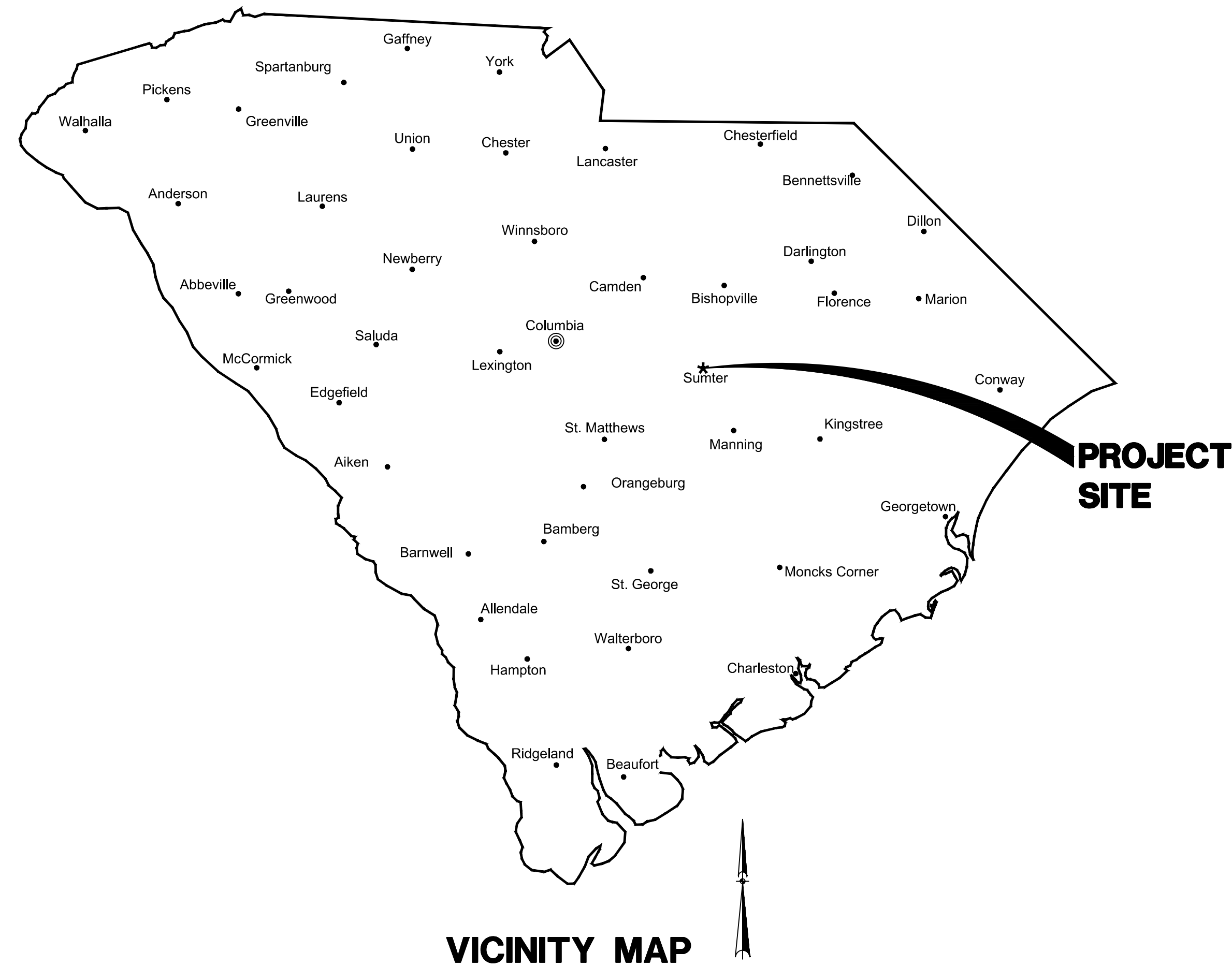
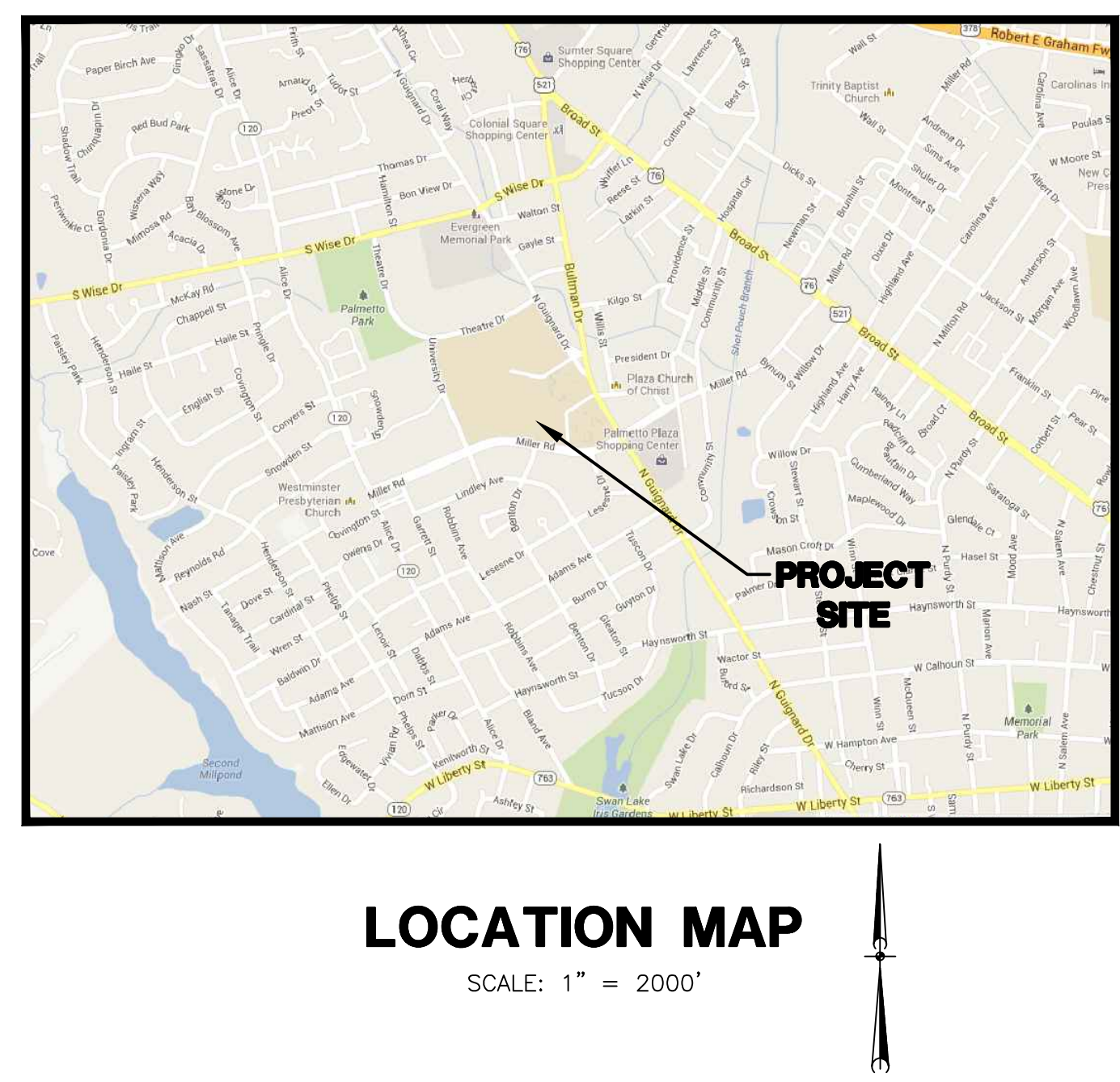


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# USC SUMTER PARKING LOT IMPROVEMENTS PHASE 1 OF 2

PREPARED FOR  
**UNIVERSITY OF SOUTH CAROLINA**  
SUMTER, SOUTH CAROLINA



**LOCATION MAP**  
SCALE: 1" = 2000'

SHEET INDEX

<u>SHEET</u>	<u>SHEET No.</u>
COVER SHEET	
GENERAL NOTES, LEGEND, SYMBOLS & ABBREVIATIONS	C1
EXISTING CONDITIONS PLAN	C2
DEMOLITION PLAN	C3
SITE IMPROVEMENT PLAN	C4
SITE DETAILS	C5
LANDSCAPE AND IRRIGATION PLAN AND DETAILS ( BID ALTERNATE 2 )	L1-L4

CAROLINA PROFESSIONAL ENGINEERS  
CORPORATION  
No. 00934  
CERTIFICATE OF  
HIGHS SEAL

DATE  
**7-17-14**

CAROLINA PROFESSIONAL ENGINEERS  
CORPORATION  
No. 25136  
CERTIFICATE OF  
HIGHS SEAL

SIGNATURE  
*[Signature]*



**URS Corporation**  
 101 Research Drive  
 Columbia, South Carolina 29203  
 Telephone (803) 254-4400 ; Fax (803) 771-6676  
 www.URSCorp.com

**STATE PROJECT NO.**  
**H39-9517-MJ-D**

JULY 17, 2014

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

PROJECT NO.  
 46423239

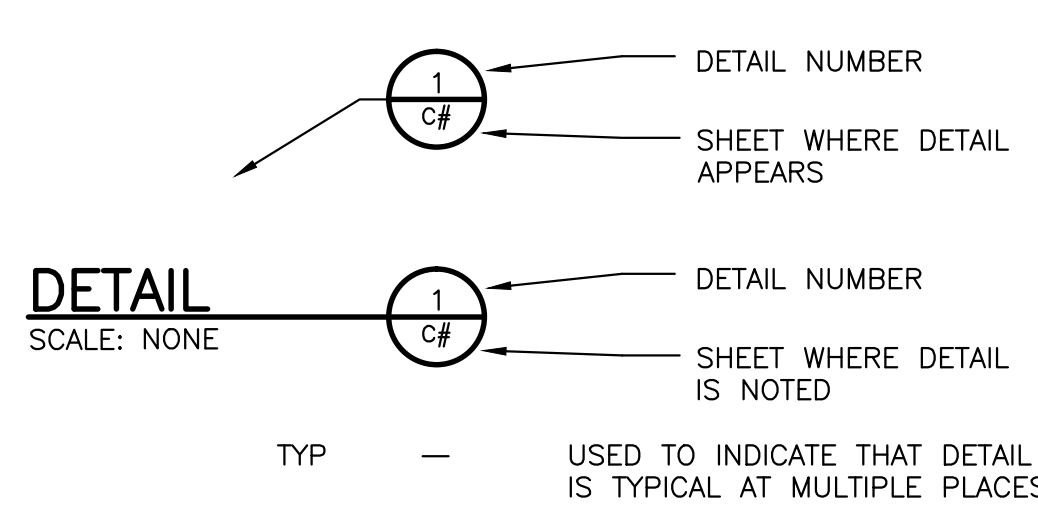
FILE NO.  
 36,257-B90

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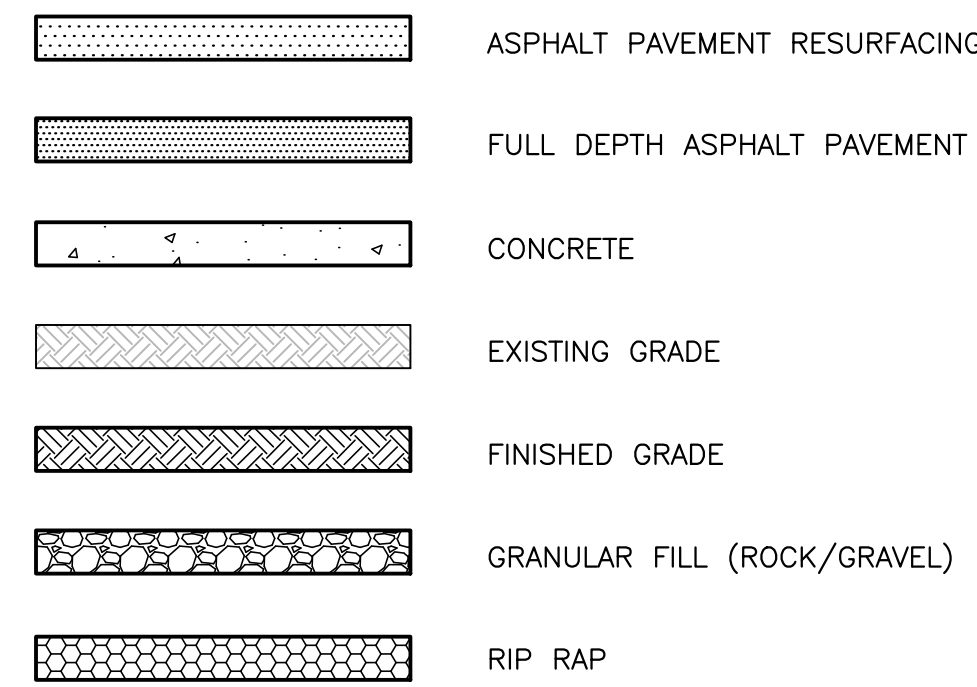
**ABBREVIATION WORD**

<b>A</b>	AGGR & APPROX	AGGREGATE AND APPROXIMATE	<b>F CONT.</b>	FIL	FILLET
ASPH	ASPH	ASPHALT	FL	FLT	FILTER
AT	AT	AT	FF	FIN	FINISH
AUTH	AUTH	AUTHORIZED	FH	FH	FINISH FLOOR
AVE	AVE	AVENUE	FLG	FL	FLUID
AVG	AVG	AVERAGE	FWD	FWD	FORWARD
AZ	AZ	AZIMUTH	FDN	FDN	FOUNDATION
			FM	FM	FORCEMAIN
			FREQ	FREQ	FREQUENCY
			FR	FR	FRONT
<b>B</b>	BL	BASE LINE	<b>G</b>	GAL	GALLON
BRG	BRG	BEARING	GALV	GALV	GALVANIZE
BES	BES	BENCHED END SECTION	GEN	GEN	GENERAL
BET.	BET.	BETWEEN	GR	GR	GRADE
BS	BS	BOTH SIDES	GL	GL	GRADE LINE
BOT	BOT	BOTTOM	C	C	GRAVITY
B/	B/	BOTTOM OF	GRD	GRD	GROUND
BC	BC	BOTTOM CHORD	<b>H</b>	HDPE	HIGH DENSITY POLYETHYLENE
BDY	BDY	BOUNDARY	H.P.	H.P.	HORIZONTAL
BRK	BRK	BREAK	HOR	HOR	HOUR
BRDG	BRDG	BRIDGE	HR	HR	HEADWALL
BLDG	BLDG	BUILDING	HW	HW	HYDRAULIC
BV	BV	BALL VALVE	HYD	HYD	
BFV	BFV	BUTTERFLY VALVE			
<b>C</b>	CALC	CALCULATE	<b>J</b>	J	JUNCTION
CB	CB	CATCH BASIN	IN, (OR ")	IN, (OR ")	INCH
CIP	CIP	CAST-IN-PLACE	IPS	IPS	INCHES PER SECOND
CI	CI	CAST IRON	INCL	INCL	INCLUDE
CAT.	CAT.	CATALOG	IND	IND	INDUSTRIAL
CEM	CEM	CEMENT	INFO	INFO	INFORMATION
CTR	CTR	CENTER	ID	ID	INSIDE DIAMETER
CL	CL	CENTERLINE	IF	IF	INSIDE FACE
CG	CG	CENTER OF GRAVITY	IINT	IINT	INTERSECT
C to C	C to C	CENTER TO CENTER	INV	INV	INVERT
CHAM	CHAM	CHAMFER	I	I	IRON
CO	CO	CHANGE ORDER	<b>J</b>	J	JUNCTION
CHAN	CHAN	CHANNEL	JCT	JCT	JUNCTION
CHK	CHK	CHECK	JB	JB	JUNCTION BOX
CHD	CHD	CHECK VALVE	<b>L</b>	L	LATITUDE
CIR	CIR	CHORD	LAT	LAT	LEFT
CIR	CIR	CIRCLE	LT	LT	LEFT
CIRC	CIRC	CIRCULAR	L.P.	L.P.	LOW POINT
CO	CO	CIRCUMFERENCE	<b>M</b>	M	MANHOLE
CD	CD	CLEANOUT	MH	MH	MANHOLE
CW	CW	CLOCKWISE	MAN.	MAN.	MANUFACTURE
CTD	CTD	COATED	MFR	MFR	MATERIAL
COL	COL	COLUMN	MATL	MATL	MATERIAL
COMB.	COMB.	COMBINATION	MAX	MAX	MAXIMUM
CO	CO	COMPANY	MECH	MECH	MECHANICAL
CONC	CONC	CONCRETE	MED	MED	MEDIAN
CMP	CMP	CORRUGATED METAL PIPE	MET.	MET.	METAL
CMU	CMU	CONCRETE MASONRY UNIT	M	M	METER
COND	COND	CONDITION	MI	MI	MILES
CONN	CONN	CONNECT	MPH	MPH	MILE PER HOUR
CONT	CONT	CONTINUOUS	MIN	MIN	MINIMUM
CD	CD	CORD	MIN (OR ")	MIN (OR ")	MINUTE
CORP	CORP	CORPORATION	MISC	MISC	MISCELLANEOUS
XSECT	XSECT	CROSS SECTION	MOD	MOD	MODEL
CU	CU	CUBIC	MULT	MULT	MULTIPLE
CC	CC	CUBIC CENTIMETER	<b>N</b>	N	NEGATIVE
CFM	CFM	CUBIC FEET PER MINUTE	NEG	NEG	NEGATIVE
CFS	CFS	CUBIC FEET PER SECOND	NIC	NIC	NOT IN CONTRACT
CU FT	CU FT	CUBIC FOOT	NOM	NOM	NEUTRAL
CU IN.	CU IN.	CUBIC INCH	NOR	NOR	NORMAL
CU YD	CU YD	CUBIC YARD	N	N	NORTH
CUR	CUR	CURRENT	NTS	NTS	NOT TO SCALE
			NO. (OR #)	NO. (OR #)	NUMBER
<b>D</b>	DEC	DECIMAL	<b>O</b>	O	ON CENTER
DEG (OR ")	DEG (OR ")	DEGREE	O/C	O/C	OFFSET
DEPT	DEPT	DEPARTMENT	O/S	O/S	OFFSET
DSGN	DSGN	DESIGN	OP'NG	OP'NG	OPENING
DET	DET	DETAIL	OPP	OPP	OPPOSITE
DEV	DEV	DEVELOP	ORIG	ORIG	ORIGINAL
DI	DI	DROP INLET	OD	OD	OUTSIDE DIAMETER
DIAG	DIAG	DIAGONAL	OF	OF	OUTSIDE FACE
DIA (OR Ø)	DIA (OR Ø)	DIAMETER	OA	OA	OVERALL
DIM	DIM	DIMENSION	OHP	OHP	OVERHEAD POWER
DISCH	DISCH	DISCHARGE	OVF	OVF	OVERFLOW
DIST	DIST	DISTANCE	<b>P</b>	P	PERMANENT
DO	DO	DITTO	PERP	PERP	PERPENDICULAR
DN	DN	DOWN	PL	PL	PROPERTY LINE
DFTG	DFTG	DRAFTING	LB (OR #)	LB (OR #)	POUND
DWG	DWG	DRAWING	PSI	PSI	POUNDS PER SQUARE INCH
DR	DR	DRIVE	PWR	PWR	POWER
DI	DI	DUCTILE IRON	PFD	PFD	PREFERRED
DIP	DIP	DUCTILE IRON PIPE	PREP	PREP	PREPARE
			PRESS.	PRESS.	PRESSURE
			PCO	PCO	PRESSURE CLEANOUT
			PT	PT	PRESSURE TREATED
			PROC	PROC	PROCESS
			PROD	PROD	PRODUCTION
			PF	PF	PROFILE
			PROJ	PROJ	PROJECT
<b>E</b>	EA	EACH	<b>R</b>	R	RADIUS
EF	EF	EACH FACE	RR	RR	RAILROAD
ES	ES	EACH SIDE	RECD	RECD	RECEIVED
EW	EW	EACH WAY	REC	REC	RECORD
E	E	EAST	REF	REF	REFERENCE
EFF	EFF	EFFECTIVE	REF L	REF L	REFERENCE LINE
ELL	ELL	ELBOW	ROP	ROP	REINFORCED CONCRETE PIPE
ELEC	ELEC	ELECTRIC	REINF	REINF	REINFORCING
ELEV	ELEV	ELEVATION	REM	REM	REMOVE
ENGR	ENGR	ENGINEER	REQ	REQ	REQUIRE
EQ	EQ	EQUAL	REQD	REQD	REQUIRED
EQUIP. (OR EQ)	EQUIP. (OR EQ)	EQUIPMENT	REV	REV	REVISION(REVISED)
EQUIV	EQUIV	EQUIVALENT	RJ	RJ	RESTRAINED JOINT
EST	EST	ESTIMATE	RRMP	RRMP	RAILROAD MILE POST
EXP	EXP	EXPANSION	RT	RT	RIGHT
EJ	EJ	EXPANSION JOINT	RH	RH	RIGHT HAND
EXT	EXT	EXTERIOR	R/W	R/W	RIGHT OF WAY
<b>F</b>	FES	FLARED END SECTION	<b>S</b>	S	SCHEDULE
F to F	F to F	FACE TO FACE	SL	SL	SEA LEVEL
FT (OR ")	FT (OR ")	FEET	SEC (OR ")	SEC (OR ")	SECOND
FPM	FPM	FEET PER MINUTE	SECT	SECT	SECTION
FPS	FPS	FEET PER SECOND	SD	SD	STORM DRAIN
FRP	FRP	FIBERGLASS REINFORCED	SHW	SHW	STRAIGHT HEADWALL
FLD	FLD	FIELD	SIM	SIM	SIMILAR
FIG.	FIG.	FIGURE	S	S	SOUTH
			SQ	SQ	SQUARE
			SS	SS	SANITARY SEWER
			STD	STD	STANDARD
			STA	STA	STATION
			SUR	SUR	SURFACE
			SY	SY	SQUARE YARD
			SYM	SYM	SYMBOL
			SW	SW	SIDEWALK

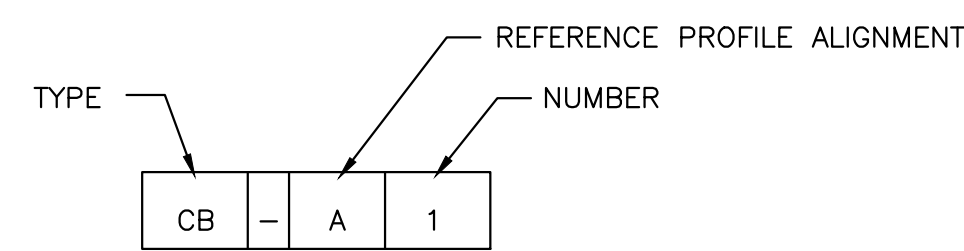
**DETAIL REFERENCES**



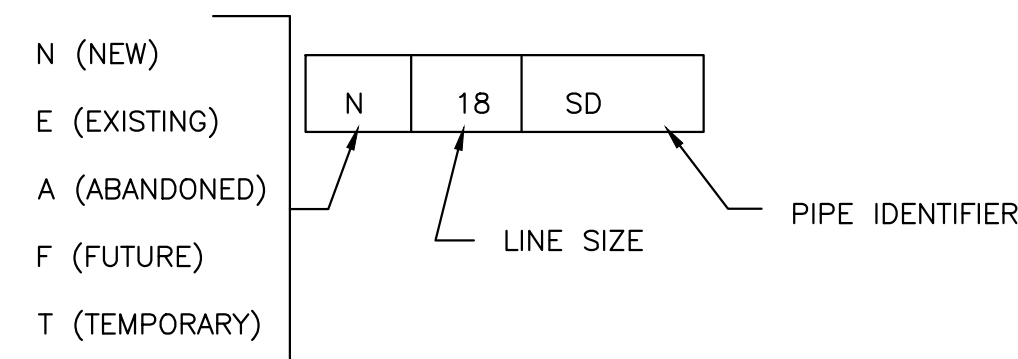
**MATERIALS**



**STRUCTURE**



**PIPING**



**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 TOPOGRAPHICAL SURVEY PREPARED FOR USC SUMTER BY URS CORPORATION, DATED MAY 20, 2013.
  - SOILS DATA REPORT PREPARED BY S&ME, INC., DATED FEBRUARY 14, 2013 (S&ME FILE NO. 1611-13-055).
  - AERIAL MAPPING TO DETERMINE BUILDING LOCATIONS.
  - CONSTRUCTION PLANS FOR USC SUMTER PARKING LOT STORM DRAINAGE AND GRAVITY SEWER REPAIR PREPARED BY URS CORPORATION, DATED AUGUST 2, 2013, WITH REVISIONS (URS FILE NO. 36,131-B90).
- ALL ELEVATIONS SHOWN ARE BASED ON:
  - HORIZONTAL: SOUTH CAROLINA STATE PLANE COORDINATE NAD 83
  - VERTICAL: NAVD 88
- 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.
- THESE CIVIL/SITE PLANS ARE PART OF THE OVERALL PROJECT PLAN SET. REVIEW PLANS OF ALL TRADES FOR CONSTRUCTION COORDINATION AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.

**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	---	---
INLET PROTECTION	---	---
TREE	---	---
SILT FENCE	---	---
WETLANDS	---	---
WETLANDS BUFFER	---	---
FENCE LINE	---	---
GUARD RAIL	---	---
TREE LINE	---	---
SURFACE DRAINAGE FLOW	---	---
STORM DRAINAGE	---	---
CATCH BASIN	□ CB	■ CB
DROP INLET	□ DI	■ DI
YARD INLET	□ YI	■ YI
JUNCTION BOX	□ JB	● JB
SANITARY SEWER	---	---
SEWER FORCE MAIN	---	---
SEWER MANHOLE	○ MH	● MH
SEWER VALVE	⊗	⊗
AIR RELEASE MANHOLE	○ ARV	● ARV
SEWER CLEANOUT	○ CO	○ CO
WATER LINE	---	---
FIRE HYDRANT	⊕ FH	◆ FH
WATER METER	□ WM	■ WM
WATER VALVE	⊗ WV	⊗ WV
GAS LINE	---	---
GAS VALVE	⊗ GV	⊗ GV
UNDERGROUND ELECTRIC	---	---
OVERHEAD POWER	---	---
SIGN	---	---
POWER POLE	⊗ PP	⊗ PP
GUY WIRE	---	---
GUY POLE	⊗ GP	⊗ GP
LAMP POLE	⊗ LMP	⊗ LMP
SERVICE POLE	⊗ SP	⊗ SP
LIGHT POLE	⊗ LP	⊗ LP
ELECTRIC MANHOLE	⊗ EMH	⊗ EMH
ELECTRIC TRANSFORMER	⊗ TRN	⊗ TRN
ELECTRIC BOX	⊗ EBOX	⊗ EBOX
UNDERGROUND TELEPHONE	---	---
TELEPHONE PEDESTAL	□ TPED	□ TPED
TELEPHONE MANHOLE	⊗ TMH	⊗ TMH
UNDERGRD. CABLE TV	---	---
CABLE TV PEDESTAL	□ CTV PED	□ CTV PED
MAIL BOX	⊗ MB	⊗ MB
UNDERGRD. FIBER OPTIC LINE	---	---

**STATE PROJECT NO. H39-9517-MJ-D**

**BID DOCUMENTS**

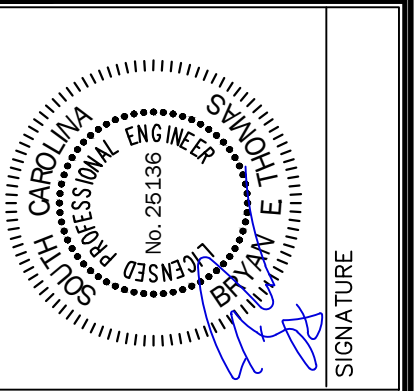
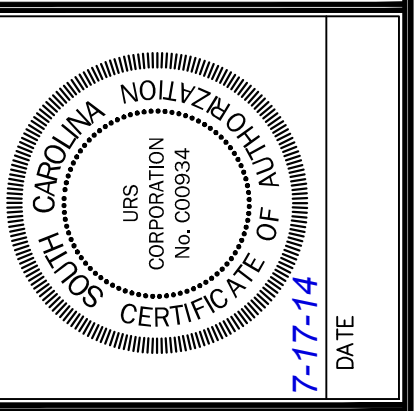
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

**REVISIONS**

NO.	DESCRIPTION	DATE	BY

**APPROVALS**

PROJECT ENG.	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:



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

**GENERAL NOTES, LEGEND, SYMBOLS, & ABBREVIATIONS**

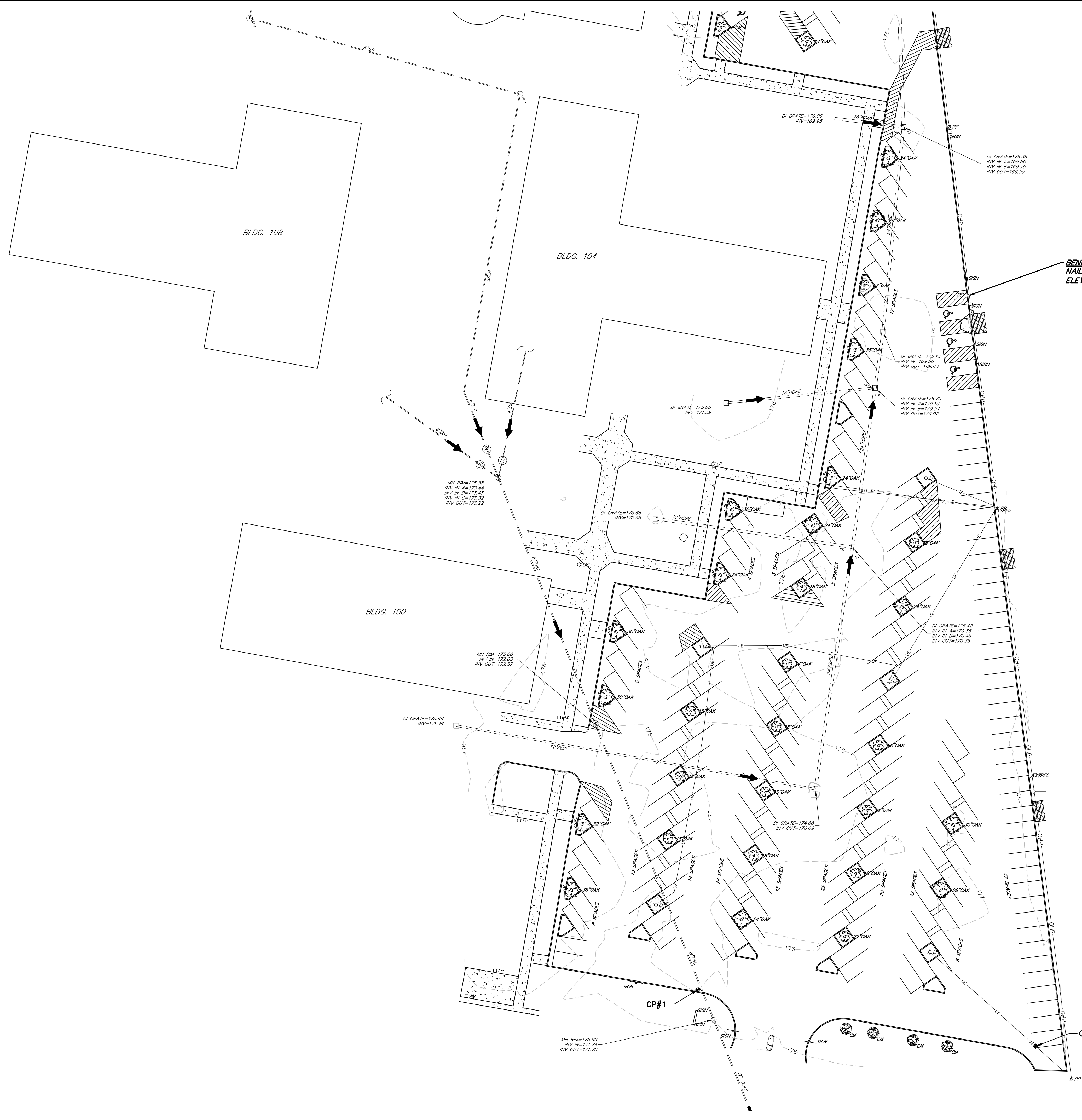
SHEET TITLE

DATE: JULY 17, 2014 SCALE: AS SHOWN

PROJECT: USC SUMTER  
 PARKING LOT IMPROVEMENTS  
 PHASE 1 OF 2  
 PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA  
 CITY OF SUMTER SOUTH CAROLINA

DWG NAME	S1-46423239_G	SHEET	C1
N.B. NO.		OF	5
PROJECT NO.	46423239	FILE NO.	36,257-B90

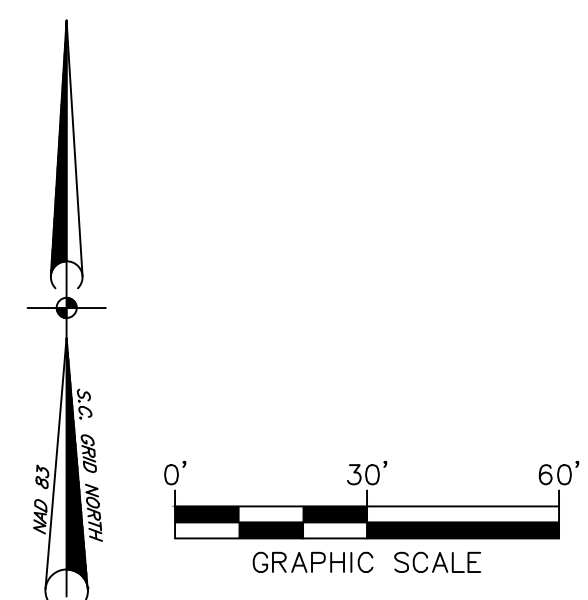
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**CONTROL POINTS**

**CP#1**  
 MAGNAIL  
 ELEVATION = 176.02'  
 NORTHING = 764427.3320'  
 EASTING = 2190120.7690'

**CP#2**  
 MAGNAIL  
 ELEVATION = 176.47'  
 NORTHING = 764393.4323'  
 EASTING = 2190322.5271'



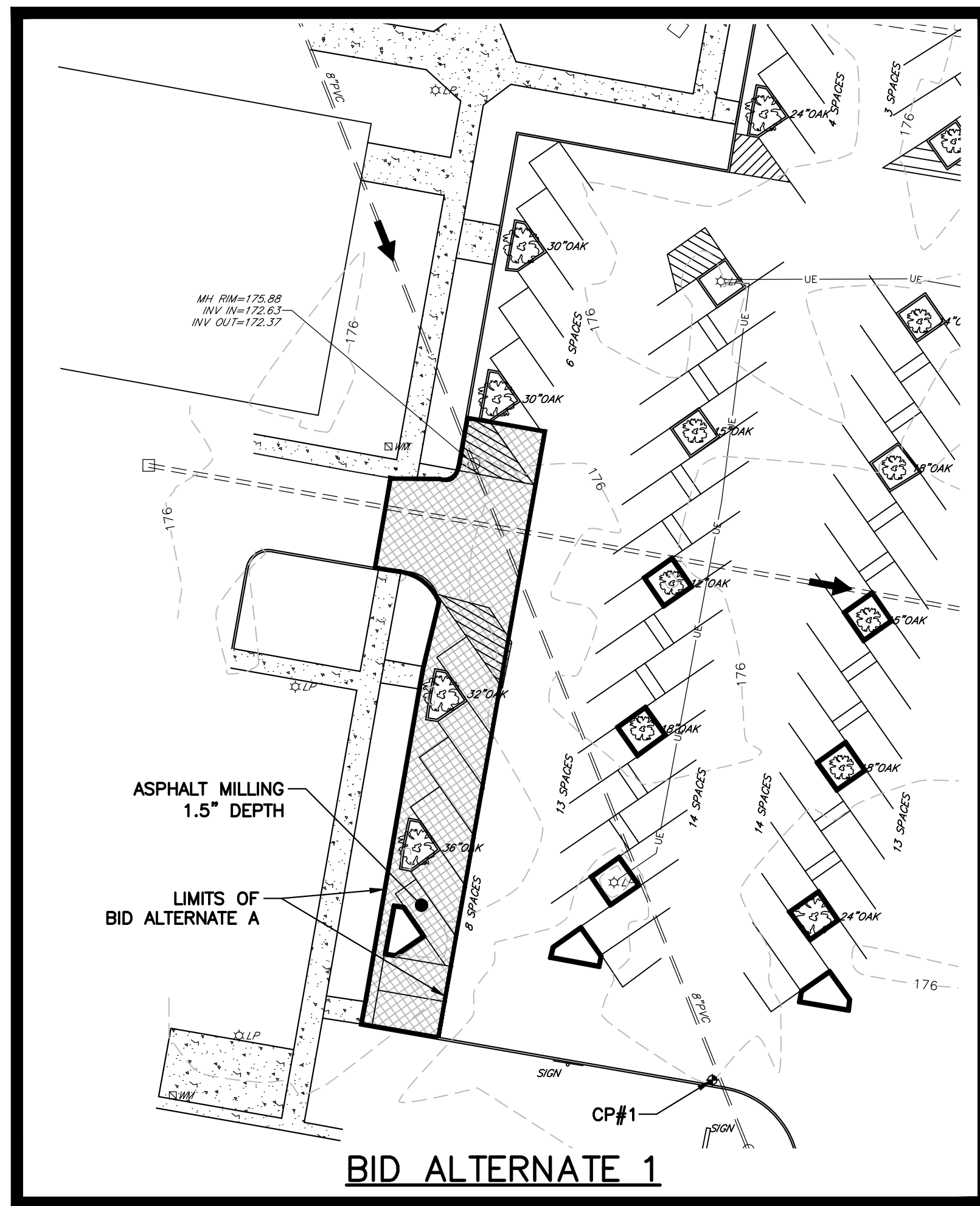
**STATE PROJECT NO.**  
**H39-9517-MJ-D**

**BID DOCUMENTS**

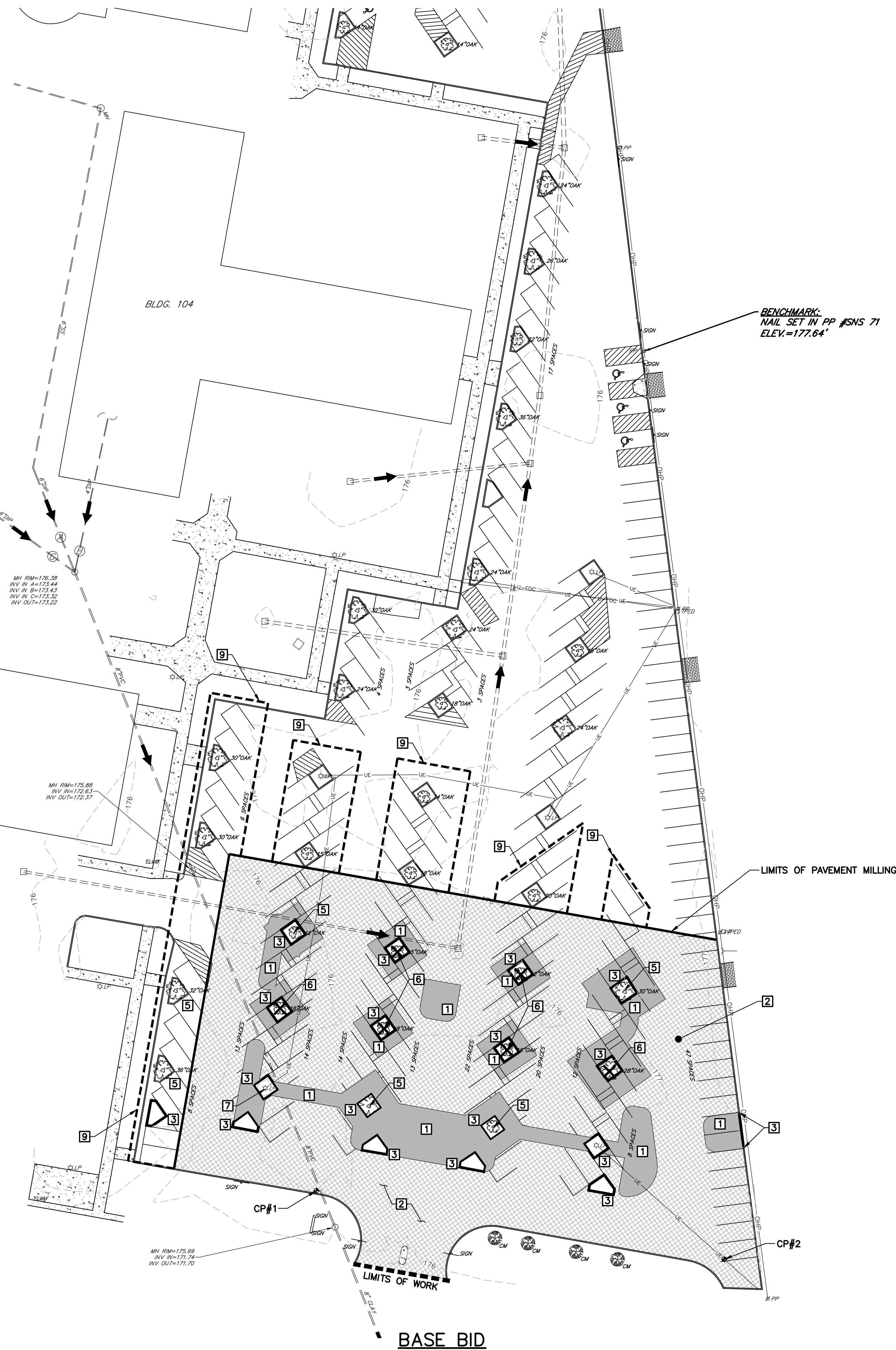
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

PROJECT <b>USC SUMTER          PARKING LOT IMPROVEMENTS          PHASE 1 OF 2</b> PREPARED FOR <b>THE UNIVERSITY OF          SOUTH CAROLINA</b> CITY OF SUMTER		SHEET TITLE <b>EXISTING          CONDITIONS PLAN</b>		DATE: JULY 17, 2014   SCALE: 1"=50'																																													
PROJECT NO. 46423239		SHEET NO. <b>C2</b>		OF <b>5</b>																																													
FILE NO. 36,257-B90		APPROVALS PROJECT ENG: [Signature] BET DESIGNED BY: [Signature] MDJ DRAWN BY: [Signature] MDJ CHECKED BY: [Signature] BET APPROVED: [Signature] BET		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DESCRIPTION	DATE	BY																																								
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URS CORPORATION 101 Research Drive Columbia, South Carolina 29203 Telephone (803) 254-4400; Fax (803) 771-6676 www.URSCorp.com		PROFESSIONAL ENGINEER CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 28538 DATE: 7-17-14		SIGNATURE [Signature]																																													

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**BID ALTERNATE 1**



**BASE BID**

**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 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 PRIOR TO CONSTRUCTION.
- 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.

**KEY NOTES**

- SAWCUT AND DEMOLISH ASPHALT PAVEMENT FULL DEPTH
- ASPHALT PAVEMENT MILLING - 1.5" DEPTH
- DEMOLISH CURB & GUTTER
- (NOT USED)
- TREE TO BE SAVED
- REMOVE TREE
- RELOCATE LIGHT POLE
- (NOT USED)
- REMOVE EXISTING STRIPING, USE BLACKOUT PAINT

**CONTROL POINTS**

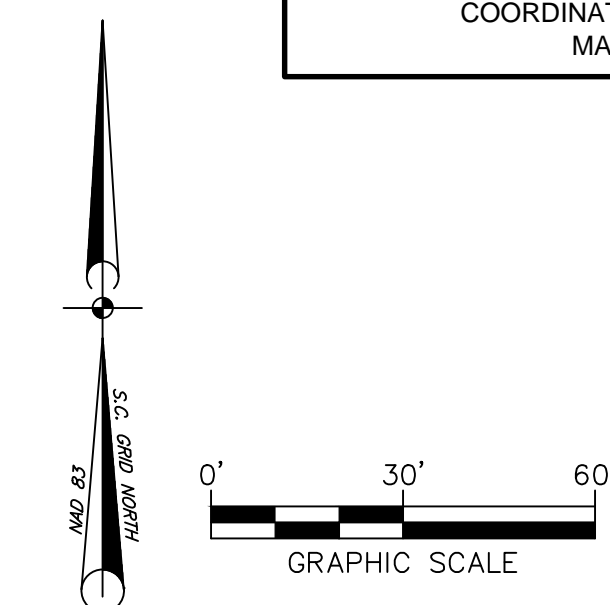
**CP#1**  
 MAGNAIL  
 ELEVATION = 176.02'  
 NORTHING = 764427.3320'  
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 MAGNAIL  
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 NORTHING = 764393.4323'  
 EASTING = 2190322.5271'

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA



PALMETTO UTILITY PROTECTION SERVICE, INC. (PUPS)

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



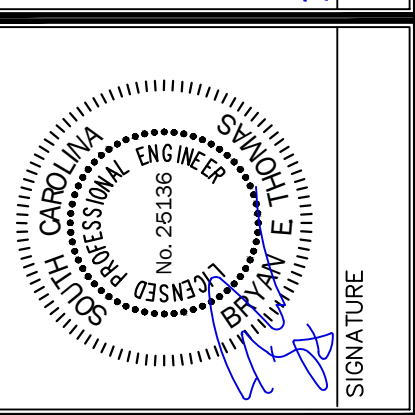
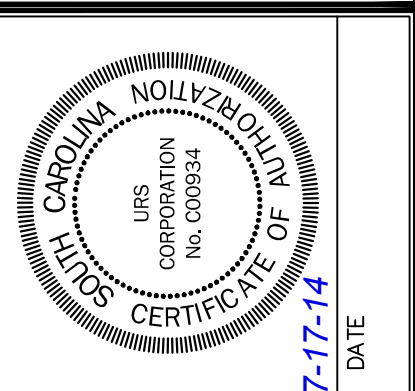
**STATE PROJECT NO.**  
H39-9517-MJ-D

**BID DOCUMENTS**

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

REVISIONS	
NO.	DESCRIPTION

APPROVALS	
PROJECT ENGR.	DESIGNED BY:



**URS**  
 101 Research Drive  
 Columbia, South Carolina 29203  
 Telephone (803) 254-4400; Fax (803) 771-6676  
 www.URS Corp.com

**DEMOLITION PLAN**  
 DATE: JULY 17, 2014 | SCALE: 1"=30'

PROJECT: USC SUMTER PARKING LOT IMPROVEMENTS PHASE 1 OF 2  
 PREPARED FOR: THE UNIVERSITY OF SOUTH CAROLINA  
 CITY OF SUMTER SOUTH CAROLINA

.DWG NAME 46423239_EX	SHEET C3
N.B. NO.	OF 5
PROJECT NO. 46423239	FILE NO. 36,257-B90



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## 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 CITY OF SUMTER 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 TESTING OF THE WATER 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 RESPADED ONSITE.
- 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

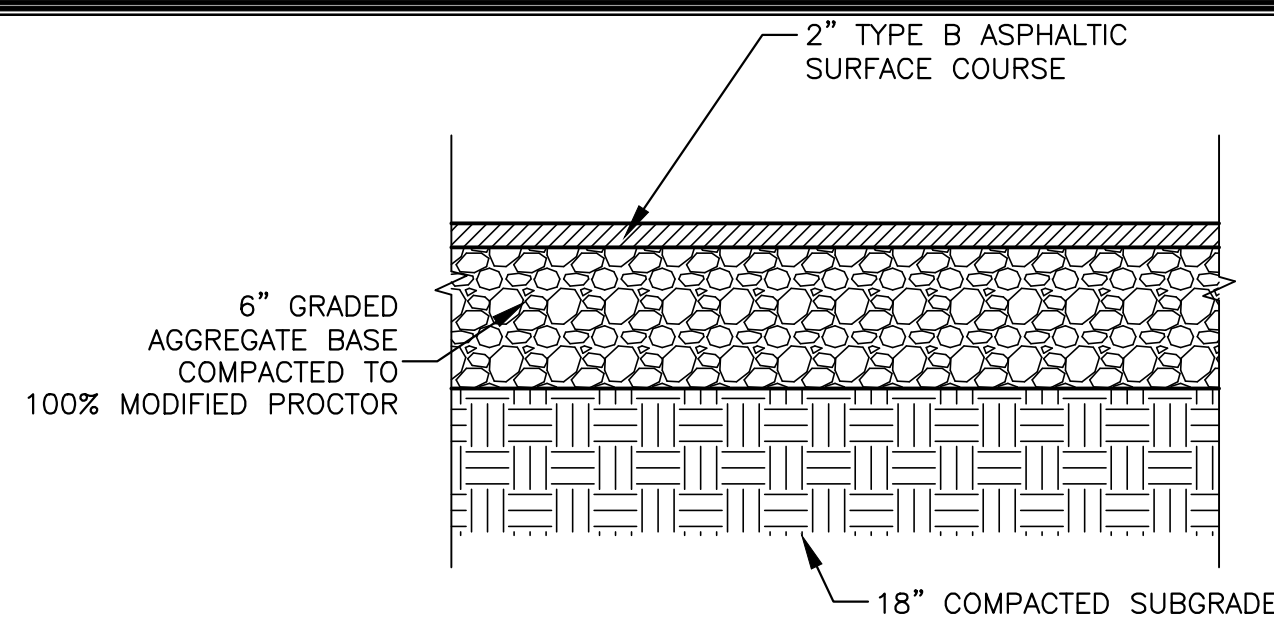
ALL SEDIMENT AND EROSION CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS. CONTRACTOR TO DOCUMENT WITH SCDHEC APPROVED INSPECTION REPORTS AND LOGGED IN THE PROJECT SWPPP.

## SCDHEC 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 BERMS 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 PERMITEE 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 PUMPED BACK 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 THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET. SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM 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 IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 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 LANE OR 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.

## CONSTRUCTION AND EROSION AND SEDIMENT CONTROL SEQUENCE

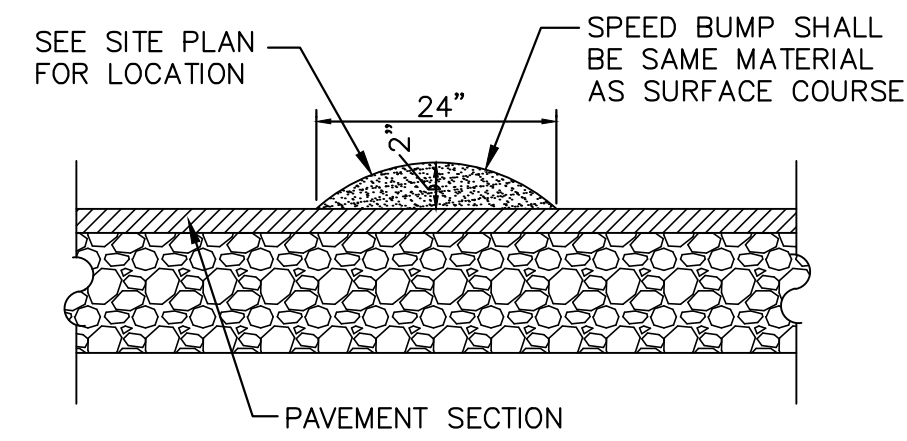
- RECEIVE NOTIFICATION OF NPDES COVERAGE FROM SCDHEC, COORDINATE PRE-CONSTRUCTION MEETING ON-SITE, AND NOTIFY SCDHEC EOC OFFICE AT LEAST 48 HOURS IN ADVANCE OF LAND DISTURBING ACTIVITIES.
- INSTALL EROSION CONTROL MEASURES AND BEGIN PERFORMING WEEKLY SCDHEC SWPPP INSPECTIONS UNTIL SITE IS PERMANENTLY STABILIZED.
- COMPLETE DEMOLITION ACTIVITIES AS SHOWN ON THE PLANS.
- STOCKPILE UNUSED MATERIALS AND STABILIZE AS NOTED ON THE PLANS.
- INITIATE PERMANENT VEGETATIVE STABILIZATION MEASURES AS FINAL GRADE IS REACHED IN AREAS TO REMAIN UNDEVELOPED. APPLY TEMPORARY VEGETATIVE STABILIZATION MEASURES TO AREAS TO BE DEVELOPED LATER.
- INSPECT AND MAINTAIN ALL STORMWATER CONTROLS AND SEDIMENT TRAPPING DEVICES UNTIL SITE IS STABILIZED.
- CONSTRUCT REMAINDER OF SITE IMPROVEMENTS AND INSTALL PERMANENT SITE STABILIZATION STRUCTURES.
- MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES UNTIL SITE STABILIZATION IS ACHIEVED.
- UPON COMPLETE STABILIZATION OF THE SITE, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND REMOVE SEDIMENT BUILD-UP FROM THE STORMWATER SYSTEM.
- SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AS APPROPRIATE (BY ENGINEER).



### ASPHALT PAVEMENT

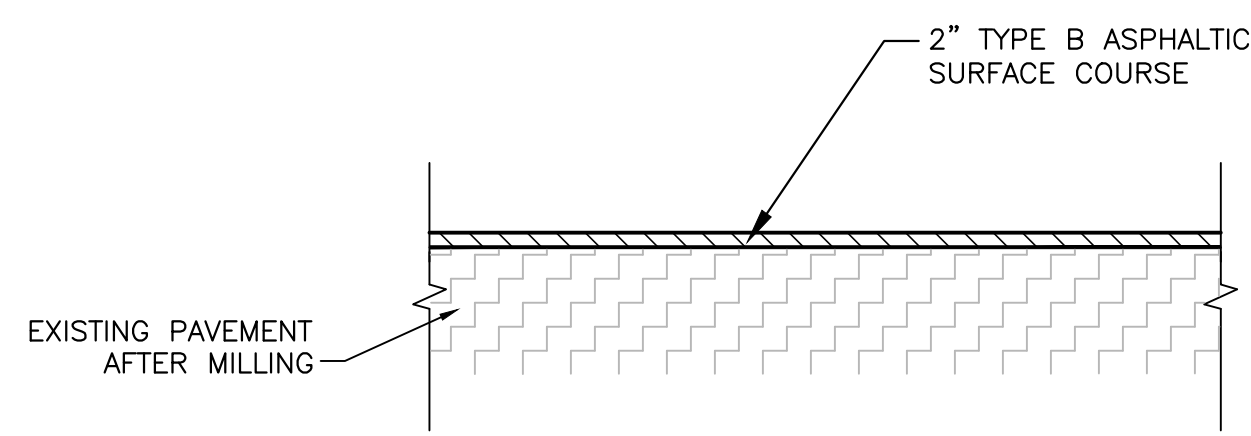
DETAIL 1 TYP SCALE: NONE

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



### SPEED BUMP

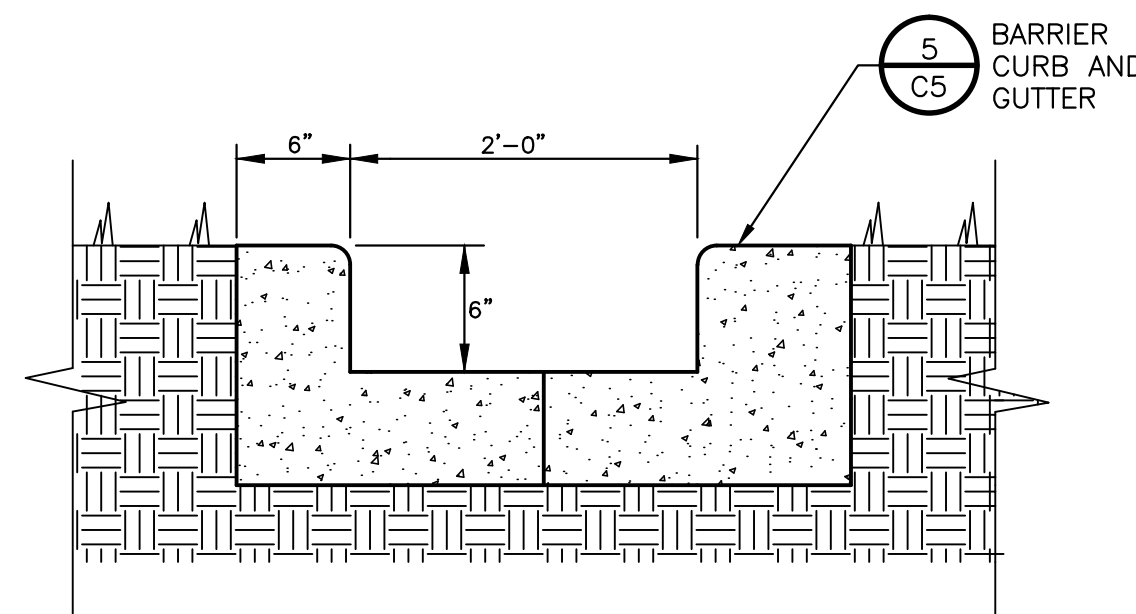
DETAIL 2 TYP SCALE: NONE



### ASPHALT PAVEMENT RESURFACE

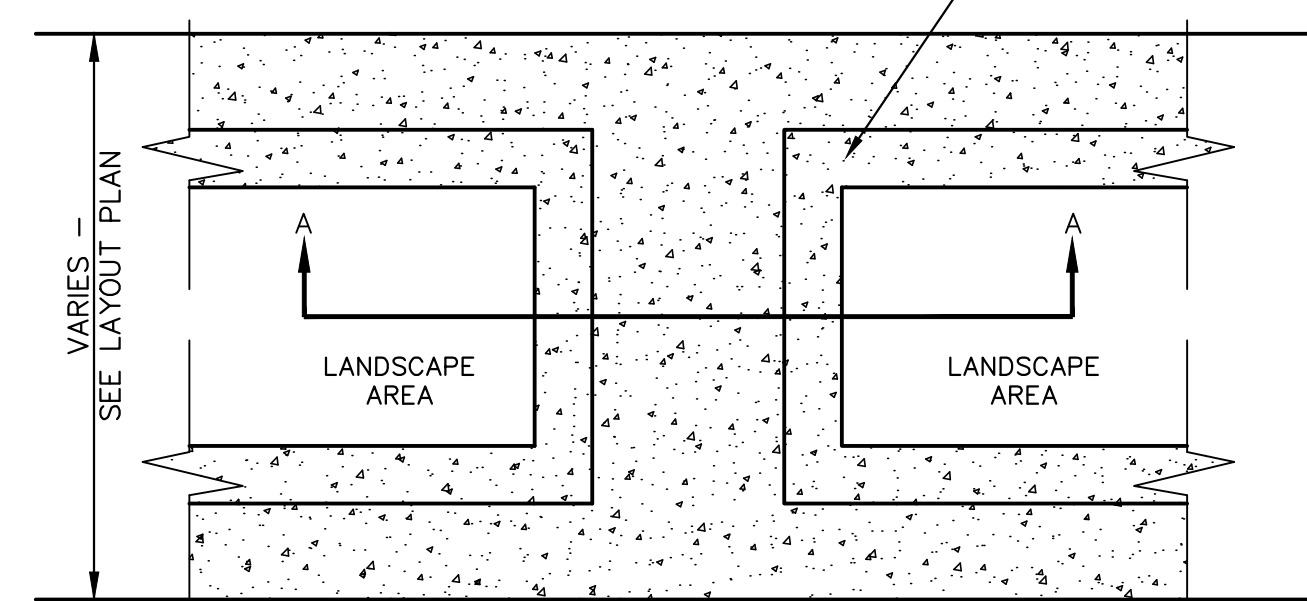
DETAIL 3 TYP SCALE: NONE

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



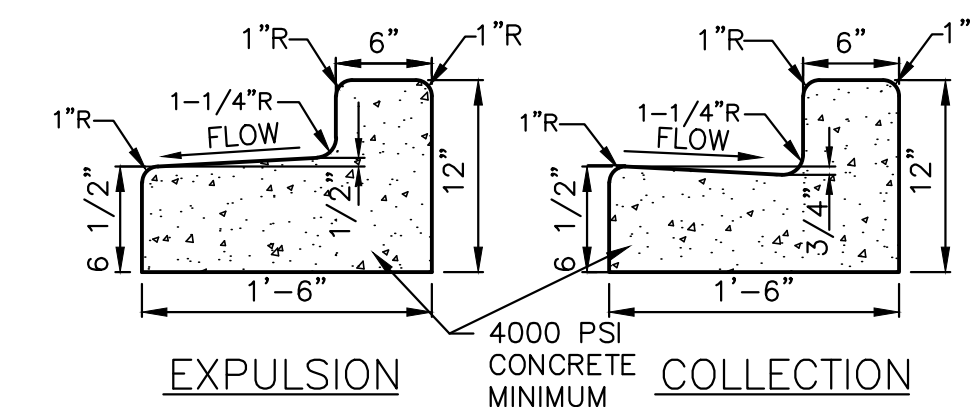
### SECTION A-A ELEVATION

DETAIL 5 TYP SCALE: NONE



### CONCRETE FLUME

DETAIL 4 TYP SCALE: NONE



### BARRIER CURB AND GUTTER

DETAIL 5 TYP SCALE: NONE



### PAINTED STOP BAR

SCALE: NONE

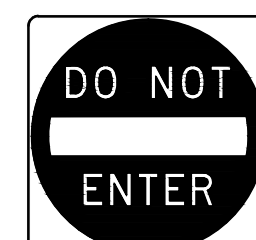
### NOTES:

- ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL MEET ALL REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- APPLY ALL ROADWAY STRIPING AND MARKINGS AS TEMPORARY PAINT IMMEDIATELY AFTER APPLICATION OF FINAL SURFACE.
- 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.
- PARKING LOT STRIPING MAY BE NON-REFLECTIVE ACRYLIC PAINT.
- SEE SCDOT STANDARD DRAWING NO. 625-410-00 AND LATEST REVISIONS AND SUPPLEMENTS FOR "DIRECTIONAL ARROWS" DETAILS.

### SEE SCDOT STANDARD DRAWING NO. 625-410-00 AND LATEST REVISIONS AND SUPPLEMENTS FOR "ARROWS" DETAILS.

## PAVEMENT STRIPING & MARKING STANDARDS

DETAIL 6 TYP SCALE: NONE



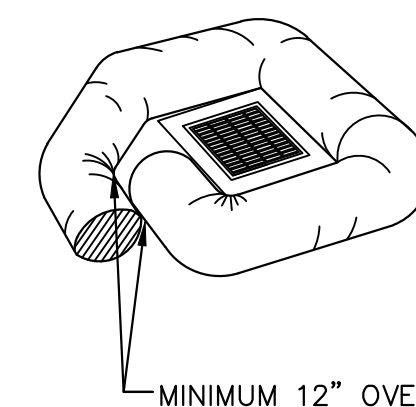
MUTCD NO. - R4-7a 24" x 30" MUTCD NO. - R2-1 18" x 24" MUTCD NO. - R1-1 30" x 30" MUTCD NO. - R5-1 30" x 30"

### 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 7 TYP SCALE: NONE



MINIMUM 12" OVERLAP

### 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 PAVED 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 8 TYP SCALE: NONE

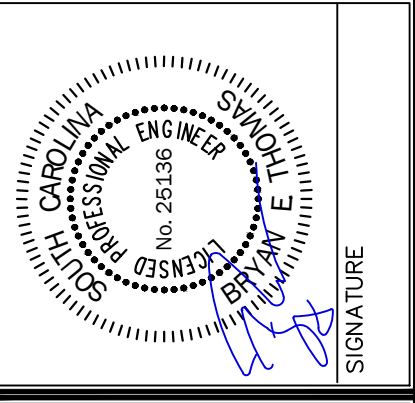
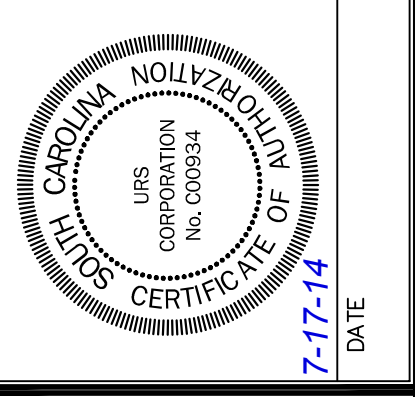
STATE PROJECT NO. H39-9517-MJ-D

### BID DOCUMENTS

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

NO.	DESCRIPTION	DATE	BY

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

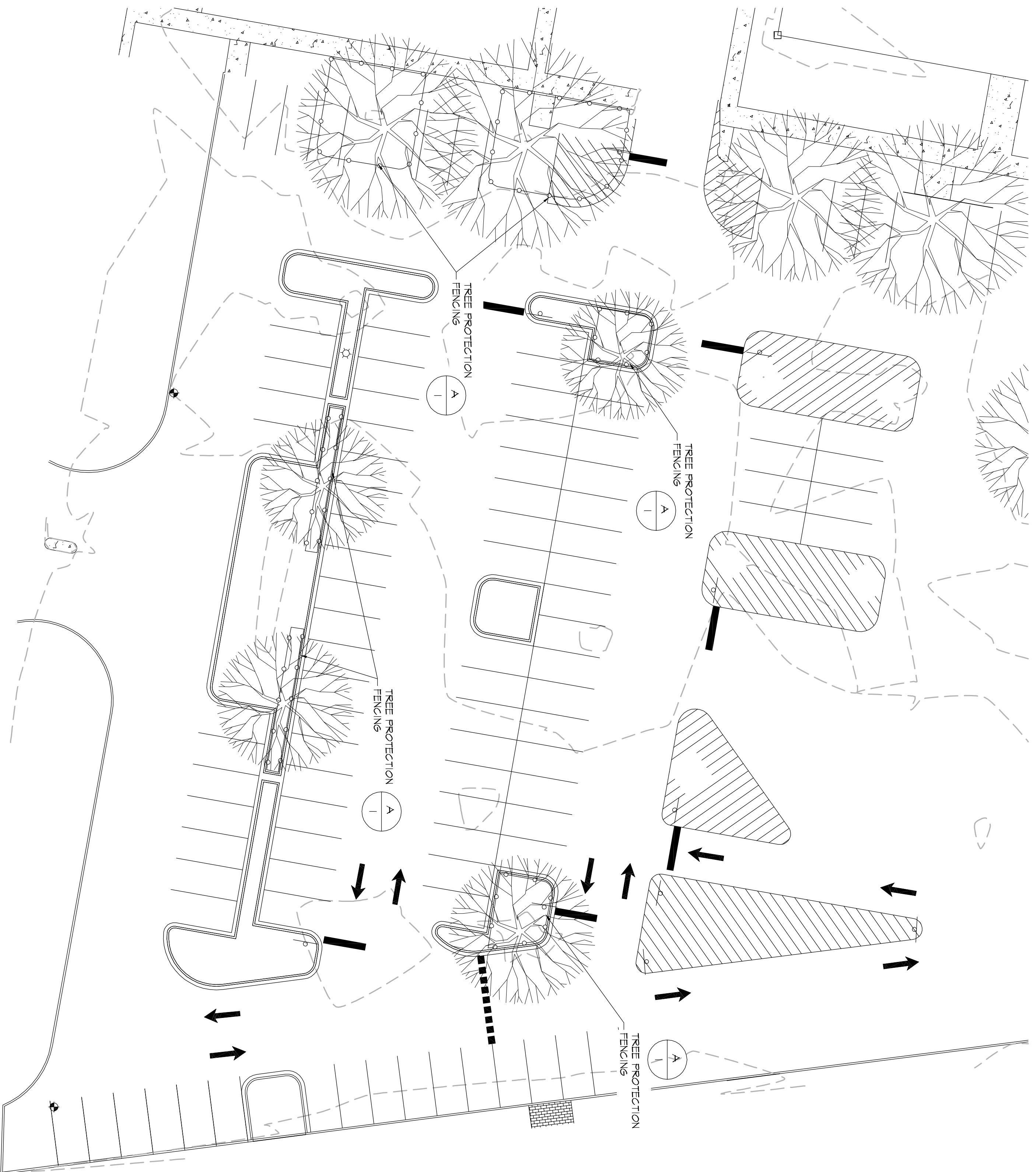


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**SITE DETAILS**

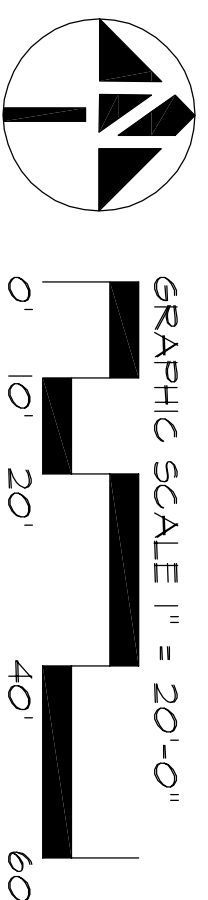
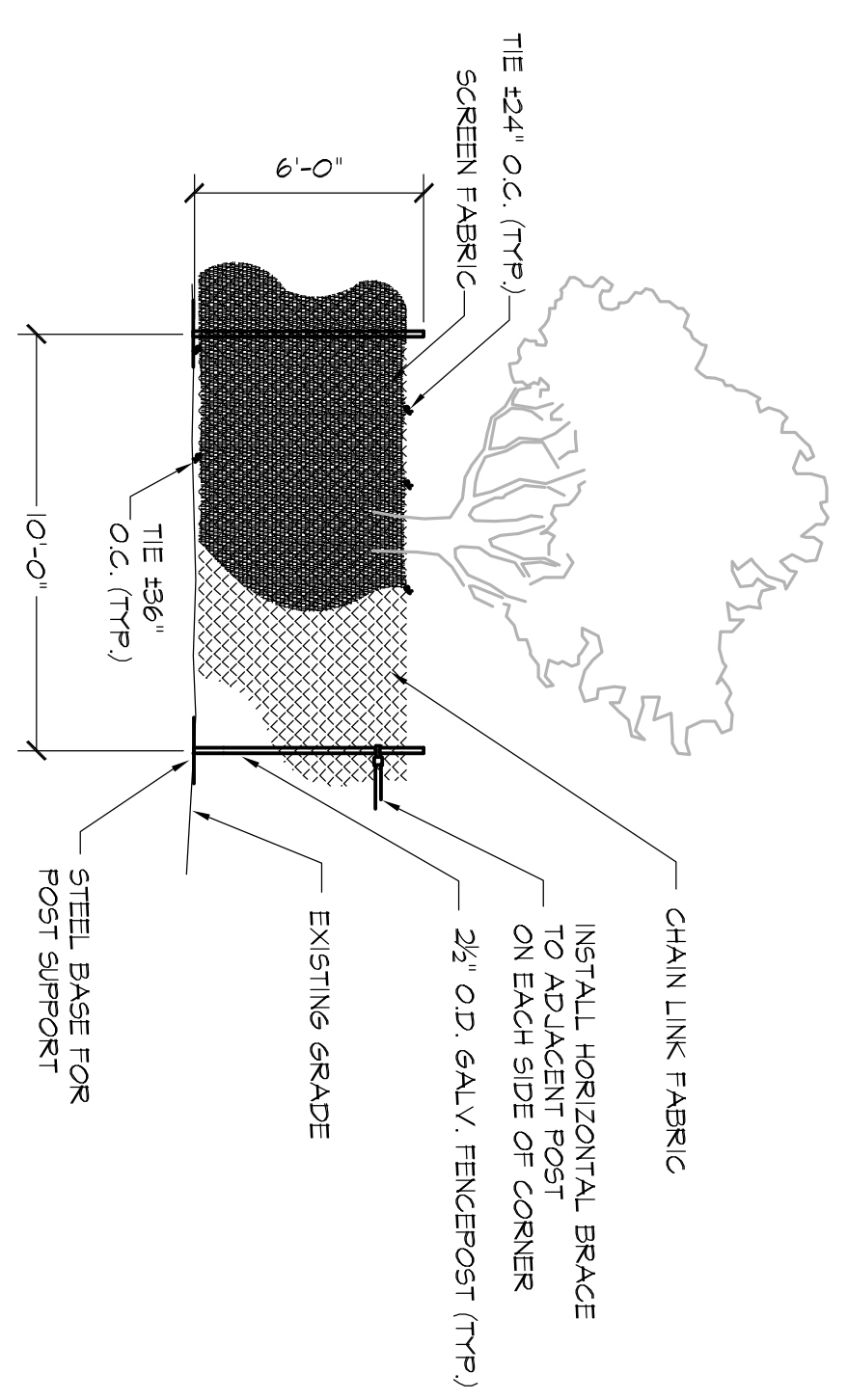
PROJECT: USC SUMTER PARKING LOT IMPROVEMENTS PHASE 1 OF 2 PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA CITY OF SUMTER SOUTH CAROLINA DATE: JULY 17, 2014 SCALE: AS SHOWN

.DWG NAME	SHEET
N.B. NO.	C5
REF.	OF
PROJECT NO.	5
46423239	
FILE NO. 36,257-B90	



**A**  
**L1**  
**TREE PROTECTION FENCING**  
**NOT TO SCALE**

- NOTES:**
- SEE LANDSCAPE PLANS FOR LOCATION OF TREE PROTECTION FENCING.
  - PROVIDE PROTECTION FENCE FOR ALL TREES TO REMAIN.
  - PROTECTION FENCING TO BE PLACED OUTSIDE OF DRIPLINE OF TREE CANOPY UNLESS OTHERWISE INDICATED ON LANDSCAPE PLAN OR APPROVED BY PROJECT MANAGER.
  - A 4" LAYER OF HARDWOOD MULCH SHALL BE PLACED OVER TREE PROTECTION AREA.
  - PROTECTION FENCING SHALL BE IN PLACE AND HARDWOOD MULCH PLACED PRIOR TO BEGINNING CONSTRUCTION.
  - PAVEMENT SHALL NOT BE APPROVED UNTIL PROTECTION FENCING AND MULCH IS IN PLACE.
  - LOCATION OF THE PROTECTION FENCING SHALL BE MARKED BY ARBORIST AND APPROVED BY PROJECT MANAGER BEFORE INSTALLATION. WHERE CONSTRUCTION IS LIKELY TO OCCUR WITHIN 5' OF PROPOSED LOCATION OF PROTECTION FENCING, CONTRACTOR SHALL HAVE LIMITS OF CONSTRUCTION MARKED BY SURVEY BEFORE PROTECTION FENCING IS INSTALLED.
  - SCREEN FABRIC SHALL BE DARK GREEN 85% OPACITY POLYETHYLENE KNOT MESH UV STABILIZED WITH BURST STRENGTH OF AT LEAST 210 P.S.I.
- NOTE:**  
THE FOLLOWING FENCING SPEC MAY ALSO BE USED FOR TREE PROTECTION FENCING:  
- PORTABLE CHAIN-LINK FENCING: MIN. 2" O.D. 1/4" THICK GALVANIZED STEEL CHAIN-LINK FABRIC FENCING, MIN. 8' HIGH WITH GALVANIZED STEEL PIPE POSTS, MIN. 2 1/2" O.D. LINE POSTS AND 2 1/2" O.D. CORNER AND PULL POSTS WITH 1 1/2" O.D. TOP AND BOTTOM RAILS. PROVIDE GALVANIZED STEEL BASES FOR SUPPORTING POSTS.



**STATE PROJECT NO.**  
H39-9517-MJ-D

**BID DOCUMENTS**

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

**GRIMBALL & ASSOCIATES COTTERILL**  
LANDSCAPE ARCHITECTS & LAND PLANNERS  
600 BELTLINE BOULEVARD  
COLUMBIA, SC 29205 (803) 738-9525

REGISTERED LANDSCAPE ARCHITECT  
No. 470  
STATE OF SOUTH CAROLINA  
COTTERILL  
SIGNATURE: *[Signature]* DATE:

PROJECT: USC SUMTER PARKING LOT IMPROVEMENTS PHASE 1 OF 2  
PREPARED FOR: THE UNIVERSITY OF SOUTH CAROLINA  
CITY OF SUMTER SOUTH CAROLINA

SHEET TITLE: BID ALTERNATE 2 TREE PROTECTION PLAN  
DATE: JULY 17, 2014 SCALE: AS SHOWN

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

SIGNATURE: DATE:

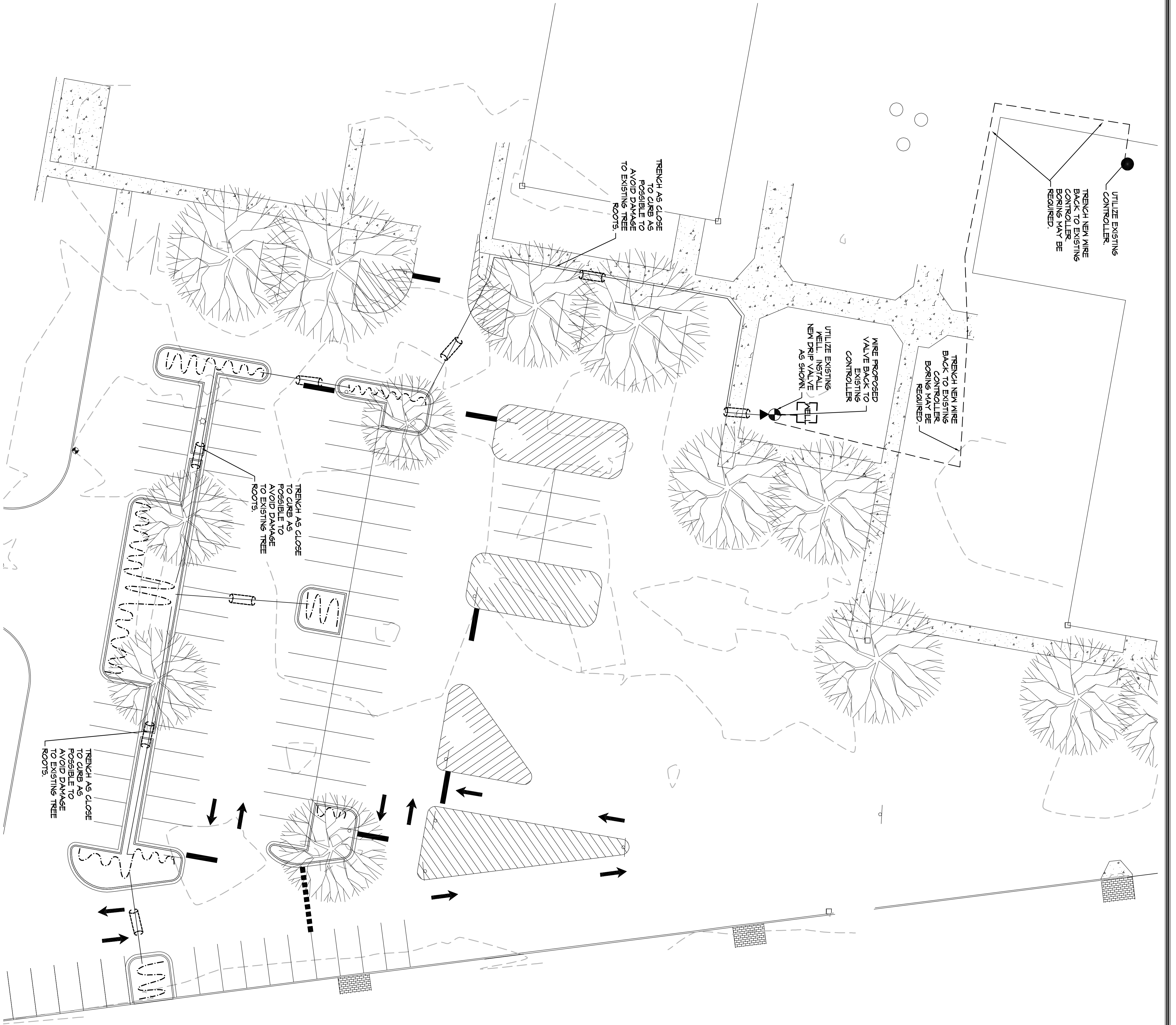
APPROVALS  
PROJECT ENG: **BET**  
DESIGNED BY: **MDJ**  
DRAWN BY: **MDJ**  
CHECKED BY: **BET**  
APPROVED: **BET**

REVISIONS			
NO.	DESCRIPTION	DATE	BY

PROJECT NO. 49423239  
SHEET L1 OF 4  
FILE NO. 36.257-B90

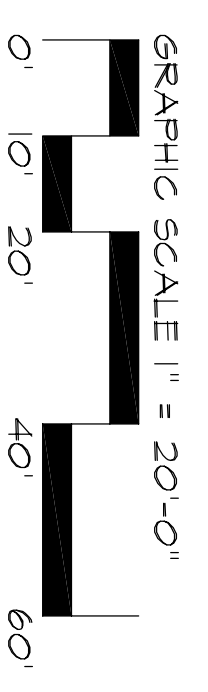
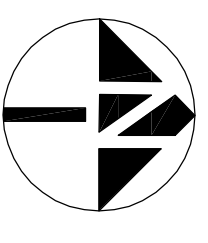




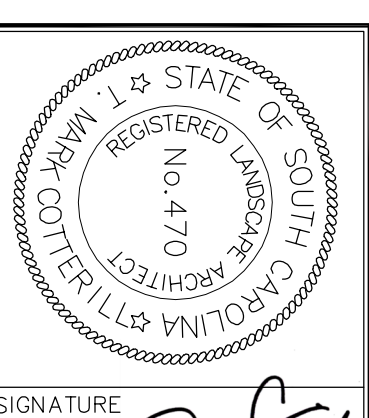


**IRRIGATION LEGEND**

- RAINBIRD P8A100 SERIES ELECTRIC VALVE
- ▲ XCZ-100-B-COM
- 1" MAINLINE
- 1" CLASS 160 OR 200 PVC PIPING
- ~ RAINBIRD DRIP TUBING WITH RAIN-BIRD EMITTERS
- 4" SCH. 40 PVC SLEEVING BORING REQUIRED



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COTTERILL**  
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**STATE PROJECT NO.**  
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PROJECT: USC SUMTER  
PARKING LOT IMPROVEMENTS  
PHASE 1 OF 2  
PREPARED FOR  
THE UNIVERSITY OF  
SOUTH CAROLINA  
CITY OF SUMTER SOUTH CAROLINA

SHEET TITLE  
BID ALTERNATE 2  
PLANTING PLAN  
DATE: **JULY 17, 2014** SCALE: **AS SHOWN**

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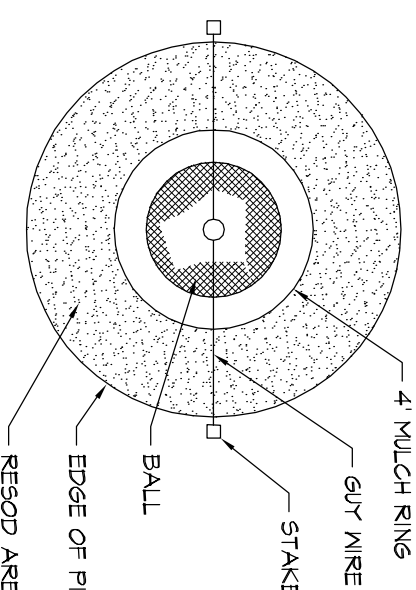
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REVISIONS			
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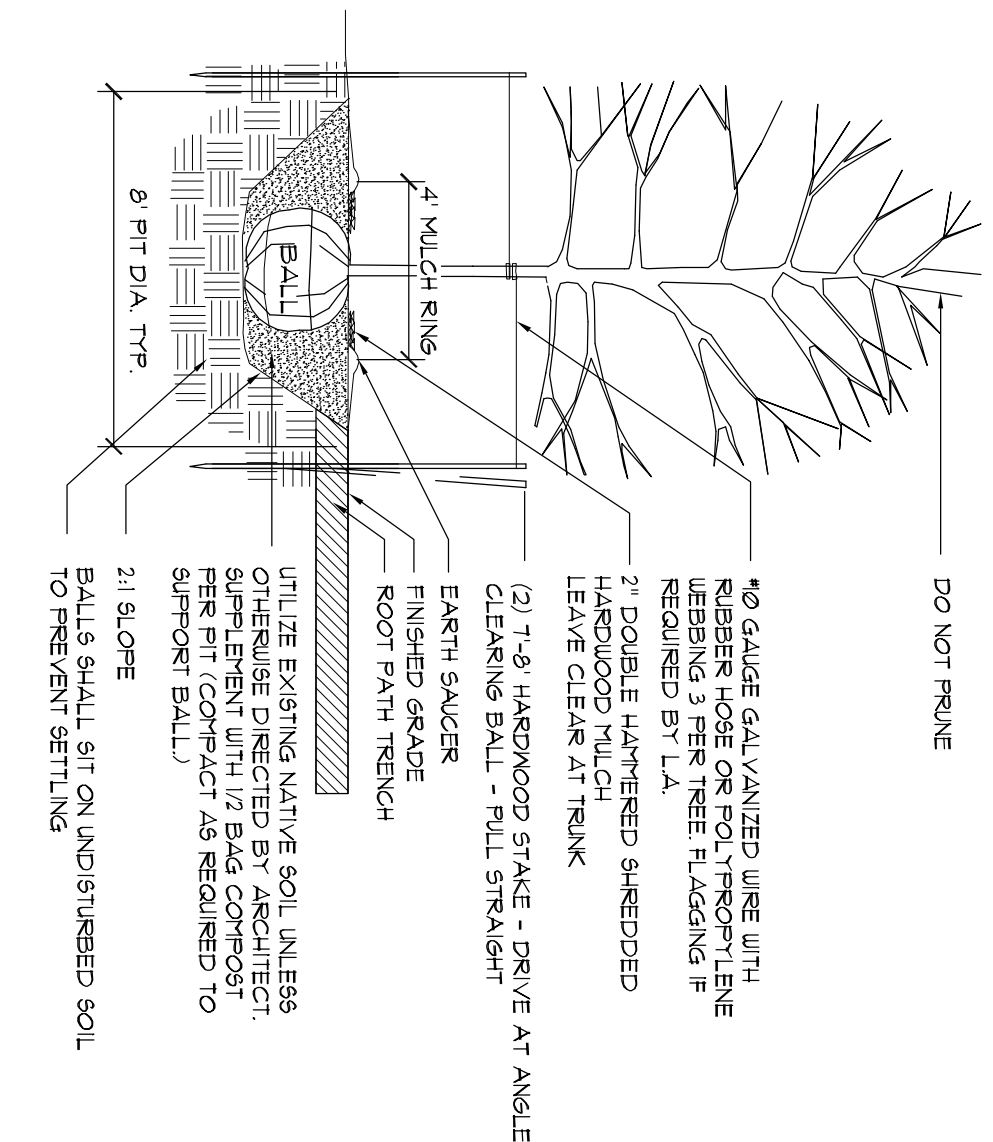
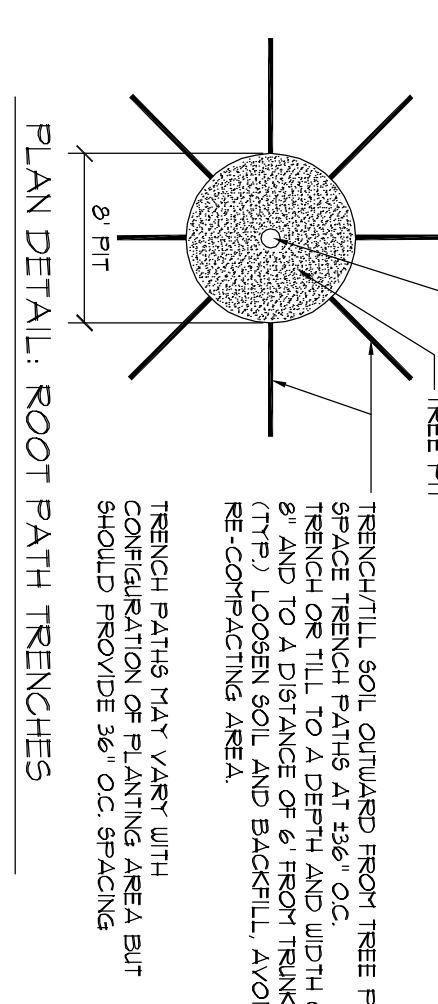
PROJECT NO. **48423239**

FILE NO. 36.257-B90

DATE: **JULY 17, 2014** SCALE: **AS SHOWN**



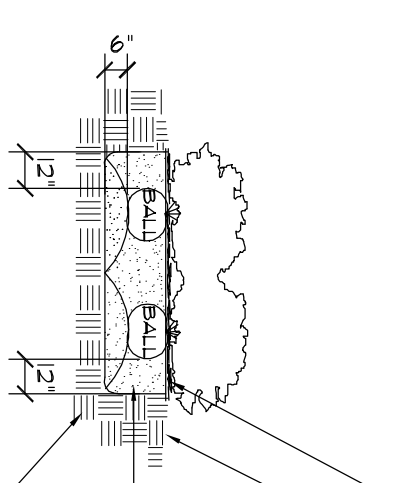
- NOTES:
1. TEST FOR PERCOLATION PRIOR TO PLANTING.
  2. WATER AFTER PLANTING.
  3. DO NOT WEAP TREES.
  4. REMOVE BULKY STRIPPINGS AND ROOTS FROM TOP 1/3 OF ROOT BALL.
  5. DIG TREE PIT WITH BACKHOE OR SIMILAR EQUIPMENT.
  6. NO TREE IS TO BE PLANTED LOWER THAN THE ELEVATION AT THE TREE'S PREVIOUS BUILT UP SOIL AS NECESSARY.



- DO NOT FRUITE
1. \*6 GAUGE GALVANIZED WIRE WITH RUBBER HOSE OR POLYPROPYLENE WEAVING 3 PER TREE FLAGGING IS REQUIRED BY L.A.
  2. DOUBLE LAYERED SHREDDED HARDWOOD MULCH
  3. DOUBLE LAYERED SHREDDED HARDWOOD MULCH
  4. (2) 1"-4" HARDWOOD STAKE - DRIVE AT ANGLE CLEARING BALL - PULL STRAIGHT
  5. EARTH SAUCER
  6. ROOT PATH TRENCH
  7. UTILIZE EXISTING NATIVE SOIL UNLESS OTHERWISE DIRECTED BY ARCHITECT
  8. SUFFICIENT WITH 1/2 BAGS COMPACT FERTILIZER REQUIRED TO FERTILIZE BALL
  9. BALLS SHALL SET ON UNDISTURBED SOIL TO PREVENT SETTLING
  10. 21" SLOPE

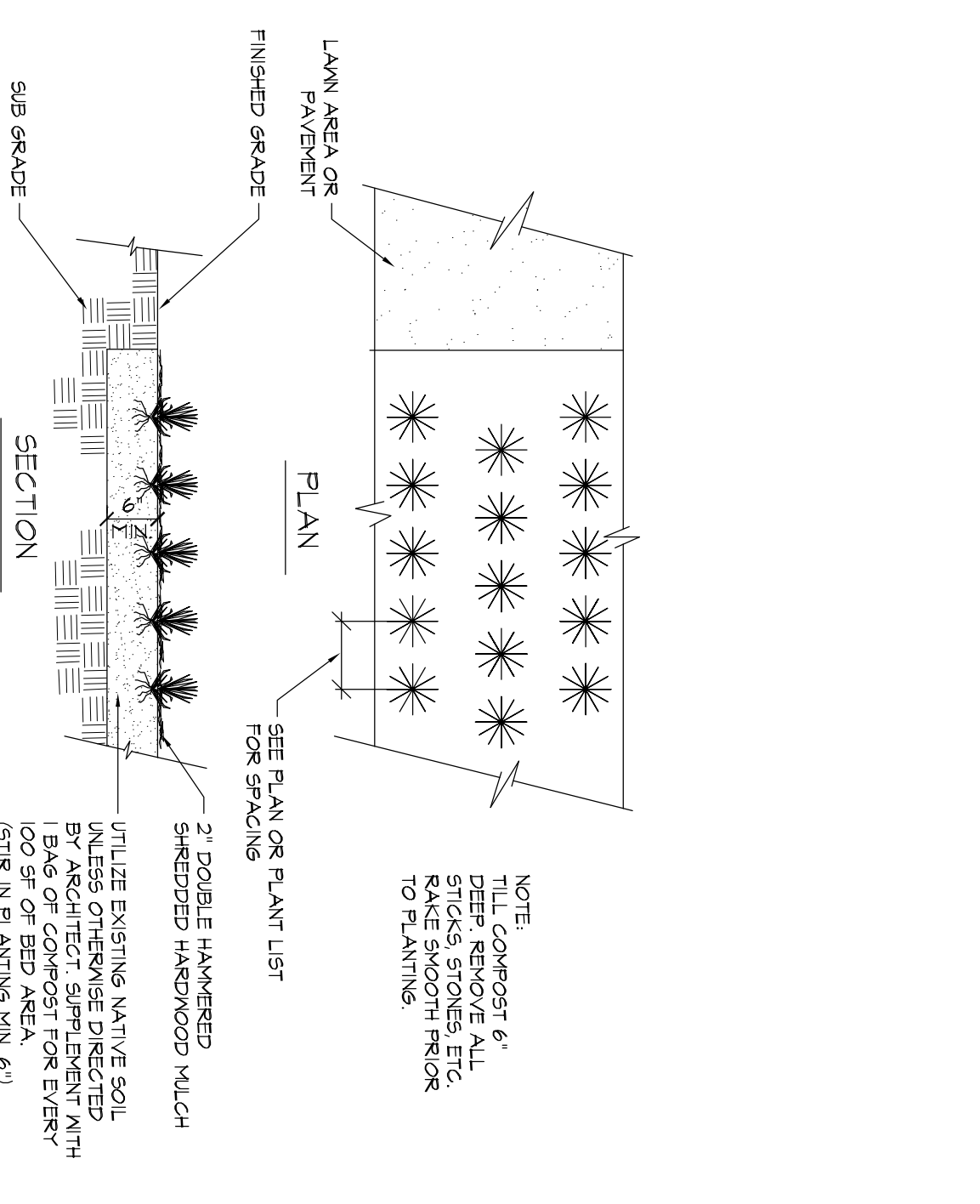
**A TREE PLANTING AND STAKING**

**B SHRUB PLANTING**



- PERCOLATION TEST HOLE
1. TEST FOR PERCOLATION PRIOR TO PLANTING.
  2. REMOVE PAPER PLASTIC OR METAL CONTAINERS
  3. WATER AFTER PLANTING
  4. DO BED PREPARATION ON ALL SHRUB & GROUNDCOVER AREAS

**C TYPICAL GROUNDCOVER PLANTING**

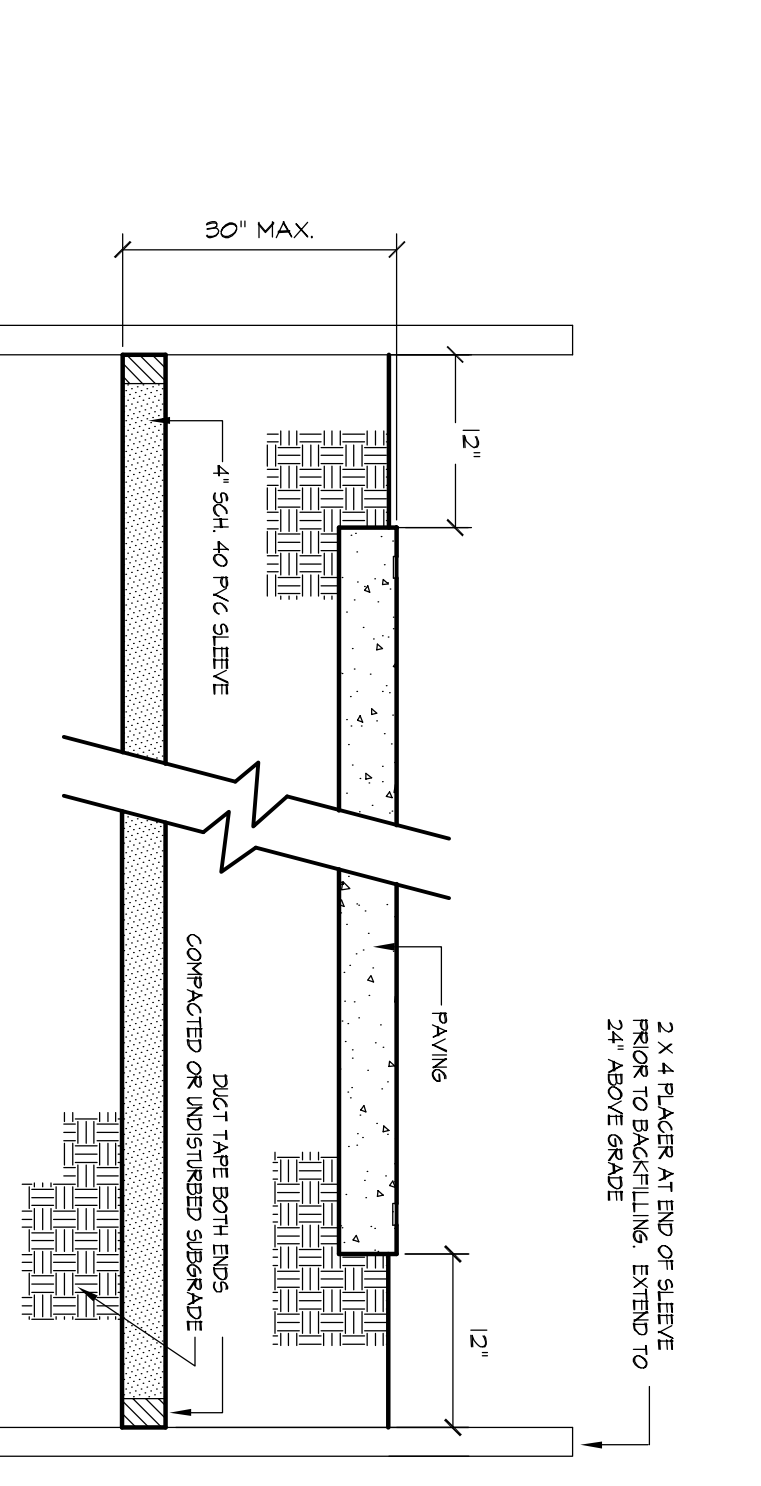
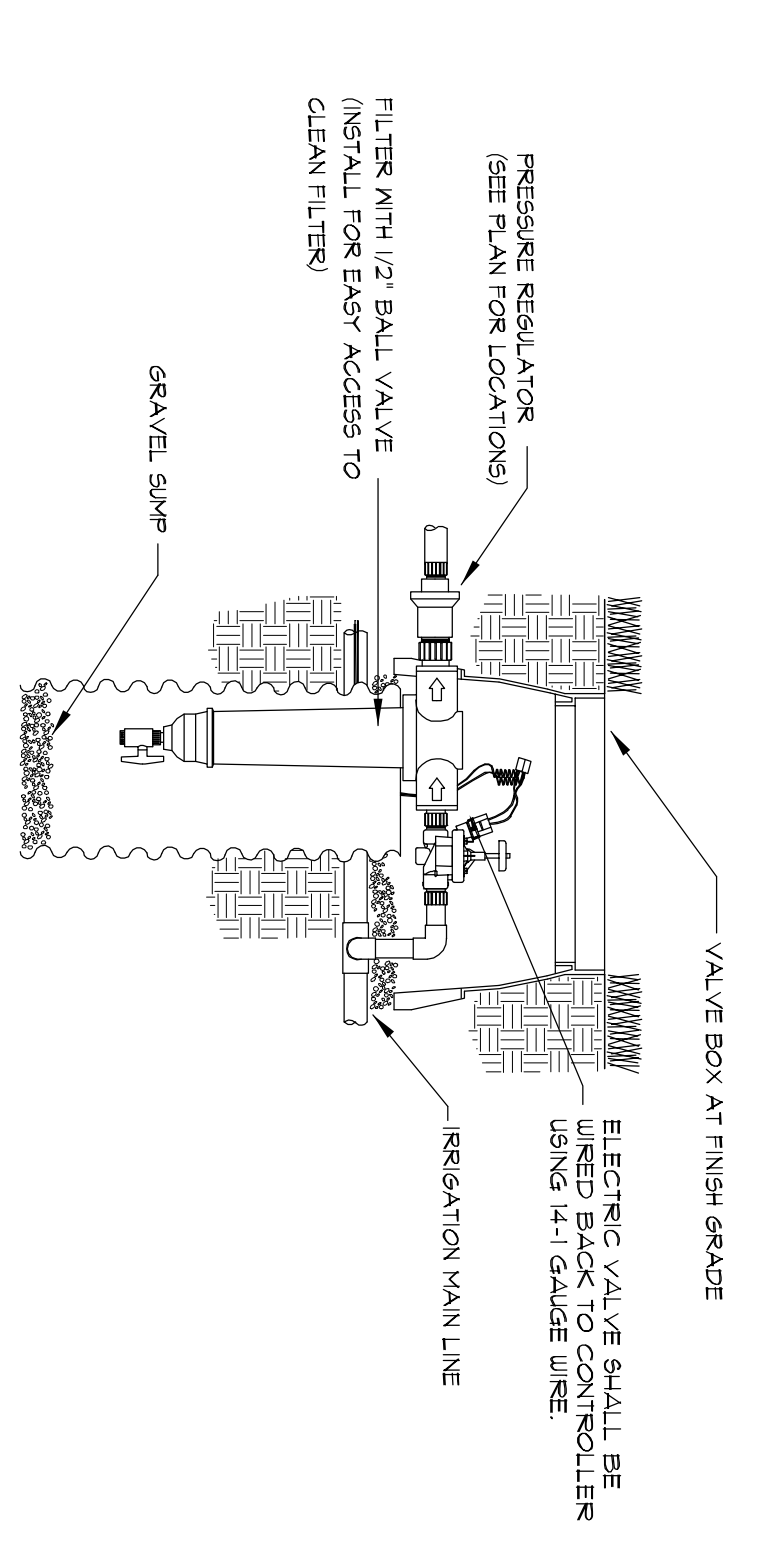


- INSTRUCTIONS FOR PERFORMING A PERCOLATION TEST
1. WITH A SHOVEL OR POSTHOLE DIGGER, DIG HOLE 18" TO 24" DEEP. HOLE DIAMETER SHOULD BE A MINIMUM OF 4 INCHES. THE DIAMETER OF THE HOLE SHOULD BE WIDER FROM TOP TO BOTTOM WITH THE BOTTOM BEING FLAT.
  2. FILL HOLE WITH WATER TO THE TOP AND LET STAND FOR AT LEAST AN HOUR TO RE-MOISTEN THE SOIL.
  3. REFILL HOLE TO WITHIN A COUPLE INCHES OF THE TOP. DON'T OVERFLOW THE HOLE.
  4. TO ADD AN MEASUREMENT, PLACE A STICK ACROSS THE TOP OF THE HOLE AND USE A RULER OR MEASURING TAPE TO MARK PERIOD DROPS IN WATER LEVEL.
  5. ALLOW THE HOLE TO DRAIN FOR AT LEAST ONE HOUR. A LONGER PERIOD OF TIME (2 TO 3 HOURS) WILL GIVE A MORE ACCURATE READING OF AVERAGE PERCOLATION RATES.
  6. DETERMINE AVERAGE DROPS IN WATER LEVEL PER HOUR AND REFER TO THE TABLE BELOW TO INTERPRET RESULTS.

HOW TO INTERPRET RESULTS	SITE IS...
IF WATER LEVEL IN HOLE DROPS...	POPULY DRAINED AND SUITED TO NET-SITE SPECIES
LESS THAN ONE-HALF INCH PER HOUR	MODERATELY WELL DRAINED AND INCLUDING NET-SITE SPECIES
ONE HALF-INCH TO ONE INCH PER HOUR	WELL DRAINED AND SUITABLE FOR ALL SPECIES INCLUDING SENSITIVE SPECIES
MORE THAN ONE INCH PER HOUR	

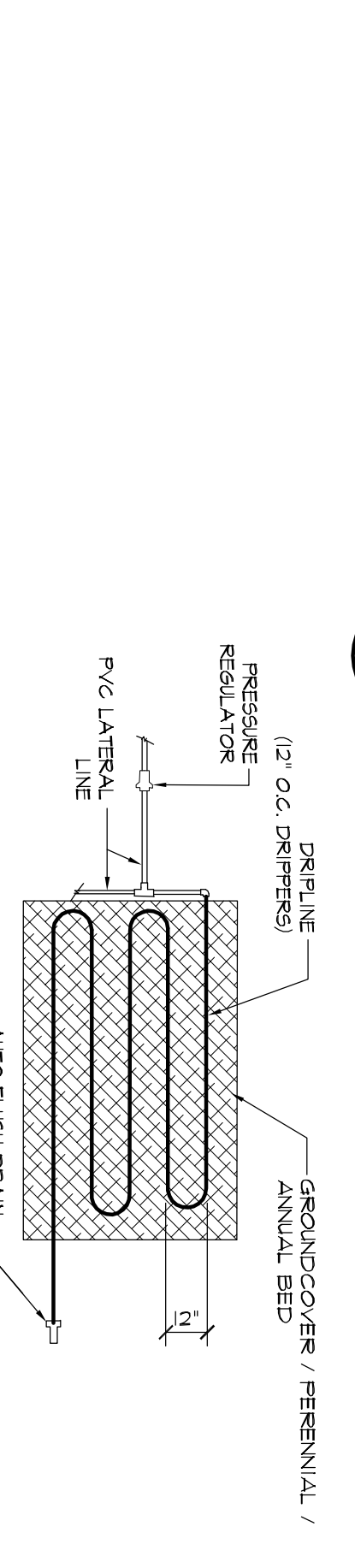
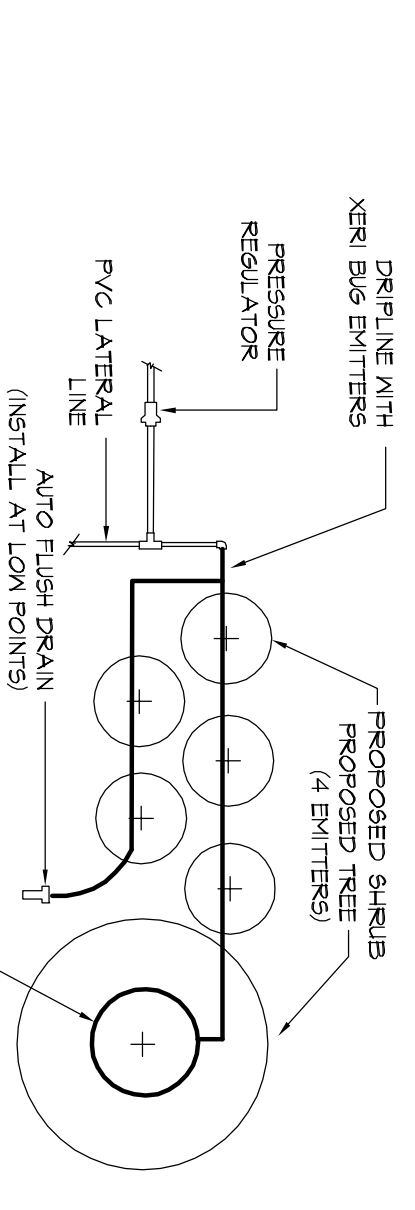
**D PERCOLATION TEST**

**E SLEEVING DETAIL**



**D ELECTRIC VALVE-DRIP ZONE**

**E SLEEVING DETAIL**



**F DRIPLINE IN SHRUBS**

**G DRIPLINE IN GROUNDCOVER**

**PLANTING NOTES**

1. PLANTS LABELED NO ARE NOT IN CONTRACT AND ARE NOT A PART OF THIS PHASE OF WORK.
2. REQUIREMENTS FOR THE NEARBY'S BRANCHING, GRADING, QUALITY, BALLING AND BULKING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOW A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS. SEE THE PLANT LIST FOR MORE RESTRICTIVE REQUIREMENTS.
3. ALL PLANTS SHALL HAVE A WELL-FORMED HEAD WITH MINIMUM CALIBER HEIGHT AND SPREAD OF THE SIZE RANGES AS SHOWN ON THE PLANT LIST. TREES SHALL BE UNDAUNTED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.
4. MEASUREMENT OF CONFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEAR'S VERTICAL GROWTH (TOP CANDED).
5. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE RECHECKED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO BEGINNING ANY PLANTING THIS.
7. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE DRAINAGE PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. LANDSCAPE ARCHITECT SHALL VERIFY ADEQUATE PERCOLATION TESTING. THE SOIL AT GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SWEEP SHALL BE INSTALLED OR THE PLANTING RELOCATED.
8. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL IMPAIR THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IMMEDIATELY. THE HEALTH AND VIGOR OF THE PLANTS IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY IS TO VERIFY THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.
9. PLANTING FITS FOR TREE AND SHRUBS SHALL BE PREPARED AS PER DETAILS.
10. DOUBLE LAYERED SHREDDED HARDWOOD MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE CONTRACTOR. BEDS SHALL BE PREPARED WITH PREDETERMINED PERIODS BY THE CONTRACTOR BEFORE PLANTING. MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE CONTRACTOR BEFORE PLANTING. HARDWOOD MULCH SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
11. ALL TREES ARE TO BE STAKED HANDED-AFTER PLANTING AS DETAILED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF STAKING HOSES, ETC. AT THE END OF THE ONE YEAR GUARANTEE PERIOD.
12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PLANTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL MULCH AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.
13. PLANTS SHALL BE GUARANTEED FOR THE PERIOD OF ONE (1) FULL YEAR AFTER THE FINAL ACCEPTANCE OF THE PLANTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF PLANTS THAT DO NOT SURVIVE. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. PLANTS SEVERELY DAMAGED BY WEATHER SHALL BE REPLACED BY THE CONTRACTOR DURING THE ONE YEAR GUARANTEE PERIOD.
14. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF PLANTS THAT DO NOT SURVIVE. REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN DATE OF SATISFACTORY REPLACEMENT.
15. SHOULD THE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE CONTRACTOR, MAY REPLACE THE PLANTS AT HIS OWNERS RISK AND AT HIS OWNERS COST. THE CONTRACTOR MAY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS THAT DO NOT SURVIVE. REPLACEMENTS HAVE BEEN MADE IN ACCORD WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.
16. NO EXCAVATION OR PLANTING FIT SHALL BE LEFT OPEN OR UNATTENDED OVERNIGHT.
17. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL QUANTITIES. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES IS NOT POSSIBLE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANTING PLAN. THE CONTRACTOR SHALL TAKE PRECEDENCE.

**IRRIGATION NOTES**

1. ALL PLASTIC PIPE FITTINGS TO BE MINIMUM SCHEDULE 40 PVC.
2. ALL MAIN LINES TO BE SCHEDULE 200 PVC OR SCHEDULE 300 PVC.
3. ALL LATERAL LINES TO BE SCHEDULE 200 PVC OR SCHEDULE 160 PVC.
4. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF SCHEDULE 40 PVC PIPE UNDER PAVED SURFACES AS NOTED ON THE DRAWINGS TO BE FILLED FOR IRRIGATION SLEEVING. THE LOCATION OF SLEEVING IS MARKED ON THE IRRIGATION PLAN. DEVIATIONS MAY OCCUR DURING CONSTRUCTION.
5. TRENCHES FOR PVC PIPE MAINLINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 18" MINIMUM AND AN SUFFICIENT WIDTH TO PERMIT PROPER HANDLING AND INSTALLATION OF PIPE AND FITTINGS. TRENCHES FOR PVC PIPE LATERAL SPRINKLER LINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 12" MINIMUM AND AN SUFFICIENT WIDTH TO PERMIT PROPER HANDLING AND INSTALLATION OF PIPE AND FITTINGS.
6. ALL CONTROL VALVES SHALL BE INSTALLED IN A VALVE BOX IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
7. ALL WORK TO BE USED FOR CONNECTING THE AUTOMATIC REMOTE CONTROL VALVE TO THE AUTOMATIC CONTROLLER SHALL BE TYPE UF-141 STRANDED OR SOLID COPPER SINGLE CONDUCTION WIRE WITH PVC INSULATION AND BEAR THE APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE. WIRE CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND SHALL BE MADE IN THE FIELD SHALL BE MADE IN THE FIELD.
8. THE IRRIGATION CONTRACTOR SHALL CONNECT ALL VALVE ARISING TO A SPECIFIED CONTROLLER LOCATED AS NOTED ON THIS PLAN.
9. ALL CONTROL VALVE CABLES SHALL BE INSTALLED BY DIRECT BURIAL AT A MINIMUM DEPTH OF 12" WHERE PRACTICAL, THE WIRE SHALL BE INSTALLED IN THE SAME TRENCH AS THE MAINLINE PIPE.
10. AFTER COMPLETION OF THE PIPING INSTALLATION, THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" DRAWING SHOWING ALL SPRINKLER HEADS, VALVES, DRAINS AND PIPE LINES TO SCALE WITH DIMENSIONS. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND APPROVED BY THE OWNER AND ARCHITECT. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND APPROVED BY THE OWNER AND ARCHITECT. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND APPROVED BY THE OWNER AND ARCHITECT.
11. FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL PROTECT THE IRRIGATION SYSTEM FROM VANDALISM OR MISUSE.
12. DURING THE LAST MONTH OF THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT AND CONTRACTOR SHALL CONDUCT A VISUAL INSPECTION OF THE IRRIGATION SYSTEM TO DETERMINE IF THE SYSTEM IS OPERATING PROPERLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DEFECTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DEFECTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DEFECTS.

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**COTTERILL**  
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 Columbia, SC 29205 (803) 738-9525

STATE OF SOUTH CAROLINA  
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 No. 470  
 GRIMBALL & ASSOCIATES  
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 SIGNATURE: [Signature] DATE: [Date]

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 SOUTH CAROLINA

CITY OF SUMTER SOUTH CAROLINA

SHEET: **L4** OF 4

DATE: **JULY 17, 2014** SCALE: **AS SHOWN**

SHEET TITLE: **BID ALTERNATE 2 PLANTING PLAN**

APPROVALS:

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