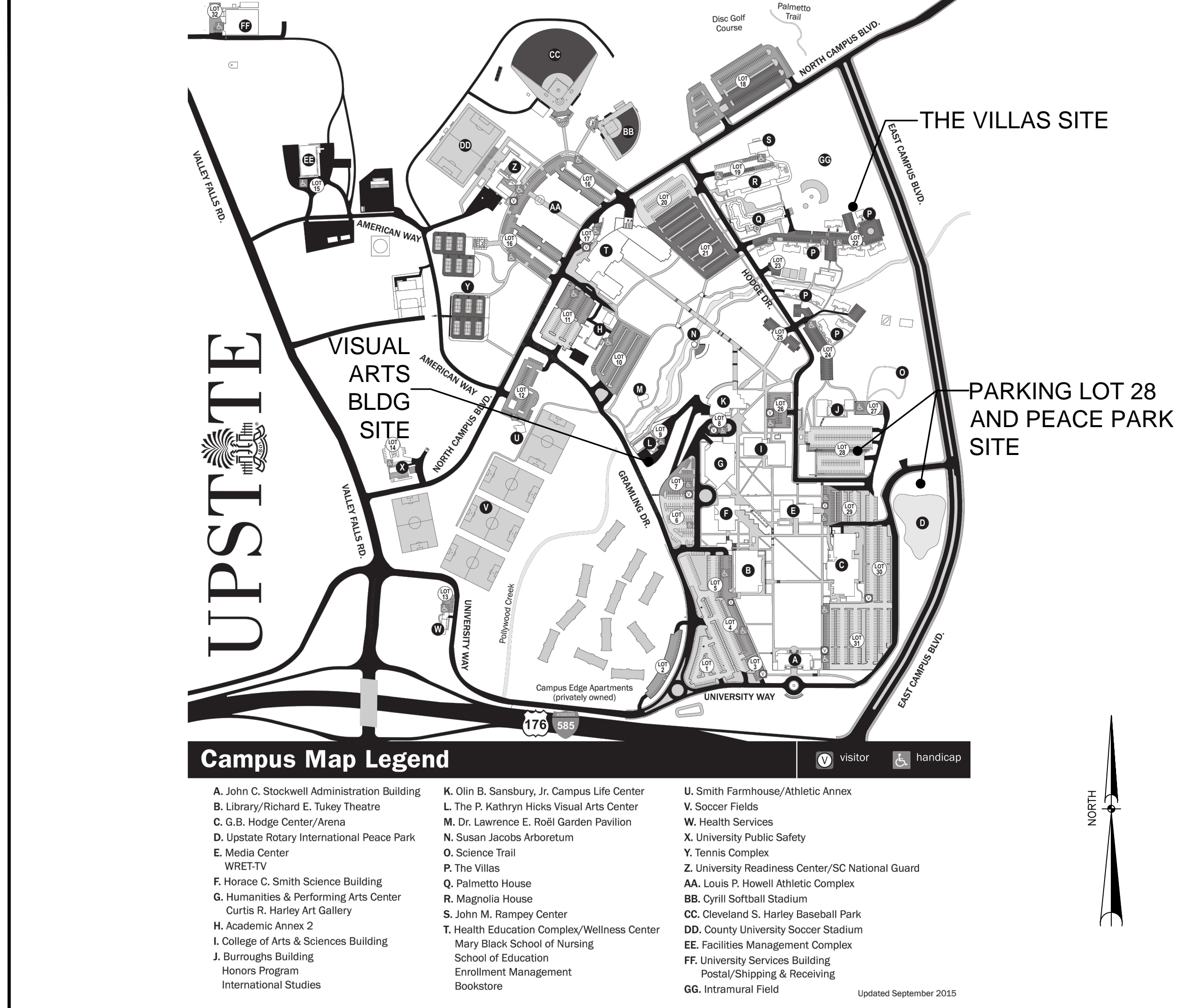




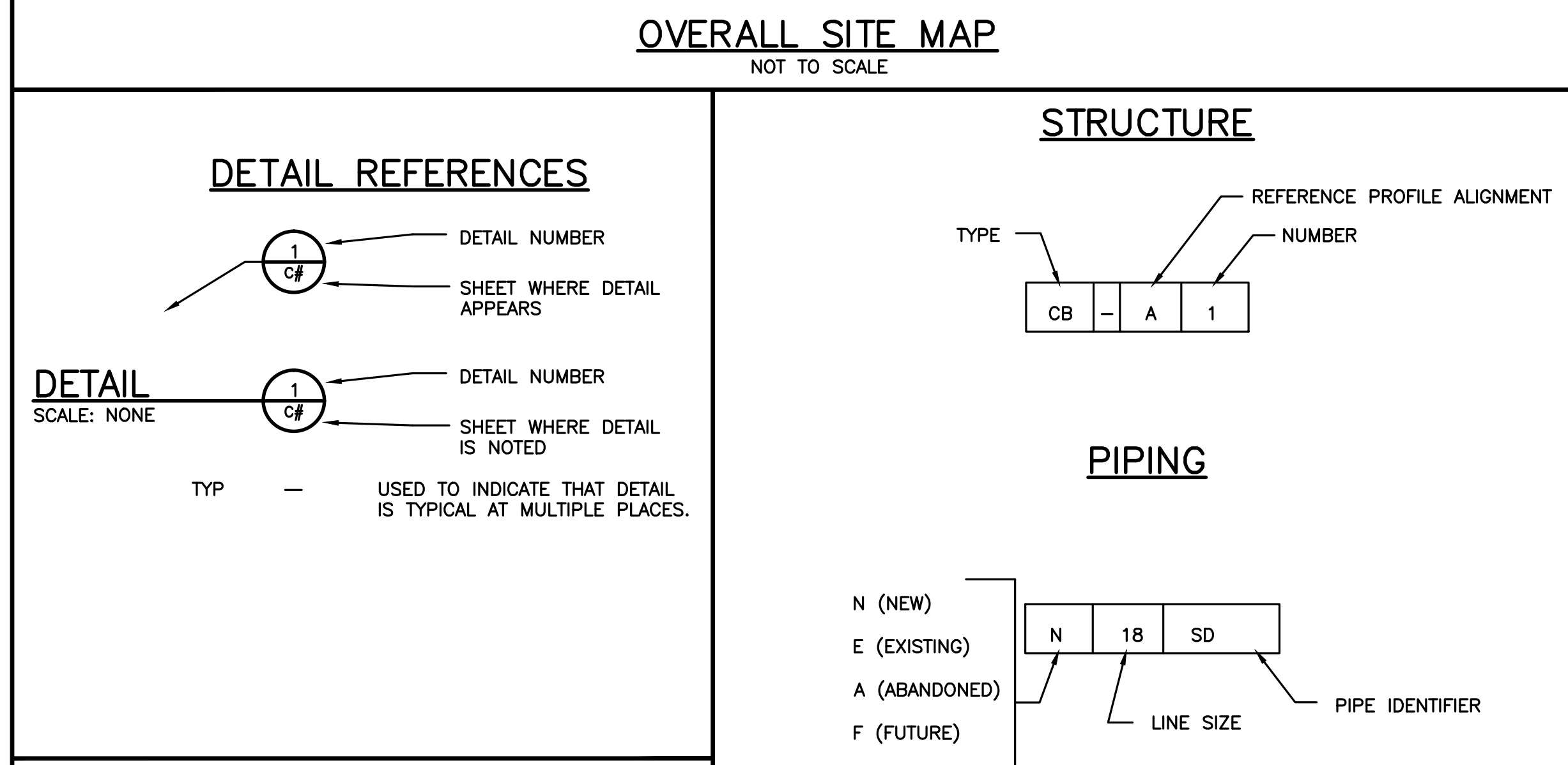
ARCHD 24" x 36" Approved: CCS Checked: CCS Designer: MDJ Drafter: MDJ Project Management Initials: Project Eng.: MDJ Last saved by: ANTHONY\_SELEF(016.08.08) Last Plotted: 2016.08.08 Filename: N:\PROJECTS\60495792\_USC UPSTATE STORM DRAINAGE\_REPAIR\900-WORK\10-DRAWINGS\SHEET\1 NOTES.DWG

ABBREVIATION WORD F. CONT. Table with multiple columns listing symbols and their corresponding terms. Includes categories like AGGR, APPROX, ASPH, AUTH, AVE, AZ, BASE LINE, BEARING, BENCH MARK, etc.



- GENERAL NOTES
1. REFERENCE IS MADE TO THE FOLLOWING:
A. BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED FOR USC UPSTATE BY BP BARBER, DATED NOVEMBER 24, 2009.
B. PARTIAL SITE SURVEY BY BP BARBER, DATED FEBRUARY 15, 2008.
C. BOUNDARY AND TOPOGRAPHICAL SURVEY PREPARED FOR USC UPSTATE BY URS CORPORATION, DATED MARCH 5, 2014.
D. USC UPSTATE STREET AND PARKING LOT MAINTENANCE AND REPAIRS PREPARED FOR USC UPSTATE BY URS CORPORATION, DATED JUNE 6, 2014 WITH REVISIONS.
E. BOUNDARY AND TOPOGRAPHICAL SURVEY PREPARED FOR USC UPSTATE BY URS CORPORATION, DATED APRIL 25, 2016.
2. ALL ELEVATIONS SHOWN ARE BASED ON:
HORIZONTAL: SOUTH CAROLINA STATE PLANE COORDINATE NAD 83
VERTICAL: NAVD 88
3. VERIFY ALL FIELD CONDITIONS AND THE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION. IF CONDITIONS ARE DIFFERENT FROM THAT SHOWN ON THE PLANS, STOP WORK AND NOTIFY THE ENGINEER.
4. ALL WORK FOR THE PROJECT SHALL CONFORM TO THE PROJECT SPECIFICATIONS FOUND IN THE PROJECT MANUAL (CONTRACT DOCUMENTS AND SPECIFICATIONS).
5. PROMPTLY INFORM THE ENGINEER OF ANY ERROR OR DISCREPANCY DISCOVERED IN THESE DRAWINGS OR SPECIFICATIONS OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS.
6. ALL EXCESS TOPSOIL FROM THE PROJECT SITES SHALL BE THE PROPERTY OF THE OWNER AND SHALL BE PLACED AT A LOCATION ON CAMPUS DETERMINED BY THE OWNER.

LEGEND
EXISTING NEW
CONTOURS (1' & 2') 836 836
CONTOURS (5' & 10') 835 835
EDGE OF PAVEMENT
CURB & GUTTER
CENTERLINE OF ROADWAY
PROPERTY LINE
RIGHT-OF-WAY
LIMITS OF WORK
ITEMS TO BE DEMOLISHED
TREE PROTECTION
TREE
SILT FENCE
WETLANDS
WETLANDS BUFFER
FENCE LINE
GUARD RAIL
TREE LINE
SURFACE DRAINAGE FLOW
STORM DRAINAGE
CATCH BASIN
DROP INLET
YARD INLET
JUNCTION BOX
SANITARY SEWER
SEWER FORCE MAIN
SEWER MANHOLE
SEWER VALVE
AIR RELEASE MANHOLE
SEWER CLEANOUT
WATER LINE
FIRE HYDRANT
WATER METER
WATER VALVE
GAS LINE
GAS VALVE
UNDERGROUND ELECTRIC
OVERHEAD POWER
SIGN
POWER POLE
GUY WIRE
GUY POLE
LAMP POLE
SERVICE POLE
LIGHT POLE
ELECTRIC MANHOLE
ELECTRIC TRANSFORMER
ELECTRIC BOX
UNDERGROUND TELEPHONE
TELEPHONE PEDESTAL
TELEPHONE MANHOLE
UNDERGRD. CABLE TV
CABLE TV PEDESTAL
MAIL BOX
UNDERGRD. FIBER OPTIC LINE



MATERIALS
NEW ASPHALT PAVEMENT
CONCRETE
EXISTING GRADE
FINISHED GRADE
GRANULAR FILL (ROCK/GRAVEL)
RIP RAP
IDENTIFIER DESCRIPTION
DB DUCT BANK
DRN DRAIN
FM FORCEMAIN
G GAS
SD STORM DRAIN
S SANITARY SEWER
W WATER

CONTRACTOR TO PROVIDE ON-SITE RESTROOM FACILITY AT A LOCATION DEEMED ACCEPTABLE BY THE OWNER.

STATE PROJECT NO. H34-9546

BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM logo and project information: PROJECT Storm Drainage Repairs University of South Carolina Upstate Campus Spartanburg, SC; CLIENT University of South Carolina Upstate; CONSULTANT AECOM; REGISTRATION SOUTH CAROLINA PROFESSIONAL ENGINEER; ISSUE/REVISION table; KEY PLAN; PROJECT & FILE NUMBER; SHEET TITLE GENERAL NOTES, LEGEND, SYMBOLS, & ABBREVIATIONS; SHEET NUMBER.

ARCH D 24" x 36"   
 Approved: CCS   
 Checked: CCS   
 Drafter: MDJ   
 Designer: MDJ   
 Project Management Initials: Project Eng.: MDJ   
 REPAIR 3000-VORKR010-DRAWINGS-SHEET S2-S4-EXISTING CONDITIONS.DWG   
 Last saved by: ANTHONY\_SELEF(2016.08.08)   
 Last Printed: 2016.08.08   
 Filename: N:\PROJECTS\60495792\_USC UPSTATE STORM DRAINAGE

### PROJECT

Storm Drainage Repairs  
 University of South  
 Carolina Upstate Campus  
 Spartanburg, SC

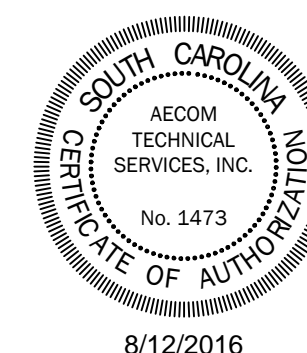
### CLIENT

University of South  
 Carolina Upstate  
 800 University Way  
 Spartanburg, SC 29303

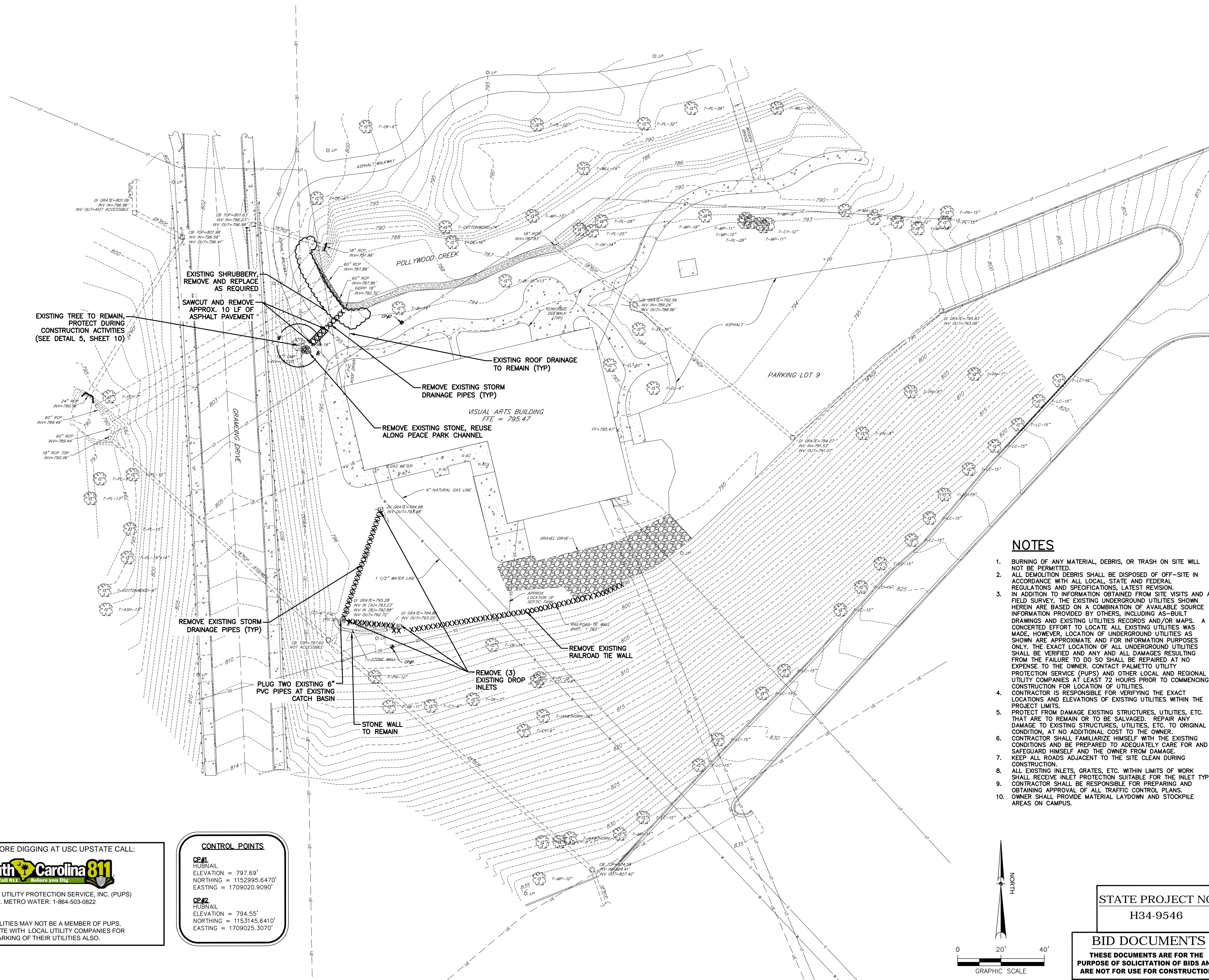
### CONSULTANT

AECOM  
 101 Research Drive,  
 Columbia, SC 29203  
 803.254.4400 tel 803.771.6676 fax  
 www.aecom.com

### REGISTRATION



*Stephen Charles*



**EXISTING SHRUBBERY, REMOVE AND REPLACE AS REQUIRED**  
**SAWCUT AND REMOVE APPROX. 10 LF OF ASPHALT PAVEMENT**  
**EXISTING TREE TO REMAIN, PROTECT DURING CONSTRUCTION ACTIVITIES (SEE DETAIL 5, SHEET 10)**  
**EXISTING ROOF DRAINAGE TO REMAIN (TYP)**  
**REMOVE EXISTING STORM DRAINAGE PIPES (TYP)**  
**REMOVE EXISTING STONE, REUSE ALONG PEACE PARK CHANNEL**  
**REMOVE EXISTING STORM DRAINAGE PIPES (TYP)**  
**REMOVE (3) EXISTING DROP INLETS**  
**REMOVE EXISTING RAILROAD TIE WALL**  
**PLUG TWO EXISTING 6" PVC PIPES AT EXISTING CATCH BASIN**  
**STONE WALL TO REMAIN**  
**REMOVE EXISTING STORM DRAINAGE PIPES (TYP)**

### NOTES

- BURNING OF ANY MATERIAL, DEBRIS, OR TRASH ON SITE WILL NOT BE PERMITTED.
- ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AND SPECIFICATIONS, LATEST REVISION.
- IN ADDITION TO INFORMATION OBTAINED FROM SITE VISITS AND A FIELD SURVEY, THE EXISTING UNDERGROUND UTILITIES SHOWN HEREIN ARE BASED ON A COMBINATION OF AVAILABLE SOURCE INFORMATION PROVIDED BY OTHERS, INCLUDING AS-BUILT DRAWINGS AND EXISTING UTILITIES RECORDS AND/OR MAPS. A CONCERTED EFFORT TO LOCATE ALL EXISTING UTILITIES WAS MADE, HOWEVER, LOCATION OF UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED AND ANY AND ALL DAMAGES RESULTING FROM THE FAILURE TO DO SO SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER. CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND OTHER LOCAL AND REGIONAL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION FOR LOCATION OF UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
- PROTECT FROM DAMAGE EXISTING STRUCTURES, UTILITIES, ETC. THAT ARE TO REMAIN OR TO BE SALVAGED. REPAIR ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, ETC. TO ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BE PREPARED TO ADEQUATELY CARE FOR AND SAFEGUARD HIMSELF AND THE OWNER FROM DAMAGE.
- KEEP ALL ROADS ADJACENT TO THE SITE CLEAN DURING CONSTRUCTION.
- ALL EXISTING INLETS, GRATES, ETC. WITHIN LIMITS OF WORK SHALL RECEIVE INLET PROTECTION SUITABLE FOR THE INLET TYPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING APPROVAL OF ALL TRAFFIC CONTROL PLANS.
- OWNER SHALL PROVIDE MATERIAL LAYDOWN AND STOCKPILE AREAS ON CAMPUS.

### ISSUE/REVISION

IR	DATE	DESCRIPTION

### KEY PLAN

SHEET SCALE: AS SHOWN

### PROJECT & FILE NUMBER

PROJECT NUMBER: 60495792  
 FILE NUMBER: 36799-B93

### SHEET TITLE

EXISTING CONDITIONS  
 AND DEMO PLAN - VISUAL  
 ARTS BUILDING

### SHEET NUMBER

2

3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:

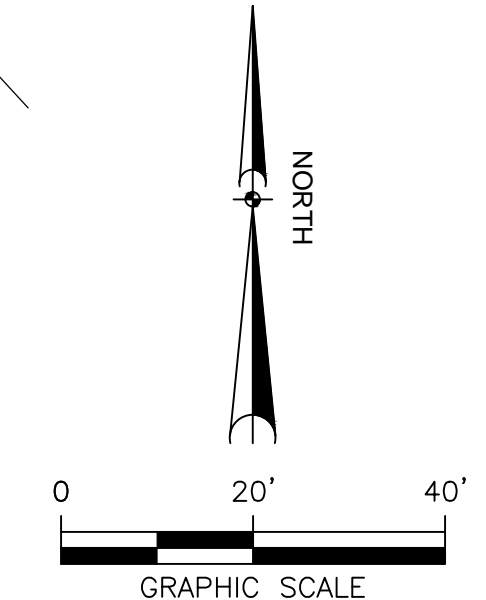
1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)  
 2. METRO WATER: 1-864-503-0822

ALL UTILITIES MAY NOT BE A MEMBER OF PUPS, COORDINATE WITH LOCAL UTILITY COMPANIES FOR MARKING OF THEIR UTILITIES ALSO.

#### CONTROL POINTS

**CP #1**  
 HUBNAIL  
 ELEVATION = 797.69'  
 NORTHING = 1152995.6470'  
 EASTING = 1709020.9090'

**CP #2**  
 HUBNAIL  
 ELEVATION = 794.55'  
 NORTHING = 1153145.6410'  
 EASTING = 1709025.3070'



**STATE PROJECT NO.**  
 H34-9546

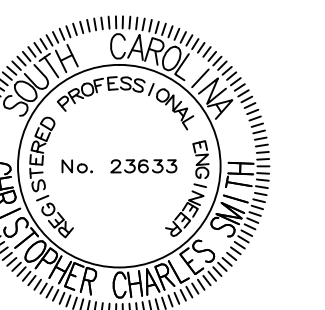
**BID DOCUMENTS**  
**THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION**

PROJECT  
Storm Drainage Repairs  
University of South  
Carolina Upstate Campus  
Spartanburg, SC

CLIENT  
University of South  
Carolina Upstate  
800 University Way  
Spartanburg, SC 29303

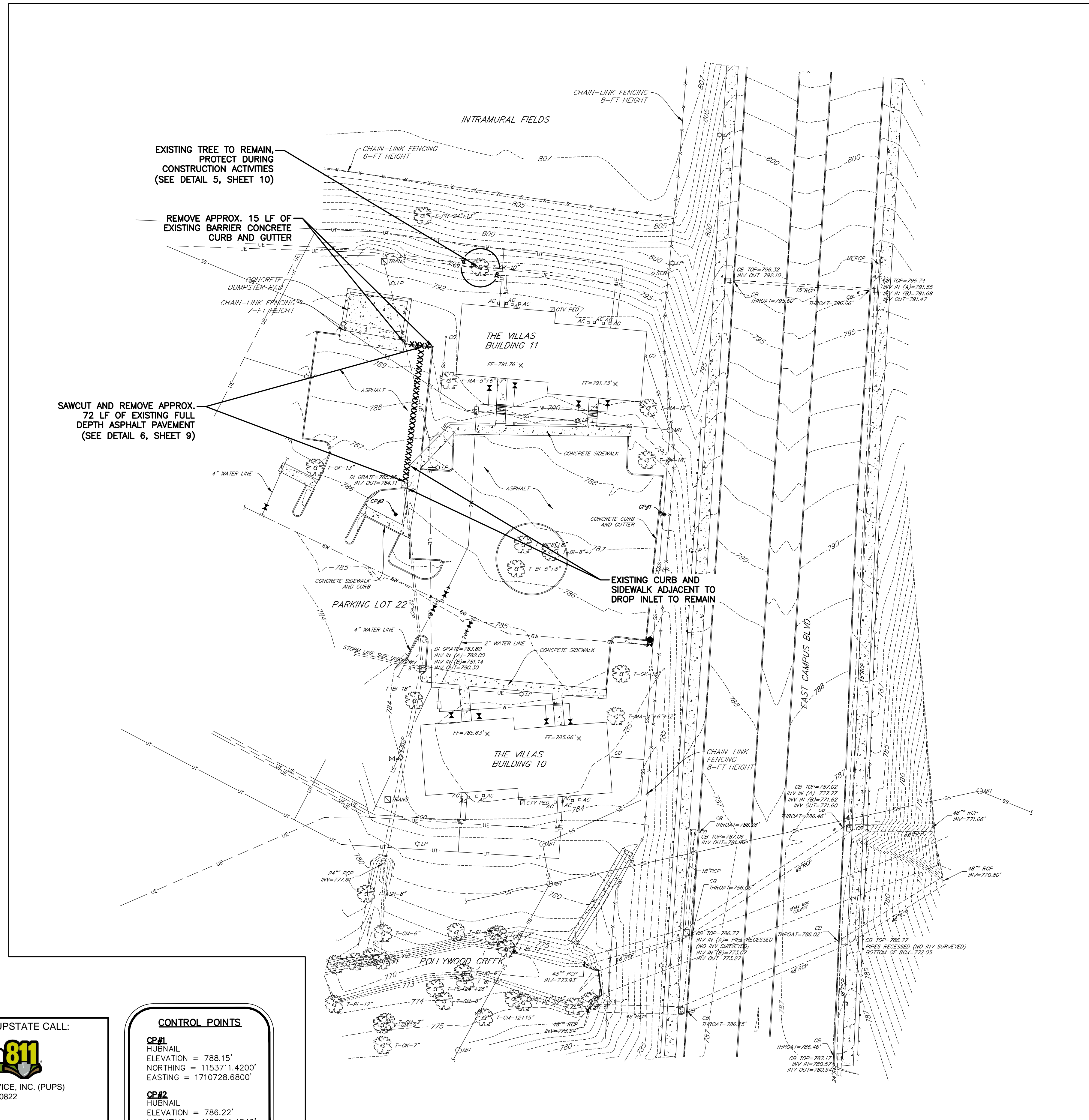
CONSULTANT  
AECOM  
101 Research Drive,  
Columbia, SC 29203  
803.254.4400 tel 803.771.6676 fax  
www.aecom.com

REGISTRATION



NOTES

- BURNING OF ANY MATERIAL, DEBRIS, OR TRASH ON SITE WILL NOT BE PERMITTED.
- ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AND SPECIFICATIONS, LATEST REVISION.
- IN ADDITION TO INFORMATION OBTAINED FROM SITE VISITS AND A FIELD SURVEY, THE EXISTING UNDERGROUND UTILITIES SHOWN HEREIN ARE BASED ON A COMBINATION OF AVAILABLE SOURCE INFORMATION PROVIDED BY OTHERS, INCLUDING AS-BUILT DRAWINGS AND EXISTING UTILITIES RECORDS AND/OR MAPS. A CONCERTED EFFORT TO LOCATE ALL EXISTING UTILITIES WAS MADE, HOWEVER, LOCATION OF UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED AND ANY AND ALL DAMAGES RESULTING FROM THE FAILURE TO DO SO SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER. CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND OTHER LOCAL AND REGIONAL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION FOR LOCATION OF UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
- PROTECT FROM DAMAGE EXISTING STRUCTURES, UTILITIES, ETC. THAT ARE TO REMAIN OR TO BE SALVAGED. REPAIR ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, ETC. TO ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BE PREPARED TO ADEQUATELY CARE FOR AND SAFEGUARD HIMSELF AND THE OWNER FROM DAMAGE.
- KEEP ALL ROADS ADJACENT TO THE SITE CLEAN DURING CONSTRUCTION.
- ALL EXISTING INLETS, GRATES, ETC. WITHIN LIMITS OF WORK SHALL RECEIVE INLET PROTECTION SUITABLE FOR THE INLET TYPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING APPROVAL OF ALL TRAFFIC CONTROL PLANS.
- OWNER SHALL PROVIDE MATERIAL LAYDOWN AND STOCKPILE AREAS ON CAMPUS.



EXISTING TREE TO REMAIN, PROTECT DURING CONSTRUCTION ACTIVITIES (SEE DETAIL 5, SHEET 10)


REMOVE APPROX. 15 LF OF EXISTING BARRIER CONCRETE CURB AND GUTTER

SAWCUT AND REMOVE APPROX. 72 LF OF EXISTING FULL DEPTH ASPHALT PAVEMENT (SEE DETAIL 6, SHEET 9)

EXISTING CURB AND SIDEWALK ADJACENT TO DROP INLET TO REMAIN

BID ALTERNATE #1

3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:



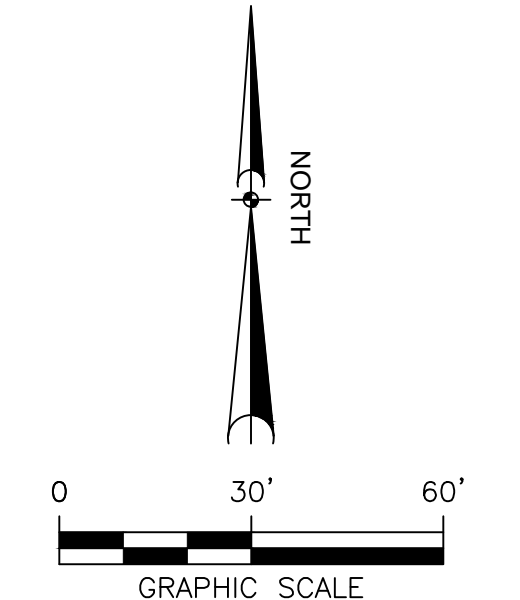
1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)  
2. METRO WATER: 1-864-503-0822

ALL UTILITIES MAY NOT BE A MEMBER OF PUPS. COORDINATE WITH LOCAL UTILITY COMPANIES FOR MARKING OF THEIR UTILITIES ALSO.

**CONTROL POINTS**

**CP#1**  
HUBNAIL ELEVATION = 788.15'  
NORTHING = 1153711.4200'  
EASTING = 1710728.6800'

**CP#2**  
HUBNAIL ELEVATION = 786.22'  
NORTHING = 1153711.4840'  
EASTING = 1710588.9510'



STATE PROJECT NO.  
H34-9546

**BID DOCUMENTS**  
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

IR	DATE	DESCRIPTION
	2016-08-12	BID DRAWINGS

KEY PLAN  
SHEET SCALE: AS SHOWN

PROJECT & FILE NUMBER  
PROJECT NUMBER: 60495792  
FILE NUMBER: 36799-B93

SHEET TITLE  
EXISTING CONDITIONS AND DEMO PLAN - THE VILLAS

SHEET NUMBER

ARCH D 24' x 36'

Approved: CCS

Checked: CCS

Drafter: MDU

Designer: MDU

Project Management Initials: Project Eng.: MDU

DWG

REPAIR900-WORK10-DRAWINGS/ST-2/SS-2-4 EXISTING CONDITIONS

REPAIR900-WORK10-DRAWINGS/ST-2/SS-2-4 EXISTING CONDITIONS

REPAIR900-WORK10-DRAWINGS/ST-2/SS-2-4 EXISTING CONDITIONS

REPAIR900-WORK10-DRAWINGS/ST-2/SS-2-4 EXISTING CONDITIONS

REPAIR900-WORK10-DRAWINGS/ST-2/SS-2-4 EXISTING CONDITIONS

### NOTES

1. BURNING OF ANY MATERIAL, DEBRIS, OR TRASH ON SITE WILL NOT BE PERMITTED.
2. ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AND SPECIFICATIONS, LATEST REVISION.
3. IN ADDITION TO INFORMATION OBTAINED FROM SITE VISITS AND A FIELD SURVEY, THE EXISTING UNDERGROUND UTILITIES SHOWN HEREIN ARE BASED ON A COMBINATION OF AVAILABLE SOURCE INFORMATION PROVIDED BY OTHERS, INCLUDING AS-BUILT DRAWINGS AND EXISTING UTILITIES RECORDS AND/OR MAPS. A CONCERTED EFFORT TO LOCATE ALL EXISTING UTILITIES WAS MADE, HOWEVER, LOCATION OF UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED AND ANY AND ALL DAMAGES RESULTING FROM THE FAILURE TO DO SO SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER. CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND OTHER LOCAL AND REGIONAL UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION FOR LOCATION OF UTILITIES.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS.
5. PROTECT FROM DAMAGE EXISTING STRUCTURES, UTILITIES, ETC. THAT ARE TO REMAIN OR TO BE SALVAGED. REPAIR ANY DAMAGE TO EXISTING STRUCTURES, UTILITIES, ETC. TO ORIGINAL CONDITION, AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BE PREPARED TO ADEQUATELY CARE FOR AND SAFEGUARD HIMSELF AND THE OWNER FROM DAMAGE.
7. KEEP ALL ROADS ADJACENT TO THE SITE CLEAN DURING CONSTRUCTION.
8. ALL EXISTING INLETS, GRATES, ETC. WITHIN LIMITS OF WORK SHALL RECEIVE INLET PROTECTION SUITABLE FOR THE INLET TYPE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING APPROVAL OF ALL TRAFFIC CONTROL PLANS.
10. OWNER SHALL PROVIDE MATERIAL LAYDOWN AND STOCKPILE AREAS ON CAMPUS.



**PROJECT**  
Storm Drainage Repairs  
University of South  
Carolina Upstate Campus  
Spartanburg, SC

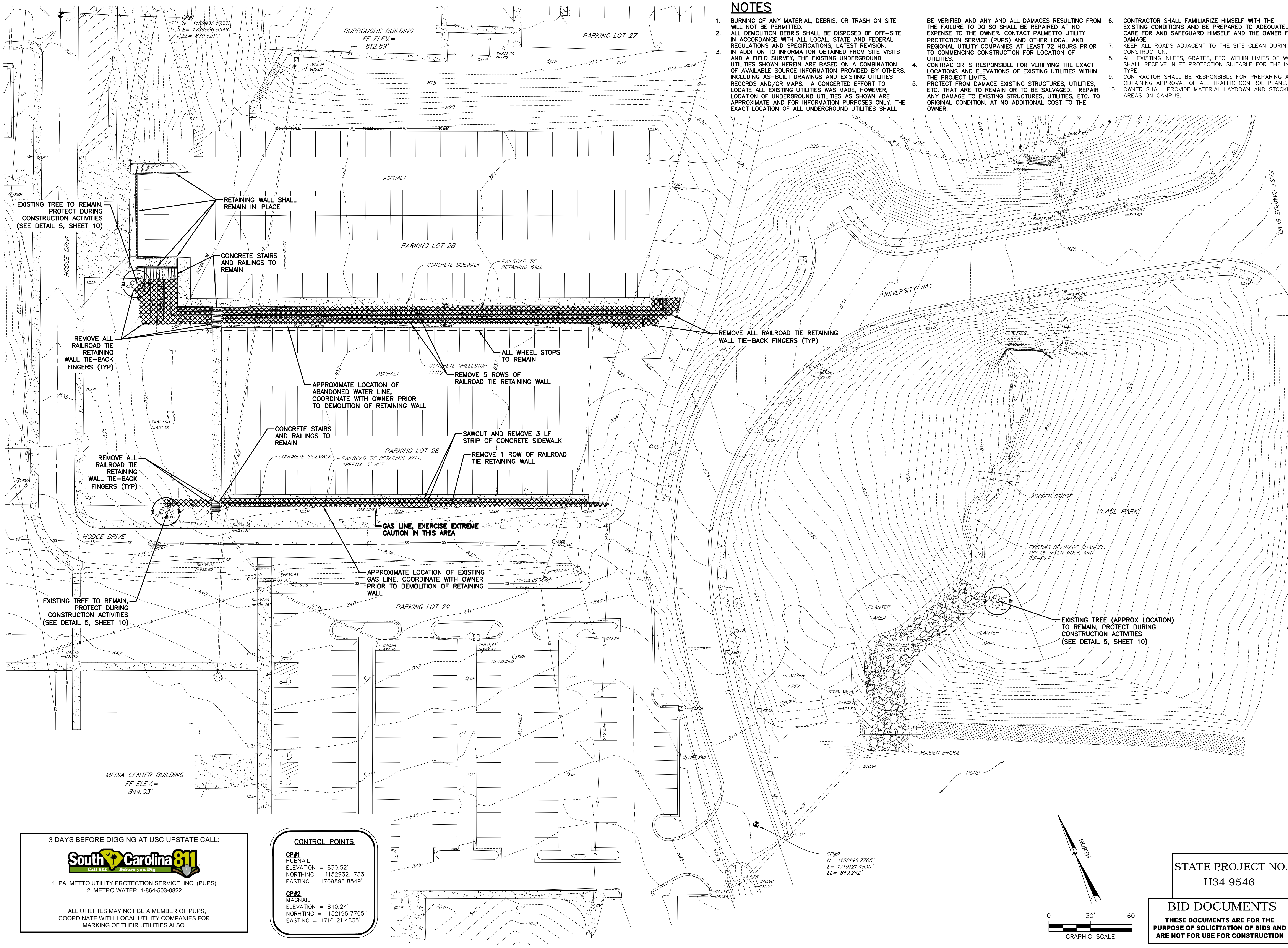
**CLIENT**  
University of South  
Carolina Upstate  
800 University Way  
Spartanburg, SC 29303

**CONSULTANT**  
AECOM  
101 Research Drive,  
Columbia, SC 29203  
803.254.4400 tel 803.771.6676 fax  
www.aecom.com

**REGISTRATION**



Signature



**3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:**

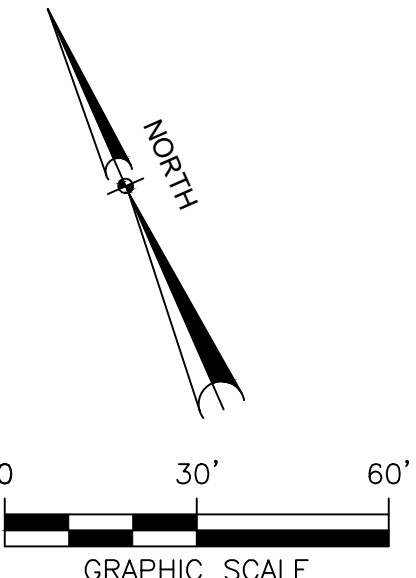
1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)  
2. METRO WATER: 1-864-503-0822

ALL UTILITIES MAY NOT BE A MEMBER OF PUPS.  
COORDINATE WITH LOCAL UTILITY COMPANIES FOR  
MARKING OF THEIR UTILITIES ALSO.

**CONTROL POINTS**

CP#1  
HUBNAIL  
ELEVATION = 830.52'  
NORTHING = 1152932.1733'  
EASTING = 1709896.8549'

CP#2  
MAGNAIL  
ELEVATION = 840.24'  
NORTHING = 1152195.7705'  
EASTING = 1710121.4835'



**STATE PROJECT NO.**  
H34-9546

**BID DOCUMENTS**  
THESE DOCUMENTS ARE FOR THE  
PURPOSE OF SOLICITATION OF BIDS AND  
ARE NOT FOR USE FOR CONSTRUCTION

**ISSUE/REVISION**

IR	DATE	DESCRIPTION
2016-08-12	BID DRAWINGS	

**KEY PLAN**  
SHEET SCALE: AS SHOWN

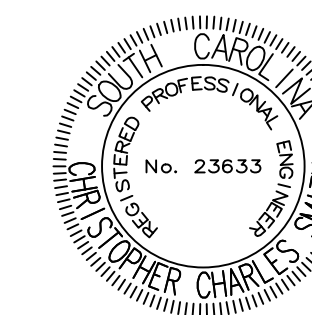
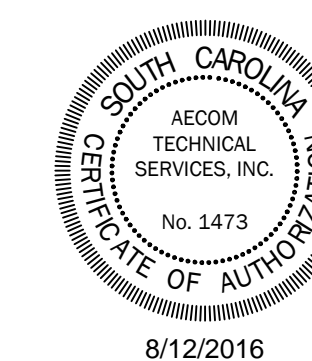
**PROJECT & FILE NUMBER**  
PROJECT NUMBER: 60495792  
FILE NUMBER: 36799-B93

**SHEET TITLE**  
EXISTING CONDITIONS  
AND DEMO PLAN - PARKING  
LOT 28 & PEACE PARK

**SHEET NUMBER**

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability, whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

ARCH D 24' x 36' Approved: CCS Checked: CCS Drafter: MDJ Designer: MDJ Project Management Initials: Project Eng.: MDJ

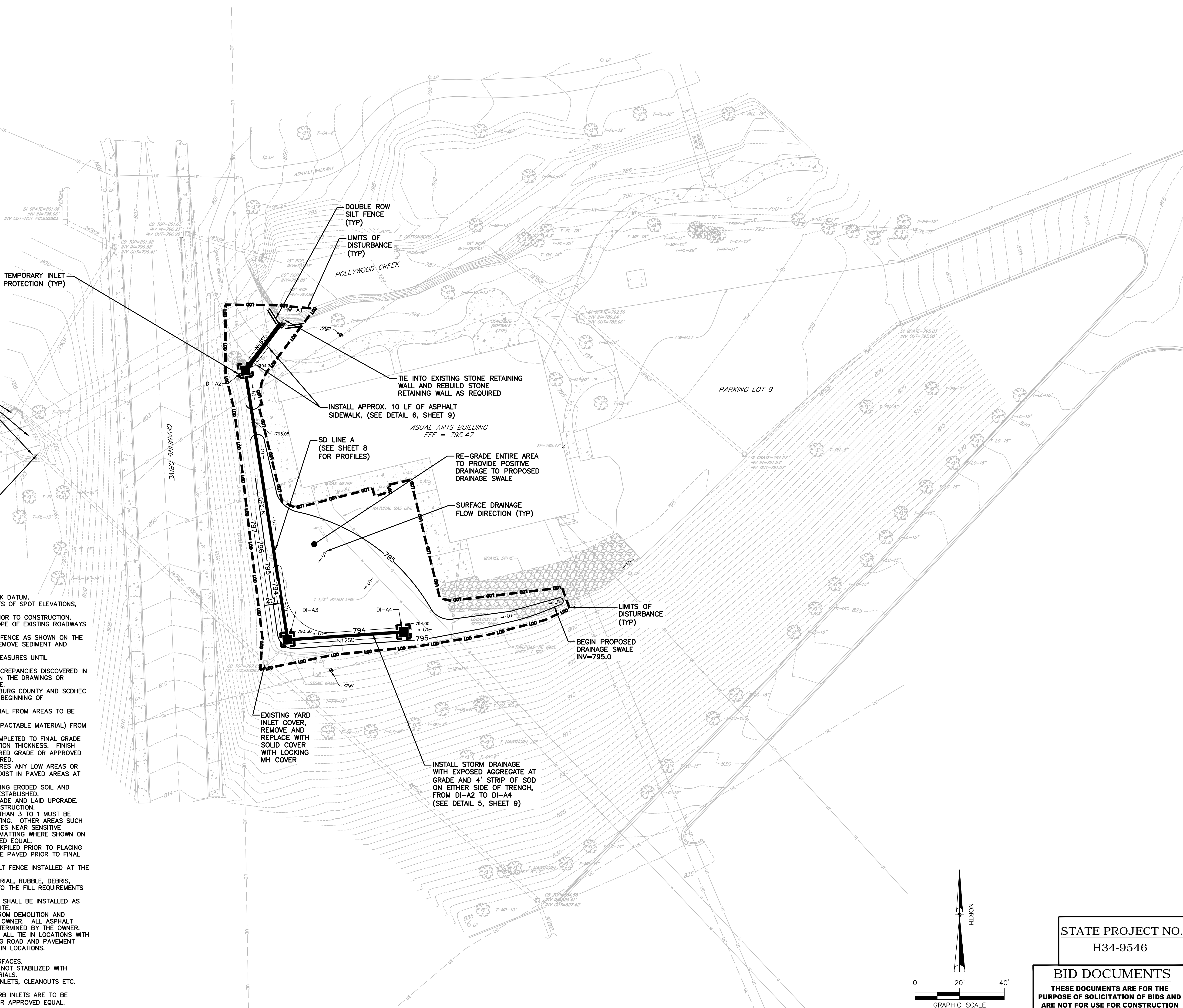


*Charles C. [Signature]*

IR	DATE	DESCRIPTION
2016-08-12	BID DRAWINGS	

SHEET SCALE: AS SHOWN

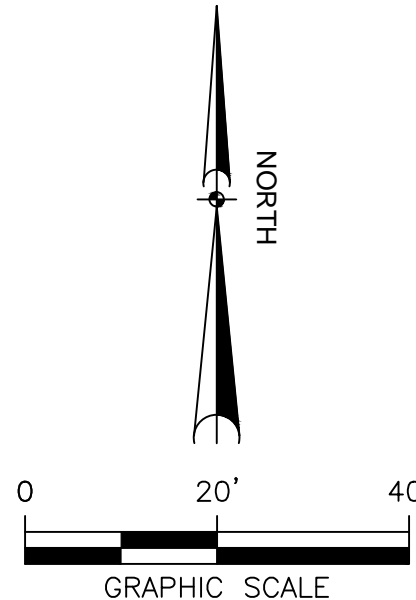
PROJECT NUMBER: 60495792  
 FILE NUMBER: 36799-B93



DOUBLE ROW SILT FENCE (TYP)  
 LIMITS OF DISTURBANCE (TYP)  
 POLLYWOOD CREEK  
 TIE INTO EXISTING STONE RETAINING WALL AND REBUILD STONE RETAINING WALL AS REQUIRED  
 INSTALL APPROX. 10 LF OF ASPHALT SIDEWALK, (SEE DETAIL 6, SHEET 9)  
 VISUAL ARTS BUILDING  
 FFE = 795.47  
 SD LINE A (SEE SHEET 8 FOR PROFILES)  
 RE-GRADE ENTIRE AREA TO PROVIDE POSITIVE DRAINAGE TO PROPOSED DRAINAGE SWALE  
 SURFACE DRAINAGE FLOW DIRECTION (TYP)  
 LIMITS OF DISTURBANCE (TYP)  
 BEGIN PROPOSED DRAINAGE SWALE  
 INV=795.0  
 INSTALL STORM DRAINAGE WITH EXPOSED AGGREGATE AT GRADE AND 4' STRIP OF SOD ON EITHER SIDE OF TRENCH, FROM DI-A2 TO DI-A4 (SEE DETAIL 5, SHEET 9)  
 EXISTING YARD INLET COVER, REMOVE AND REPLACE WITH SOLID COVER WITH LOCKING MH COVER  
 CLEAN DEBRIS OUT FROM CREEK, DISPOSE DEBRIS OFF-SITE  
 DAYLIGHT EXISTING STORM DRAINAGE PIPE TO ENSURE POSITIVE OUTFALL DRAINAGE  
 TEMPORARY INLET PROTECTION (TYP)

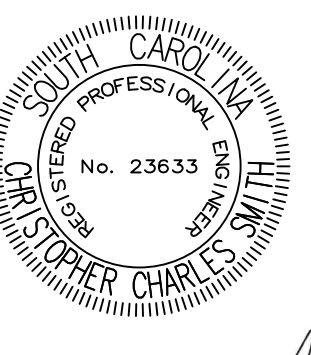
**NOTES**

- ALL ELEVATIONS ARE BASED ON REFERENCED BENCHMARK DATUM.
- WHEN GRADING BETWEEN CONTOURS AND BETWEEN POINTS OF SPOT ELEVATIONS, GRADE ON A UNIFORM SLOPE.
- CONTRACTOR TO FIELD VERIFY EXISTING SITE GRADES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAINTAIN CROSS SECTIONS AND SLOPE OF EXISTING ROADWAYS AND PARKING LOT AREAS.
- BEFORE BEGINNING GRADING WORK ON SITE, STAKE SILT FENCE AS SHOWN ON THE PLANS. AS SEDIMENT BUILDS UP AROUND SILT FENCE, REMOVE SEDIMENT AND REPLACE WHERE EROSION HAS TAKEN PLACE.
- INSTALL AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL STABILIZATION IS ACHIEVED.
- PROMPTLY INFORM THE ENGINEER OF ANY ERROR OR DISCREPANCIES DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS IN ORDER FOR CORRECTIONS TO BE MADE.
- ALL WORK AND MATERIALS MUST CONFORM TO SPARTANBURG COUNTY AND SCDHEC REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
- CLEAR ALL BRUSH, STUMPS AND OTHER ORGANIC MATERIAL FROM AREAS TO BE FILLED.
- REMOVE ALL UNSUITABLE MATERIAL (MUCK OR NON-COMPACTABLE MATERIAL) FROM AREAS TO BE FILLED AS DETERMINED BY ENGINEER.
- GRADE BENEATH ROADWAYS AND PARKING SHALL BE COMPLETED TO FINAL GRADE AS SHOWN ON THE DRAWINGS LESS THE PAVEMENT SECTION THICKNESS. FINISH SURFACES TO WITHIN 0.10' ABOVE OR BELOW THE REQUIRED GRADE OR APPROVED CROSS SECTION FOR THE REMAINDER OF THE SITE REQUIRED.
- REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ANY LOW AREAS OR "BIRD BATHS" AS DETERMINED BY THE ENGINEER THAT EXIST IN PAVED AREAS AT NO ADDITIONAL COST TO THE OWNER.
- FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.
- EACH SECTION OF PIPE SHALL BE LAID TO SPECIFIED GRADE AND LAID UPGRADE.
- KEEP ALL ROADS ADJACENT TO SITE CLEAN DURING CONSTRUCTION.
- ALL NEWLY CONSTRUCTED SLOPES WHICH ARE STEEPER THAN 3 TO 1 MUST BE STABILIZED BY INSTALLATION OF EROSION CONTROL MATTING. OTHER AREAS SUCH AS CHANNEL BOTTOMS, CHANNEL SIDESLOPES, AND SLOPES NEAR SENSITIVE WETLAND AREAS MAY ALSO REQUIRE EROSION CONTROL MATTING WHERE SHOWN ON PLANS. USE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL.
- ALL VEGETATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED PRIOR TO PLACING FILL. TOPSOIL SHALL BE SPREAD OVER AREAS NOT TO BE PAVED PRIOR TO FINAL GRASSING.
- ANY TEMPORARY STOCKPILES SHALL HAVE PERIMETER SILT FENCE INSTALLED AT THE BASE OF THE STOCKPILE.
- PROPOSED FILL SOILS SHALL BE FREE OF ORGANIC MATERIAL, RUBBLE, DEBRIS, HIGHLY PLASTIC CLAYS AND SILTS AND SHALL ADHERE TO THE FILL REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- REMOVE ALL DEBRIS AND OTHER MATERIAL RESULTING FROM DEMOLITION AND DISPOSE OF OFF SITE UNLESS OTHERWISE APPROVED BY OWNER. ALL ASPHALT MILLINGS SHALL REMAIN ON CAMPUS AT A LOCATION DETERMINED BY THE OWNER.
- CONTRACTOR SHALL FIELD VERIFY EXACT ELEVATIONS AT ALL TIE IN LOCATIONS WITH EXISTING FINISHED SURFACES AND SHALL MATCH EXISTING ROAD AND PAVEMENT GRADES AND ENSURE SMOOTH TRANSITION AT ROAD TIE IN LOCATIONS.
- GRADES SHOWN ARE FINAL SURFACE ELEVATIONS.
- ENSURE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES.
- GRASSING SHALL BE APPLIED TO ALL DISTURBED AREAS NOT STABILIZED WITH ASPHALT, CONCRETE OR LANDSCAPED WITH PLANT MATERIALS.
- ALL UTILITY BOXES, MANHOLES, VALVES, METER BOXES, INLETS, CLEANOUTS ETC. SHALL BE FIELD ADJUSTED TO MATCH FINISHED GRADE.
- ALL YARD INLETS, CATCH BASINS, DROP INLETS AND CURB INLETS ARE TO BE STAMPED WITH "NO-DUMPING-DRAINS TO WATERWAY" OR APPROVED EQUAL.

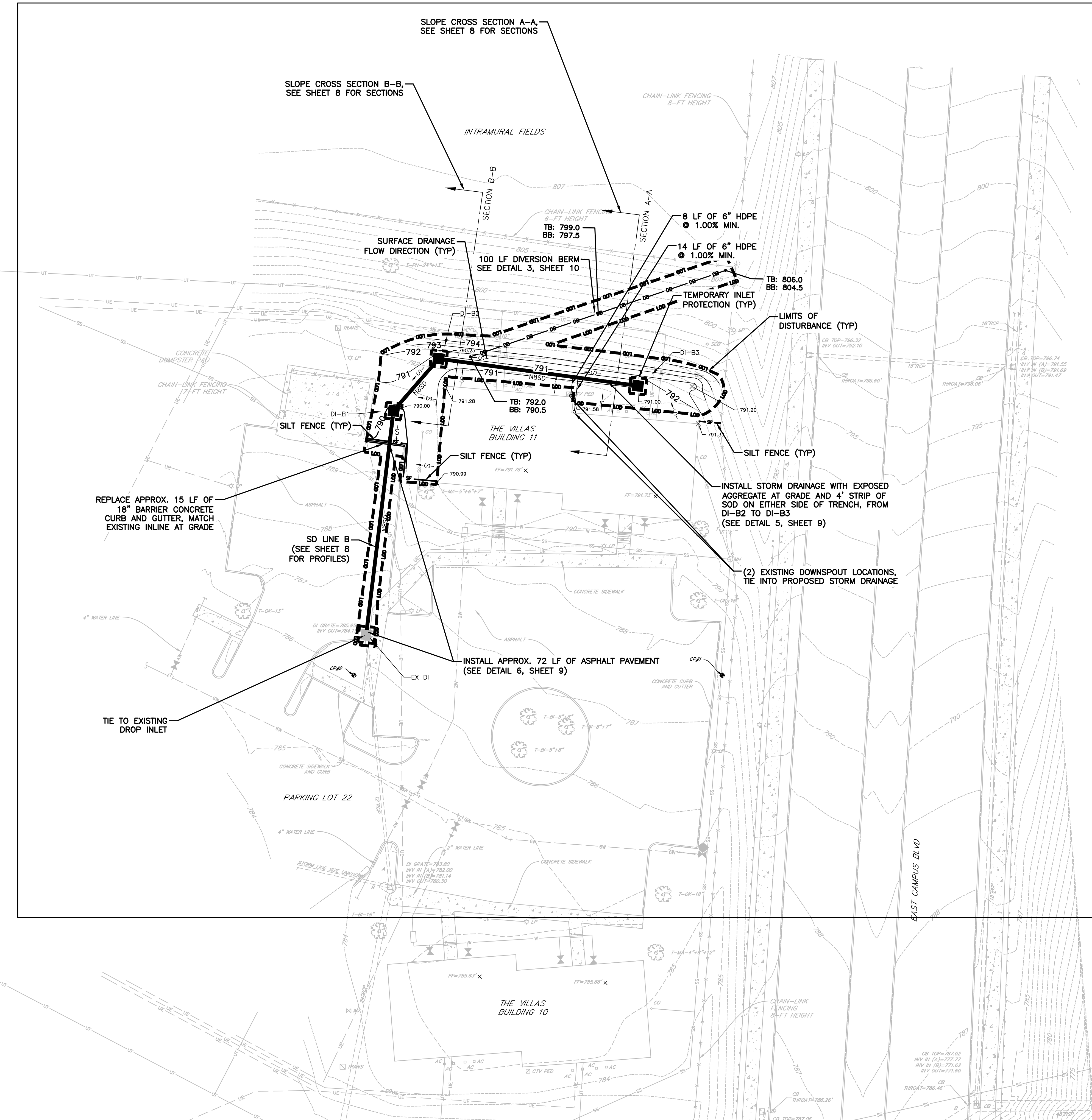


STATE PROJECT NO.  
 H34-9546  
**BID DOCUMENTS**  
 THESE DOCUMENTS ARE FOR THE  
 PURPOSE OF SOLICITATION OF BIDS AND  
 ARE NOT FOR USE FOR CONSTRUCTION

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability, whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.



Handwritten signature of Christopher J. Seay.



**BID ALTERNATE #1**

**NOTES**

- ALL ELEVATIONS ARE BASED ON REFERENCED BENCHMARK DATUM.
- WHEN GRADING BETWEEN CONTOURS AND BETWEEN POINTS OF SPOT ELEVATIONS, GRADE ON A UNIFORM SLOPE.
- CONTRACTOR TO FIELD VERIFY EXISTING SITE GRADES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAINTAIN CROSS SECTIONS AND SLOPE OF EXISTING ROADWAYS AND PARKING LOT AREAS.
- BEFORE BEGINNING GRADING WORK ON SITE, STAKE SILT FENCE AS SHOWN ON THE PLANS. AS SEDIMENT BUILDS UP AROUND SILT FENCE, REMOVE SEDIMENT AND REPLACE WHERE EROSION HAS TAKEN PLACE.
- INSTALL AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL STABILIZATION IS ACHIEVED.
- PROMPTLY INFORM THE ENGINEER OF ANY ERROR OR DISCREPANCIES DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS IN ORDER FOR CORRECTIONS TO BE MADE.
- ALL WORK AND MATERIALS MUST CONFORM TO SPARTANBURG COUNTY AND SCDHEC REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
- CLEAR ALL BRUSH, STUMPS AND OTHER ORGANIC MATERIAL FROM AREAS TO BE FILLED.
- REMOVE ALL UNSUITABLE MATERIAL (MUCK OR NON-COMPACTABLE MATERIAL) FROM AREAS TO BE FILLED AS DETERMINED BY ENGINEER.
- GRADE BENEATH ROADWAYS AND PARKING SHALL BE COMPLETED TO FINAL GRADE AS SHOWN ON THE DRAWINGS LESS THE PAVEMENT SECTION THICKNESS. FINISH SURFACES TO WITHIN 0.10' ABOVE OR BELOW THE REQUIRED GRADE OR APPROVED CROSS SECTION FOR THE REMAINDER OF THE SITE REQUIRED.
- REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ANY LOW AREAS OR "BIRD BATHS" AS DETERMINED BY THE ENGINEER THAT EXIST IN PAVED AREAS AT NO ADDITIONAL COST TO THE OWNER.
- FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.
- EACH SECTION OF PIPE SHALL BE LAID TO SPECIFIED GRADE AND LAID UPGRADE.
- KEEP ALL ROADS ADJACENT TO SITE CLEAN DURING CONSTRUCTION.
- ALL NEWLY CONSTRUCTED SLOPES WHICH ARE STEEPER THAN 3 TO 1 MUST BE STABILIZED BY INSTALLATION OF EROSION CONTROL MATTING. OTHER AREAS SUCH AS CHANNEL BOTTOMS, CHANNEL SIDESLOPES, AND SLOPES NEAR SENSITIVE WETLAND AREAS MAY ALSO REQUIRE EROSION CONTROL MATTING WHERE SHOWN ON PLANS. USE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL.
- ALL VEGETATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED PRIOR TO PLACING FILL. TOPSOIL SHALL BE SPREAD OVER AREAS NOT TO BE PAVED PRIOR TO FINAL GRASSING.
- ANY TEMPORARY STOCKPILES SHALL HAVE PERIMETER SILT FENCE INSTALLED AT THE BASE OF THE STOCKPILE.
- PROPOSED FILL SOILS SHALL BE FREE OF ORGANIC MATERIAL, RUBBLE, DEBRIS, HIGHLY PLASTIC CLAYS AND SILTS AND SHALL ADHERE TO THE FILL REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- REMOVE ALL DEBRIS AND OTHER MATERIAL RESULTING FROM DEMOLITION AND DISPOSE OF OFF SITE UNLESS OTHERWISE APPROVED BY OWNER. ALL ASPHALT MILLINGS SHALL REMAIN ON CAMPUS AT A LOCATION DETERMINED BY THE OWNER.
- CONTRACTOR SHALL FIELD VERIFY EXACT ELEVATIONS AT ALL TIE IN LOCATIONS WITH EXISTING FINISHED SURFACES AND SHALL MATCH EXISTING ROAD AND PAVEMENT GRADES AND ENSURE SMOOTH TRANSITION AT ROAD TIE IN LOCATIONS.
- GRADES SHOWN ARE FINAL SURFACE ELEVATIONS.
- ENSURE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES.
- GRASSING SHALL BE APPLIED TO ALL DISTURBED AREAS NOT STABILIZED WITH ASPHALT, CONCRETE OR LANDSCAPED WITH PLANT MATERIALS.
- ALL UTILITY BOXES, MANHOLES, VALVES, METER BOXES, INLETS, CLEANOUTS ETC. SHALL BE FIELD ADJUSTED TO MATCH FINISHED GRADE.
- ALL YARD INLETS, CATCH BASINS, DROP INLETS AND CURB INLETS ARE TO BE STAMPED WITH "NO-DUMPING-DRAINS TO WATERWAY" OR APPROVED EQUAL.

**ISSUE/REVISION**

IR	DATE	DESCRIPTION
2016-08-12	BID DRAWINGS	

**KEY PLAN**

SHEET SCALE: AS SHOWN

**PROJECT & FILE NUMBER**

PROJECT NUMBER: 60495792  
FILE NUMBER: 36799-B93

**SHEET TITLE**

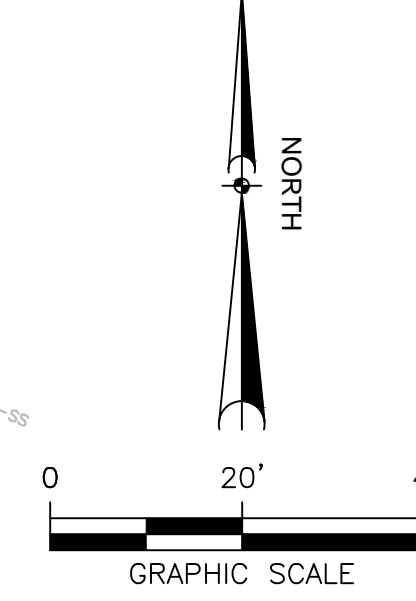
SITE IMPROVEMENT PLAN -  
THE VILLAS

**SHEET NUMBER**

6

**STATE PROJECT NO.**  
H34-9546

**BID DOCUMENTS**  
THESE DOCUMENTS ARE FOR THE  
PURPOSE OF SOLICITATION OF BIDS AND  
ARE NOT FOR USE FOR CONSTRUCTION





**PROJECT**  
 Storm Drainage Repairs  
 University of South  
 Carolina Upstate Campus  
 Spartanburg, SC

**CLIENT**  
 University of South  
 Carolina Upstate  
 800 University Way  
 Spartanburg, SC 29303

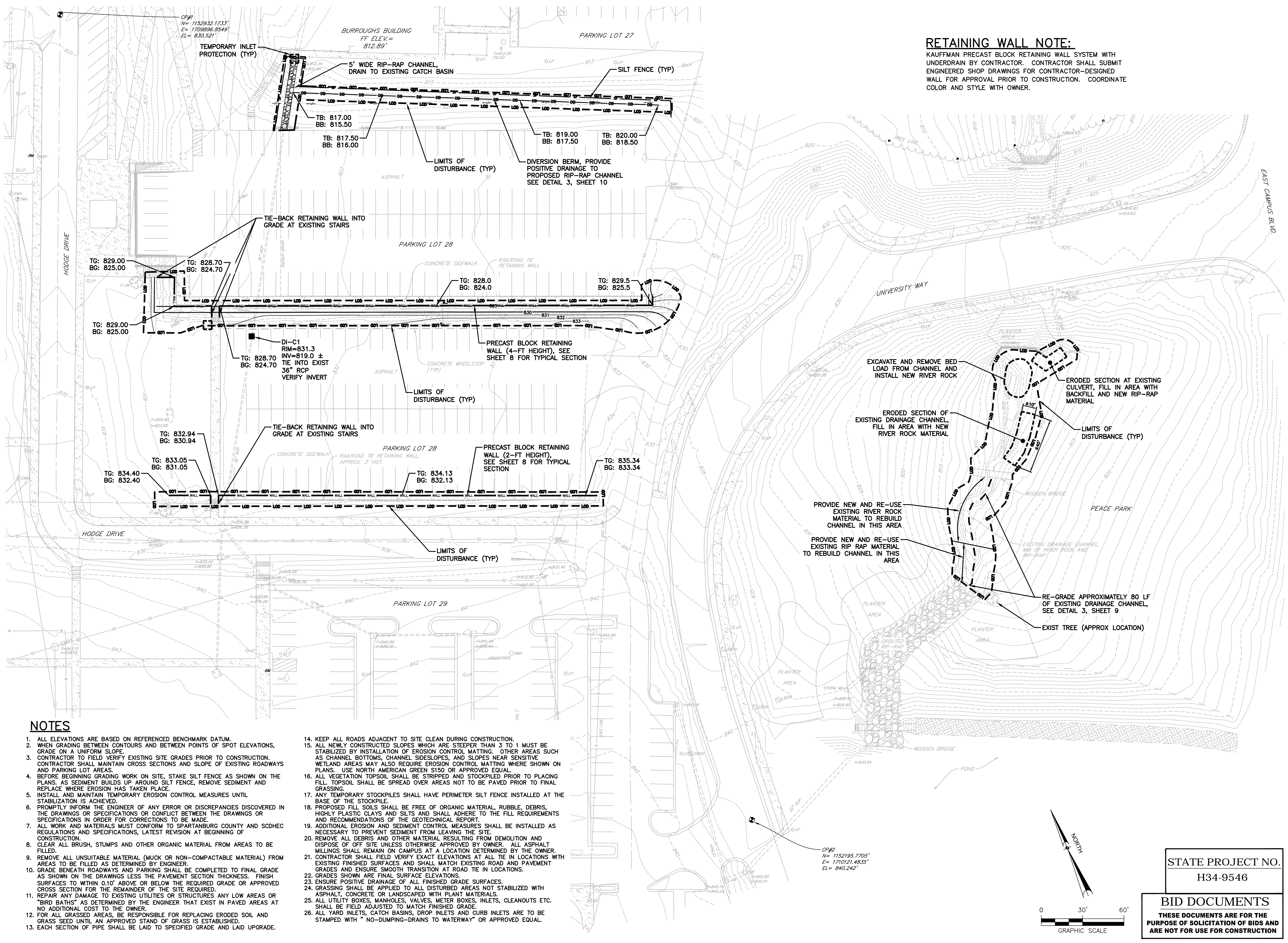
**CONSULTANT**  
 AECOM  
 101 Research Drive,  
 Columbia, SC 29203  
 803.254.4400 tel 803.771.6676 fax  
 www.aecom.com

**REGISTRATION**



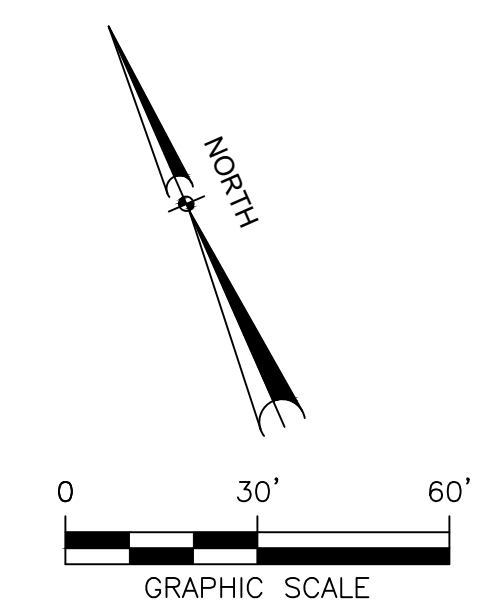
**RETAINING WALL NOTE:**

KAUFFMAN PRECAST BLOCK RETAINING WALL SYSTEM WITH UNDERDRAIN BY CONTRACTOR. CONTRACTOR SHALL SUBMIT ENGINEERED SHOP DRAWINGS FOR CONTRACTOR-DESIGNED WALL FOR APPROVAL PRIOR TO CONSTRUCTION. COORDINATE COLOR AND STYLE WITH OWNER.



**NOTES**

1. ALL ELEVATIONS ARE BASED ON REFERENCED BENCHMARK DATUM.
2. WHEN GRADING BETWEEN CONTOURS AND BETWEEN POINTS OF SPOT ELEVATIONS, GRADE ON A UNIFORM SLOPE.
3. CONTRACTOR TO FIELD VERIFY EXISTING SITE GRADES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAINTAIN CROSS SECTIONS AND SLOPE OF EXISTING ROADWAYS AND PARKING LOT AREAS.
4. BEFORE BEGINNING GRADING WORK ON SITE, STAKE SILT FENCE AS SHOWN ON THE PLANS. AS SEDIMENT BUILDS UP AROUND SILT FENCE, REMOVE SEDIMENT AND REPLACE WHERE EROSION HAS TAKEN PLACE.
5. INSTALL AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL STABILIZATION IS ACHIEVED.
6. PROMPTLY INFORM THE ENGINEER OF ANY ERROR OR DISCREPANCIES DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS IN ORDER FOR CORRECTIONS TO BE MADE.
7. ALL WORK AND MATERIALS MUST CONFORM TO SPARTANBURG COUNTY AND SCDEH REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
8. CLEAR ALL BRUSH, STUMPS AND OTHER ORGANIC MATERIAL FROM AREAS TO BE FILLED.
9. REMOVE ALL UNSUITABLE MATERIAL (MUCK OR NON-COMPACTABLE MATERIAL) FROM AREAS TO BE FILLED AS DETERMINED BY ENGINEER.
10. GRADE BENEATH ROADWAYS AND PARKING SHALL BE COMPLETED TO FINAL GRADE AS SHOWN ON THE DRAWINGS LESS THE PAVEMENT SECTION THICKNESS. FINISH SURFACES TO WITHIN 0.10' ABOVE OR BELOW THE REQUIRED GRADE OR APPROVED CROSS SECTION FOR THE REMAINDER OF THE SITE REQUIRED.
11. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ANY LOW AREAS OR "BIRD BATHS" AS DETERMINED BY THE ENGINEER THAT EXIST IN PAVED AREAS AT NO ADDITIONAL COST TO THE OWNER.
12. FOR ALL GRASSSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.
13. EACH SECTION OF PIPE SHALL BE LAID TO SPECIFIED GRADE AND LAID UPGRADE.
14. KEEP ALL ROADS ADJACENT TO SITE CLEAN DURING CONSTRUCTION.
15. ALL NEWLY CONSTRUCTED SLOPES WHICH ARE STEEPER THAN 3 TO 1 MUST BE STABILIZED BY INSTALLATION OF EROSION CONTROL MATTING. OTHER AREAS SUCH AS CHANNEL BOTTOMS, CHANNEL SIDESLOPES, AND SLOPES NEAR SENSITIVE WETLAND AREAS MAY ALSO REQUIRE EROSION CONTROL MATTING WHERE SHOWN ON PLANS. USE NORTH AMERICAN GREEN S150 OR APPROVED EQUAL.
16. ALL VEGETATION TOPSOIL SHALL BE STRIPPED AND STOCKPILED PRIOR TO PLACING FILL. TOPSOIL SHALL BE SPREAD OVER AREAS NOT TO BE PAVED PRIOR TO FINAL GRASSING.
17. ANY TEMPORARY STOCKPILES SHALL HAVE PERIMETER SILT FENCE INSTALLED AT THE BASE OF THE STOCKPILE.
18. PROPOSED FILL SOILS SHALL BE FREE OF ORGANIC MATERIAL, RUBBLE, DEBRIS, HIGHLY PLASTIC CLAYS AND SILTS AND SHALL ADHERE TO THE FILL REQUIREMENTS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
19. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.
20. REMOVE ALL DEBRIS AND OTHER MATERIAL RESULTING FROM DEMOLITION AND DISPOSE OF OFF SITE UNLESS OTHERWISE APPROVED BY OWNER. ALL ASPHALT MILLINGS SHALL REMAIN ON CAMPUS AT A LOCATION DETERMINED BY THE OWNER.
21. CONTRACTOR SHALL FIELD VERIFY EXACT ELEVATIONS AT ALL TIE IN LOCATIONS WITH EXISTING FINISHED SURFACES AND SHALL MATCH EXISTING ROAD AND PAVEMENT GRADES AND ENSURE SMOOTH TRANSITION AT ROAD TIE IN LOCATIONS.
22. GRADES SHOWN ARE FINAL SURFACE ELEVATIONS.
23. ENSURE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES.
24. GRASSING SHALL BE APPLIED TO ALL DISTURBED AREAS NOT STABILIZED WITH ASPHALT, CONCRETE OR LANDSCAPED WITH PLANT MATERIALS.
25. ALL UTILITY BOXES, MANHOLES, VALVES, METER BOXES, INLETS, CLEANOUTS ETC. SHALL BE FIELD ADJUSTED TO MATCH FINISHED GRADE.
26. ALL YARD INLETS, CATCH BASINS, DROP INLETS AND CURB INLETS ARE TO BE STAMPED WITH "NO-DUMPING-DRAINS TO WATERWAY" OR APPROVED EQUAL.



**STATE PROJECT NO.**  
 H34-9546

**BID DOCUMENTS**  
 THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

**ISSUE/REVISION**

IR	DATE	DESCRIPTION
2016-08-12	BID DRAWINGS	

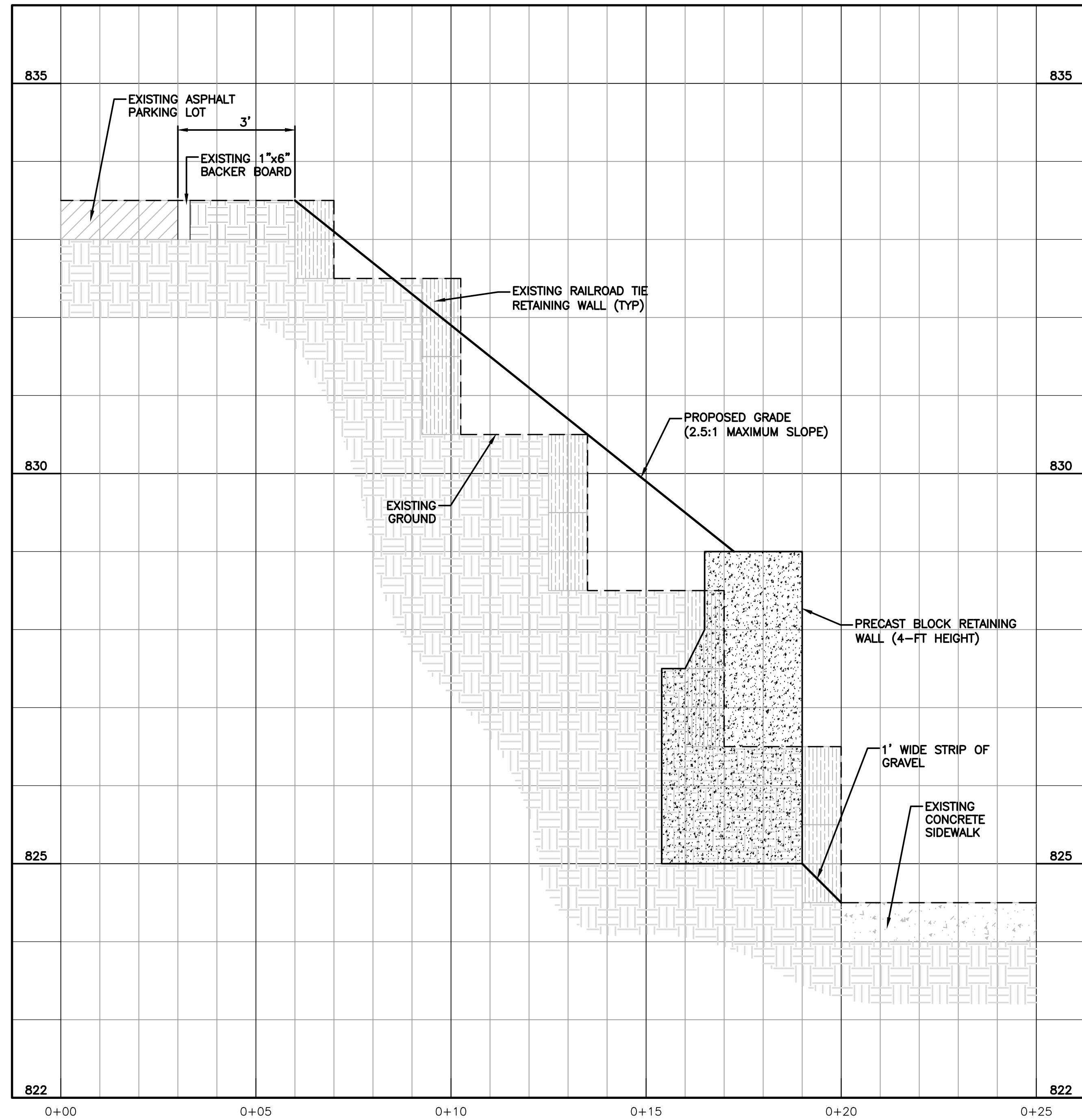
**KEY PLAN**  
 SHEET SCALE: AS SHOWN

**PROJECT & FILE NUMBER**  
 PROJECT NUMBER: 60495792  
 FILE NUMBER: 36799-B93

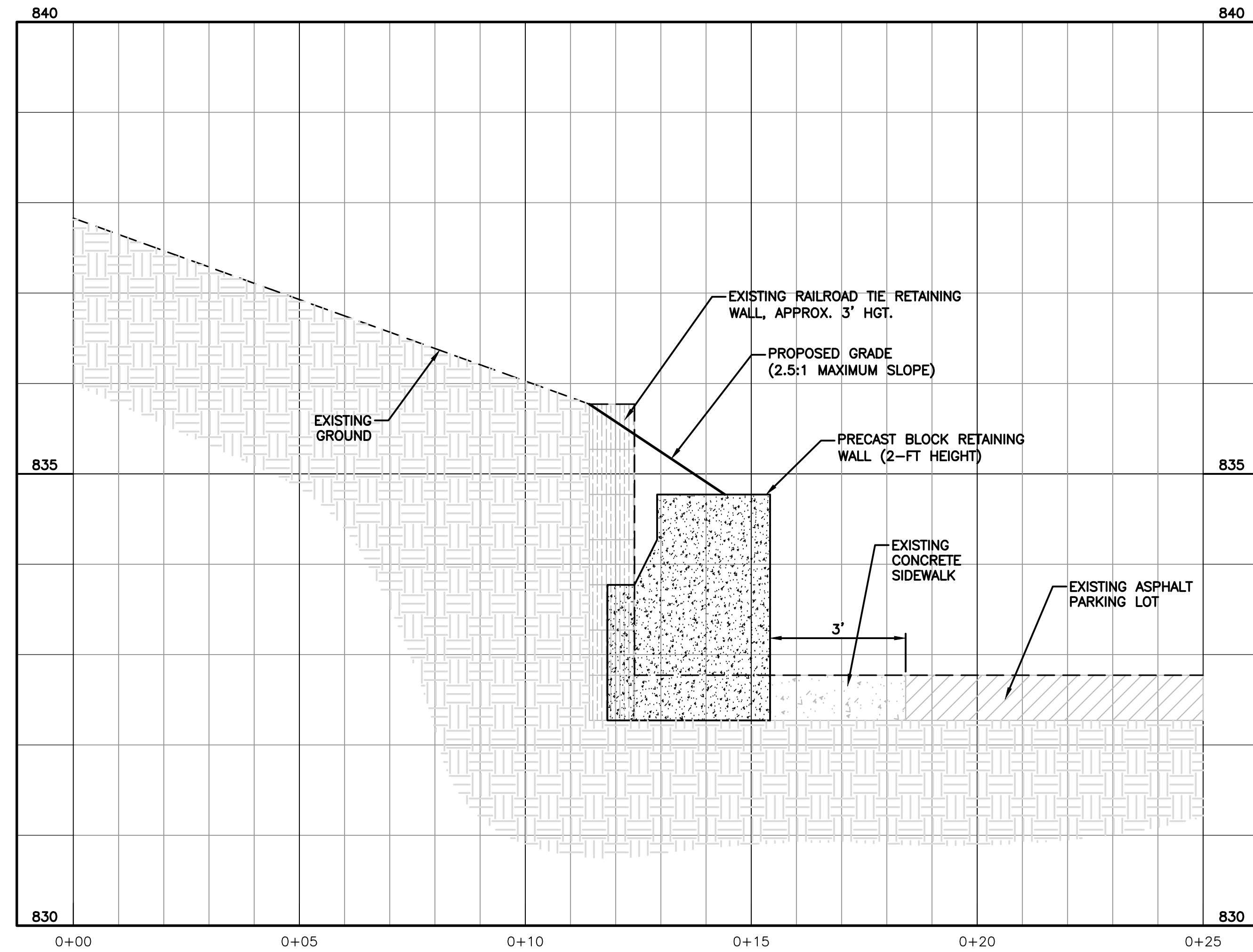
**SHEET TITLE**  
 SITE IMPROVEMENT PLAN - PARKING LOT 28 & PEACE PARK

**SHEET NUMBER**  
 7

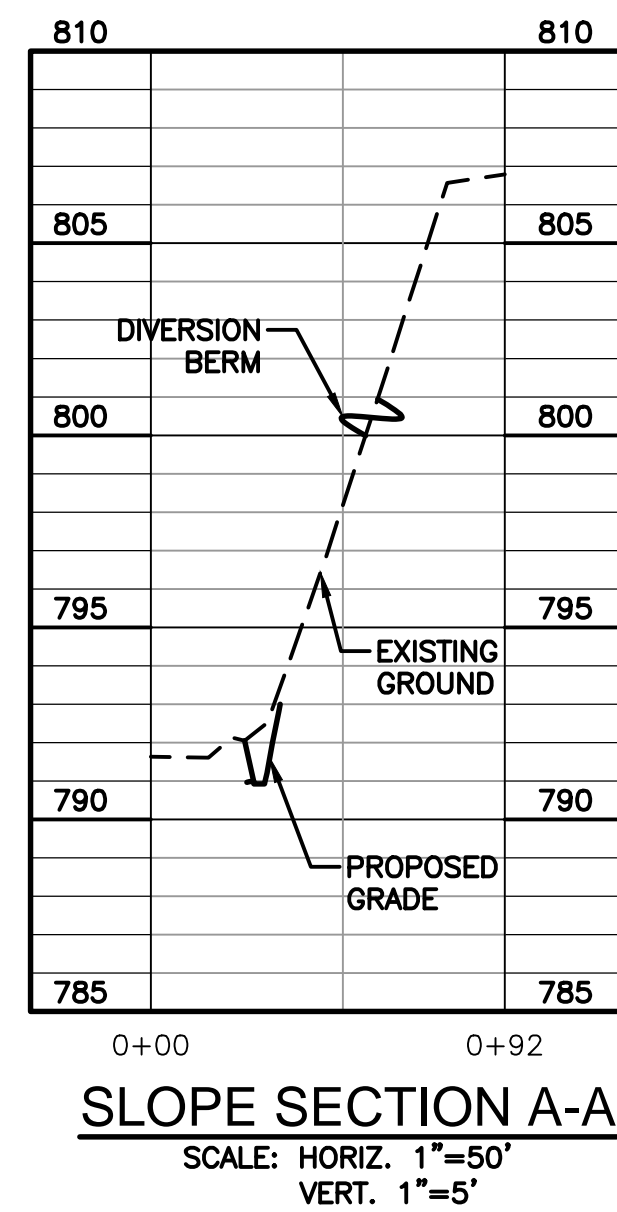




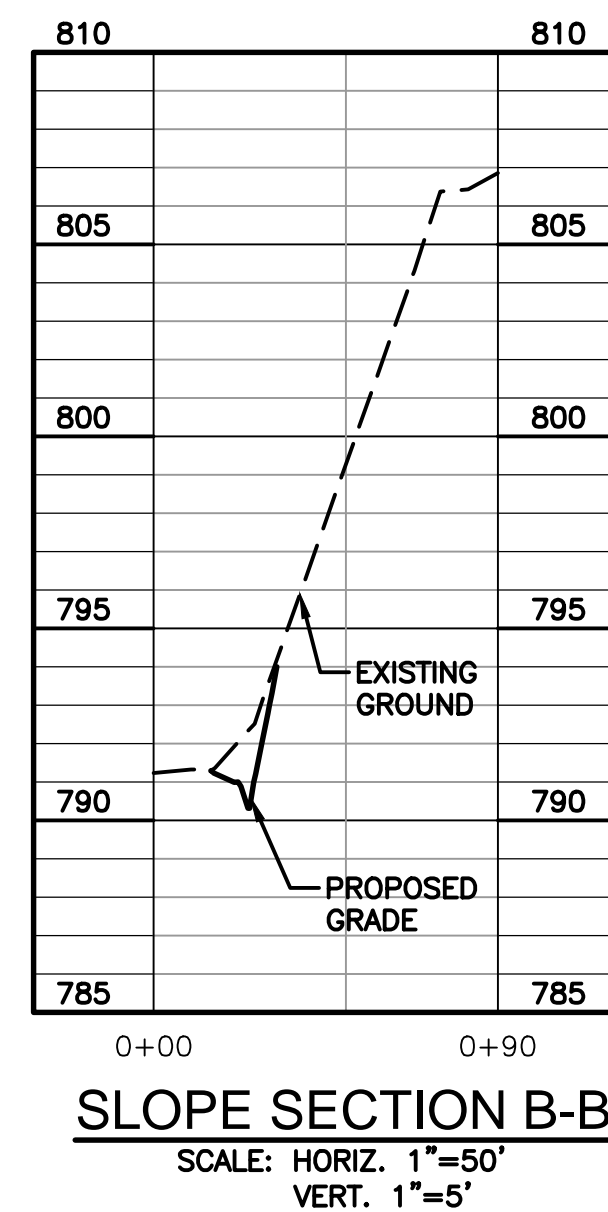
**TYPICAL 4' HEIGHT RETAINING WALL SECTION**  
 SCALE: HORIZ. 1"=2'  
 VERT. 1"=1'



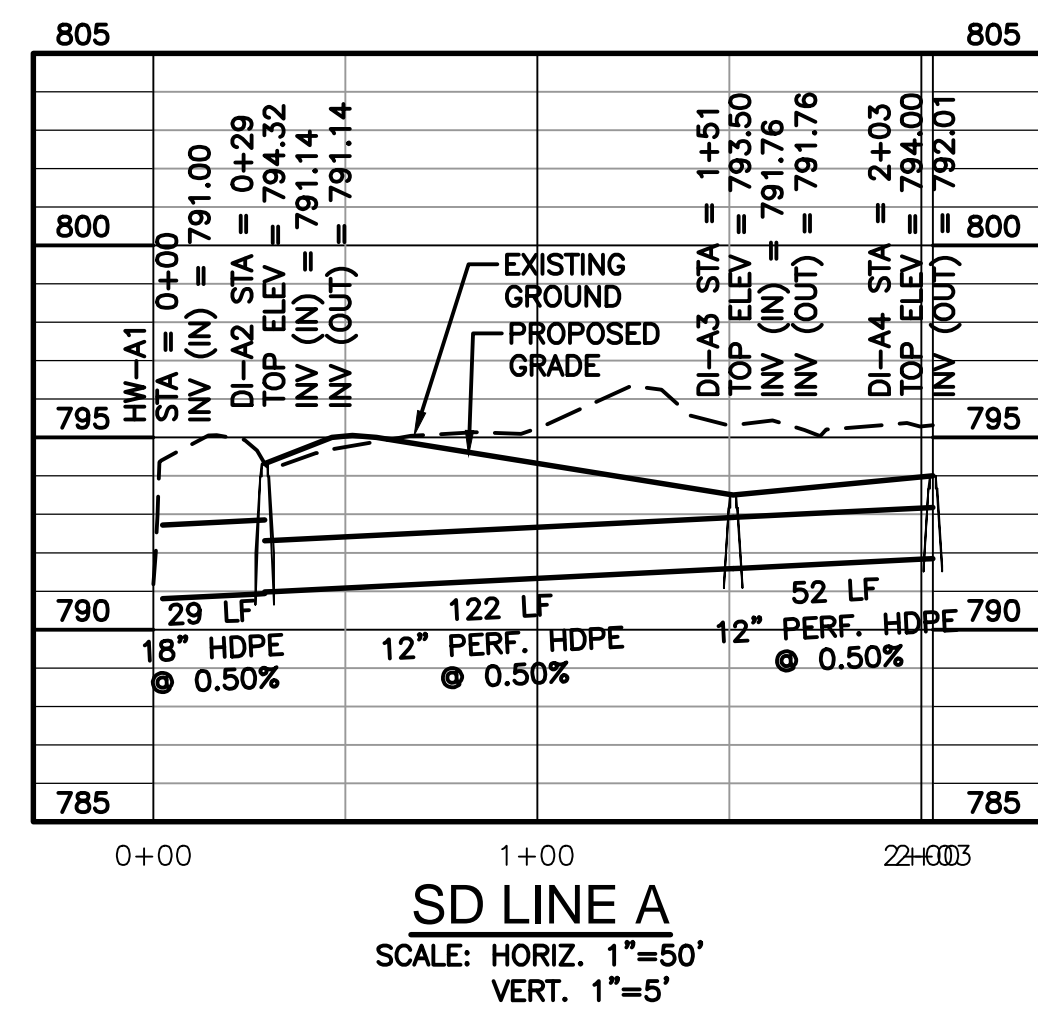
**TYPICAL 2' HEIGHT RETAINING WALL SECTION**  
 SCALE: HORIZ. 1"=2'  
 VERT. 1"=1'



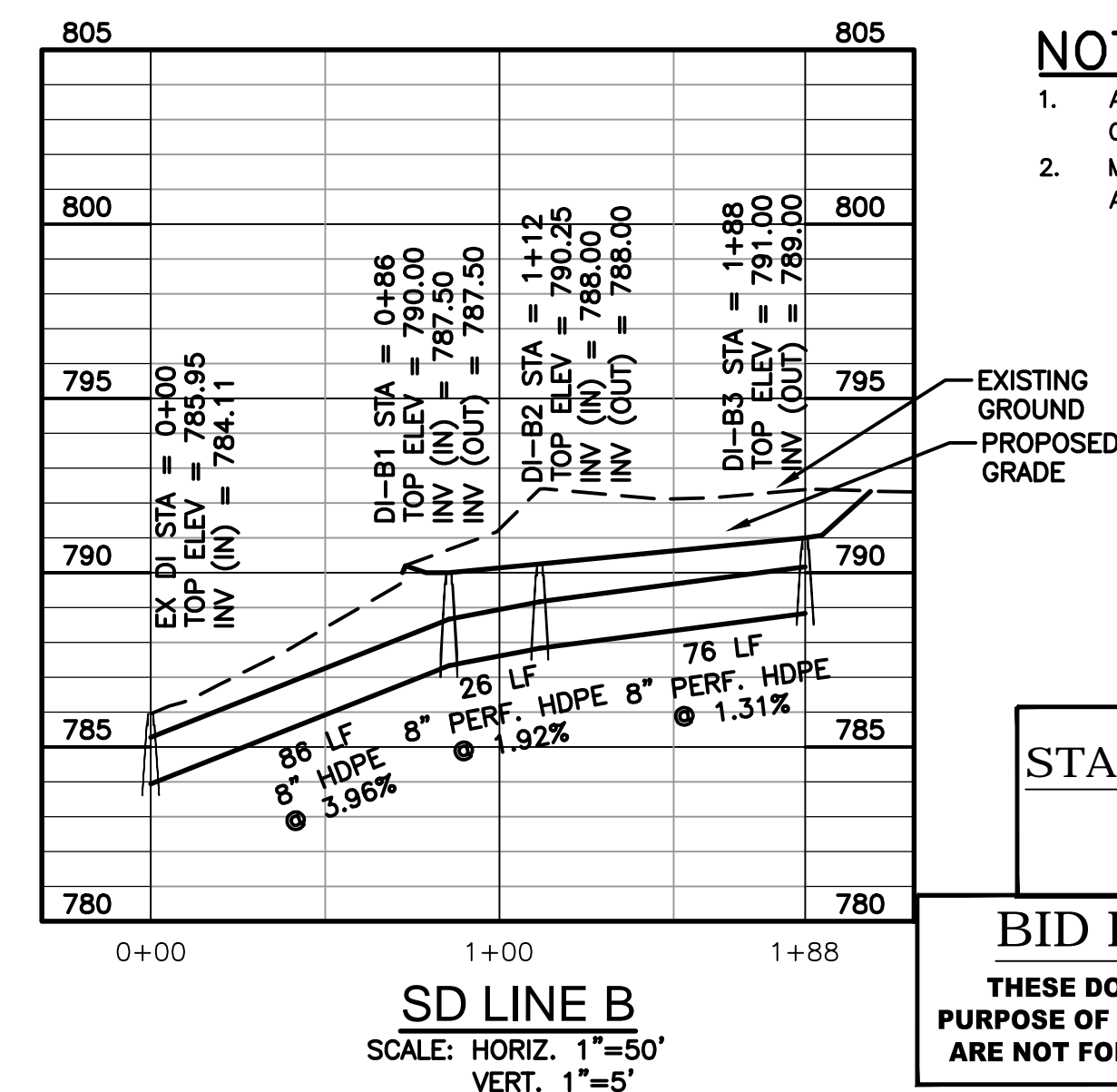
**SLOPE SECTION A-A**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'



**SLOPE SECTION B-B**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'



**SD LINE A**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'



**SD LINE B**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'

**NOTES:**

- ALL PIPE LENGTHS ARE TO CENTER OF BOX.
- MAINTAIN MINIMUM 1' COVER ON ALL STORM DRAINAGE PIPES.

**STATE PROJECT NO.**  
 H34-9546

**BID DOCUMENTS**  
 THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION



*Anthony Selef*

ISSUE/REVISION

IR	DATE	DESCRIPTION

KEY PLAN

SHEET SCALE: AS SHOWN

PROJECT & FILE NUMBER

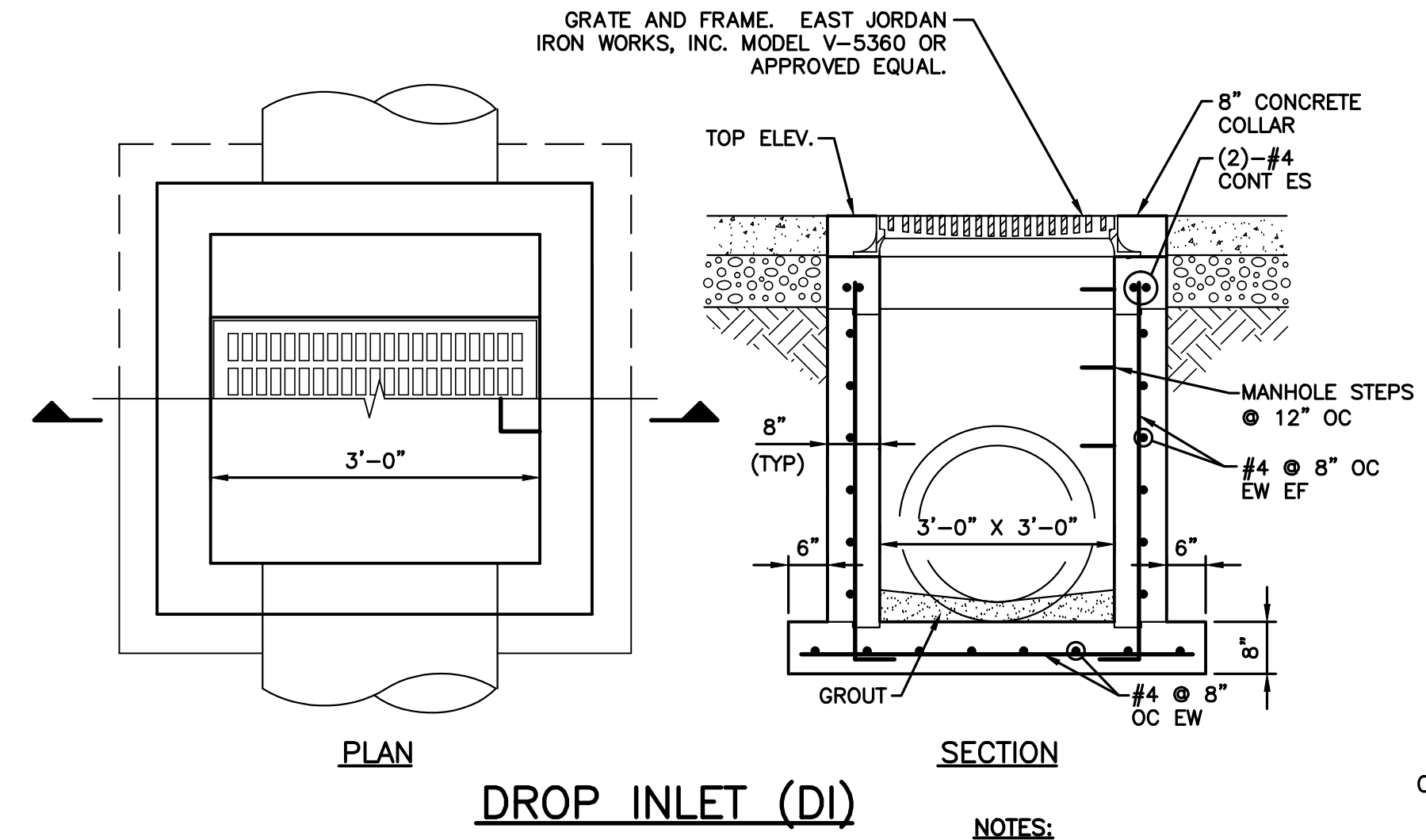
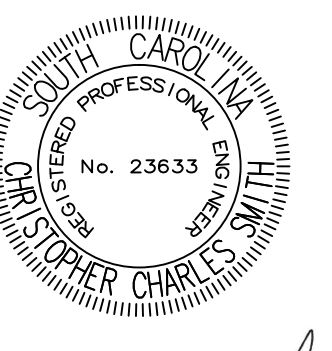
PROJECT NUMBER: 60495792  
 FILE NUMBER: 36799-B93

SHEET TITLE

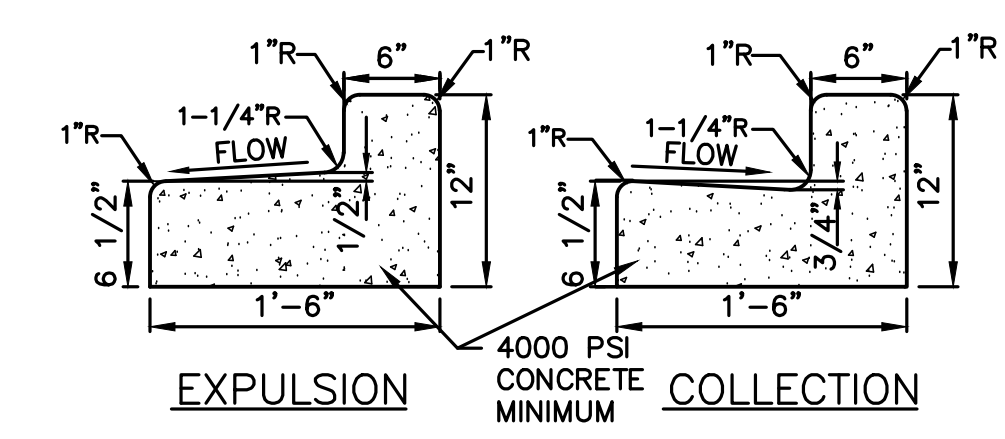
STORM DRAINAGE  
 PROFILES AND SECTIONS

SHEET NUMBER

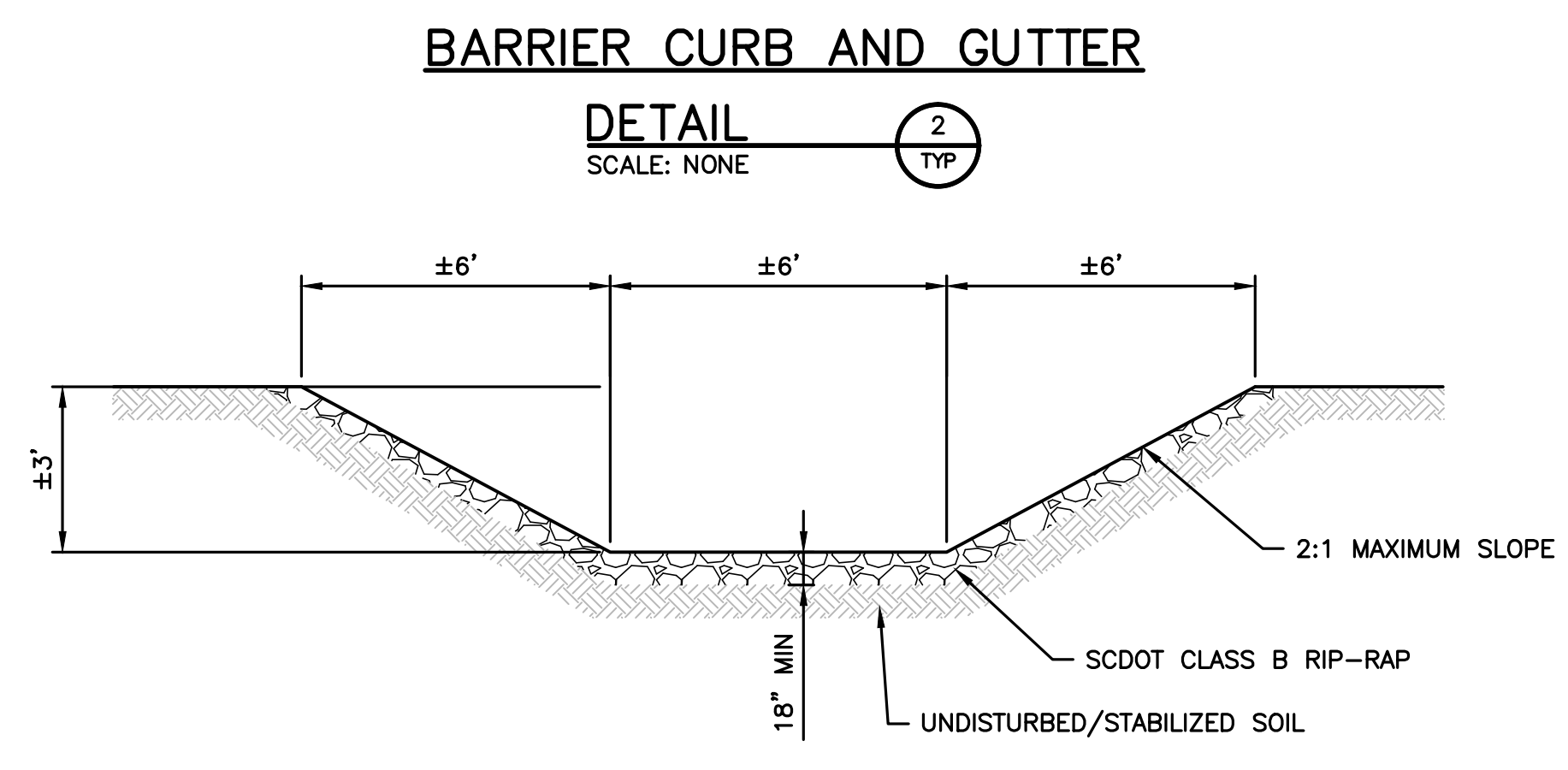
This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability, whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.



**DROP INLET (DI)**  
**DETAIL**  
SCALE: NONE (1) TYP

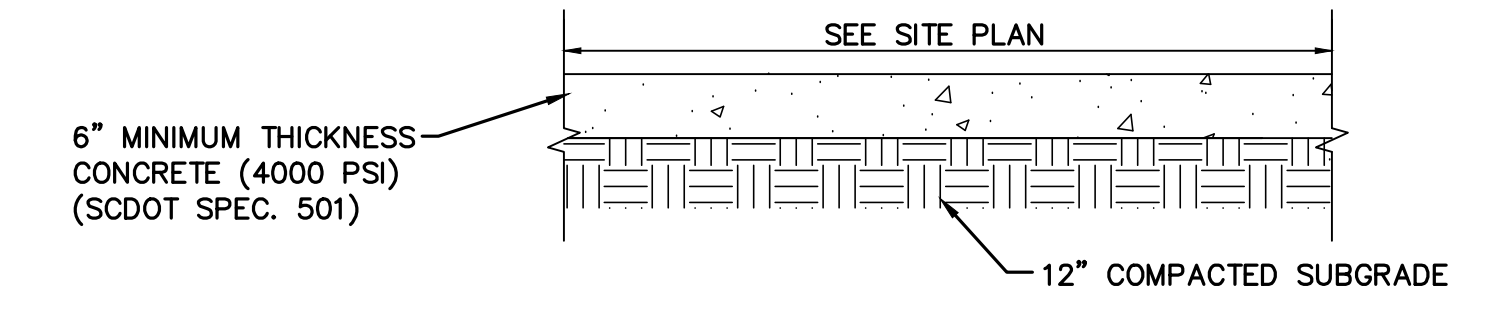


**BARRIER CURB AND GUTTER**  
**DETAIL**  
SCALE: NONE (2) TYP

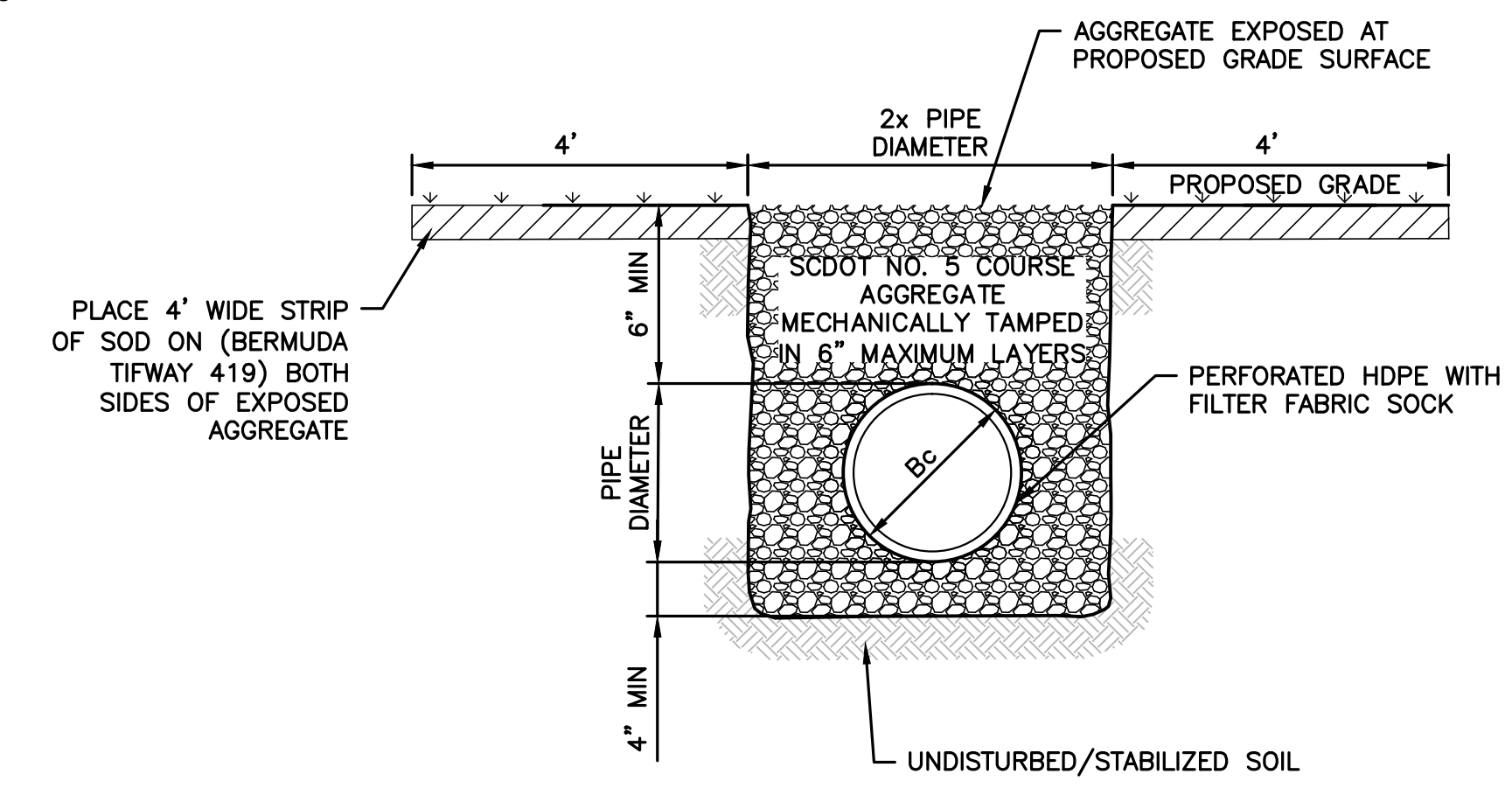


**RIP-RAP CHANNEL**  
**DETAIL**  
SCALE: NONE (3) TYP

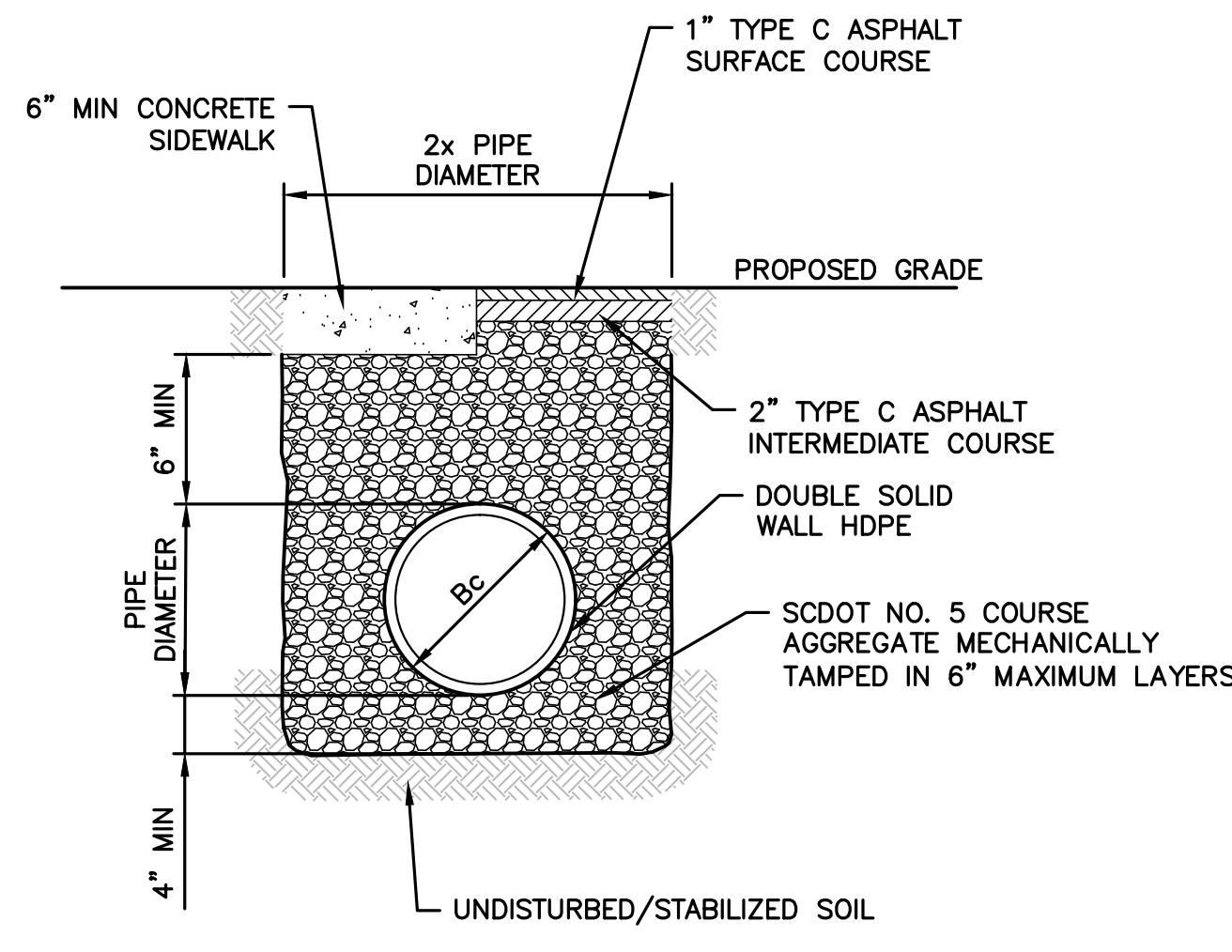
NOTE: THIS DETAIL APPLIES TO THE RIP RAP SWALE REPLACEMENT LOCATED IN THE PEACE PARK AREA ONLY. CROSS SECTION IS APPROXIMATE. FOLLOW EXISTING CHANNEL DIMENSIONS AS CLOSELY AS POSSIBLE TO RETAIN EXISTING CHARACTER OF STREAM.



**TYPICAL SIDEWALK**  
**DETAIL**  
SCALE: NONE (4) TYP



**STORM DRAINAGE BEDDING (GRASS AREA ONLY)**  
**DETAIL**  
SCALE: NONE (5) TYP



**STORM DRAINAGE BEDDING (PAVEMENT AREA ONLY)**  
**DETAIL**  
SCALE: NONE (6) TYP

NOTES:  
1. HAND SHAPED BOTTOM - SHAPE BELL HOLES FOR USE IN DRY EARTH TRENCHES ONLY. APPLICABLE TO BOTH EARTH AND ROCK TRENCHES.

**ISSUE/REVISION**

IR	DATE	DESCRIPTION
2016-08-12		BID DRAWINGS

**KEY PLAN**  
SHEET SCALE: AS SHOWN

**PROJECT & FILE NUMBER**  
PROJECT NUMBER: 60495792  
FILE NUMBER: 36799-B93  
**SHEET TITLE**  
SITE DETAILS

**SHEET NUMBER**

STATE PROJECT NO.  
H34-9546  
**BID DOCUMENTS**  
THESE DOCUMENTS ARE FOR THE  
PURPOSE OF SOLICITATION OF BIDS AND  
ARE NOT FOR USE FOR CONSTRUCTION

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability, whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

ARCH D 24" x 36" Approved: CCS Checked: CCS Drafter: MDJ Designer: MDJ Project Management Initials: Project Eng.: MDJ Last saved by: ANTHONY\_SELF(0116.08.08) Last Plotted: 2016.08.08 Filename: N:\PROJECTS\60495792\_USC UPSTATE STORM DRAINAGE\_REPAIR\900-WORK\010-DRAWINGS\SHEETSS9\_DETAILS.DWG



PROJECT Storm Drainage Repairs University of South Carolina Upstate Campus Spartanburg, SC

CLIENT University of South Carolina Upstate 800 University Way Spartanburg, SC 29303

CONSULTANT AECOM 101 Research Drive, Columbia, SC 29203 803.254.4400 tel 803.771.6676 fax www.aecom.com

REGISTRATION SOUTH CAROLINA AECOM TECHNICAL SERVICES, INC. No. 1473 CERTIFICATE OF AUTHORITY 8/12/2016

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 23633 JOHN W. CLOPPER CHARLES

ISSUE/REVISION table with columns for date and description.

KEY PLAN SHEET SCALE: AS SHOWN

PROJECT & FILE NUMBER PROJECT NUMBER: 60495792 FILE NUMBER: 36799-893

SHEET TITLE SITE DETAILS

SHEET NUMBER

STATE PROJECT NO. H34-9546

BID DOCUMENTS THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

SEDIMENT AND EROSION CONTROL NOTES

- GENERAL NOTES: 1. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM. 2. CONTRACTOR SHALL, FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.

GRASSING NOTES

- GRASSING NOTES: 1. SEED THESE AREAS IMMEDIATELY UPON COMPLETION OF GRADING OR CONSTRUCTION AND CLEAN-UP OPERATIONS. 2. AREAS READY FOR PLANTING BETWEEN AUGUST 16 AND FEBRUARY 28 SHALL BE PLANTED WITH A TEMPORARY COVER OF SCHEDULE NO. 2.

GRASSING SCHEDULES

GRASSING SCHEDULE NO. 1 - PLANTING DATES MARCH 1 TO AUGUST 15: Table with columns for COMMON NAME OF SEED, RATE A, RATE B.

GRASSING SCHEDULE NO. 2 - PLANTING DATES AUGUST 16 - FEBRUARY 28:

GRASSING SCHEDULE NO. 2 table with columns for COMMON NAME OF SEED, RATE A, RATE B.

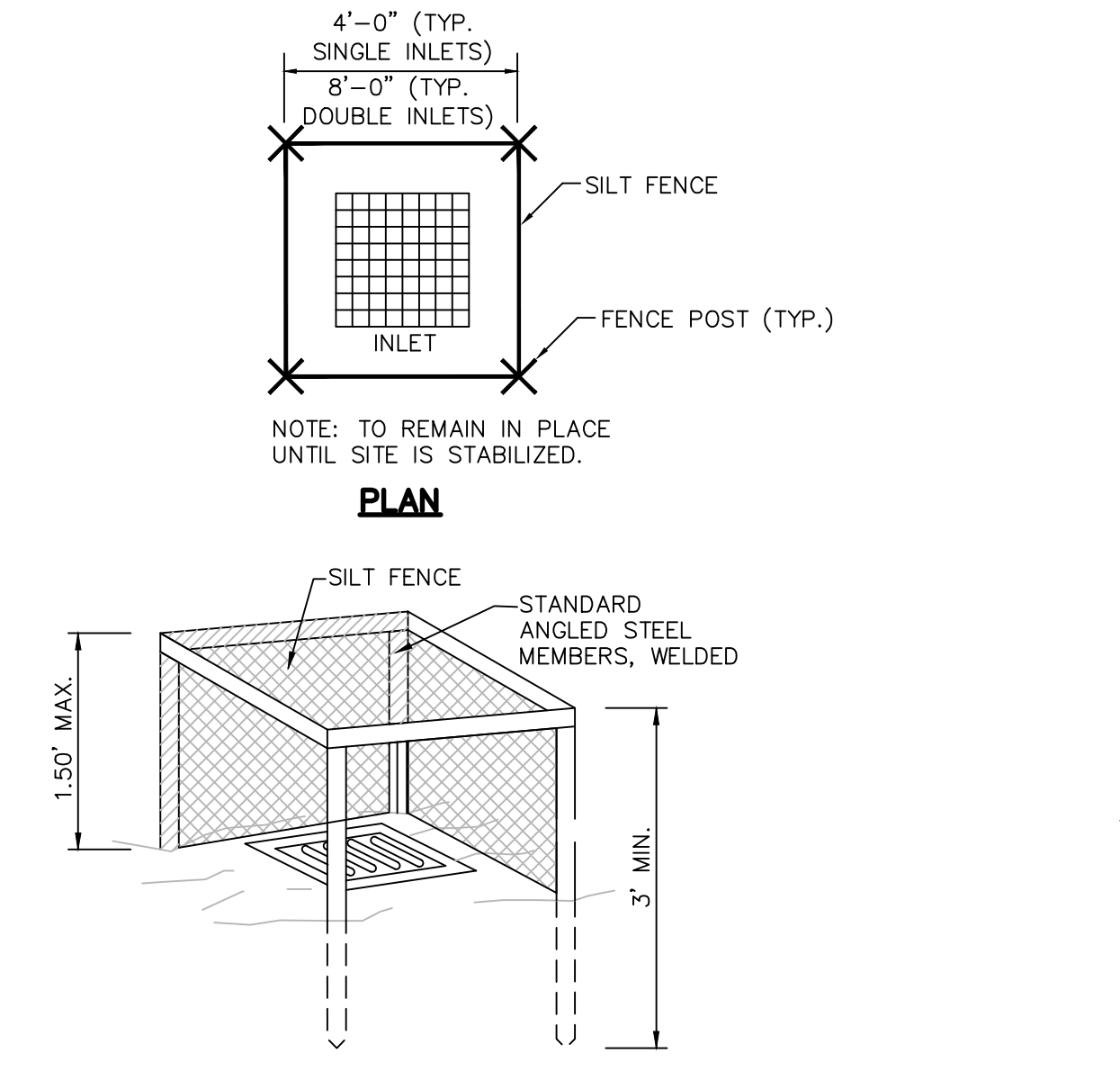
COORDINATE SEEDING/GRASSING REQUIREMENTS WITH USC UPSTATE PRIOR TO STABILIZATION DURING CONSTRUCTION

STANDARD NOTES:

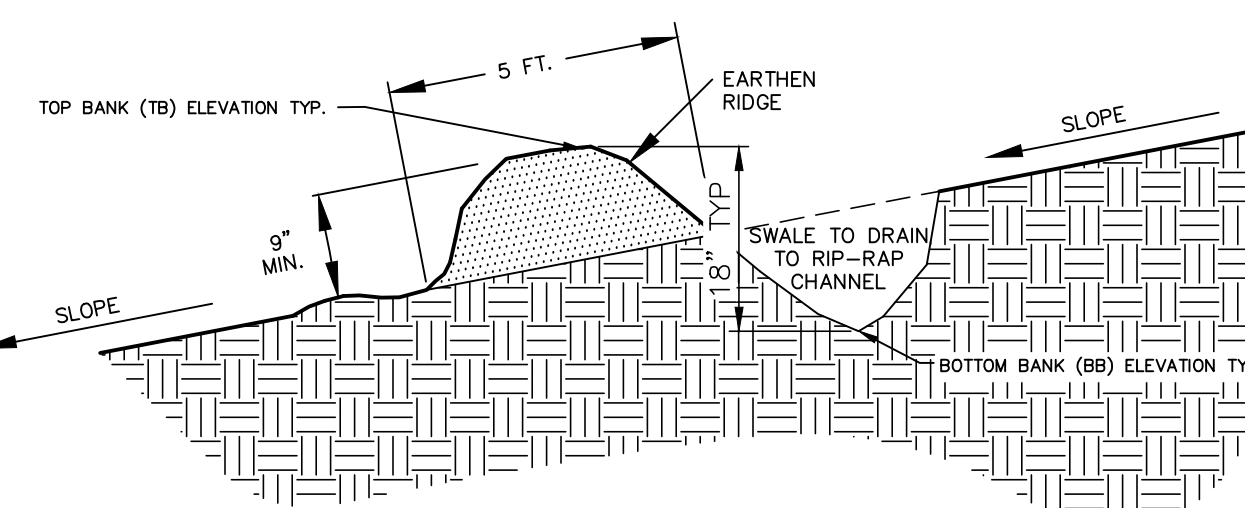
- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR NATIVE MATS. IN ADDITION TO HYDROSEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

CONSTRUCTION AND EROSION AND SEDIMENT CONTROL SEQUENCE

- RECEIVE NOTIFICATION OF NPDES COVERAGE FROM SPARTANBURG COUNTY AND SCDHEC. COORDINATE PRE-CONSTRUCTION MEETING ON-SITE AND NOTIFY SPARTANBURG COUNTY OFFICE AT LEAST 48 HOURS IN ADVANCE OF LAND DISTURBING ACTIVITIES.



TEMPORARY INLET PROTECTION - FILTER FABRIC



SECTION DIVERSION BERM

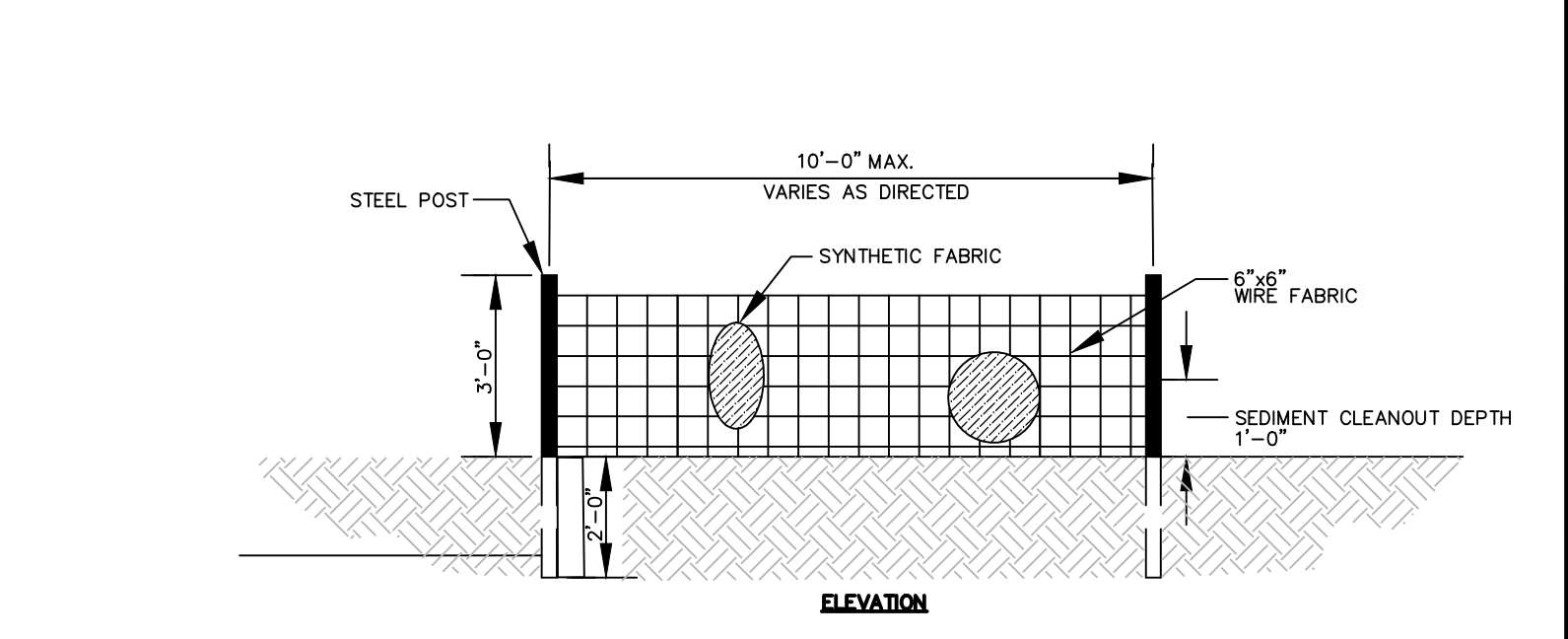


14 DAY STABILIZATION CLAUSE

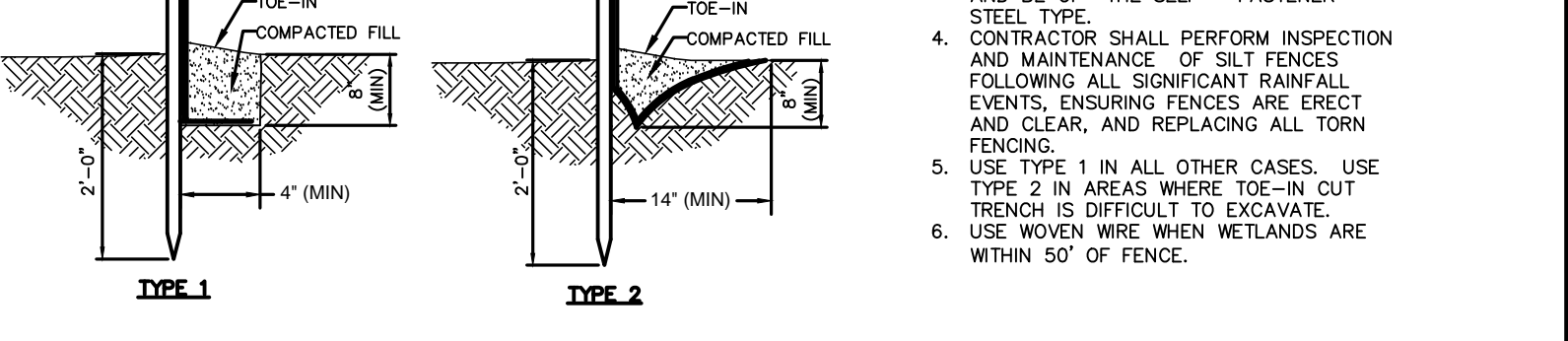
ALL DISTURBED AREAS WHICH ARE TO BE LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION OR MULCH.

EROSION CONTROL MAINTENANCE SCHEDULE

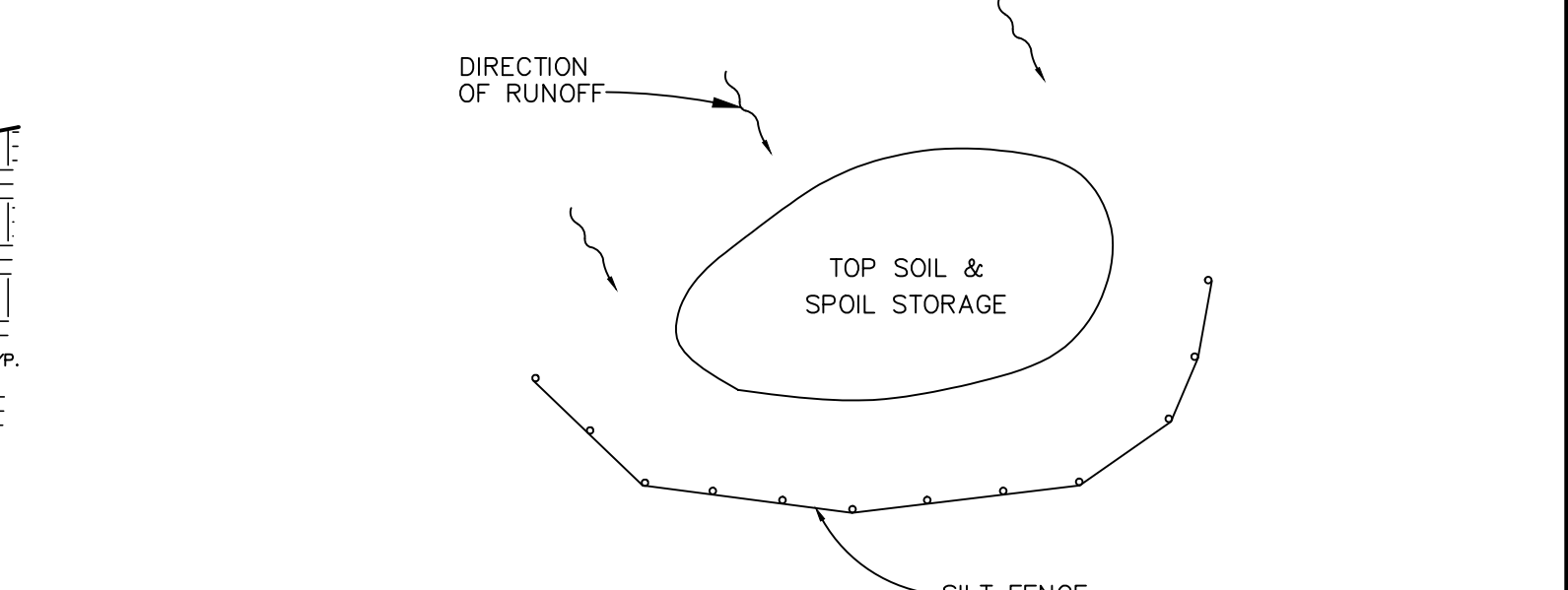
ALL SEDIMENT AND EROSION CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS. CONTRACTOR TO DOCUMENT WITH SCDHEC APPROVED INSPECTION REPORTS AND LOGGED IN THE PROJECT SWPPP.



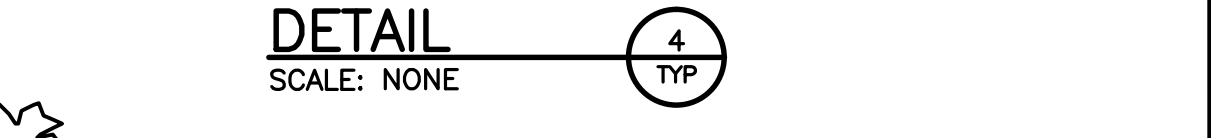
SILT FENCE WITH WIRE FABRIC



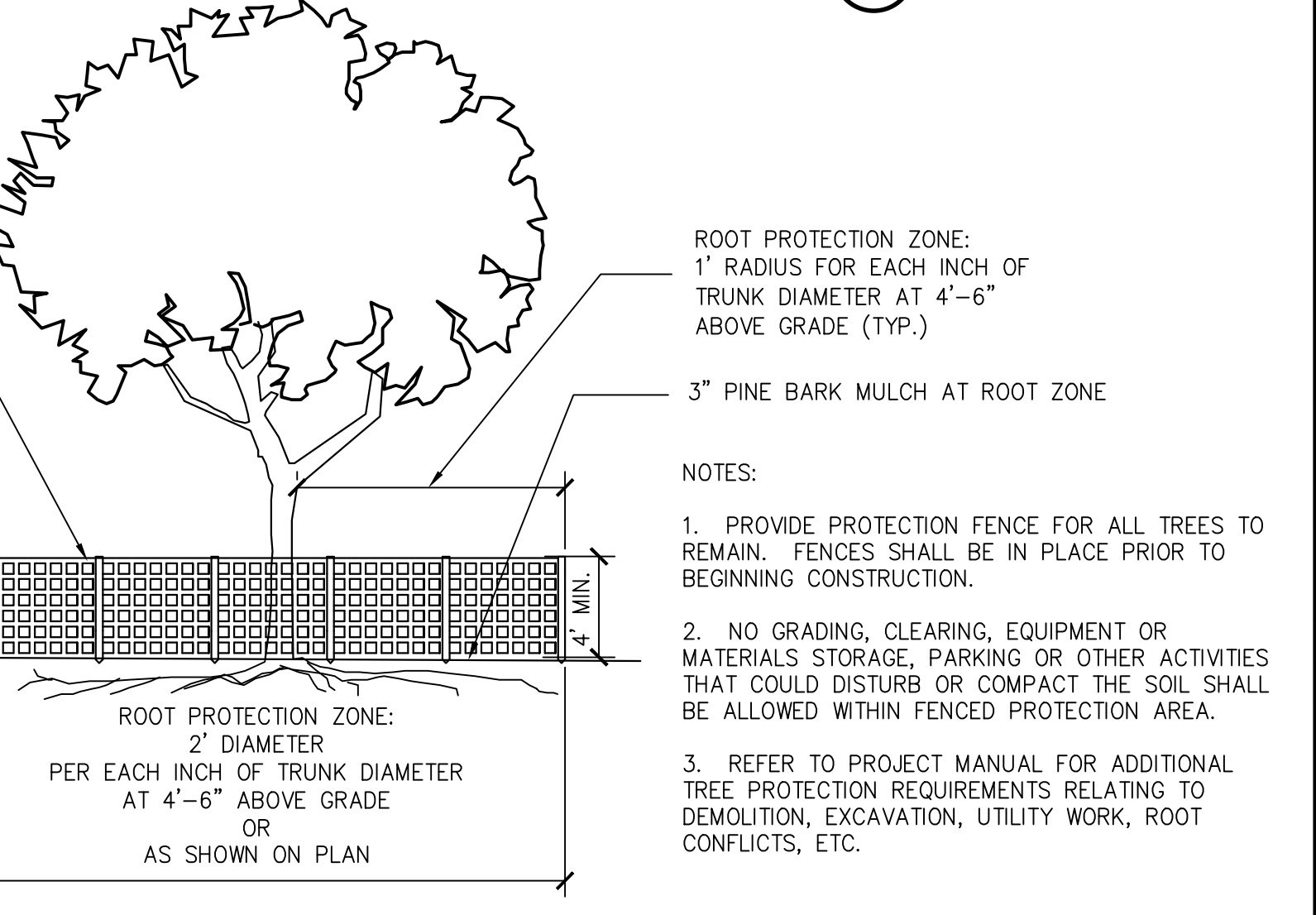
DETAIL (2) TYP. SCALE: NONE



TOP SOIL & SPOIL STORAGE



DETAIL (4) TYP. SCALE: NONE



TREE PROTECTION FENCING



DETAIL (5) TYP. SCALE: NONE

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed to by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.