

Stantec

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TOWN OF SUMMERVILLE

200 S. Main Street

Summerville, SC

843.851.4226

Russell W. Cornette, Jr., PE

Roadway Improvements Plans for the Marymeade Drive Extension Town of Summerville, Berkeley County, SC

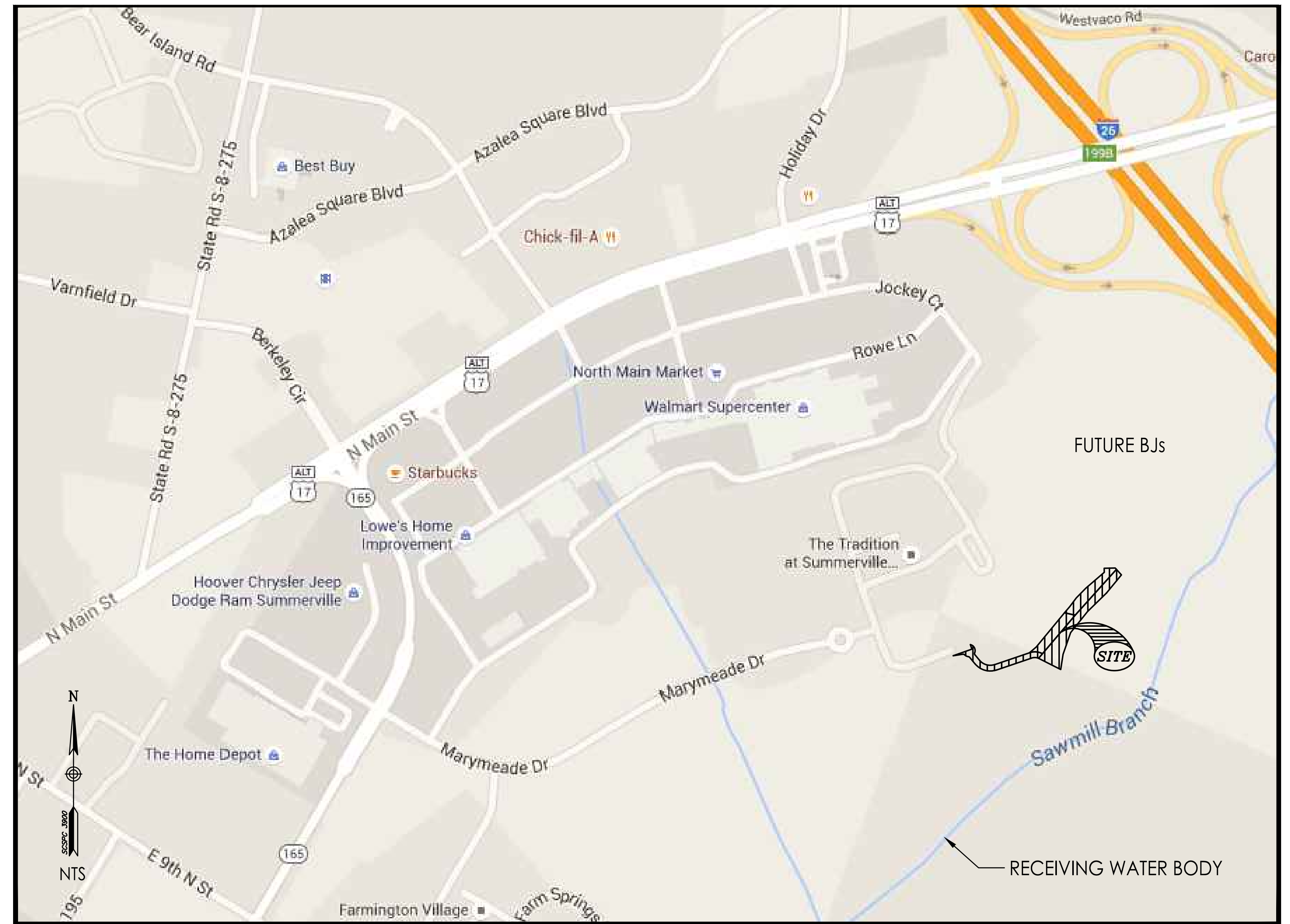
October 2, 2017

Project Number: 178420680



Know what's below.
Call before you dig.

PROJECT CONTACTS			
SUBJECT	MUNICIPALITY / UTILITY PROVIDER	CONTACT	TELEPHONE
PLANNING & ZONING	TOWN OF SUMMERVILLE	JESSI SHULER	(843) 851-4217
ROADS AND DRAINAGE	TOWN OF SUMMERVILLE	RUSSELL CORNETTE	(843) 851-4226
WATER	SANTEE COOPER		
SEWER	SUMMERVILLE CPW	R. CHRISTOPHER KAHLER	(843) 875-8761
ELECTRICAL POWER	SCE&G	WILLIAM SEILGER	(843) -
NPDES LAND DIST.	SCDHEC - OCRM	RICHARD GEER	(843) 953-0238



SHEET INDEX

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This drawing is not to be used for construction purposes unless signed and sealed by the Engineer of Record and stamped "Approved For Construction." Use of this drawing for quantity take-offs and pricing is preliminary until all applicable permits have been obtained.

Revision	By	Appd.	MM.DD.YY
FOR BID	JLL	EKC	17.10.02
RELEASE FOR AGENCY REVIEW	JLL	BDK	12.16.15
Issued	By	Appd.	MM.DD.YY

File Name: 20659-cover-ph1.dwg	JLL	EKC	JLL	15.12.16
	Dwn.	Chkd.	Dsgn.	MM.DD.YY

- AT THE SIGNED/SEALED DATE OF THESE PLANS, THE B'S SITE AND SUPPORTING INFRASTRUCTURE HAVE NOT BEEN CONSTRUCTED. HOWEVER, IT IS ANTICIPATED AND ASSUMED THAT THE B'S SITE AND OFFSITE INFRASTRUCTURE WILL HAVE BEEN CONSTRUCTED PRIOR TO COMMENCEMENTS OF CONSTRUCTION FOR THE MARYMEADE DR. EXTENSION.

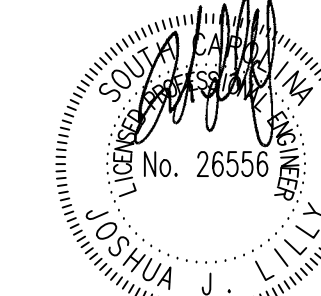
APPROVED FOR CONSTRUCTION

Revision	By	Appd.	YY.MM.DD

2. FOR BID	JJL	EKC	17.10.02
1. FOR REVIEW	JJL	BDK	15.12.16
Issued			YY.MM.DD

File Name:	Des.	Chkd.	Desgn.	YY.MM.DD

Permit



October 2, 2017

OWNER
Town of Summerville

Marymeade Roadway Extension

Summerville, SC

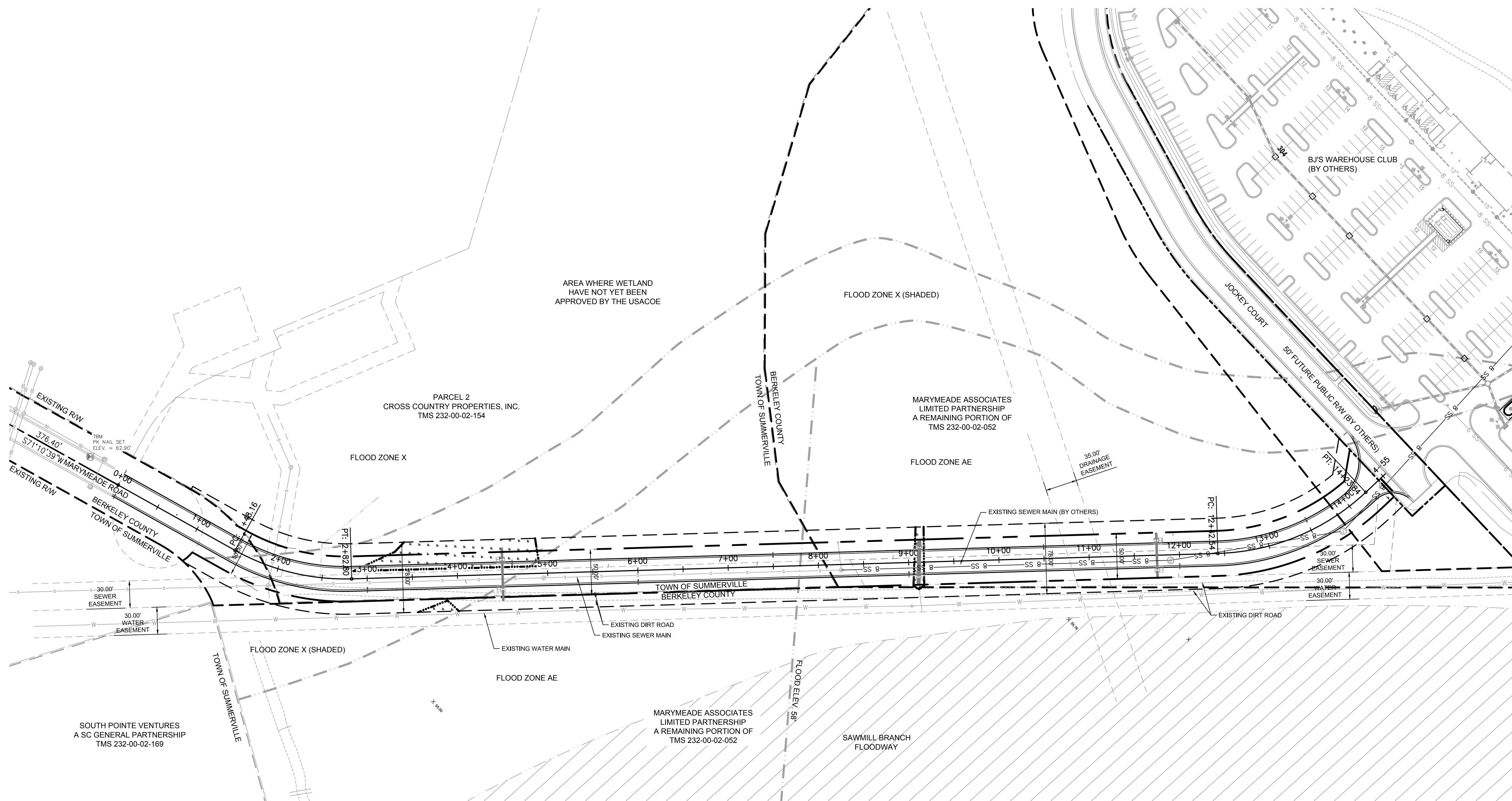
Title
OVERALL ROAD LAYOUT PLAN

Project No. Scale

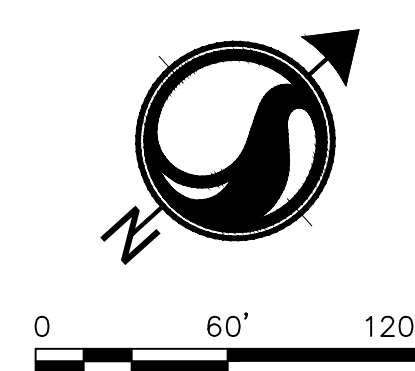
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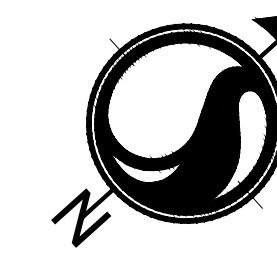
Drawing No. Sheet Revision

C3 3 of 16 0



Know what's below.
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Consultants

Legend

- DSF — DOUBLE ROW SILT FENCE
- CONSTRUCTION ENTRANCE
- STORM DRAINAGE STRUCTURE
- TYPE E INLET CONTROL
- FLOODWAY
- EASEMENT LINES
- PROPERTY LINE
- FEMA FLOOD LINE
- LIGHT POLES / FIXTURES
- LIMIT OF DISTURBANCE
- TEMPORARY SEEDING
- TYPE E INLET CONTROL
- DUST CONTROL
- PERMANENT SEEDING

Notes

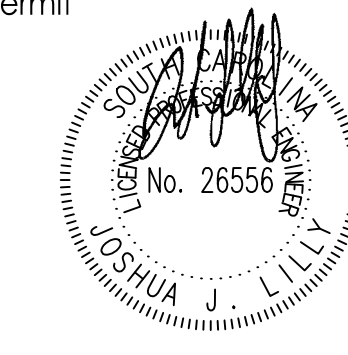
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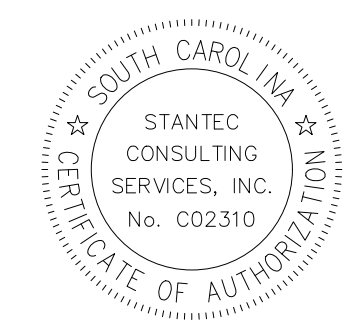
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Town of Summerville

Marymeade Roadway Extension

Summerville, SC

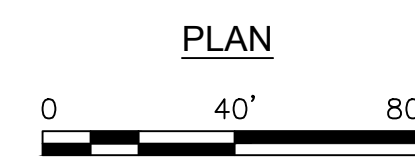
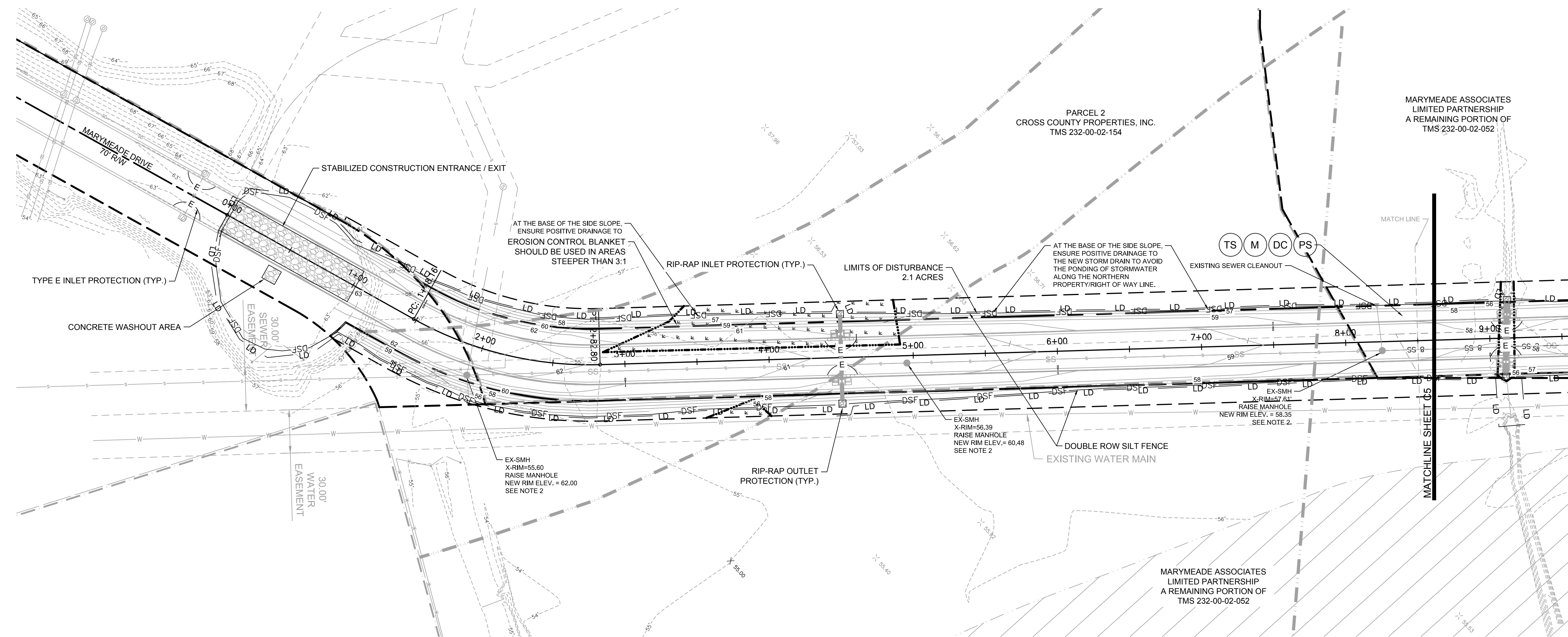
Title

EROSION AND SEDIMENT CONTROL PLAN
STA 0+00 - 8+50

Project No. 178420680 Scale

Drawing No. C4 Sheet 4 of 16 Revision

C4 4 of 16 0



NOTES:

1. SEE SHEET C2 FOR STANDARD EROSION CONTROL NOTES
- SEQUENCE OF CONSTRUCTION:
 1. RECEIVE NPDES COVERAGE FROM DHEC.
 2. PRE-CONSTRUCTION MEETING
 3. NOTIFY DHEC EDC REGIONAL OFFICE, SUMMERVILLE CPW AND SANTEE COOPER 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
 4. INSTALLATION OF CONSTRUCTION ENTRANCE.
 5. INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE).
 6. CLEAR PROJECT TO CLEARING LIMITS AS SHOWN.
 7. INSTALL STORM DRAINAGE PIPE, CURB INLETS, OUTLET PROTECTION.
 8. MODIFY SEWER SYSTEM AS NECESSARY. CONSTRUCT DIVERSION SWALES AS NECESSARY TO CONVEY STORM WATER TO INLET PROTECTION STRUCTURES.
 9. ROUGH GRADING OF ROADWAY.
 10. SITE GRADING, INSTALL CURB AND GUTTER IN RIGHT-OF-WAY, PAVEMENT SURFACING, GRAVEL SURFACING.
 11. PERMANENT/FINAL STABILIZATION: INSTALL FLEXSTORM PC-FILTER BAGS.
 12. MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
 13. CONTACT DHEC FOR FINAL INSPECTION AND CLOSE-OUT OF PROJECT. ASBUILT, VIDEO AND CLOSE-OUT APPLICATION TO BE SUBMITTED FOR REVIEW AND APPROVAL. CONTRACTOR IS RESPONSIBLE FOR PROVIDING VIDEO.
 14. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARED OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES)
 15. SUBMIT NOT TO DHEC.

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- DSF — DOUBLE ROW SILT FENCE
- CONSTRUCTION ENTRANCE
- STORM DRAINAGE STRUCTURE
- TYPE E INLET CONTROL
- FLOODWAY
- EASEMENT LINES
- PROPERTY LINE
- FEMA FLOOD LINE
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- PERMANENT SEEDING

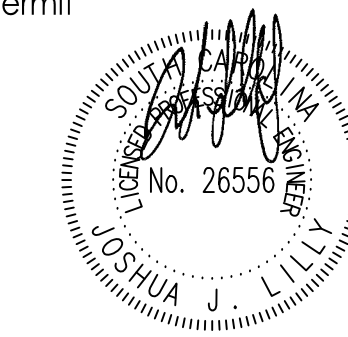
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APPROVED FOR CONSTRUCTION

Revision	By	Appd.	YY.MM.DD
2. FOR BID	JJL	EKC	17.10.02
1. FOR REVIEW	JJL	BKD	15.12.16

File Name: _____ Dwn. Chkd. Dsgn. YY.MM.DD

Permit



October 2, 2017

OWNER

Town of Summerville

Marymeade Roadway Extension

Summerville, SC

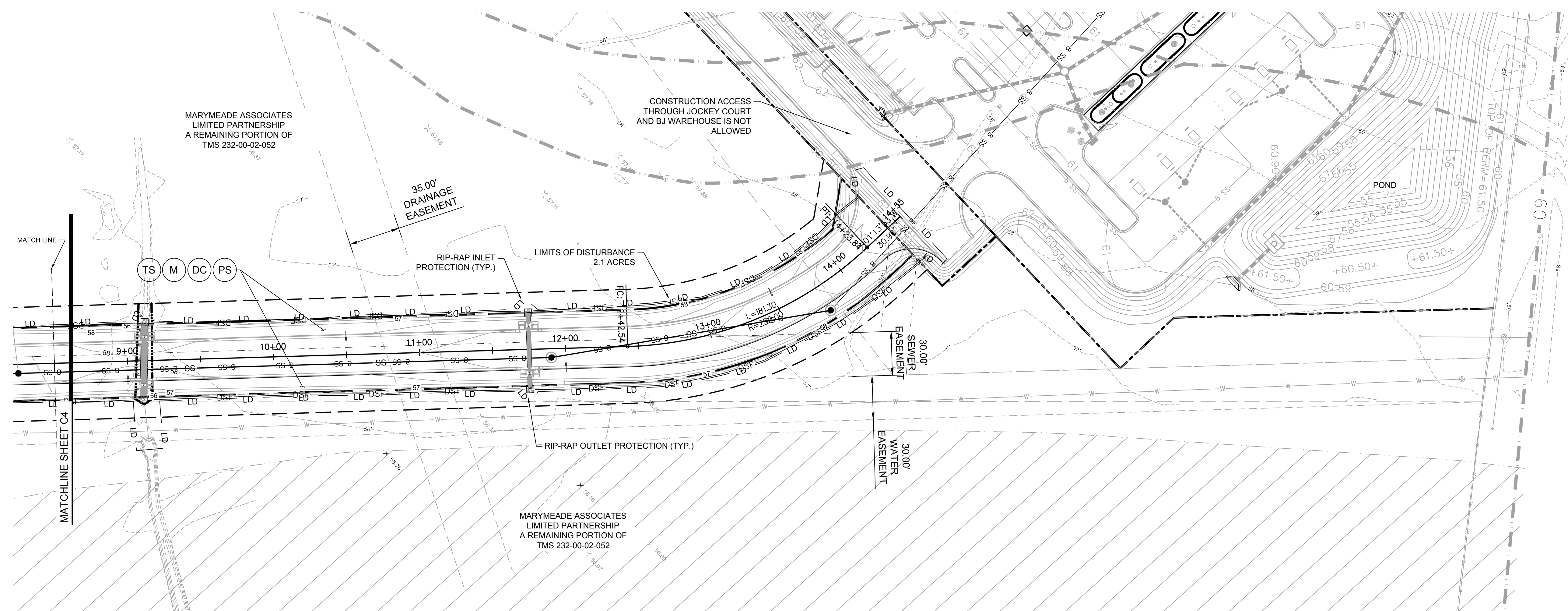
Title

EROSION AND SEDIMENT CONTROL PLAN
STA 8+50 - 14+55

Project No. 178420680 Scale

Drawing No. C5 Sheet 5 of 16 Revision

C5 5 of 16 0



NOTES:

- SEE SHEET C2 FOR STANDARD EROSION CONTROL NOTES
- RECEIVE NPDES COVERAGE FROM DHEC.
- PRE-CONSTRUCTION MEETING.
- NOTIFY DHEC EOC REGIONAL OFFICE, SUMMERVILLE CPW AND SANTEE COOPER 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
- INSTALLATION OF CONSTRUCTION ENTRANCE.
- INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE).
- CLEAR PROJECT TO CLEARING LIMITS AS SHOWN.
- INSTALL STORM DRAINAGE PIPE, CURB INLETS, OUTLET PROTECTION.
- MODIFY SEWER SYSTEM AS NECESSARY. CONSTRUCT DIVERSION SWALES AS NECESSARY TO CONVEY STORM WATER TO INLET PROTECTION STRUCTURES.
- ROUGH GRADING OF ROADWAY.
- SITE GRADING, INSTALL CURB AND GUTTER IN RIGHT-OF-WAY, PAVEMENT SURFACING, GRAVEL SURFACING.
- PERMANENT/FINAL STABILIZATION. INSTALL FLEXSTORM PC+ FILTER BAGS.
- MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
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- REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED. THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES) SUBMIT NOT TO DHEC.

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SILT FENCE INSTALLATION

PLAN SYMBOL
— SF — SF —

1.25 LB./LINEAR FT. STEEL POSTS
MAXIMUM SPACING = 6 FT.
BACKFILL TRENCH WITH COMPACTED EARTH
RUNOFF
HEAVY DUTY PLASTIC TIE FOR STEEL POSTS (RESTRICT TO TOP 8-INCHES OF FABRIC)
BURY FABRIC

USE EITHER FLAT-BOTTOM OR V-BOTTOM TRENCH SEE DETAILS

SILT FENCE - GENERAL NOTES

- Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
- Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- Silt fence joints, when necessary, shall be completed by one of the following options:
 - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap.
 - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties, or
 - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
- Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Te-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.

FLAT-BOTTOM TRENCH DETAIL

18-IN. TO 24-IN.
24-IN. (MINIMUM)
6-IN.
BURY FILTER FABRIC AT LEAST 12-INCHES

V-SHAPED TRENCH DETAIL

18-IN. TO 24-IN.
24-IN. (MINIMUM)
6-IN.
BURY FILTER FABRIC AT LEAST 12-INCHES

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2
NOT TO SCALE
FEBRUARY 2014 DATE

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" length of 1.48-inches.
 - Weigh 1.25 pounds per foot (± 8%).
- Posts shall be equipped with projections to aid in fastening of filter fabric.
- 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 1/2 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
- 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.
- 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 requirements:
 - 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 affect its physical properties after installation;
 - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
 - 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.
- 12-inches of the fabric should be placed within excavated trench and tamped in when the trench is backfilled.
- Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
- Filter Fabric shall be installed at a minimum of 24-inches above the ground.

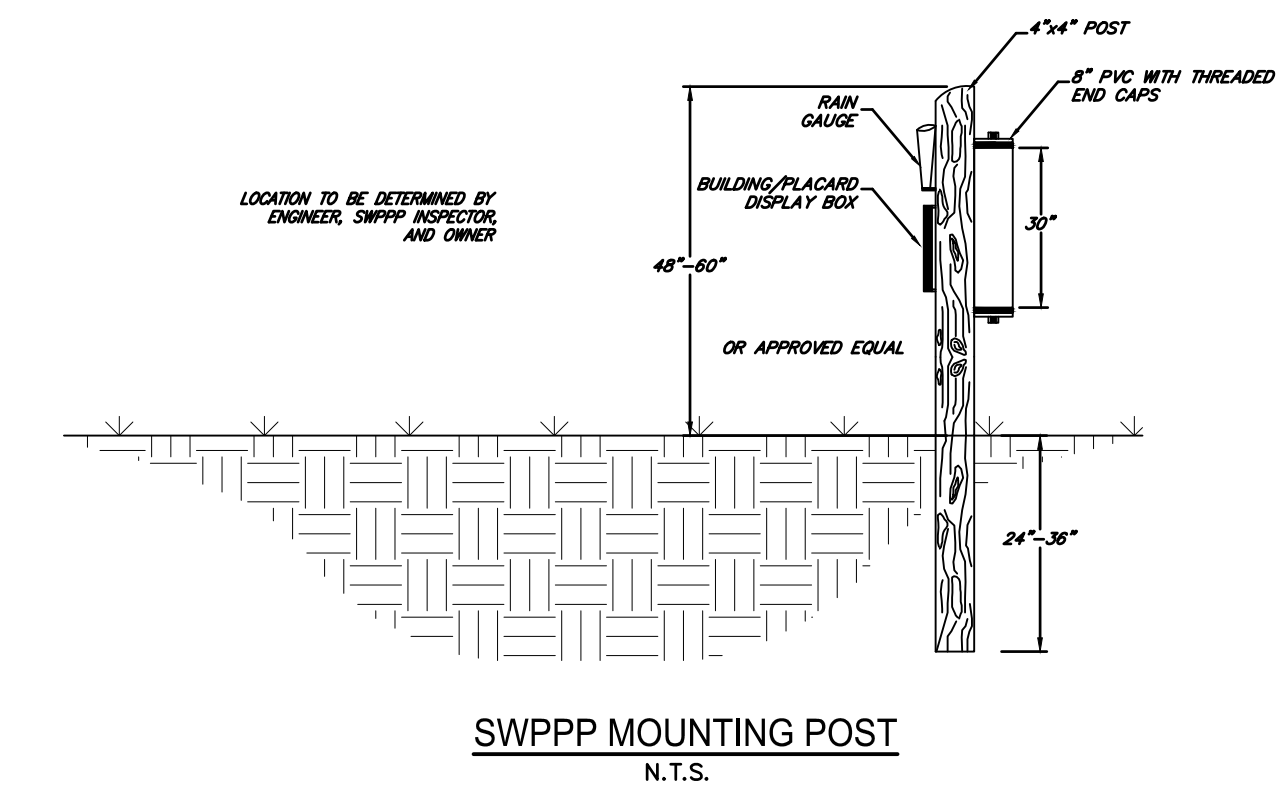
SILT FENCE - INSPECTION & MAINTENANCE

- 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 event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- 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 overlapping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
- 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 immediately.
- 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 Control

SILT FENCE

STANDARD DRAWING NO. SC-03 PAGE 2 of 2
GENERAL NOTES
FEBRUARY 2014 DATE



EDGES SHALL BE TAPERED OUT TOWARDS ROAD TO PREVENT TRACKING OF MUD ON THE EDGES
100-FT. MIN.
6-INCH MIN.
24-FT. MIN.
AVERAGE STONE DIAMETER OF 2 TO 3-INCHES WITH A 6-INCH MINIMUM DEPTH
UNDERLYING NON-WOVEN GEOTEXTILE FABRIC

SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2
NOT TO SCALE
FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE - GENERAL NOTES

- Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
- Install a non-woven geotextile fabric prior to placing any stone.
- Install a culvert pipe across the entrance when needed to provide positive drainage.
- The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
- Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
- The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
- Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
- Limestone may not be used for the stone pad.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

- The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- 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.
- Reshape the stone pad as necessary for drainage and runoff control.
- 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.
- 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.
- During maintenance activities, any broken pavement should be repaired immediately.
- 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 Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 2 of 2
GENERAL NOTES
FEBRUARY 2014 DATE

TEMPORARY VEGETATION SCHEDULE

SPECIES	RATE (LBS./AC)	OPTIMUM DATES TO PLANT	REMARKS
BROWNTOP MILLET (ALONE)	40	APRIL 20 - AUGUST 15	QUICK, DENSE COVER
BROWNTOP MILLET (MIX)	15	APRIL 20 - AUGUST 15	QUICK, DENSE COVER
FIVE GRASS (ALONE)	56	FEBRUARY - MARCH, AUGUST 15 - NOVEMBER 20	QUICK COVER
FIVE GRASS (MIX)	10	FEBRUARY - MARCH, AUGUST 15 - NOVEMBER 20	QUICK COVER
FIVE GRASS (ALONE)	50	AUGUST 10 - OCTOBER 10	COMPETITIVE, DENSE
FIVE GRASS (MIX)	8	AUGUST 10 - OCTOBER 10	COMPETITIVE, DENSE

* FOR DETAILS ON MIXES CONSULT THE CLEMSON UNIVERSITY HOME AND GARDEN INFORMATION CENTER AT (888) 656-9988 OR AT HTTP://HSG.CLEMSON.EDU.

PERMANENT VEGETATION SCHEDULE

SPECIES	RATE (LBS./AC)	OPTIMUM DATES TO PLANT	REMARKS
BERNADA GRASS (MULLED) (ALONE)	8-12	APRIL - JULY 15	QUICK COVER, SOD FORMING, PARTIAL WINTER KILL
BERNADA GRASS (MULLED) (MIX)	4-6	APRIL - JULY 15	QUICK COVER, SOD FORMING, PARTIAL WINTER KILL
FESCUE, TALL (K191)	40	AUGUST 15 - OCTOBER	SEEDING SEEDS ALONE, NOT FOR DRY OR WET SITES
FESCUE, TALL (K191)	20	AUGUST 15 - OCTOBER	SEEDING SEEDS ALONE, NOT FOR DRY OR WET SITES
SORGHA LESPEDeza (SCARFEE) ALONE OR MIX (INOCULATE WITH EL INOCULANT)	40	APRIL - JUNE	GOOD FOR SLOPES, CUTS, AND FILLS THAT REQUIRE LOW MAINTENANCE
ANNUAL RYE GRASS	15	AUGUST 15 - FEBRUARY	GOOD FOR SUPPRESSING WEEDS, DO NOT USE TRUAM RYE GRASS
CENTPEDEE	10	MARCH 1 - APRIL 15	REQUIRES LOW MAINTENANCE AND FEWER CUTS.

* FOR DETAILS ON MIXES CONSULT THE CLEMSON UNIVERSITY HOME AND GARDEN INFORMATION CENTER AT (888) 656-9988 OR AT HTTP://HSG.CLEMSON.EDU.

UNUSUAL SITE CONDITIONS MAY REQUIRE HIGH SEEDING RATES. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS. ALL DISTURBED AREAS MUST BE GRASSED IN ACCORDANCE WITH S.C.D.O.T. STANDARD SPECS. PRIOR TO ACCEPTANCE BY NORTH CHARLESTON.

SEEDING SCHEDULE

STRAW BALE BARRIER CONCRETE WASHOUT

10' MIN.
STAKE (TYP.)
CONCRETE WASHOUT
STRAW BALE (TYP.)
STAPLES 1/8" DIA. 4" STAPLE (2 PER BALE)
BINDING WIRE
WOOD OR METAL STAKES (2 PER BALE)
STRAW BALE
NATIVE MATERIAL (OPTIONAL)

LETTERS A MINIMUM OF 5" IN HEIGHT
CONCRETE WASHOUT SIGN DETAIL

South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT STRAW BALES OR ABOVE GROUND

STANDARD DRAWING NO. RC-07 PAGE 1 of 1
NOT TO SCALE
FEBRUARY 2014 DATE

PIPE OUTLET	PIPE DIA. (IN.)	# PIPES	SD (FT.)	Lo (FT.)	W (IN.)	AVG. ROCK DIA. (IN.)	d (IN.)
1	18"	4	4.5	6'	6"	6	0.75
2	30"	2	7.5	10'	10"	6	0.75

PIPE OUTLET FLAT AREA - NO WELL-DEFINED CHANNEL
PIPE OUTLET TO WELL-DEFINED CHANNEL
PLAN
SECTION AA
SECTION AA
FILTER BLANKET

NOTES:
1. Lo IS THE LENGTH OF THE RIPRAP APPROX.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL EXTEND THE APPROX UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OF FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

OUTLET STABILIZATION STRUCTURE

N.T.S.

DOUBLE ROW SILT FENCE

1.25 LB./LINEAR FT. STEEL POSTS
FILTER FABRIC
MAXIMUM SPACING = 6 FT.
BACKFILL TRENCH WITH COMPACTED EARTH
RUNOFF
HEAVY DUTY PLASTIC TIE FOR STEEL POSTS
BURY FABRIC

USE EITHER FLAT-BOTTOM OR V-BOTTOM TRENCH SHOWN BELOW

SILT FENCE INSTALLATION (DOUBLE ROW)

FLAT-BOTTOM TRENCH DETAIL (DOUBLE ROW)
V-SHAPED TRENCH DETAIL (DOUBLE ROW)

APPROVED FOR CONSTRUCTION

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 October 2, 2017

OWNER
 Town of Summerville
 Marymeade Roadway Extension
 Summerville, SC

Title
 EROSION AND SEDIMENT CONTROL DETAILS

Project No. 178420680 Scale
 Drawing No. Sheet Revision

811 Know what's below. Call before you dig.

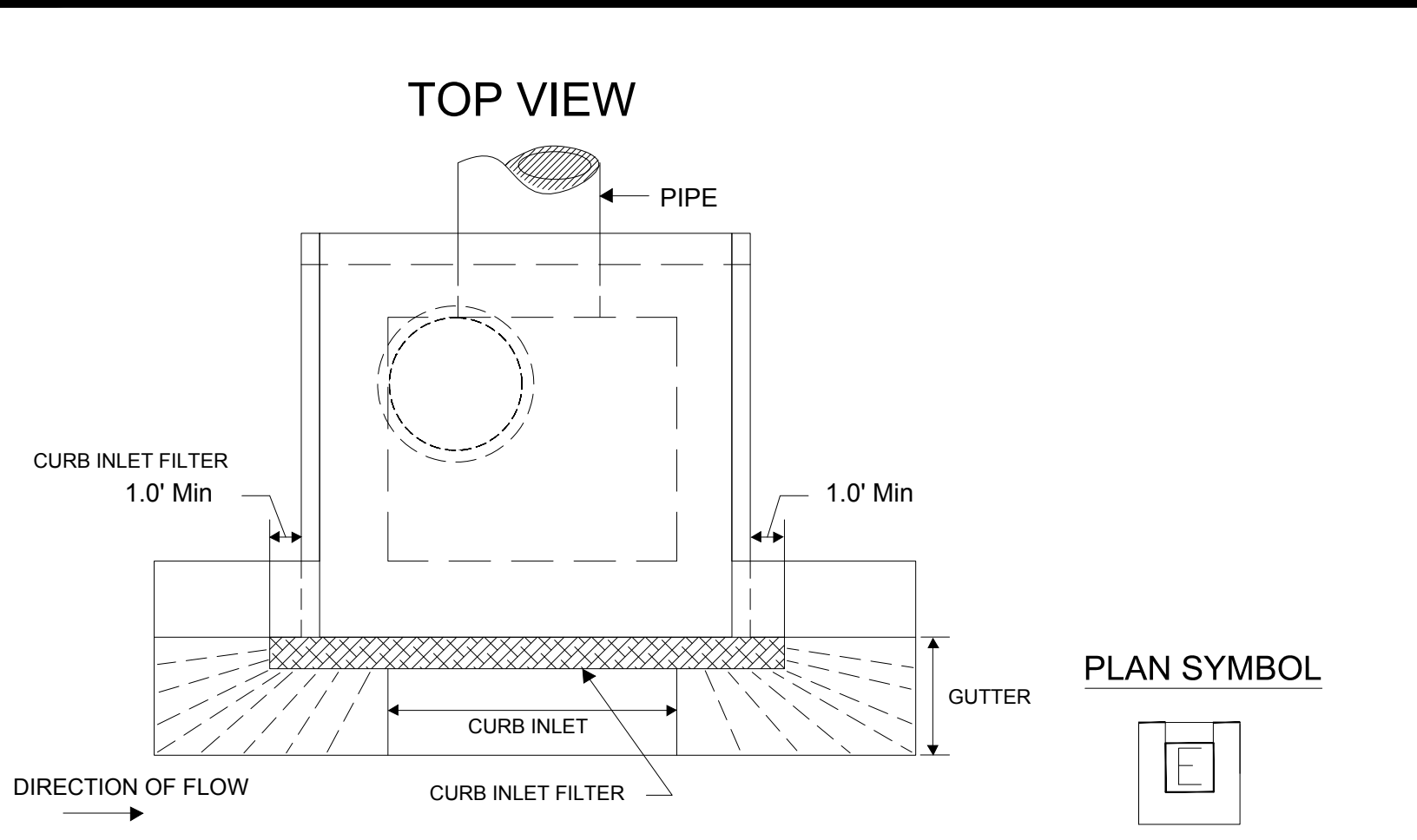
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2017/10/20 2:29 AM BY: JLL

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The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
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Consultants

Legend

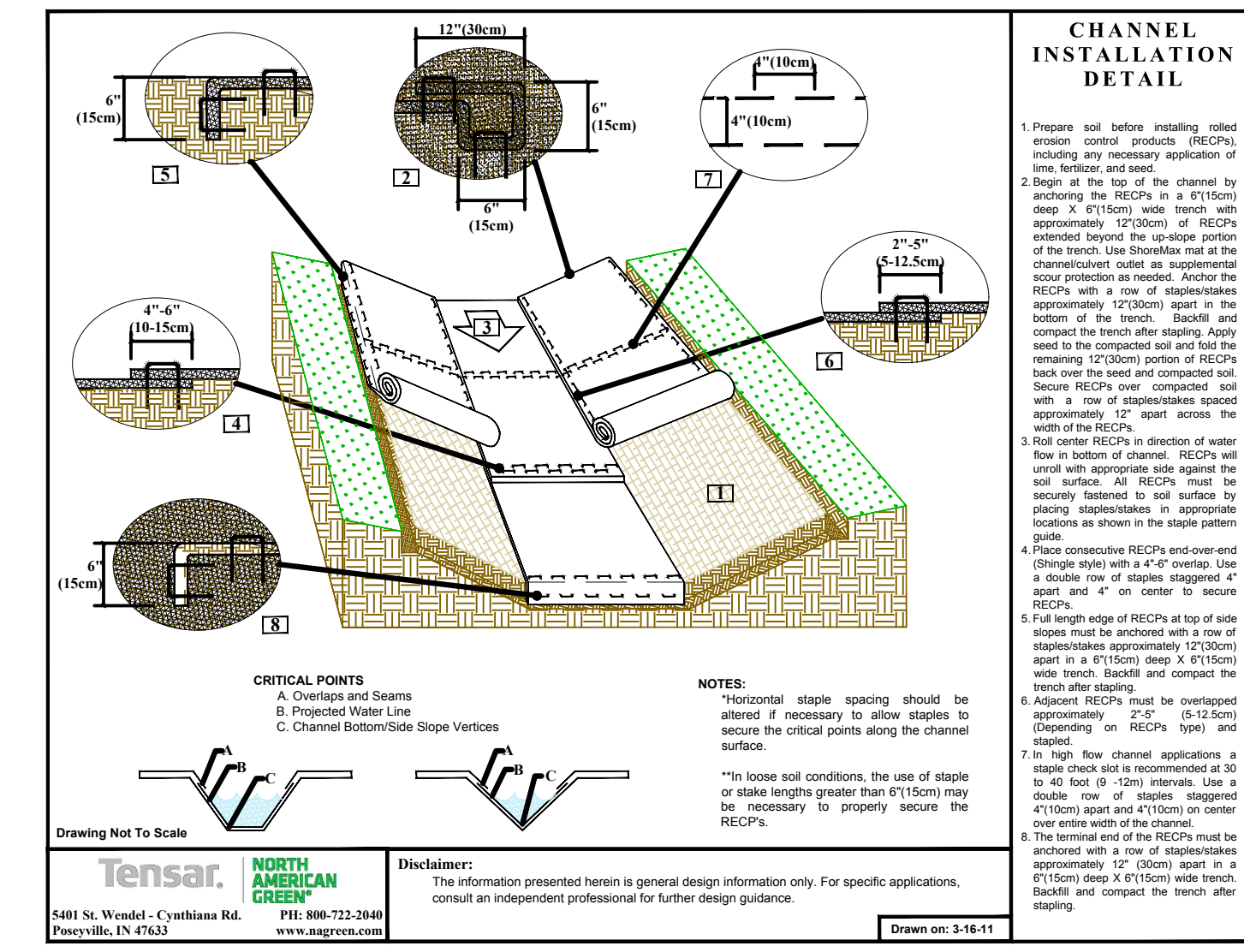


South Carolina Department of Health and Environmental Control
Type E
SURFACE COURSE CURB INLET FILTERS
STANDARD DRAWING NO. SC-10 PAGE 1 of 2
FEBRUARY 2014
NOT TO SCALE
DATE

- SURFACE COURSE CURB INLET PROTECTION**
- GENERAL NOTES**
- Only use surface curb inlet filters that have a minimum height or diameter of 9-inches and have a minimum length that is 2-feet longer than the length of the curb opening.
 - Surface course inlet filters that are designed to completely block the inlet opening are prohibited. Acceptable inlet filters should allow for overflows to enter the catch basin.
 - Surface course inlet filters should be constructed with a synthetic material that will allow stormwater to freely flow through while trapping sediment and debris.
 - Straw, straw fiber, straw bales, pine needles and leaf mulch are not permissible filter materials.
 - Each filter should have aggregate compartments for stone, sand, and other weighted materials or mechanisms to hold the unit in place. Fill aggregate compartments to a level (at least 1/2 full) to hold the filter in place and create a seal between the filter and the road surface.
 - Use only Type E inlet filters appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #58, or filters that meeting the most current edition of the SC DOT Standard Specifications for Highway Construction.

- INSPECTION AND MAINTENANCE**
- The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
 - Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
 - Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
 - Remove accumulated sediment when silt and/or debris has built up around the filter preventing stormwater to flow through the filter.
 - Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
 - Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control
Type E
SURFACE COURSE CURB INLET FILTERS
STANDARD DRAWING NO. SC-10 PAGE 2 of 2
FEBRUARY 2014
GENERAL NOTES
DATE



Tensar NORTH AMERICAN GREEN
SAMI St. Wood - Cynthia Rd.
Ft. Mill, SC 29504
www.tensar.com

Disclaimer:
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Notes

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APPROVED FOR CONSTRUCTION

Revision	By	Appd.	YY.MM.DD
1. FOR REVIEW	JL	BCK	15.12.16
2. FOR BID	JL	ECC	17.10.02

Issued
By: JL
Appd.: BCK, EKK, JLM, MD

File Name: _____
Dwn. Ck'd. Dsgn. YY.MM.DD

Permit
Town of Summerville
Marymeade Roadway Extension
Summerville, SC
Title
EROSION AND SEDIMENT CONTROL DETAILS
Project No. 178420680
Scale
Drawing No. Sheet
Revision

ROLLMAX™ ROLLED EROSION CONTROL

Specification Sheet - EroNet™ SC150® Erosion Control Blanket

DESCRIPTION
The extended-term double net erosion control blanket shall be a machine-produced mat of 70% agricultural straw and 30% coconut fiber with a functional longevity of up to 24 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw and coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a heavyweight photodegradable polypropylene netting having ultraviolet additives to delay breakdown and an approximate 0.63 x 0.63 in (1.59 x 1.59 cm) mesh, and on the bottom side with a light-weight photodegradable polypropylene netting with an approximate 0.50 x 0.50 (1.27 x 1.27 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The SC150 shall meet Type 3-B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administrator's (FHWA) FP-03 Section 713.17

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.30 in. (8.89 mm)
Resiliency	ECTC Guidelines	70%
Water Absorbency	ASTM D1117	342%
Mass/Unit Area	ASTM D6475	7.87 oz/sq. yd. (245.4 g/m²)
Soil Erosion Resistance	ECTC Guidelines	30%
Soil Stability	ASTM D1388	1.71 oz-in
Light Penetration	ASTM D6567	862.4 lbf/ft² (41.1 kN/m²)
Tensile Strength - MD	ASTM D6818	5.37 kN/m
Elongation - MD	ASTM D6818	29.4%
Tensile Strength - TD	ASTM D6818	196.8 lbf/ft (2.03 kN/m)
Elongation - TD	ASTM D6818	27.6%
Biomass Improvement	ASTM D7322	487%

Design Permissible Shear Stress	
Unvegetated Shear Stress	2.00 psf (96 Pa)
Unvegetated Velocity	8.0 fps (2.44 m/s)

Slope Design Data: C Factors			
Slope Length (L)	≤ 31	3.1 - 21	≥ 21
≤ 20 ft (6 m)	0.001	0.048	0.100
20-50 ft	0.051	0.079	0.145
≥ 50 ft (15.2 m)	0.10	0.10	0.150

Roughness Coefficients - Unveg.	
Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.050
0.50 - 2.0 ft	0.050-0.018
≥ 2.0 ft (0.60 m)	0.018

ROLLMAX™ ROLLED EROSION CONTROL

Specification Sheet - VMax™ SC250® Turf Reinforcement Mat

DESCRIPTION
The composite turf reinforcement mat (CTRM) shall be a machine-produced mat of 70% straw and 30% coconut fiber matrix incorporated into permanent three-dimensional turf reinforcement matting. The matrix shall be evenly distributed across the entire width of the matting and stitch bonded between a heavy duty UV stabilized nettings with 0.50 x 0.50 inch (1.27 x 1.27 cm) openings, an ultra heavy UV stabilized, dramatically corrugated (cristped) intermediate netting with 0.5 x 0.5 inch (1.27 x 1.27 cm) openings, and covered by an heavy duty UV stabilized nettings with 0.50 x 0.50 inch (1.27 x 1.27 cm) openings. The middle corrugated netting shall form permanent closely spaced ridges across the entire width of the mat. The three nettings shall be stitched together on 1.50 inch (3.81 cm) centers with UV stabilized polypropylene thread to form permanent three-dimensional turf reinforcement matting. All mats shall be manufactured with a colored thread stitched along both outer edges as an overlap guide for adjacent mats.

The SC250 shall meet Type SA, SB, and SC specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administrator's (FHWA) FP-03 Section 713.18

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.42 in. (10.75 mm)
Resiliency	ASTM 6524	95.2%
Density	ASTM D792	0.891 g/cm³
Mass/Unit Area	ASTM 6566	16.19 oz/sq. yd. (548 g/m²)
UV Stability	ASTM D4355/1003 HR	100%
Porosity	ECTC Guidelines	99%
Stiffness	ASTM D3388	222.65 oz-in.
Light Penetration	ASTM D6567	4.1%
Tensile Strength - MD	ASTM D6818	709 lbf/ft (10.51 kN/m)
Elongation - MD	ASTM D6818	23.9%
Tensile Strength - TD	ASTM D6818	712 lbf/ft (10.56 kN/m)
Elongation - TD	ASTM D6818	36.9%
Biomass Improvement	ASTM D7322	447%

Design Permissible Shear Stress		
Short Duration	Long Duration	
Phase 1: Unvegetated	3.0 psf (144 Pa)	2.5 psf (120 Pa)
Phase 2: Partially Veg.	8.0 psf (383 Pa)	8.0 psf (383 Pa)
Phase 3: Fully Veg.	10.0 psf (480 Pa)	8.0 psf (383 Pa)
Unvegetated Velocity	5.5 fps (2.0 m/s)	
Vegetated Velocity	15 fps (4.6 m/s)	

Material Content	
70% Straw Fiber	0.35 lbs/sq yd (0.39 kg/cm²)
30% Coconut Fiber	0.15 lbs/sq yd (0.18 kg/cm²)
Top and Bottom, UV-Stabilized Polypropylene	5 lb/1000 sq ft (2.44 kg/100 m²)
Middle, Corrugated UV-Stabilized Polypropylene	24 lb/1000 sq ft (0.24 kg/cm²)

Standard Roll Sizes	
Width	6.5 ft (2.0 m)
Length	55.5 ft (16.9 m)
Weight at 10%	34 lbs (15.4 kg)
Area	40 sq yd (33.4 sq m)

Tensar NORTH AMERICAN GREEN

Slope Design Data: C Factors	Roughness Coefficients - Unveg.
Slope Length (L)	Flow Depth
≤ 31	≤ 0.50 ft (0.15 m)
3.1 - 21	0.048
≥ 21	0.050 - 0.018
0.001	0.50 - 2.0 ft
0.0209	≥ 2.0 ft (0.60 m)
0.0507	0.011
0.0081	
0.0266	
0.0574	
0.0455	
0.0555	
0.081	

Tensar International Corporation
2502 Northwoods Parkway
Suite 500
Alpharetta, GA 30009
800-TENSAR-1
tensarcorp.com

Tensar International Corporation warrants that at the time of delivery the product furnished hereunder shall conform to the specification stated herein. Any other warranty including merchantability and fitness for a particular purpose, are hereby excluded. If the product does not meet specifications on this page and Tensar is notified prior to installation, Tensar will replace the product at no cost to the customer. This product specification supersedes all other specifications for the product described above and is not applicable to any products shipped prior to January 1, 2015.



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Consultants

Legend

- FLOODWAY
- EASEMENT LINES
- PROPERTY LINE
- FEMA FLOOD LINE
- LD LIMIT OF DISTURBANCE

Notes

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2. CLEARING LIMITS TO BE STAKED PER THE LIMITS OF DISTURBANCE LINE AS SHOWN ON THE EROSION CONTROL SHEETS. ALL TREES TO BE REMOVED IN THIS AREA.

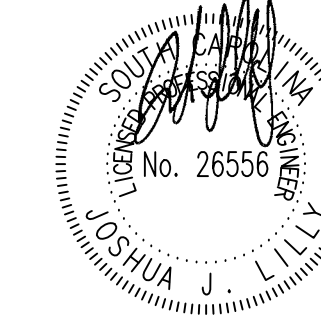
APPROVED FOR CONSTRUCTION

Revision	By	Appd.	YY.MM.DD

2. FOR BID	JJL	EKC	17.10.02
1. FOR REVIEW	JJL	BDK	15.12.16
Issued	By	Appd.	YY.MM.DD

File Name:	Dwn.	Chkd.	Desgn.	YY.MM.DD

Permit



October 2, 2017

OWNER
Town of Summerville

Marymeade Roadway Extension

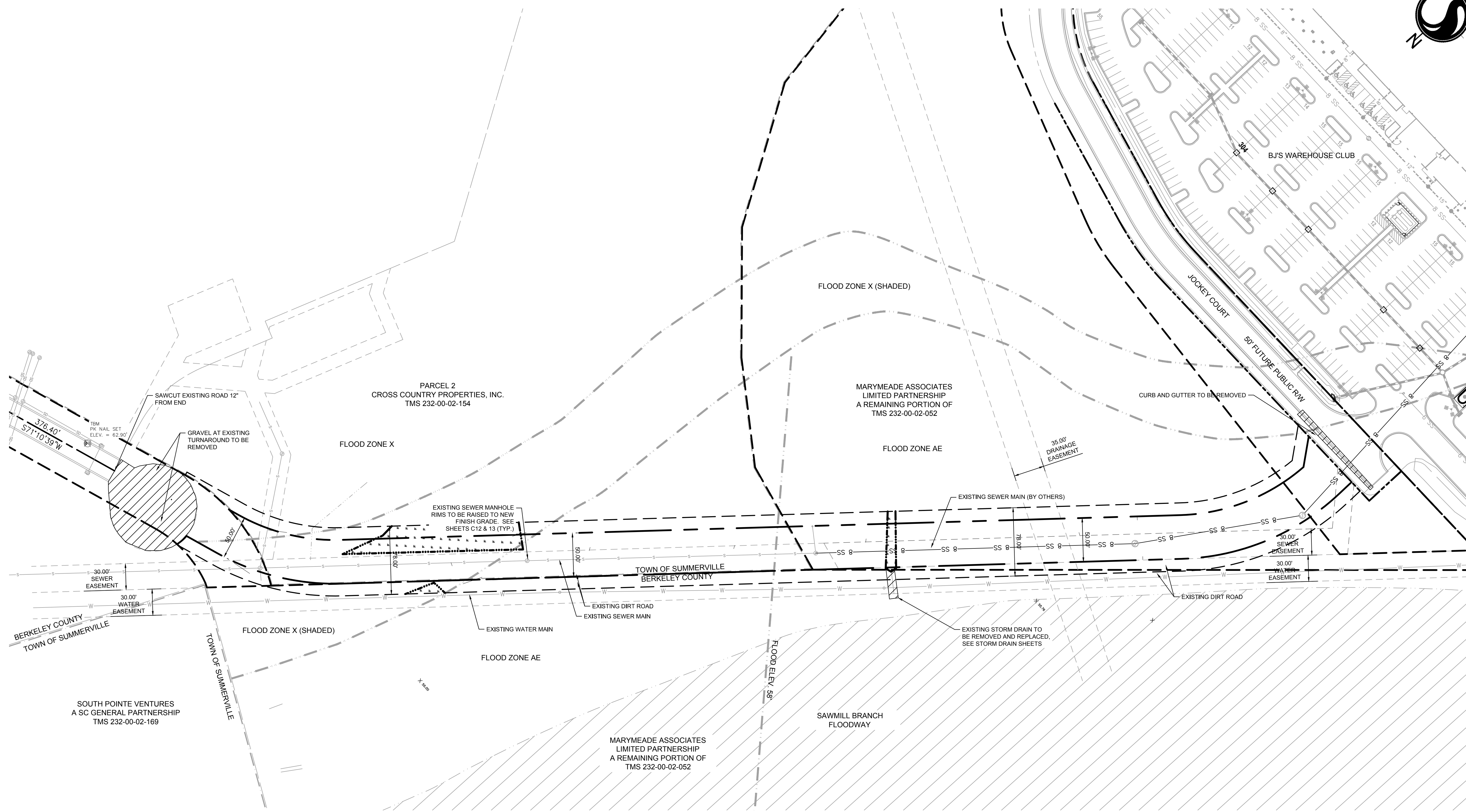
Summerville, SC

Title

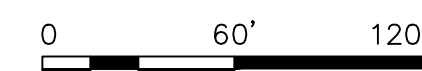
DEMOLITION PLAN

Project No.	Scale	
178420680		
Drawing No.	Sheet	Revision

C8 8 of 16 0



OVERALL ROADWAY PLAN



Know what's below.
Call before you dig.



- FLOODWAY
- EASEMENT LINES
- PROPERTY LINE
- FEMA FLOOD LINE
- LD LIMIT OF DISTURBANCE

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Revision	By	Appd.	YY.MM.DD
2. FOR BID	JJL	EKC	17.10.02
1. FOR REVIEW	JJL	BKD	15.12.16
Issued			

File Name: _____ Dwn. Crkd. Dgn. YY.MM.DD

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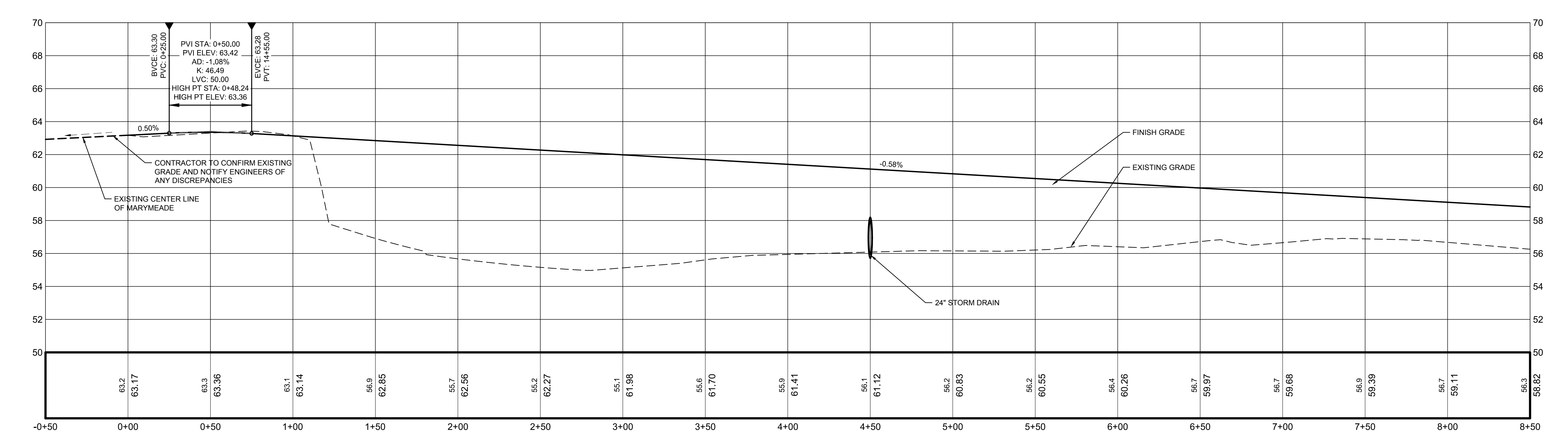
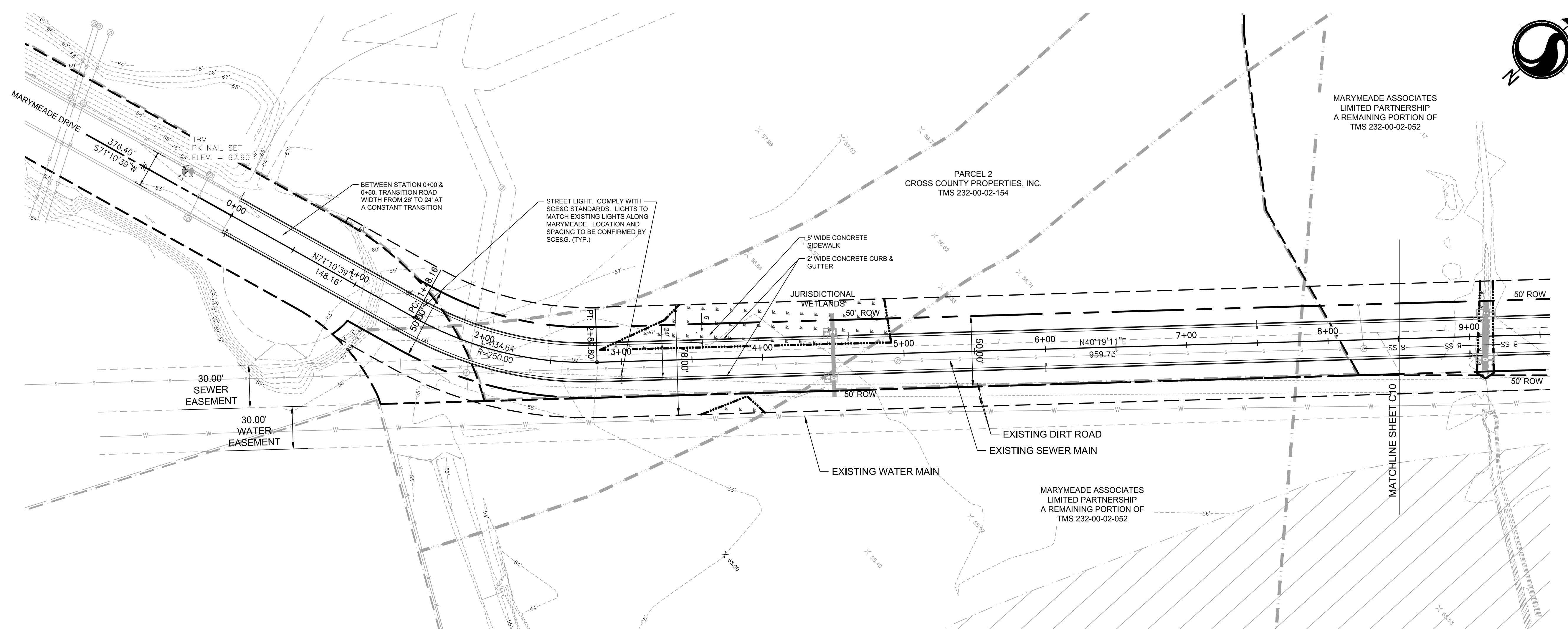
OWNER
Town of Summerville

Marymeade Roadway Extension

Summerville, SC

Title
ROADWAY PLAN AND PROFILE
STA 0+00 - 8+50

Project No. 178420680 Scale
Drawing No. Sheet Revision








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Consultants

Legend

-  FLOODWAY
-  EASEMENT LINES
-  PROPERTY LINE
-  FEMA FLOOD LINE
-  LD LIMIT OF DISTURBANCE

Notes

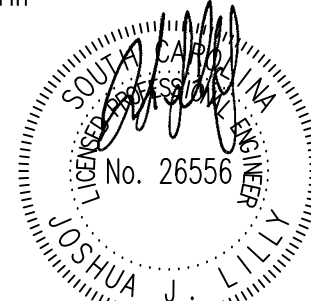

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1. FOR REVIEW	JJL	BKD	15.12.16

File Name:	Dwn.	Chkd.	Dign.	YY.MM.DD

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October 2, 2017

OWNER
Town of Summerville

Marymeade Roadway Extension

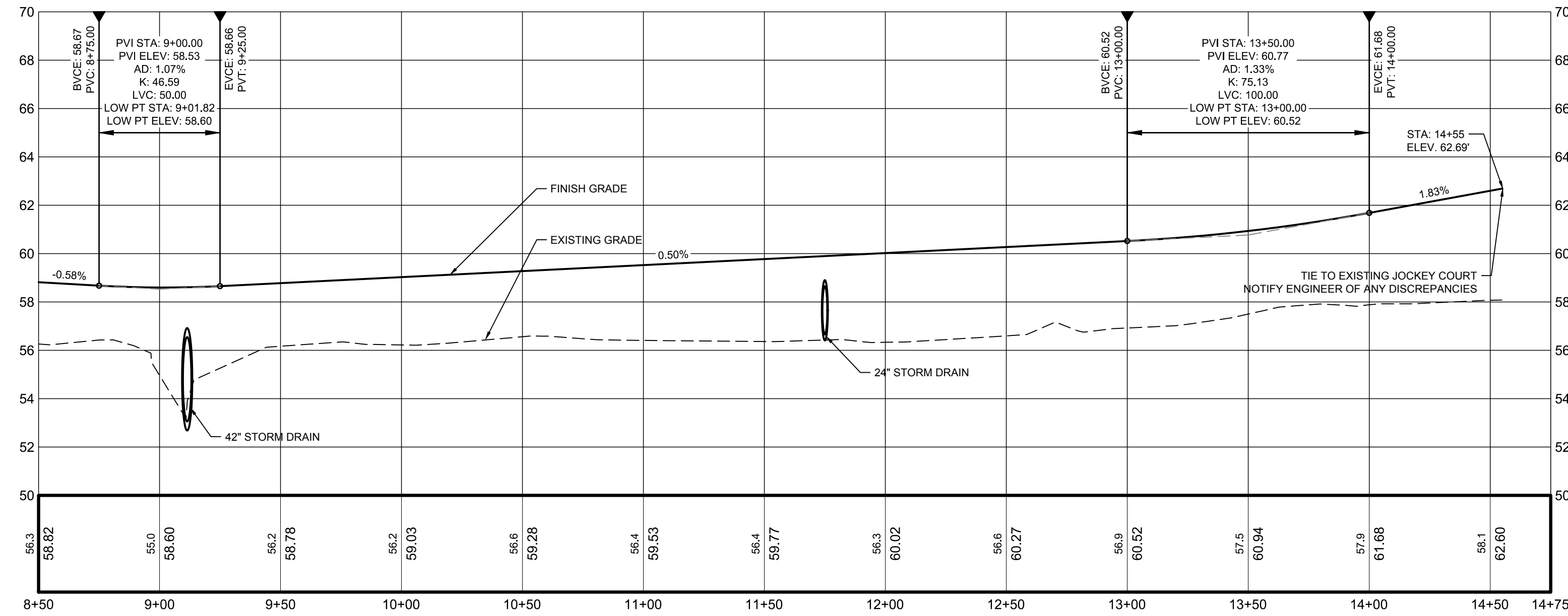
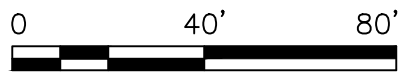
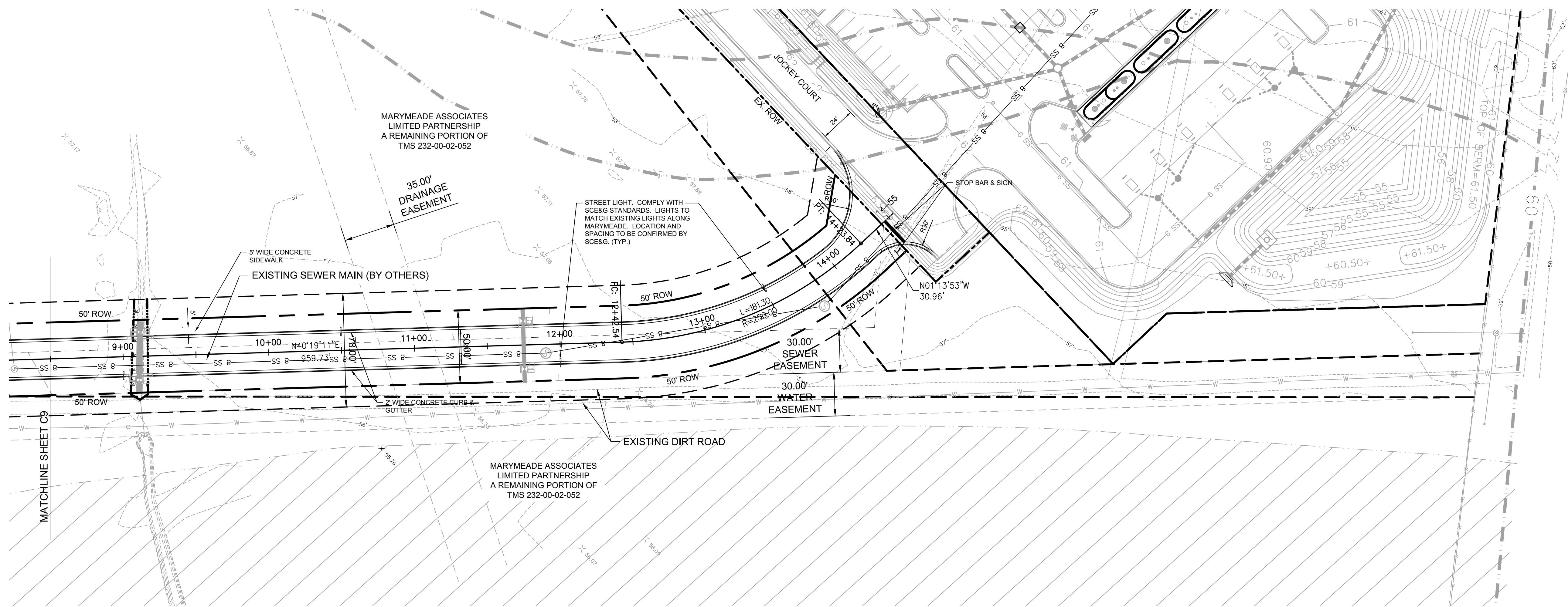
Summerville, SC

Title

ROADWAY PLAN AND PROFILE
STA 8+50 - 14+55

Project No.	Scale
178420680	

Drawing No.	Sheet	Revision
C10	10 of 16	0



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2. FOR BID	JJL	EKC	17.10.02
1. FOR REVIEW	JJL	BDK	15.12.16
Issued			YY.MM.DD

File Name: _____
 Date: _____
 Chkd. _____
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October 2, 2017

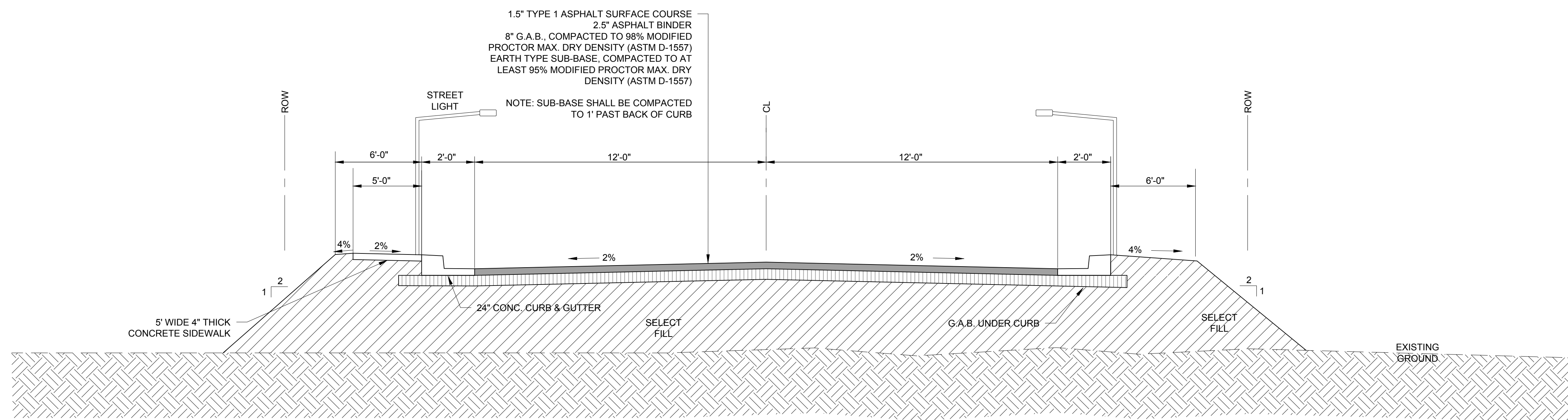
OWNER
 Town of Summerville

Marymeade Roadway Extension

Summerville, SC

Title
 ROADWAY CONSTRUCTION DETAILS

Project No. 178420680 Scale
 Drawing No. _____ Sheet _____ Revision _____

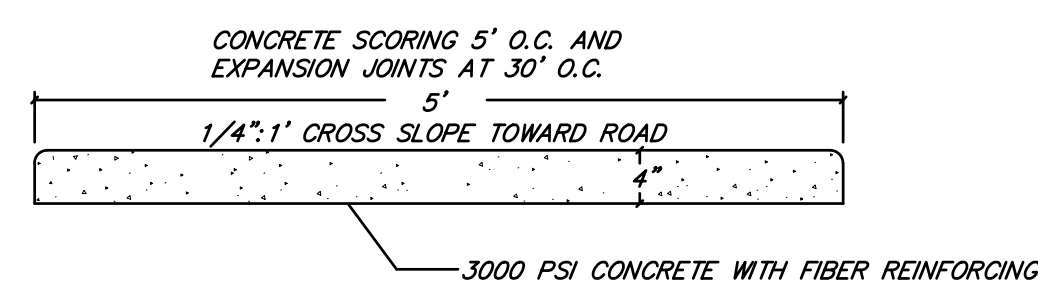


- NOTE:
- ROADS ARE TO BE COMPACTED TO 1' PAST THE BACK OF CURB
 - FOR MORE INFORMATION, REFER TO THE GEOTECHNICAL REPORT ENTITLED "PAVEMENT THICKNESS DESIGN MARYMEADE ROADWAY EXTENSION" BY GBT REALTY CORPORATION DATED DECEMBER 7, 2015.

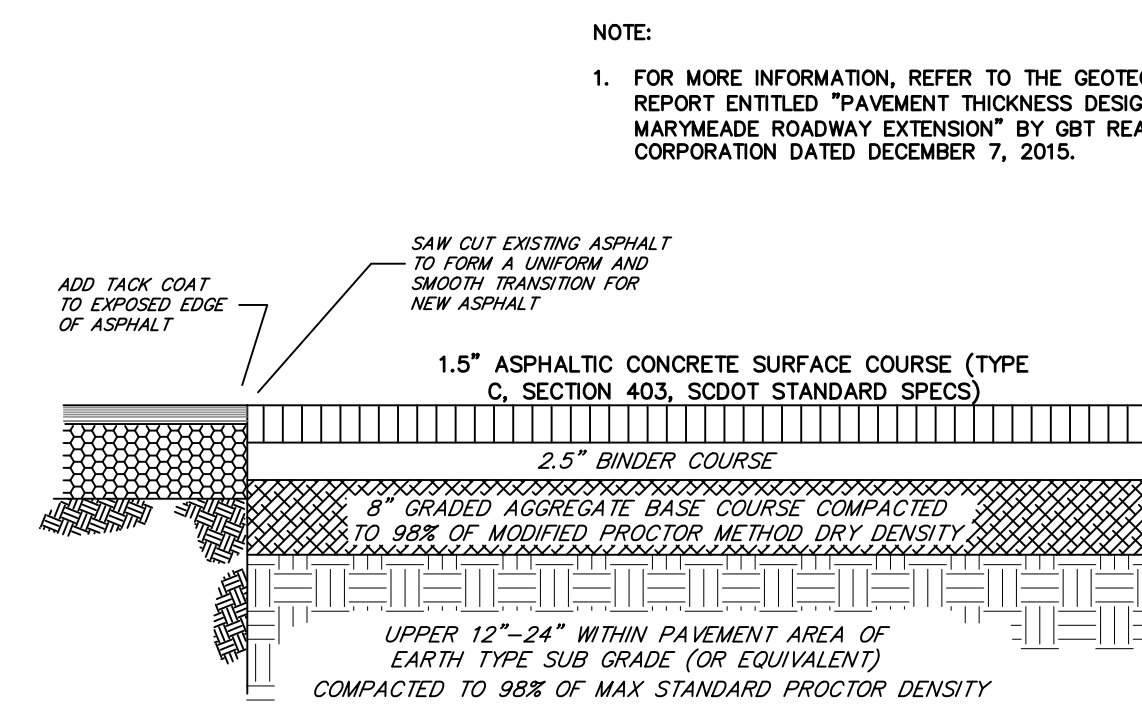
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 PAVEMENT SECTION (TYP.)
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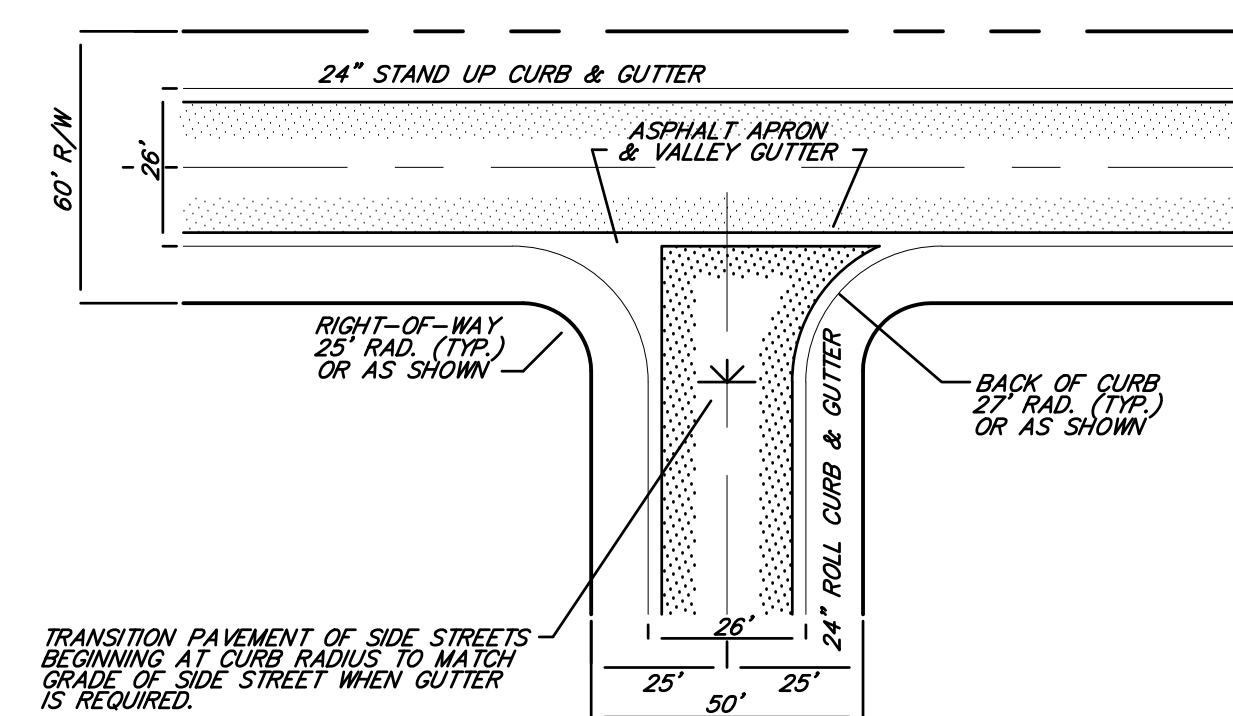
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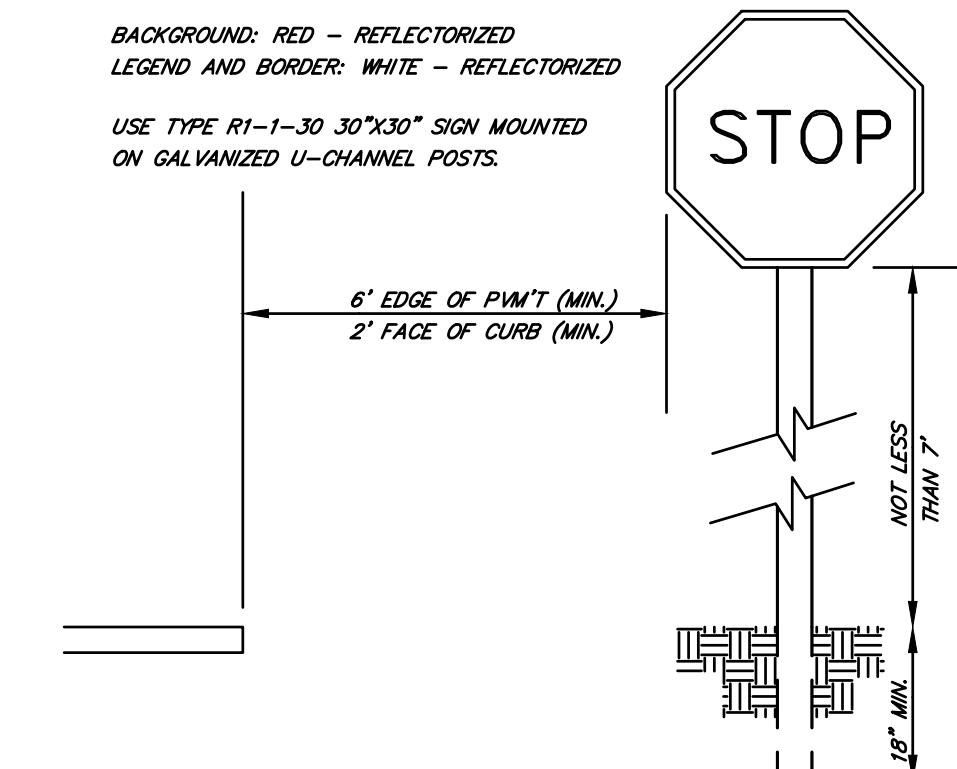
TYP. SIDEWALK DETAIL
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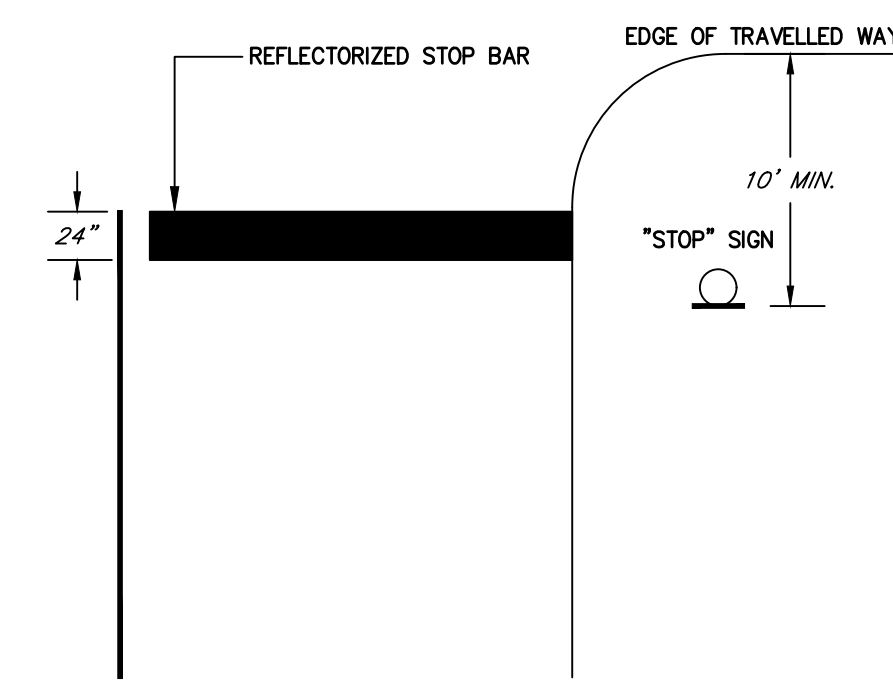
ASPHALT PAVEMENT SECTION
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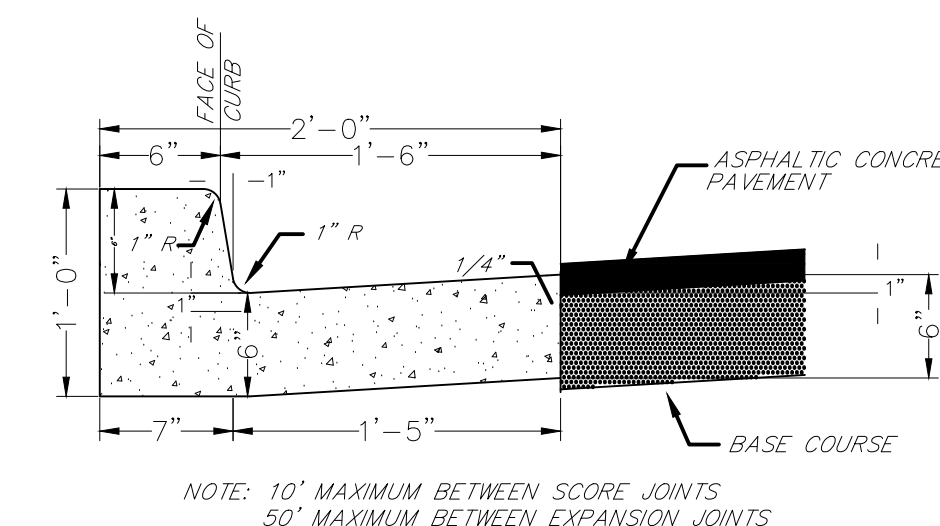
TYPICAL INTERSECTION DETAIL
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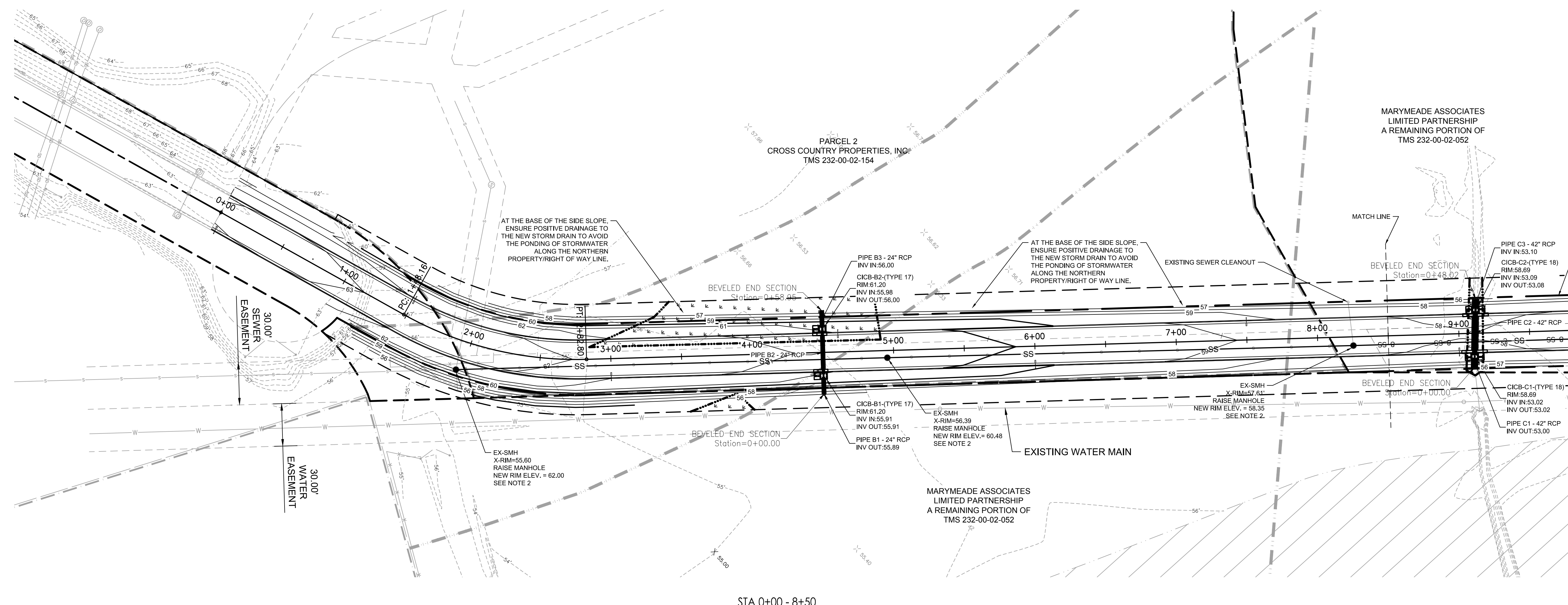
STOP SIGN DETAIL
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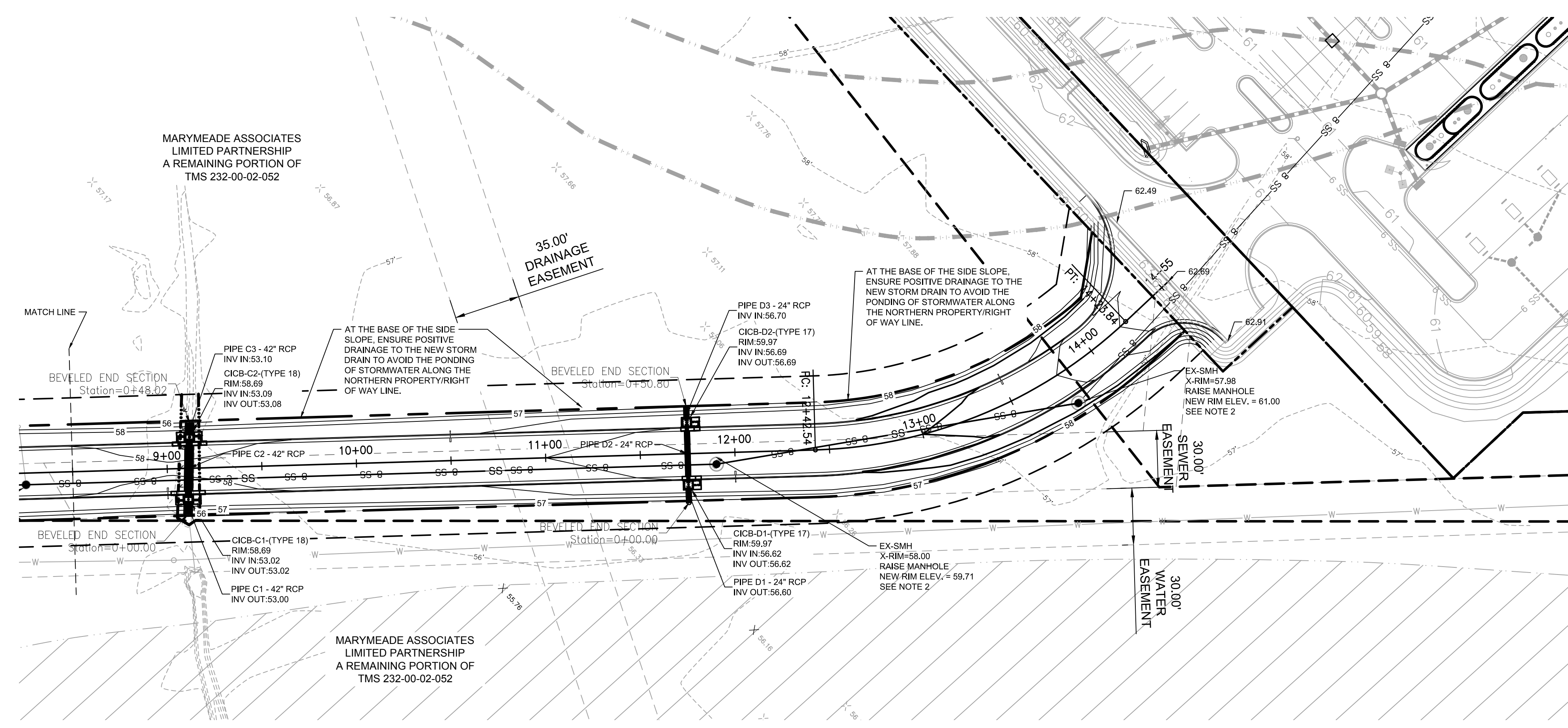
STOP BAR DETAIL
 N.T.S.



24\"/>



STA 0+00 - 8+50



STA 8+50 - 14+55

Notes

- ALL SEWER MANHOLES TO BE RAISED TO BE FLUSH WITH THE FINISH GRADE ELEVATION. SEE DETAIL.
- ON SEWER MANHOLES THAT NEED TO BE RAISED, THERE CAN NOT BE MORE THAN 18" OF RISER BETWEEN THE MANHOLE CONES AND THE BOTTOM OF THE FRAME/COVER. EXISTING MANHOLE CONE TO BE REPLACED WITH A TALLER CONE OR A REPLACED WITH A NEW RISER SECTION UNDER THE EXISTING CONE.
- ALL STORMWATER INLETS TO BE FITTED WITH THE FLEXSTORM PURE INLET FILTERS. PROVIDE 6 TOTAL.
- AT THE SIGNED/SEALED DATE OF THESE PLANS, THE BJS SITE AND SUPPORTING INFRASTRUCTURE HAVE NOT BEEN CONSTRUCTED. HOWEVER, IT IS ANTICIPATED AND ASSUMED THAT THE BJS SITE AND OFFSITE INFRASTRUCTURE WILL HAVE BEEN CONSTRUCTED PRIOR TO COMMENCEMENT OF CONSTRUCTION FOR THE MARYMEADE DR. EXTENSION.

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Town of Summerville

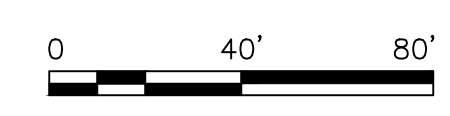
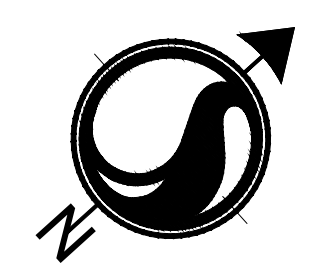
Marymeade Roadway Extension

Summerville, SC

Title
ROADWAY STORM DRAINAGE PLAN

Project No. 178420680	Scale
Drawing No. C12	Sheet 12 of 16
Revision	0

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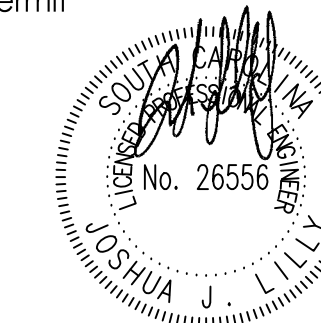
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Town of Summerville

Marymeade Roadway Extension

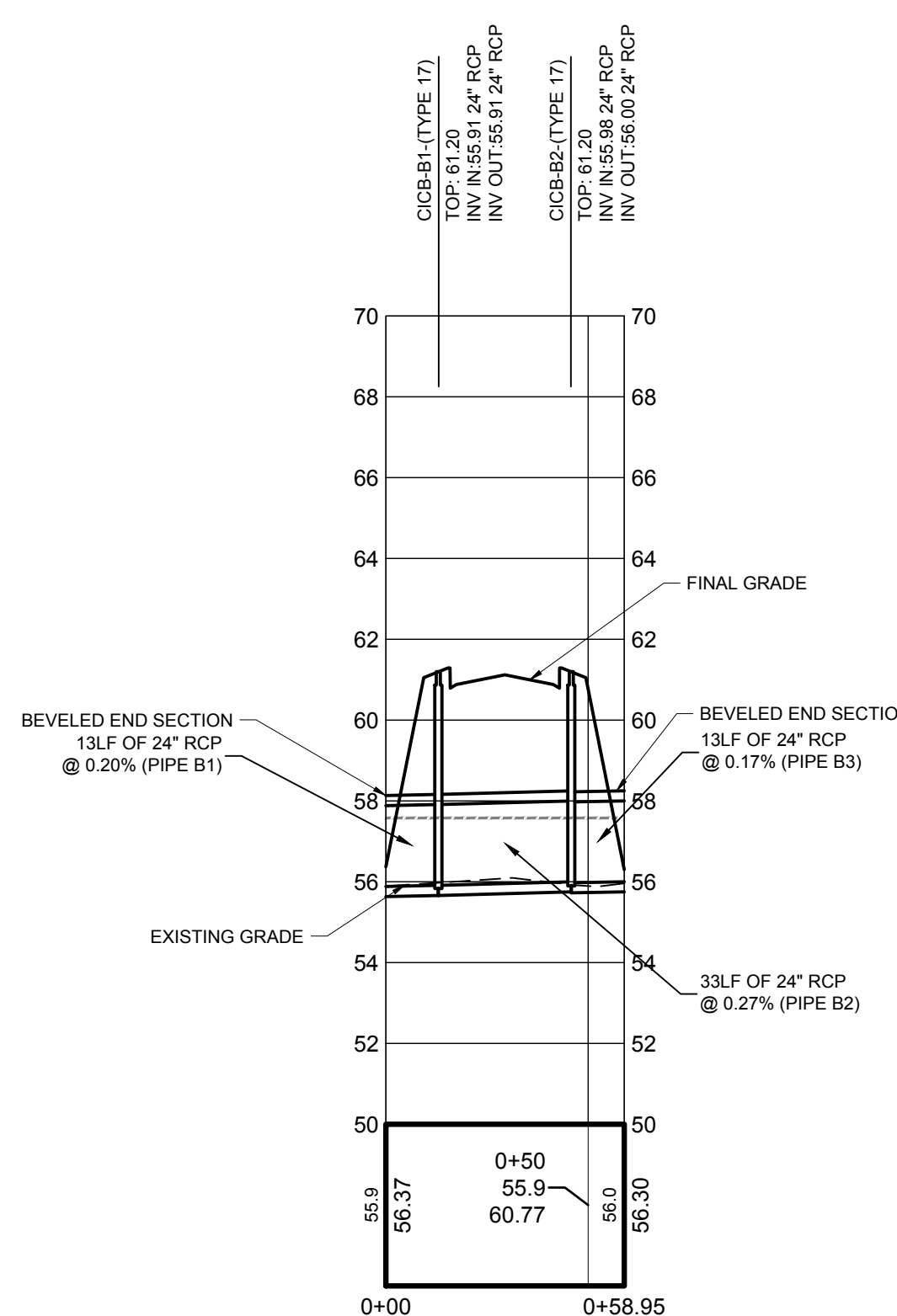
Summerville, SC

Title
STORM DRAINAGE PROFILES

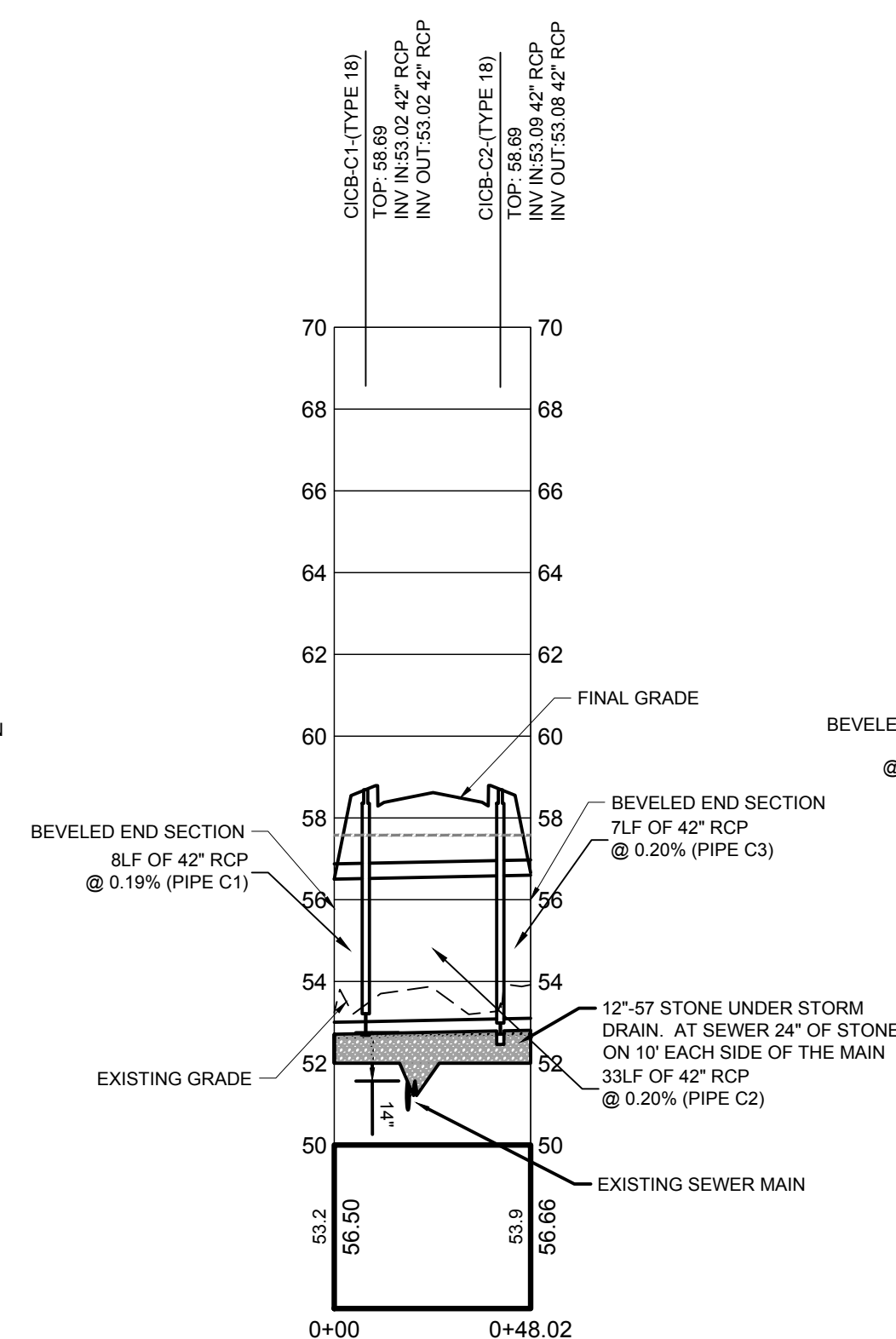
Project No. 178420680 Scale

Drawing No. Sheet Revision

C13 13 of 16 0

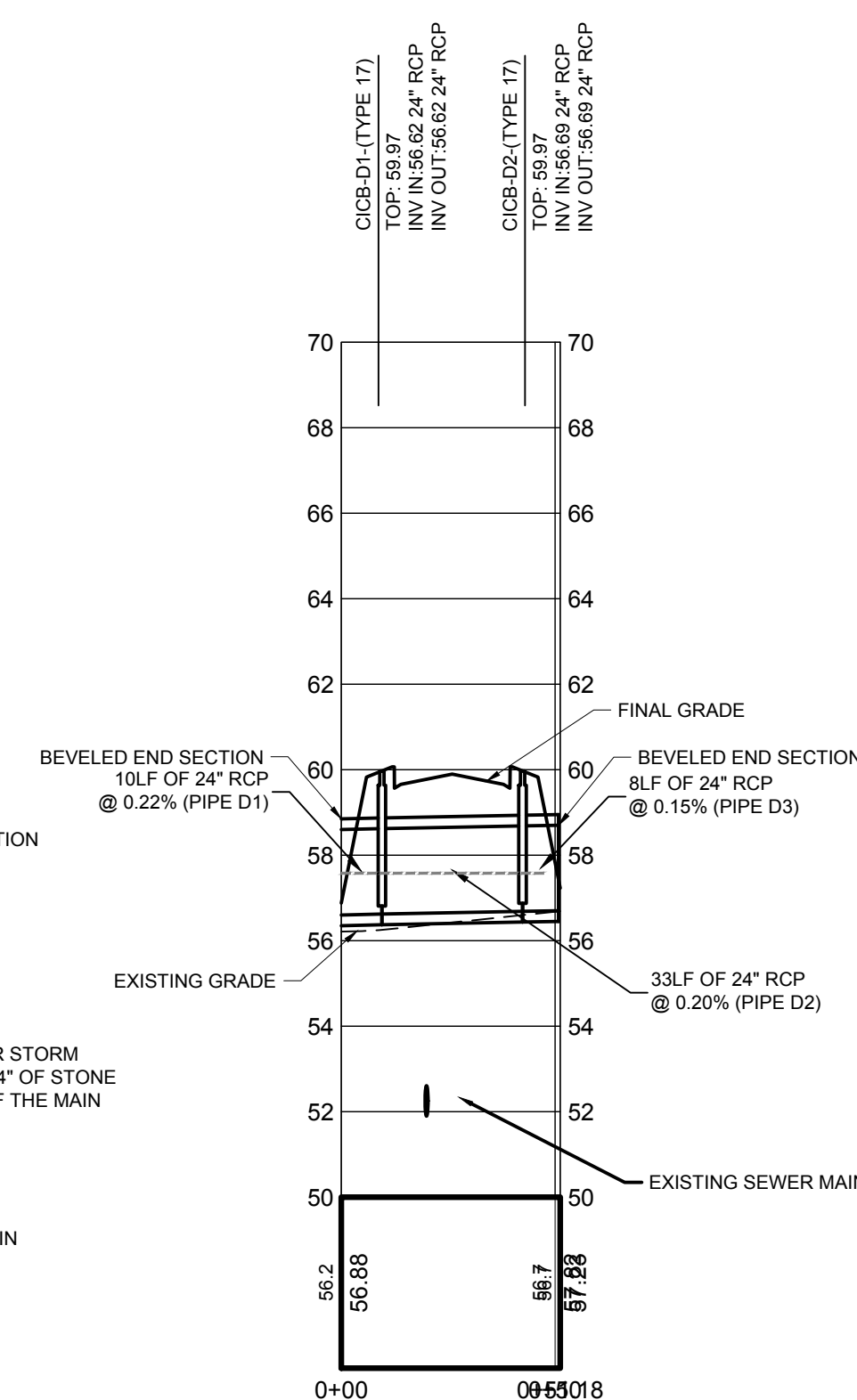


RUN B PROFILE
SCALE: H: 1"=40'
V: 1"=4'



RUN-C PROFILE
SCALE: H: 1"=40'
V: 1"=4'

SUMMERVILLE CPW IS TO BE NOTIFIED 72 HOURS PRIOR TO THE INSTALLATION OF RUN-C. A REPRESENTATIVE FROM SUMMERVILLE CPW MUST BE ON SITE DURING THE INSTALLATION.



RUN-D PROFILE
SCALE: H: 1"=40'
V: 1"=4'

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1. FOR REVIEW	JLL	BDK	15.12.16
2. FOR BID	JLL	EKC	17.10.02
Issued	By	Appd.	YY.MM.DD

File Name: _____
Dwn. Chkd. Dgnr. YY.MM.DD

Permit _____

October 2, 2017

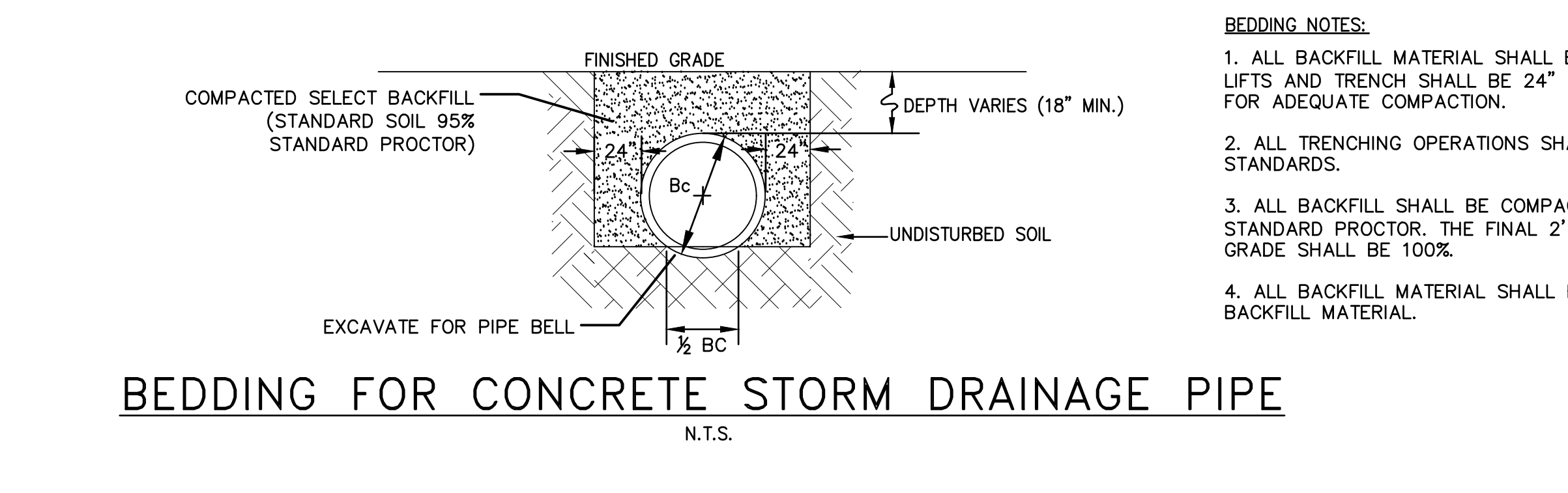
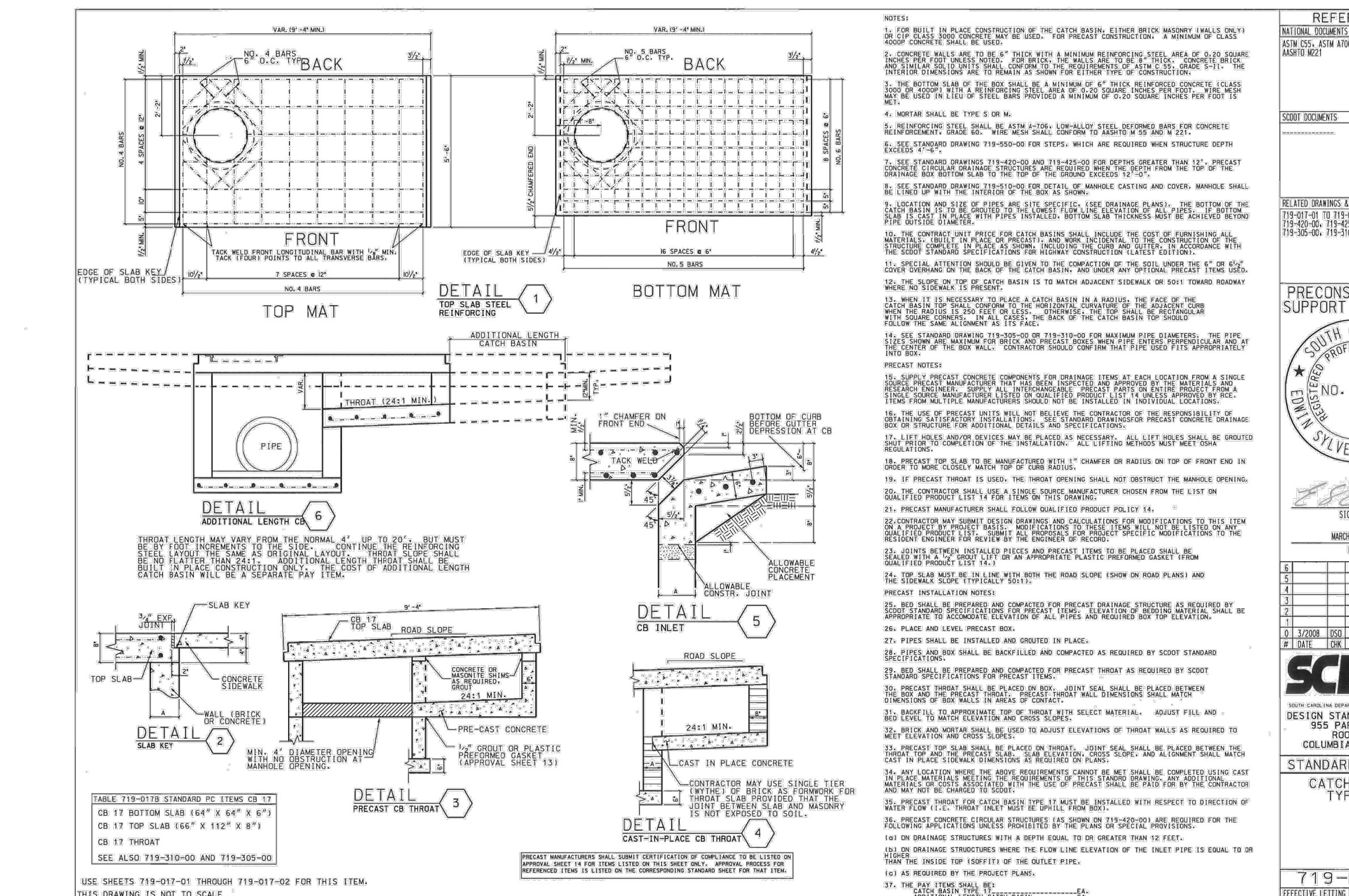
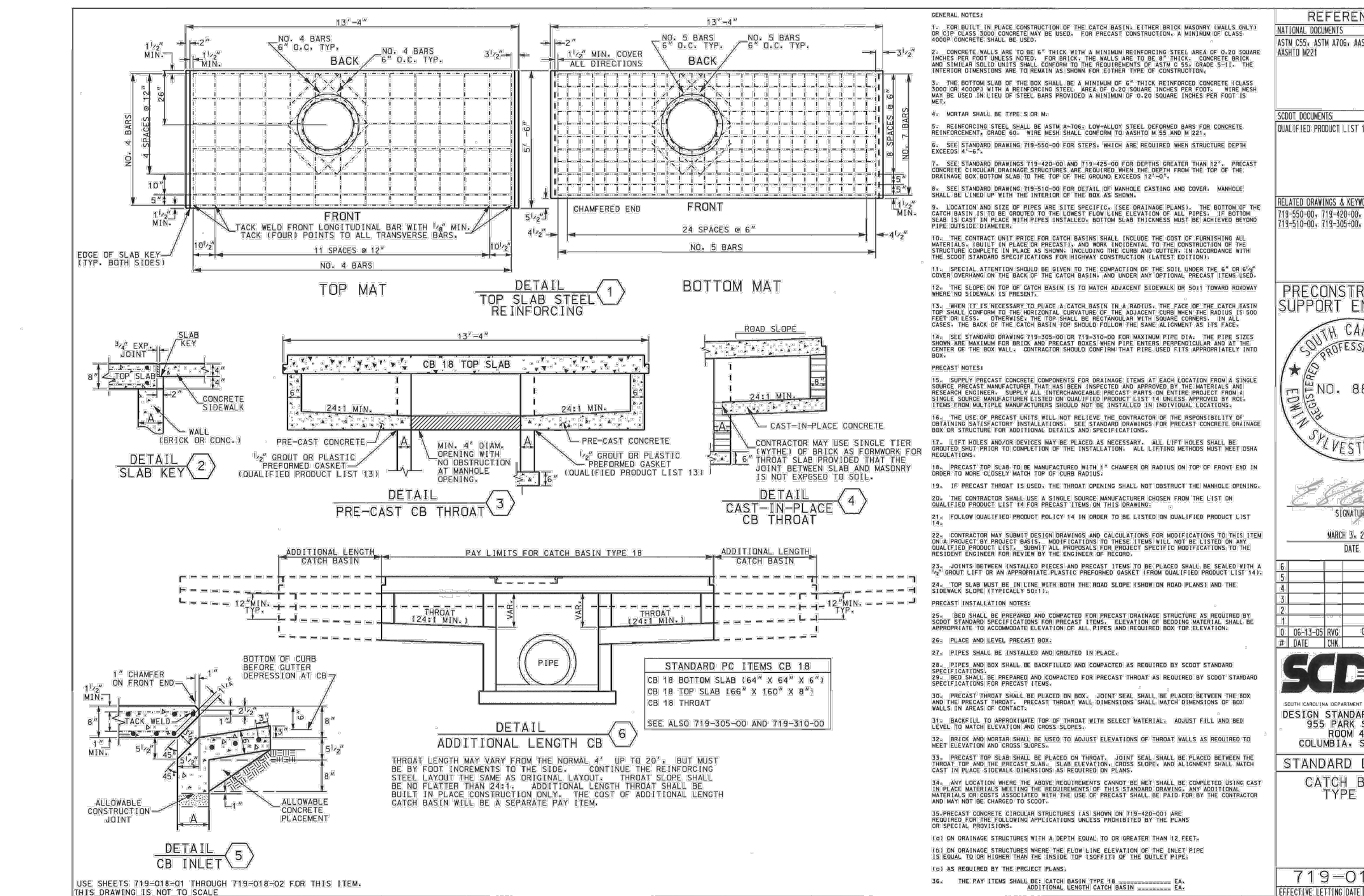
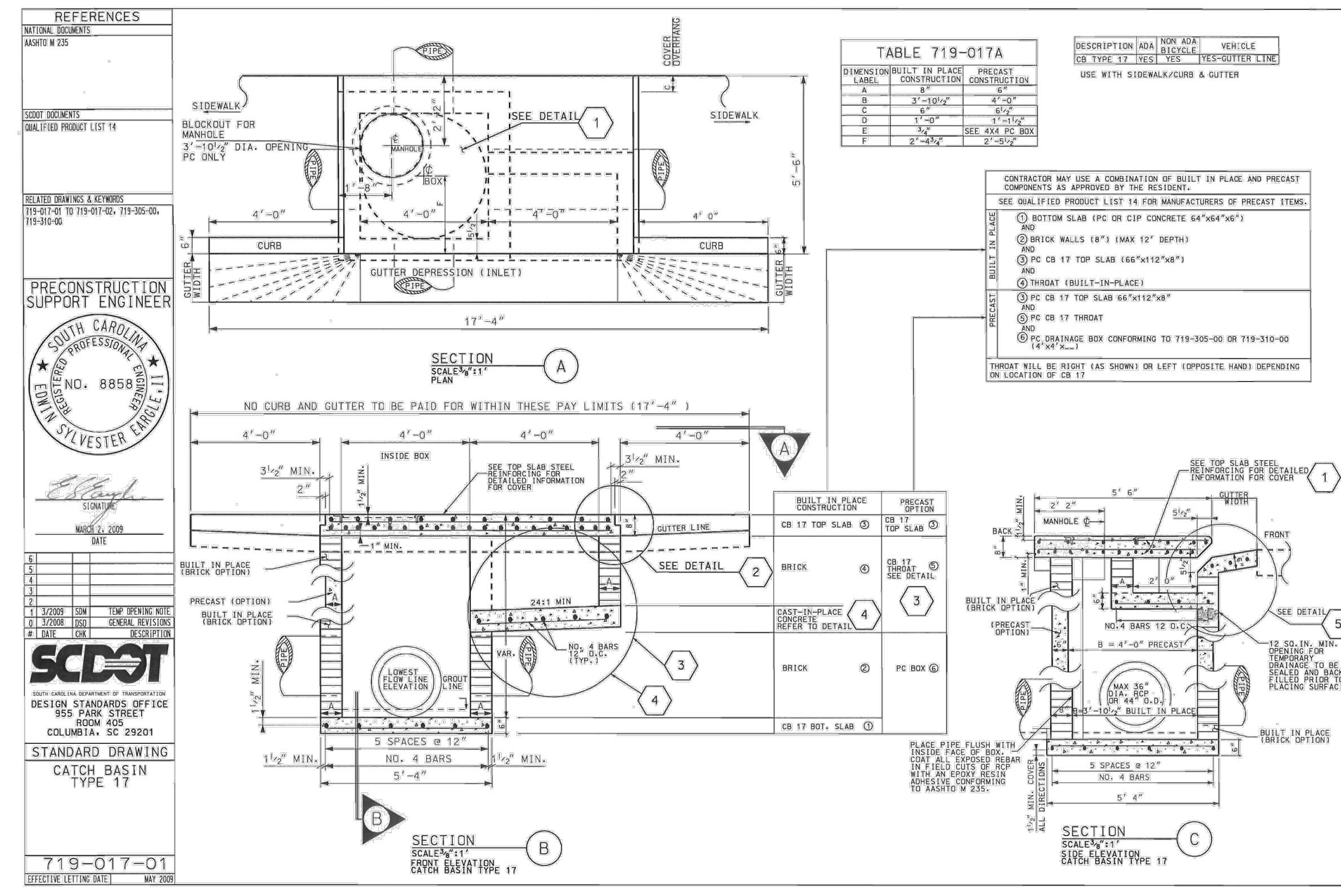
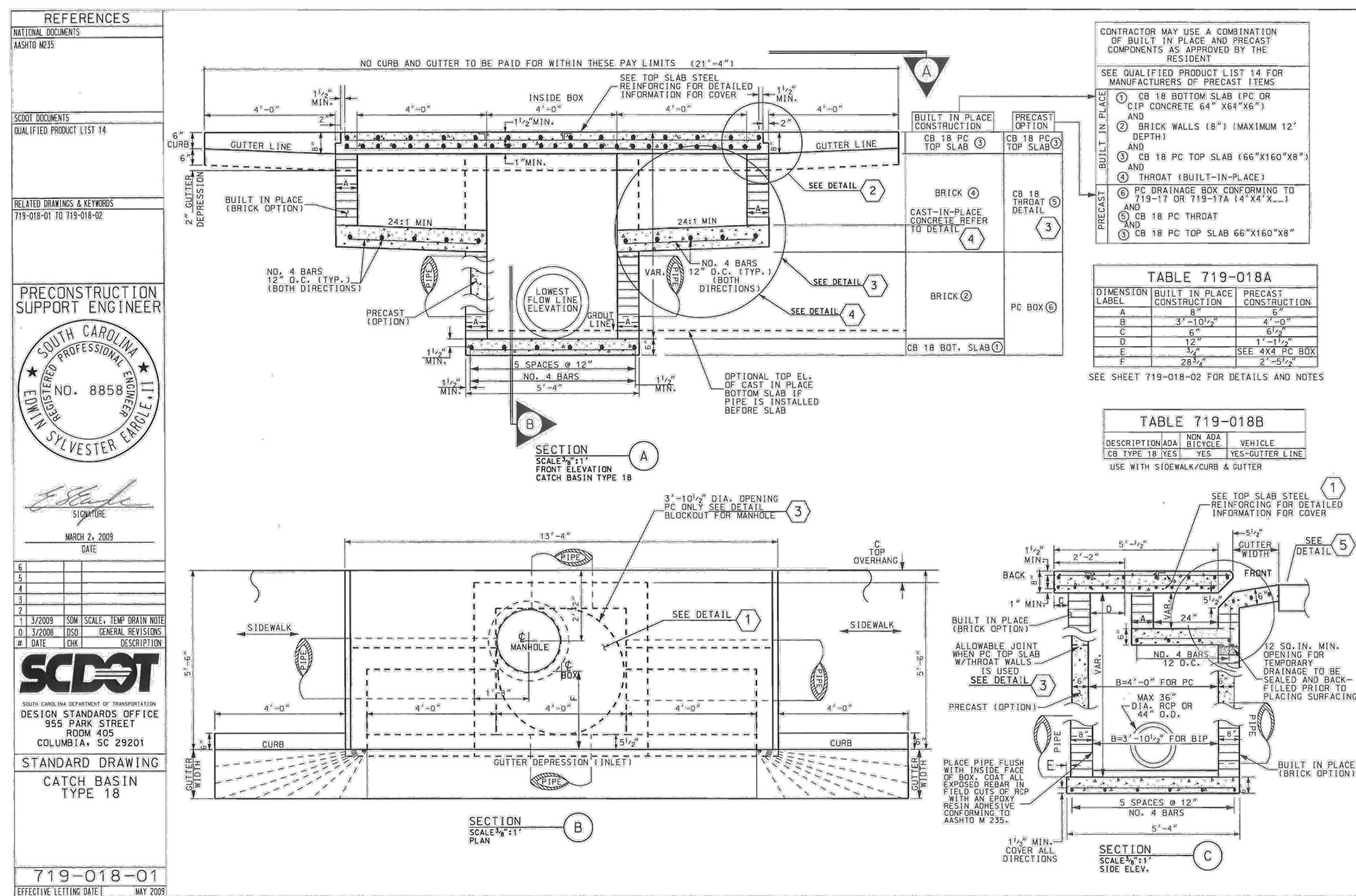
OWNER
Town of Summerville

Marymeade Roadway Extension

Summerville, SC

Title
STORM DRAINAGE DETAILS

Project No. 178420680 Scale
Drawing No. C14 Sheet Revision



- BEDDING NOTES.**
- ALL BACKFILL MATERIAL SHALL BE PUT IN 6" LIFTS AND TRENCH SHALL BE 24" BEYOND PIPE O.D. FOR ADEQUATE COMPACTION.
 - ALL TRENCHING OPERATIONS SHALL MEET OSHA STANDARDS.
 - ALL BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR. THE FINAL 2' BELOW FINISHED GRADE SHALL BE 100%.
 - ALL BACKFILL MATERIAL SHALL BE SELECT BACKFILL MATERIAL.

Know what's below.
Call before you dig.



V:\1784\active\17842068-Marymeade\urbon_lbrd\dwg\prep\sheet\811-Storm.dwg
2017/10/20 10:30 AM by: JLL

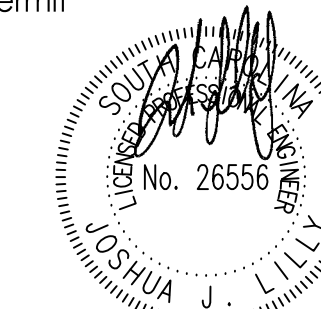
- AT THE SIGNED/SEALED DATE OF THESE PLANS, THE B.J.'S SITE AND SUPPORTING INFRASTRUCTURE HAVE NOT BEEN CONSTRUCTED. HOWEVER, IT IS ANTICIPATED AND ASSUMED THAT THE B.J.'S SITE AND OFFSITE INFRASTRUCTURE WILL HAVE BEEN CONSTRUCTED PRIOR TO COMMENCEMENTS OF CONSTRUCTION FOR THE MARYMEADE DR. EXTENSION.

APPROVED FOR CONSTRUCTION

Revision	By	Appd.	YY.MM.DD
2. FOR BID	JLL	EKC	17.10.02
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October 2, 2017

OWNER

Town of Summerville

Marymeade Roadway Extension

Summerville, SC

Title

STORM DRAINAGE AND SANITARY SEWER
DETAILS

Project No.	Scale	
178420680		
Drawing No.	Sheet	Revision

C15

15 of 16

0

Product selection for FLEXSTORM PURE Filters (Permanent Inlet Protection)											
Standard	Inlet Type	Grate Size	Clear Opening Size	Bag Cap. (ft ³)	Flow Ratings (CFS)			FX	FX+	PC	PD+
					FMFX+	PCPC+	Bypass				
36" Open Throat Inlet	Open Throat (WM)	N/A	36	2.5	1.9	1.4	N/A	62HDWM36FX	62HDWM36FXP	62HDWM36PC	62HDWM36PCP
42" Open Throat Inlet	Open Throat (WM)	N/A	42	3.0	2.5	1.7	N/A	62HDWM42FX	62HDWM42FXP	62HDWM42PC	62HDWM42PCP
48" Open Throat Inlet	Open Throat (WM)	N/A	48	3.3	2.8	2.2	N/A	62HDWM48FX	62HDWM48FXP	62HDWM48PC	62HDWM48PCP
60" Open Throat Inlet (2 piece)	Open Throat (WM)	N/A	60	4.2	3.6	2.6	N/A	62HDWM60FX	62HDWM60FXP	62HDWM60PC	62HDWM60PCP
84" Open Throat Inlet (2 piece)	Open Throat (WM)	N/A	84	5.8	5.0	3.4	N/A	62HDWM84FX	62HDWM84FXP	62HDWM84PC	62HDWM84PCP
96" Open Throat Inlet (2 piece)	Open Throat (WM)	N/A	96	6.6	5.6	4.4	N/A	62HDWM96FX	62HDWM96FXP	62HDWM96PC	62HDWM96PCP
120" Open Throat Inlet (3 piece)	Open Throat (WM)	N/A	120	9.0	7.5	5.1	N/A	62HDWM120FX	62HDWM120FXP	62HDWM120PC	62HDWM120PCP
48" Open Throat with Side Wings	Open Throat (WM)	N/A	48 Winged	5.1	2.7	1.7	N/A	62HDWM4818FX	62HDWM4818FXP	62HDWM4818PC	62HDWM4818PCP

EASY INSTALL WALL MOUNT BRACKETS
304 STAINLESS STEEL FRAMING
REPLACEABLE BAG WITH HYBRID CARBON MEDIA

FLEXSTORM HDWM WALL MOUNT INLET FILTERS FOR OPEN THROAT GUTTERS (2 piece set for 6", 7", 8")

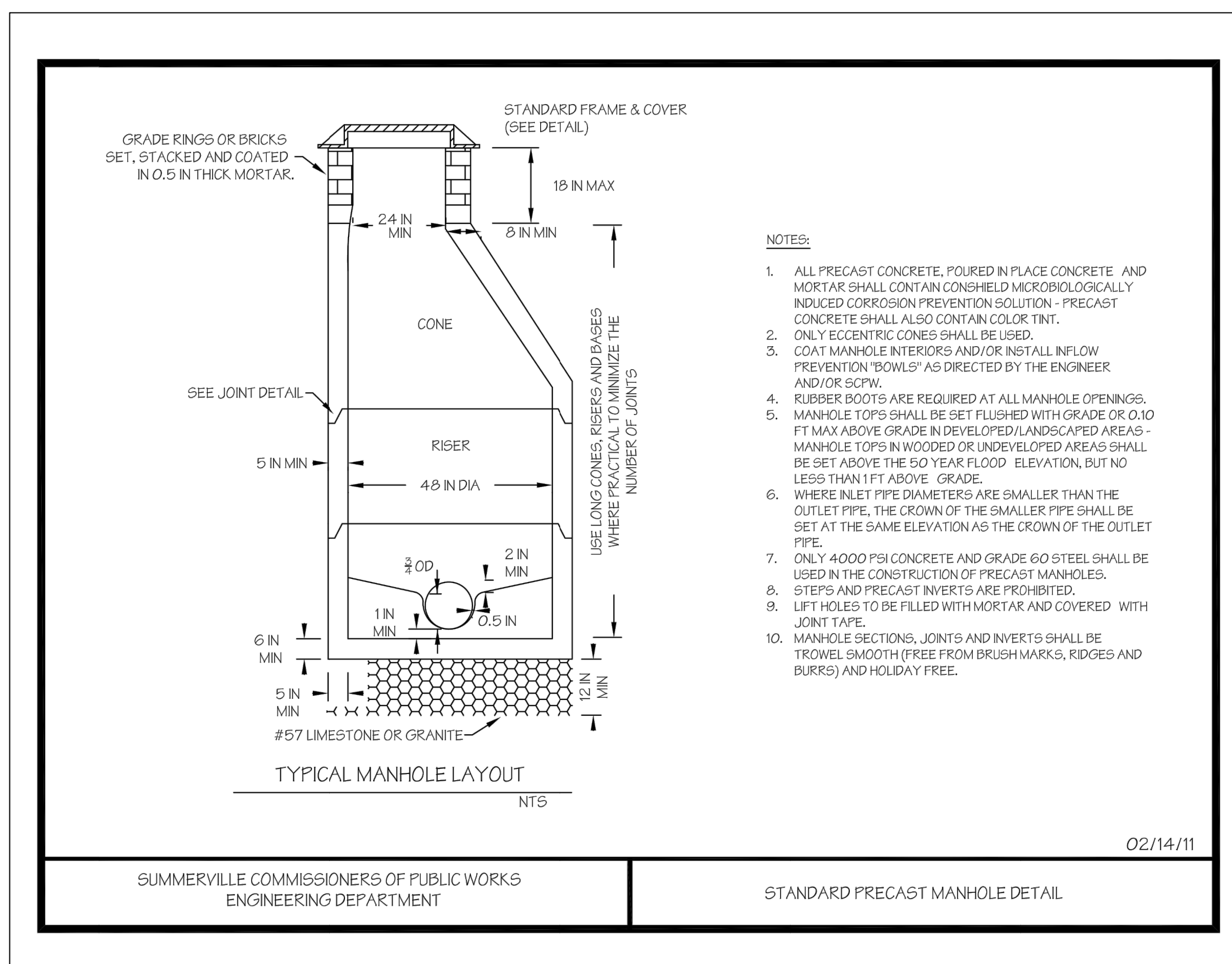
INSTALLATION AND MAINTENANCE INSTRUCTIONS

- ENTER MANHOLE OPENING WITH INLET FILTER AND MOUNTING HARDWARE
- ALIGN FILTER FRAME WITH CURB OPENING AND MARK CENTERLINE OF EACH FRAME HANGER BRACKET
- USING SUPPLIED WALL MOUNT BRACKETS, MARK LOCATION OF BRACKET SCREW HOLES SPACED 1" DOWN FROM TOP LEDGE OF CONCRETE.
- USING HAMMER DRILL, DRILL HOLE TO RECOMMENDED DEPTH OF SPECIFIED FASTENER.
- SECURE THE WALL MOUNT BRACKETS USING CONCRETE FASTENERS AND HANG THE FLEXSTORM INLET ASSEMBLY.
- FOR MAINTENANCE LIFT THE FILTER FRAME OFF MOUNTING BRACKETS AND CARRY UP THROUGH MANHOLE OPENING. ALTERNATIVELY SERVICE WITH TRUCK MOUNTED VACUUM.

INSTALLATION DETAIL

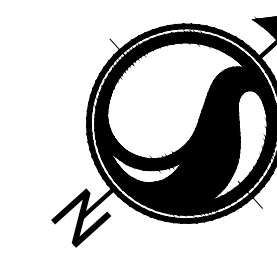
ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 287-8655 PH (630) 355-3477 FX INFO@INLETFILTERS.COM

DATE: _____ TIME: _____ DRAW NO: _____
C HD _____
SHEET 1 OF 1



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Consultants

Legend

Notes

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October 2, 2017



OWNER

Town of Summerville

Marymeade Roadway Extension

Summerville, SC

Title

OFF SITE PLANTING PLAN

Project No.	Scale
178420680	

Drawing No.	Sheet	Revision

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