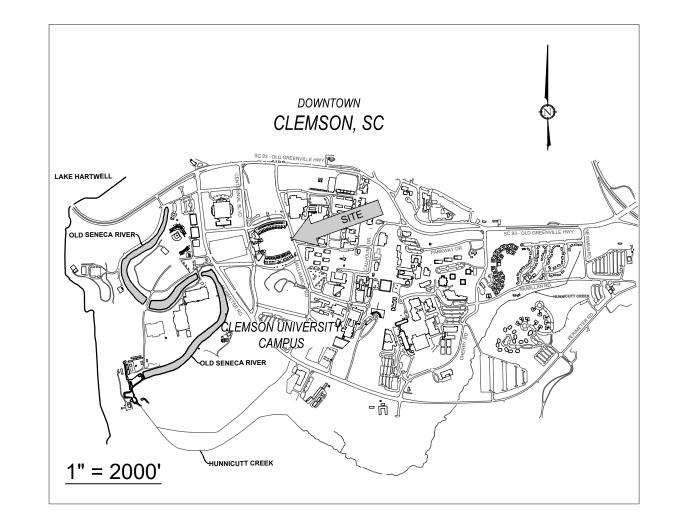
- A. CONTRACTOR SHALL BE RESPONSIBLE FOR RAZNG AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND **CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN** ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- C. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- D. WARRANTY/DISCLAIMER:
 - THE DESIGNS REPRESENTED IN THESE PLANS ARE IN **ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL** ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.
- E. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
- F. ALL CONSTRUCTION WITHIN STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT RESIDENT MAINTENANCE ENGINEER.
- G. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE RELEVANT UTILITY COMPANY OR REGULATORY AUTHORITY, AND THE SPECIFICATIONS FOR THE CONSTRUCTION OF THE EXISTING IMPROVEMENTS WHICH ARE BEING ALTERED OR REPLACED. CONTRACTOR SHALL CONTACT THE ENGINEER FOR SPECIFICATION SECTIONS FOR ITEMS SUCH AS LANDSCAPING AND IRRIGATION THAT ARE AFFECTED BY THE WORK BUT NOT COMPLETELY DETAILED OR SPECIFIED ON THESE PLANS.



CLEMSON UNIVERSITY CLEMSON, SOUTH CAROLINA





OWNER / DEVELOPER **CLEMSON UNIVERSITY**

ROBBIE PHILLIPS PROJECT MANAGER jphill2@clemson.edu

CIVIL ENGINEER

LAND PLANNING ASSOCIATES, INC. 110 WEST 1ST AVENUE SUITE A **EASLEY, SC 29640** 864.242.6072 ATTN: PATRICK M. RIVERS, PE



CORPORATE SEAL:

LAND PLANNING ASSOCIATES, INC. 110 WEST 1ST AVENUE - SUITE A **EASLEY, SC 29640** 864.242.6072 clemson@lpa-inc.net



UNIVERSIT	•
MEMORIAL HILL STORMWATER	•

	ISSUE FOR CONSTR
PLAN	PERMIT DATE:
	BID DATE:
	DRAWN BY:
	DESIGN BY:
	CHECKED BY:
	DATE:
	SCALE: HORIZ. 1" = 20'
	JOB NUMBER:

COVER SHEET

23.006

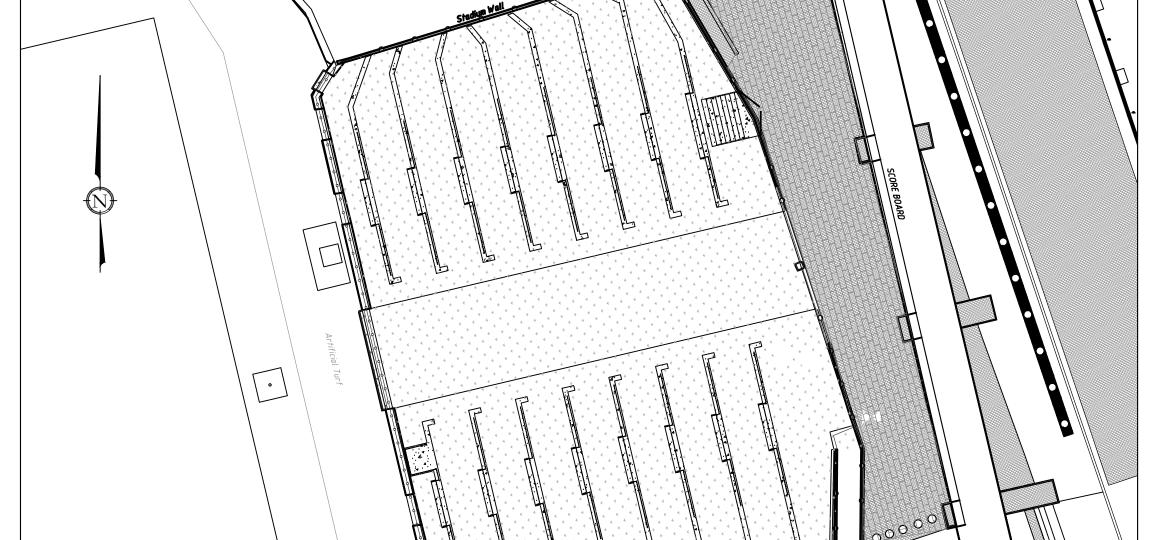
C-100

CUP- 4003483

WHEN PLOTTED AT FULL SIZE THIS SHEET MEASURES 22"x34"

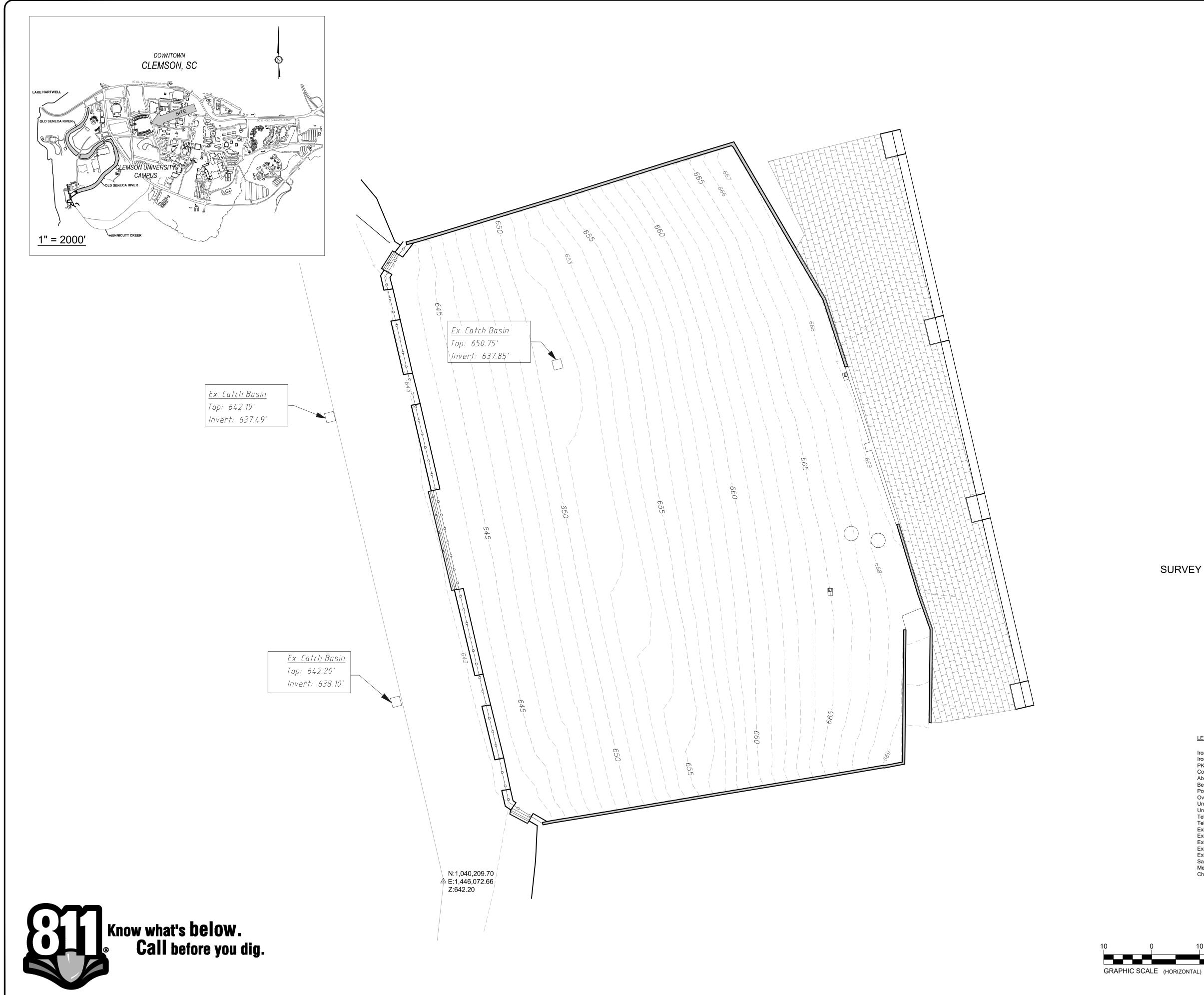
Know what's below.

Call before you dig.





SHEET	<u>TITLE</u>
C-100	COVER SHEET
C-101	EXISTING CONDITIONS
C-101A	CU ATLAS PLAN
C-102	DEMOLITION AND EROSION CONTROL PLAN
C-102A	CONSTRUCTION ACCESS PLAN
C-103	SITE PLAN
C-104	GRADING PLAN
C-105	STABILIZATION PLAN
C-106	CROSS SECTIONS
C-107	CROSS SECTIONS
C-108	FENCE DETAILS
C-109	SITE DETAILS
C-110	SITE DETAILS
C-111	EROSION CONTROL DETAILS



NO. DATE DESCRIPTION BY

SEAL:

CORPORATE SEAL:

LAND
PLANNING
ASSOCIATES
CIVIL ENGINEERING

LAND PLANNING ASSOCIATES, INC.

110 WEST 1ST AVENUE - SUITE A

EASLEY, SC 29640

864.242.6072

clemson@lpa-inc.net

SURVEY INFORMATION PROVIDED BY:



Metal Light Pole

Chain Link Fence



ISSUE FOR CONSTRUCTION:	

PERMIT DATE:

BID DATE:

JOB NUMBER:

DRAWN BY:

DESIGN BY:

CHECKED BY:

PMR

DATE:

3/28/23

SCALE:

HORIZ. 1" = 10'

VERT.

EXISTING CONDITIONS

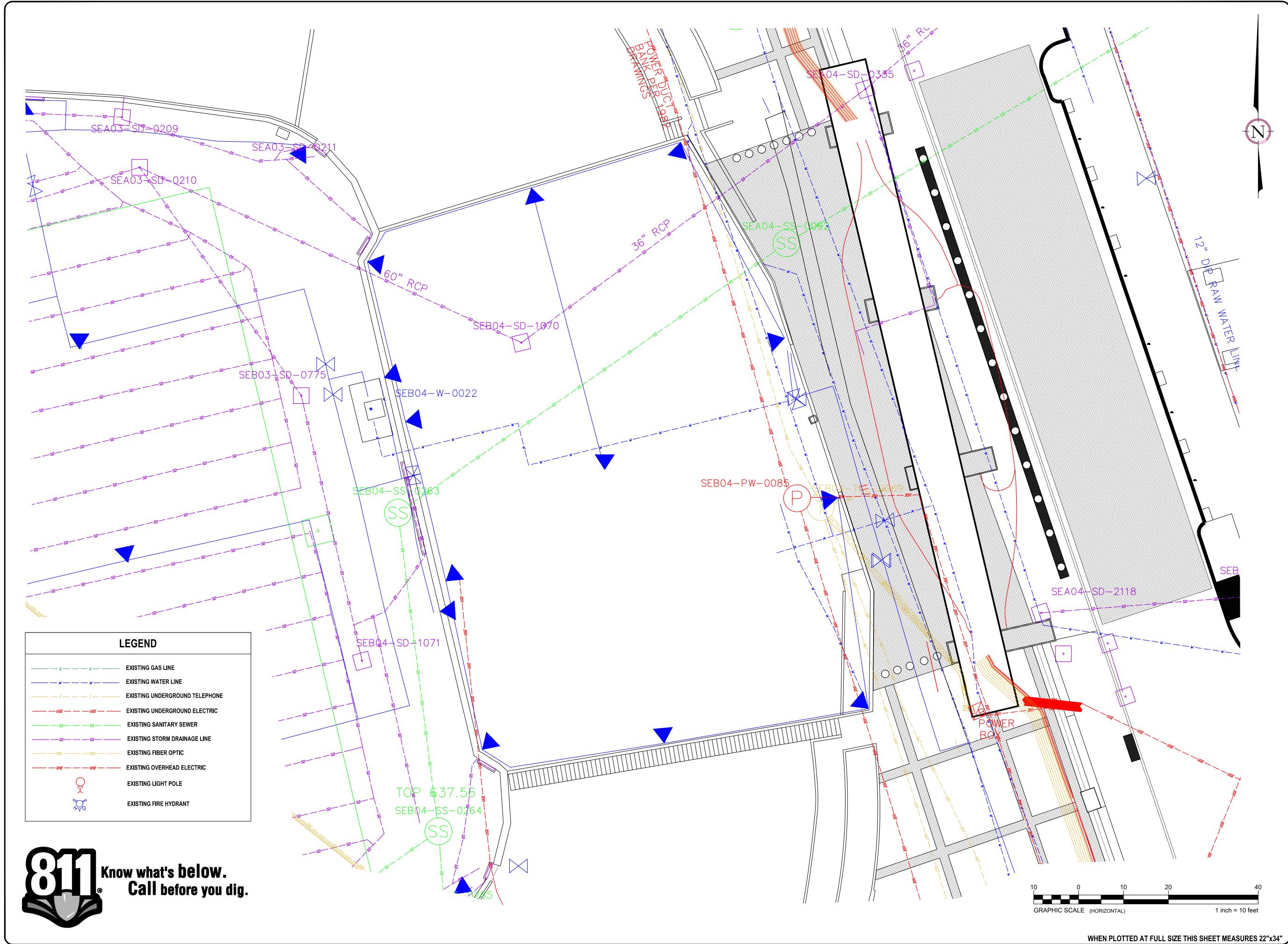
23.006

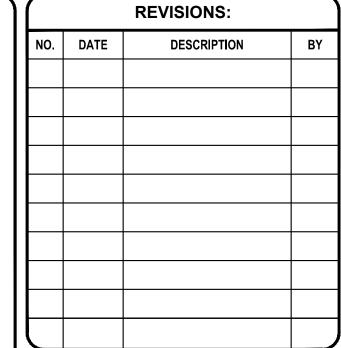
C-101

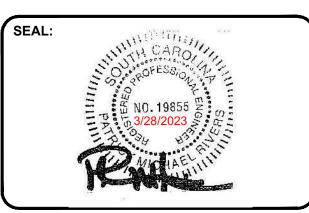
CUP- 4003483

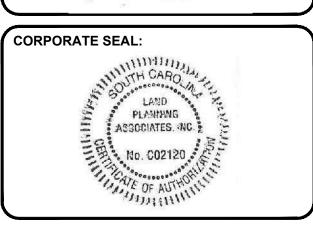
WHEN PLOTTED AT FULL SIZE THIS SHEET MEASURES 22"x34"

1 inch = 10 feet













ISSUE FOR CONSTRUCTION:					
PERMIT DATE:					
BID DATE:					
DRAWN BY:	JTH				
DESIGN BY:	WWC/JTH				
CHECKED BY:	PMR				
DATE:	3/28/23				
SCALE: HORIZ. 1" = 10'	VERT.				
JOB NUMBER:	23.006				

CU ATLAS PLAN

C-101A

APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS

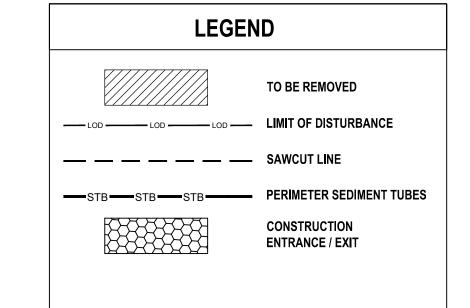
CIVIL DEMOLITION NOTES:

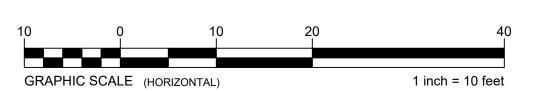
- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE DEMOLITION AND REMOVAL OF THE STRUCTURES LOCATED ON THIS SITE.
- 2. CONTRACTOR TO SAW-CUT EXISTING PAVEMENT AS REQUIRED TO REMOVE PAVEMENT AS
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD LOCATIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED ON THE PLAN OR TWELVE INCHES (12"), WHICHEVER IS LESS, CONTACT THE DESIGN ENGINEER AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 4. THE CONTRACTOR SHALL REMOVE EXISTING STORM DRAIN LINES, ASPHALT PAVEMENT, CONCRETE CURB, AND ANY OTHER EXISTING CONDITION WHICH WILL INTERFERE WITH THE WORK AS PROPOSED ON THESE PLANS.
- 5. UTILITIES SERVICING CLEMSON UNIVERSITY SHOULD NOT BE INTERRUPTED DURING CLEMSON UNIVERSITY OPERATING HOURS.
- 6. DEMOLITION SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL
- 7. ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DELIVERED TO A LICENSED TRANSFER
- 8. THE TRENCHES WHERE EXISTING UTILITIES HAVE BEEN REMOVED OR RELOCATED SHALL BE RECOMPACTED TO 95% STANDARD PROCTOR.
- 9. THE CONTRACTOR SHALL NOTIFY ALL PERTINENT UTILITY COMPANIES 48 HOURS PRIOR TO ANY DEMOLITION WORK. ALL DEMOLITION WORK SHALL BE COORDINATED WITH LOCAL UTILITY COMPANIES AND CLEMSON UNIVERSITY TO MINIMIZE IMPACTS ON UTILITY DOWN TIME.
- 10. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY DEMOLITION BEGINS.
- 11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SITE SPECIFICATIONS.
- 12. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- 13. IF DEMOLITION OR CONSTRUCTION ON SITE WILL INTERFERE WITH THE TRAFFIC FLOW OR ADJACENT PROPERTY OWNER'S TRAFFIC FLOW, THE CONTRACTOR SHALL COORDINATE WITH CONSTRUCTION MANAGER AND THE ADJACENT PROPERTY OWNER, TO MINIMIZE THE IMPACTS ON TRAFFIC FLOW. TEMPORARY RE-ROUTING OF TRAFFIC IS TO BE ACCOMPLISHED BY USING DOT APPROVED TRAFFIC BARRICADES, BARRELS, AND/OR CONES.

CONSTRUCTION SEQUENCE

- 1. RECEIVE UNDER 1 ACRES APPROVAL FROM CLEMSON UNIVERSITY.
- 2. SCHEDULE PRE-CONSTRUCTION MEETING WITH OWNER AND ENGINEER.
- 3. INSTALL CONSTRUCTION ENTRANCE.
- 4. INSTALL PERIMETER SEDIMENT TUBES AND INLET PROTECTION. 5. DEMOLISH EXISTING GRASS AND TOP SOIL.
- 6. GRADE PORTION OF DISTURBED AREA TO PROPOSED GRADES. 7. INSTALL PROPOSED RETAINING WALLS AND UNDER DRAINAGE.
- 8. INSTALL PROPOSED FENCING AND GATES.
- 9. ONCE CONSTRUCTION IS COMPLETE, ENSURE ALL AREAS ARE PERMANENTLY STABILIZED.

TOTAL CONSTRUCTION TIME= +/- 2 MONTHS

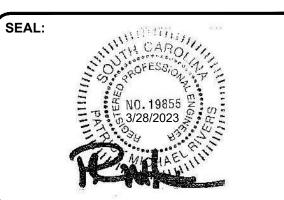


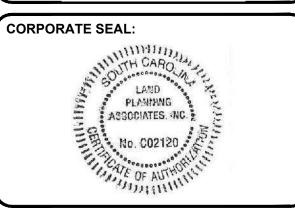


REVISIONS:

DESCRIPTION

NO. DATE







LAND PLANNING ASSOCIATES, INC. 110 WEST 1ST AVENUE - SUITE A **EASLEY, SC 29640** 864.242.6072 clemson@lpa-inc.net



ISSUE FOR CONSTRUCTION:

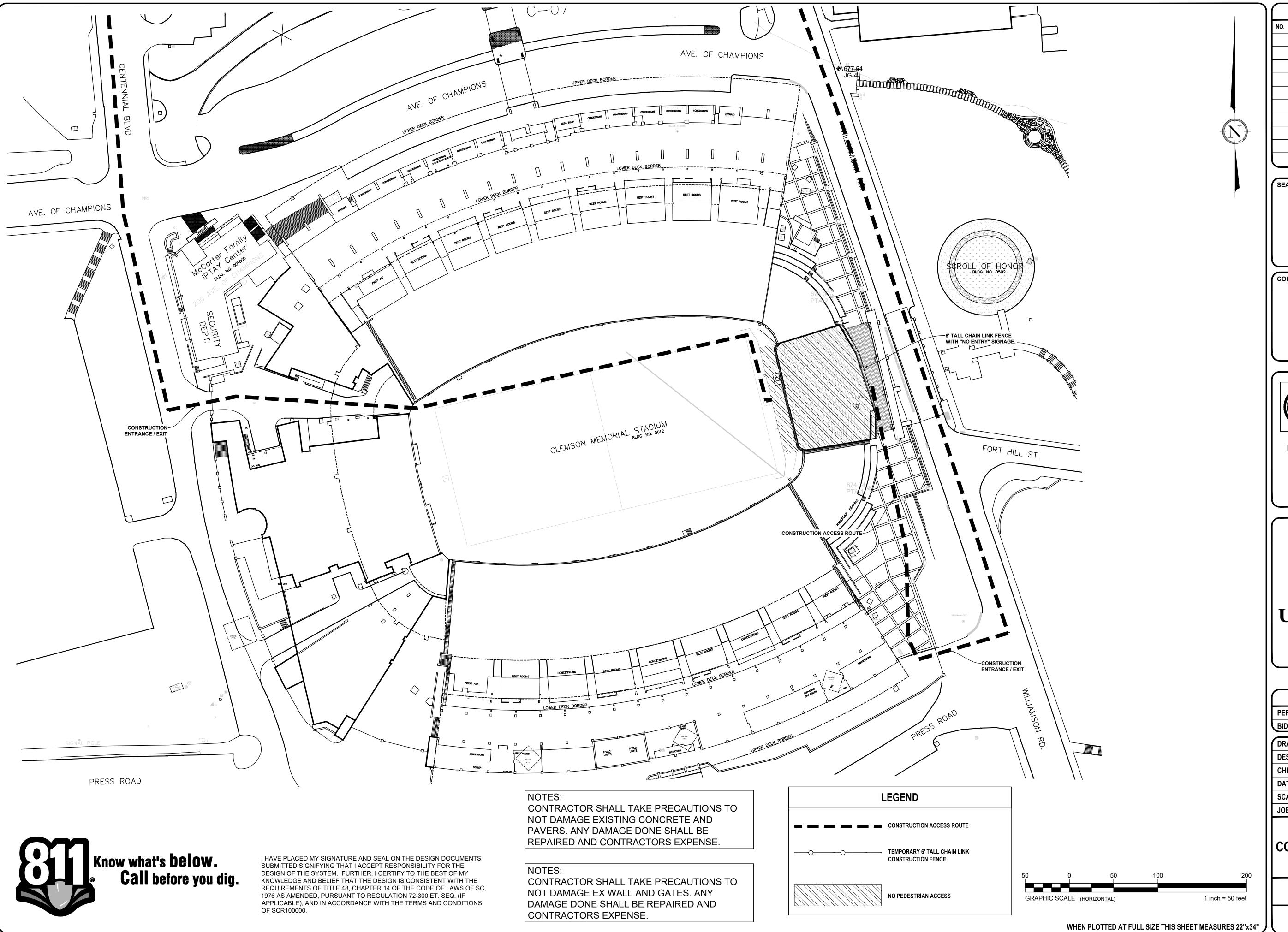
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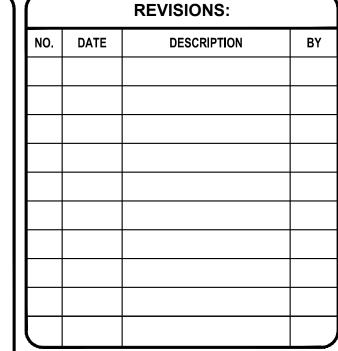
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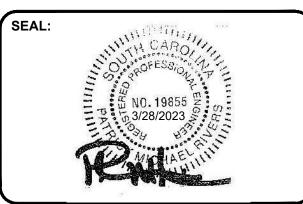
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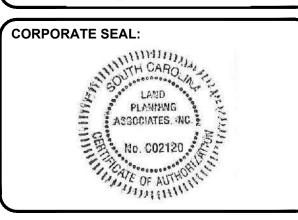
DEMOLITION AND EROSION CONTROL PLAN

C-102













MEMORIAL HILL STORMWATER

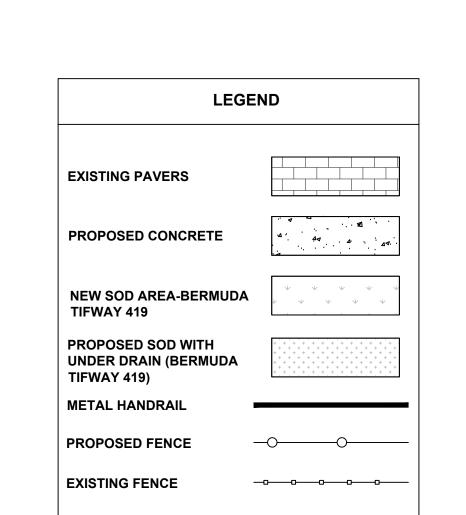
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l	DRAWN BY:			JTH
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	CHECKED BY	' :		PMR
	DATE:			3/28/23
	SCALE:	HORIZ. 1" = 50'	VERT.	

JOB NUMBER: 23.006

CONSTRUCTION ACCESS PLAN

C-102A

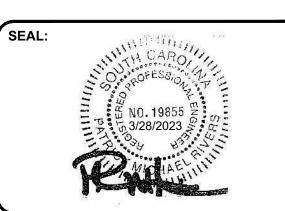


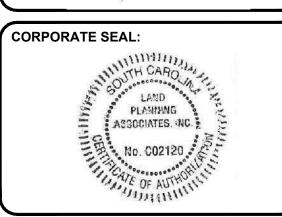
SITE NOTES:

- 1. ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO FACE OF CURB, FACE OF BUILDING, OR CENTERLINE OF PARKING BAY.
- 2. UNLESS NOTED OTHERWISE, PAVEMENT SHALL BE STANDARD DUTY PAVEMENT.
- 3. ALL CONCRETE SIDEWALKS AND APRONS SHALL RECEIVE CONSTRUCTION JOINTS AT 25' ON CENTER UNLESS OTHERWISE NOTED.
- 4. CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN THE PROJECT AND PAY ALL REQUIRED FEES AND COSTS.
- 5. CONTRACTOR SHALL COORDINATE WITH CLEMSON UNIVERSITY TO MINIMIZE THE IMPACT ON TRAFFIC FLOW. TEMPORARY SIGNAGE AND FLAGMEN MAY ALSO BE NECESSARY.
- 6. I HOOK TO BE INSTALLED ON ENDS OF ALL HANDRAIL DOWN THE MIDDLE AISLE TO ALLOW FOR MIDDLE AISLE TO BE ROPED OFF DURING GAMES. CONTRACTOR TO SUBMIT SHOP DRAWING FOR REVIEW.



REVISIONS: DESCRIPTION







LAND PLANNING ASSOCIATES, INC. 110 WEST 1ST AVENUE - SUITE A EASLEY, SC 29640 864.242.6072 clemson@lpa-inc.net



SSUF	FOR	CONS	TRU	CTION	

PERMIT DATE:

JOB NUMBER:

BID DATE:		
DRAWN BY:		JTH
DESIGN BY:		WWC/JTH
CHECKED BY:		PMR
DATE:		3/28/23
SCALE:	HORIZ. 1" = 10'	VERT.

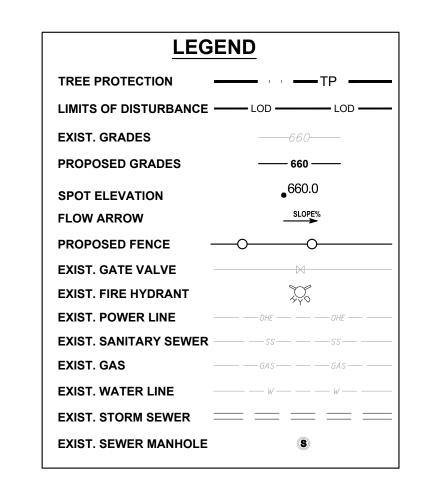
SITE PLAN

23.006

C-103

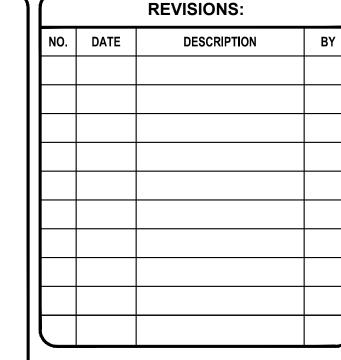
CUP- 4003483

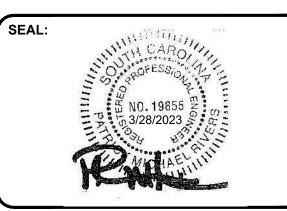
WHEN PLOTTED AT FULL SIZE THIS SHEET MEASURES 22"x34"

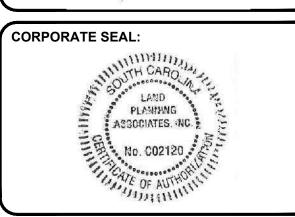


GRADING NOTES:

- 1. ALL SLOPES AND AREAS DISTURBED BY
 CONSTRUCTION SHALL BE GRADED SMOOTH AND
 FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE
 TOPSOIL IS NOT AVAILABLE ON SITE, THE
 CONTRACTOR SHALL PROVIDE TOPSOIL APPROVED
 BY THE OWNER, AS NEEDED. THE AREA SHALL THEN
 BE SEEDED/ SODDED, FERTILIZED, MULCHED,
 WATERED AND MAINTAINED UNTIL HARDY GRASS
 GROWTH IS ESTABLISHED IN ALL AREAS. ANY
 RELOCATED TREES SHALL BE MAINTAINED UNTIL
 SUCH POINT AS TREE IS RE-ESTABLISHED. ANY
 AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL
 ACCEPTANCE OF THE PROJECT SHALL BE
 CORRECTED BY THE CONTRACTOR AT NO
 ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO VERIFY FIELD ELEVATIONS OF PROPOSED DRAINAGE STRUCTURES AND ADJACENT PAVEMENT CONSTRUCTED PRIOR TO STARTING CONSTRUCTION.
- 3. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS FORM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- 4. CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO KEEP SEDIMENT FROM ENTERING THE ROADWAY AND PARKING LOT OR LEAVING THE SITE, AND ENSURE THE ROADWAY IS KEPT CLEAR.









LAND PLANNING ASSOCIATES, INC.

110 WEST 1ST AVENUE - SUITE A

EASLEY, SC 29640

864.242.6072
clemson@lpa-inc.net



ISSUE FOR CONSTRUCTION:
PERMIT DATE:

BID DATE:

 DRAWN BY:
 JTH

 DESIGN BY:
 WWC/JTH

 CHECKED BY:
 PMR

 DATE:
 3/28/23

 SCALE:
 HORIZ. 1" = 10'

 VERT.
 23.006

GRADING PLAN

C-104

CUP- 4003483

10 0 10 20

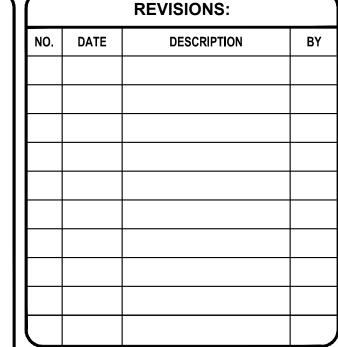
GRAPHIC SCALE (HORIZONTAL)

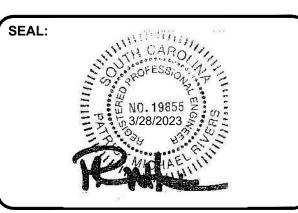
Know what's below.
Call before you dig.

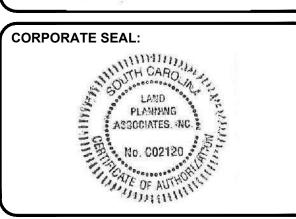
WHEN PLOTTED AT FULL SIZE THIS SHEET MEASURES 22"x34"

1 inch = 10 feet









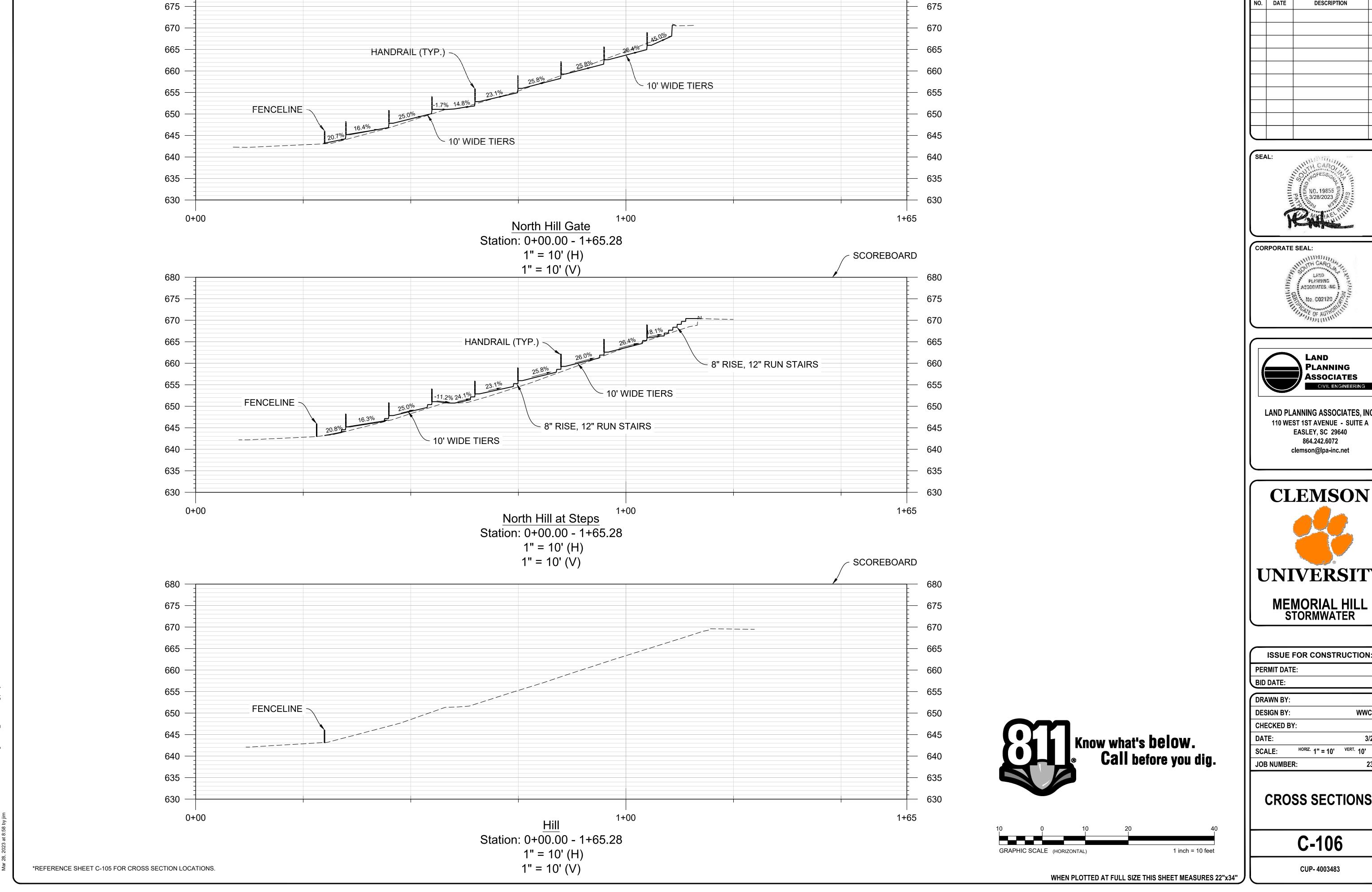


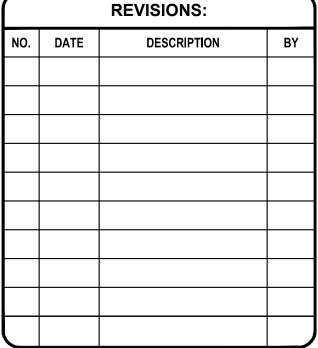


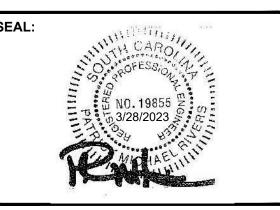
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PERMIT DATE:	
BID DATE:	
DRAWN BY:	JTH
DESIGN BY:	WWC/JTH
CHECKED BY:	PMR
DATE:	3/28/23
SCALE: HORIZ. 1" = 10'	VERT.
JOB NUMBER:	23.006
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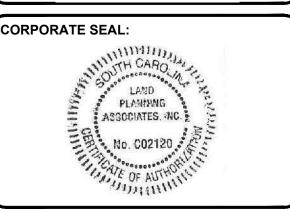
STABILIZATION PLAN

C-105











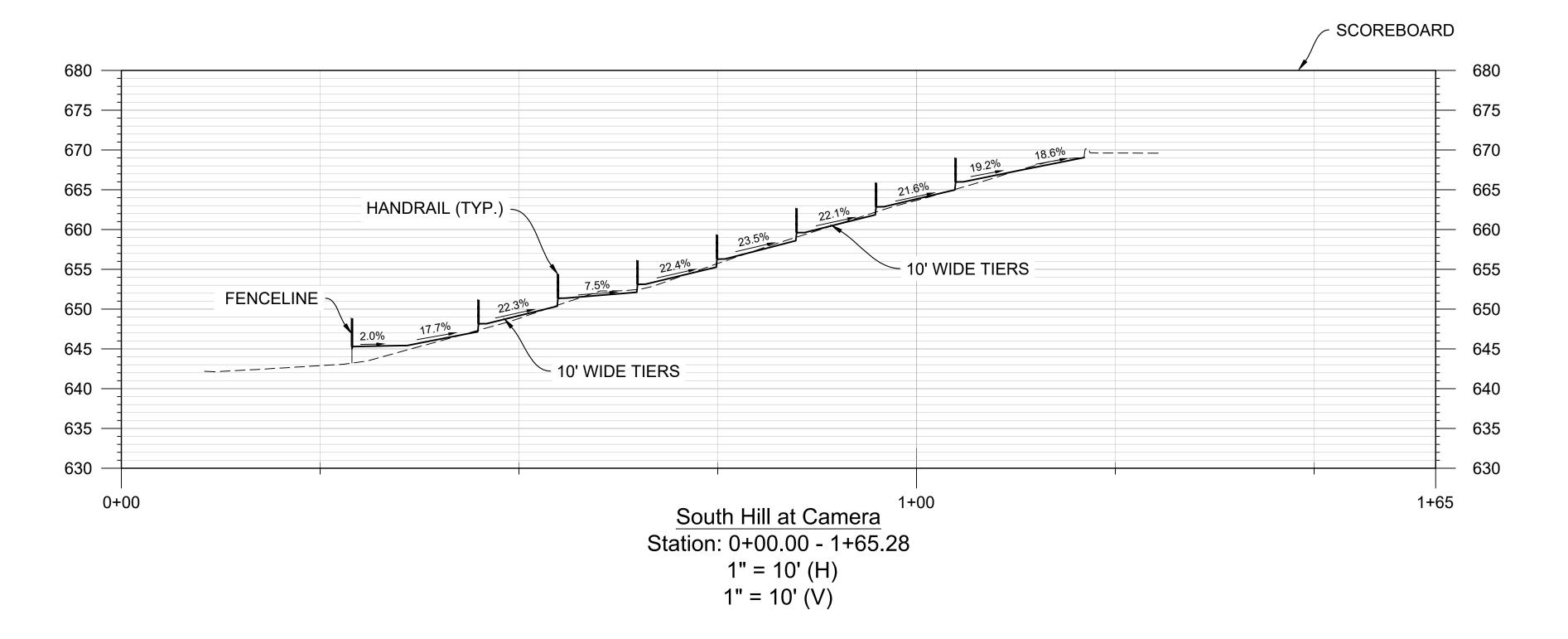


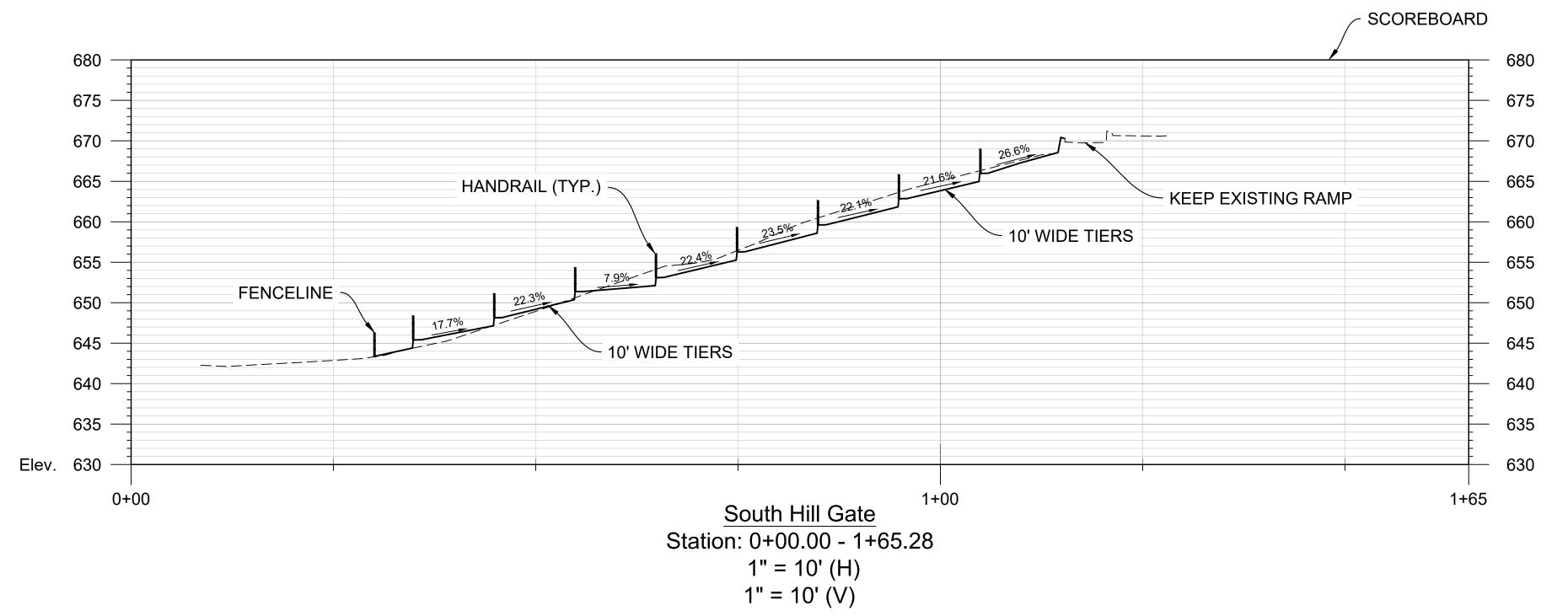
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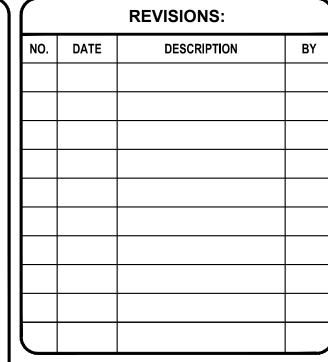
WWC/JTH 3/28/23 HORIZ. 1" = 10' VERT. 10'

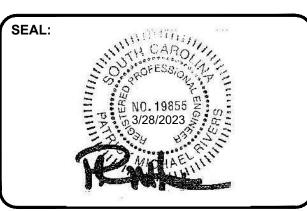
23.006

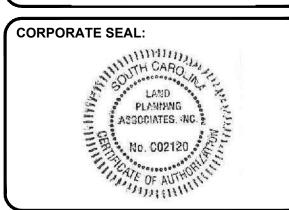
CROSS SECTIONS















ISSUE FOR CONSTRUCTION: **PERMIT DATE:** BID DATE: DRAWN BY: WWC/JTH **DESIGN BY:** CHECKED BY:

3/28/23 HORIZ. 1" = 10' VERT. 10' SCALE: JOB NUMBER:

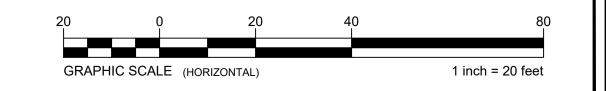
CROSS SECTIONS

C-107

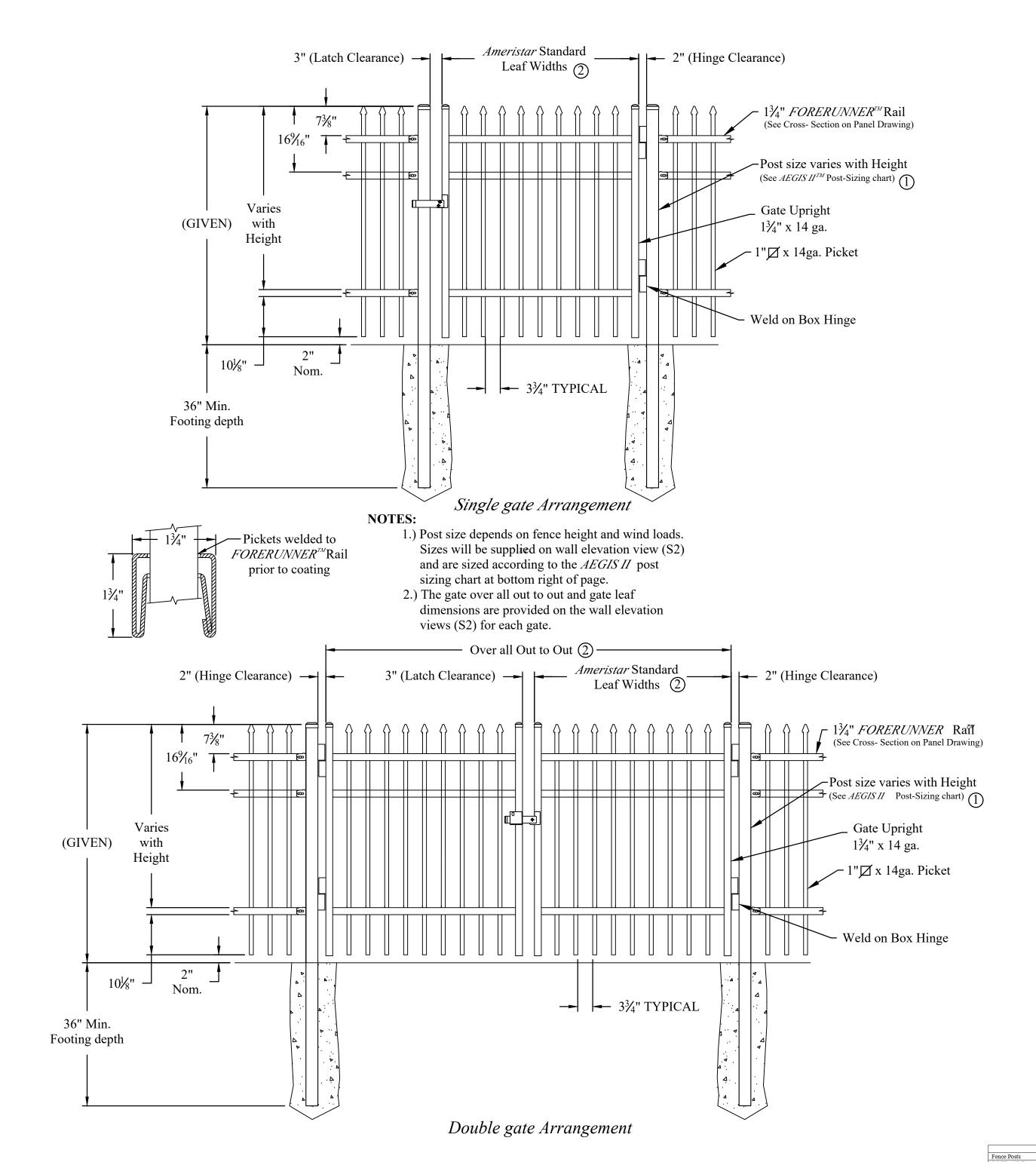
CUP- 4003483

Know what's below.

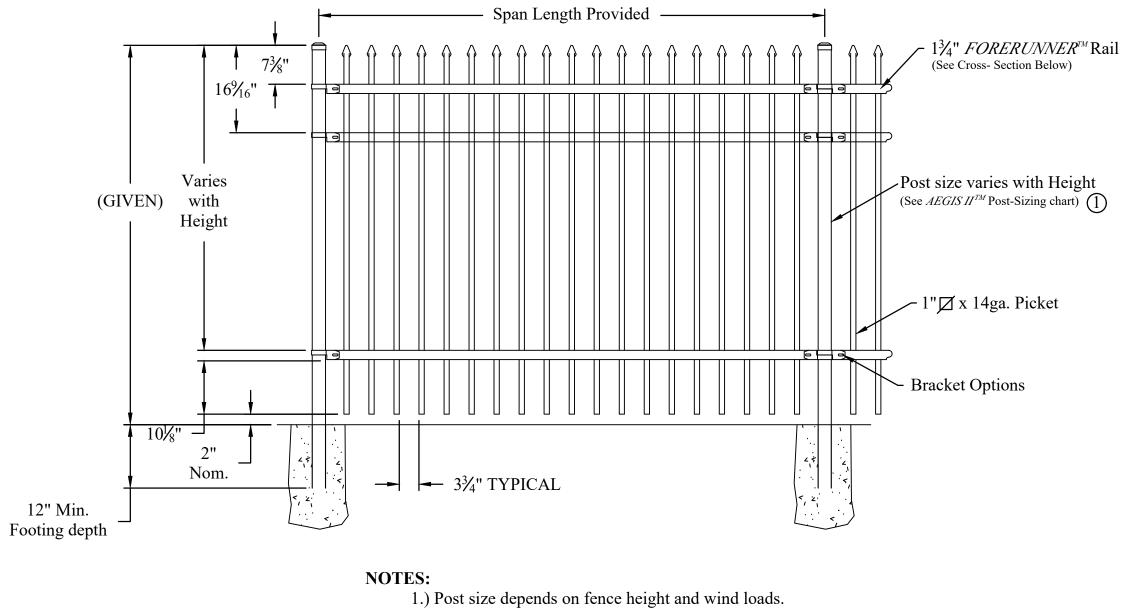
• Call before you dig.

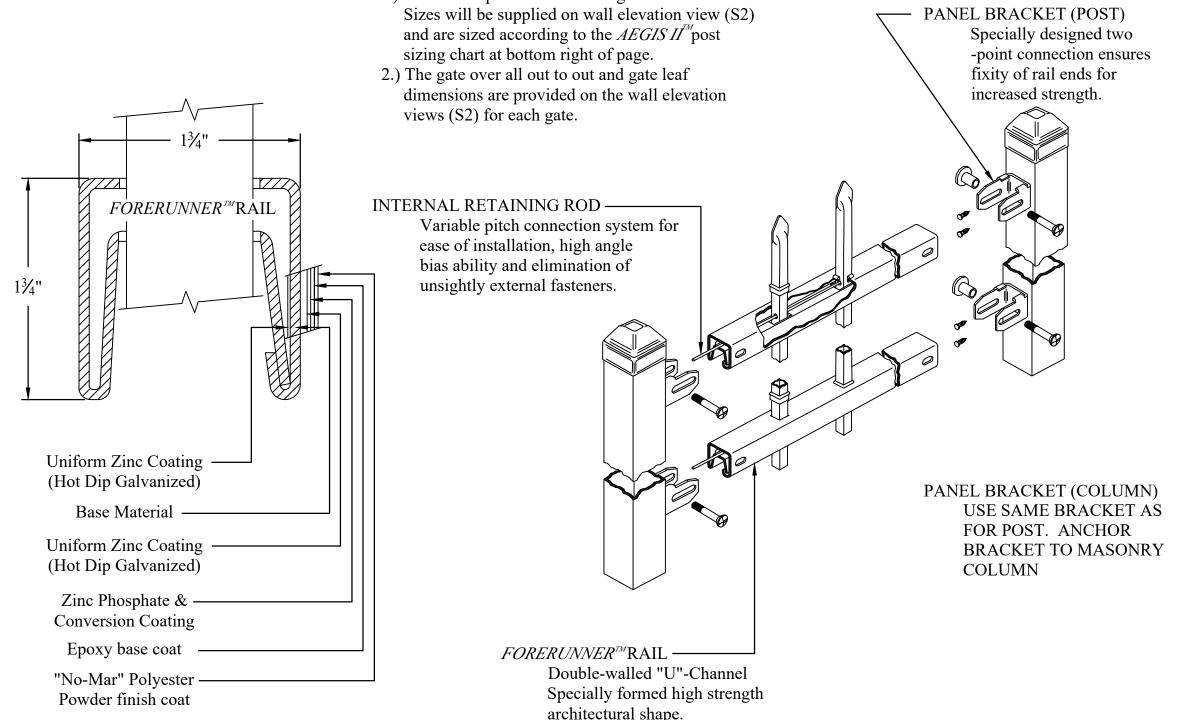


FENCING TO BE PURCHASED AND INSTALLED BY CLEMSON UNIVERSITY.



REV: a





		Fence Posts	Panel Height				Quality Characteristics	ASTM Test Method	Performance Requirements	Span F	or INVINCIBLE®	For CLASSIC, GENESIS, &	MAJESTIC	
		2-1/2" x 12 Ga.	Up to & Including 6'	Height			Adhesion	D3359 - Method B	Adhesion (Retention of Coating) over 90% of test area (Tape and	8	' Nominal (91.25" Rail)	8' Nominal (92.625" Rail)		
		3" x 12 Ga.	Over 6' Up to & Inclu	uding 10' Height					knife test).	Post Size	2-1/2" 3"	2-1/2" 3"	2-1/2" 3"	2-1/2" 3"
		4" x 11 Ga.	Over 10' Height				Corrosion Resistance	B117, D714 & D1654	Corrosion Resistance over 3,500 hours (Scribed per D1654;	Bracket Type	Industrial	Industrial Industrial	Industrial	Industrial
									failure mode is accumulation of 1/8" coating loss from scribe or		Flat Mount	Universal Universal	Industrial Flat Mount (BB301)	Swivel
				Gate	e Height				medium #8 blisters).		(BB 301)	(BB302) (BB303)	(BB301)	(BB304)*
INDICTRIAL CTRENCTIL CTEEL		Gate Leaf	Un to & Including 6'	Over 6' Un to &	Over 8' Un to &	Over 12°	Impact Resistance	D2794	Impact Resistance over 60 inch lb. (Forward impact using 0.625"	Post Settings	94_1/2" 95"	96" 96.5"	96" 96-1/2"	*07.5" *08"
INDUSTRIAL STRENGTH STEEL	20	CISO	op to te metadaig o	Including 8'	Including 10°	<u>0va 12</u>			ball).	± 1/2" O.C.	J4-1/2 J3	30 30.3	50 50-1/2	77.3
	20	IIn to 4	2" v 12Go	2" v 12 Go	4" v 11 Go	4" v 11 Ga	Weathering Resistance	D822 D2244, D523 (60° Method	Weathering Resistance over 1,000 hours (Failure mode is 60%					
Title:		4°1° to 6°	3" r 12Ga	3" x 12 Ga.	4 x 11 Ga.	4" v 11 Co			loss of gloss or color variance of more than 3 delta-E color units).	Span F	or INVINCIBLE®	For CLASSIC, GENESIS, &	MAJESTIC	
A ECICII CI ACCIC 2 DAII DDONZE	15553136	41 100	3 X 12Ga.	3 x 12 Ga.	4 x 11 Ga.	4 X 11 Ga.					6' Nominal (67.75" Rail)	6' Nominal (71.375" Rail)		
AEGIS II CLASSIC 3-RAIL BRONZE	1555 N. Mingo	6.1., 10.8.	4" X 11 Ga.	6" x 3/16"	6" X 3/16"	6" X 3/16"				Post Size	2-1/2" 3"	2-1/2" 3"	2-1/2" 3"	2-1/2" 3"
DR: RTM SH. 1 of 1 SCALE: DO NOT SCALE AMERICAN AMERIC		8°1" to 10°	4" x 11 Ga.	6" x 3/16"	6" x 3/16"	6" x 3/16"				Bracket Type	Industrial	Industrial Industrial	Industrial	Industrial
	$\mathbf{T} \wedge \mathbf{D} \otimes \mathbf{T}_{\text{ulsa}} \cap \mathbf{K} = 74116$	10°1° to 12°	6" x 3/16"	6" x 3/16"	6" x 3/16"	8" x 1/4"					Flat Mount	Universal Universal	Industrial Flat Mount	Swivel
LDR. RTM SH 10f1 SCALE. DO NOT SCALE IDA 41 A VIEW IS	T A P[®] Tulsa, OK 74116	12°1" to 16°	6" x 3/16"	6" x 3/16"	8" x 1/4"	8" x 1/4"					(BB 301)	(BB302) (BB303)	(BB301)	(BB304)*
DR: RTM SH. 1 of 1 SCALE: DO NOT SCALE III). LIII A IVICKI										Post Settings	75" 75.5"	71.5" 70"	71 522 502	*****
	1-888-333-3422									± 1/2" O.C.	/5.5	/1.5 /2	/1.5	*/3 */3.5

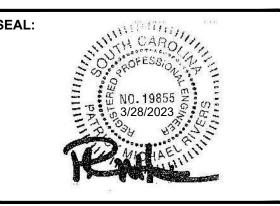
www.ameristarfence.com

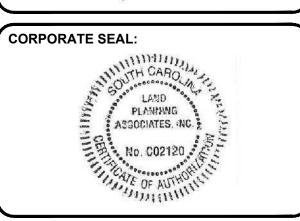
SEAL:

REVISIONS:

DESCRIPTION

NO. DATE







LAND PLANNING ASSOCIATES, INC. 110 WEST 1ST AVENUE - SUITE A **EASLEY, SC 29640** 864.242.6072 design@lpa-inc.net



ISSUE FOR CO	NSTRUCTION:
PERMIT DATE:	
BID DATE:	
DRAWN BY:	JTH
DESIGN BY:	WWC/JTH
CHECKED BY:	PMR
DATE:	3/28/23

FENCE DETAILS

SCALE:

JOB NUMBER:

HORIZ. 1" = 10' VERT.

23.006

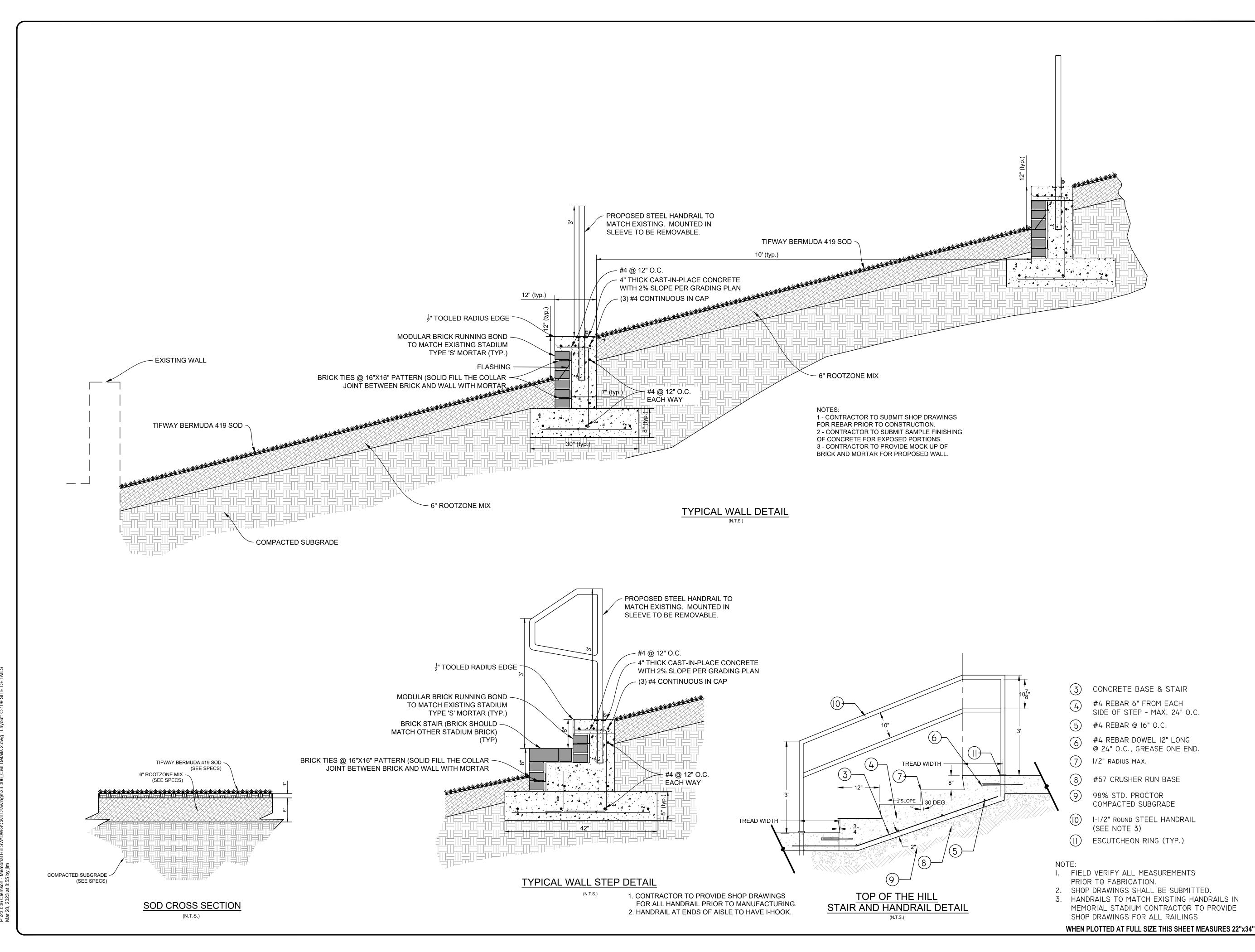
C-108

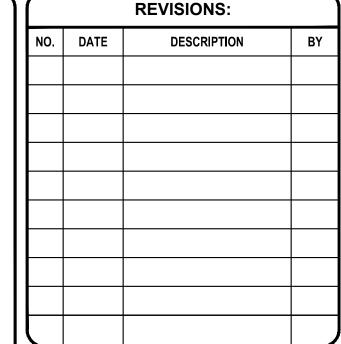
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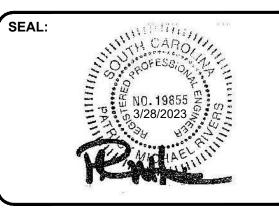
CK: MM

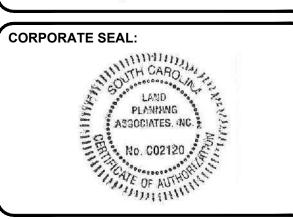
Date 5/15/06

*Note: When using BB304 swivel brackets on either or both ends of a panel installation, care must be taken to ensure the spacing









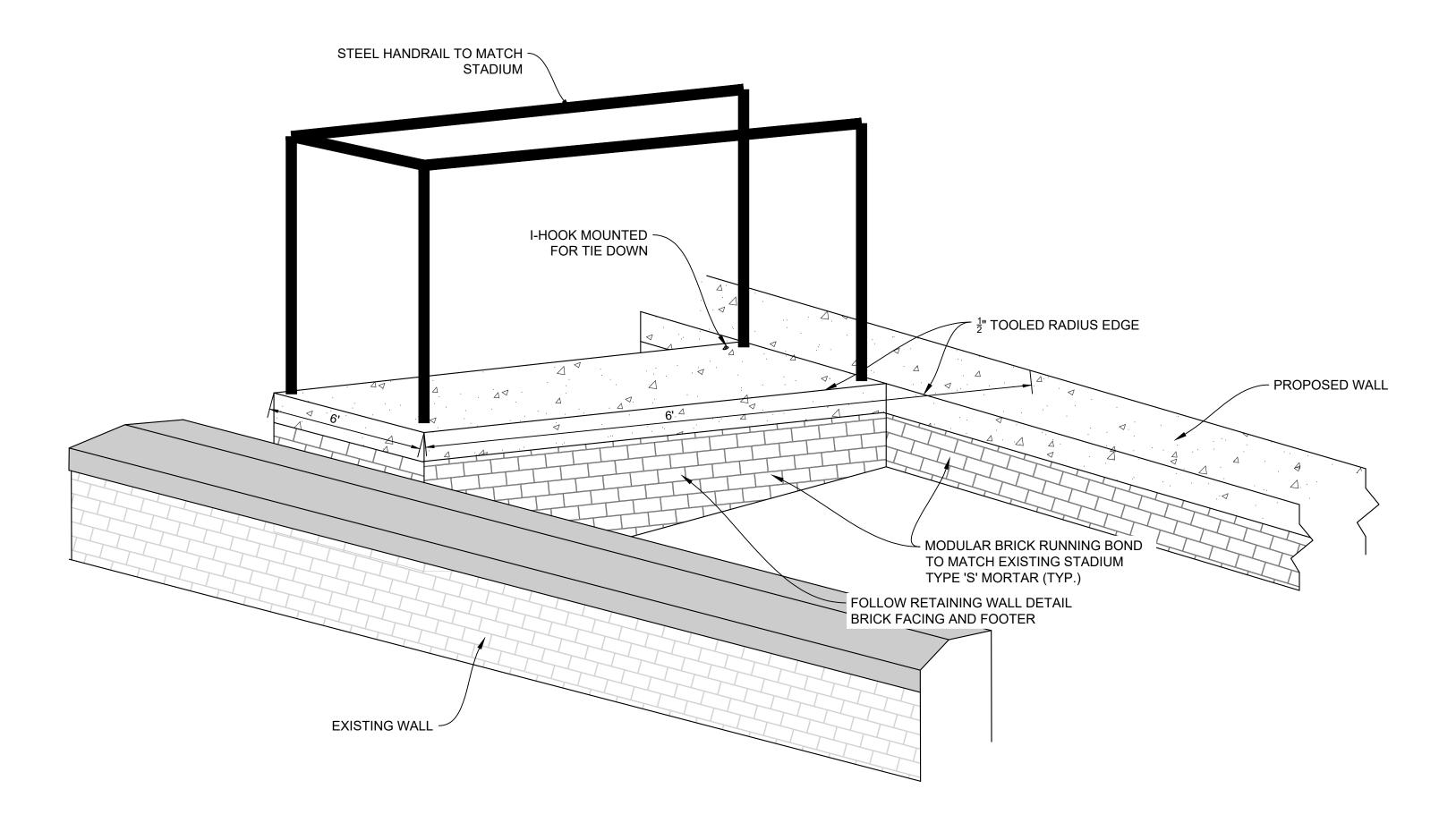




ISSUE FOR CONSTRUCTION:		
PERMIT DATE:		
BID DATE:		
DRAWN BY:		JTH
DESIGN BY:		WWC/JTH
CHECKED BY:		PMR
DATE:		3/28/23
SCALE:	ORIZ. 1" = 10'	VERT.
JOB NUMBER:		23.006

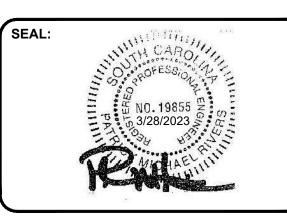
SITE DETAILS

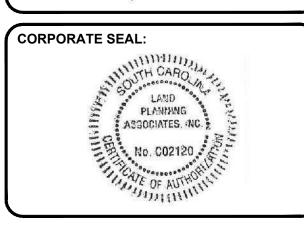
C-109



CAMERA PLATFORM DETAIL

NO. DATE DESCRIPTION BY







LAND PLANNING ASSOCIATES, INC.

110 WEST 1ST AVENUE - SUITE A

EASLEY, SC 29640

864.242.6072

design@lpa-inc.net



ISSUE FOR CONSTRUCTION:

PERMIT DATE:
BID DATE:

JOB NUMBER:

DRAWN BY:

DESIGN BY:

CHECKED BY:

DATE:

SCALE:

DRAWN BY:

WWC/JTH

WWC/JTH

S'/STATE

WWC/JTH

VERT.

SITE DETAILS

23.006

C-110

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

INITIATED AS SOON AS PRACTICABLE. * WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IN TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS. TEMPORARY STABILIZATION MEASURES DO NOT

OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE

HAVE TO BE INITIATED ON THAT PORTION OF THE SITE. 3. SEDIMENT AND EROSION CONTROL DEVICES MUST BE INSPECTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED LINTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMP'S BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES. AFTER THE INSTALLATION OF BMP'S. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

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

SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE 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.

CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE

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.

TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM A SLOPE 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.

11. THE CONTRACTOR WILL PROVIDE A PLACE FOR CONCRETE TRUCKS TO WASHOUT AND THE WASHOUT IS TO BE BURIED ONSITE UNTIL CONSTRUCTION IS COMPLETE. WHEN CONSTRUCTION IS COMPLETE THE WASTE IS TO BE HAULED OFF TO A LANDFILL.

12. CONSTRUCTION ENTRANCES TO BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ACCESSES A PAVED ROADWAY.

13. INLET PROTECTION WILL BE PROVIDED AT ALL EXISTING INLETS THAT RECEIVED FLOWS FROM THE DISTURBED AREAS. 14. ALL OFF-SITE BORROW SITES MUST HAVE A SEPARATE NPDES PERMIT

15. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR AT NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

16. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7

17. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL 18. 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 ALTERNATE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE

19. 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,

20. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: 20.1. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN

20.2. WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPONENTS, AND OTHER CONSTRUCTION

MATERIALS: 20.3. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE: AND

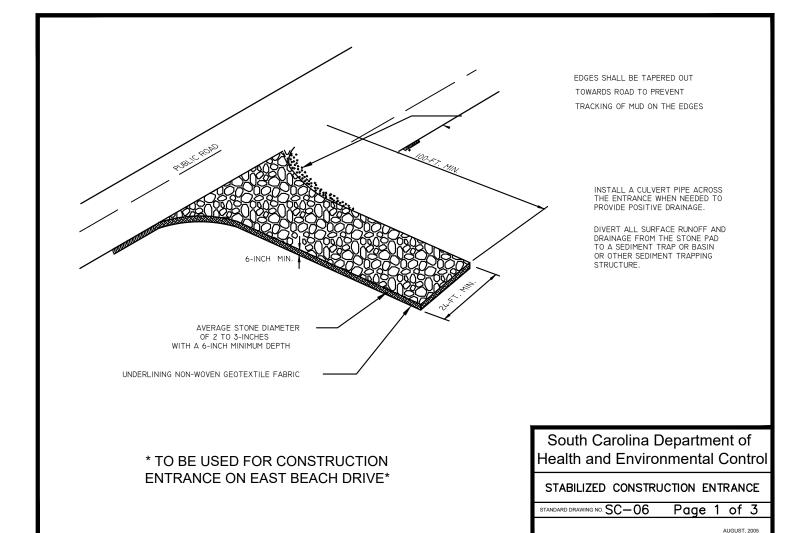
20.4. SOAPS SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING" 21. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

22. 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 EVEN WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENT IN THE SWPPP AND ALTERNATE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE." 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 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

THE CONTRACTOR SHALL PROVIDE A PORTABLE TOILET IN AN AREA THAT IS AT LEAST 50' FROM ANY WATERS OF THE STATE AND/OR STORM DRAIN

BLOWN/PLACED FILTER MEDIA™ -



STABILIZED CONSTRUCTION ENTRANCE

Stabilized construction entrances should be used at all points where traffic will be leaving a construction site and moving directly onto a public road.

If washing is used, provisions must be made to intercept the wash water and trap the sediment before it is carried offsite. Washdown facilities shall be required as directed by SCDHEC as needed. Washdown areas in general must be established with crushed gravel and drain into a sediment trap or sediment basin. Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by vehicles.

Remove all vegetation and any objectionable material from the foundation area.

Divert all surface runoff and drainage from stones to a sediment trap or basin.

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 1-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

The edges of the entrance shall be tapered out towards the road to prevent tracking of mud at the edge of the entrance.

South Carolina Department of Health and Environmental Control STABILIZED CONSTRUCTION ENTRANCE $^{\text{NDARD}}$ DRAWING NO. SC-06 Page 2 of 3

STABILIZED CONSTRUCTION ENTRANCE

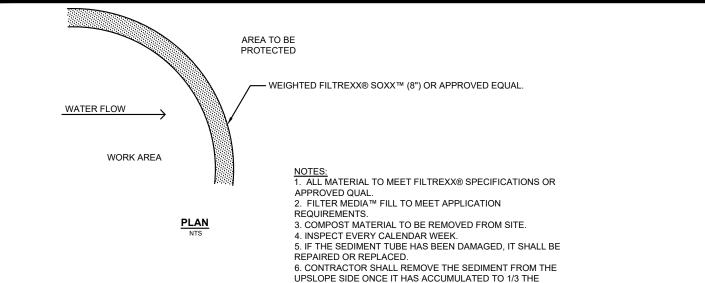
Inspect construction entrances at a minimum of at least once every calendar week, with no time period between inspections exceeding 9 days, and must be conducted until final stabilization is reached. Check for mud and sediment buildup and pad integrity. Make daily inspections during periods of wet weather. Maintenance is required more frequently in wet weather conditions. Reshape the stone pad as needed for drainage and runoff control.

Wash or replace stones as needed and as directed by the inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone.

mmediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

Repair any broken pavement immediately.

South Carolina Department of Health and Environmental Contro STABILIZED CONSTRUCTION ENTRANCE awing no. SC-06 Page 3 of 3



HEIGHT OF THE SEDIMENT TUBE.

SEDIMENT TUBE - PERIMETER CONTROL

Contractor to chose one or approved equal.

Vinyl-Con 8'x10' Concrete Washout (or approved equal) lace empty filter bag inside Vinyl-Con® Washout watertight container.



filter bag with solids and wastewater. You may use Vinyl-Con® <u>rout System</u> with filter bags for washing out concrete trucks, slurry, nuum truck applications, concrete pump trucks, paint disposal and

Decide on your wastewater treatment option. You may use either Zeroon or Aqua-Solution to treat the water prior to lifting the solids ntaining slurry, sludge or thick wastewater. Once wastewater is: reated, lift solids and/or treated water out with filter bag. You may ispose of contents in landfill, use as road base or take to a recyler. The water tight Vinyl-Con is now ready for another filter bag. The Vinyl-Con is

1. Check all concrete washout facilities daily to determine if they have been filled to 75% capacity. The

facility needs to be cleaned or changed when 75% full. 2. Inspect self-installed washouts daily to ensure that plastic linings are intact and sidewalls have not

been damaged by construction activities. 3. Inspections must be conducted at a minimum of at least once every calendar week, with no time period between inspections exceeding 9 days, and must be conducted until final stabilization is reached on all areas of the construction site

4. If the washout is nearing capacity, vacuum and dispose of the waste material in an approved manner. Do not discharge liquids to waterways, storm drains or directly onto ground.

5. You can remove hardened concrete whole or you can break it up first, depending on the type of equipment available at your site. You can then reuse the concrete onsite or haul it away for disposal

6. When you remove materials from the concrete washout, inspect for signs of weakening or damage, and rebuild structure or make necessary repairs. Install a new plastic liner after every cleaning.

PORTABLE CONCRETE WASHOUT CONTAINER (Or approved equal)

A portable, self-contained and watertight container affixed with ramps that controls, captures and contains **PURPOSE & OBJECTIVE**

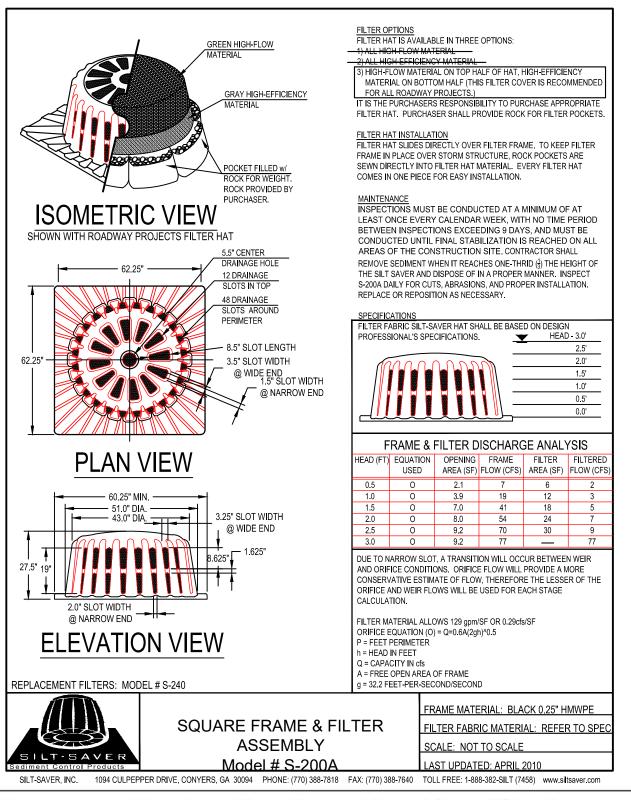
Allows trade personnel to easily washout concrete trucks, pumps and other equipment associated with cement on site and allows easy off site recycling of the same concrete materials and wastewater. Construction projects where concrete, stucco, mortar, grout and cement are used as a construction material or where cementitious wastewater is created.

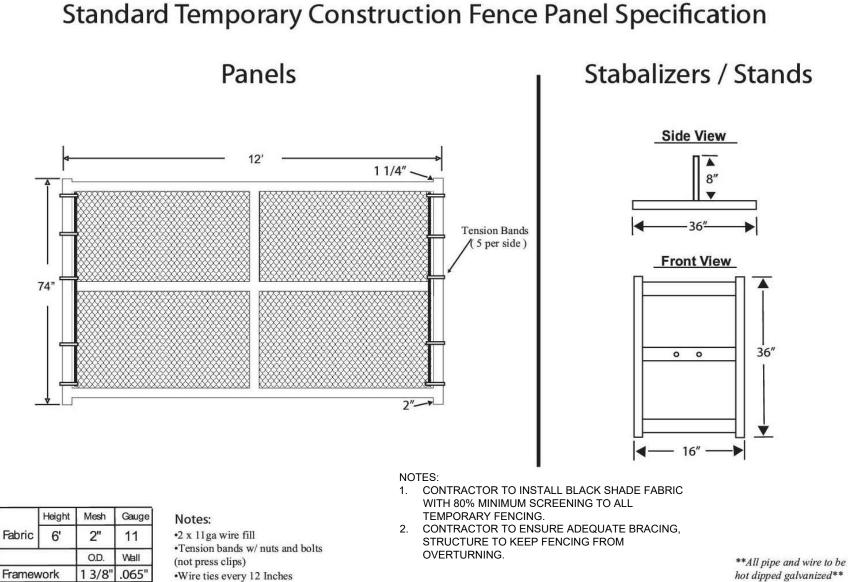
MAINTENANCE
Inspect and clean out when ¾ full, not allowing the container to overflow.
Inspect wastewater level and request a vacuum if needed.
Inspect subcontractors to ensure that proper housekeeping measures are employed when washing out

The container must be portable and temporary, watertight, equipped with ramps and have a holding capacity to accept washout from approximately 350 yards of poured concrete. A vacuum service must accompany washout container and be used by site superintendent as needed. A rampless container may be used in conjunction with a ramped container or by itself if a concrete pump is not needed. The washwater must be isposed of or treated and recycled in an evironmentally safe maanner and in accordance with federal, state

TARGETED POLLUTANTS

Caustic wastewater (high pH level near 12 units)
Suspended solids
Assorted Metals; Chromium VI, Nickel, Sulfate, Potassium, Magnesium and Calcium Compounds





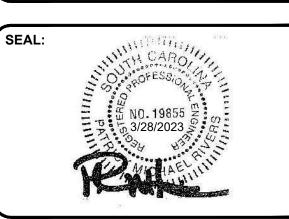


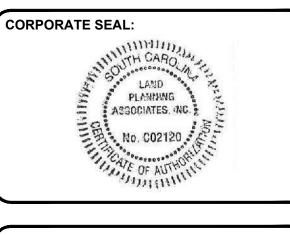
NO ENTRY SIGNAGE TO BE PRINTED BY CONTRACTOR IN COLOR AS SHOWN IN SPECIFICATIONS AND PROFESSIONALLY ONE SIGN TO BE PLACED ON EACH FENCE PANEL.

NO ENTRY SIGNAGE

WHEN PLOTTED AT FULL SIZE THIS SHEET MEASURES 22"x34"

REVISIONS: NO DATE DESCRIPTION

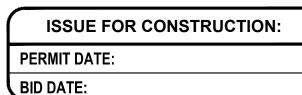






LAND PLANNING ASSOCIATES, INC. 110 WEST 1ST AVENUE - SUITE A **EASLEY, SC 29640** 864.242.6072 design@lpa-inc.net





STORMWATER

DRAWN BY: JTH **DESIGN BY: WWC/JTH CHECKED BY** DATE: 3/28/23 SCALE: JOB NUMBER: 23.006

EROSION CONTROL DETAILS

C-111

CUP- 4003483

— WEIGHTED FILTREXX® SOXX™ (8") OR APPROVED EQUAL