43.dwg

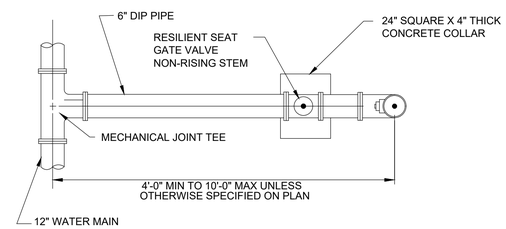
REFERENCE FILE: BASE.DWG

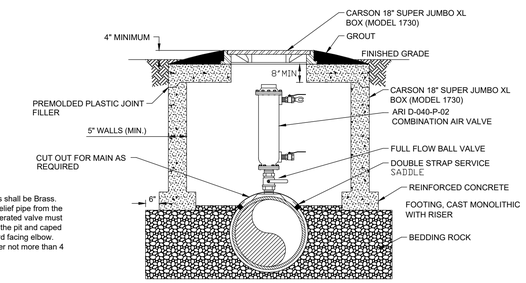
PROJECT NO. 17113-0036

SHEET C43

DWG NO. 01,514-D09







Notes:

1. Fittings and pipe for valves shall be Brass.
2. The open end of the Air Relief pipe from the automatic or manually operated valve must be extended to the top of the pit and caped with a screened downward facing elbow.
3. Place Vault Ring and Cover not more than 4 inches above final grade.

WATER COMBINATION AIR RELEASE VALVE CONNECTION

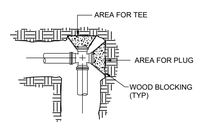
NOT TO SCALE

Notes:

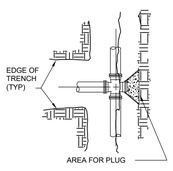
1. HYDRANT SHALL BE AS MANUFACTURED: MUELLER SUPER CENTURION MODEL A200.
2. HYDRANT SHALL BE PAINTED CARNIVAL RED FROM FACTORY.
3. 6" GATE VALVE SHALL BE AWWA 250WP - 500 TEST OPEN LEFT.
4. HYDRANT ASSEMBLY MUST BE RESTRAINED TO TEE.
5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION.
6. MEGALUGS MAY BE USED ON FIRE HYDRANT BRANCH LEGS FOR RODDING, IF MORE THAN ROD COUPLING IS EXCEEDED.
7. ENTIRE ASSEMBLY TO BE MECHANICALLY RESTRAINED.
8. HYDRANT LEADS SHALL BE A MINIMUM OF 6 INCHES IN DIAMETER
9. PROVIDE A GRAVEL POCKET OR DRY WELL UNLESS THE NATURAL SOILS PROVIDE ADEQUATE DRAINAGE.
10. DO NOT ALLOW THRUST BLOCKING TO BLOCK FIRE HYDRANT WEEP HOLES.

FIRE HYDRANT DETAIL

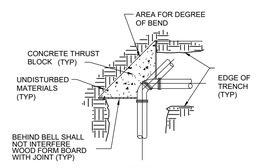
NOT TO SCALE



TEE WITH END PLUG



CROSS WITH PLUG



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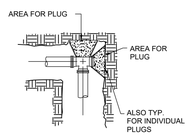
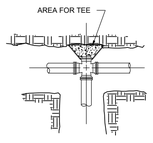
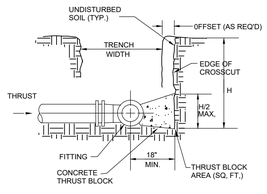


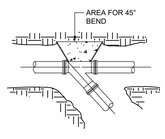
CROSS WITH TWO PLUGS



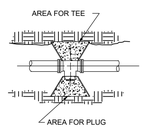
TEE



TYPICAL SECTION



WYE



TEE WITH PLUG

THRUST BLOCK DETAILS

NOT TO SCALE

Note:
A Newberry County Water and Sewer Authority Representative must be present during the placement of all Thrust Blocking. (See Cover for Contact Information)

NOTE: ALTHOUGH THRUST BLOCKS ARE ALLOWED, THE USE OF RESTRAINED JOINTS IS ENCOURAGED.

1. THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIALS WHERE TRENCH WALL HAS BEEN DISTURBED. EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL.
2. EXTEND THRUST BLOCK FULL LENGTH OF FITTINGS. PUT BOARD IN FRONT OF PLUG BEFORE POURING CONCRETE. JOINTS SHALL NOT BE COVERED BY THRUST BLOCK.
3. ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDES OF THRUST BLOCK.
4. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTINGS ARRANGEMENT.
5. ALTERNATE DESIGN RESTRAINING SYSTEM SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT SUITABLE, AND/OR SOIL BEARING CAPACITY IS LESS THAN 2,000 P.S.F. OR PIPE IS 16 INCHES OR GREATER. AND SHALL BE APPROVED BY ORANGEBURG COUNTY.
6. THRUST BLOCKING SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE.
7. CONCRETE THRUST BLOCKING SHALL HAVE A MIN. COMPRESSION STRENGTH OF 3000 PSI.
8. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED MATERIAL AND SHALL NOT COVER JOINTS, BOLTS, OR NUTS OR INTERFERE WITH REMOVAL OF ANY JOINT. WOODEN SIDE FORMS SHALL BE PROVIDED FOR THRUST BLOCKS WHERE TRENCH CONDITIONS REQUIRE.
9. THRUST BLOCKS SHALL BE PROPERLY SET AND ADEQUATELY CURED PRIOR TO PRESSURIZING THE PIPE.
10. FITTINGS SHALL BE PROTECTED BY POLYETHYLENE FILM, MIN. 8 MIL. THICK, PRIOR TO PLACING CONCRETE THRUST BLOCK.

SIZE	TEE, PLUGS	90° BENDS	45° BENDS	22-1/2° BENDS
2"	363	513	259	141
2-1/2"	531	751	379	207
3"	788	1114	562	307
4"	1302	1841	928	508
6"	2822	3990	2012	1101
8"	4783	6763	3410	1865
10"	7430	10506	5297	2898
12"	10452	14778	7452	4076

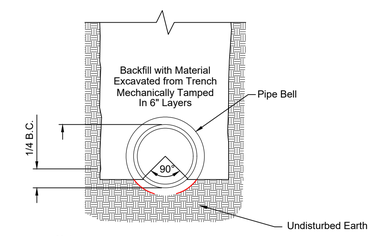
POUNDS CONCRETE FOR 100PSI SYSTEM PRESSURE

TO CALCULATE THRUST BLOCK POUNDS REQUIRED, ADJUST POUNDS CONCRETE FROM CHART BY RATIO OF SYSTEM PRESSURE TO 100PSI. SYSTEM PRESSURE IS 80PSI
DIVIDE POUNDS REQUIRED BY SOIL BEARING CAPACITY OF 3,000 LBS/SQ. FT. TO DETERMINE AREA OF

THRUST BLOCK REQUIRED TO BE IN CONTACT WITH UNDISTURBED SOIL.

IF CONTRACTOR ENCOUNTERS SUBSURFACE MATERIAL VARYING FROM THAT DESCRIBED IN THE GEOTECHNICAL REPORT, CONTACT ENGINEER AT (803) 779-2078

TYPE I



Note:
1. Hand Shaped Bottom - Shape Bell Holes for use in dry earth trenches only. Applicable to both earth and rock trenches.
2. B.C. = Outside Bell Circumference
3. No Sand, Gravel or Crushed Stone to be used for Bedding Material.

CLASS "C" BEDDING

NOT TO SCALE

REVISION	DATE

APPROVALS: ENGINEER BSW; DESIGNER JAW/BSW; TECHNICIAN ITH; CHECKED BY KMC/DMN; APPROVED BSW

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — Alliance Consulting Engineers, Inc. No. C028854

DATE: JULY 18, 2025

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — HILDA BENJAMIN S. No. 26589

SIGNATURE:

ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • fax (803) 779-2079

SHEET: WATER DETAILS

SCALE: AS SHOWN

DATE: JULY 2025

PROJECT: PHASE IIA AND III ROADWAY, WATER AND WASTEWATER IMPROVEMENTS MID-CAROLINA COMMERCE PARK FOR NEWBERRY COUNTY, SOUTH CAROLINA

NEWBERRY COUNTY — SOUTH CAROLINA

FILE NAME: C44.dwg

REFERENCE FILE: BASE.DWG

PROJECT NO. 17113-0036

SHEET C44

DWG NO. 01.514-D09