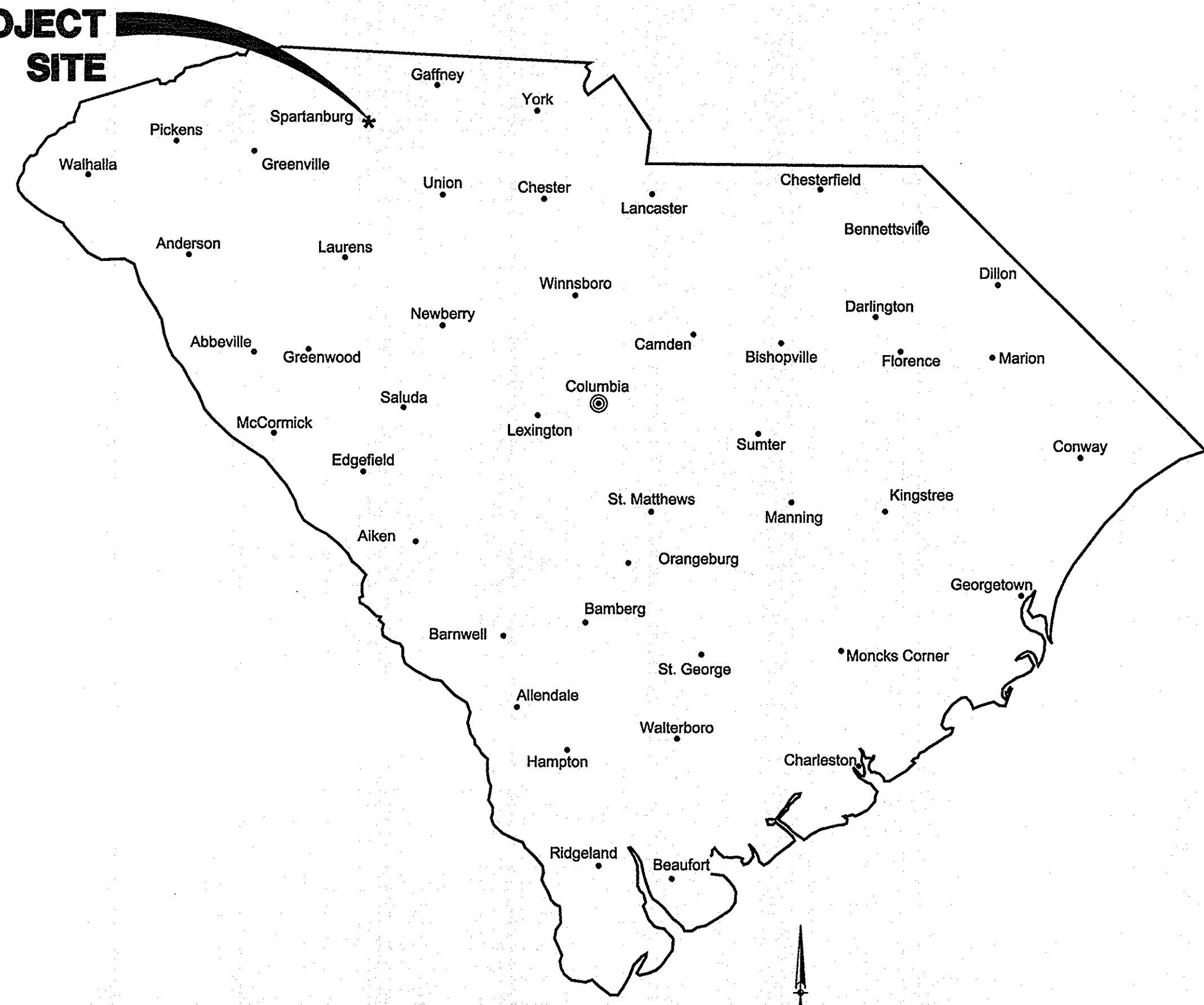


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PROJECT SITE



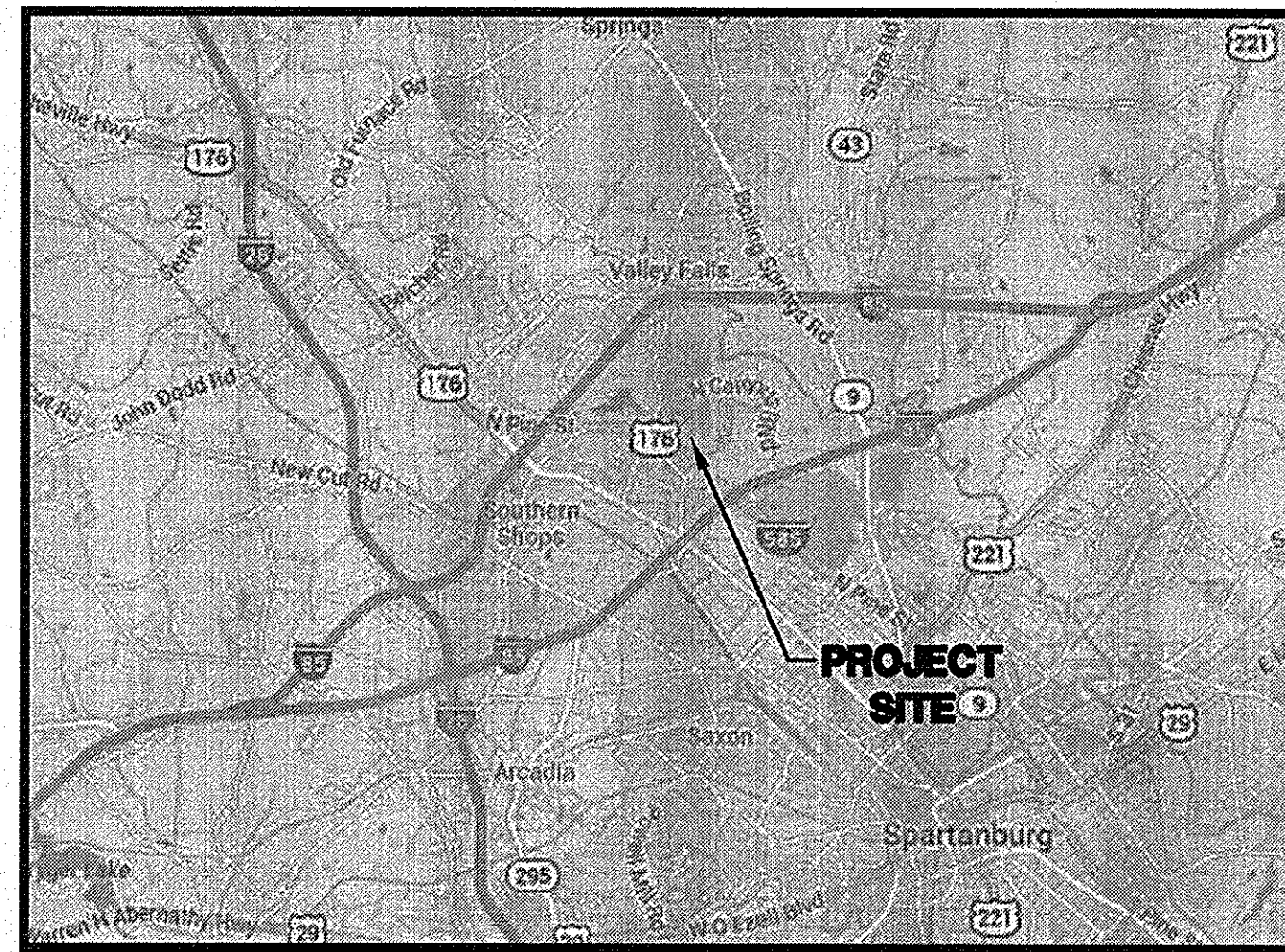
VICINITY MAP

USC UPSTATE STREET AND PARKING LOT MAINTENANCE AND REPAIRS

PREPARED FOR
UNIVERSITY OF SOUTH CAROLINA
SPARTANBURG, SOUTH CAROLINA

SHEET INDEX

<u>SHEET</u>	<u>SHEET No.</u>
GENERAL NOTES, LEGEND, SYMBOLS & ABBREVIATIONS	1
EXISTING CONDITIONS AND DEMOLITION PLAN	2-4
SITE IMPROVEMENT PLAN	5-7
SITE DETAILS	8-10



LOCATION MAP

SCALE: 1" = 2000'

3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:



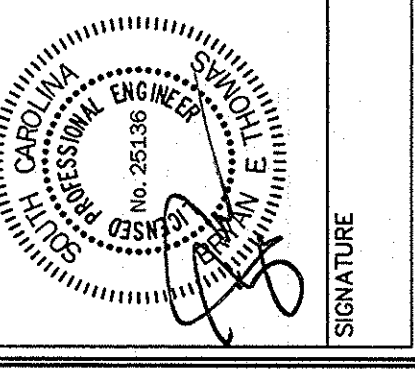
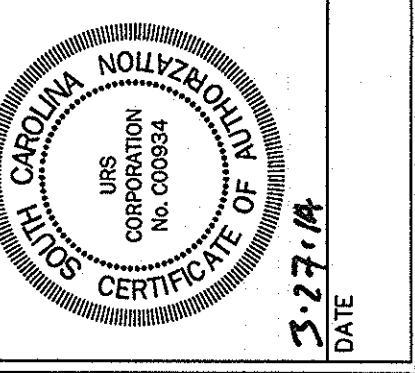
1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)
2. METRO WATER: 1-864-503-0822

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

STATE PROJECT NO.
H34-9544-JM-E

BID DOCUMENTS

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



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101 Research Drive
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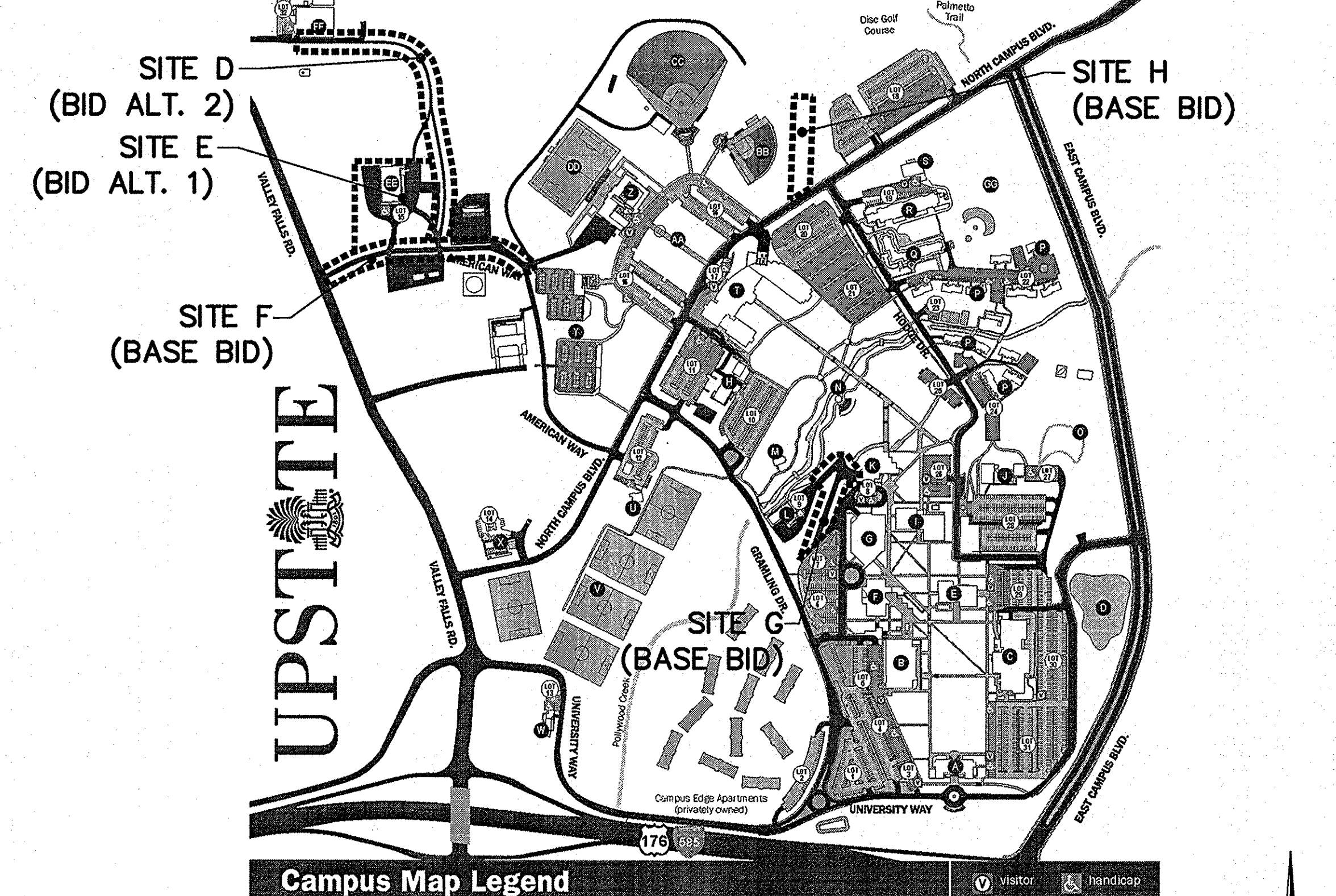
MARCH 27, 2014

PROJECT NO.
46423272

FILE NO.
36,271-B91

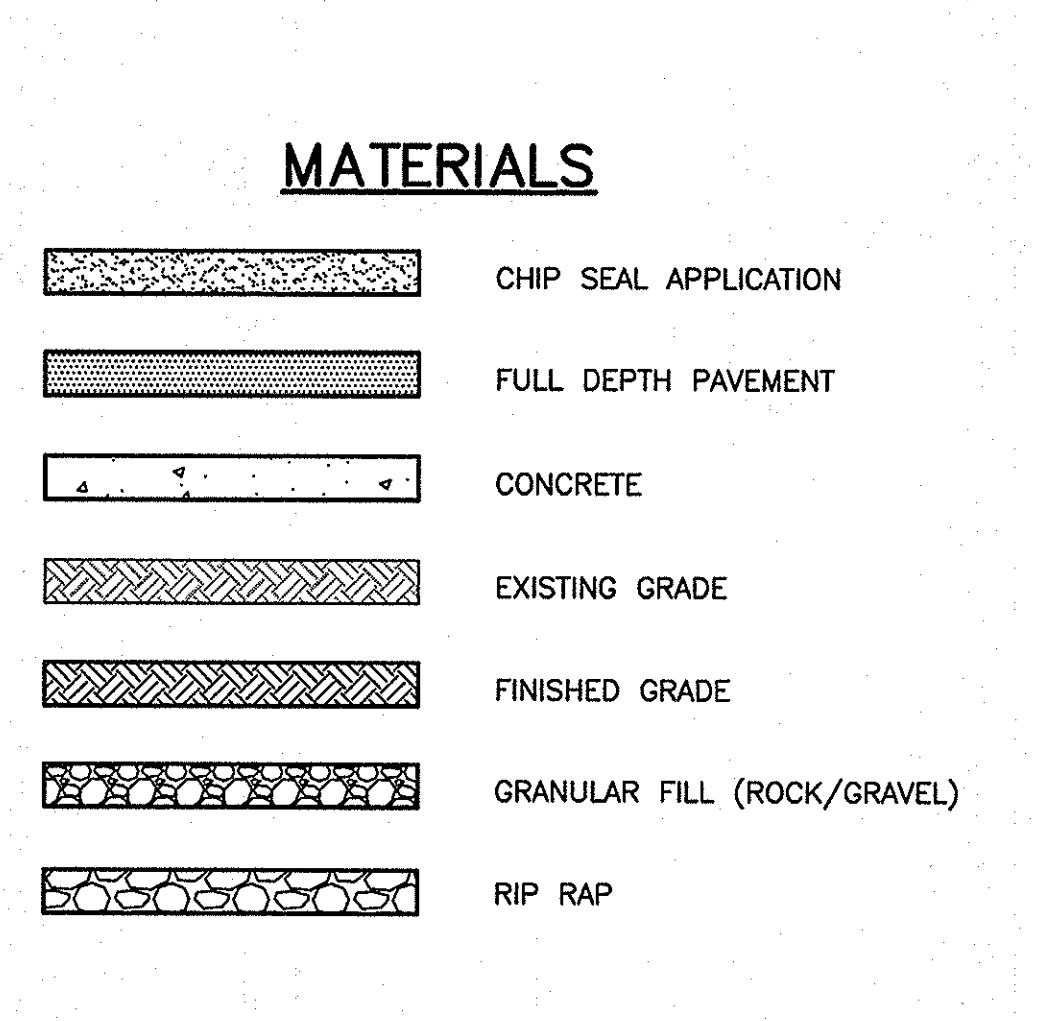
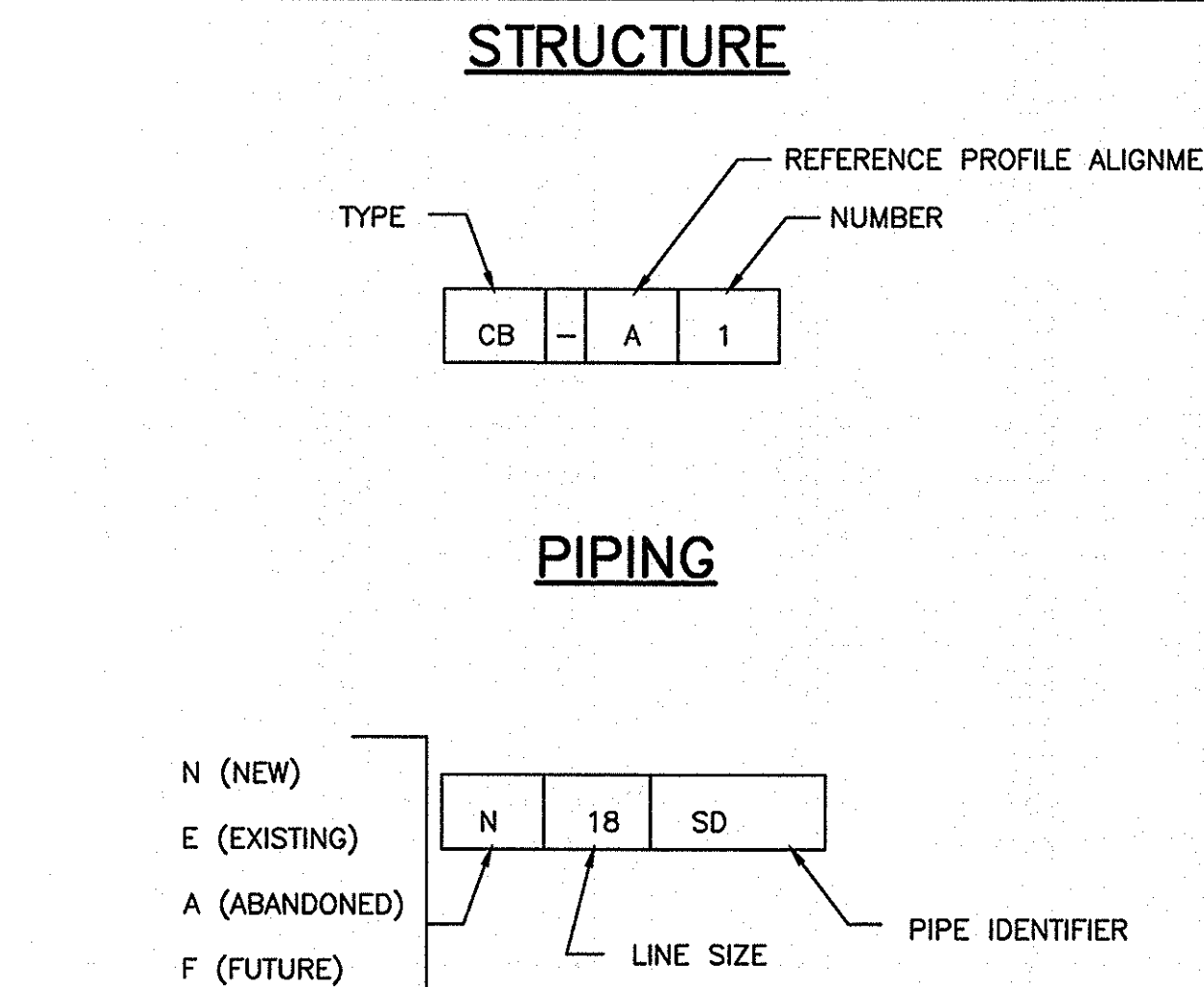
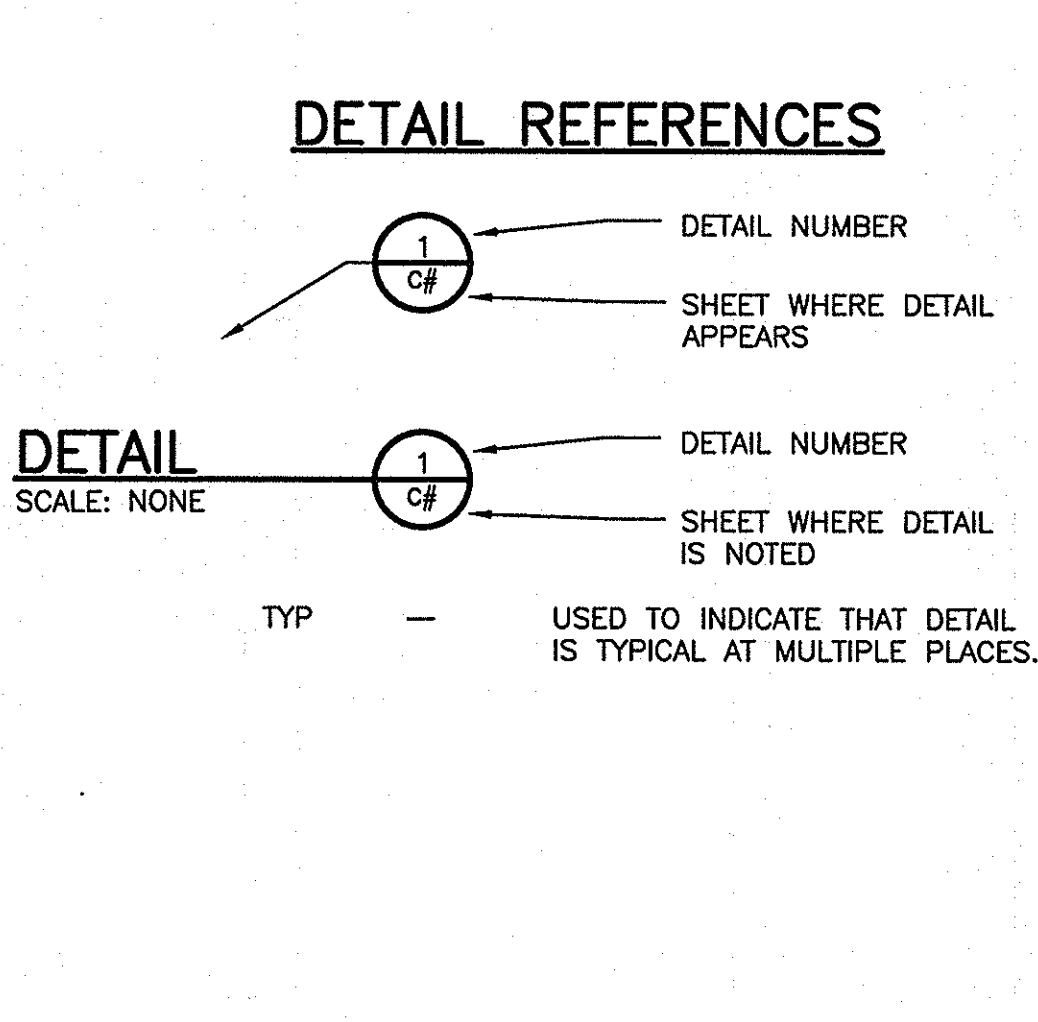
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ABBREVIATION	WORD	F CONT.	S	SCHEDULE
A	AGGR	AGGREGATE	SI	SCHEDULE
AGOR	AND	AND	SL	SEA LEVEL
APPD	APPROX	APPROVED APPROXIMATE	SEC	SECTION
ASPH	ASPH	ASPHALT	SD	STORM DRAIN
AT	AT	AT	SHW	STRAIGHT HEADWALL
AUTH	AUTHORIZED	AUTHORIZED	SIM	SIMILAR
AVE	AVERAGE	AVERAGE	SO	SOUTH
AVG	AZIMUTH	AZIMUTH	SS	SQUARE
AZ			STD	STANDARD
B	BASE LINE	BEARING	STA	STATION
BL	BENCH MARK	BEVELED END SECTION	SUR	SURFACE
BRG	BOTH SIDES	BOTTOM	SY	SQUARE YARD
BES	BOTTOM OF	BOTTOM CHORD	SYM	SYMBOL
BET	BOTTOM CHORD	BOUNDARY	SW	SIDEWALK
BK	BREAK	BREAK	TAN.	TANGENT
BRDG	BRIDGE	BRIDGE	TAPER	TAPER
BLDG	BUILDING	BUILDING	THK	THICK
BV	BALL VALVE	BUTTERFLY VALVE	TIP	TIP
BFV			TOT	TOTAL
			TP	TYPICAL
			UNO	UNLESS NOTED OTHERWISE
			V	VALVE
			V	VARIABLE
			VERT	VERTICAL
			VOL	VOLUME
			WT	WEIGHT
			W	WEST
			W	WIDTH
			W	WITH
			YD	YARD
			YH	YARD HYDRANT
			YI	YARD INLET
			YR	YEAR



NOTES
1. SITES A-C ARE NOT INCLUDED IN THIS PROJECT

OVERALL SITE MAP
NOT TO SCALE



IDENTIFIER	DESCRIPTION
DB	DUCT BANK
DRN	DRAIN
FM	FORCEMAIN
G	GAS
SD	STORM DRAIN
S	SANITARY SEWER
W	WATER

- GENERAL NOTES**
- REFERENCE IS MADE TO THE FOLLOWING:
 - BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED FOR USC UPSTATE BY BP BARBER, DATED NOVEMBER 24, 2009.
 - PARTIAL SITE SURVEY BY BP BARBER, DATED FEBRUARY 15, 2008.
 - BOUNDARY AND TOPOGRAPHICAL SURVEY PREPARED FOR USC UPSTATE BY URS CORPORATION, DATED MARCH 5, 2014.
 - ALL ELEVATIONS SHOWN ARE BASED ON:
 - HORIZONTAL: SOUTH CAROLINA STATE PLANE COORDINATE NAD 83
 - VERTICAL: NAVD 83
 - 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.
 - ALL WORK FOR THE PROJECT SHALL CONFORM TO THE PROJECT SPECIFICATIONS FOUND IN THE PROJECT MANUAL (CONTRACT DOCUMENTS AND SPECIFICATIONS).
 - PROMPTLY INFORM THE ENGINEER OF ANY ERROR OR DISCREPANCY DISCOVERED IN THESE DRAWINGS OR SPECIFICATIONS OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS.
 - 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')	---
CONTOURS (5' & 10')	---
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	CB
DROP INLET	DI
YARD INLET	YI
JUNCTION BOX	JB
SANITARY SEWER	8S
SEWER FORCE MAIN	8FM
SEWER MANHOLE	MH
SEWER VALVE	SV
AIR RELEASE MANHOLE	ARV
SEWER CLEANOUT	CO
WATER LINE	12W
FIRE HYDRANT	FH
WATER METER	WM
WATER VALVE	WV
GAS LINE	2G
GAS VALVE	GV
UNDERGROUND ELECTRIC	UE
OVERHEAD POWER	OHP
SIGN	PP
POWER POLE	PP
GUY WIRE	GP
GUY POLE	GP
LAMP POLE	LMP
SERVICE POLE	SP
LIGHT POLE	LP
ELECTRIC MANHOLE	EMH
ELECTRIC TRANSFORMER	TRN
ELECTRIC BOX	EBOX
UNDERGROUND TELEPHONE	UT
TELEPHONE PEDESTAL	TPED
TELEPHONE MANHOLE	TMH
UNDERGRD. CABLE TV	CTV
CABLE TV PEDESTAL	CTV PED
MAIL BOX	MB
UNDERGRD. FIBER OPTIC LINE	U-FOC

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

CONTRACTOR TO PROVIDE ON-SITE CONCRETE WASHOUT AREA PER DETAIL ON SHEET 13 AND PROPERLY REMOVE AT PROJECT COMPLETION

STATE PROJECT NO.
H34-9544-JM-E

BID DOCUMENTS

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

REVISIONS

NO.	DESCRIPTION	DATE	BY

APPROVALS

PROJECT ENG.	DESIGNED BY	DRAWN BY	CHECKED BY	BET

URSA
101 Research Drive
Columbia, South Carolina 29203
Telephone (803) 254-4400 : Fax (803) 771-6676
www.URSCorp.com

GENERAL NOTES, LEGEND, SYMBOLS, & ABBREVIATIONS

DATE: MARCH 27, 2014 | SCALE: AS SHOWN

URSC
UPSTATE
STREET AND PARKING LOT
MAINTENANCE AND REPAIRS
PREPARED FOR
THE UNIVERSITY OF
SOUTH CAROLINA

STATE PROJECT NO.
H34-9544-JM-E

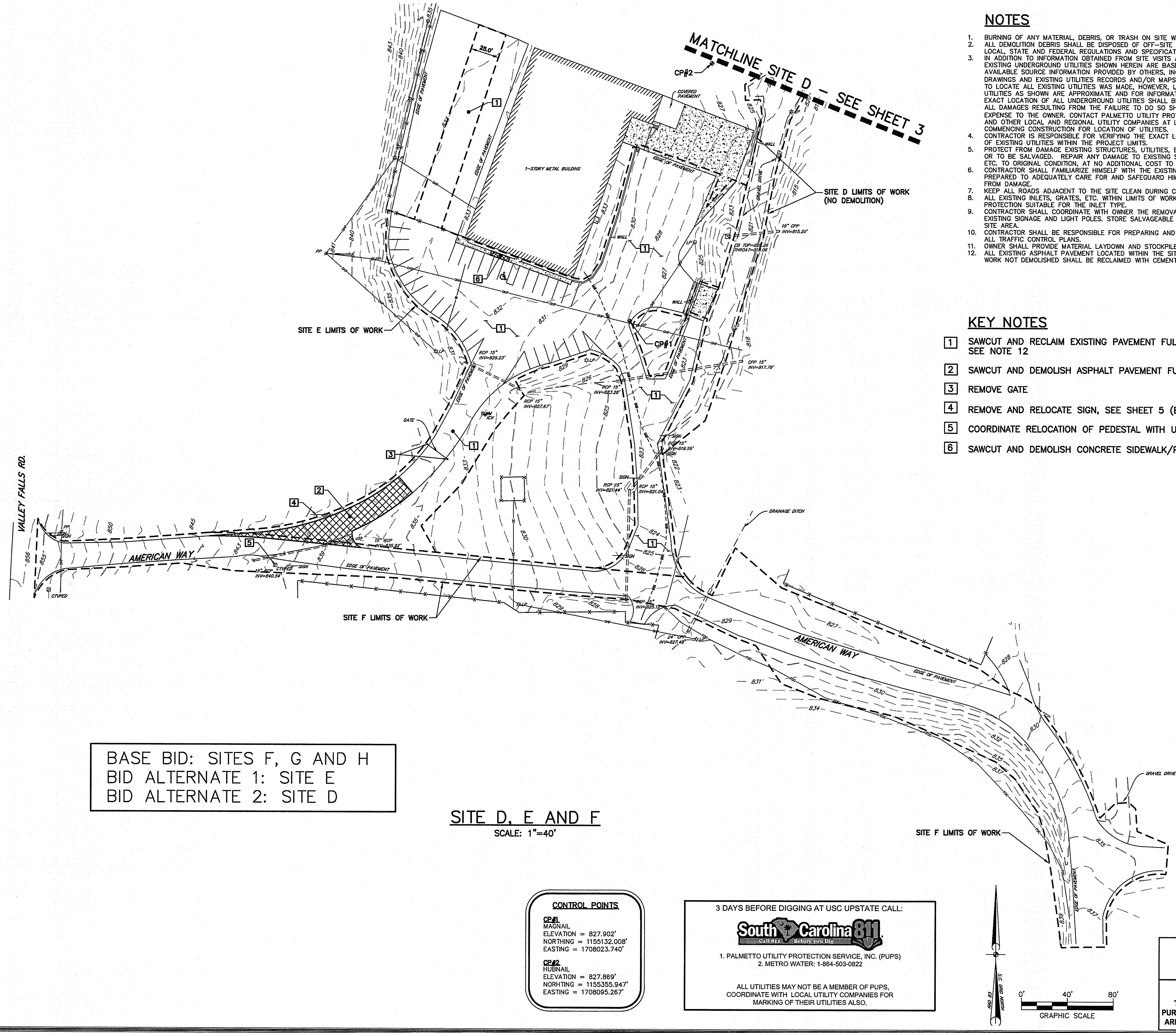
BID DOCUMENTS

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

DWG NAME	SHEET
N.B. NO.	1
REF.	OF
PROJECT NO.	10
46423272	

FILE NO. 36,271-B91

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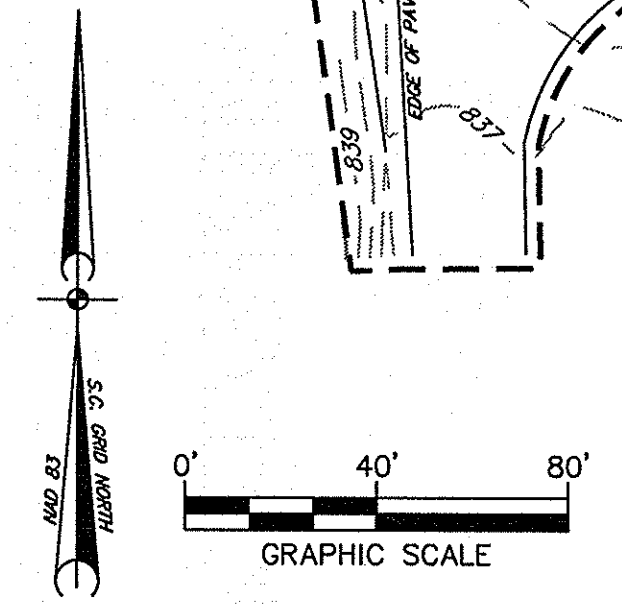
BASE BID: SITES F, G AND H
 BID ALTERNATE 1: SITE E
 BID ALTERNATE 2: SITE D

SITE D, E AND F
 SCALE: 1"=40'

CONTROL POINTS
CP#1
 MAGNAIL
 ELEVATION = 827.902'
 NORTHING = 1155132.008'
 EASTING = 1708023.740'
CP#2
 HUBNAIL
 ELEVATION = 827.869'
 NORTHING = 1155355.947'
 EASTING = 1708095.267'

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.



NOTES

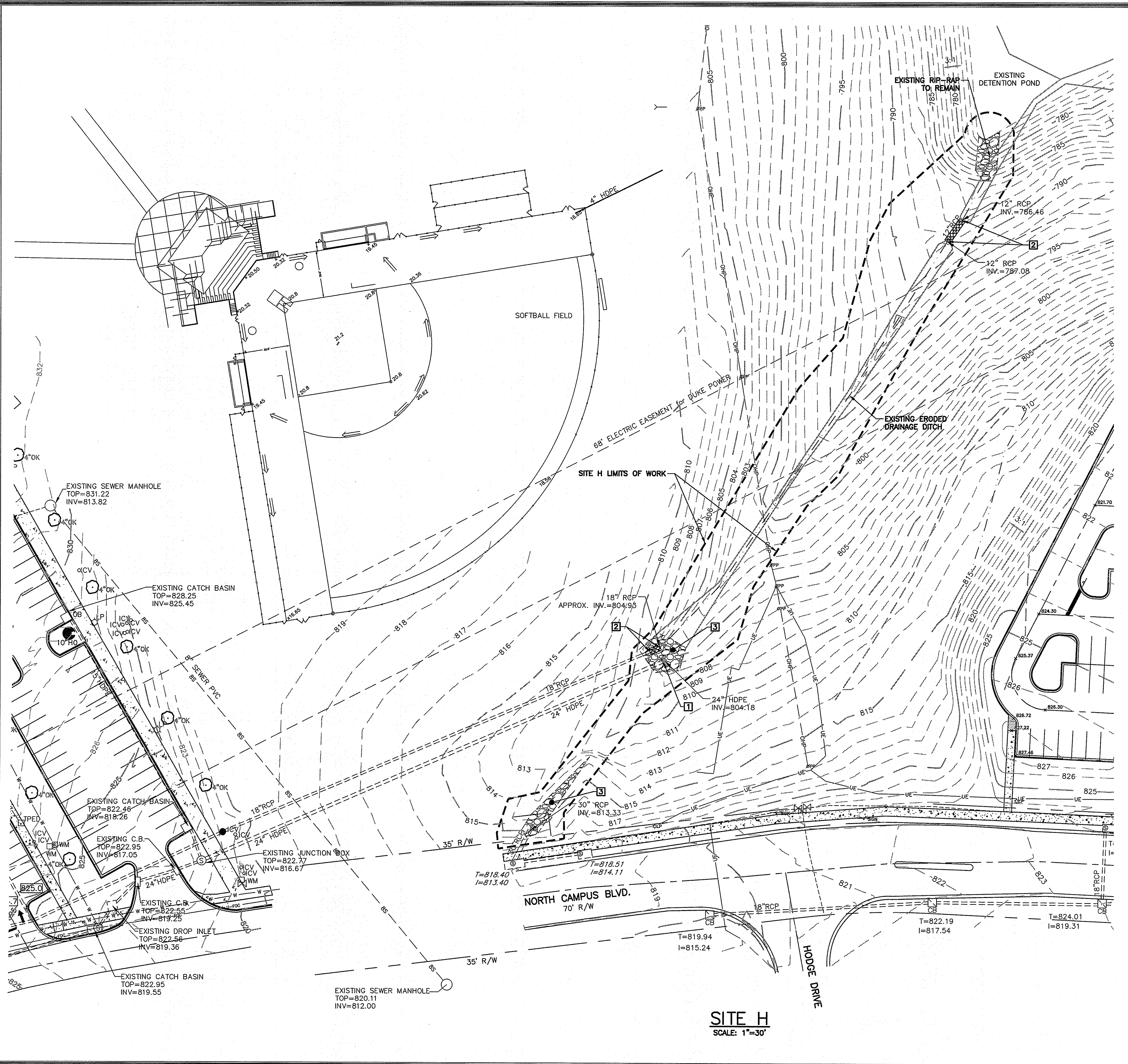
- BURNING OF ANY MATERIAL, DEBRIS, OR TRASH ON SITE WILL NOT BE PERMITTED.
- ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AND SPECIFICATIONS, LATEST REVISION.
- IN ADDITION TO INFORMATION OBTAINED FROM SITE VISITS AND A FIELD SURVEY, 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 COORDINATE WITH OWNER THE REMOVAL AND OR RELOCATION OF EXISTING SIGNAGE AND LIGHT POLES. STORE SALVAGEABLE EQUIPMENT ON APPROVED SITE AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING APPROVAL OF ALL TRAFFIC CONTROL PLANS.
- OWNER SHALL PROVIDE MATERIAL LAYDOWN AND STOCKPILE AREAS ON CAMPUS.
- ALL EXISTING ASPHALT PAVEMENT LOCATED WITHIN THE SITE E AND F LIMITS OF WORK NOT DEMOLISHED SHALL BE RECLAIMED WITH CEMENT.

KEY NOTES

- SAWCUT AND RECLAIM EXISTING PAVEMENT FULL DEPTH WITH CEMENT, SEE NOTE 12
- SAWCUT AND DEMOLISH ASPHALT PAVEMENT FULL DEPTH
- REMOVE GATE
- REMOVE AND RELOCATE SIGN, SEE SHEET 5 (BY OWNER)
- COORDINATE RELOCATION OF PEDESTAL WITH UTILITY PROVIDER
- SAWCUT AND DEMOLISH CONCRETE SIDEWALK/PAVEMENT

REVISIONS NO. DESCRIPTION DATE BY			
APPROVALS PROJECT ENG. DESIGNED BY: M.D.L. M.D.L. DRAWN BY: E.H.M. E.H.M. CHECKED BY: B.E.T. B.E.T. APPROVED: B.E.T.			
 101 Research Drive Columbia, South Carolina 29203 Telephone (803) 254-4400 ; Fax (803) 771-6676 www.URSCorp.com			
SHEET TITLE EXISTING CONDITIONS AND DEMOLITION PLAN SITE D, E AND F DATE: MARCH 27, 2014 SCALE: 1"=40'			
PROJECT USC UPSTATE STREET AND PARKING LOT MAINTENANCE AND REPAIRS PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA SPARTANBURG COUNTY SOUTH CAROLINA			
.DWG NAME N.B. NO.	SHEET 2 OF 10		
REF. PROJECT NO. 46423272	STATE PROJECT NO. H34-9544-JM-E BID DOCUMENTS THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION		
FILE NO. 36,271-891			

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SITE H
SCALE: 1"=30'

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 EDITION. 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.
- 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 COORDINATE WITH OWNER THE REMOVAL AND OR RELOCATION OF EXISTING SIGNAGE AND LIGHT POLES. STORE SALVAGEABLE EQUIPMENT ON APPROVED SITE AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND OBTAINING APPROVAL OF ALL TRAFFIC CONTROL PLANS.

KEY NOTES

- REMOVE EXISTING CONCRETE HEADWALL
- SAWCUT AND REMOVE EXISTING STORM DRAINAGE
- REMOVE RIP-RAP, CONTRACTOR TO PLACE MATERIAL ON POND SLOPE, SEE SHEET 7 FOR LOCATION

3 DAYS BEFORE DIGGING AT USC UPSTATE CALL:

South Carolina 811
Call 811 Before you Dig

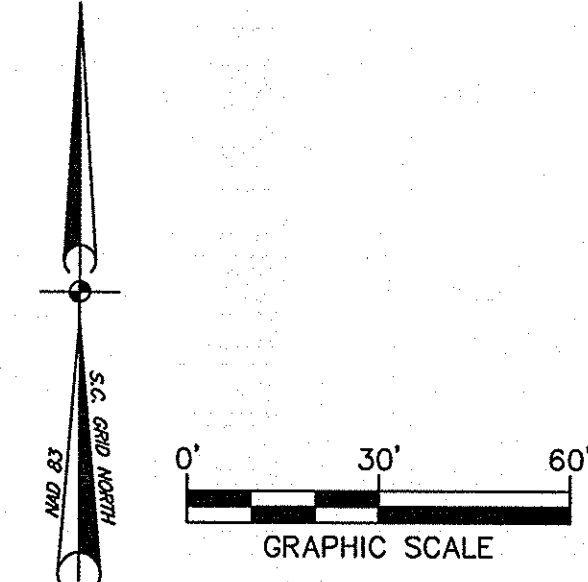
1. PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)
2. METRO WATER: 1-864-503-0822

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

CONTROL POINTS

CP#5
FH BOLT
ELEVATION = 831.34'
NORTHING = 1154484.6153'
EASTING = 1710292.5925'

BASE BID: SITES F, G AND H
 BID ALTERNATE 1: SITE E
 BID ALTERNATE 2: SITE D



REVISIONS	
NO.	DESCRIPTION

APPROVALS

PROJECT ENG. [Signature] DATE []

DESIGNED BY: [Signature] DATE []

DRAWN BY: [Signature] DATE []

CHECKED BY: [Signature] DATE []

APPROVED: [Signature] DATE []

CERTIFICATE OF PROFESSIONAL ENGINEERING

URS CORPORATION
No. 000954

5-7-14

DATE

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 Telephone (803) 254-4400 ; Fax (803) 771-6676
 www.URS Corp.com

SHEET TITLE
EXISTING CONDITIONS AND DEMOLITION PLAN
 SITE H

DATE: MARCH 27, 2014 SCALE: 1"=30'

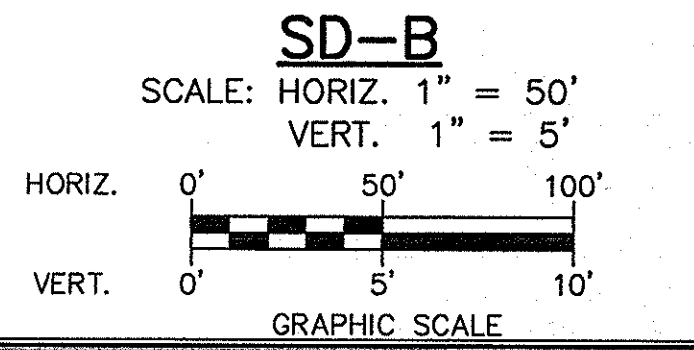
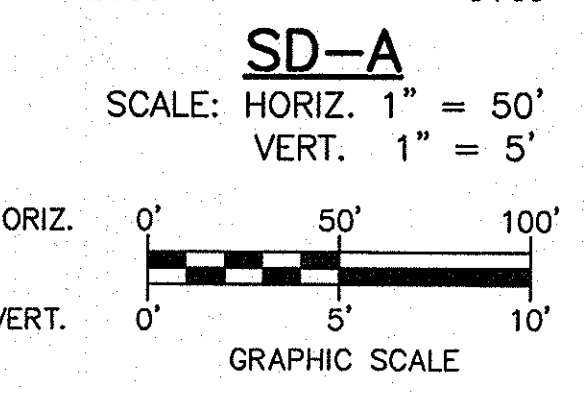
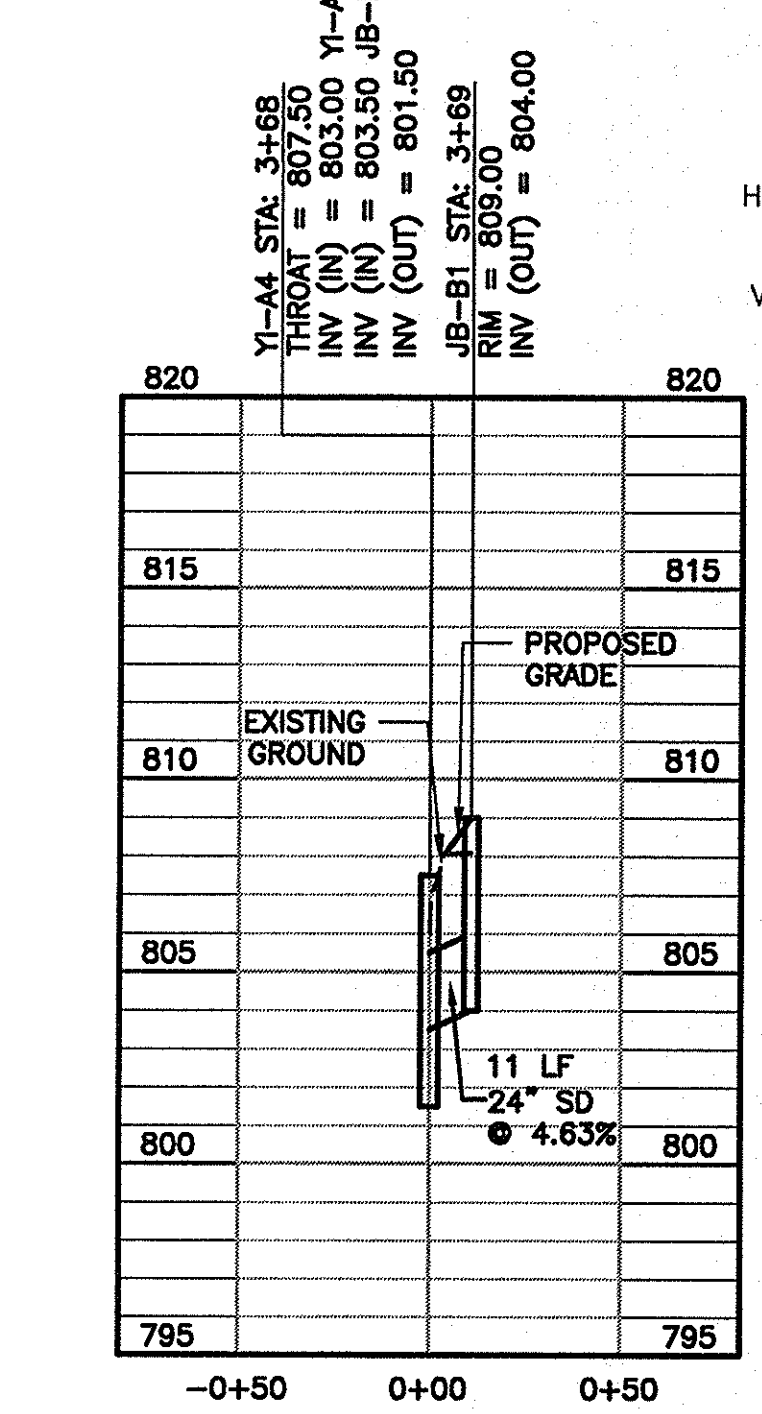
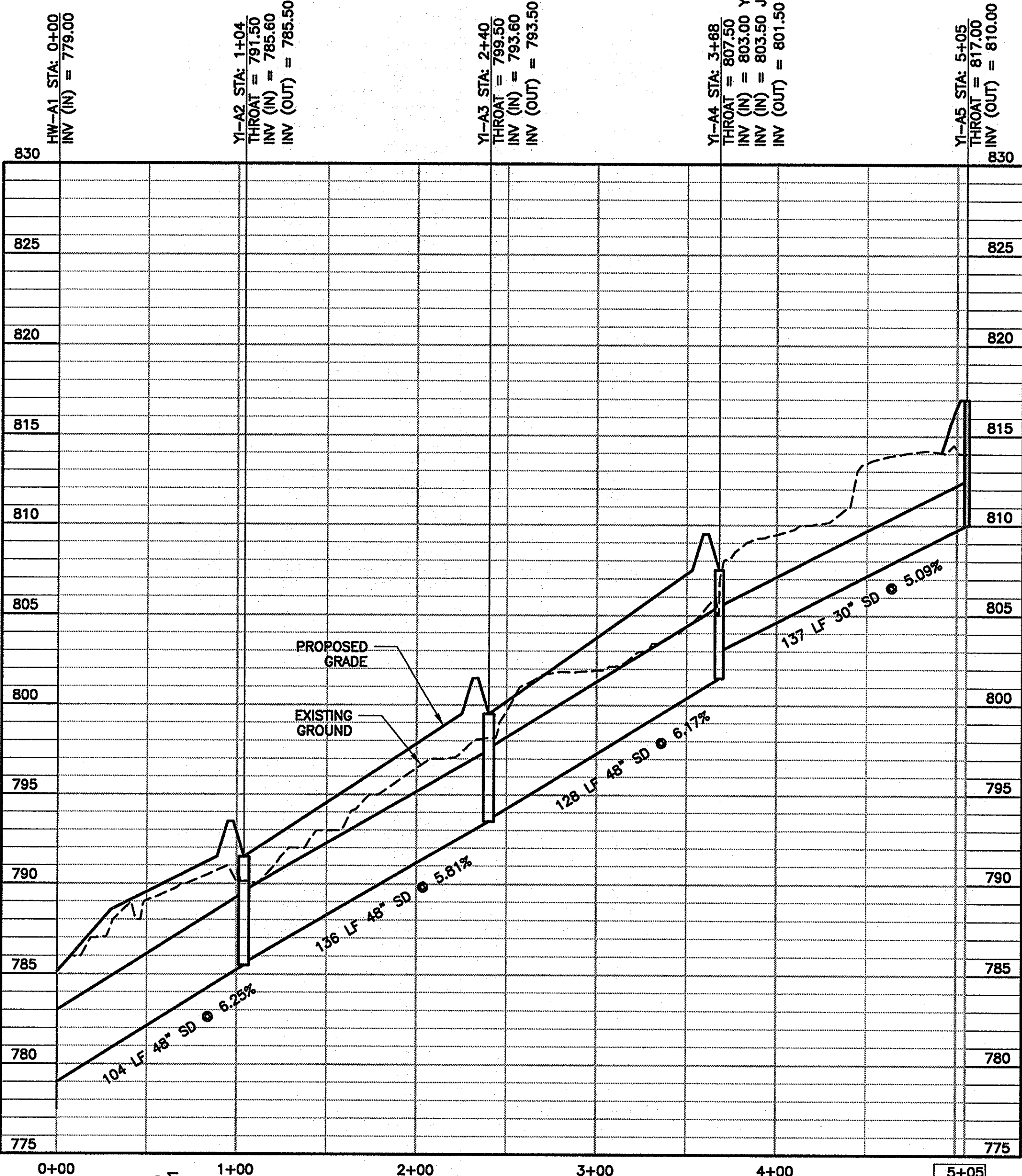
PROJECT
 USC UPSTATE
 STREET AND PARKING LOT
 MAINTENANCE AND REPAIRS
 PREPARED FOR
 THE UNIVERSITY OF
 SOUTH CAROLINA
 SPARTANBURG COUNTY SOUTH CAROLINA

STATE PROJECT NO.
 H34-9544-JM-E

BID DOCUMENTS
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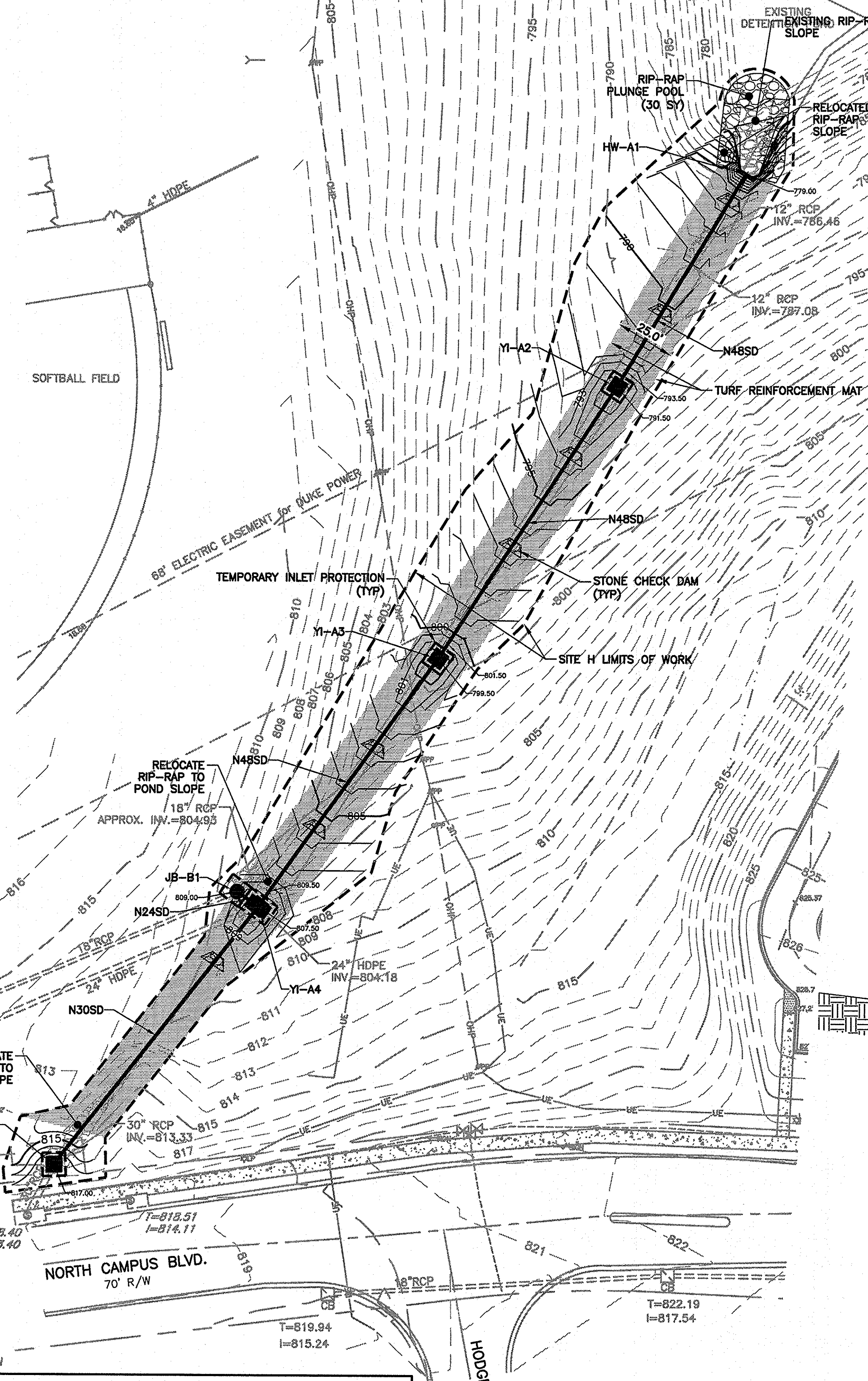
DWG NAME	SHEET
N.B. NO.	4
REF.	OF
PROJECT NO.	10
46423272	
FILE NO.	36,271-B91

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NOTES

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



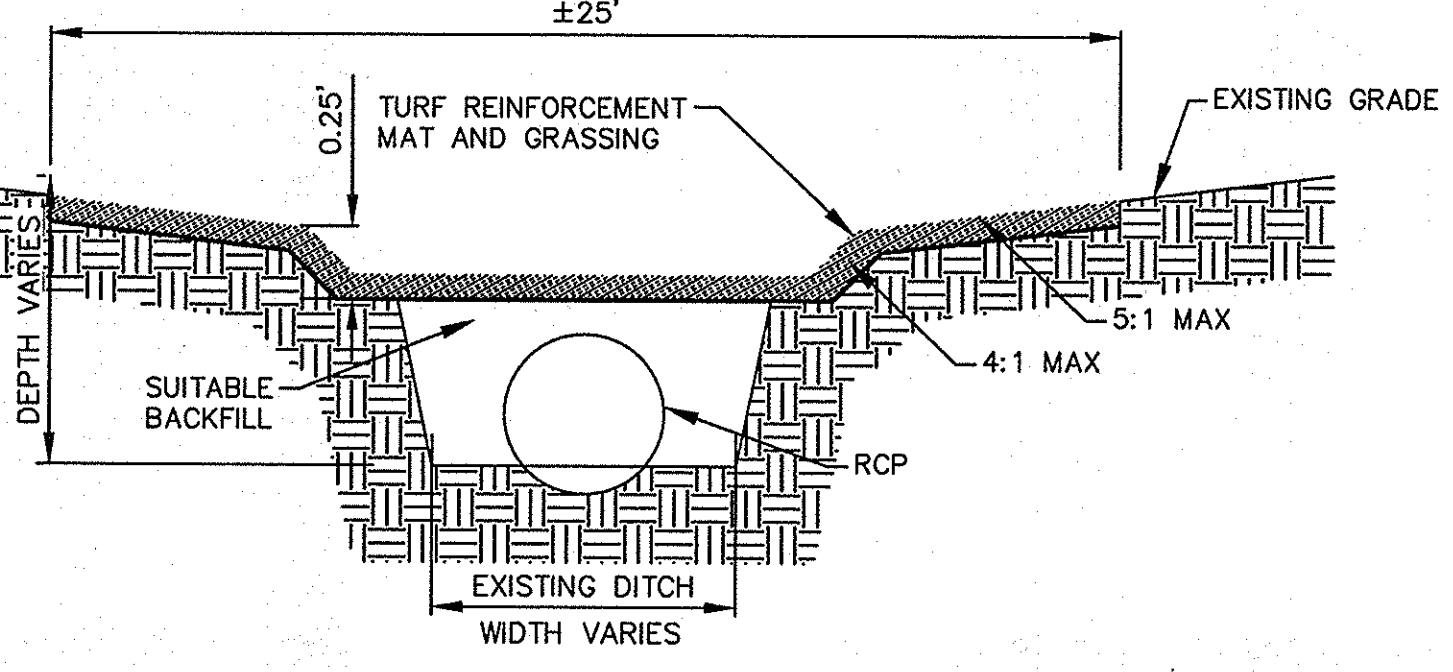
BASE BID: SITES F, G AND H
 BID ALTERNATE 1: SITE E
 BID ALTERNATE 2: SITE D

STAKING NOTES

1. VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY DIFFERING SITE CONDITIONS ARE NOTED.
2. ALL TRAFFIC SIGNS AND PAVEMENTS MARKINGS WITHIN PARKING AREA SHALL MEET ALL REQUIREMENTS OF THE SCOTT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SPARTANBURG COUNTY AND USC UPSTATE REGULATIONS.
3. ALL WORK AND MATERIALS SHALL CONFORM TO SPARTANBURG COUNTY AND SCHEC REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
4. ALL DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
5. RADII ON ALL ISLANDS ARE 5' UNLESS OTHERWISE NOTED.
6. ALL PAVEMENT MARKINGS SHALL BE WHITE UNLESS OTHERWISE NOTED, ADA PAVEMENT MARKINGS SHALL BE BLUE.

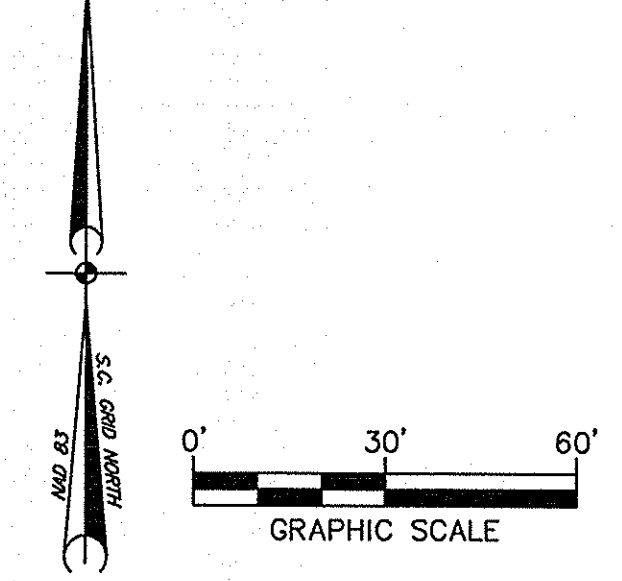
GRADING NOTES

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. BEFORE BEGINNING 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.
4. INSTALL AND MAINTAIN TEMPORARY EROSION CONTROL MEASURES UNTIL STABILIZATION IS ACHIEVED.
5. 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.
6. ALL WORK AND MATERIALS MUST CONFORM TO SPARTANBURG COUNTY AND SCHEC REGULATIONS AND SPECIFICATIONS, LATEST REVISION AT BEGINNING OF CONSTRUCTION.
7. CLEAR ALL BRUSH, STUMPS AND OTHER ORGANIC MATERIAL FROM AREAS TO BE FILLED.
8. REMOVE ALL UNSUITABLE MATERIAL (MUCK OR NON-COMPACTABLE MATERIAL) FROM AREAS TO BE FILLED AS DETERMINED BY ENGINEER.
9. 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.
10. 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.
11. FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.
12. EACH SECTION OF PIPE SHALL BE LAID TO SPECIFIED GRADE AND LAID UPGRADE.
13. KEEP ALL ROADS ADJACENT TO SITE CLEAN DURING CONSTRUCTION.
14. 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.
15. 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.
16. ANY TEMPORARY STOCKPILES SHALL HAVE PERIMETER SILT FENCE INSTALLED AT THE BASE OF THE STOCKPILE.
17. 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.
18. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.
19. REMOVE ALL DEBRIS AND OTHER MATERIAL RESULTING FROM DEMOLITION AND DISPOSE OF OFF SITE UNLESS OTHERWISE APPROVED BY OWNER.
20. 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.
21. GRADES SHOWN ARE FINAL SURFACE ELEVATIONS.
22. ENSURE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES.
23. GRASSING SHALL BE APPLIED TO ALL DISTURBED AREAS NOT STABILIZED WITH ASPHALT, CONCRETE OR LANDSCAPED WITH PLANT MATERIALS.
24. ALL UTILITY BOXES, MANHOLES, VALVES, METER BOXES, INLETS, CLEANOUTS ETC. SHALL BE FIELD ADJUSTED TO MATCH FINISHED GRADE.
25. ALL YARD INLETS, CATCH BASINS, DROP INLETS AND CURB INLETS ARE TO BE STAMPED WITH "NO-DUMPING-DRAINS TO WATERWAY" OR APPROVED EQUAL.



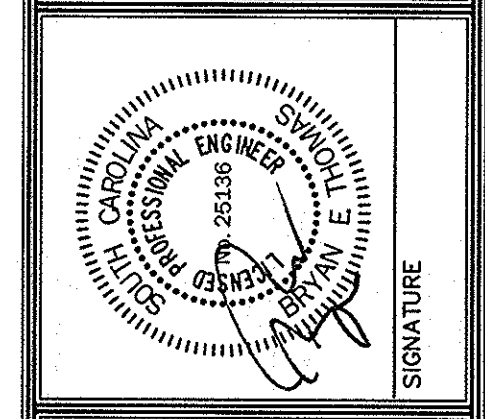
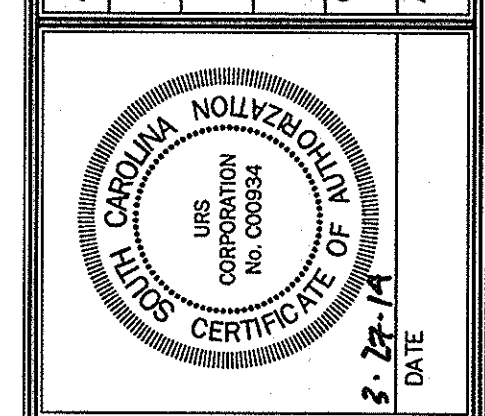
STORM DRAINAGE WITH GRASSED SWALE

DETAIL
SCALE: NONE



REVISIONS	
NO.	DESCRIPTION

APPROVALS	
PROJECT ENG.	DATE



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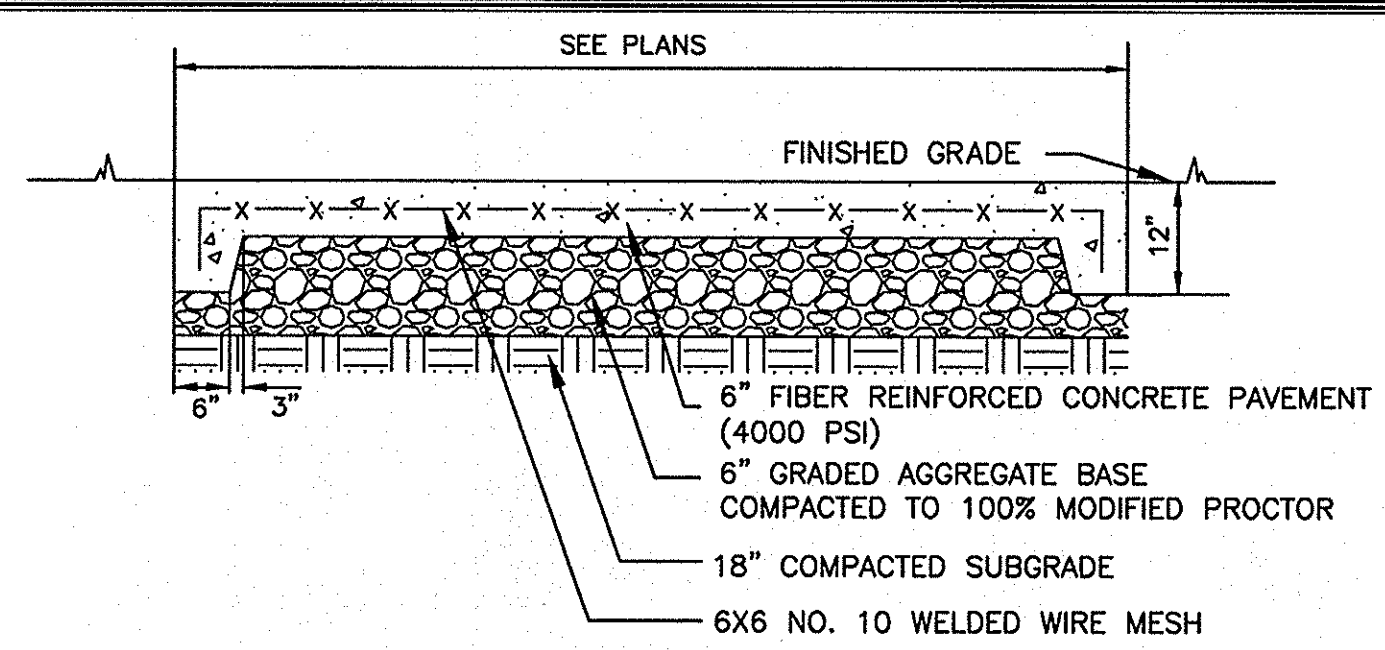
SITE IMPROVEMENT PLAN
 SITE H

USC UPSTATE STREET AND PARKING LOT MAINTENANCE AND REPAIRS PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA SPARTANBURG COUNTY SOUTH CAROLINA

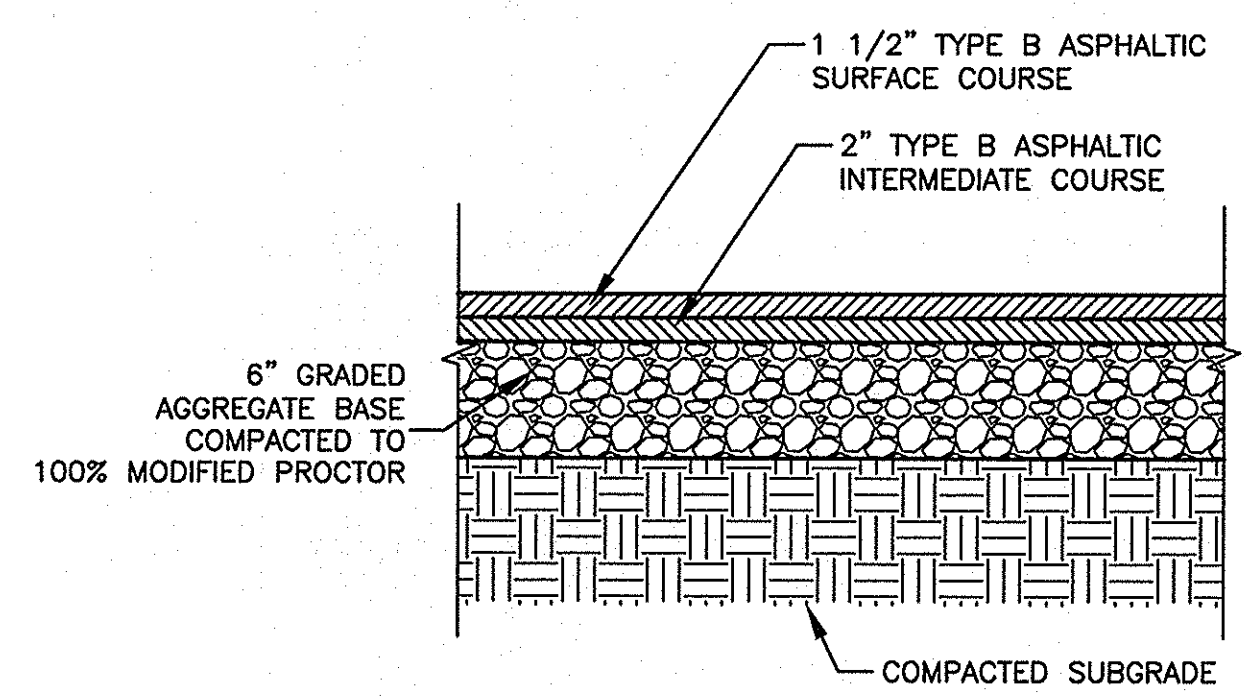
STATE PROJECT NO.
 H34-9544-JM-E
BID DOCUMENTS
 THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

DWG NAME	SHEET
N.B. NO.	7
REF.	OF
PROJECT NO.	10
46423272	
FILE NO.	36,271-891

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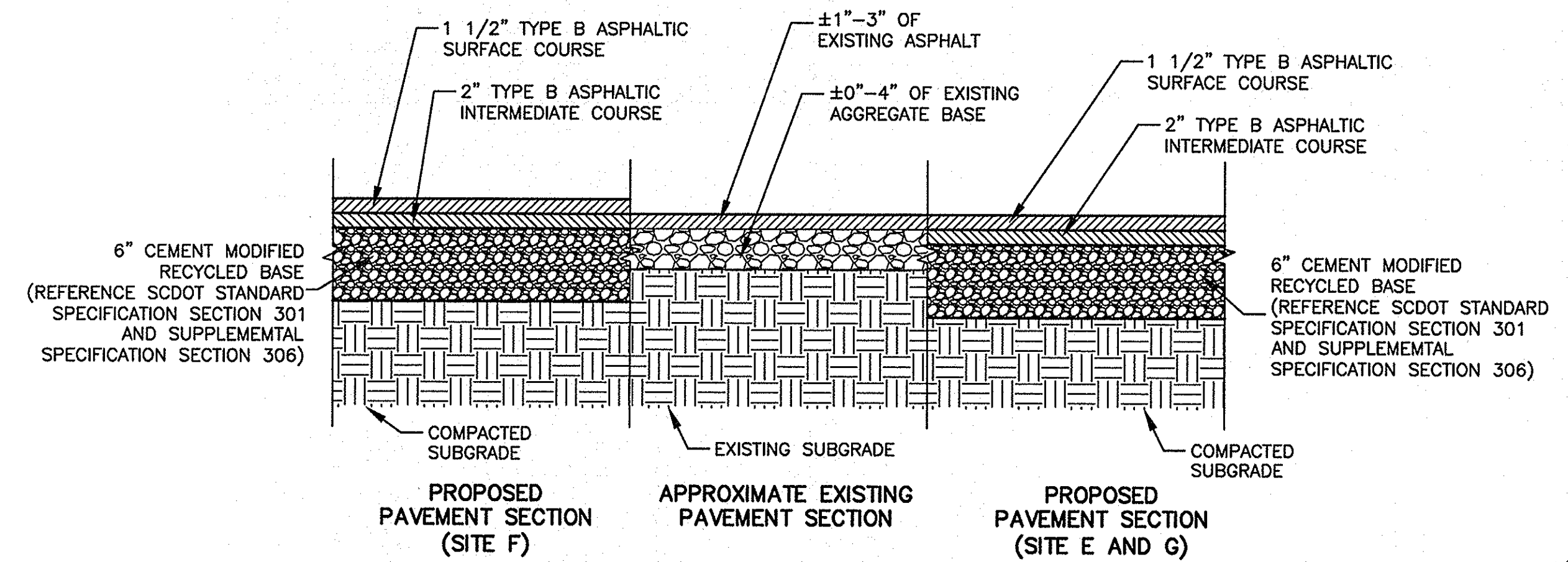


CONCRETE PAVING
 DETAIL 1
 SCALE: NONE



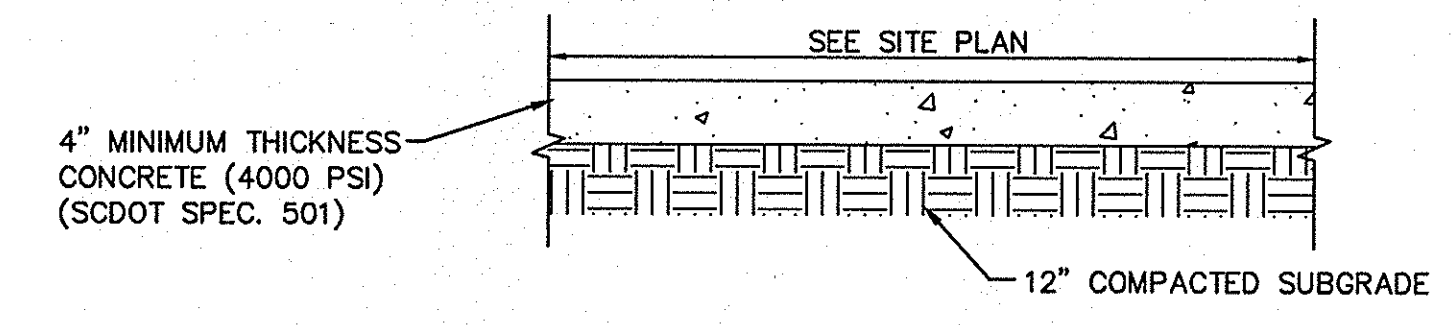
FULL DEPTH ASPHALT PAVEMENT
 DETAIL 2
 SCALE: NONE

NOTES:
 1. ASPHALT THICKNESS NOTED SHALL BE THE FINAL COMPACTED MATERIAL THICKNESS.

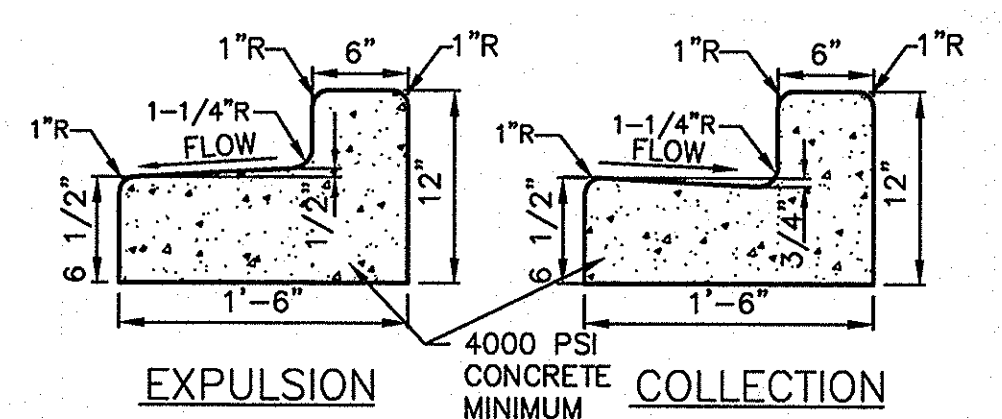


FULL DEPTH RECLAMATION WITH ASPHALT RESURFACING
 DETAIL 3
 SCALE: NONE

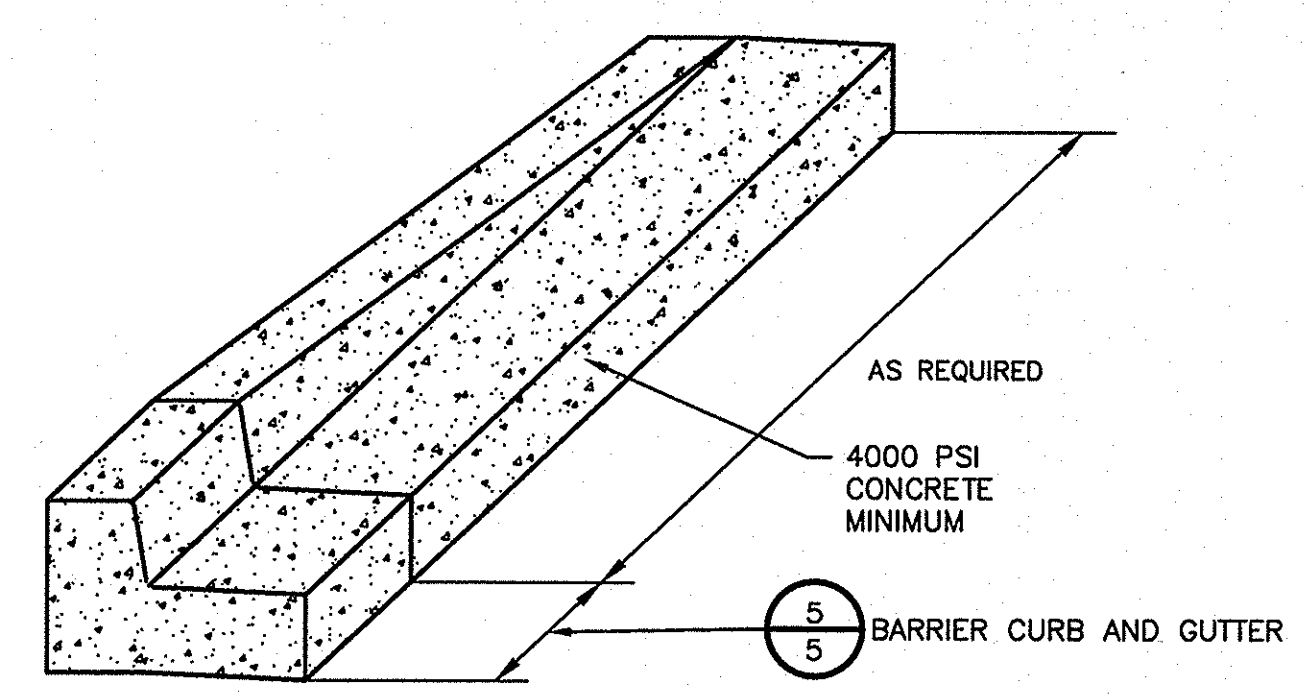
NOTES:
 1. ASPHALT THICKNESS NOTED SHALL BE THE FINAL COMPACTED MATERIAL THICKNESS.
 2. CONTRACTOR SHALL DETERMINE RATE AND MIXTURE OF CEMENT IN THE RECYCLED BASE ACCORDING TO SCDOT SUPPLEMENTAL SPECIFICATION SECTION 306 - CEMENT MODIFIED RECYCLED BASE AND SCDOT STANDARD SPECIFICATION SECTION 301 - CEMENT MODIFIED SUBBASE.



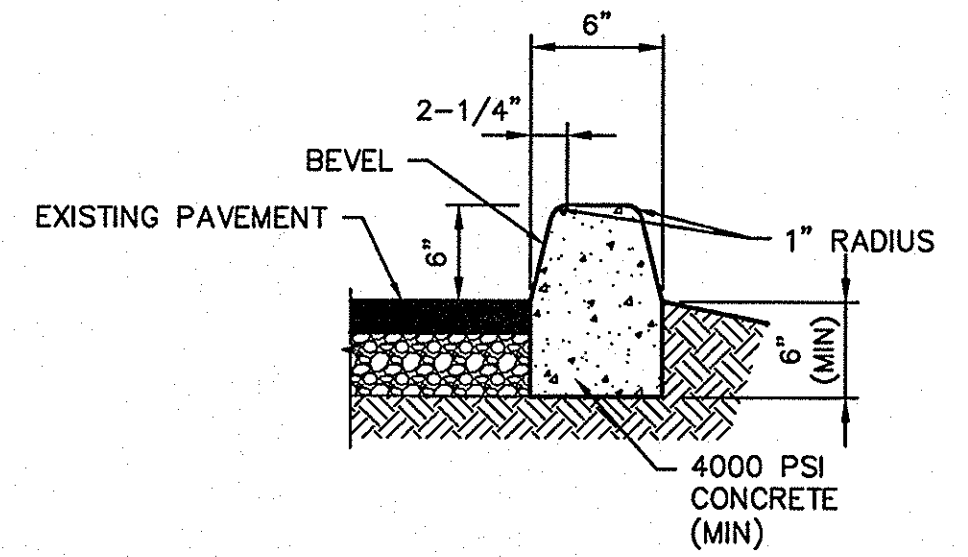
TYPICAL SIDEWALK
 DETAIL 4
 SCALE: NONE



BARRIER CURB AND GUTTER
 DETAIL 5
 SCALE: NONE

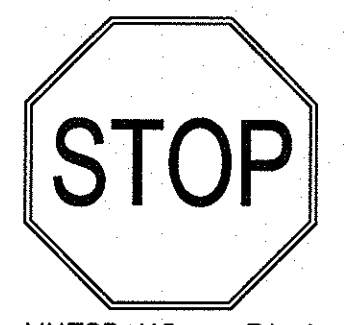


TAPERED CURB
 DETAIL 6
 SCALE: NONE



CONCRETE CURB
 DETAIL 7
 SCALE: NONE

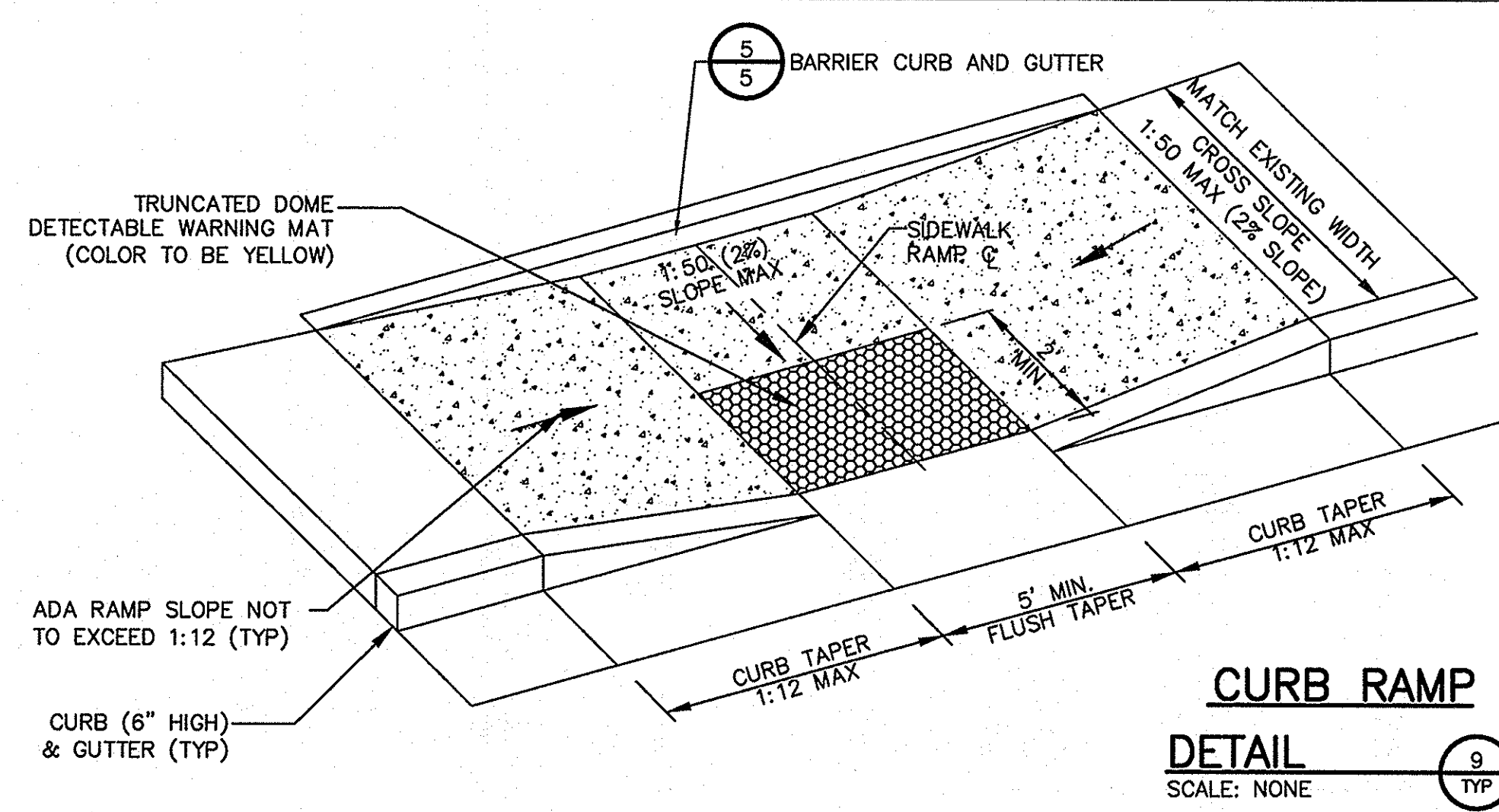
NOTES:
 1. CONSTRUCT CURB IN 10'-0" LENGTHS.
 2. PROVIDE 1/2 INCH EXPANSION JOINT AT INTERVALS NOT TO EXCEED 100'-0" AT THE ENDS AND MIDPOINT OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB ABUTS OTHER CONCRETE STRUCTURES.



SIGNAGE LOCATION NOTES:

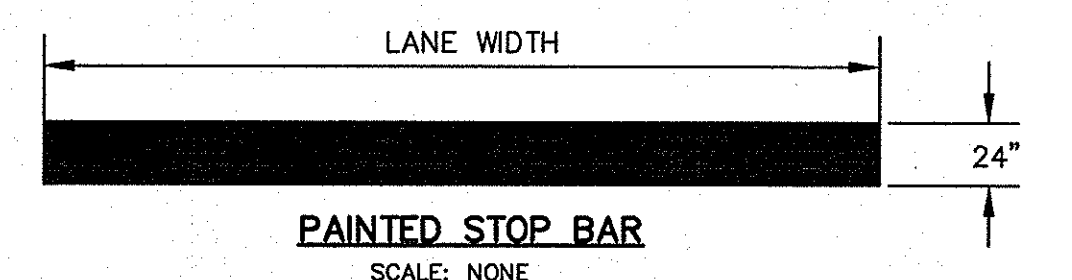
- ALL SIGNAGE SHALL BE INSTALLED A MINIMUM OF 6 FEET FROM EDGE OF PAVEMENT IN RURAL LOCATIONS AND A MINIMUM OF 2 FEET FROM EDGE OF PAVEMENT IN URBAN LOCATIONS.
- FACE ALL SIGNS IN APPROPRIATE DIRECTION.
- ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL MEET ALL REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ROAD SIGNAGE SHALL BE MOUNTED ON GALVANIZED STEEL 2"x2" SQUARE BASE POST. ADA SIGNAGE SHALL BE MOUNTED ON U-POST.
- REFER TO MUTCD REQUIREMENTS FOR MOUNTING HEIGHT.

TRAFFIC SIGN
 DETAIL 8
 SCALE: NONE



CURB RAMP
 DETAIL 9
 SCALE: NONE

- NOTES:
 1. CONSTRUCTION OF ACCESSIBLE CURB RAMP SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
 2. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS TO STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20 (5%).
 3. CURB RAMP SHALL HAVE A DETECTABLE WARNING MAT THAT CONFORMS TO ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 4.29.2 AND EXTENDS THE FULL WIDTH OF CURB RAMP.

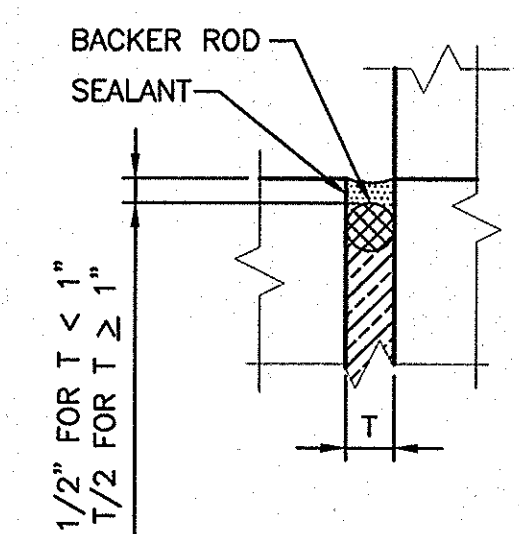


PAINTED STOP BAR
 DETAIL 10
 SCALE: NONE

- NOTES:
 1. ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL MEET ALL REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 2. APPLY ALL ROADWAY STRIPING AND MARKINGS AS TEMPORARY PAINT IMMEDIATELY AFTER APPLICATION OF FINAL SURFACE.
 3. APPLY ALL ROADWAY STRIPING AND MARKINGS AS PERMANENT THERMOPLASTIC WITH REFLECTIVE GLASS SPHERES NOT LESS THAN TWO WEEKS, AND NOT GREATER THAN FOUR WEEKS AFTER APPLICATION OF FINAL SURFACE COURSE.
 4. PARKING SPACE STRIPING MAY BE NON-REFLECTIVE ACRYLIC PAINT.
 5. SEE SCDOT STANDARD DRAWING NO. 625-410-00 AND LATEST REVISIONS AND SUPPLEMENTS FOR "DIRECTIONAL ARROWS" DETAILS.

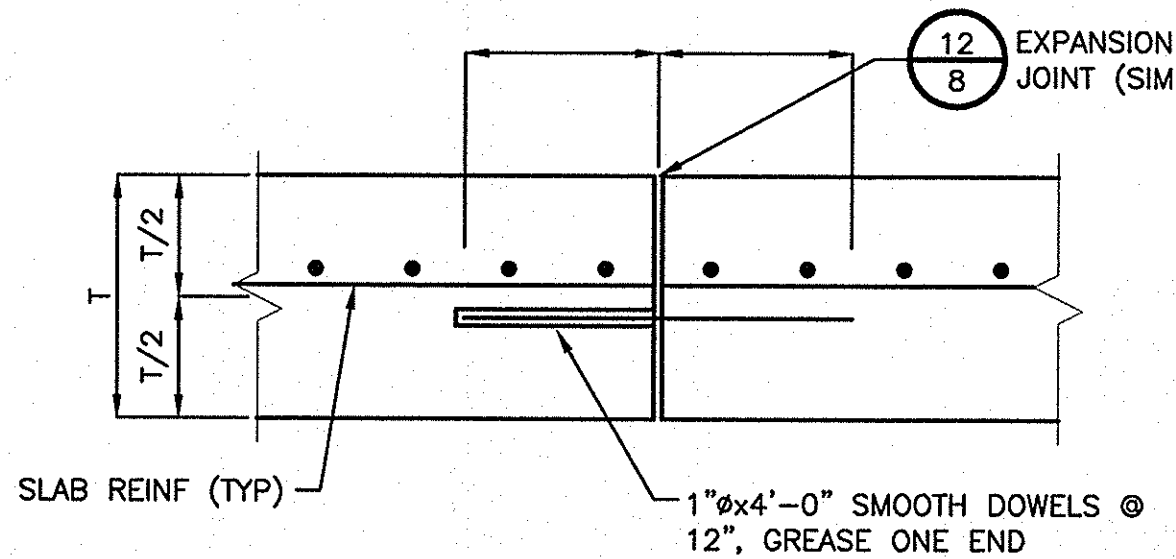
PAVEMENT STRIPING & MARKING STANDARDS

EXPANSION JOINT DETAIL 12
 SCALE: NONE

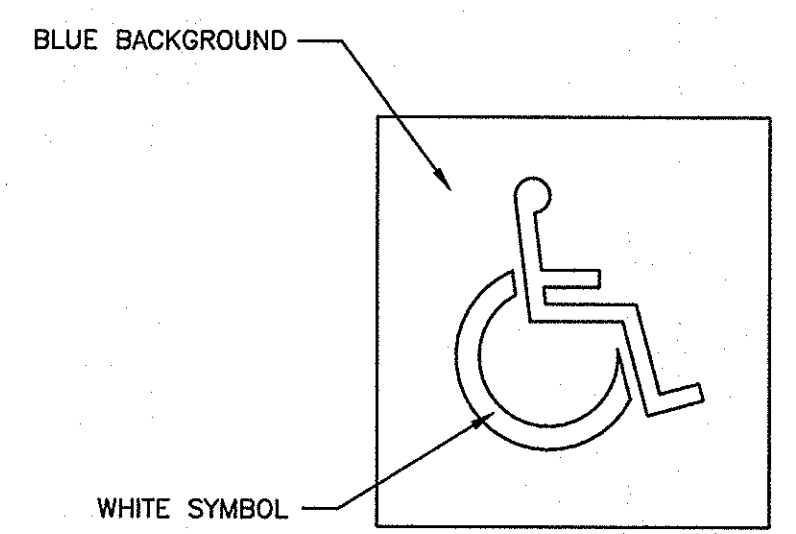


- NOTES:
 1. USE T=1" FOR NEW CONCRETE ADJACENT TO BUILDINGS OR EXISTING SAW-CUT PAVEMENT/CONCRETE.
 2. PROVIDE 1/2" EXPANSION JOINT WHERE CONCRETE PAVING AND SIDEWALK ABUTS ADJACENT STRUCTURES AND DISSIMILAR SURFACES.

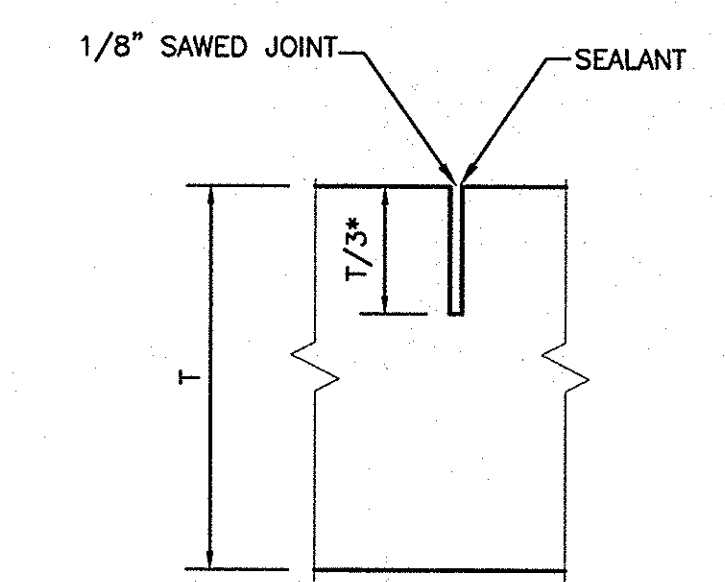
CONSTRUCTION JOINT DETAIL 14
 SCALE: NONE



- NOTES:
 1. JOINTS SHALL BE LOCATED AS SHOWN ON THE PLANS OR 30'-0" OC EW (MAX).



HANDICAP PARKING SYMBOL
 DETAIL 11
 SCALE: NONE



CONTROL JOINT
 DETAIL 13
 SCALE: NONE

- NOTES:
 1. JOINTS SHALL BE LOCATED AS SHOWN ON THE PLANS OR 15'-0" OC EW (MAX).
 2. JOINT DEPTH = 2 1/2" (MAX)

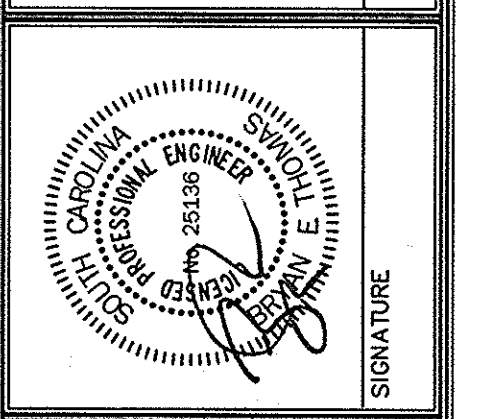
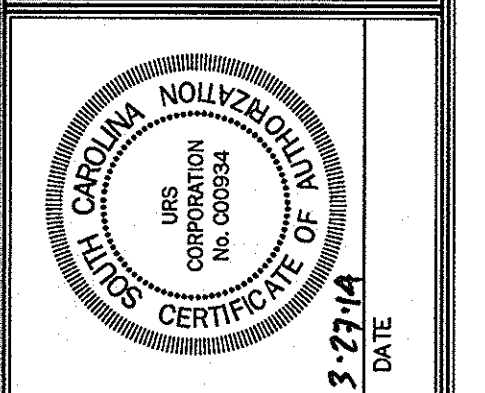
STATE PROJECT NO. H34-9544-JM-E

BID DOCUMENTS

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NO.	REVISIONS	DESCRIPTION	DATE	BY

APPROVALS	PROJECT ENG.	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
	MDJ	MDJ	EJM	BET	BET



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SITE DETAILS
 1 OF 3

PROJECT: USC UPSTATE STREET AND PARKING LOT MAINTENANCE AND REPAIRS PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA SOUTH CAROLINA SPARTANBURG COUNTY

DWG NAME	SHEET
N.B. NO.	8
REF.	OF
PROJECT NO.	10
46423272	
FILE NO.	36,271-B91

SEDIMENT AND EROSION CONTROL NOTES

GENERAL NOTES

- ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM.
- CONTRACTOR SHALL, FOR ALL GRASSED AREAS, BE RESPONSIBLE FOR REPLACING ERODED SOIL AND GRASS SEED UNTIL AN APPROVED STAND OF GRASS IS ESTABLISHED.
- CONTRACTOR SHALL, BEFORE BEGINNING GRADING WORK ON SITE, STAKE SILT FENCE AND INSTALL ALL PERIMETER CONTROLS AS SHOWN ON THIS PLAN.
- CONTRACTOR SHALL BE AWARE OF EXISTING UTILITY LINES DURING PIPE LINE INSTALLATION. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES SUCH AS THE LOCAL ELECTRIC COMPANY, AT&T, ETC. FOR LOCATION OF OTHER UTILITIES NOT SHOWN ON PLAN. CALL PALMETTO UTILITIES PROTECTION SERVICES (888-721-7877) FOR UNDERGROUND UTILITY LINES LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- PROMPTLY INFORM THE ENGINEER OF ANY ERROR OR DISCREPANCIES DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS OR CONFLICTS BETWEEN THE DRAWING AND SPECIFICATIONS IN ORDER FOR CORRECTIONS TO BE MADE.
- ALL WORK AND MATERIALS MUST CONFORM WITH SPARTANBURG COUNTY REGULATIONS AND SPECIFICATIONS, LATEST REVISIONS AT THE BEGINNING OF CONSTRUCTION.
- ALL NEWLY CONSTRUCTED SLOPES WHICH ARE STEEPER THAN 2.5 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. EQUAL PRODUCTS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- PROVIDE A TEMPORARY STONE SPLASH PAD AT ALL FIRE HYDRANTS OR OTHER POINTS OF DISCHARGE DURING REPAIRING OF DISTRIBUTION SYSTEM.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES AS MAY BE REQUIRED TO CONTROL SOIL EROSION DURING OFF SITE UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
- ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- INSTALL PERMANENT VEGETATIVE COVER AND THE LONG-TERM EROSION PROTECTION MEASURES OR STRUCTURES AS SOON AS PRACTICAL IN THE DEVELOPMENT PROCESS.
- PROVIDE FOR HANDLING OF THE INCREASED RUNOFF CAUSED BY CHANGED SOIL AND SURFACE CONDITIONS. USE EFFECTIVE MEANS TO CONSERVE EXISTING ON-SITE SOIL INCLUDING THE USE OF DIVERSION DITCHES, GRASSED WATERWAYS AND STORM SEWERS.
- PLACE SILT FENCE BARRIERS AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT BARRIERS SHALL BE MAINTAINED IN PLACE AND IN GOOD CONDITION UNTIL GROUND COVER IS ESTABLISHED. SILT FENCE SHALL BE CLEANED OR REPLACED WHEN SILT ACCUMULATION REACHES 1/3 THE HEIGHT OF THE FENCE. SEDIMENT SHALL BE RESPAVED ON-SITE.
- ALL DISTURBED AREAS NOT PAVED SHALL BE GRASSED OR LANDSCAPED. USE TEMPORARY PLANT COVER, MULCHING, AND/OR STRUCTURES TO CONTROL RUNOFF AND PROTECT AREA SUBJECT TO EROSION DURING CONSTRUCTION.
- ALL SEDIMENT AND EROSION CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD. MAINTENANCE OF SEDIMENT TRAPPING SHALL BE PERFORMED AS NECESSARY PER THESE INSPECTIONS. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY.
- ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION TO CONTROL EROSION AND/OR OFF SITE SEDIMENTATION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STABILITY OF ALL GRADED AND/OR CLEARED AREAS UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ANY AREAS DAMAGED BY EROSION SHALL BE REPAIRED TO ITS ORIGINAL CONDITION AND PROTECTED FROM FURTHER EROSION AT NO ADDITIONAL COST TO THE OWNER.
- 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. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETED AND THE SITE STABILIZED.

GRASSING NOTES

GRASSING NOTES

- SEED THESE AREAS IMMEDIATELY UPON COMPLETION OF GRADING OR CONSTRUCTION AND CLEAN-UP OPERATIONS.
- SLOPES GREATER THAN FOUR HORIZONTAL TO ONE VERTICAL.
- UTILITY RIGHTS-OF-WAY ADJACENT TO STREAM BANKS.
- AREAS READY FOR PLANTING BETWEEN AUGUST 16 AND FEBRUARY 28 SHALL BE PLANTED WITH A TEMPORARY COVER OF SCHEDULE NO. 2. AT THE ACCEPTABLE SEASONS FOR PLANTING SCHEDULE NO. 1, THE TURF SHALL BE DESTROYED BY REWORKING THE SOIL, AND SCHEDULE NO. 1 SEEDING ESTABLISHED AS SPECIFIED HEREIN.
- USE RATE A LBS. PER 1000 SQ. FT. ON SLOPES OVER 5' HORIZONTAL TO 1' VERTICAL IN HEIGHT AND USE RATE B LBS. PER 1000 SQ. FT. ON SLOPES LESS THAN 5' HORIZONTAL TO 1' VERTICAL.
- SEE GRASSING SPECIFICATIONS (SECTION 02930) FOR ADDITIONAL REQUIREMENTS.

GRASSING SCHEDULES:

GRASSING SCHEDULE NO. 1 - PLANTING DATES MARCH 1 TO AUGUST 15:

COMMON NAME OF SEED	RATE A	RATE B
RYE GRAIN	1	1
COMMON BERMUDA (HULLED)	0	1.5
SERICEA LESPEDEZA (CLAY SOILS)	1	0
WEeping LOVE GRASS (SANDY SOILS)	1	0
CENTPEDE	0.5	0.5
FERTILIZER	18-25	18-25

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

COMMON NAME OF SEED	RATE A	RATE B
RYE GRAIN	0	1
COMMON BERMUDA (HULLED)	0	1.5
BROWN TOP MILLET	5	0
COMMON BERMUDA (UNHULLED)	0	2.0
FERTILIZER	18-25	18-25

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

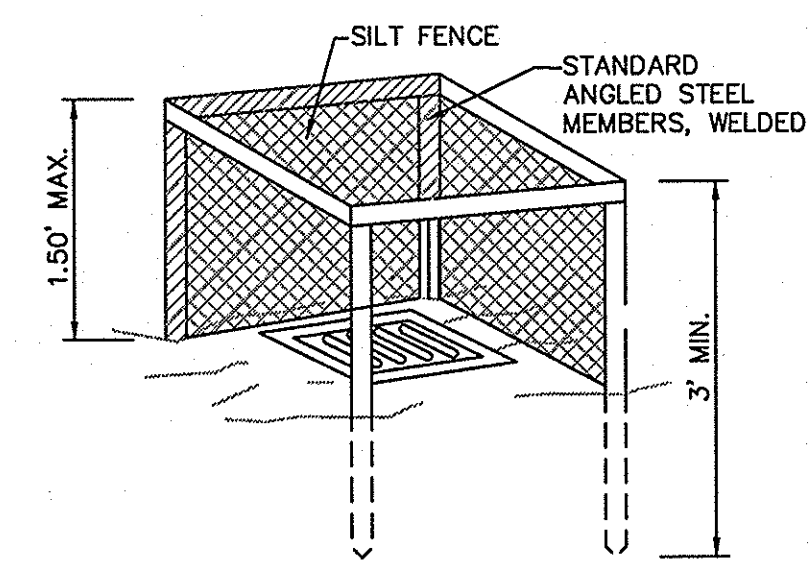
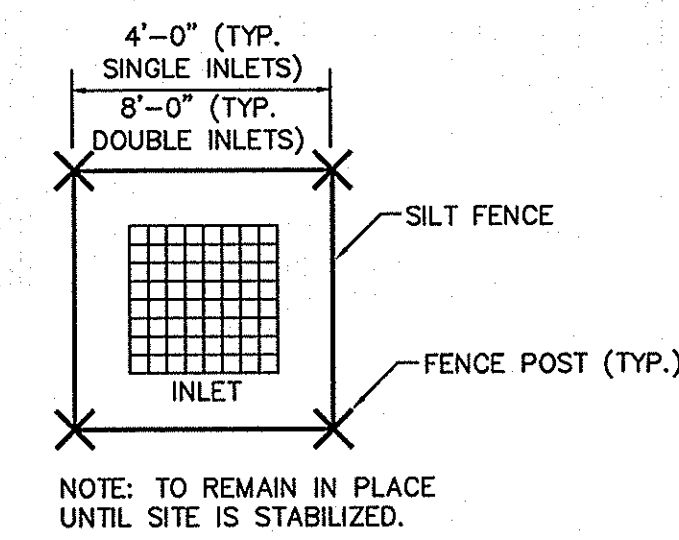
ALL SEDIMENT AND EROSION CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS. CONTRACTOR TO DOCUMENT WITH SCDHEC APPROVED INSPECTION REPORTS AND LOGGED IN THE PROJECT SWPPP.

STANDARD NOTES:

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERM MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, & EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT & EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 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 DISCHARGED INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES & ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS & THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THE REQUIREMENTS FOR CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET. SEQ. AND SCRI00000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED. 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.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, & BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) & CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTION RECORDS & RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, & WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION &, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT & VEHICLE WASHING, WHEEL WASH WATER & OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES & EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT/CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS & OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE & EQUIPMENT OPERATION & MAINTENANCE;
 - SOAPS OR SOLVENTS USED IN VEHICLE & EQUIPMENT WASHING
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK & MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE 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.
- CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED BY SPARTANBURG COUNTY AND SCDHEC.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH SPARTANBURG COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER CALLING SPARTANBURG COUNTY AT 864-595-5320 TO SCHEDULE THIS MEETING.

CONSTRUCTION AND EROSION AND SEDIMENT CONTROL SEQUENCE

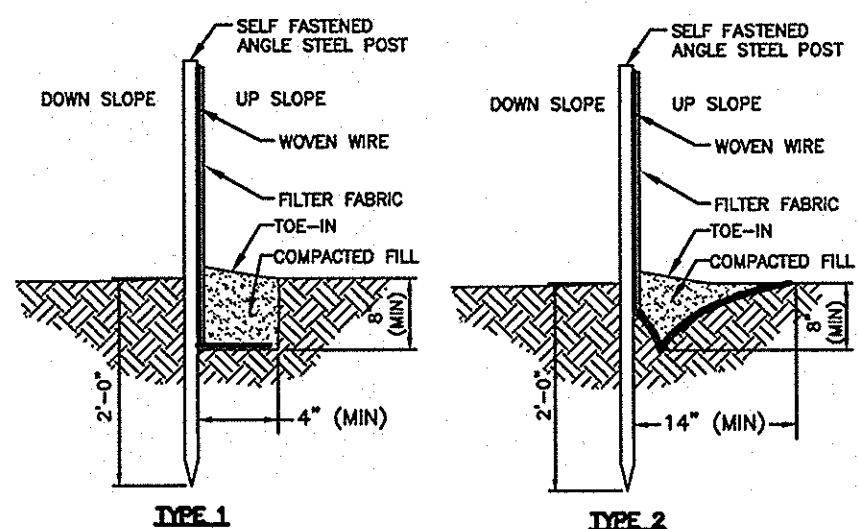
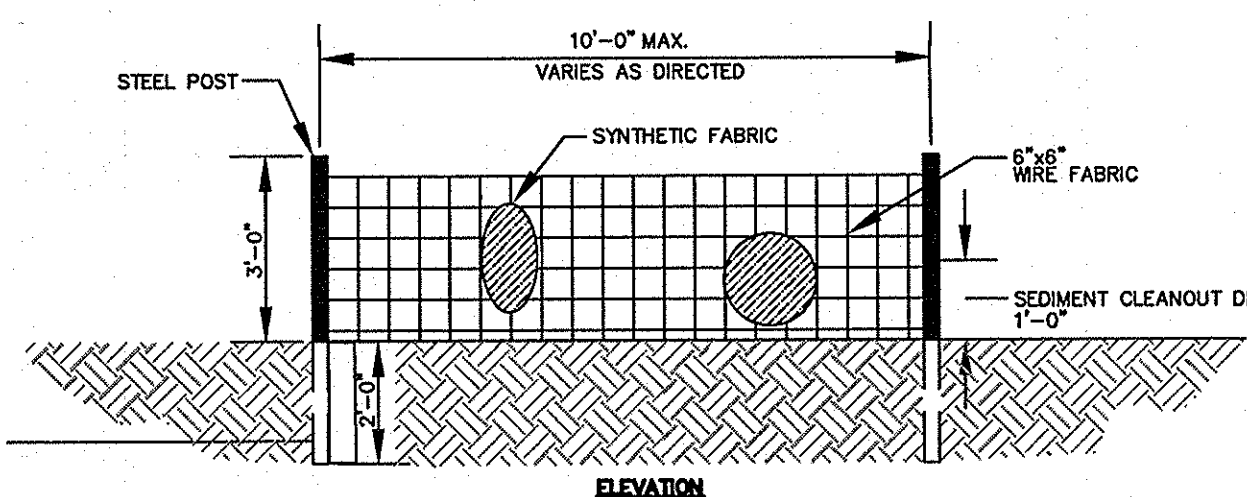
- RECEIVE NOTIFICATION OF NPDES COVERAGE FROM SPARTANBURG COUNTY AND SCDHEC. COORDINATE PRE-CONSTRUCTION MEETING ON-SITE AND NOTIFY SPARTANBURG COUNTY OFFICE AT LEAST 48 HOURS IN ADVANCE OF LAND DISTURBING ACTIVITIES.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, RAIN GAUGE AND PERIMETER SOIL EROSION CONTROL MEASURES. BEGIN PERFORMING WEEKLY SCDHEC SWPPP INSPECTIONS UNTIL SITE IS PERMANENTLY STABILIZED.
- PERFORM DEMOLITION OPERATIONS AS SHOWN ON THE PLANS AND CLEAR AND GRUB SITE IN THE AREAS TO BE DEVELOPED. REMOVE AND DISPOSE OF ITEMS OFFSITE AS APPROPRIATE.
- STRIP AND STOCKPILE TOPSOIL AND STABILIZE STOCKPILES AS NOTED IN THE PLANS AND SPECIFICATIONS.
- PERFORM GRADING OPERATIONS ON THE SITE. INSTALL STORM DRAINAGE IN CONJUNCTION WITH GRADING.
- INSTALL EROSION CONTROL DEVICES AS REQUIRED OR NEEDED AS STORM DRAINAGE STRUCTURES AND THE SITE ARE EXTENDED TO FINISHED GRADE.
- STOCKPILE UNUSED MATERIAL AND STABILIZE AS NOTED ON THE PLANS AS CONSTRUCTION PROGRESSES.
- CONSTRUCT REMAINDER OF THE SITE IMPROVEMENTS.
- APPLY TOPSOIL AND INITIATE PERMANENT VEGETATIVE STABILIZATION MEASURES AS FINAL GRADE IS REACHED IN AREAS TO REMAIN UNDEVELOPED.
- INSPECT AND MAINTAIN ALL STORMWATER CONTROLS AND SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE SITE IS COMPLETELY STABILIZED.
- UPON COMPLETE STABILIZATION OF SITE, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AND REMOVE SEDIMENT BUILDUP FROM THE STORMWATER SYSTEM.
- SUBMIT TO THE ENGINEER AN AS-BUILT FIELD SURVEY OF ALL STORMWATER IMPROVEMENTS INCLUDING BUT NOT LIMITED TO PIPES, STRUCTURE LOCATIONS, INVERTS, RIM/GRADE ELEVATIONS, DETENTION/RETENTION PONDS, EMERGENCY SPLIT STRUCTURES.
- SUBMIT NOTICE OF TERMINATION (NOT) TO SCDHEC AS APPROPRIATE (BY ENGINEER).



TEMPORARY INLET PROTECTION - FILTER FABRIC

DETAIL 1

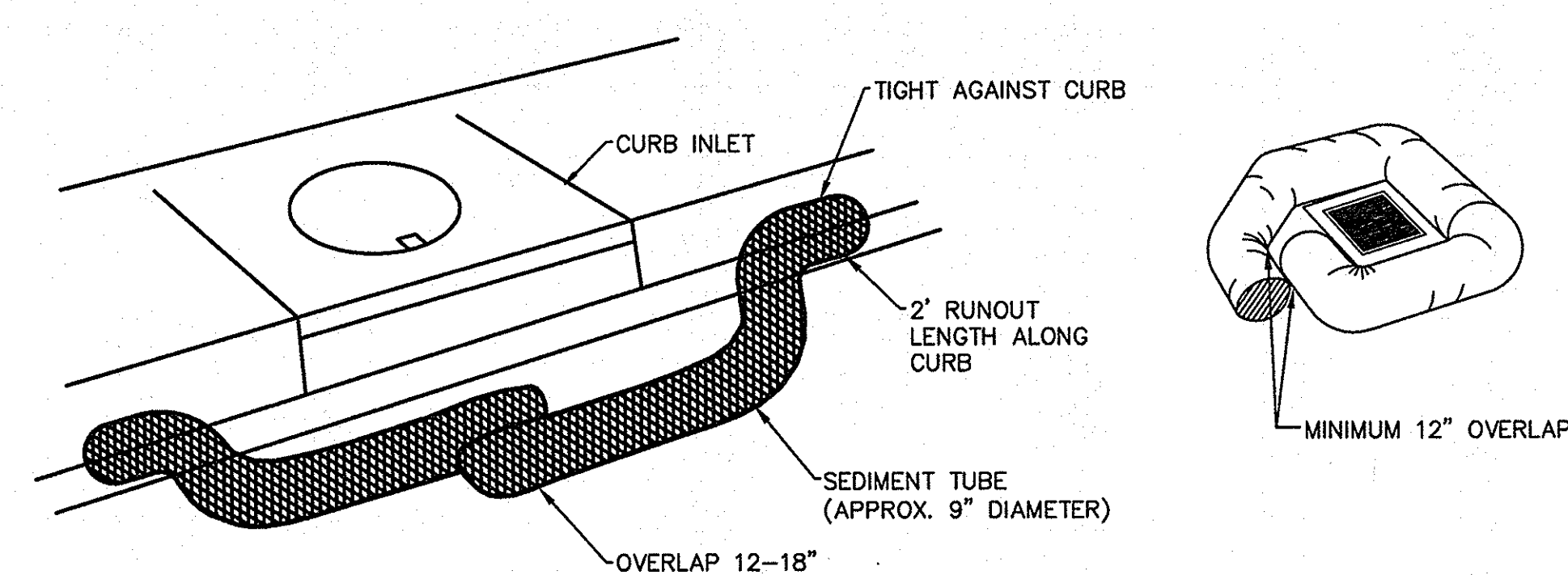
SCALE: NONE



SILT FENCE WITH WIRE FABRIC

DETAIL 3

SCALE: NONE



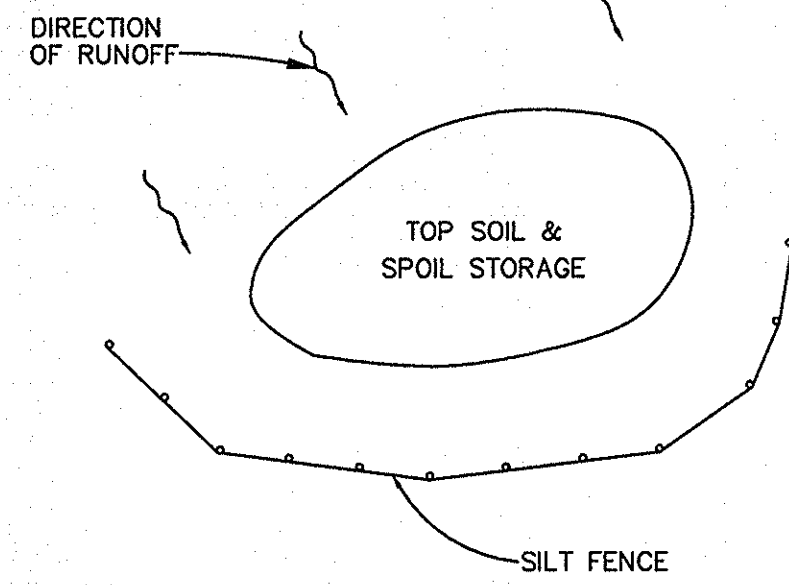
NOTES:

- PLACE AN ADEQUATE NUMBER OF SEDIMENT TUBES AROUND AN INLET TO PROVIDE COMPLETE PROTECTION. LEAVE APPROXIMATELY 3"-6" BETWEEN THE SEDIMENT TUBE AND THE INLET OR GRATE.
- ENDS SHOULD OVERLAP 12-18 INCHES. SIDES SHOULD BE PRESSED TIGHTLY TO CURB.
- USE SMALL ROCK BAGS TO HOLD TUBES IN PLACE IN UNPAVED AREAS. USE WOOD STAKES TO SECURE TUBES IN PLACE IN UNPAVED AREAS.
- INSPECT INLET PROTECTION DEVICE BEFORE AND AFTER RAIN EVENTS, AND WEEKLY THROUGHOUT THE RAINY SEASON. DURING EXTENDED RAIN EVENTS, INSPECT AT LEAST ONCE EVERY 24 HOURS.
- REMOVE AND PROPERLY DISPOSE OF ACCUMULATED SILT AND DEBRIS TO ALLOW FOR PROPER FUNCTION OF DEVICE.
- COMPLY WITH ALL MANUFACTURERS SPECIFICATIONS AND INSTRUCTIONS.

TEMPORARY INLET PROTECTION - SEDIMENT TUBE

DETAIL 2

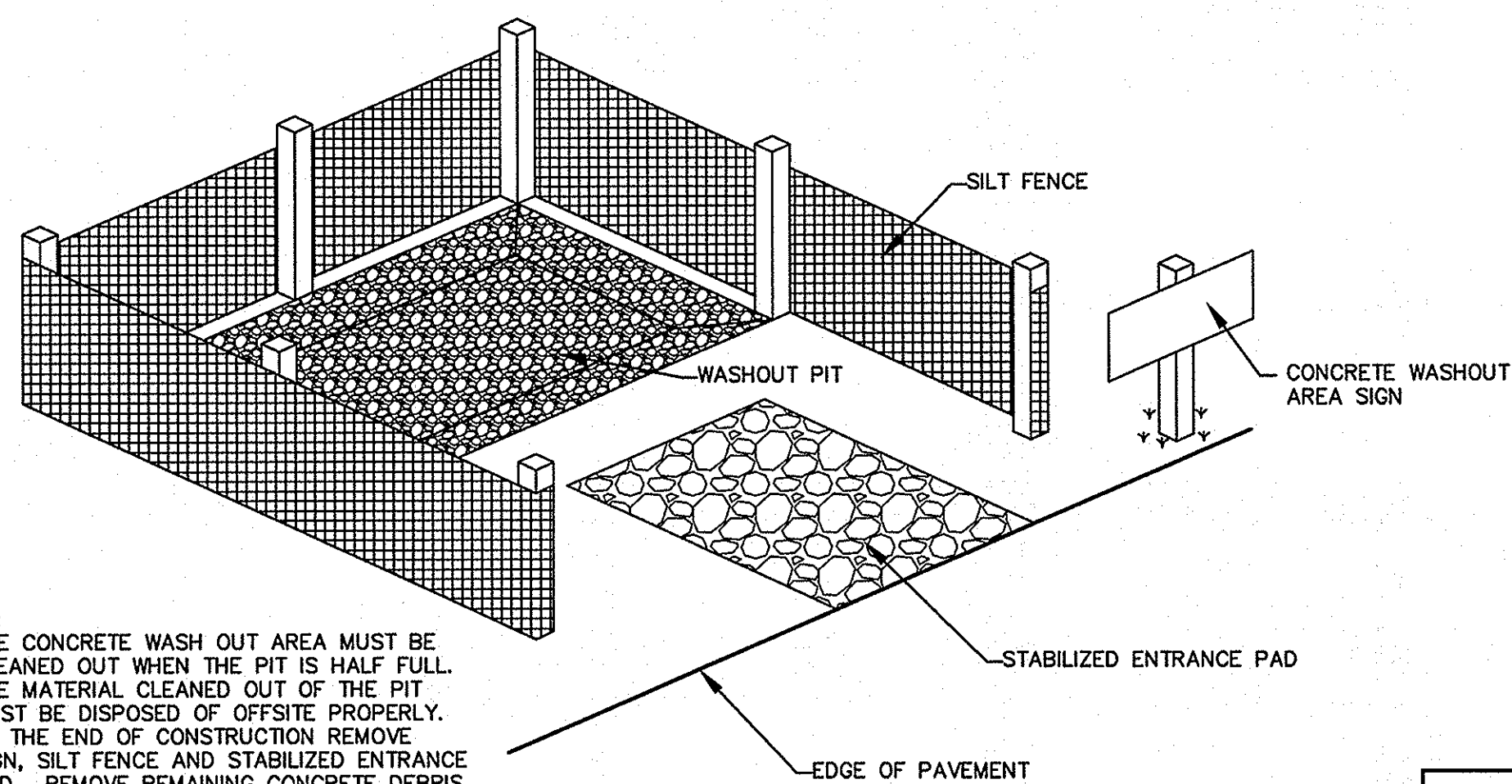
SCALE: NONE



TOP SOIL & SPOIL STORAGE

DETAIL 3

SCALE: NONE



NOTES:

- THE CONCRETE WASH OUT AREA MUST BE CLEANED OUT WHEN THE PIT IS HALF FULL.
- THE MATERIAL CLEANED OUT OF THE PIT MUST BE DISPOSED OF OFFSITE PROPERLY.
- AT THE END OF CONSTRUCTION REMOVE SIGN, SILT FENCE AND STABILIZED ENTRANCE PAD. REMOVE REMAINING CONCRETE DEBRIS FROM PIT, FILL PIT, COMPACT SOIL AND STABILIZE AREA.

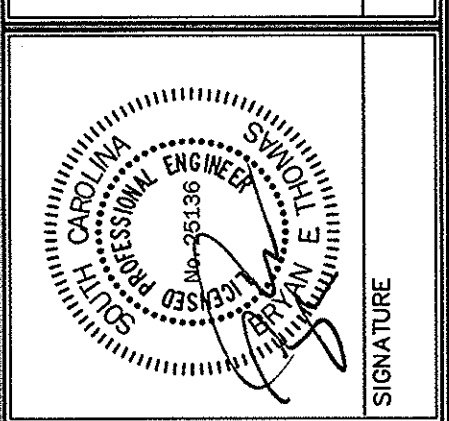
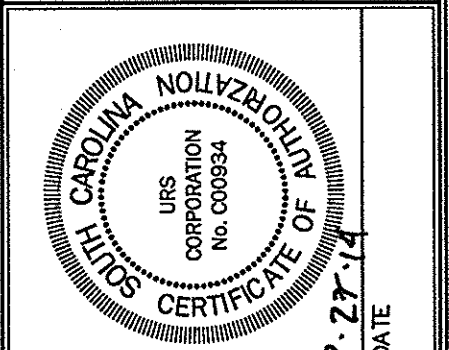
CONCRETE WASHOUT AREA

DETAIL 1

SCALE: NONE

REVISIONS	
NO.	DESCRIPTION

APPROVALS	
PROJECT ENG.	DATE



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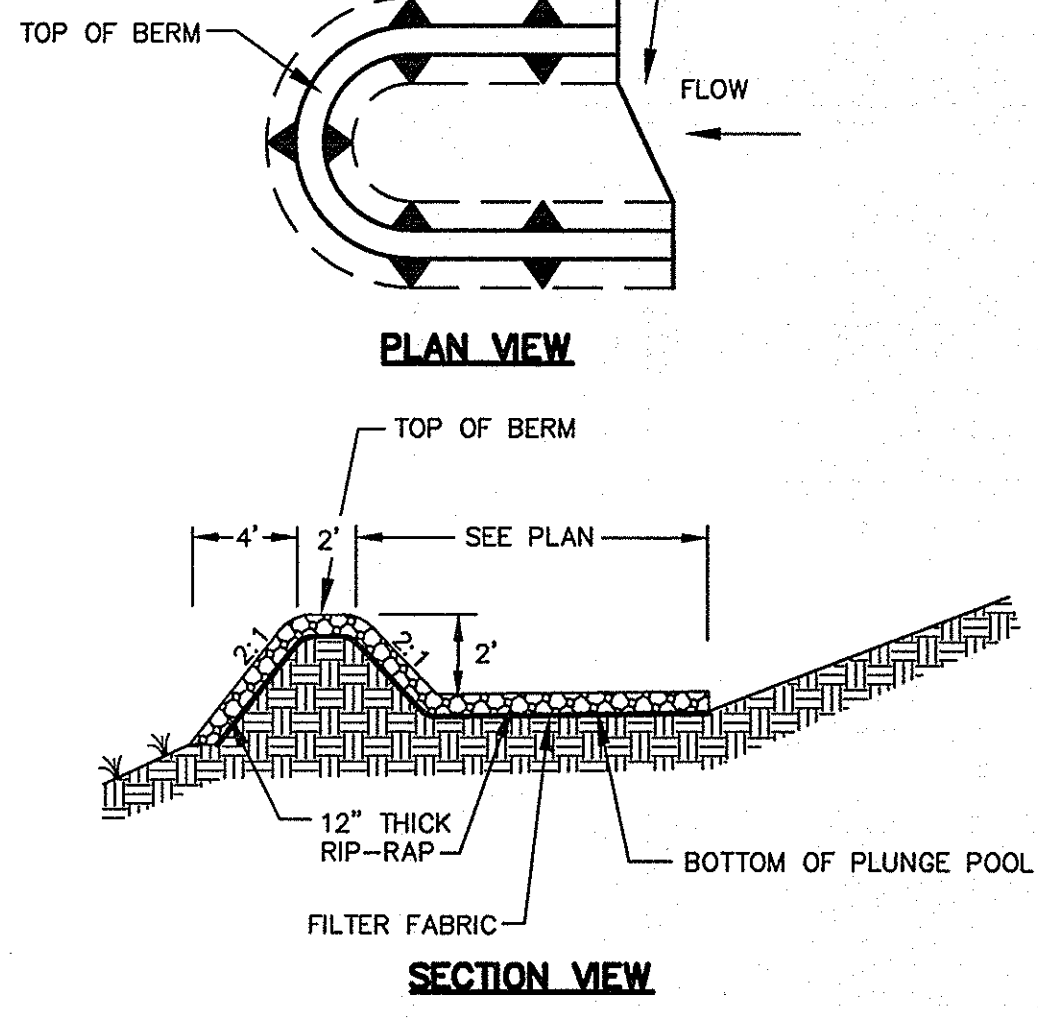
SHEET TITLE
SITE DETAILS
2 OF 3
DATE-MARCH 27, 2014 SCALE: AS SHOWN

PROJECT
USC UPSTATE STREET AND PARKING LOT MAINTENANCE AND REPAIRS
PREPARED FOR
THE UNIVERSITY OF SOUTH CAROLINA
SPARTANBURG COUNTY SOUTH CAROLINA

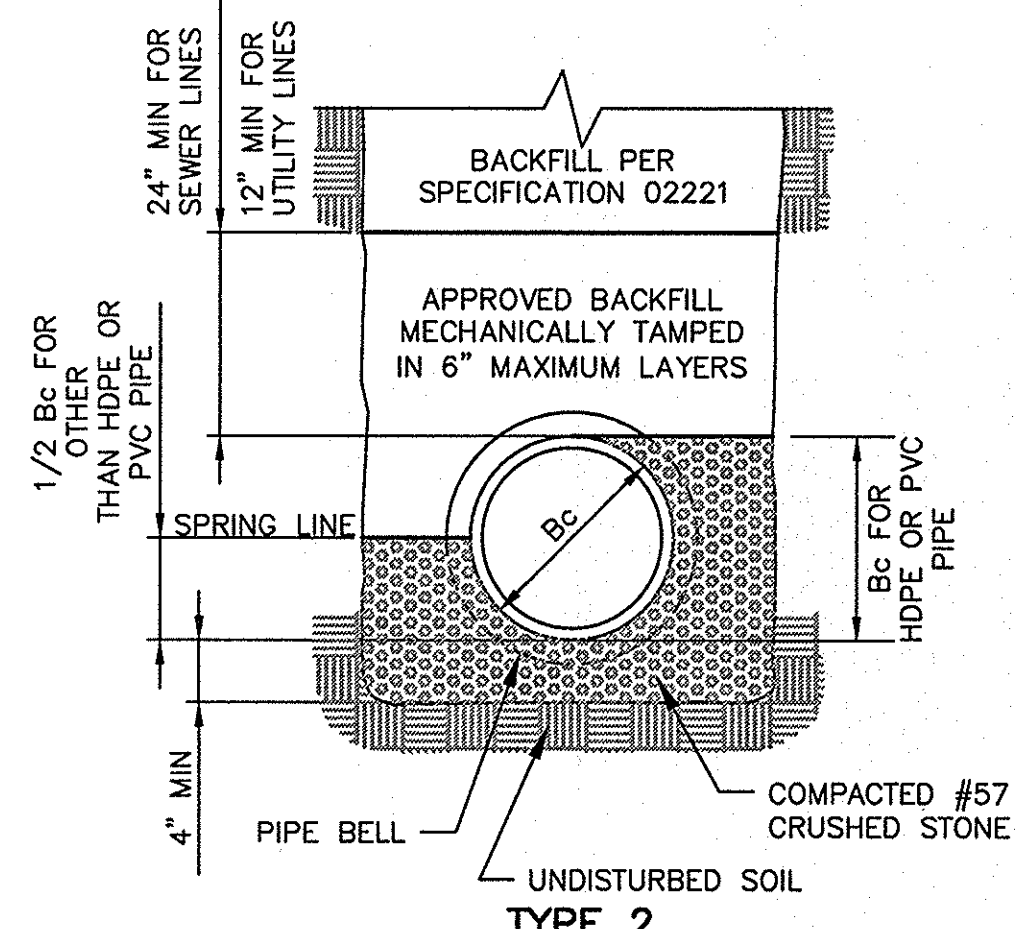
.JWG NAME	SHEET
	9
REF.	OF
	10
PROJECT NO.	FILE NO.
46423272	36,271-891

STATE PROJECT NO. H34-9544-JM-E
BID DOCUMENTS
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

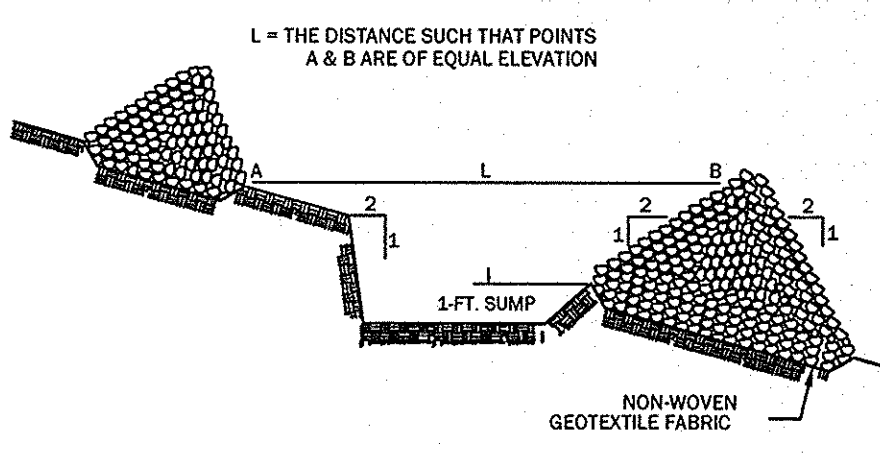
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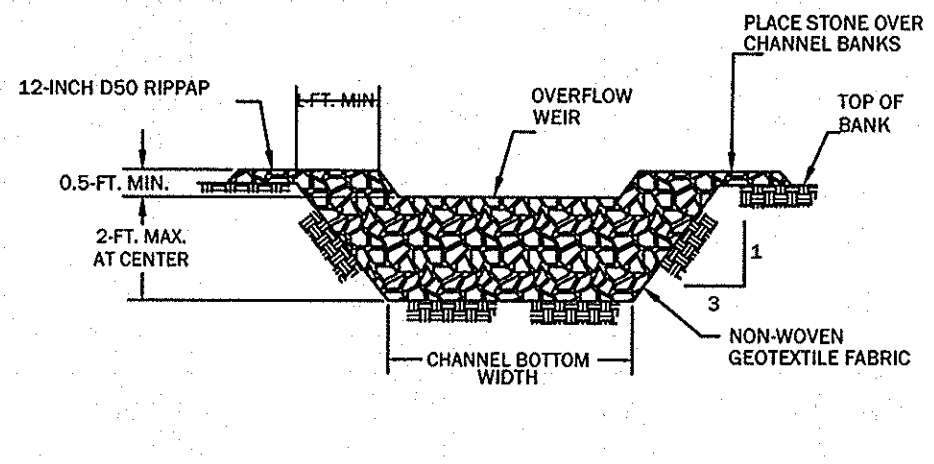
RIP-RAP PLUNGE POOL
DETAIL 1
 SCALE: NONE



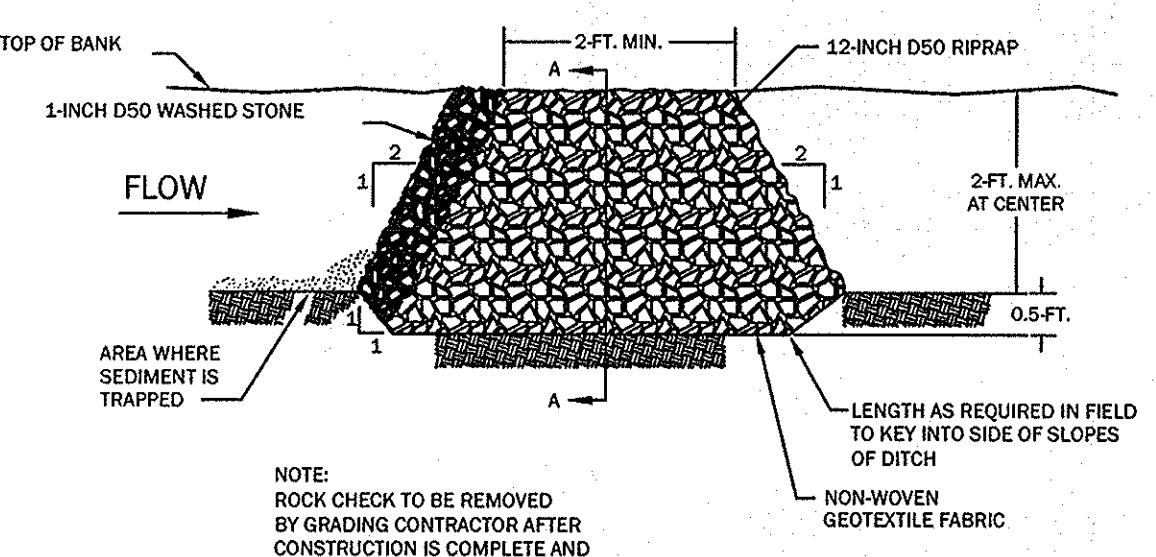
CLASS "B" BEDDING
DETAIL 2
 SCALE: NONE



SPACING BETWEEN DITCH CHECK



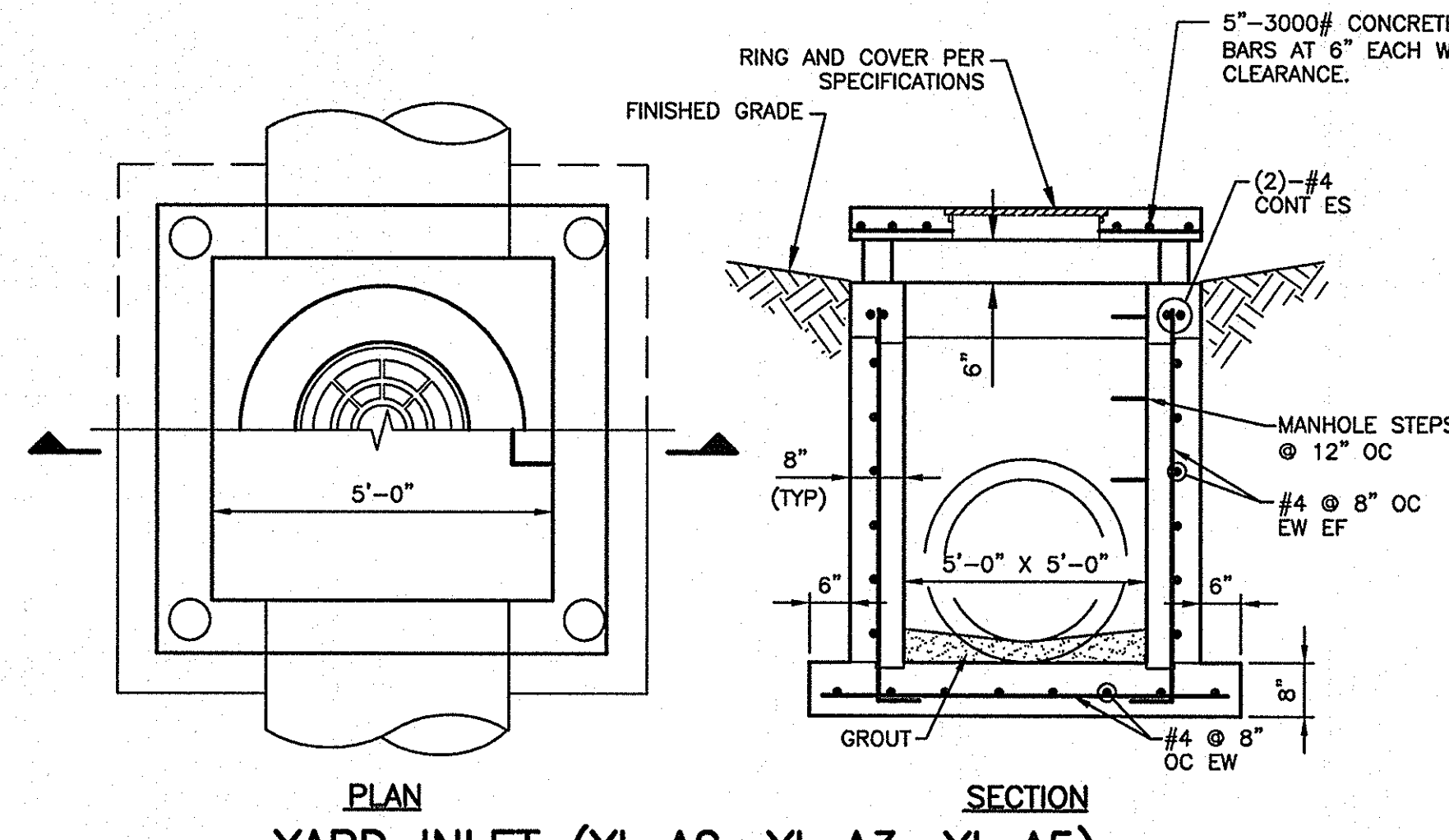
CROSS SECTION A-A THRU STONE DITCH CHECK



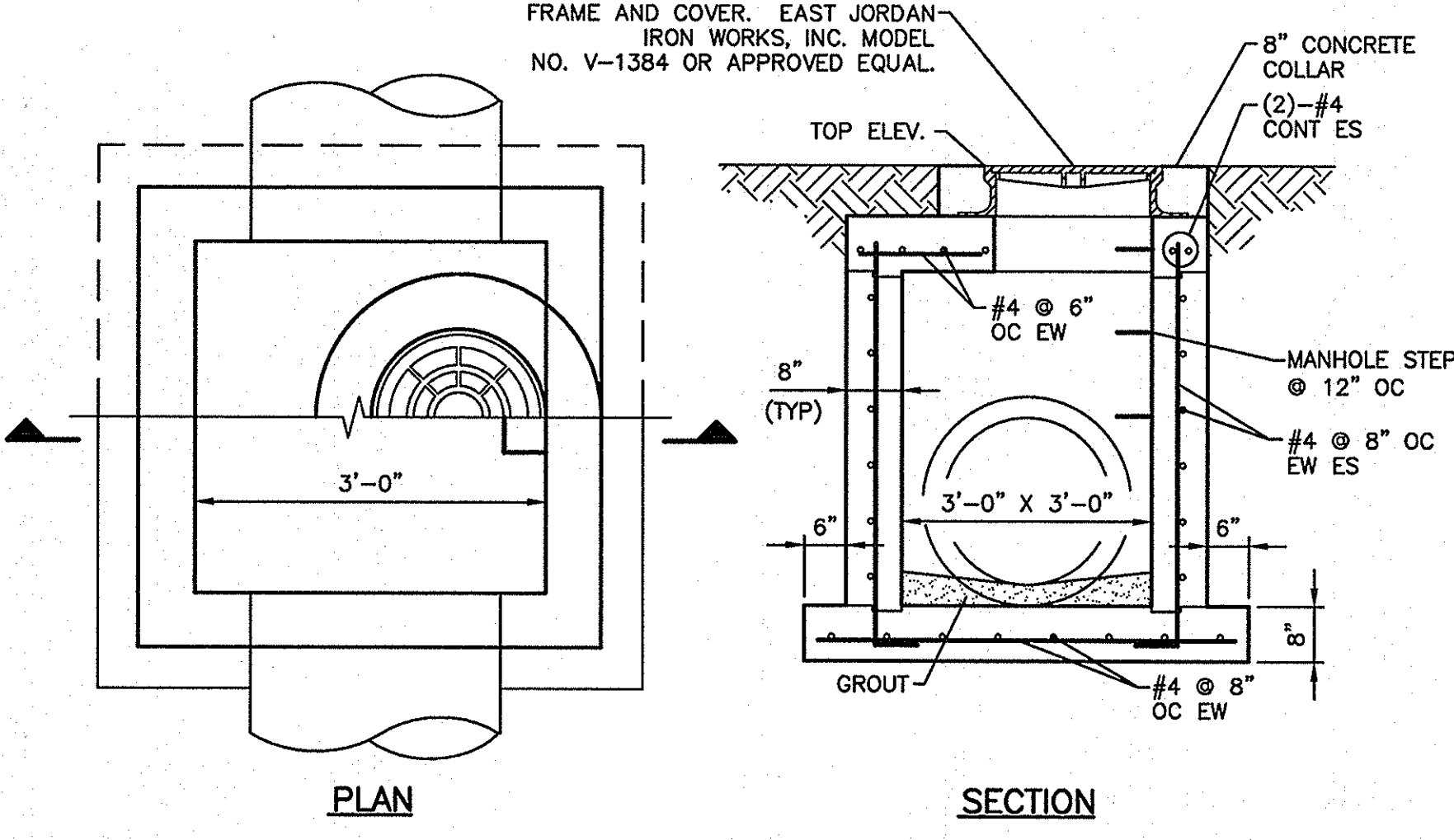
TYPICAL DITCH CHECK SECTION
RIP-RAP CHECK DAM
DETAIL 3
 SCALE: NONE

INSTALLATION:
 A NON-WOVEN GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK DITCH CHECK IS TO BE PLACED. THE BODY OF THE ROCK DITCH CHECK SHALL BE COMPOSED OF 12-INCH D50 RIPRAP. THE UPSTREAM FACE OF THE ROCK DITCH CHECK MAY BE COMPOSED OF 1-INCH D50 WASHED STONE. ROCK DITCH CHECKS SHOULD NOT EXCEED A HEIGHT OF 2- FEET AT THE CENTERLINE OF THE CHANNEL. ROCK DITCH CHECKS SHOULD HAVE A MINIMUM TOP FLOW LENGTH OF 2- FEET. STONE SHOULD BE PLACED OVER THE CHANNEL BANKS TO PREVENT WATER FROM CUTTING AROUND THE DITCH CHECK. THE ROCK MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF ROCK TO FORM DAM) TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO ENSURE THAT THE CENTER OF THE CHECK IS LOWER THAN THE EDGES. THE MAXIMUM SPACING BETWEEN THE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM CHECK.

INSPECTION AND MAINTENANCE:
 INSPECT ROCK DITCH CHECKS EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24- HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2- INCHES OR MORE OF PRECIPITATION. INSPECT FOR SEDIMENT AND DEBRIS ACCUMULATION. INSPECT DITCH CHECK EDGES FOR EROSION AND REPAIR PROMPTLY AS REQUIRED. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/3 THE ORIGINAL CHECK HEIGHT. IN THE CASE OF GRASS- LINED DITCHES AND SWALES, ROCK DITCH CHECKS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE UNLESS THE SLOPE OF THE SWALE IS GREATER THAN 4%. AFTER CONSTRUCTION IS COMPLETE, ALL STONE SHOULD BE REMOVED BY THE GRADING CONTRACTOR IF VEGETATION WILL BE USED FOR PERMANENT EROSION CONTROL MEASURES. THE AREA BENEATH THE ROCK CHECK DAM SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER ROCK CHECK DAM REMOVAL.



YARD INLET (YI-A2, YI-A3, YI-A5)
DETAIL 4
 SCALE: NONE



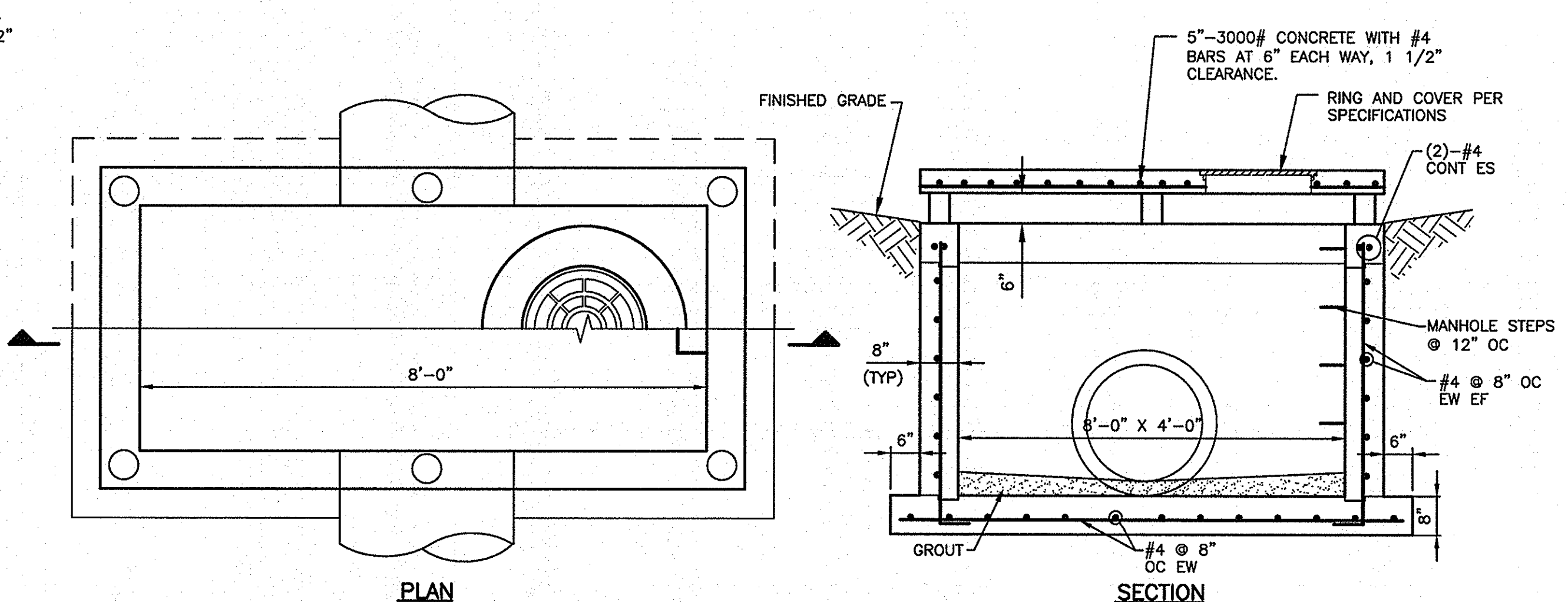
JUNCTION BOX (JB)
DETAIL 5
 SCALE: NONE

NOTES:
 1. FOR PIPES OVER 24" I.D. MAKE LENGTH & WIDTH OF DI = O.D. OF PIPE + 8" EACH SIDE.
 2. USE AT YI-A2, YI-A3, YI-A5.
 3. REFERENCE SCDOT STD. DWG 719-009-01 FOR TOP SLAB (COVER) AND THROAT LEGS.

NOTE:
 FOR PIPES OVER 24" I.D. MAKE LENGTH & WIDTH OF J.B. = O.D. OF PIPE + 6" EACH SIDE.

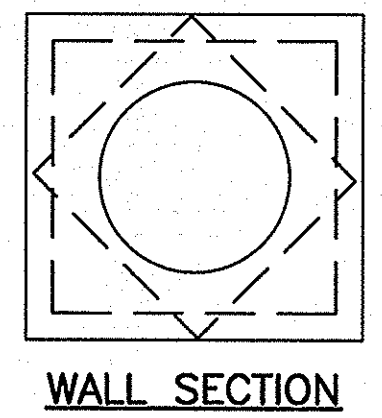
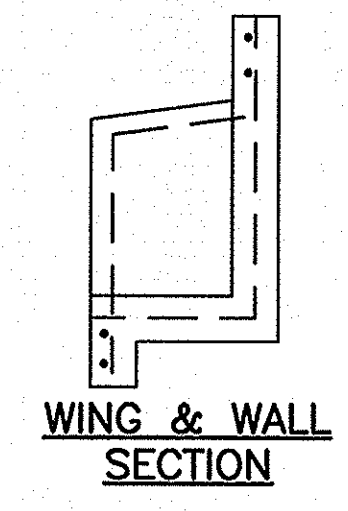
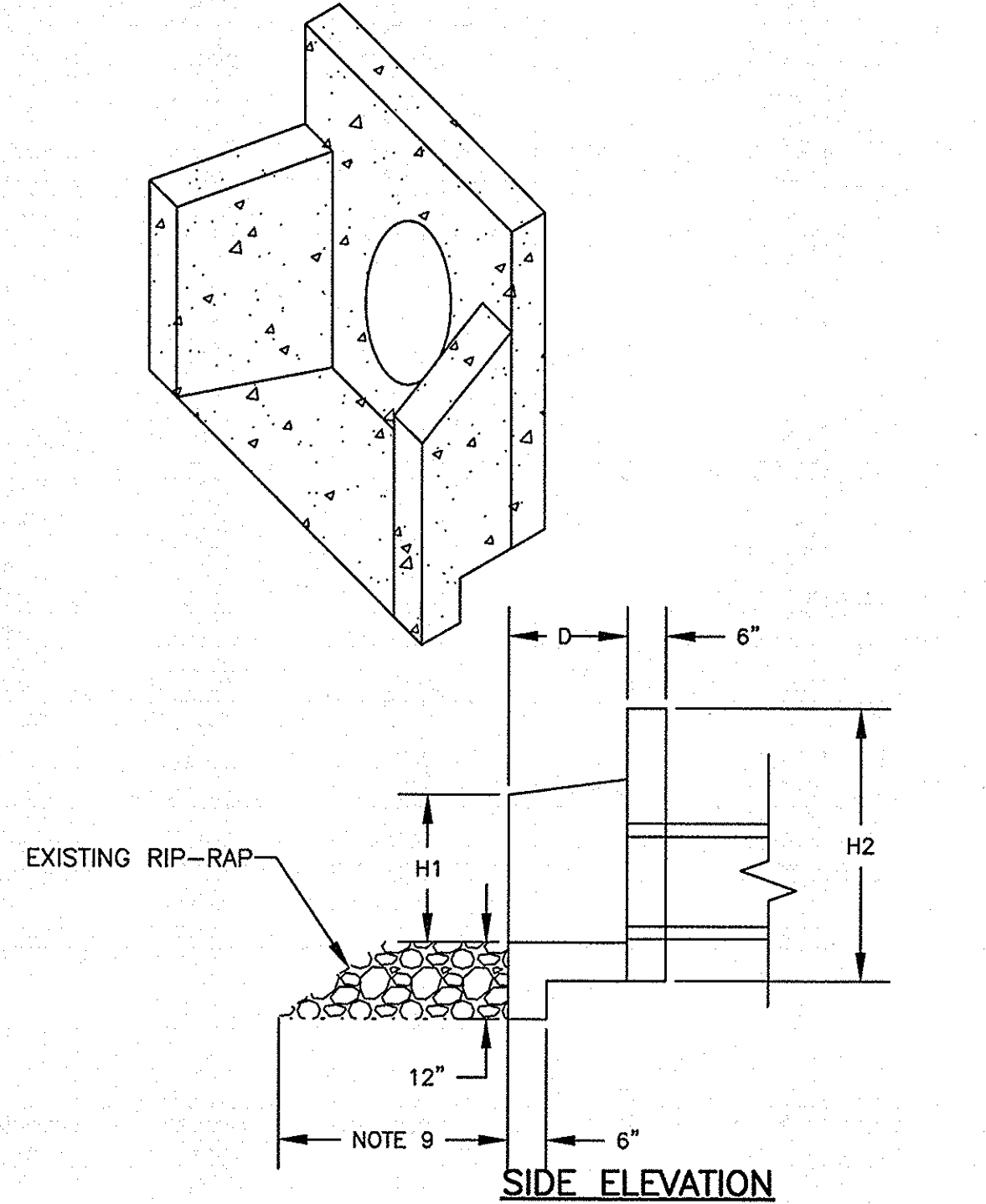
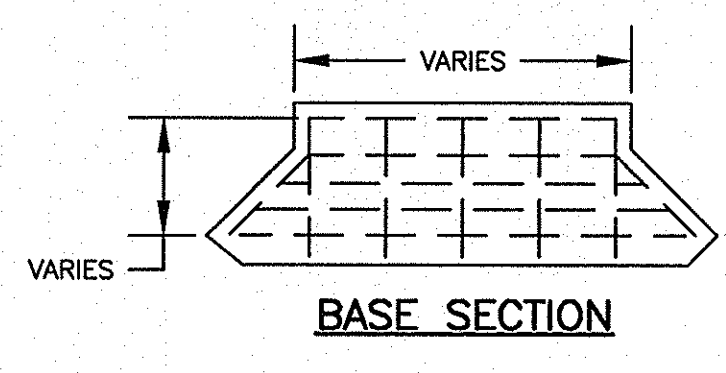
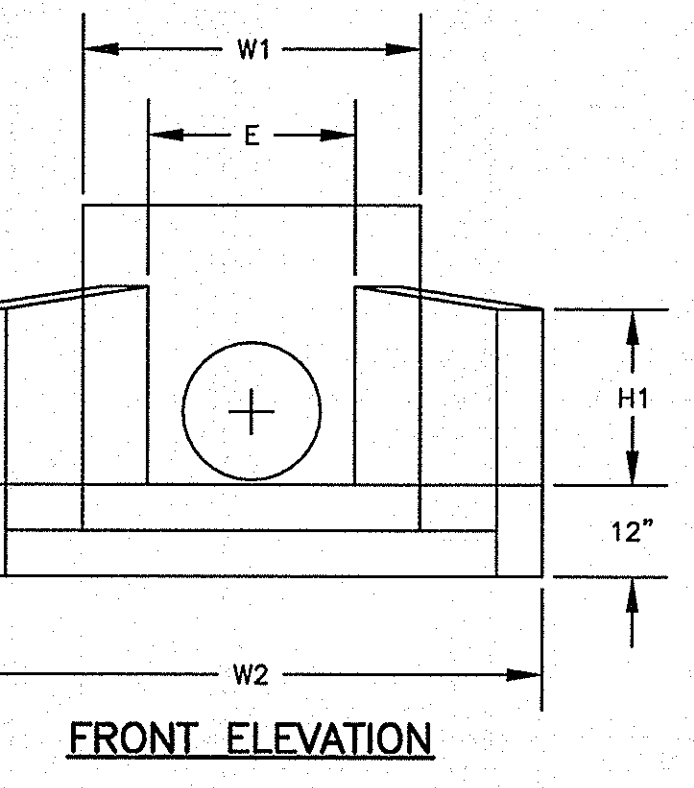
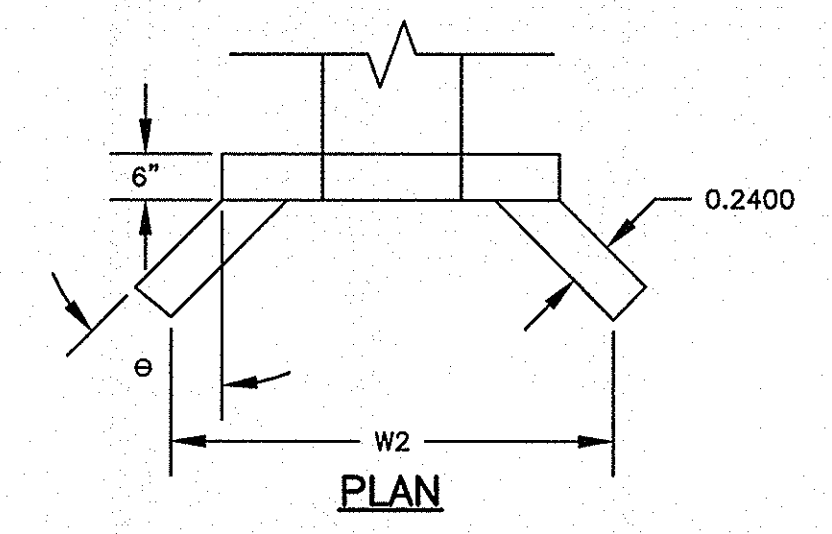
PROVIDE EAST COAST EROSION BLANKETS PRODUCT ECP-2 POLYPROPYLENE TURF REINFORCEMENT MAT. REFERENCE MANUFACTURER'S INSTALLATION GUIDE FOR INSTALLATION INSTRUCTIONS

TURF REINFORCEMENT MAT
DETAIL 6
 SCALE: NONE



YARD INLET (YI-A4)
DETAIL 7
 SCALE: NONE

NOTES:
 1. FOR PIPES OVER 24" I.D. MAKE LENGTH & WIDTH OF DI = O.D. OF PIPE + 6" EACH SIDE.
 2. USE AT YI-A4.
 3. REFERENCE SCDOT STD. DWG 719-009-01 FOR TOP SLAB (COVER) AND THROAT LEGS.



HEADWALL DIMENSIONS FOR CONCRETE PIPE										
PIPE SIZE ID	REINF.	W1	W2	H1	H2	H3	D	E	WT	S.F. BASE AREA
18"	#4	3'-8"	6'-1"	1'-9"	3'-8"	12"	1'-6"	2'-3"	2,100	45'
24"	#5	4'-3"	7'-2"	2'-0"	4'-3"	12"	1'-10"	2'-9"	2,850	45'
36"	#6	5'-8"	10'-10"	3'-3"	5'-9"	12"	2'-11"	4'-4"	5,600	45'
48"	#6	6'-7"	12'-6"	3'-8"	6'-8"	14"	3'-4"	5'-3"	7,500	45'

PRECAST CONCRETE HEADWALL (HW)

NOTES:
 1. ALL CONCRETE TO BE 4000 PSI MINIMUM.
 2. REINFORCEMENT STEEL SHALL MEET ASTM 615 GRADE 60 WITH 2" MINIMUM CLEARANCE.
 3. CHAMFER ALL EXPOSED EDGES 3/4".
 4. PRECAST HEADWALL UNIT SHALL BE CAREFULLY POSITIONED ON THE PREPARED FOUNDATION AND PIPE INSERTED INTO HEADWALL OR HEADWALL SLID OVER PIPE AND CHECKED FOR ALIGNMENT.
 5. PIPE SHALL BE GROUTED IN HEADWALL WITH CEMENTITIOUS MATERIAL BY CONTRACTOR. BONDING AGENT MAY BE USED IF REQUIRED.
 6. CARE SHALL BE TAKEN DURING HANDLING, BACKFILLING AND COMPACTION TO PREVENT DAMAGE AND MAINTAIN ALIGNMENT. MINOR DAMAGE TO THE UNIT MAY BE REPAIRED BY CONTRACTOR WHEN PERMITTED BY ENGINEER.
 7. ALL DIMENSIONS ARE NOMINAL.
 8. REINFORCEMENT VARIES WITH SIZE OF UNIT.
 9. PROVIDE 6x PIPE DIAMETER (MIN) OF RIP-RAP LINED DITCH.

DETAIL 8
 SCALE: NONE

REVISIONS NO. DESCRIPTION DATE BY				
APPROVALS PROJECT ENG. DESIGNED BY: MJD MJD DRAWN BY: EHM EHM CHECKED BY: BET BET APPROVED: BET		DATE: 3-27-14	SIGNATURE:	
URS 101 Research Drive Columbia, South Carolina 29203 Telephone (803) 254-4400 • Fax (803) 771-6676 www.urscorp.com	PROJECT: USC UPSTATE STREET AND PARKING LOT MAINTENANCE AND REPAIRS PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA SPARTANBURG COUNTY SOUTH CAROLINA	SHEET TITLE: SITE DETAILS 3 OF 3	DATE: MARCH 27, 2014 SCALE: AS SHOWN	
				STATE PROJECT NO. H34-9544-JM-E BID DOCUMENTS THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION
				DWG NAME SHEET N.B. NO. 10 REF. OF 10 PROJECT NO. 46423272 FILE NO. 36,271-B91