

NOTE:
IT IS CONTRACTORS RESPONSIBILITY TO VERIFY THAT
THEY AND THEIR SUBCONTRACTORS HAVE THE
CORRECT/MOST UP-TO-DATE PLANS AVAILABLE.



UNIVERSITY OF
SOUTH CAROLINA

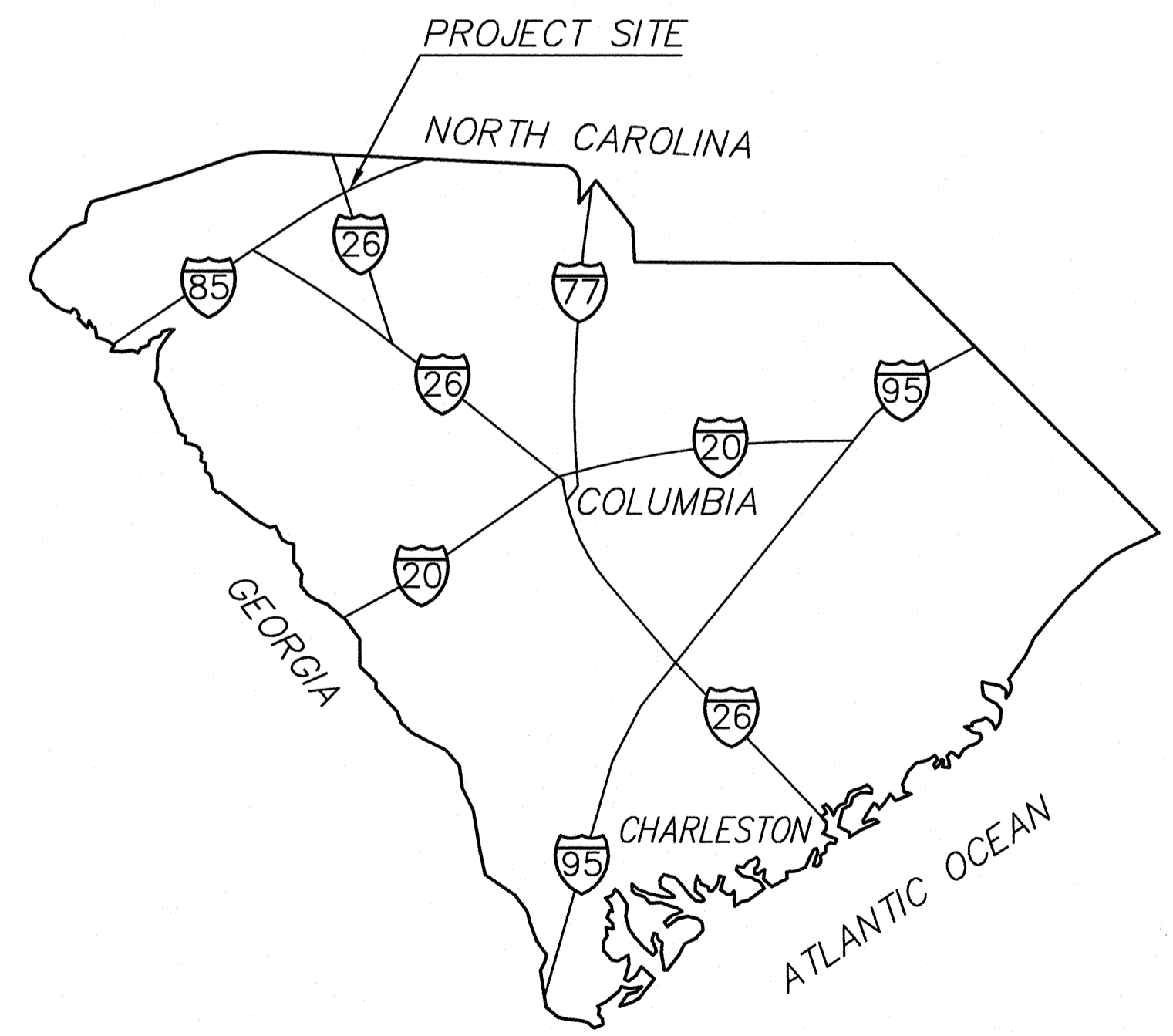
SITE CONSTRUCTION DRAWINGS FOR UNIVERSITY OF SOUTH CAROLINA UPSTATE CAMPUS ENTRANCE AND INFRASTRUCTURE H34-9530

PREPARED FOR:

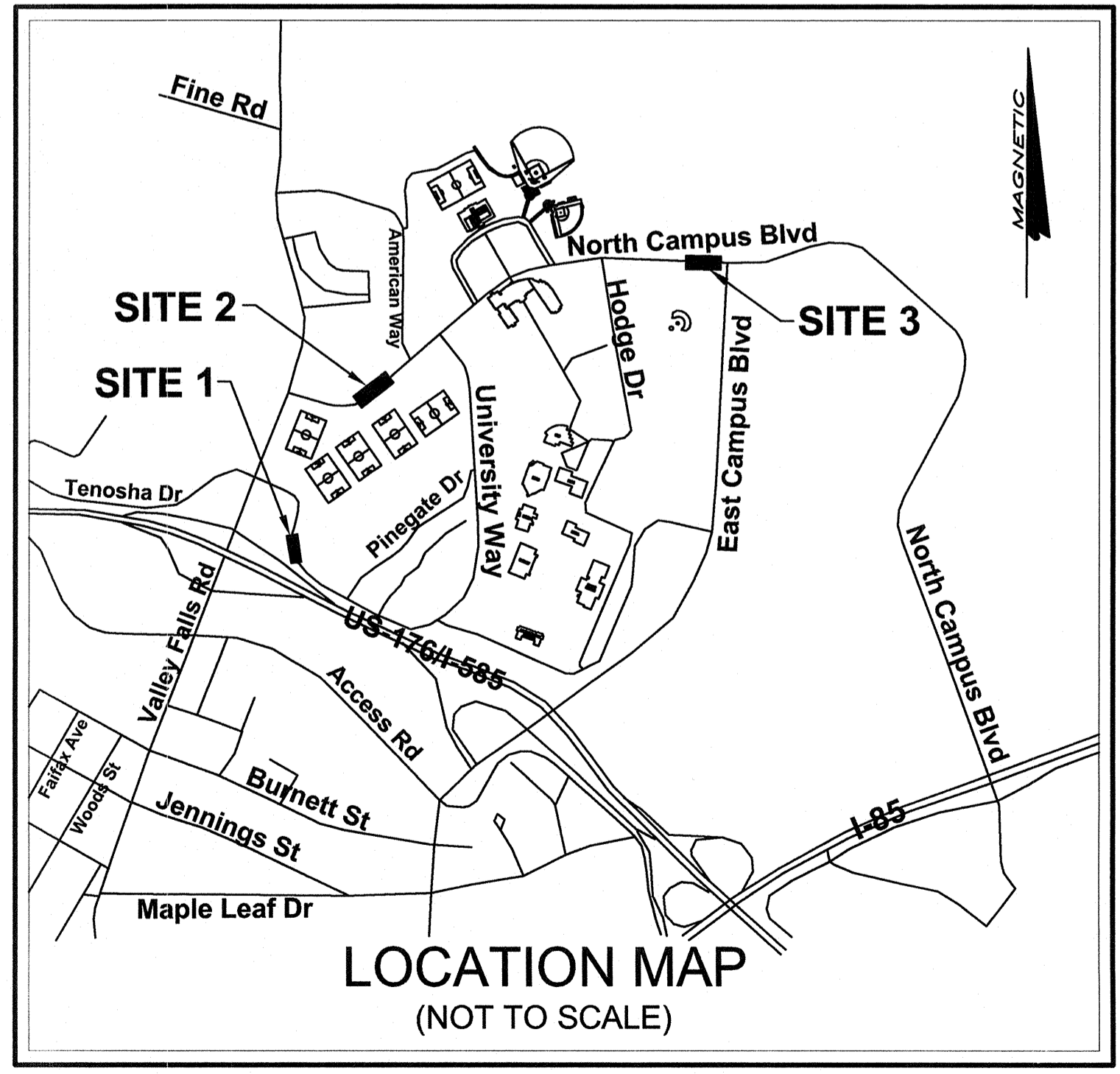
UNIVERSITY OF SOUTH CAROLINA
FACILITIES DESIGN AND CONSTRUCTION
743 GREENE STREET
COLUMBIA, SOUTH CAROLINA 29208
803.777.3126

SHEET INDEX:

C1	COVER AND INDEX SHEET
C2	SITE 1 PLAN
C3	SITE 2 PLAN
C4	SITE 3 PLAN
C5	DETAIL SHEET
C6	DETAIL SHEET



STATE OF SOUTH CAROLINA MAP
NOT TO SCALE



LOCATION MAP
(NOT TO SCALE)

NOTE TO CONTRACTOR:
CONTRACTOR SHALL NOTIFY PUPS, METROPOLITAN
WATER DISTRICT (864-503-0822) AND USC UPSTATE
FACILITIES MANAGEMENT (864-503-5500) A MINIMUM
THREE(3) DAYS PRIOR TO DIGGING.

The Palmetto Utility Protection Service, Inc.
100 Oak Grove Blvd, Suite 100 Columbia, South Carolina 29209 (803) 939-1117

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811

CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY
10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

NOTE:
INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF
EXISTING UNDERGROUND UTILITIES AND STRUCTURES WAS OBTAINED FROM LOCAL UTILITY
COMPANIES AND AVAILABLE DRAWINGS SUPPLIED BY THE OWNER AND IS SHOWN HEREON. THERE
IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT
LIGHT BY THOSE USING THIS DRAWING. HOWEVER, COX AND DINKINS, INC. HAS NO NOTICE OR
KNOWLEDGE OF ANY FACTS THAT WOULD LEAD TO CONCLUDE THAT THE INFORMATION IS NOT
ACCURATE. BUT UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER,
HIS EMPLOYEES, HIS CONSULTANTS, HIS ASSIGNS AND HIS CONTRACTORS SHALL HEREBY
DISTINCTLY UNDERSTAND THAT COX AND DINKINS, INC. IS NOT RESPONSIBLE FOR THE
CORRECTNESS OR SUFFICIENCY OF THE UNDERGROUND INFORMATION. INFORMATION WITH
RESPECT TO ABOVE GROUND MONUMENTS OF SUCH UTILITIES IS BASED UPON ACTUAL FIELD
MEASUREMENTS AND OBSERVATIONS, AND IS SHOWN HEREON.

COX AND DINKINS
ENGINEERS - SURVEYORS

COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

REGISTERED PROFESSIONAL ENGINEER
NO. 29053

CERTIFICATE OF AUTHORIZATION
COX AND DINKINS, INC.
No. C00294

CERTIFICATE OF AUTHORIZATION SEAL

NO.	DATE	DESCRIPTION	
			REVISIONS

DEVELOPER:
UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811
PROJECT CONTACT:
Fred Scott
864.503.5538

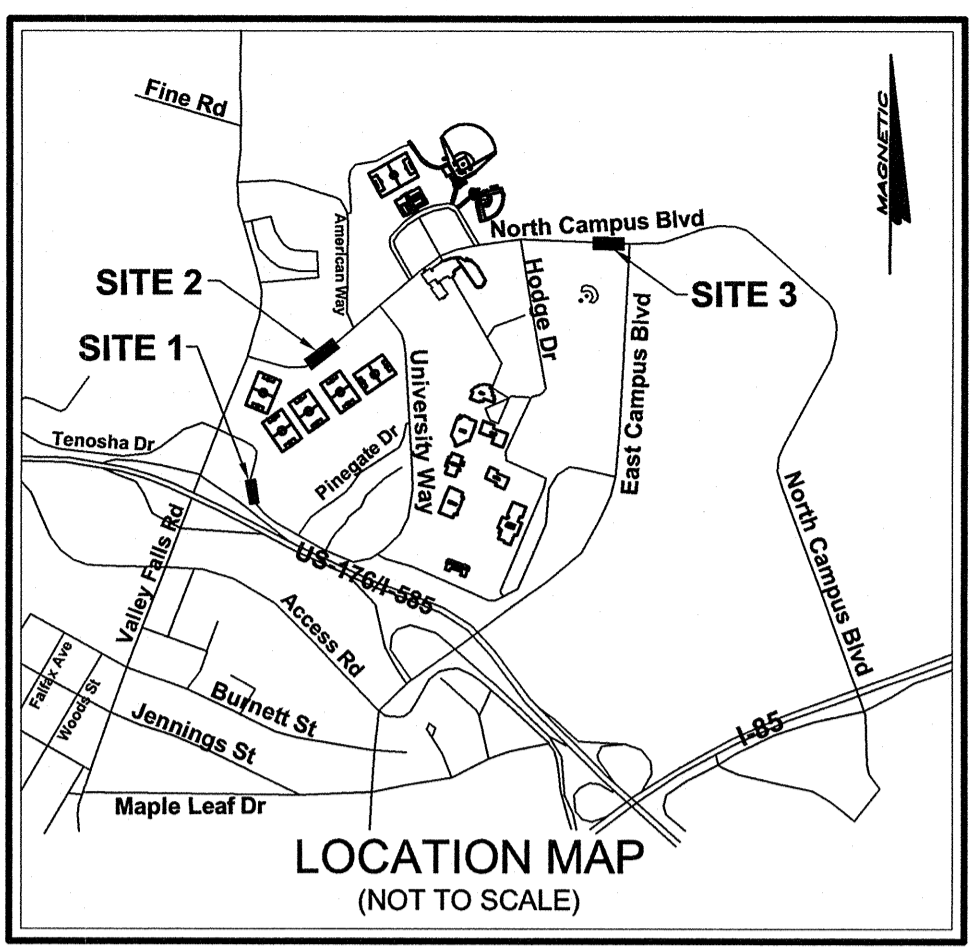
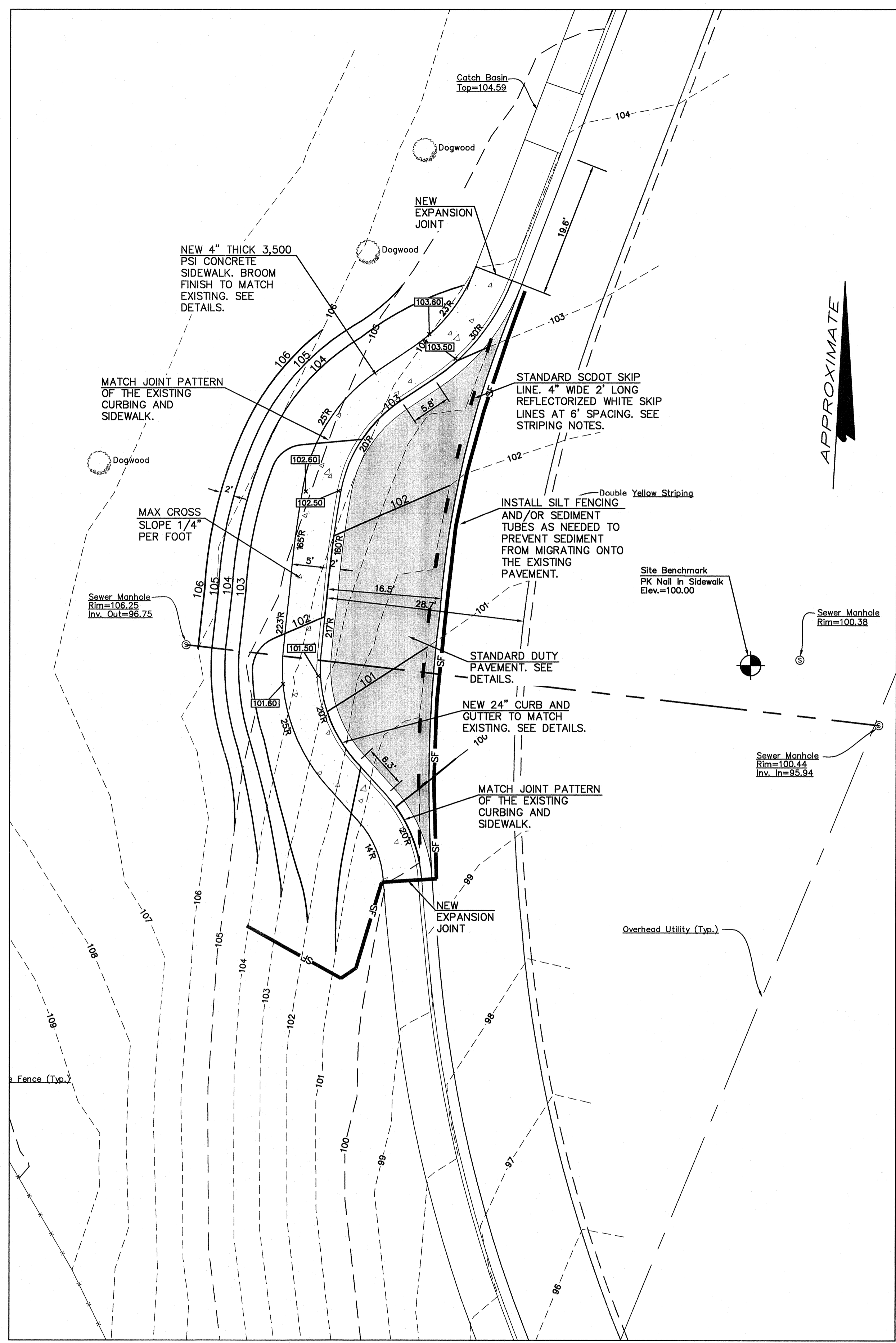
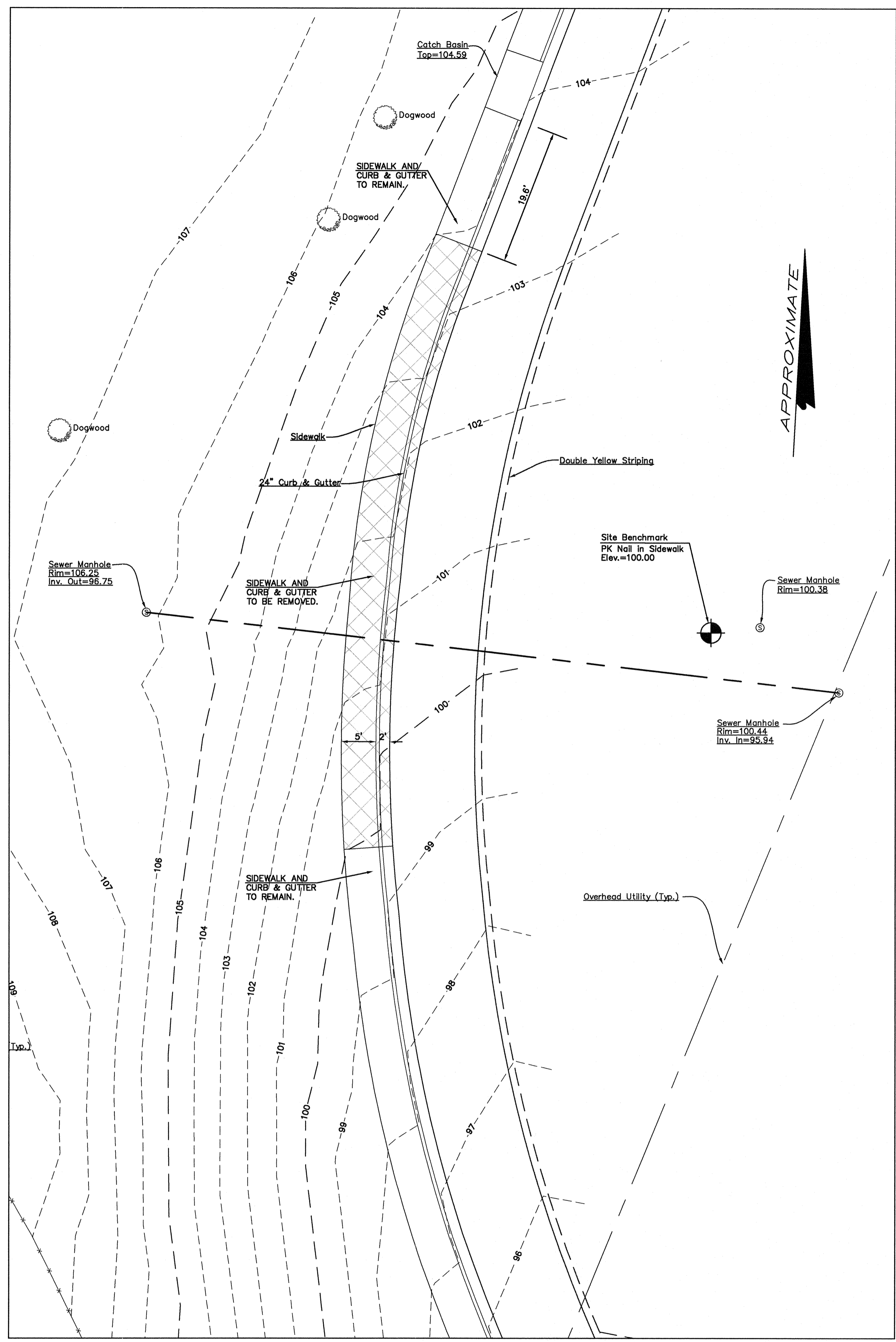
PROJECT:
**UNIVERSITY OF SOUTH CAROLINA - UPSTATE
CAMPUS ENTRANCE AND INFRASTRUCTURE
H34-9530**

LOCATED NEAR SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA

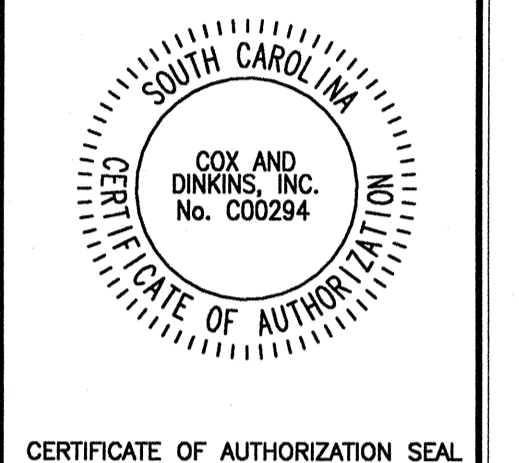
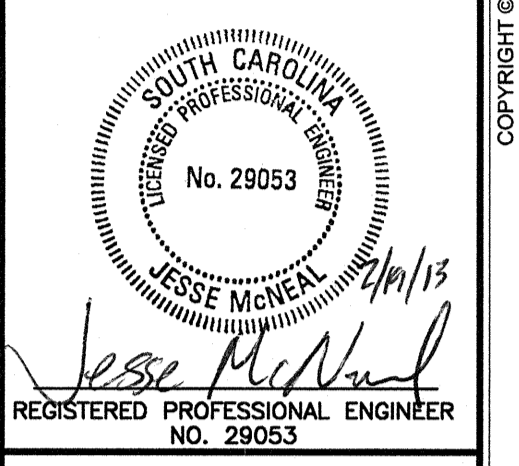
COVER

TMS	BOOK	Y88-24-27	SF NO.
	PROJECT NO.	1693	SHEET NO.
	DATE	02/19/2013	C1 of 6

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COLUMBIA, SC 29205
803-254-0518
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CERTIFICATE OF AUTHORIZATION SEAL

- DEMOLITION NOTES:**
- 1) THE CONTRACTOR SHALL FIELD VERIFY ALL ASPHALT TO BE DEMOLISHED AND REMOVE FROM THE SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 2) ALL EXISTING CONCRETE AND/OR ASPHALT PAVEMENT TO BE REMOVED SHALL BE DISPOSED OF OFF-CAMPUS PROPERTY BY THE CONTRACTOR ACCORDING TO APPLICABLE CODES.
 - 3) SAW CUT, REMOVE AND DISCARD (PROPERLY OFF CAMPUS) SIDEWALK, CURB AND GUTTER, AND ASPHALT TO CREATE A STRAIGHT CONSTRUCTION JOINT.
 - 4) IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.
 - 5) DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS.
 - 6) ALL DEMOLITION MATERIAL SHALL BE DISPOSED OF OFF-CAMPUS PROPERTY BY THE CONTRACTOR.

- NOTES REGARDING PAVEMENT STRIPING:**
- 1) ALL PAVEMENT STRIPING SHOWN SHALL BE PERFORMED BY THE CONTRACTOR USING WHITE TRAFFIC MARKING PAINT UNLESS NOTED OTHERWISE BELOW. PAINT SHALL BE SHERWIN-WILLIAMS "PRO-MAR" TRAFFIC MARKING PAINT OR GILDEN TRAFFIC PAINT AND SHALL BE FOUR INCHES WIDE APPLIED IN TWO COATS AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
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 - 7) ALL DISTURBED AREAS SHALL BE GRASSED TO CAMPUS STANDARD.
 - 8) 4" OF TOP SOIL SHALL BE PLACED OVER ALL GRADED AREAS PRIOR TO GRASSING.
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SITE 1 NOTE:

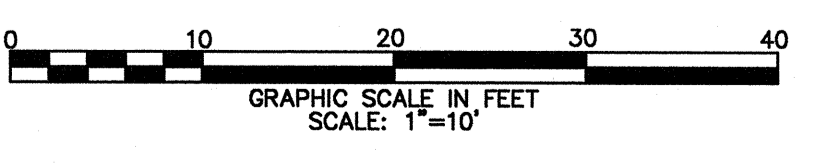
COORDINATE FINE GRADING WITH OWNER. HAUL AND STORE EXCESS SOIL ON CAMPUS WHERE DIRECTED BY THE PROJECT MANAGER OR USE FOR SUBGRADING ON SITES 2 AND/OR 3 IF THE MATERIAL IS SUITABLE.

BID QUANTITIES

THE QUANTITIES SHOWN BELOW ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE ALL QUANTITIES AND INCLUDE THEM IN THE BASE BID. OWNER IS NOT RESPONSIBLE FOR DISCREPANCIES BETWEEN ESTIMATED AND ACTUAL QUANTITIES.

ITEM	QUANTITIES
24" CURB & GUTTER	101 L.F.
ASPHALT PAVEMENT	820 S.F.
CONCRETE SIDEWALK	510 S.F.

- NOTES TO CONTRACTOR:**
- 1) THE CONTRACTOR SHALL NOTIFY FRED SCOTT OF UNIVERSITY OF SOUTH CAROLINA UPSTATE (864-503-5538) 48 HOURS PRIOR TO STARTING WORK.
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3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811

CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

REVISIONS	DESCRIPTION

DEVELOPER:

UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811

PROJECT CONTACT:
Fred Scott
864.503.5538

PROJECT:

UNIVERSITY OF SOUTH CAROLINA - UPSTATE
CAMPUS ENTRANCE AND INFRASTRUCTURE
H34-9530

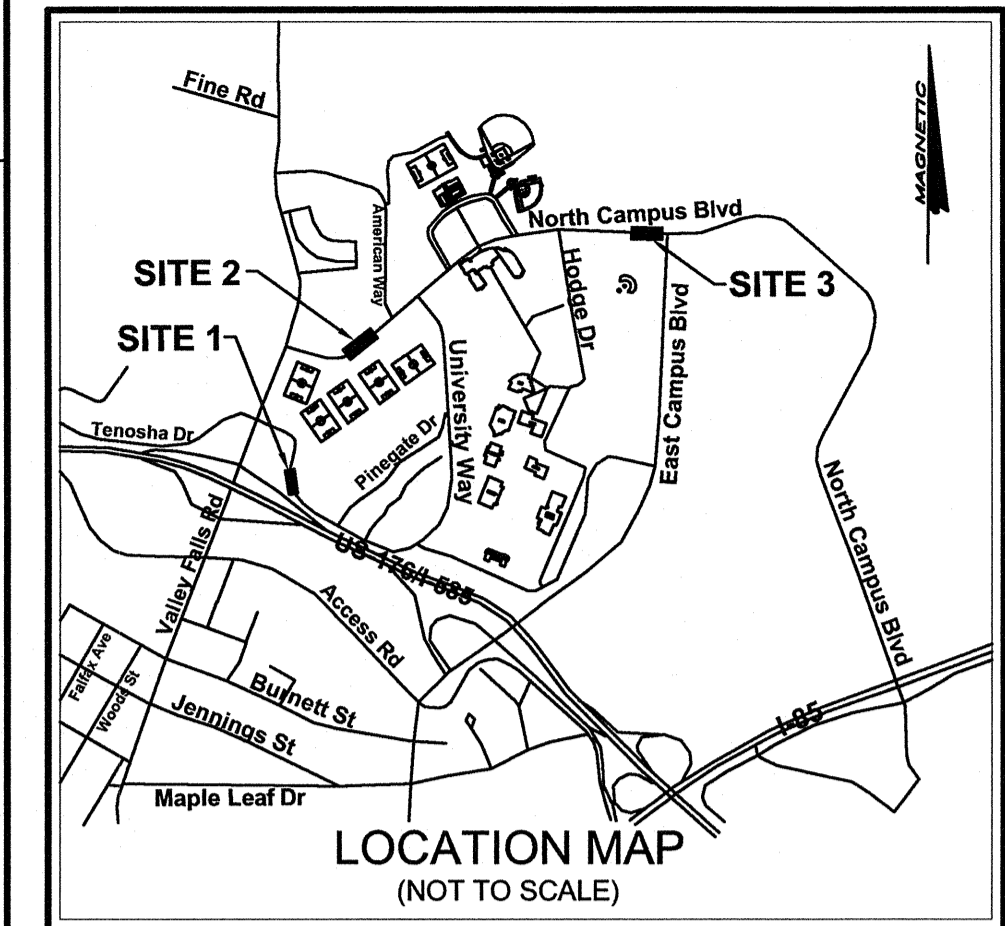
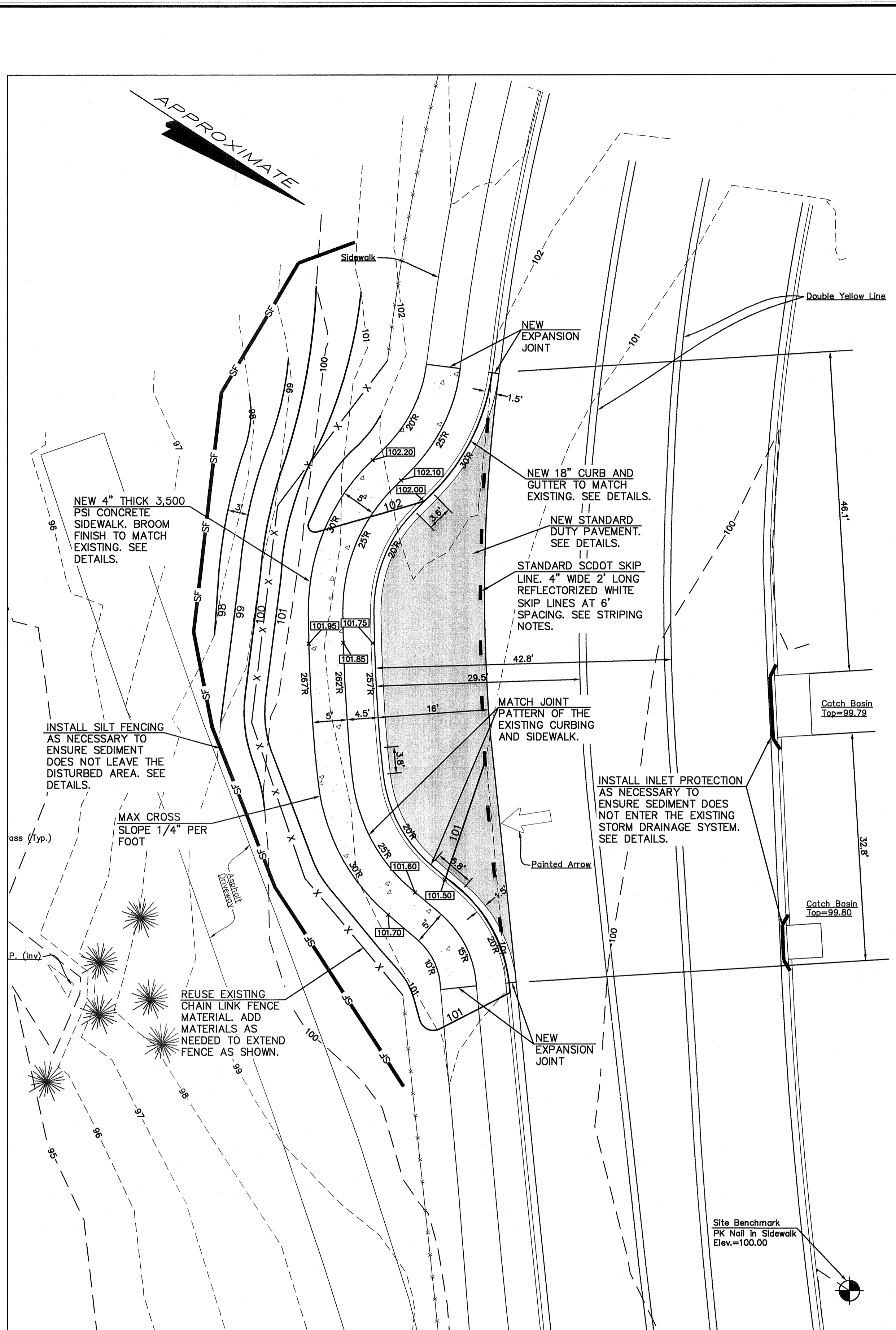
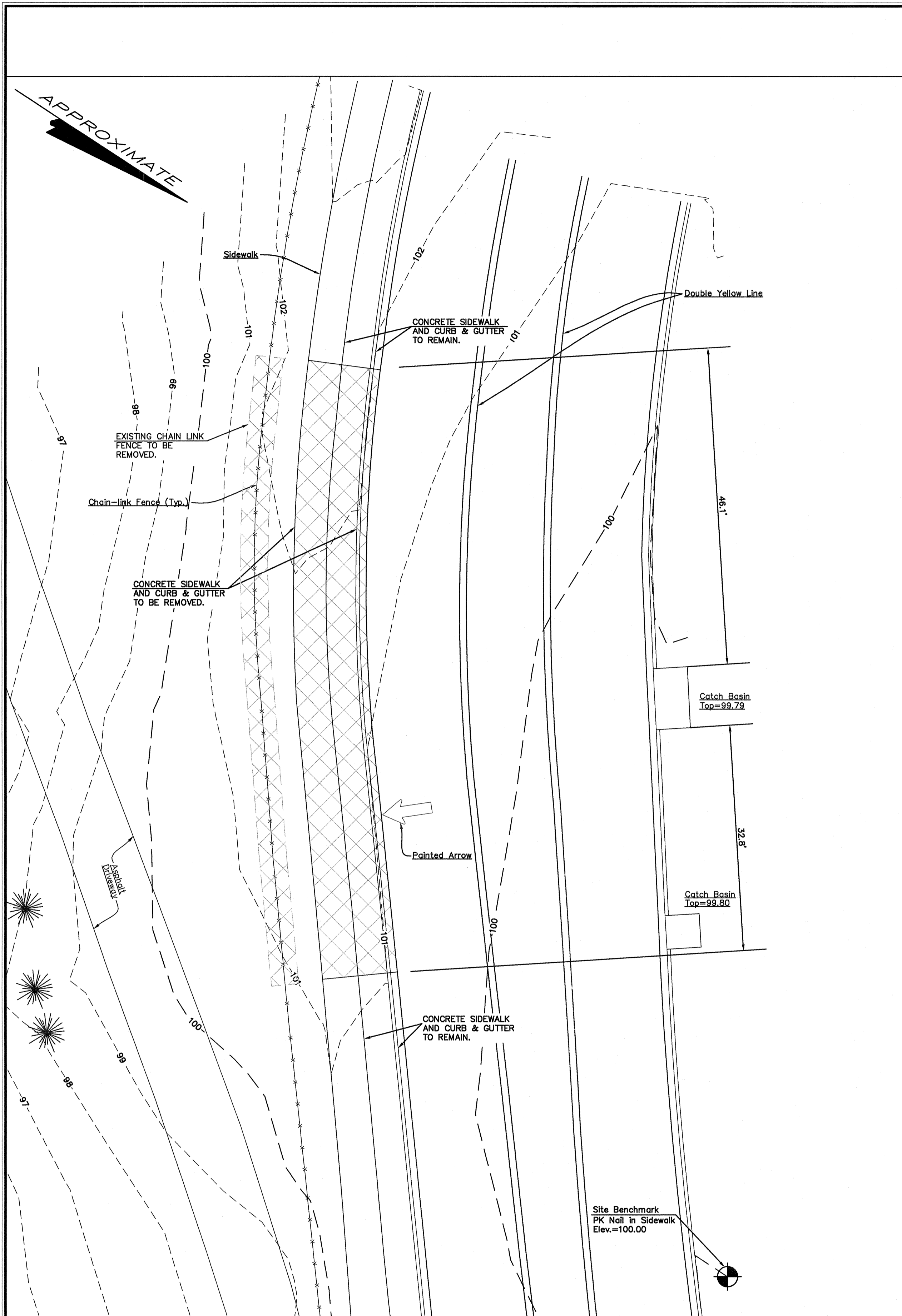
LOCATED NEAR SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA

SITE 1

TMS	
BOOK	Y58-24-27
PROJECT NO.	1693
DATE	02/19/2013
SF NO.	
SHEET NO.	C2 of 6

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COX AND DINKINS
ENGINEERS - SURVEYORS
COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29053
Jesse McNeal
REGISTERED PROFESSIONAL ENGINEER
No. 29053

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 00294
COX AND DINKINS, INC.
No. 00294
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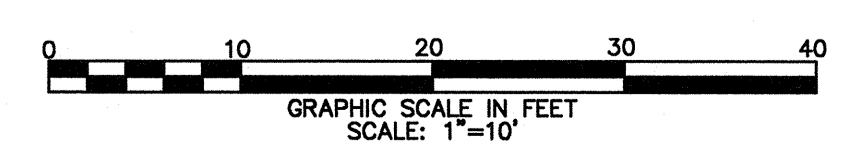
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ITEM	QUANTITIES
18" CURB & GUTTER	100 L.F.
ASPHALT PAVEMENT	815 S.F.
CONCRETE SIDEWALK	205 S.F.

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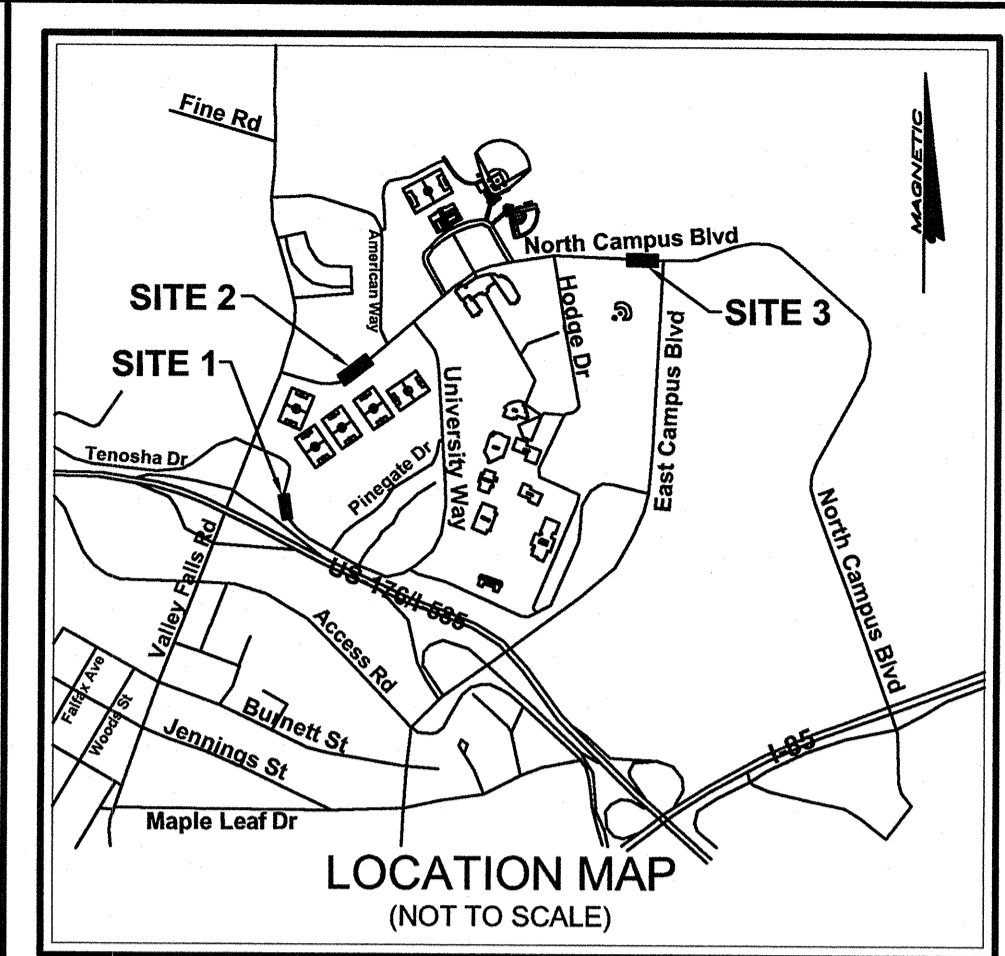
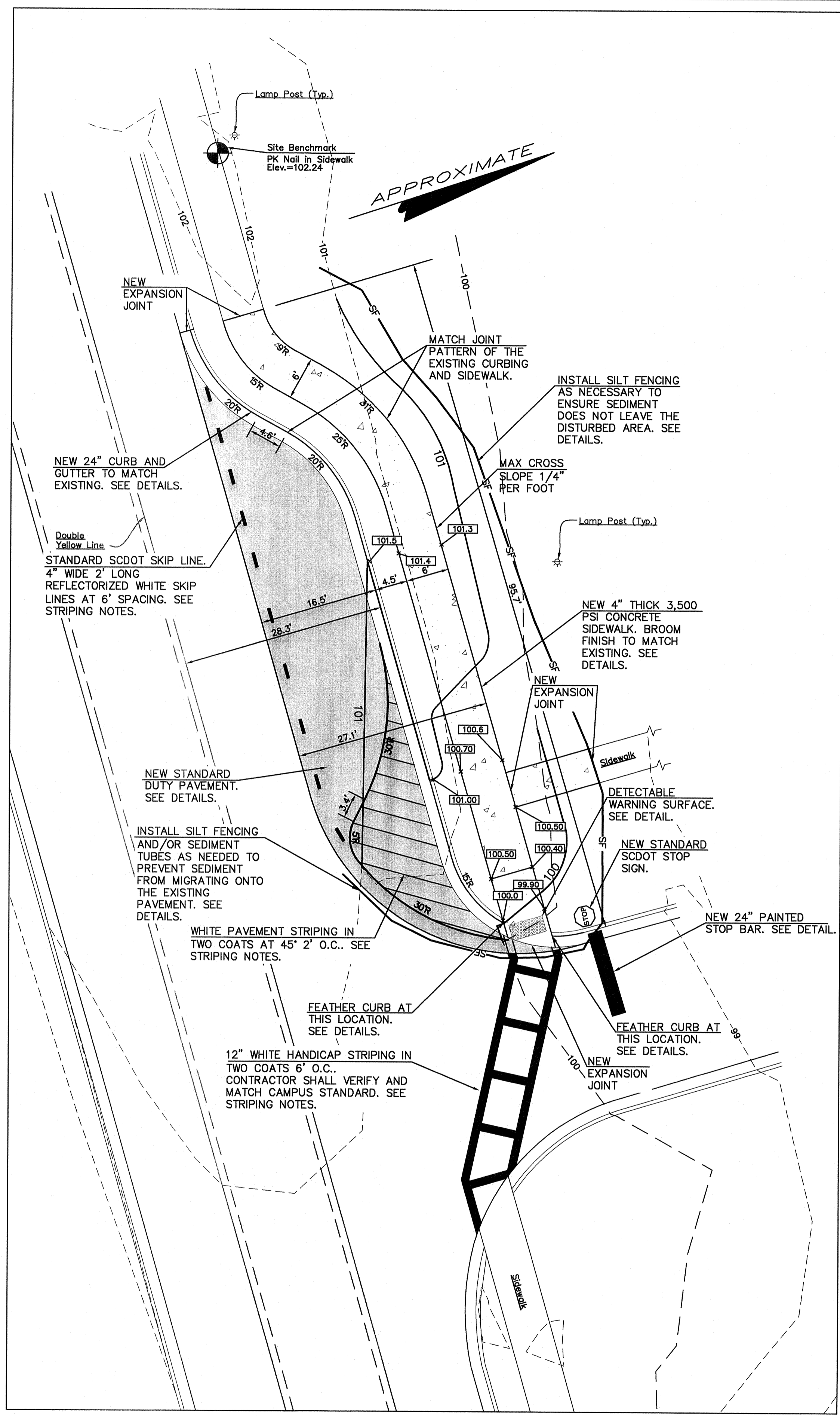
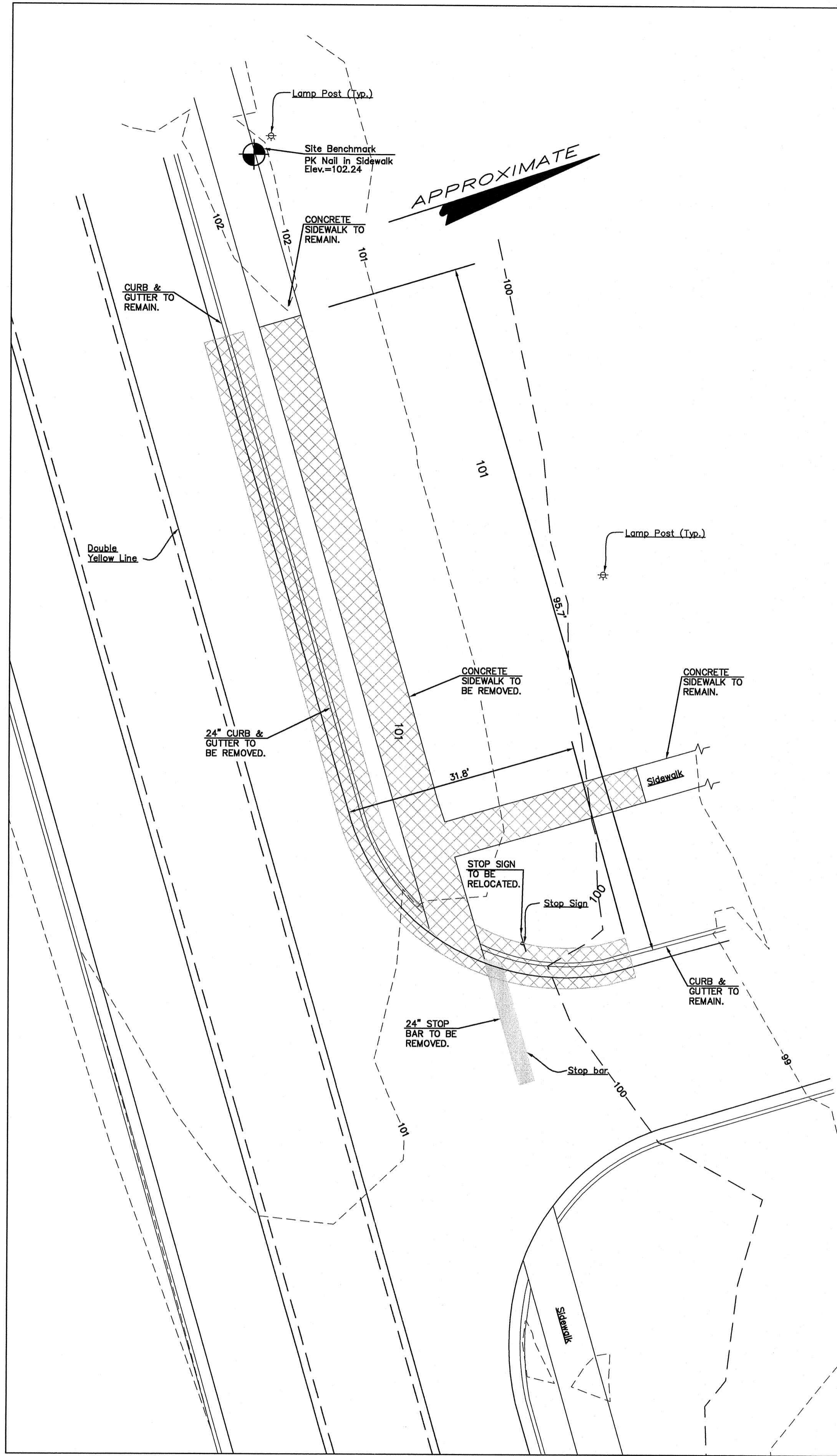


NO.	DATE	DESCRIPTION

DEVELOPER:
UNIVERSITY OF SOUTH CAROLINA
Facilities Design and Construction
743 Green Street
Columbia, SC 29208
803.777.5811
PROJECT CONTACT:
Fred Scott
864.503.5538

PROJECT:
UNIVERSITY OF SOUTH CAROLINA - UPSTATE
CAMPUS ENTRANCE AND INFRASTRUCTURE
H34-9530
LOCATED NEAR SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA
SITE 2

TMS	BOOK	Y88-24-27	SF NO.
PROJECT NO.	1693		
DATE	02/19/2013		
SHEET NO.			C3 of 6



DEMOLITION NOTES:

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ASPHALT PAVEMENT	1,080 S.F.
CONCRETE SIDEWALK	655 S.F.

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 811 South Carolina 811
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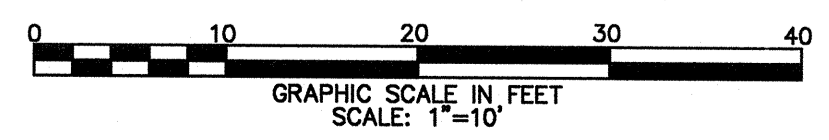
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 COX AND DINKINS, INC.
 No. C00294

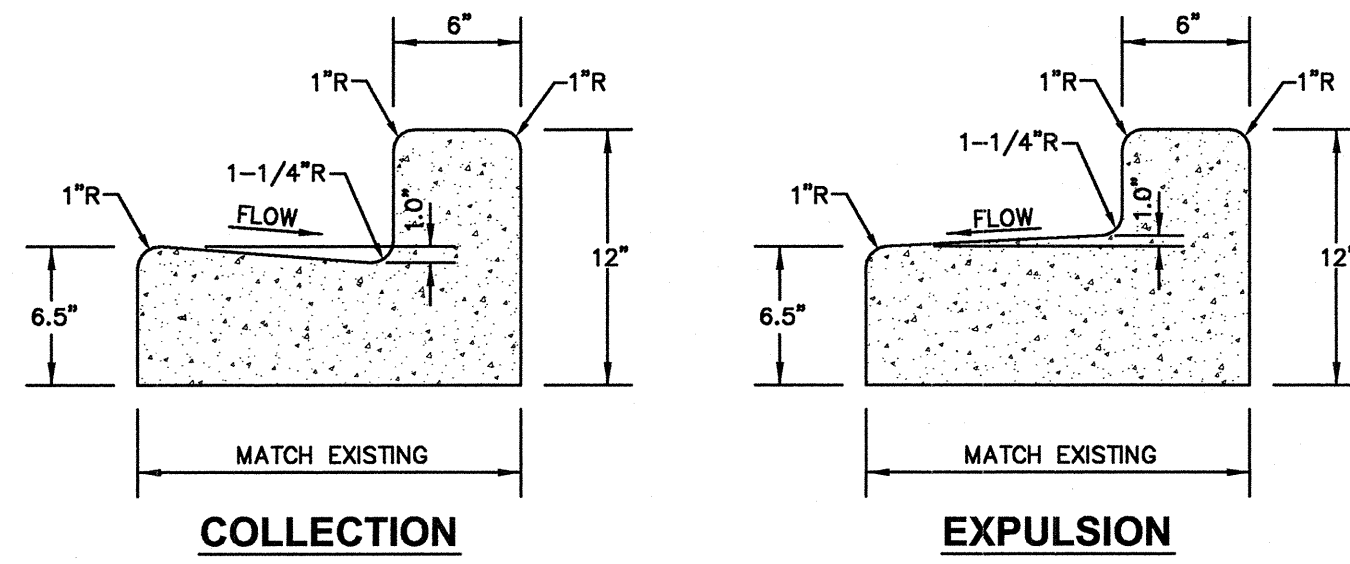
NO.	DATE	DESCRIPTION

DEVELOPER:
 UNIVERSITY OF SOUTH CAROLINA
 Facilities Design and Construction
 743 Green Street
 Columbia, SC 29208
 803.777.5811
PROJECT CONTACT:
 Fred Scott
 864.503.5538

PROJECT:
 UNIVERSITY OF SOUTH CAROLINA - UPSTATE
 CAMPUS ENTRANCE AND INFRASTRUCTURE
 H34-9530
 LOCATED NEAR SPARTANBURG
 SPARTANBURG COUNTY, SOUTH CAROLINA
SITE 3

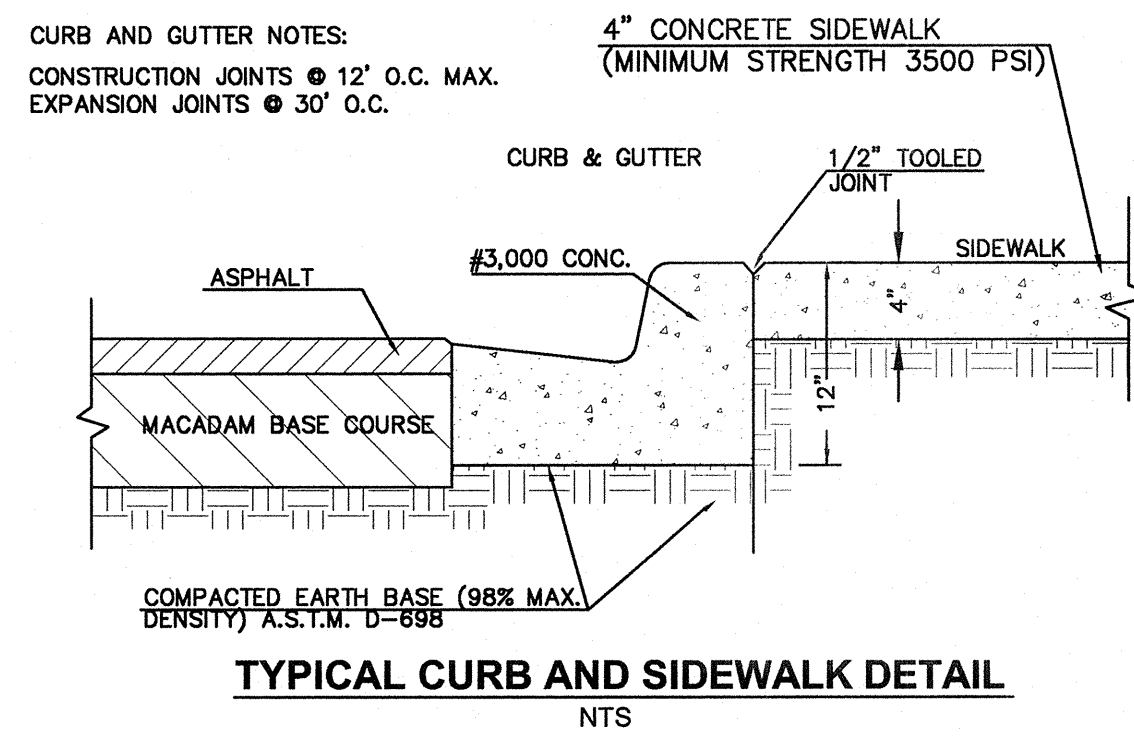
TMS	BOOK	158-24-27	SF NO.
PROJECT NO.	1693		SHEET NO.
DATE	02/19/2013		C4 of 6



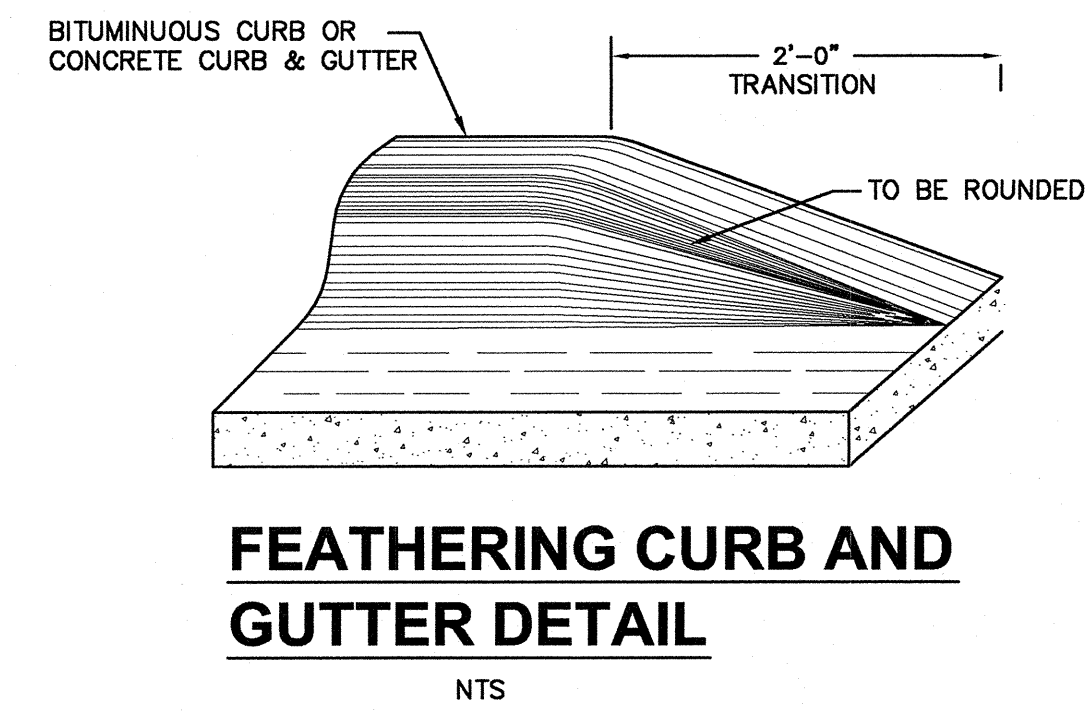


"L" TYPE CURB AND GUTTER

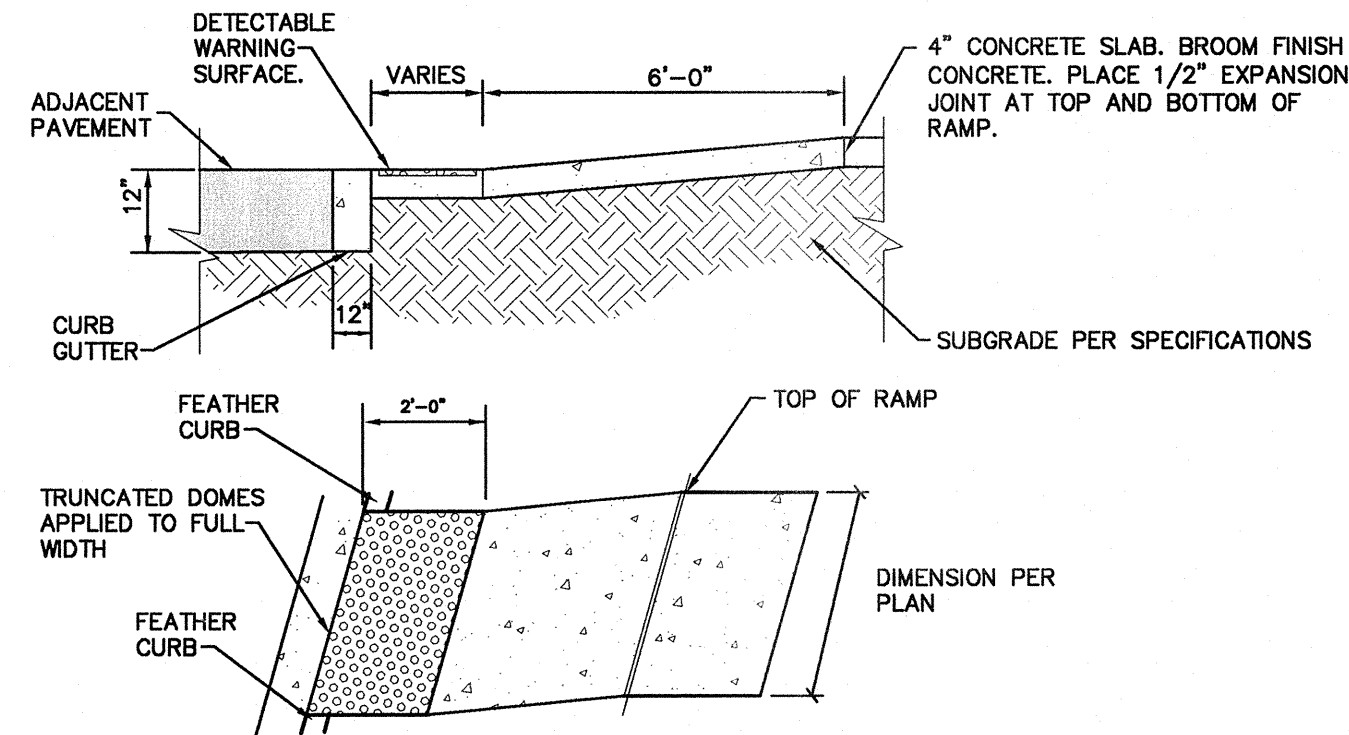
NTS
Min. Concrete Strength = 3000 p.s.i.



TYPICAL CURB AND SIDEWALK DETAIL
NTS



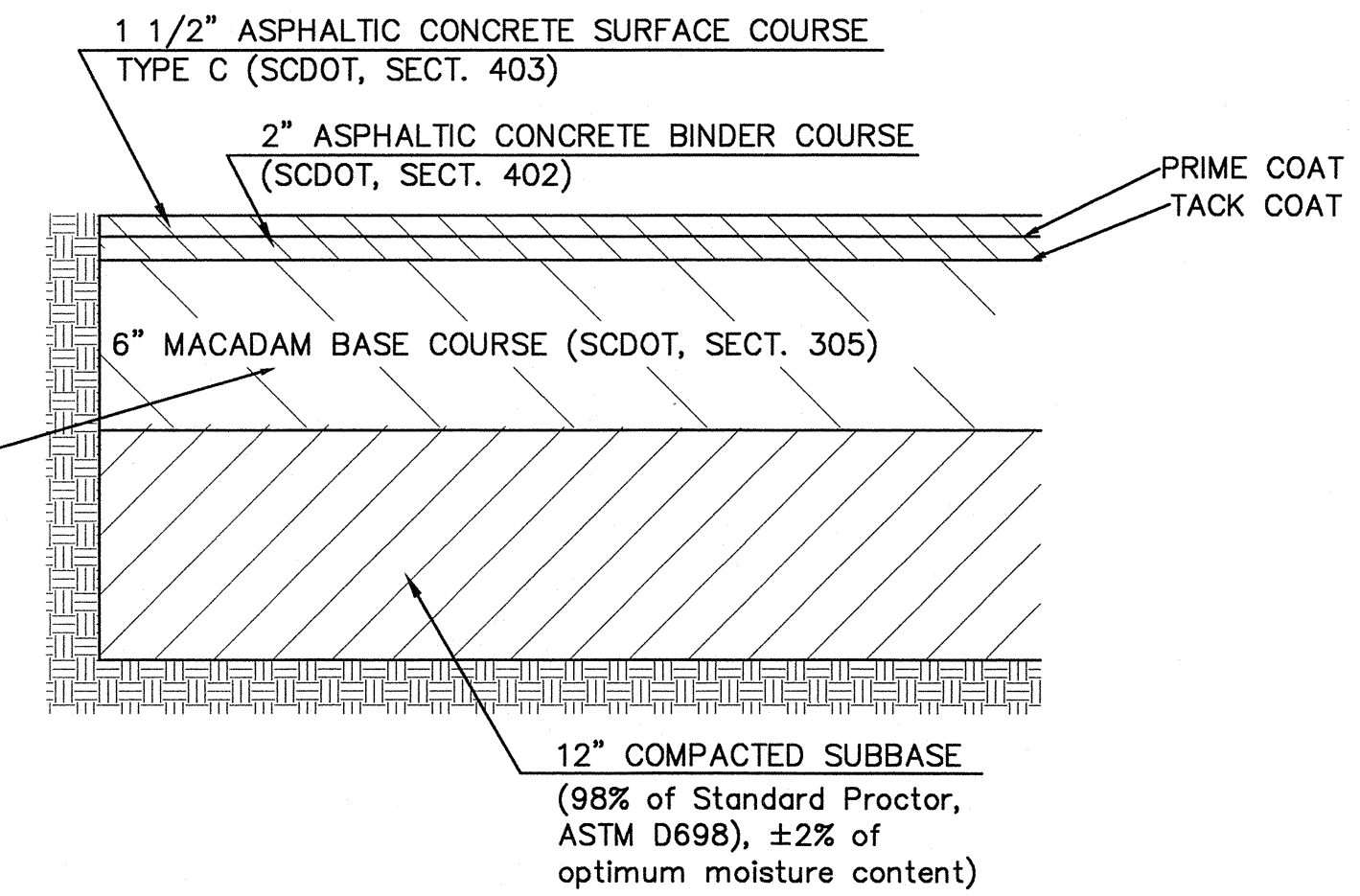
FEATHERING CURB AND GUTTER DETAIL
NTS



ACCESSIBLE CURB RAMP

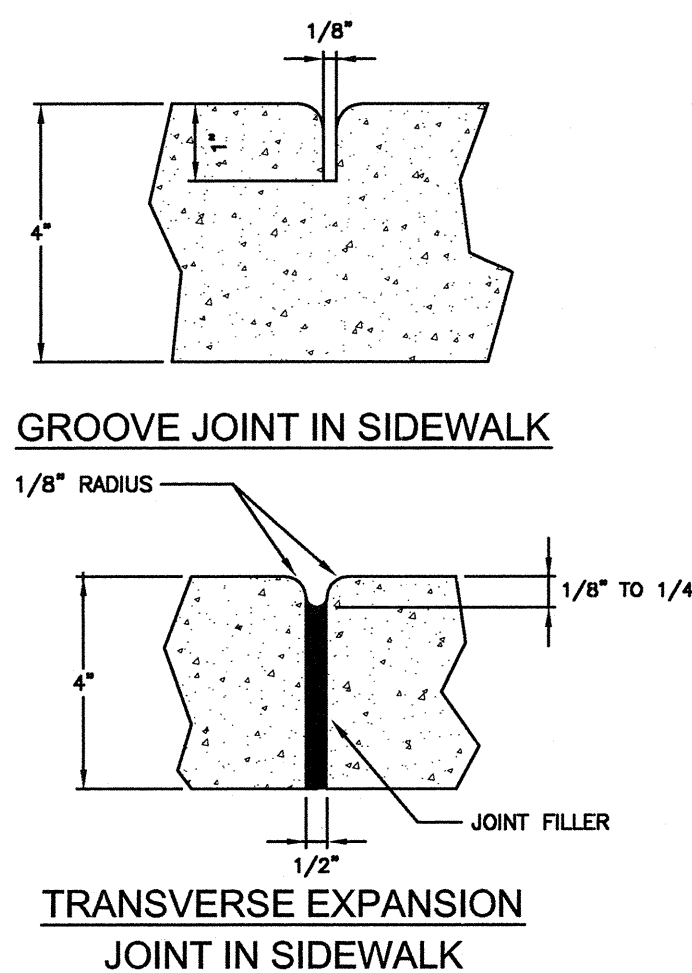
NTS

NOTES:
1. PER FEDERAL REGULATION 28 CFR PART 36, RAMP TO HAVE MAXIMUM RUNNING SLOPE OF 1:12 AND MAXIMUM CROSS SLOPE OF 1:50 IN AS-BUILT CONDITION. SEE GRADING PLAN FOR DESIGN SLOPE AND SPOT ELEVATIONS.
2. CONTRACTOR SHALL VERIFY AND USE CAMPUS STANDARD PRIOR TO CONSTRUCTION.



STANDARD DUTY ASPHALT PAVEMENT SECTION

CONTRACTOR TO VERIFY WITH OWNER'S GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION
NTS



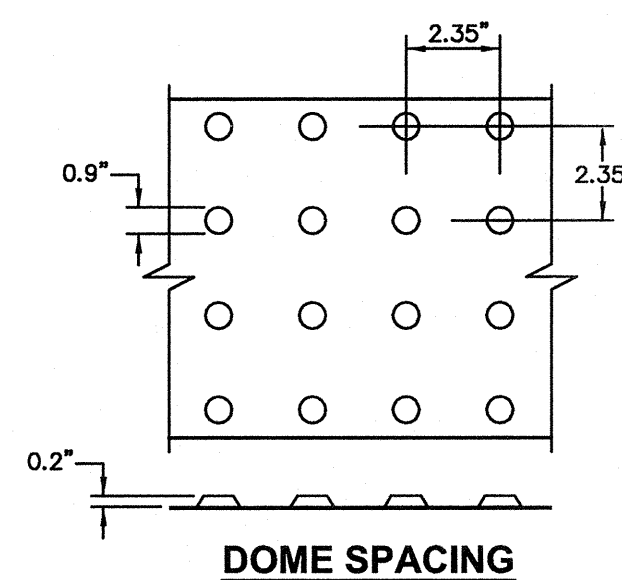
GROOVE JOINT IN SIDEWALK

1/8" RADIUS

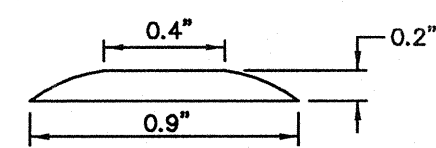
TRANSVERSE EXPANSION JOINT IN SIDEWALK

GENERAL NOTES:

- A GROOVE JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 6' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 30' INTERVALS NOT TO EXCEED 50' AND MATCHING EXPANSION/CONSTRUCTION JOINT IN ADJACENT CURB. A SEALED 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
- SIDEWALK AT DRIVEWAY ENTRANCES TO BE 6" THICK.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI. IN 28 DAYS.



DOMES SPACING



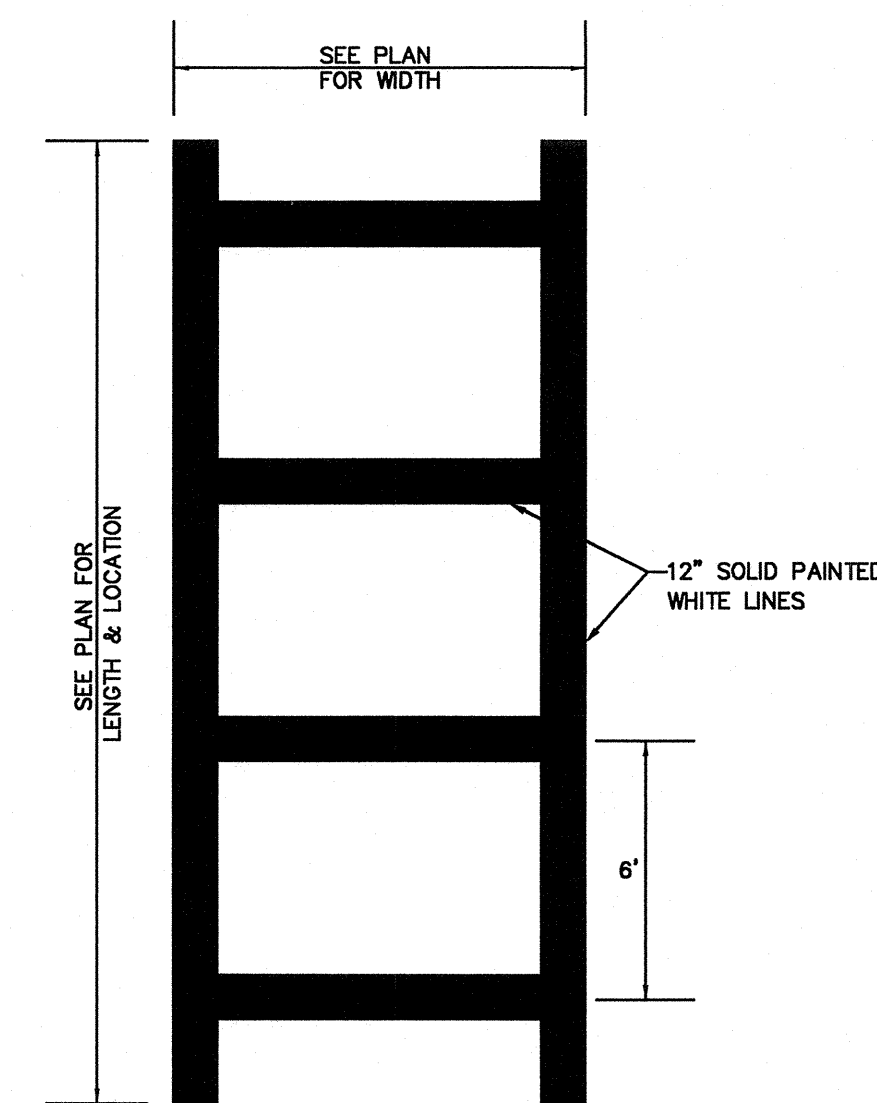
DOMES SECTION

DETECTABLE WARNING DOME

NTS

NOTE: DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH THE ADJOINING SURFACE, AND SHALL BE INTEGRAL TO THE WALKING SURFACE. DETECTABLE SURFACES SHALL DIFFER FROM ADJACENT SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

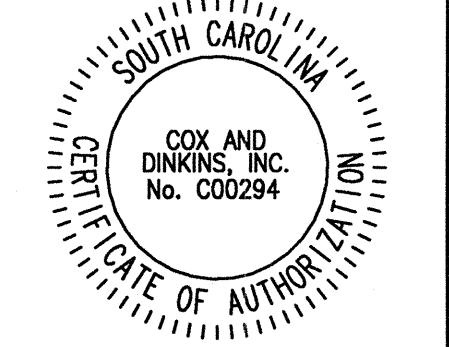
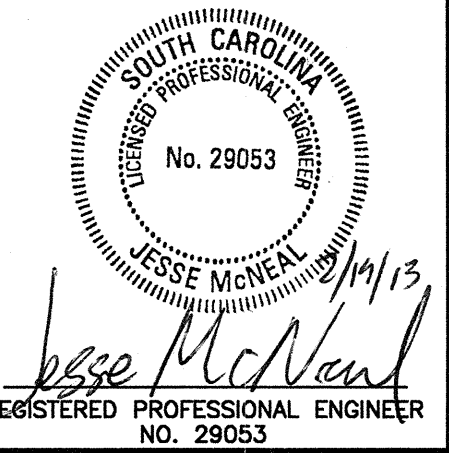
FOR ADDITIONAL INFORMATION ON ADA DETECTABLE WARNING DOME, CONTRACTOR CAN REFER TO THE FOLLOWING WEB SITE FOR MANUFACTURERS INFORMATION:
www.accessforblind.org/dw_manufacturers.html



CROSSWALK DETAIL
N.T.S.



ENGINEERS - SURVEYORS
COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com



CERTIFICATE OF AUTHORIZATION SEAL

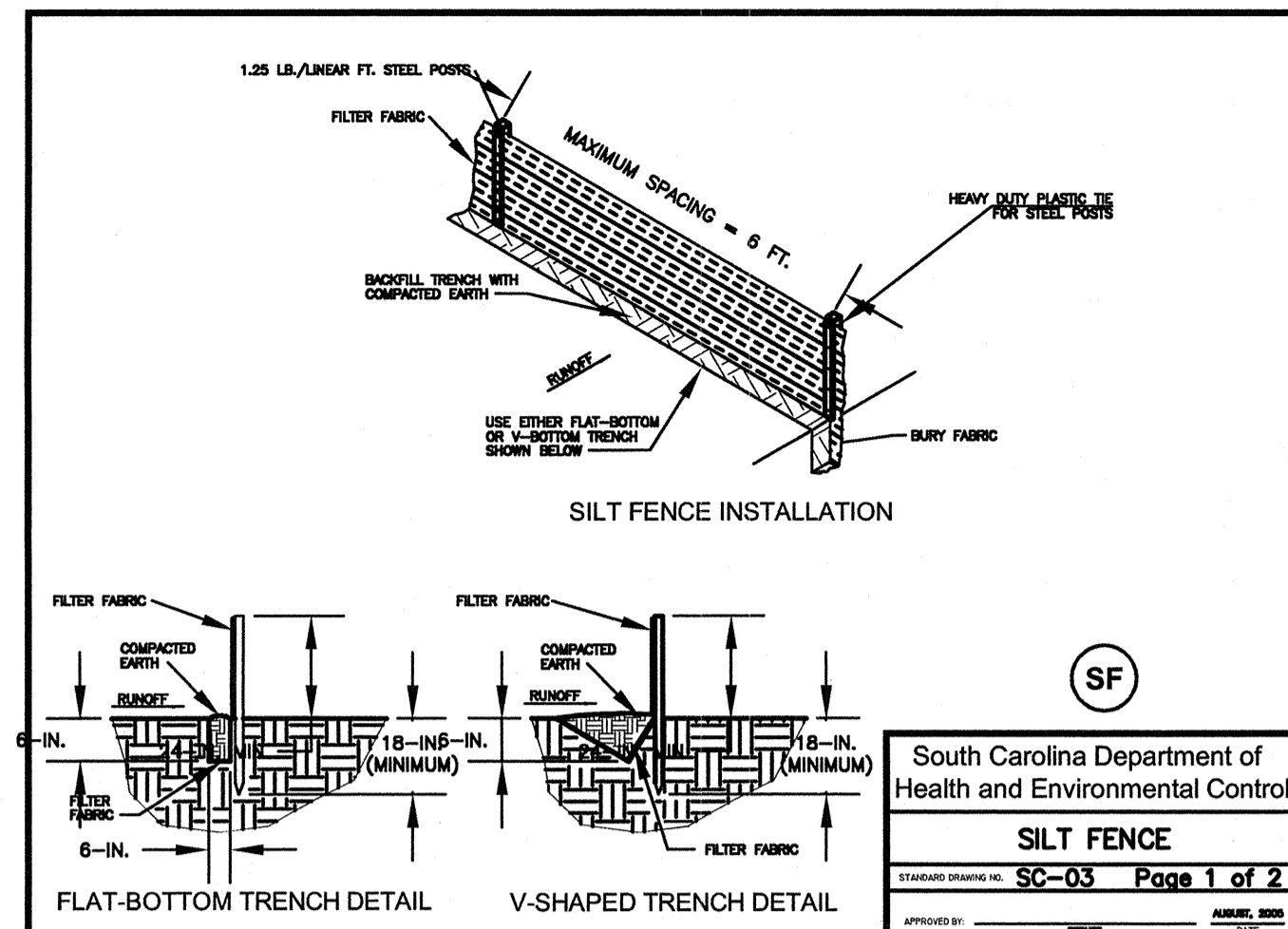
REVISIONS	DESCRIPTION	DATE	NO.

DEVELOPER:

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743 Green Street
Columbia, SC 29208
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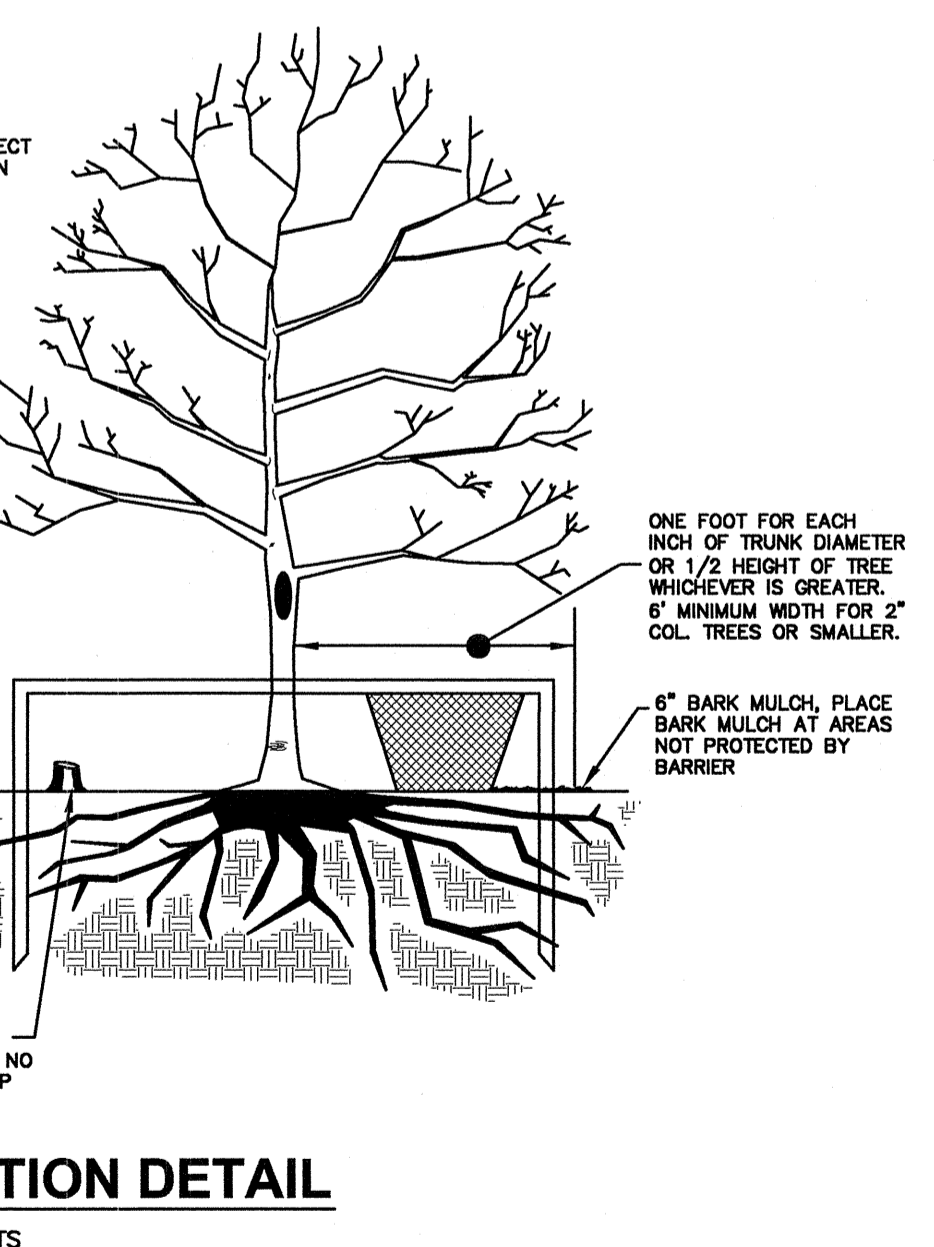
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**UNIVERSITY OF SOUTH CAROLINA - UPSTATE
CAMPUS ENTRANCE AND INFRASTRUCTURE**
H34-9530
LOCATED NEAR SPARTANBURG
SPARTANBURG COUNTY, SOUTH CAROLINA
DETAIL SHEET

TMS	BOOK	Y88-24-27	SF NO.
	PROJECT NO.	1693	SHEET NO.
	DATE	02/19/2013	C5 of 6

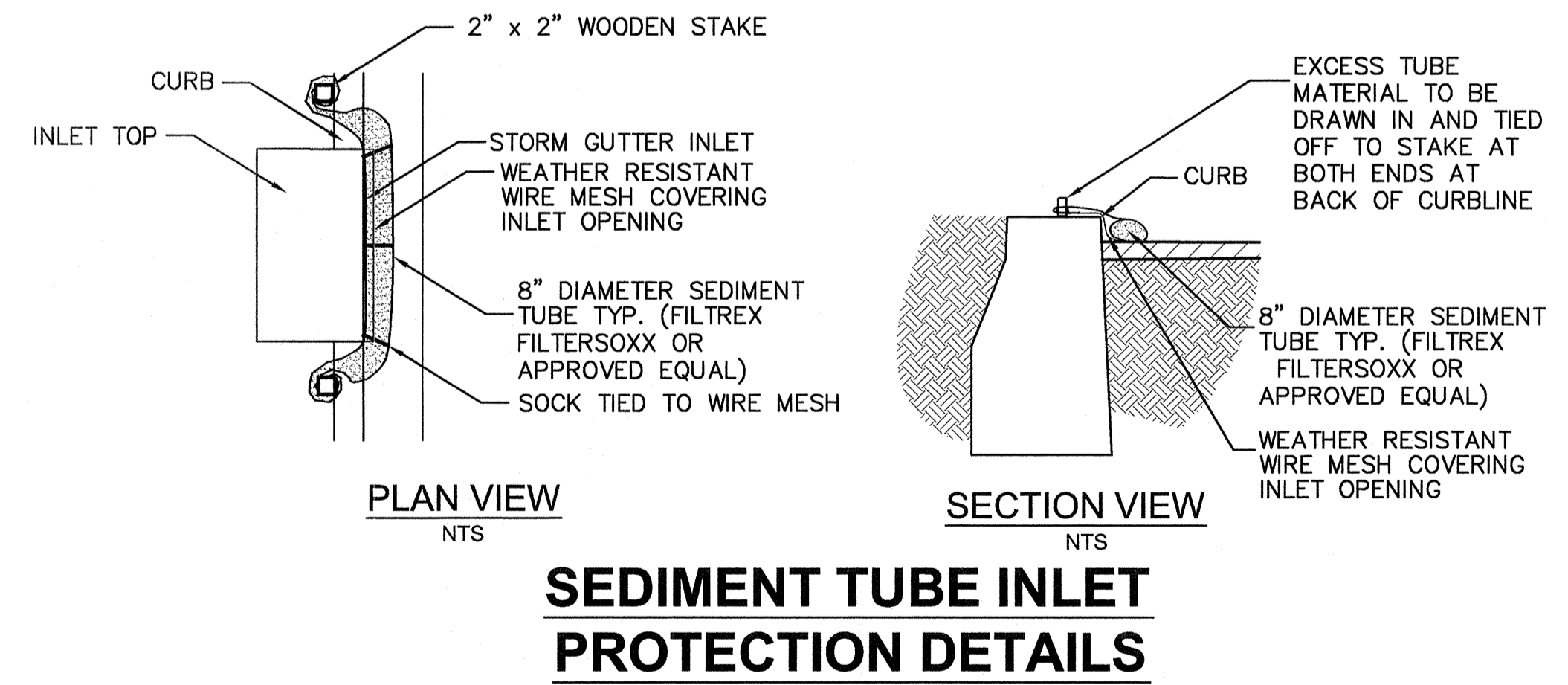


SILT FENCE DETAIL
What and Where to Use It
 Silt fence is applicable in areas:
 Where the maximum sheet or overland flow path length to the fence is 100-feet.
 Where the maximum slope steepness (normal [perpendicular] to fence line) is 2:1-V.
 That do not receive concentrated flows greater than 0.5 cfs.
 Do not place silt fence across channels or use it as a velocity control BMP.
Materials
Steel Posts
 Use 48-inch long steel posts that meet the following minimum physical requirements:
 Composed of high strength steel with minimum yield strength of 50,000 psi.
 Have a standard "T" section with a nominal face width of .38-inches and nominal "T" length of 1.48-inches.
 Weigh 1.25 pounds per foot (± 8%).
 Have a soil stabilization plate with a minimum cross section area of 17-square inches attached to the steel posts.
 Painted with a water based baked enamel paint.
 Use steel posts with a minimum length of 4-feet, weighing 1.25 pounds per linear foot (± 8%) with projections to aid in fastening the fabric. Except when heavy clay soils are present on site, steel posts will have a metal soil stabilization plate welded near the bottom such that when the post is driven to the proper depth, the plate will be below the ground level for added stability. The soil plates should have the following characteristics:
 Be composed of minimum 15 gauge steel.
 Have a minimum cross section area of 17-square inches.
Geotextile Filter Fabric
 The fabric is:
 Composed of fibers consisting of long chain synthetic polymers composed of at least 85% by weight of polyethylene, polyesters, or polyamides. Formed into a network such that the filaments or fibers retain dimensional stability relative to each other. Free of any treatment or coating which might adversely affect its physical properties after installation. Free of defects or flaws that significantly affect its physical and/or filtering properties. Cut to a minimum width of 36 inches.
 Use only fabric appearing on SCDOT Approval Sheet #34 meeting the requirements of the most current edition of the SCDOT Standard Specifications for Highway Construction.

South Carolina Department of Health and Environmental Control
SILT FENCE
 STANDARD DESIGN NO. SC-03 Page 1 of 2
 APPROVED BY: [Signature]



TREE PROTECTION DETAIL
 NTS



SEDIMENT TUBE INLET PROTECTION DETAILS
 NTS

PERMANENT GRASSING:

PERMANENT GRASS PLANTINGS BY SEASON WITH THE REQUIRED AMOUNTS OF FERTILIZER AND LIMESTONE PER 1,000 SQUARE FEET.

FROM MAY 1 - AUGUST 31

- 1 LB. BROWN TOP MILLET
- 2 LBS. HULLED BERMU DA
- 25 LBS. 10-10-10 FERTILIZER
- 75 LBS. LIMESTONE

OR

- 1 LB. BROWN TOP MILLET
- 1 LB. HULLED BERMU DA
- *2 LB. BAHIA GRASS
- 25 LBS. 10-10-10 FERTILIZER
- 75 LBS. LIMESTONE

OR

- DEEP SANDY SOILS
- 2 LBS. BROWN TOP MILLET
- *3 LBS. BAHIA GRASS
- 25 LBS. 10-10-10 FERTILIZER
- 75 LBS. LIMESTONE

*BAHIA GRASS IS A GOOD EROSION CONTROL GRASS. HOWEVER IT PRODUCES MANY SEED HEADS WHICH SCATTER TO OTHER AREAS. BAHIA GRASS IS HARD TO MOW. HOWEVER IT DOES NOT REQUIRE THE CARE THAT OTHER GRASSES REQUIRE. AROUND OFFICE BUILDINGS AND WITHIN SUBDIVISIONS USE 4 TO 6 OZS. CENTIPEDE GRASS IN LIEU OF BAHIA GRASS OR IN COMBINATION WITH BERMU DA GRASS.

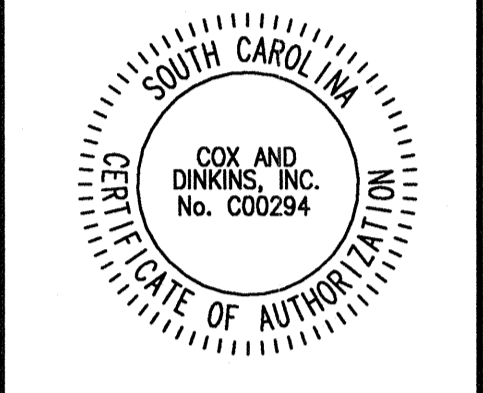
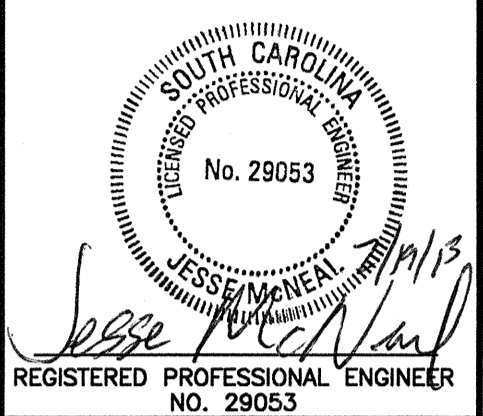
**FOR SOILS WITH CLAY SUBSOIL. DO NOT PLANT IN SANDY SOILS.

ALL VEGETATED SWALES AND DITCHES WITH SIDE SLOPES (CUT OR FILL) STEEPER THAN 2:1 ADD 4 TO 6 OUNCES/1,000 SQUARE FEET OF WEEPING LOVE GRASS SEED TO ANY OF THE ABOVE MIXTURES. SWALE AND DITCH BOTTOMS SHOULD BE DOUBLE SEEDED. ALSO ALL SIDE SLOPES STEEPER THAN 2:1 SHALL BE HYDROSEEDED. GROWTH OF RYE GRASS IN EARLY SPRING MUST BE SUPPRESSED TO PREVENT RYE FROM CHOKING OUT PERMANENT GRASS SUCH AS BERMU DA, BAHIA OR FESCUE.

NOTE: CONTRACTOR SHALL VERIFY AND USE CAMPUS STANDARD PRIOR TO INSTALLATION.



COX AND DINKINS, INC.
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 803-254-0518
 Fax: 803-765-0993
 Email: cdinc@coxanddinkins.com



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TMS	BOOK	Y98-24-27	SF NO.
	PROJECT NO.	1693	SHEET NO.
	DATE	02/19/2013	C6 of 6

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