

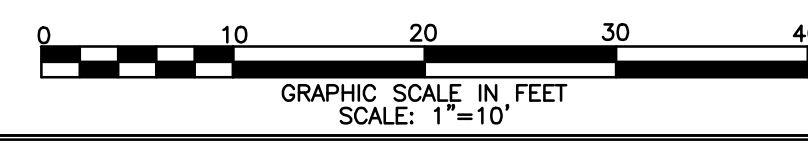


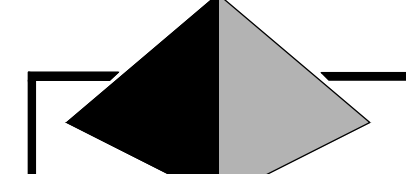
NOW OR FORMERLY
Carolina Walk, LLC
IMS#11205-01-00

NOW OR FORMERLY
University of
South Carolina
IMS#11205-01-09A

The Palmetto Utility Protection Service, Inc.
South Carolina 811
 CALL 811 Before You Dig!
 3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
 CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY
 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

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

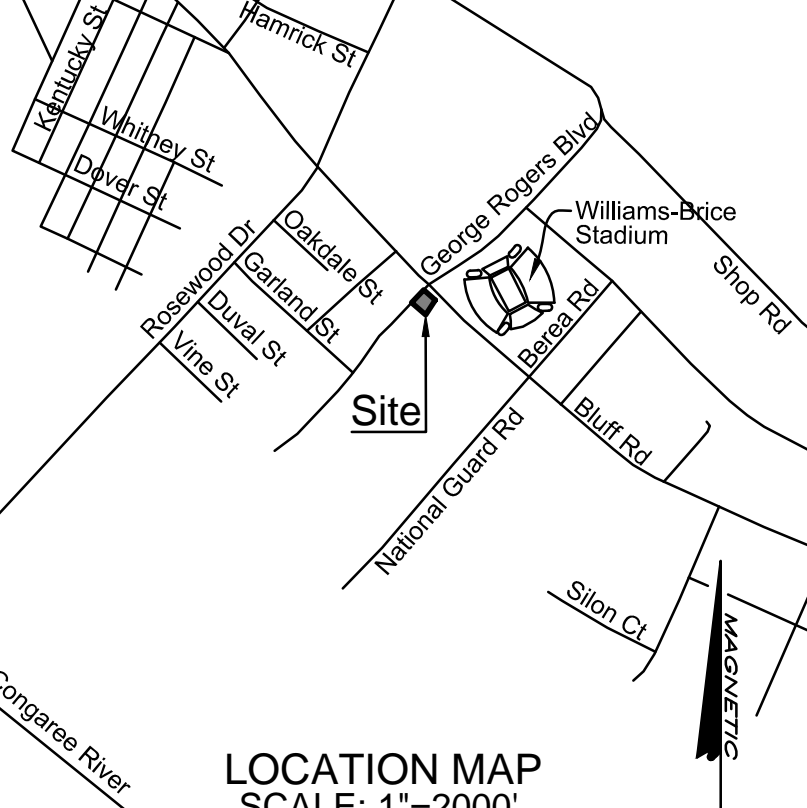




COX AND DINKINS
ENGINEERS - SURVEYORS

COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com
C&D PROJECT# 1537

LOCATION MAP
SCALE: 1"=2000'



DEMOLITION LEGEND

1 EXISTING PAVEMENTS AND BASE TO BE DEMOLISHED AND DISPOSED OF PROPERLY.

CODED DEMOLITION NOTES

- EXISTING CURB & GUTTER, WALKWAYS, PAVEMENTS, BASE AND CONCRETE SIDEWALK TO BE DEMOLISHED AND DISPOSED OF PROPERLY. REMOVAL INCLUDES VARIOUS CURBS, BOLLARDS, LIGHTING, AND ALL OTHER SITE ELEMENTS CONTAINED WITHIN THE PAVEMENT REMOVAL LIMITS.
- SAW CUT EXISTING PAVEMENT ALONG THIS LINE.
- CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY PROVIDER FOR REMOVAL OF UNDERGROUND ELECTRICAL LINE AS NECESSARY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
- EXISTING FENCE TO BE DEMOLISHED AND DISPOSED OF PROPERLY.
- CATCH BASIN TO REMAIN.
- EXISTING BRICK WALL, FOUNDATION, AND FENCE TO BE DISPOSED OF PROPERLY. SEE LANDSCAPE PLAN FOR MORE INFORMATION.
- CONTRACTOR SHALL COORDINATE WITH OWNER FOR TREE(S) TO BE RELOCATED. SEE LANDSCAPE PLAN FOR MORE INFORMATION.
- CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY PROVIDER AS NECESSARY FOR CONVERSION OF EXISTING WATER METER TO IRRIGATION METER.
- CONTRACTOR SHALL COORDINATE WITH OWNER FOR SIGN TO BE RELOCATED.
- CONTRACTOR SHALL SEE LIGHTING PLAN FOR MORE INFORMATION ON FIXTURES TO REMAIN OR BE RELOCATED.

DEMOLITION/CLEARING NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS TO BE DEMOLISHED AND REMOVED FROM THE SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THERE SHALL BE NO BURNING ON SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL AND/OR RELOCATION OF ALL UTILITIES (ABOVE AND BELOW GROUND LEVEL) AS NECESSARY TO ACCOMMODATE THE IMPROVEMENTS SHOWN ON THESE PLANS AND AS REQUIRED TO FACILITATE CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SERVICES WHICH ARE INDICATED TO BE EXTENDED OR OTHERWISE REUSED.
- ALL EXISTING CONCRETE AND/OR ASPHALT PAVEMENT THAT IS INDICATED ON THESE PLANS TO BE REMOVED FROM THE PROJECT SITE SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR ACCORDING TO APPLICABLE CODES.
- THE CONTRACTOR SHALL CONSULT THE OWNER REGARDING SALVAGE. ANY ITEMS NOT RETAINED BY THE OWNER SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMOLISH AND/OR LEGALLY DISPOSE OF.
- EROSION AND SEDIMENT CONTROL DEVICES MUST BE IN PLACE PRIOR TO DEMOLITION. IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.
- DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS.
- CONTRACTOR SHALL GRADE DEMOLISHED AREAS TO DRAIN (PIPES, PARKING, ETC.)

NOTES:

- THE CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN ACCESS AT ALL TIMES WHILE WORKING IN OR NEAR THE RIGHT-OF-WAY PER SCDOT STANDARDS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY ENCROACHMENT PERMITS FOR WORK WITHIN THE RIGHT-OF-WAY. ALL WORK WITHIN THE RIGHTS-OF-WAY SHALL BE DONE PER THE APPROVED SCDOT ENCROACHMENT PERMITS.
- PERIMETER EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO DEMOLITION.
- CONTRACTOR SHALL PROVIDE PROTECTION DEVICES AS NECESSARY AT ALL TIMES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC.
- PROVIDE ALTERNATE PEDESTRIAN ACCESS AND DETOUR SIGNAGE AS NEEDED.

REFERENCES:

- PLAT PREPARED FOR UNIVERSITY OF SOUTH CAROLINA, BY COX AND DINKINS, INC., DATED JANUARY 14, 2009.
- A PLAT OF BOUNDARY SURVEY AND TOPOGRAPHIC MAP OF RICHLAND COUNTY TAX PARCELS R11205-01-09A, R11205-01-05 & R11205-01-06, PREPARED FOR THE UNIVERSITY OF SOUTH CAROLINA, BY WILBUR SMITH ASSOCIATES, DATED NOVEMBER 26, 2009, REVISED DECEMBER 11, 2009.

NOTES:

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- THE CONTOUR INTERVAL = ONE (1') FOOT.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- VERTICAL DATA SHOWN HEREON IS BASED ON PUBLISHED VALUES FOR RICHLAND COUNTY CONTROL MONUMENT RC979711AZ, HAVING A PUBLISHED ELEVATION OF 187.50, BASED ON NAVD 88 DATUM.

PROJECT TITLE: GAMECOCK PARK SITE DEVELOPMENT
State Project #H27-Z260
 LOCATED IN CITY OF COLUMBIA, RICHLAND COUNTY, SC

BUILDING: N/A
REV:

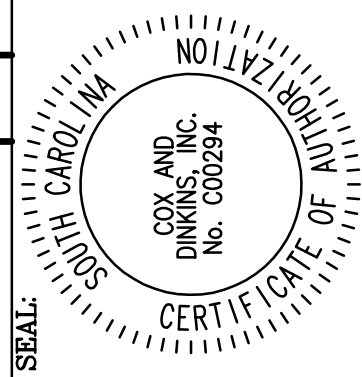
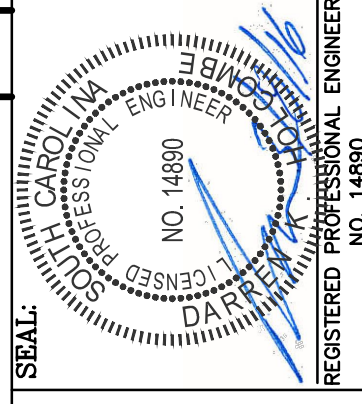
CHECKED BY: DJCH
DATE: 9/08/2016

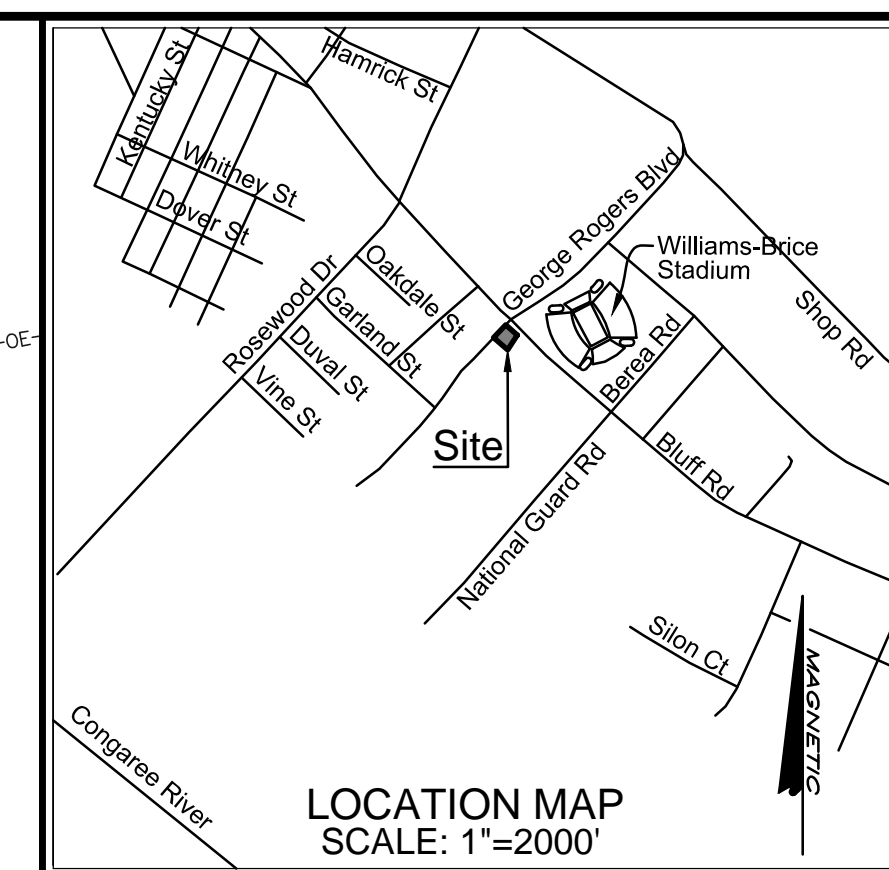
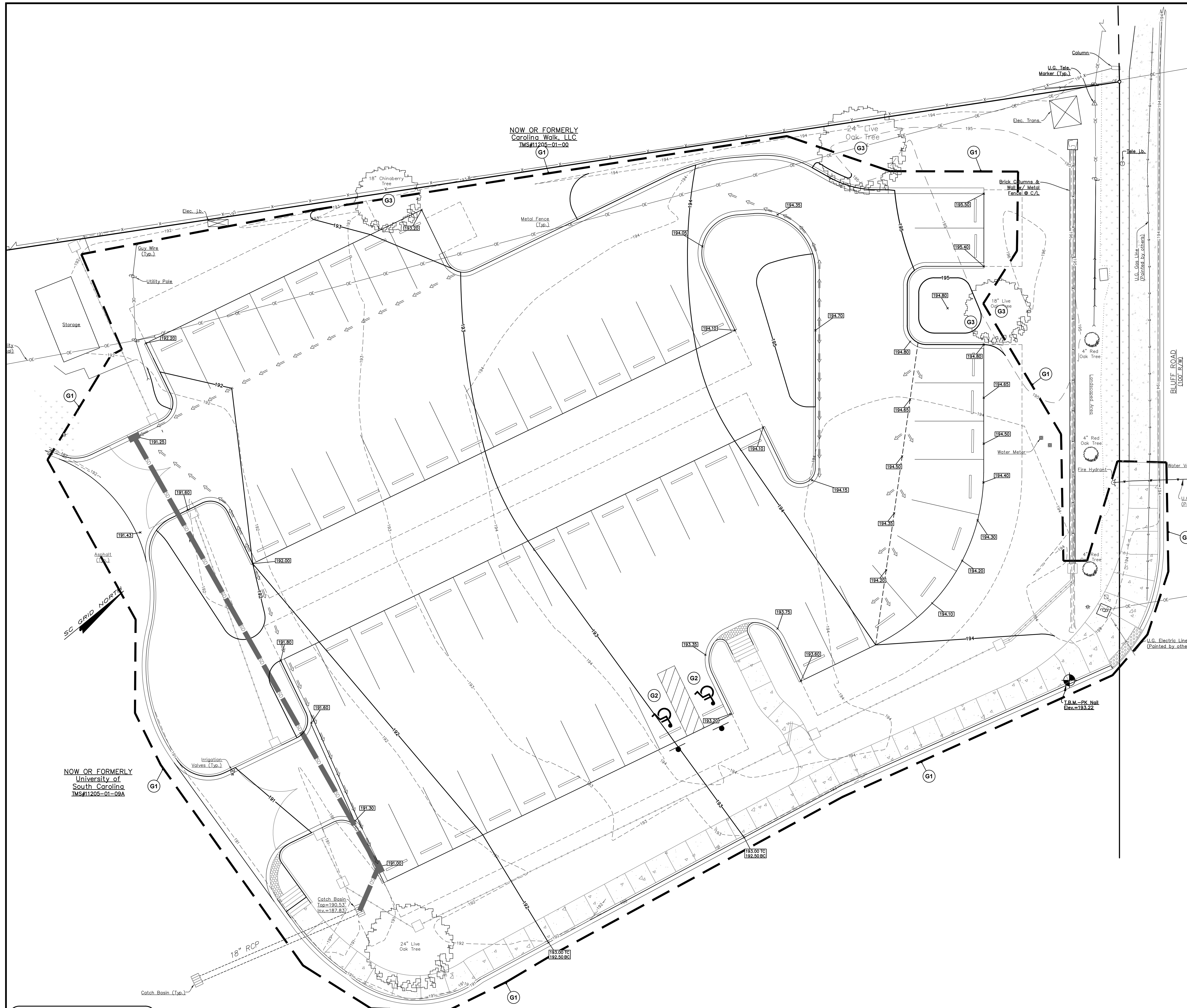
DRAWN BY: SBD
DATE:

DESCRIPTION:

UNIVERSITY of South Carolina

EXISTING CONDITIONS AND DEMO PLAN
 C1
 SHEET NO. N/A





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ENGINEERS - SURVEYORS

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724 BELTLINE BLVD.
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803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com
C&D PROJECT# 1537

CAMPUS PLANNING
AND CONSTRUCTION
COLUMBIA, SC 29208

GRADING LEGEND

- 195.50 PROPOSED SPOT ELEVATION
- 195 PROPOSED INDEX CONTOUR
- 196 PROPOSED INTERMEDIATE CONTOUR
- 195 EXISTING INDEX CONTOUR
- 194 EXISTING INTERMEDIATE CONTOUR
- LIMITS OF DISTURBANCE
- ← FLOW ARROW INDICATING DIRECTION OF FLOW
- GRADE BREAK

CODED GRADING NOTES

- G1 LIMITS OF DISTURBANCE.
- G2 HANDICAP PARKING SPACE. THE MAXIMUM SLOPE ALLOWED IN ANY DIRECTION OF A HANDICAP PARKING SPACE IS 2.0%.
- G3 CONTRACTOR SHALL USE CAUTION WHEN GRADING IN THIS AREA TO NOT FILL OVER TREE ROOTS

REGISTERED PROFESSIONAL ENGINEER
NO. 14890
DATE: 11/20/16

CERTIFICATE OF AUTHORITY
NO. 14890

REVISION	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

BUILDING	DATE	DRAWING	DATE	DESCRIPTION
N/A	9/08/2016			

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- 1) PLAT PREPARED FOR UNIVERSITY OF SOUTH CAROLINA, BY COX AND DINKINS, INC., DATED JANUARY 14, 2009.
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State Project #H27-Z260
LOCATED IN CITY OF COLUMBIA, RICHLAND COUNTY, SC

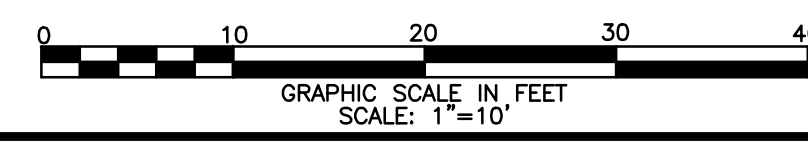
University of South Carolina

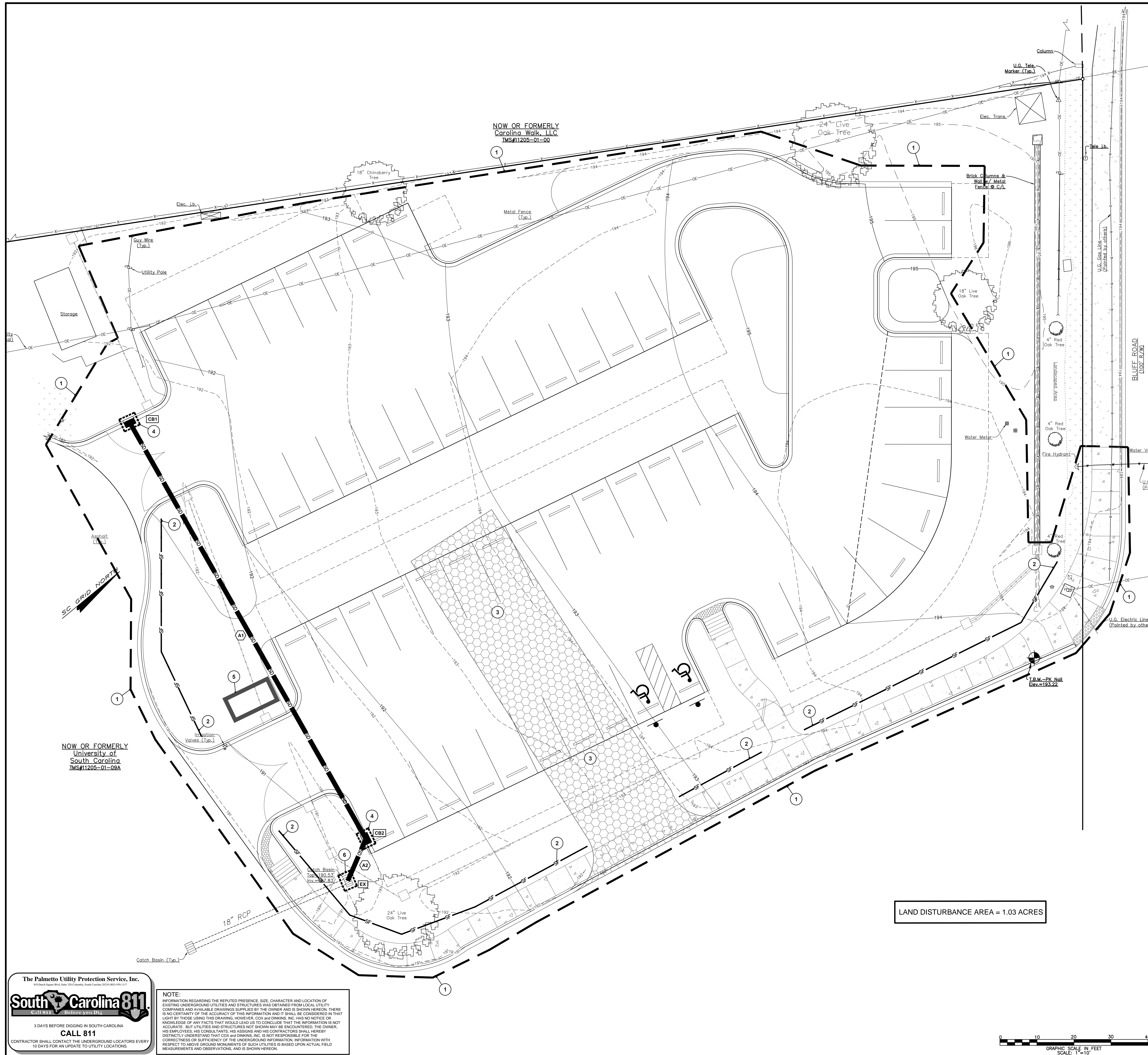
SHEET: GRADING PLAN
C3
SHEET IN SET: N/A

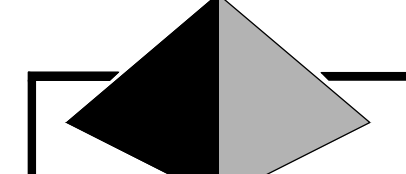
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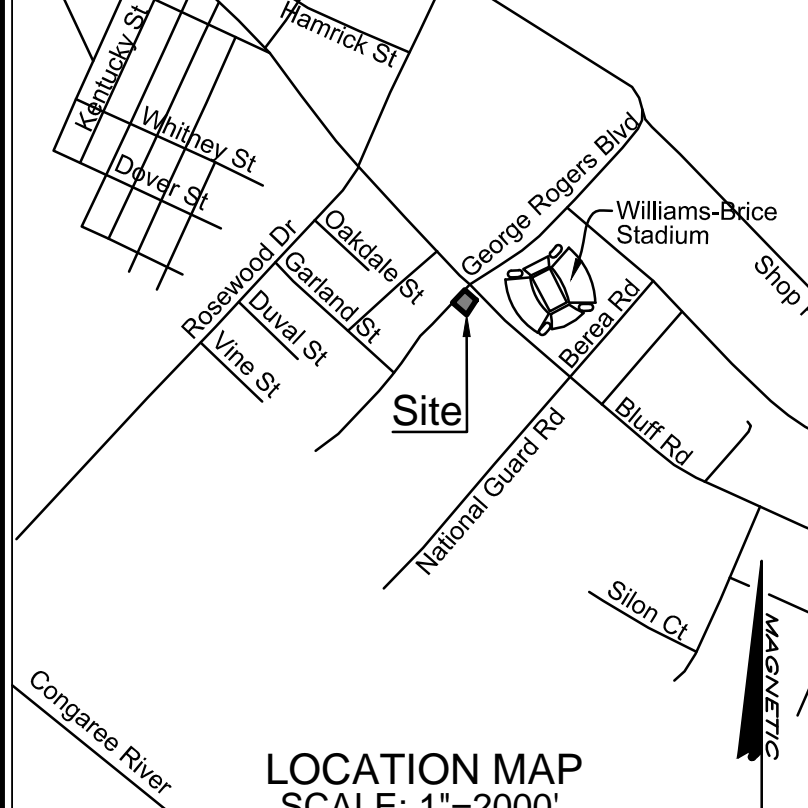




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C&D PROJECT# 1537

LOCATION MAP
SCALE: 1"=2000'



LEGEND

- LIMITS OF DISTURBANCE
- INLET PROTECTION
- PERIMETER SILT FENCING, TYPICAL. SEE DETAIL.

CODED NOTES

- 1 LIMITS OF DISTURBANCE.
- 2 PERIMETER SILT FENCING. SEE DETAIL.
- 3 CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL. CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND PLACED AT A LOCATION THAT HAS ACTIVE LAND DISTURBANCE. THIS LOCATION MAY BE MOVED DEPENDING ON SCHEDULING.
- 4 SEDIMENT TUBE INLET PROTECTION. SEE DETAIL.
- 5 CONCRETE WASHOUT. EXACT LOCATION TO BE DETERMINED BY CONTRACTOR. PIT SHALL BE A MINIMUM OF 10'X20' AND 2' DEEP. DIVERT STORMWATER FLOW AROUND PIT. INSTALL SILT FENCE ON LOW SIDE. REMOVE AND PROPERLY DISPOSE OF CONCRETE AFTER FINAL STABILIZATION. SEE DETAIL.
- 6 DANDY BAG INLET PROTECTION. SEE DETAIL.

LAND DISTURBANCE CONSTRUCTION SEQUENCE:

1. RECEIVE PERMIT COVERAGE FROM CITY OF COLUMBIA AND SCDEH.
2. NOTIFY THE CITY OF COLUMBIA OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
3. CONDUCT PRE-CONSTRUCTION CONFERENCE.
4. INSTALLATION OF CONSTRUCTION ENTRANCE.
5. INSTALLATION OF PERIMETER CONTROLS. (E.G., SILT FENCE).
6. DEMOLISH ITEMS AS SHOWN ON THE DEMOLITION PLAN.
7. ROUGH GRADING.
8. INSTALLATION OF STORM DRAINAGE SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED.
9. FINE GRADING, PAVING, ETC.
10. BEGIN LANDSCAPE INSTALLATION PER PLAN BY OTHERS.
11. BEGIN PERMANENT/FINAL STABILIZATION.
12. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES.
13. SUBMIT NOTICE OF TERMINATION (NOT) TO CITY OF COLUMBIA WITH CHECKLIST AS APPROPRIATE.

DATE	DESCRIPTION	DRAWN BY	CHECKED BY
9/08/2016			

I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCRI00000."

DATE: _____ DARREN HOLCOMBE
LICENSED PROFESSIONAL ENGINEER NO. 14890

APPLICANT'S CERTIFICATION:
"I (WE) HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND I (WE) ARE RESPONSIBLE FOR THE LAND DISTURBANCE AND RELATED MAINTENANCE THEREOF. CITY OF COLUMBIA AUTHORITIES WILL BE ALLOWED TO ENTER THE PROJECT SITE FOR THE PURPOSE OF ON-SITE INSPECTIONS."
DATE: 05Feb2016 OWNER/PERMIT APPLICANT

DESIGNER'S CERTIFICATION:
"I HEREBY CERTIFY THAT THIS PLAN IS DESIGNED TO CONTAIN SOIL ON THE PROPERTY CONCERNED TO THE MAXIMUM EXTENT, TO PROVIDE FOR THE PROTECTION OF THE PROPERTY AND THE PROPOSED IMPROVEMENTS THEREON FROM THE EFFECTS OF FLOODING, TO PROVIDE FOR THE CONTROL OF THE RUNOFF FROM THE PROPERTY, AND THAT ALL PROVISIONS FOR SEDIMENT CONTROL AND STORM DRAINAGE ARE IN ACCORDANCE WITH THE STORMWATER MANAGEMENT AND SEDIMENT CONTROL ORDINANCE FOR CITY OF COLUMBIA, SOUTH CAROLINA."
DATE: _____ DARREN HOLCOMBE
LICENSED PROFESSIONAL ENGINEER NO. 14890

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PROJECT TITLE: GAMECOCK PARK SITE DEVELOPMENT
State Project #H27-Z260

SHEET: STORM DRAINAGE AND SWPP PLAN C4

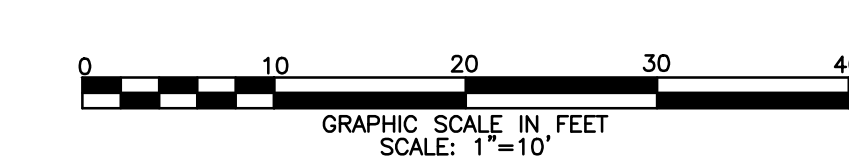
SHEET IN SET: N/A

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LAND DISTURBANCE AREA = 1.03 ACRES

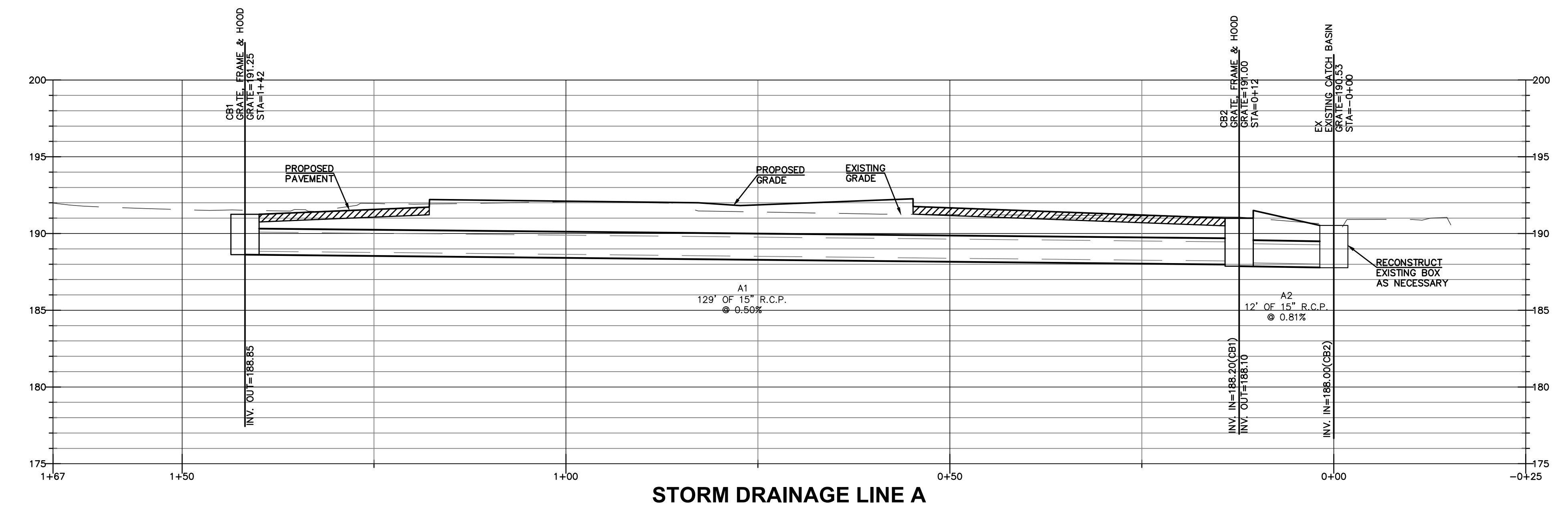
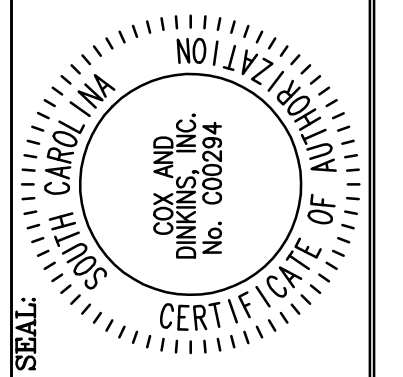
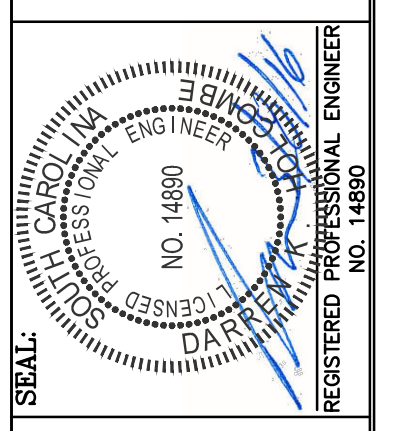


REGISTERED PROFESSIONAL ENGINEER
 NO. 14890
 STATE OF SOUTH CAROLINA
 DATE: 02/05/2016
 SEAL

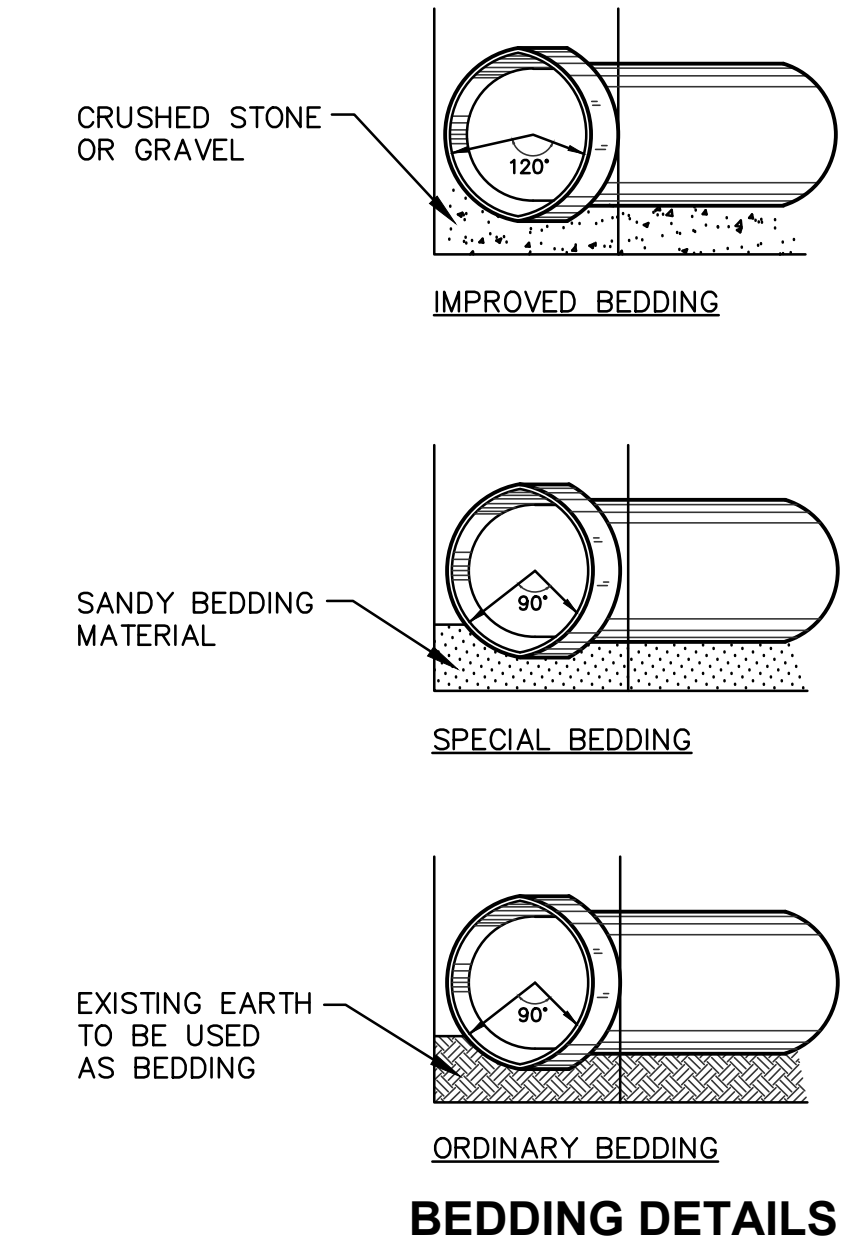
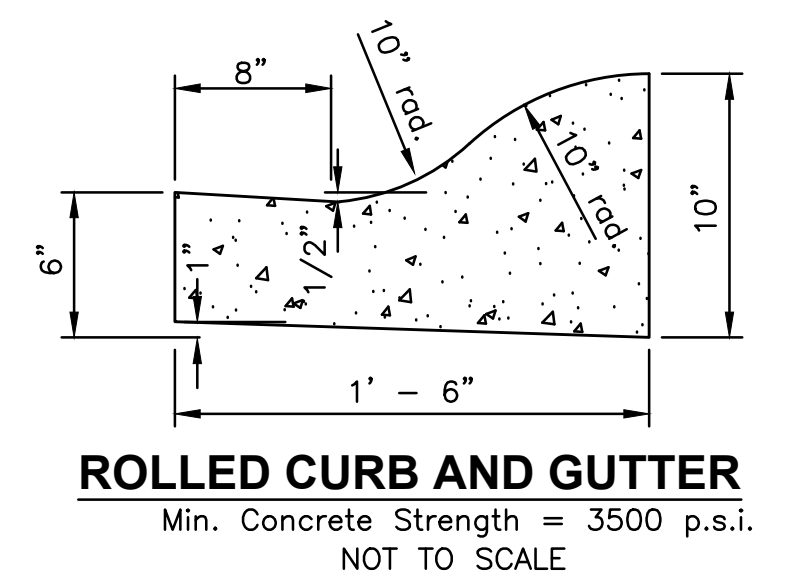
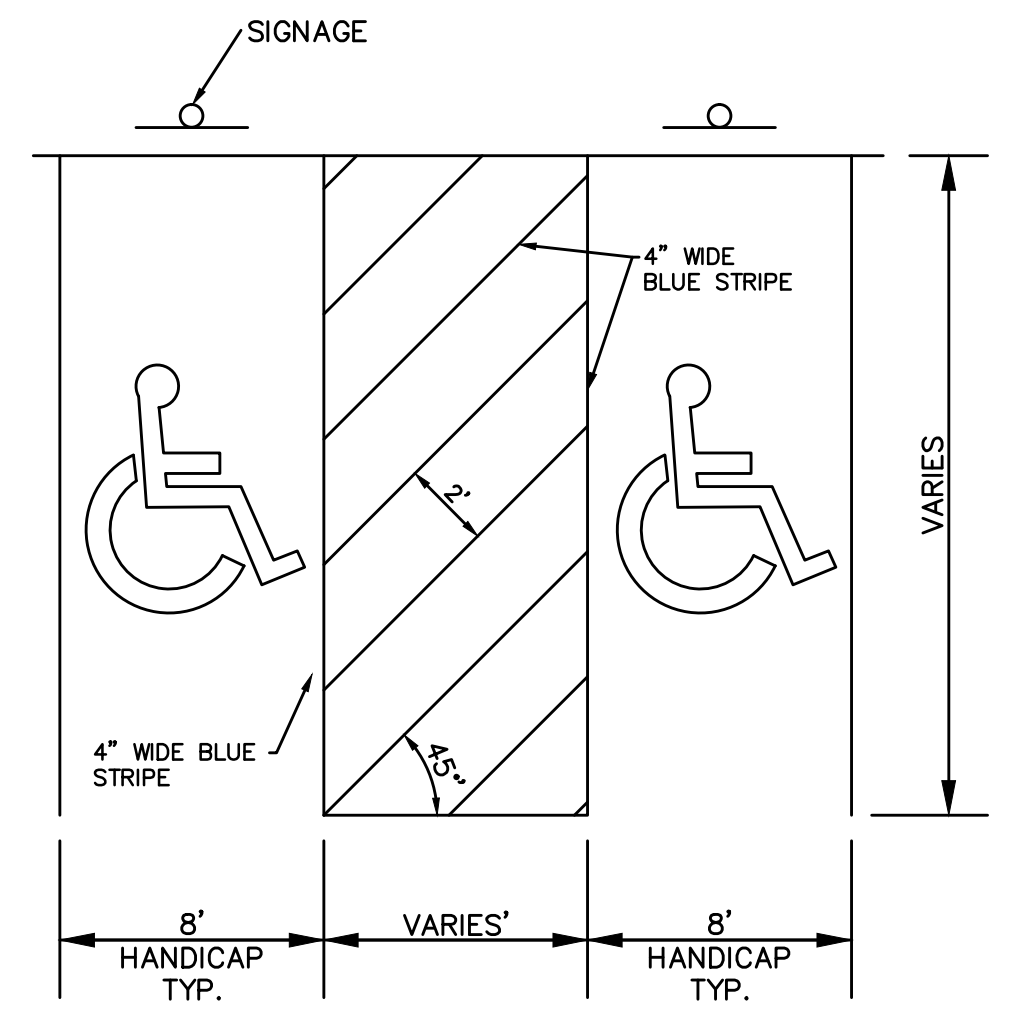
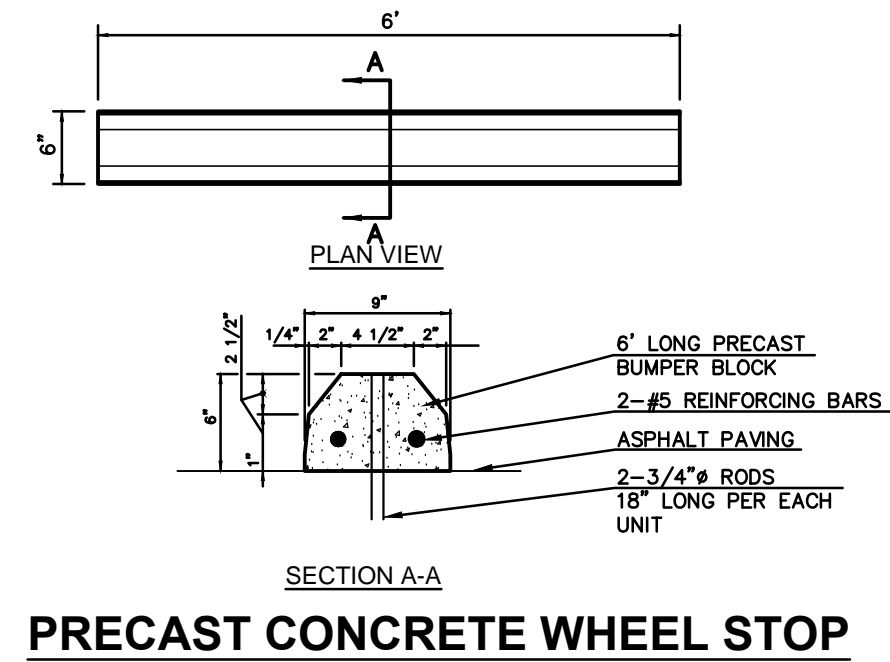
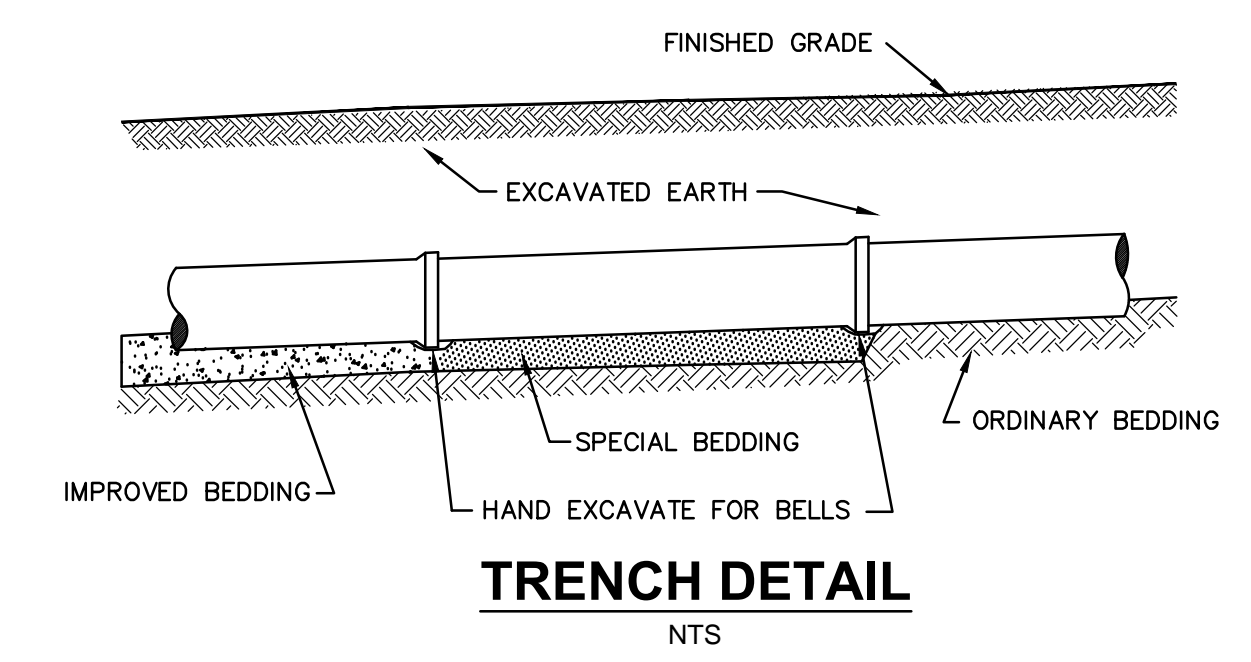
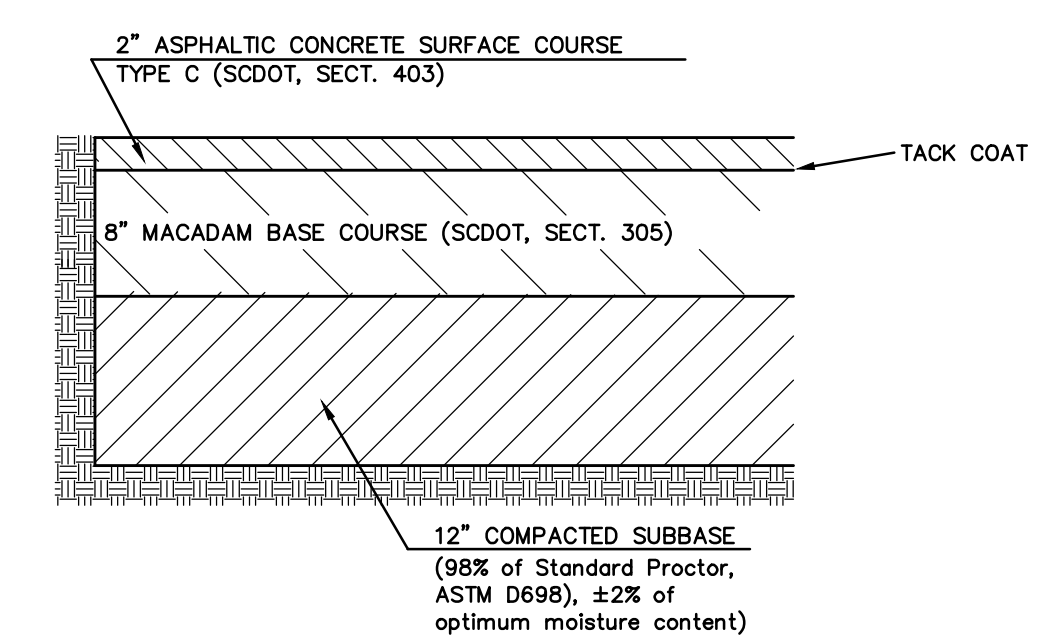
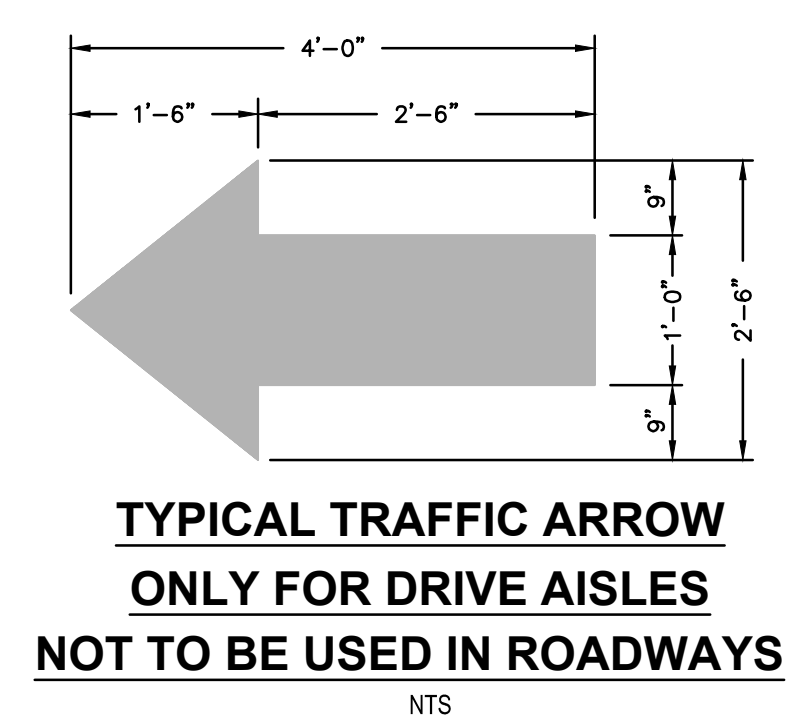
REGISTERED PROFESSIONAL ENGINEER
 NO. 14890
 STATE OF SOUTH CAROLINA
 DATE: 02/05/2016
 SEAL

PROJECT TITLE: GAMECOCK PARK SITE DEVELOPMENT
 State Project #H27-Z260
 SHEET: STORM DRAINAGE AND SWPP PLAN C4
 SHEET IN SET: N/A

LOCATED IN CITY OF COLUMBIA, RICHLAND COUNTY, SC
 University of South Carolina

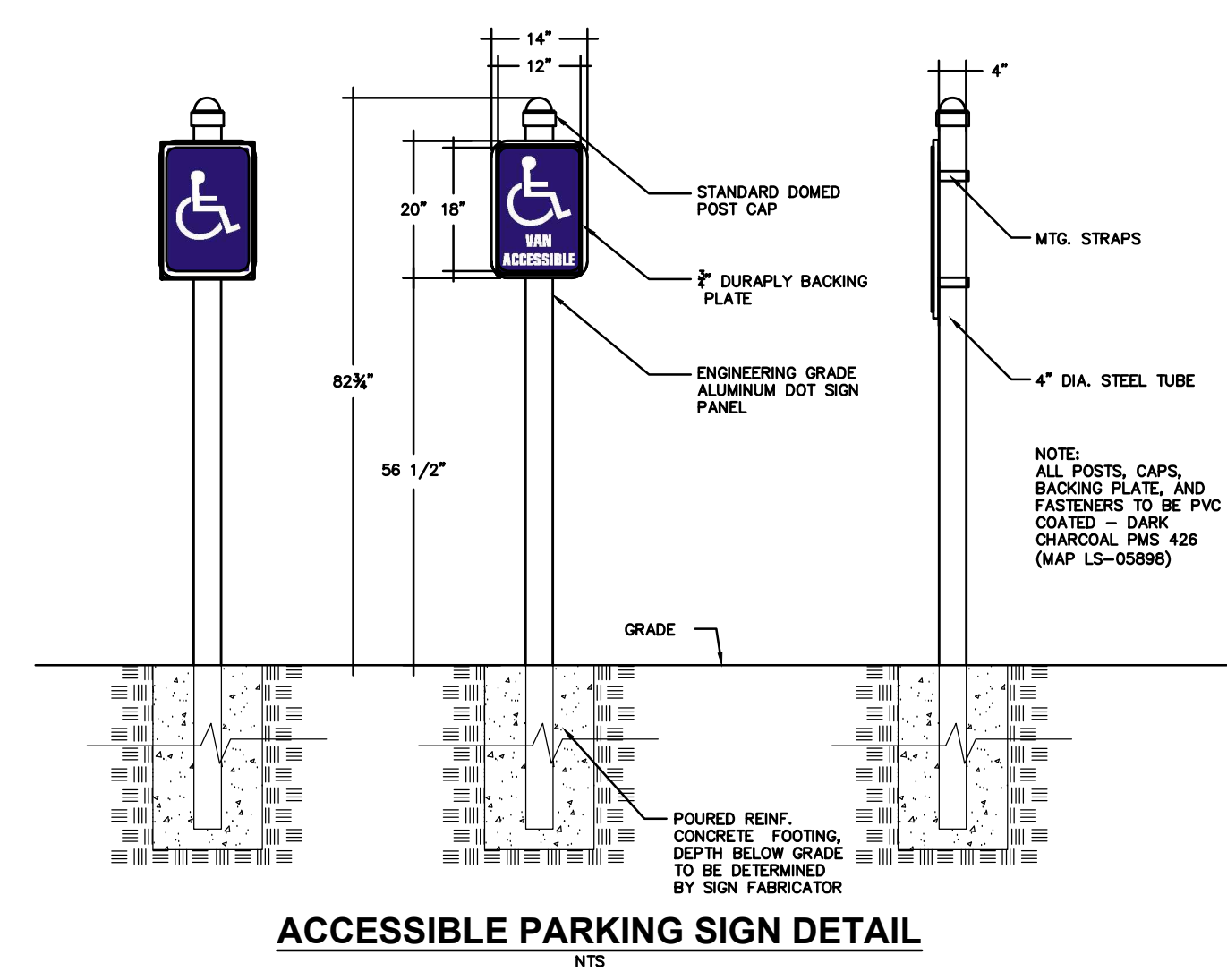
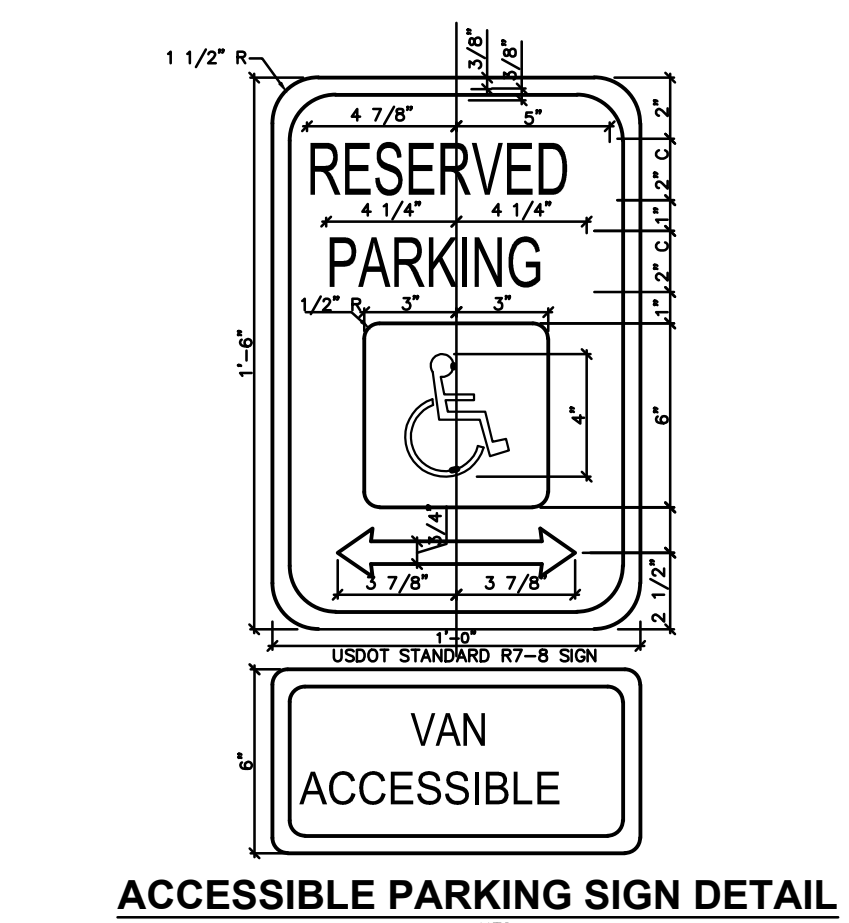
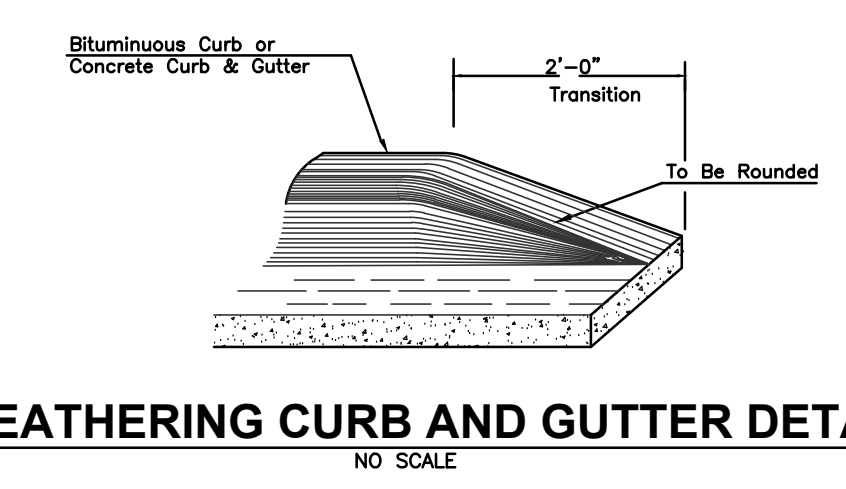
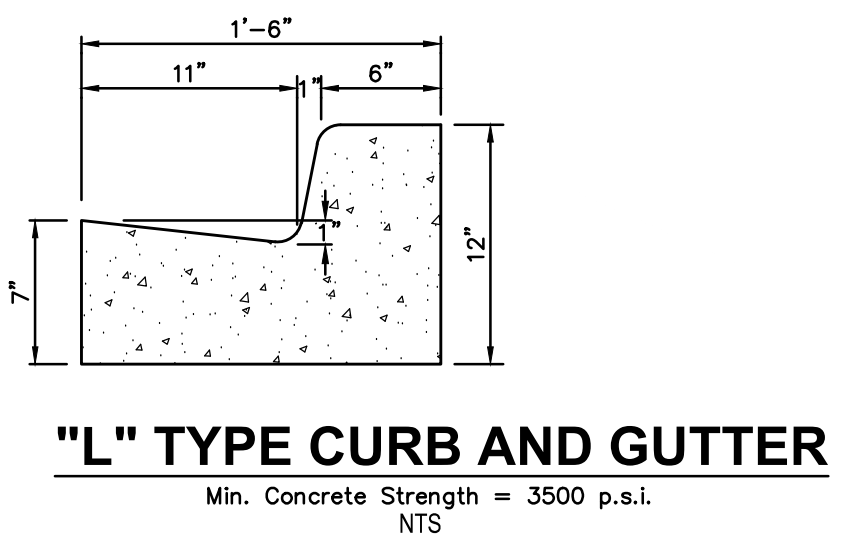
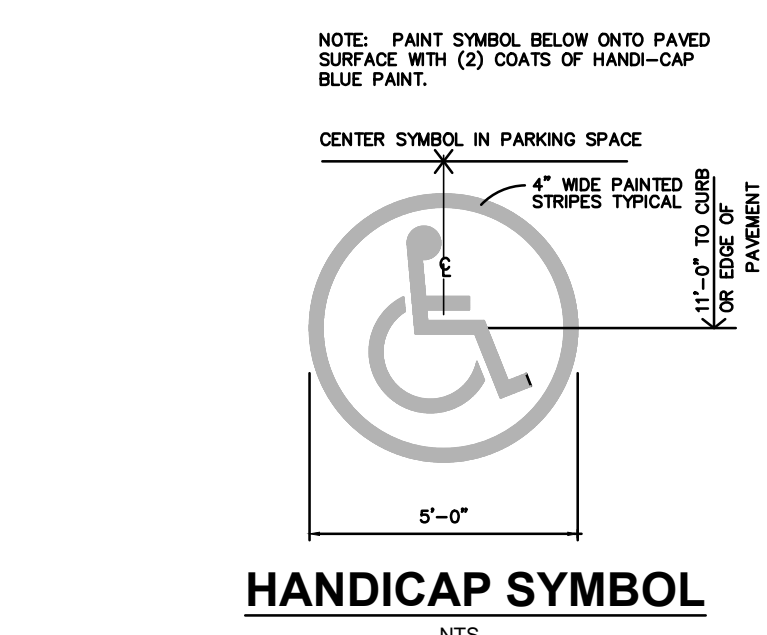
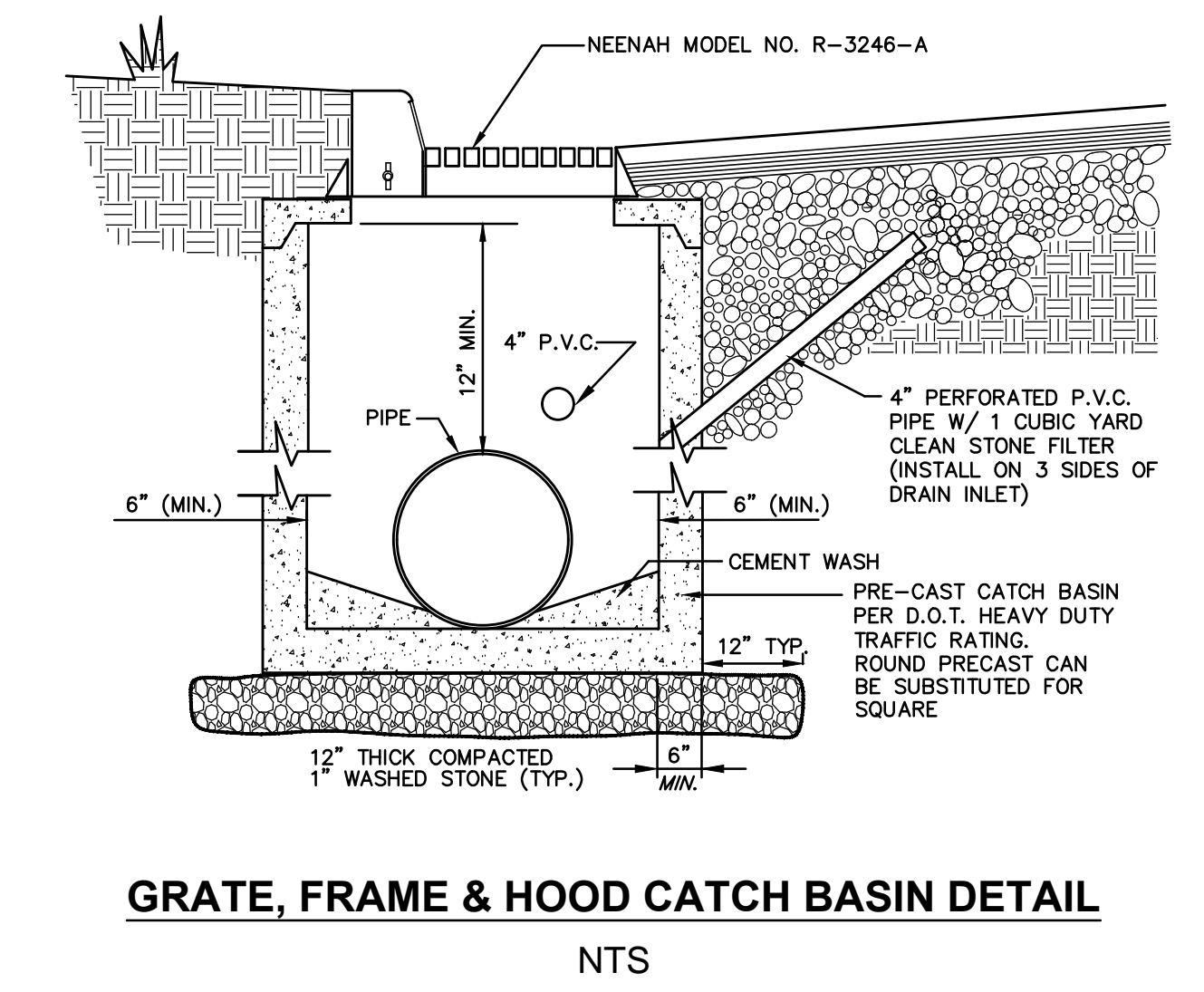


STORM DRAINAGE LINE A

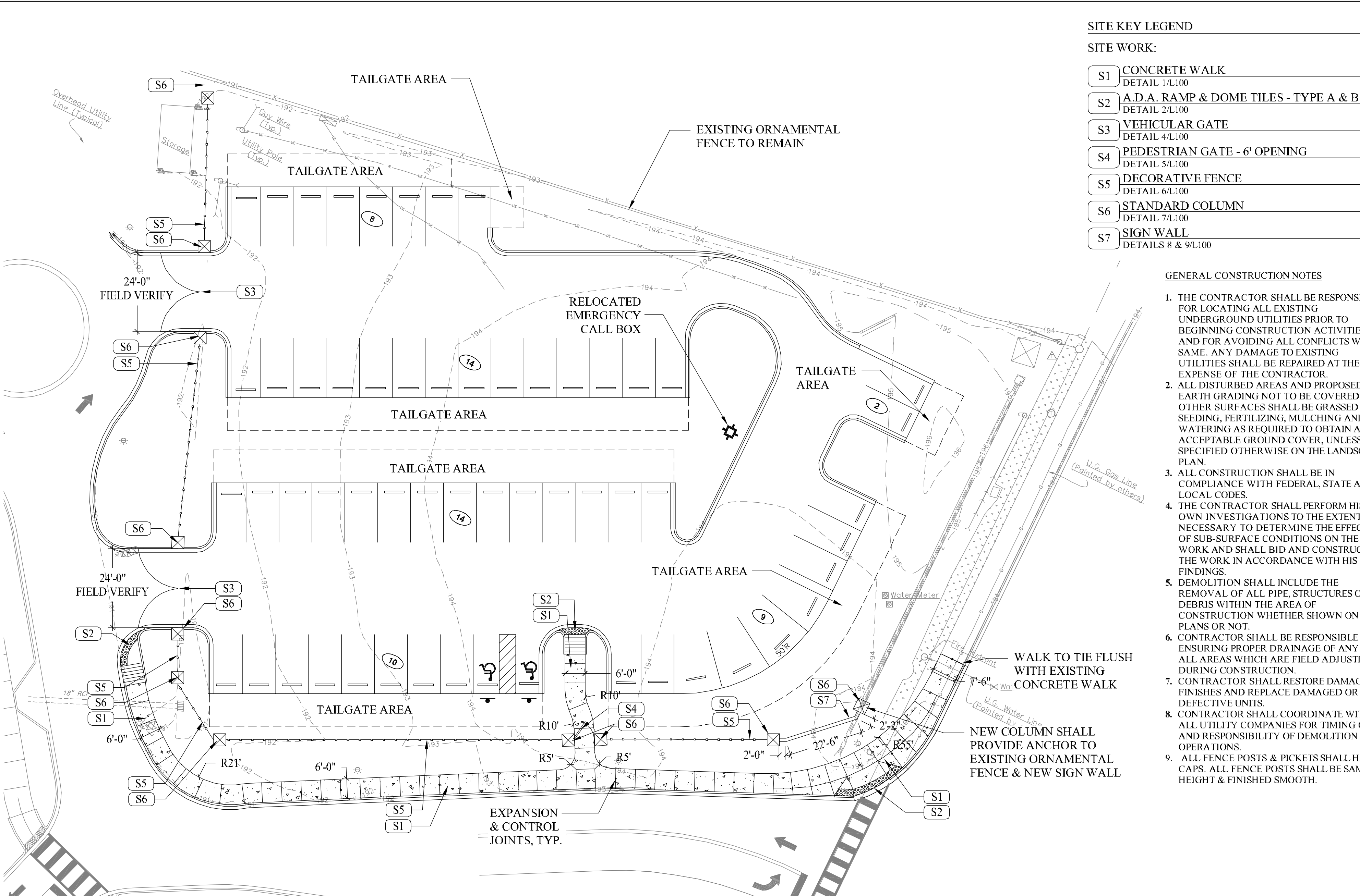


NOTE:
MIN. DEPTH OF BEDDING TO BE ONE FOURTH PIPE DIAMETER BUT IN NO CASE LESS THAN 4".

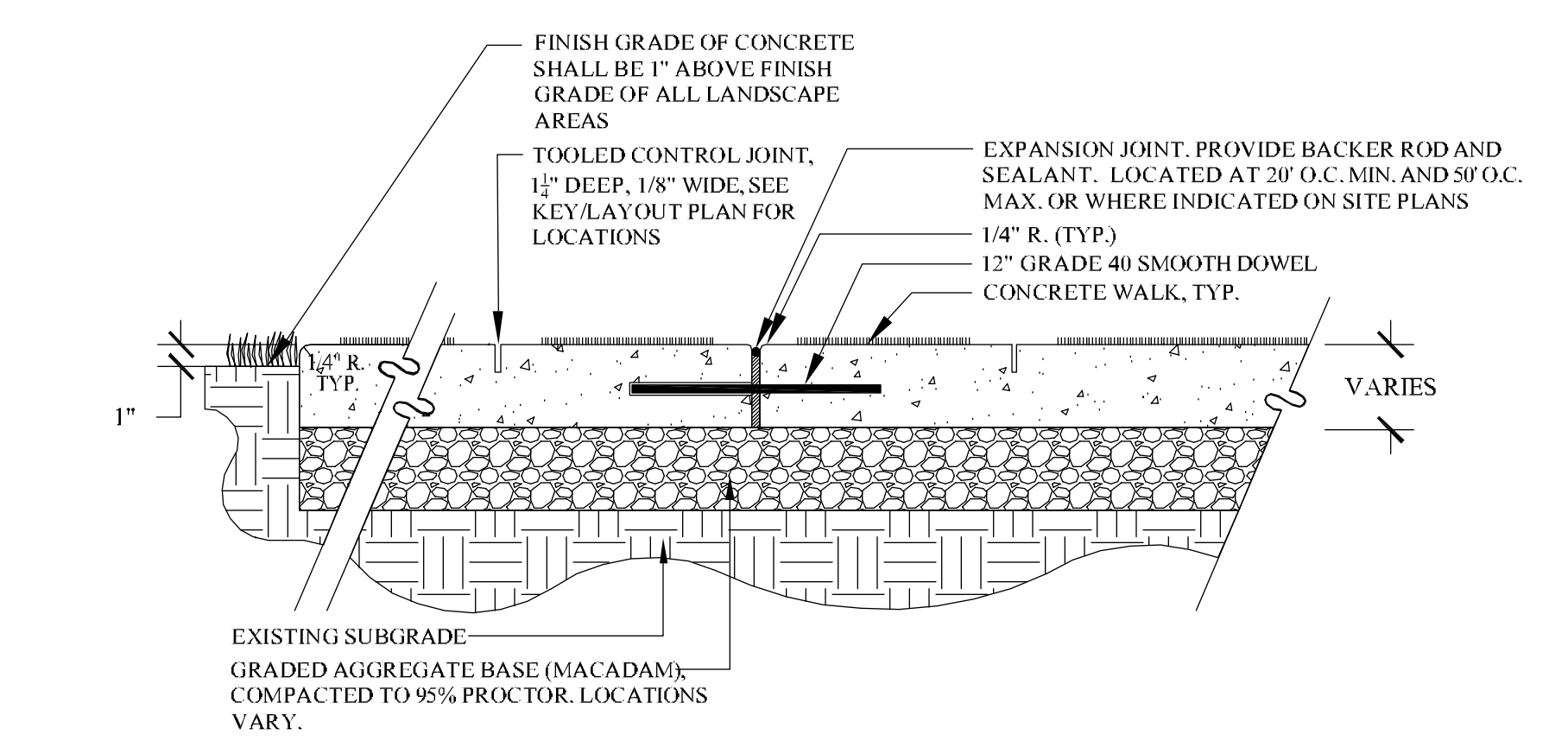
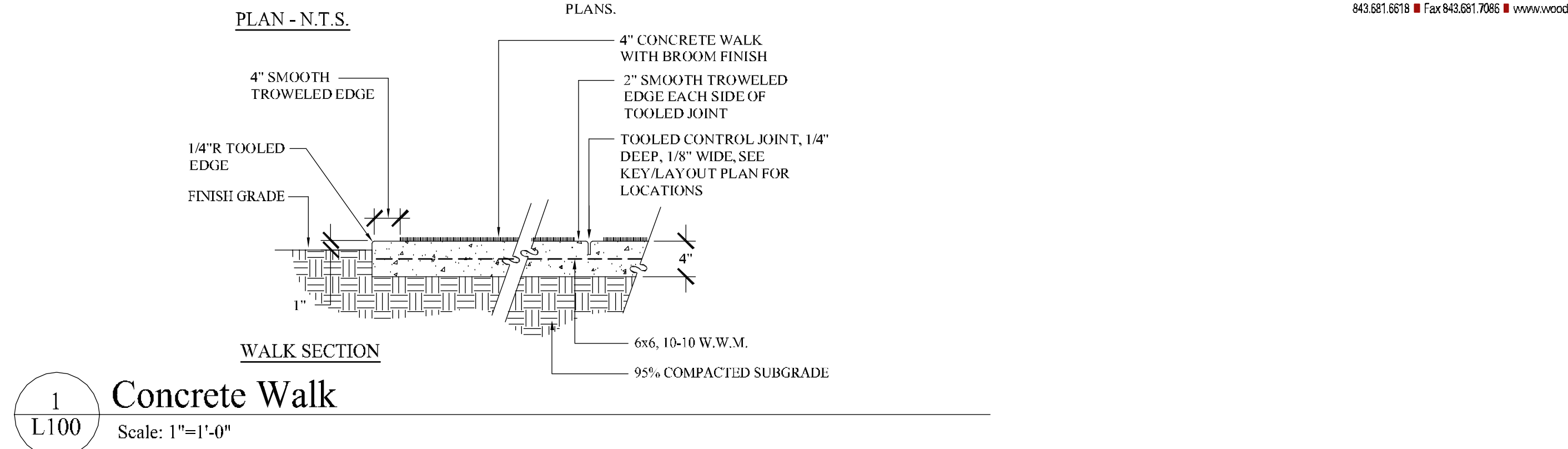
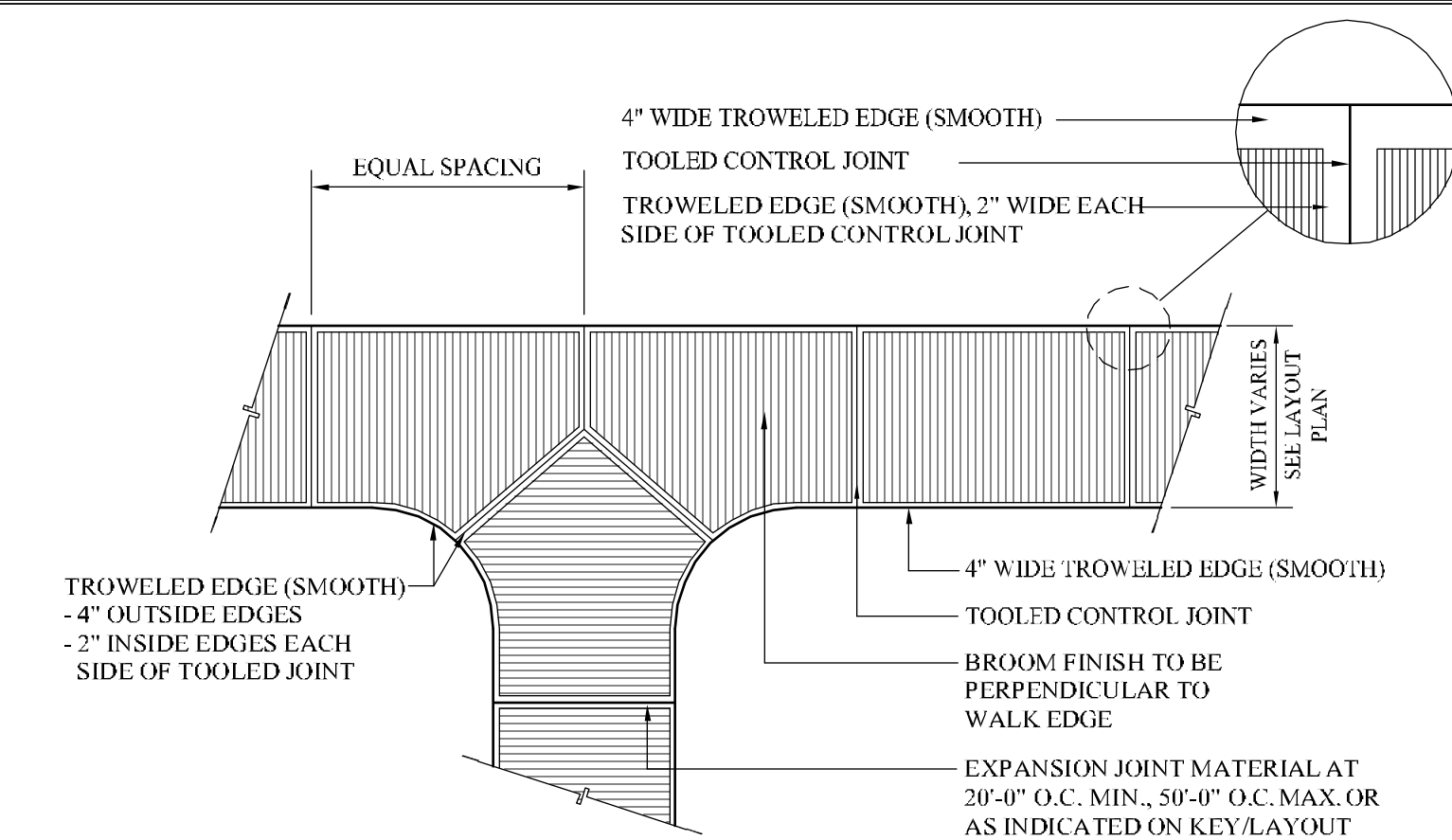
NOTE:
LOCAL SANDY BEDDING MATERIAL TO BE USED WHERE UNSUITABLE OR UNUSABLE DITCH BOTTOMS ARE ENCOUNTERED.



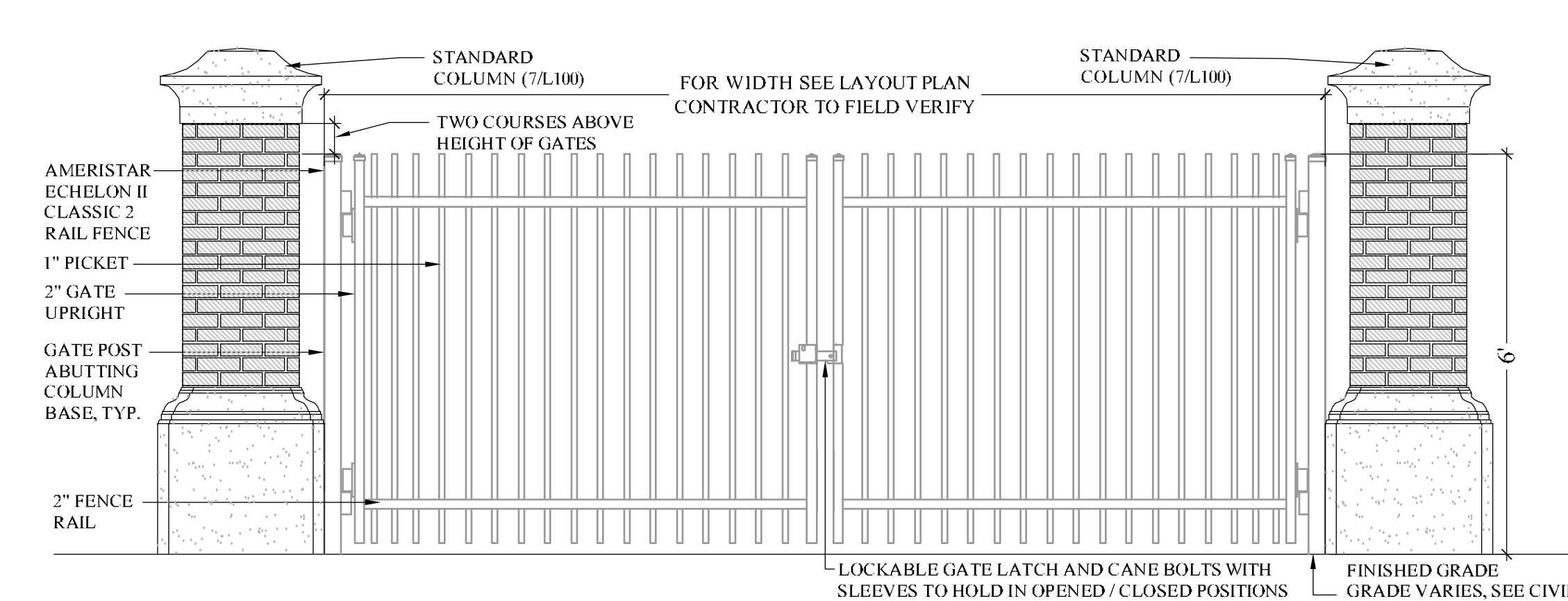
DATE	DESCRIPTION	BY	DATE
9/08/2016			



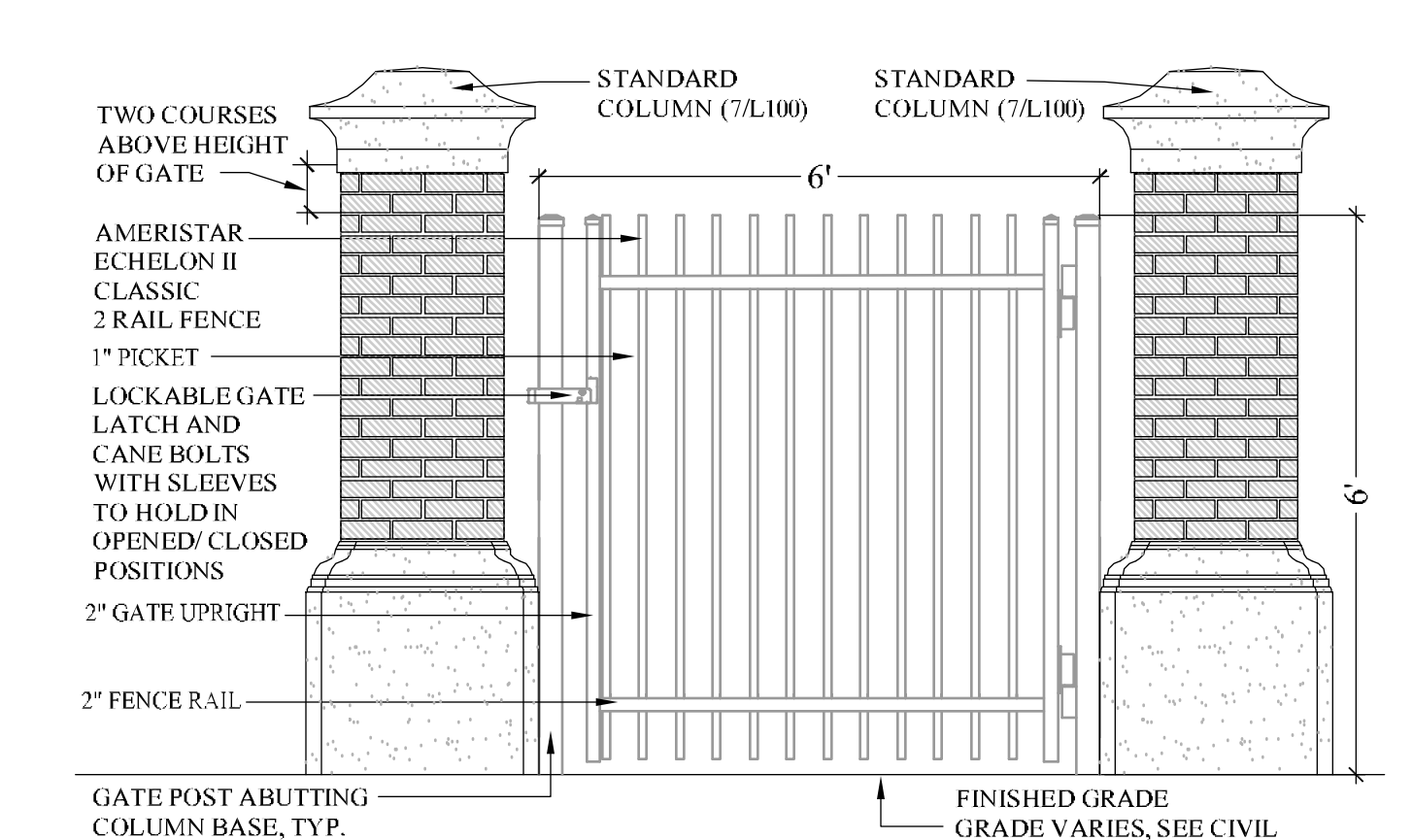
Layout & Key Plan
Scale: 1" = 20'



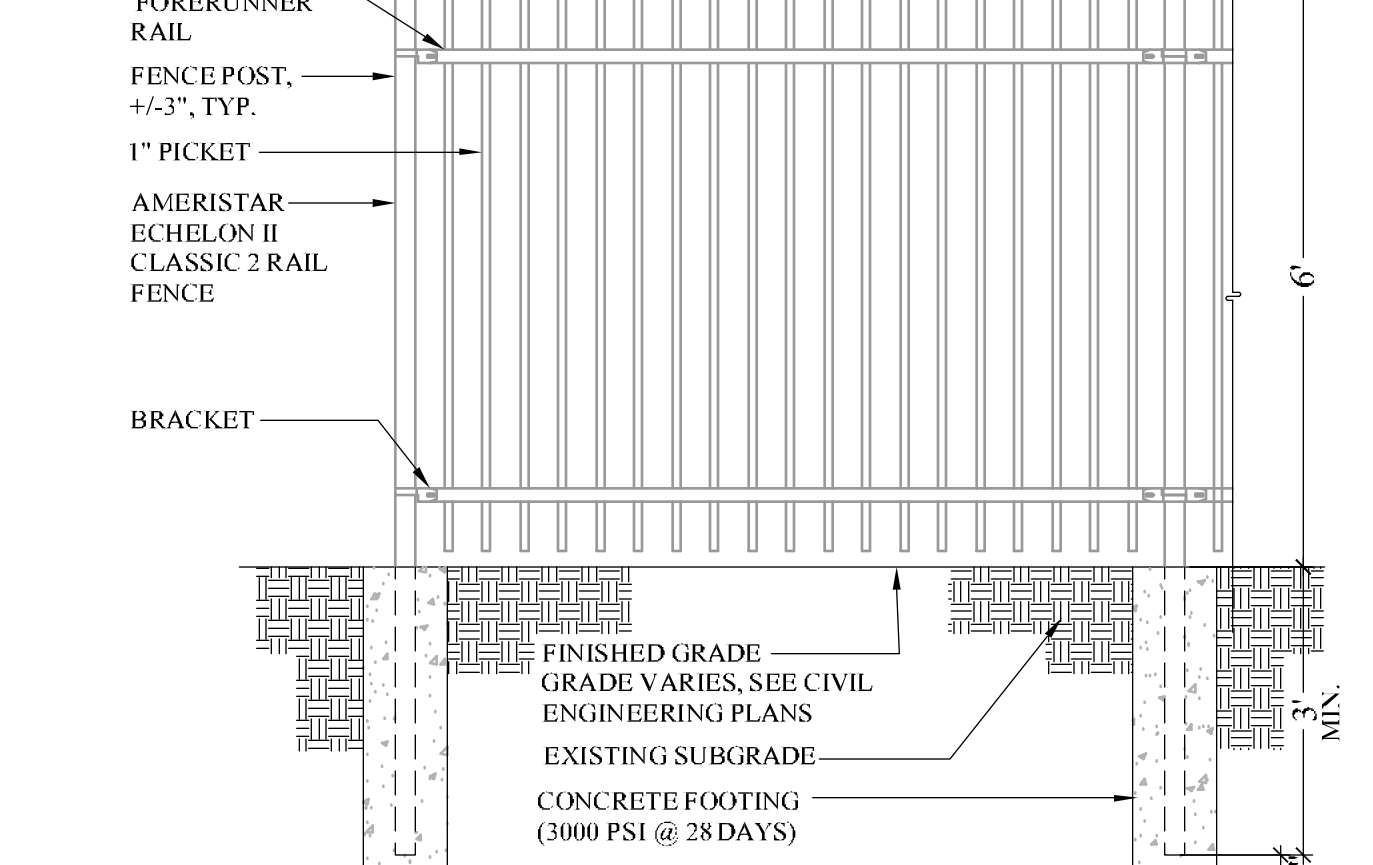
Control & Expansion Joints
Scale: 1 1/2"=1'-0"



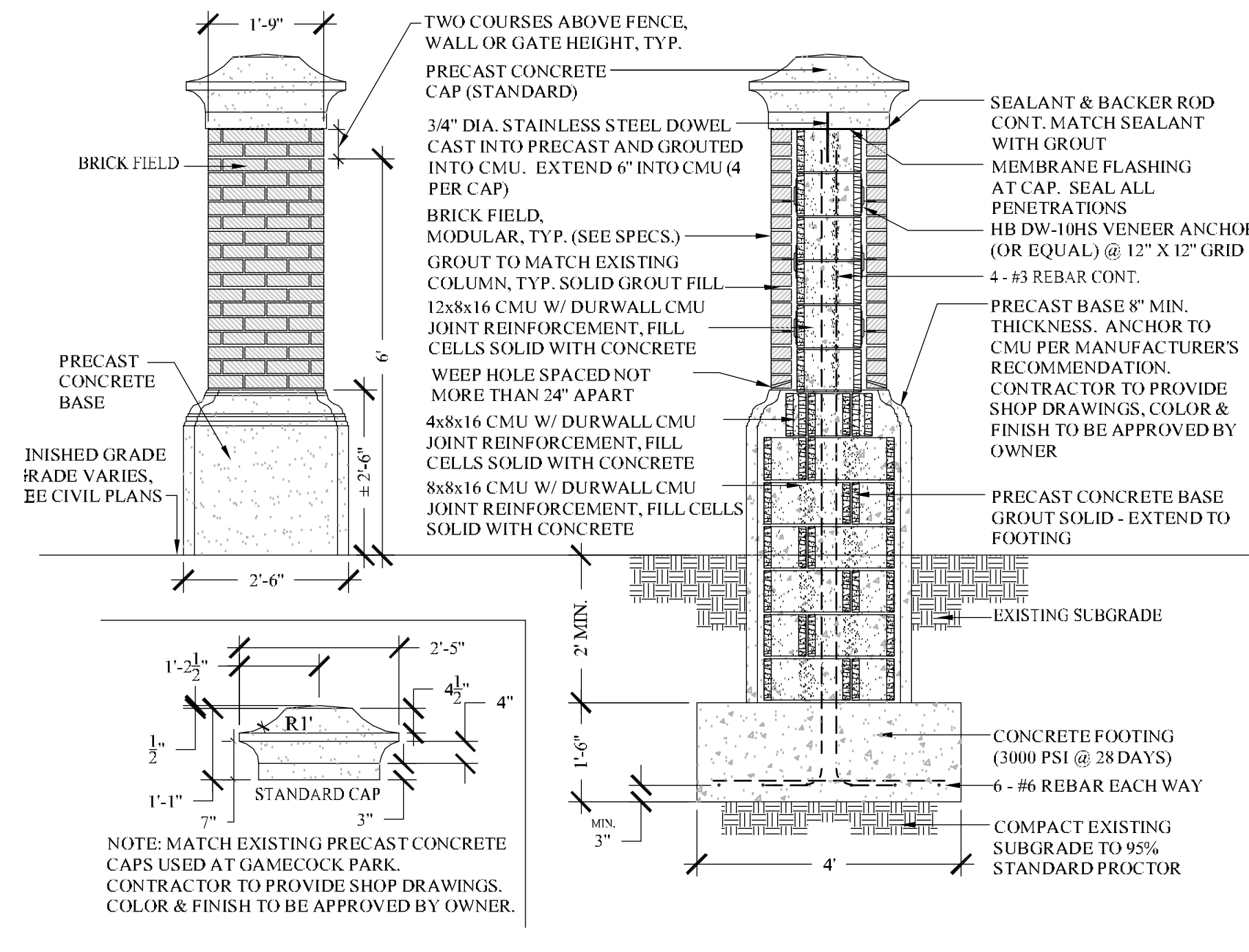
Vehicular Gate
Scale: 1/2"=1'-0"



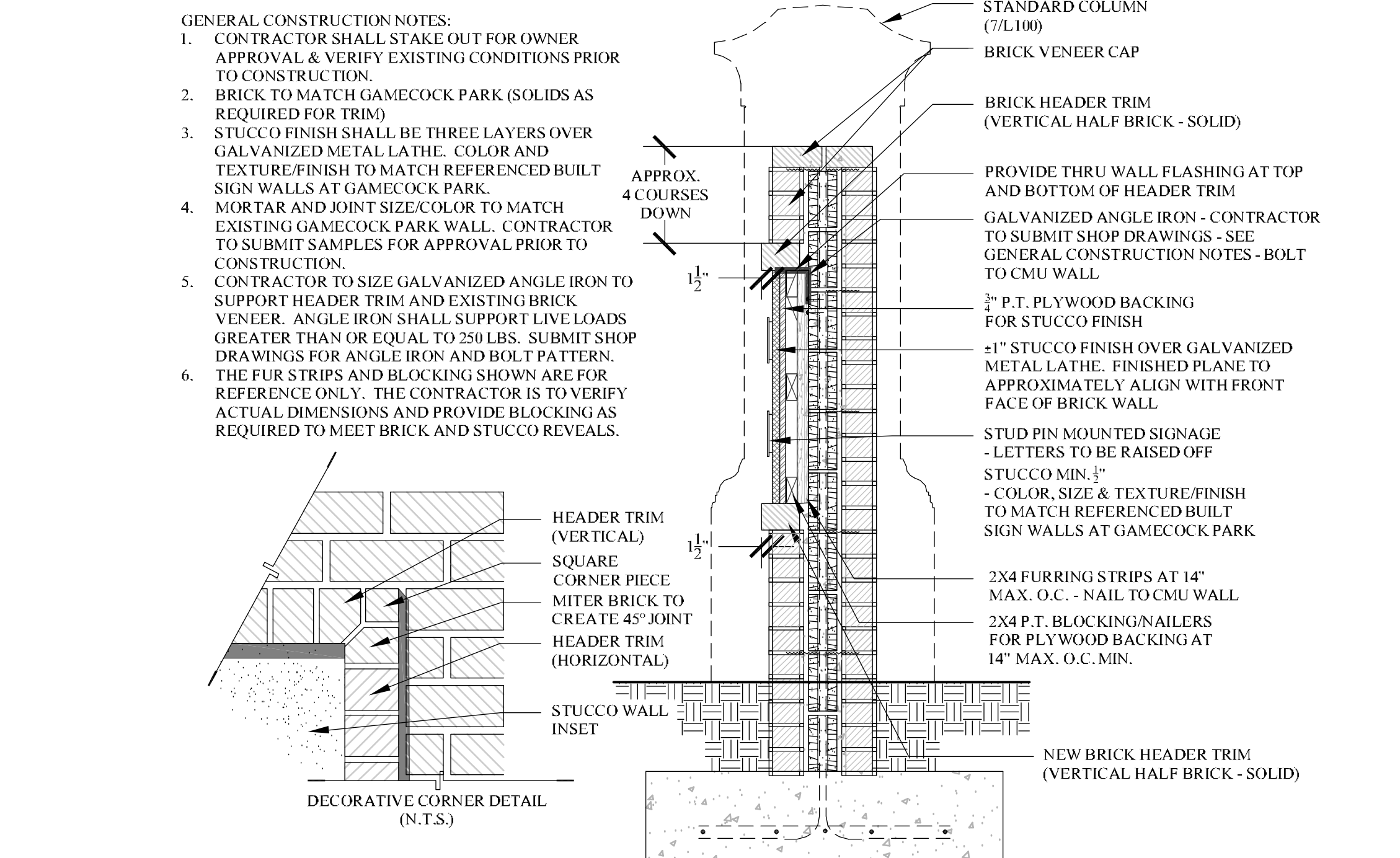
Pedestrian Gate
Scale: 1/2"=1'-0"



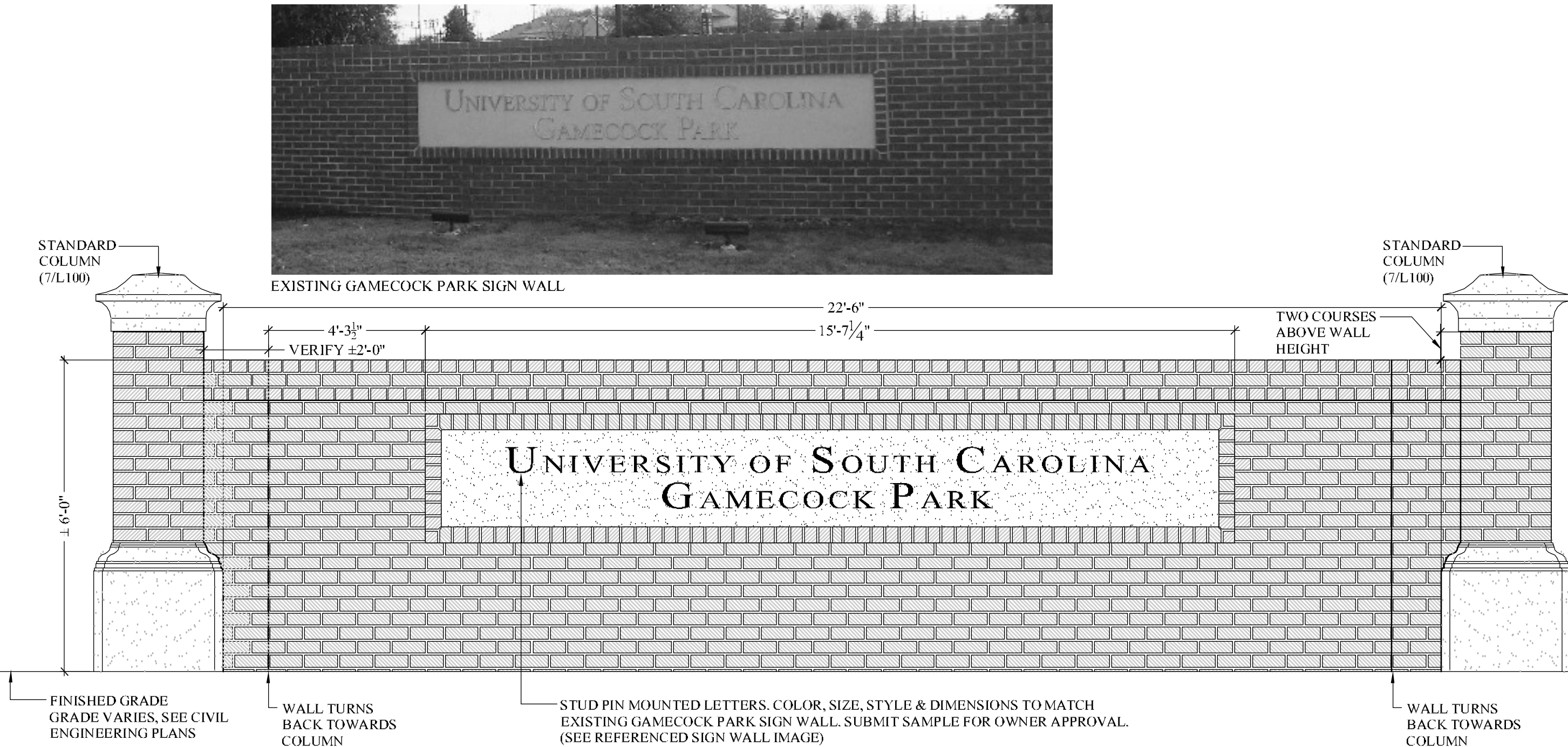
Decorative Fence
Scale: 1/2"=1'-0"



Standard Column
Scale: 1/2"=1'-0"



Sign Wall
Scale: 3/4"=1'-0"



Sign Wall Elevation
Scale: 1/2"=1'-0"

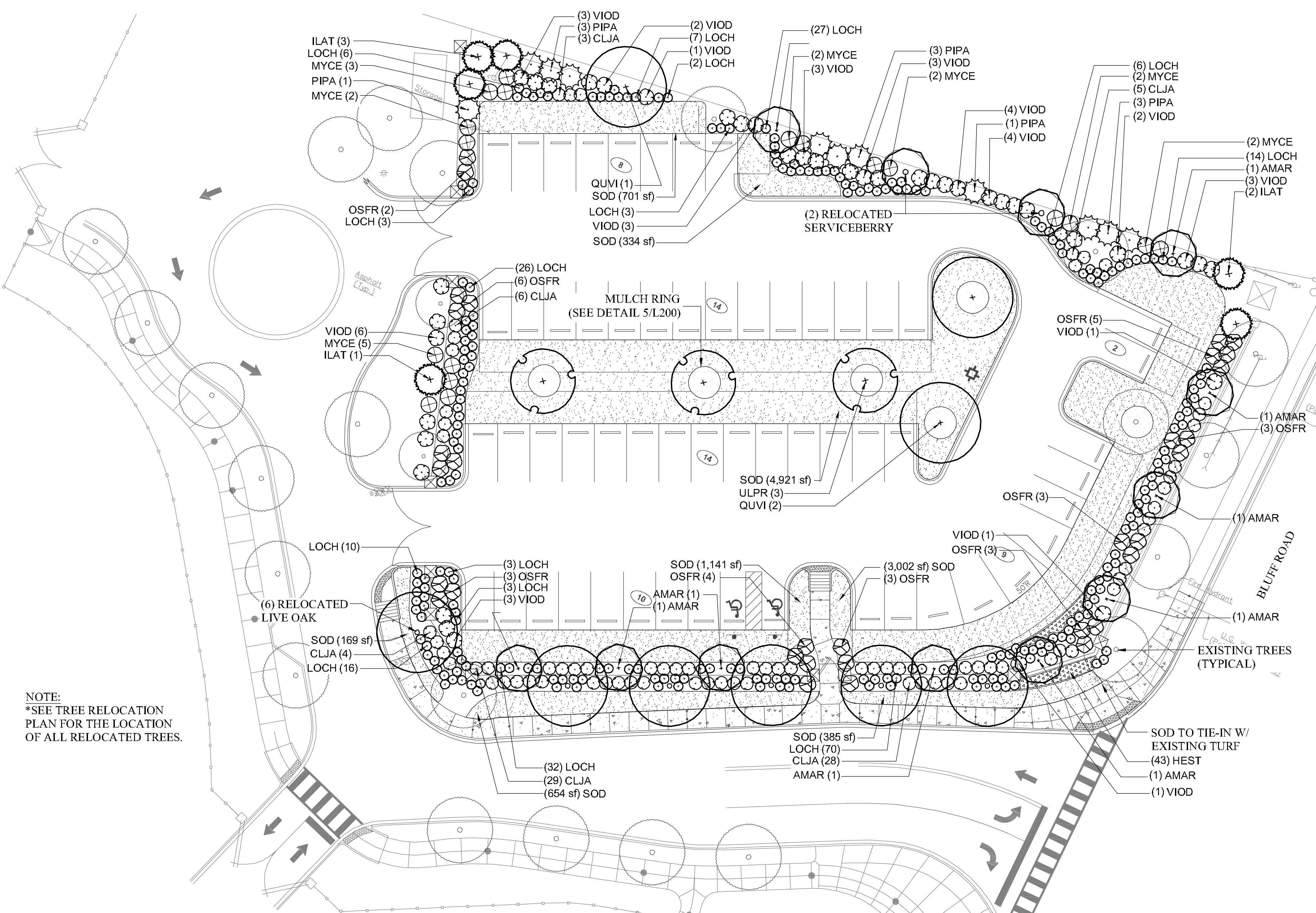
DATE:	3/8/2016
CHECKED BY:	KT
DRAWN BY:	BH/BEL
DATE:	
ORIG. BY:	
DATE:	
DESCRIPTION:	
BUILDING:	
REV:	
PROJECT TITLE:	GAMECOCK PARK SITE DEVELOPMENT H27-2260
SHEET:	L100
SITE PLAN & DETAILS	N/A

GENERAL PLANTING NOTES:

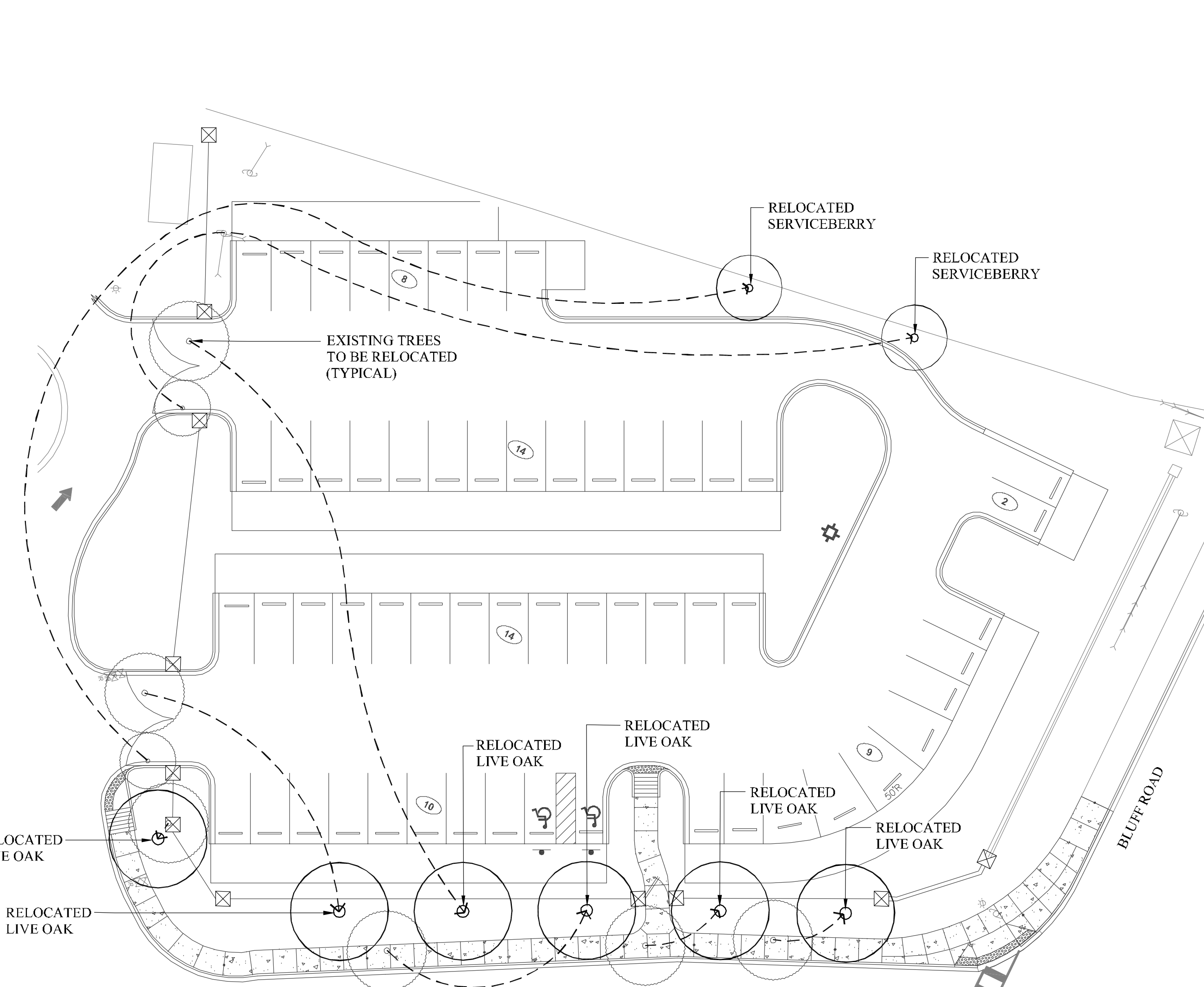
- CONTRACTOR TO PROVIDE 100% COVERAGE OF ALL SOD AND PLANTING BEDS. SEE IRRIGATION PLAN & SPECIFICATIONS FOR DETAILS.
- ANY DEVIATION FROM THESE PLANS MUST BE SPECIFICALLY APPROVED BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
- NOTIFY LANDSCAPE ARCHITECT OF ANY SITE CONDITIONS WHICH MAY NECESSITATE MODIFICATION TO THE PLAN. LANDSCAPE ARCHITECT SHALL, IF NECESSARY, MAKE "IN-FIELD MODIFICATIONS".
- FINE GRADING SHALL CONSIST OF HAND RAKED SMOOTH, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS. ALL AREAS TO RECEIVE LANDSCAPE PLANTING, INCLUDING LAWN AREAS IF APPLICABLE, AND/OR PINE STRAW MULCH.
- CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF EXISTING CONDITIONS AND PROMPTLY REPORTING ANY DISCREPANCIES. CONTRACTOR TO PERFORM SOIL TESTS AS SPECIFIED.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO EXISTING UTILITIES.
- MULCH ALL PLANTING BEDS WITH SHREDDED HARDWOOD MULCH TO A 4" DEPTH. SEE PLANS FOR LOCATIONS.
- CONTRACTOR VERIFIES THAT ALL PLANT MATERIAL IS DETERMINED AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED. DO NOT MAKE SUBSTITUTIONS. IF THERE ARE DIFFICULTIES LOCATING PLANT MATERIAL AS SPECIFIED, CONTACT LANDSCAPE ARCHITECT OR OWNER'S REP. PRIOR TO BIDDING.
- PLANT SCHEDULE WAS PREPARED FOR ESTIMATING PURPOSES FOR THE CONTRACTOR'S CONVENIENCE ONLY. ITS ACCURACY IS NOT GUARANTEED. CONTRACTOR SHALL MAKE OWN QUANTITIES TAKEOFF USING DRAWINGS TO DETERMINE QUANTITIES TO HIS SATISFACTION, REPORTING PROMPTLY ANY DISCREPANCIES WHICH MAY AFFECT BIDDING.
- THE CONTRACTOR SHALL COORDINATE WITH OWNER/OWNER'S REPRESENTATIVE TO ESTABLISH A PLANTING SCHEDULE THAT PRIORITIZES THE PLANTING OF ALL TREES AND LAWN AREAS.
- ALL PLANTS SHALL BE SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER'S REP. BEFORE, DURING, AND AFTER INSTALLATION.
- ALL PLANTING TECHNIQUES SHALL CONFORM TO THE APPLICABLE DETAIL.
- ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT, AND SPREAD OR THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAUNTED AND SHAPE SHALL BE TYPICAL OF THE SPECIES. NO SPLIT LEADERS WILL BE ACCEPTED ON SHADE TREES.
- ALL PLANT BEDS TO RECEIVE WEED INHIBITOR OF PREEN OR APPROVED EQUAL PRIOR TO MULCHING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE HEALTH AND SURVIVAL OF ALL RELOCATED PLANTS THROUGH WARRANTY PERIOD.
- ALL NEWLY INSTALLED PLANT MATERIAL SHALL BE MECHANICALLY IRRIGATED.

PLANT SCHEDULE

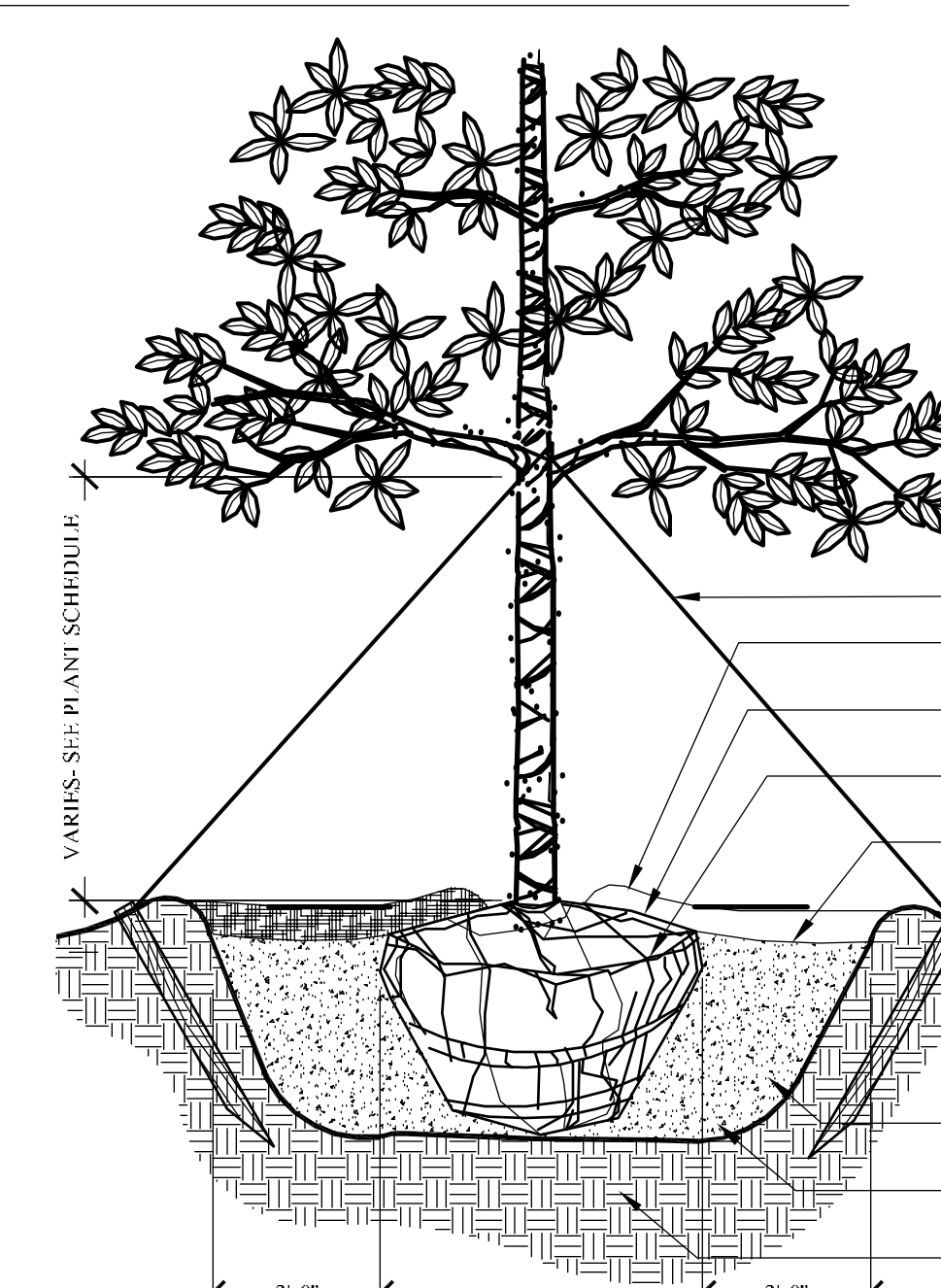
TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	REMARKS	
AMAR	10	Amelanchier arborea 'Autumn Brilliance'	Downy Serviceberry	B & B		8" Min.	3-5 - 1" canes	
ILAT	6	Ilex x attenuata 'Foster No. 2'	Foster No. 2 Holly	B & B	2" Cal	8" Min.	Strong central leader; Match specimens	
QUVI	3	Quercus virginiana	Southern Live Oak	B & B	4" Cal	12" Min.	Strong central leader; Match specimens	
ULPR	3	Ulmus americana 'Princeton'	American Elm	B & B	2" Cal	10" Min.	Strong central leader; Match specimens	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	REMARKS	
CLJA	75	Cleyera japonica	Cleyera	3 gal	18"-24"	14" - 16"	Full in pot; Spacing as shown	
LOCH	228	Loropetalum chinense 'Daruma'	Dwarf Loropetalum	3 gal	18"-24"	14" - 16"	Full in pot; Spacing as shown	
MYCE	18	Myrica cerifera	Wax Myrtle	3 gal	18"-24"	14" - 16"	Full in pot; Spacing as shown	
OSFR	32	Osmanthus fragrans	Sweet Olive	3 gal	18"-24"	14" - 16"	Full in pot; Spacing as shown	
PIPA	11	Pinus palustris	Longleaf Pine	3 gal	4'-5'	18"-24"	Full in pot; Spacing as shown	
VIOD	40	Viburnum odoratissimum 'Awabuki'	Awabuki Viburnum	3 gal	18"-24"	14" - 16"	Full in pot; Spacing as shown	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	SPACING	REMARKS
HEST	69	Hemerocallis stella D'oro	Daylily	1 gal	6" - 8"	6" - 8"	18" o.c.	
MULCH	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	SPACING	REMARKS
MULCH	8,081 sf	Mulch	Shredded Hardwood Mulch	mulch				Minimum 4" depth; Install weed inhibitor prior to install
SOD/SEED	QTY	BOTANICAL NAME	COMMON NAME	CONT	HEIGHT	SPREAD	SPACING	REMARKS
SOD	11,323 sf	Cynodon dactylon 'Tifway 419'	Bermuda Grass	sod				



Planting Plan
Scale: 1" = 20'

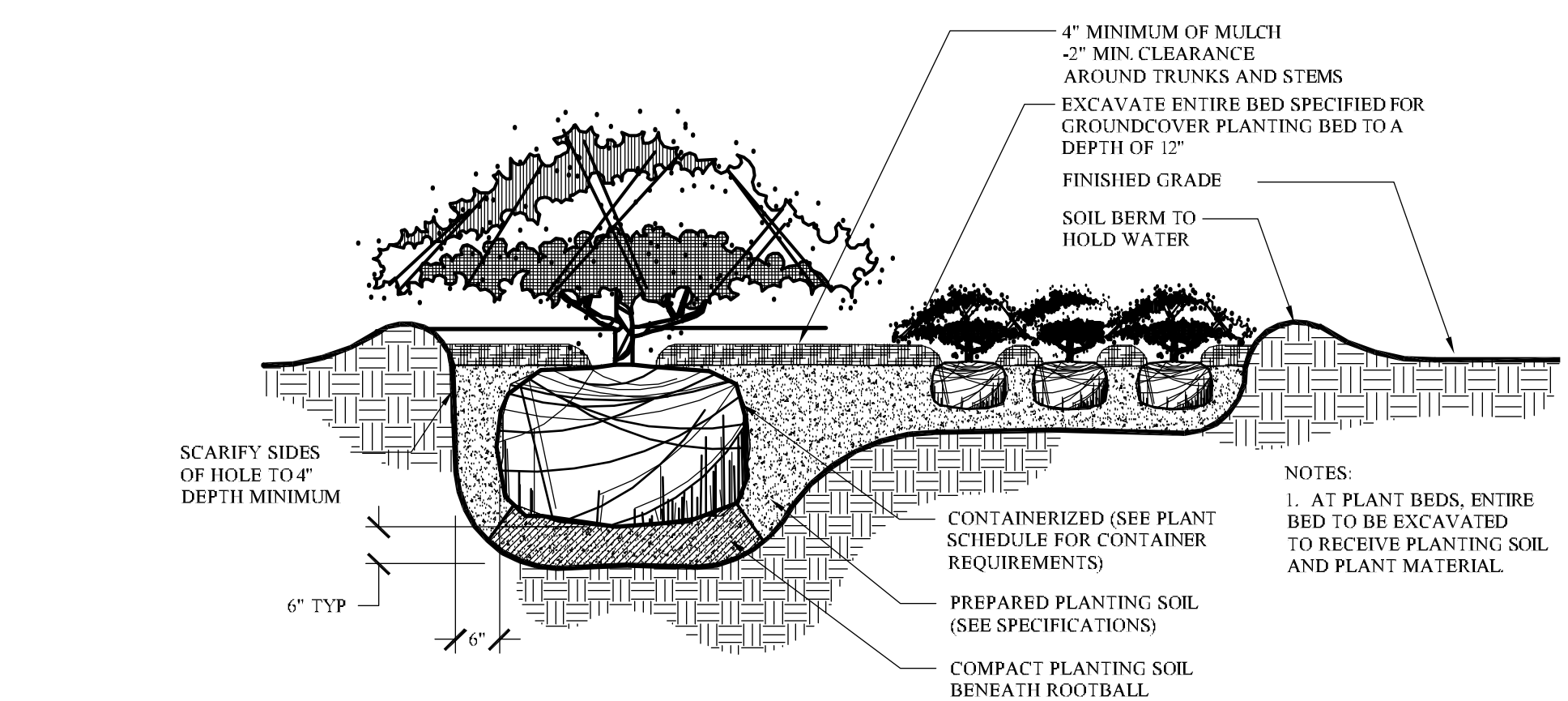


Tree Relocation Plan
Scale: 1" = 20'

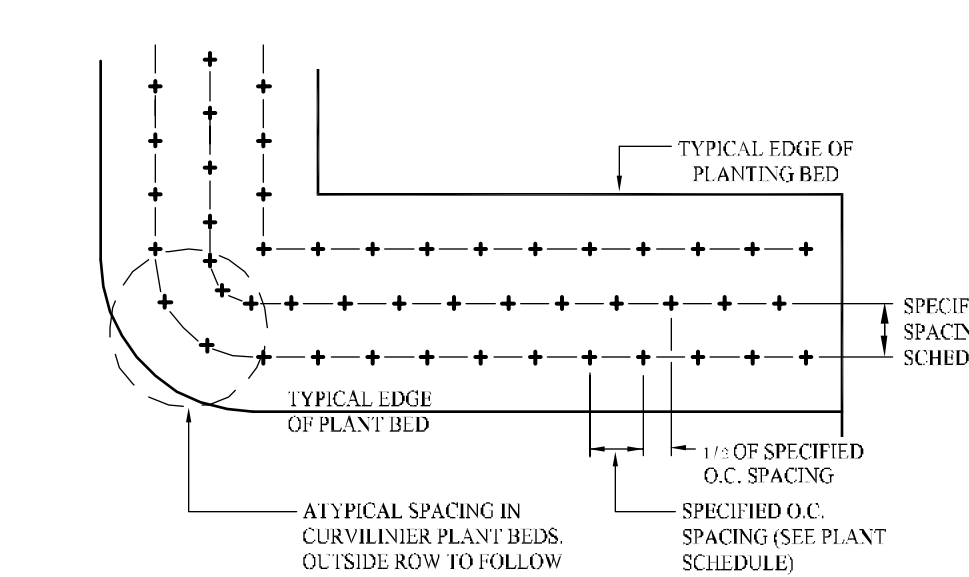


1 Shade Tree
Scale: N.T.S.

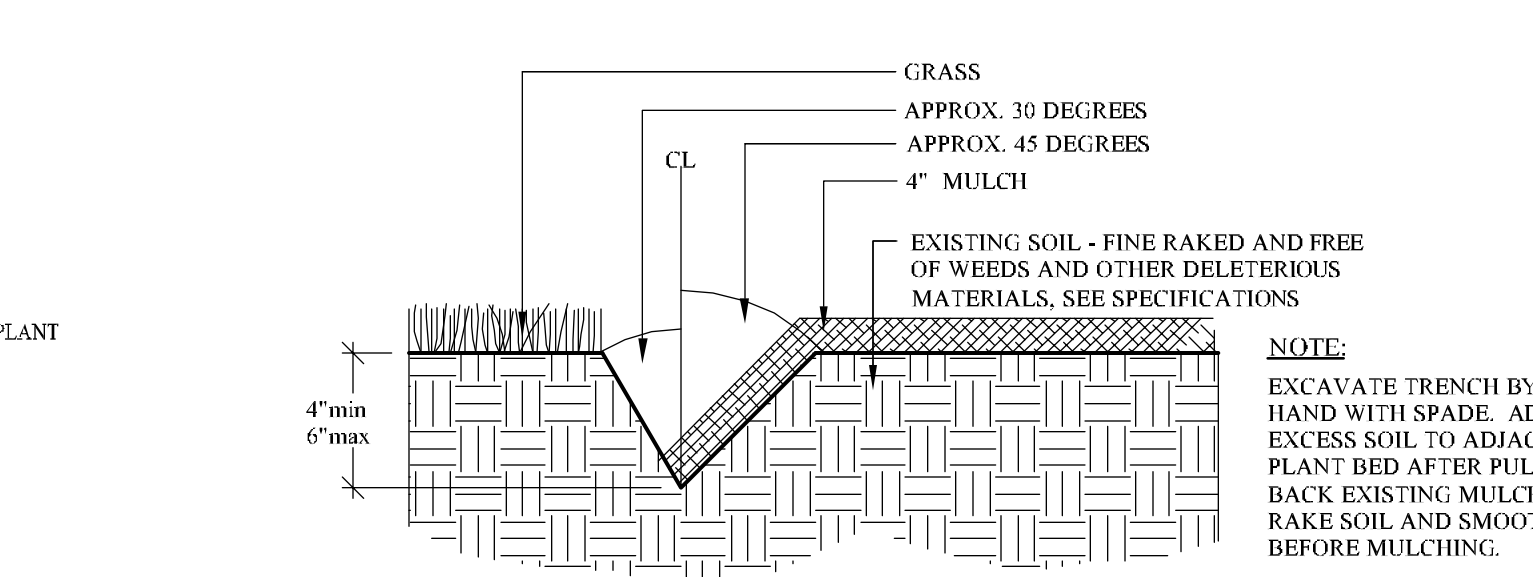
- NOTES:
- FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER'S REPRESENTATIVE.
 - NYLON BANDS SHOULD NOT BE SET RIGID TO ALLOW FOR THE TRUNK TO MOVE SLIGHTLY IN THE WIND.
 - SOAK ROOTBALL & PLANT PIT WITH WATER IMMEDIATELY AFTER INSTALLATION.
 - 4" OF SAWDUR WILL BE OUTSIDE OF BACKFILL.
 - SEE SPECIFICATIONS FOR OTHER PLANTING REQUIREMENTS.
 - REMOVE TREE WRAPPING AT TIME OF PLANTING.



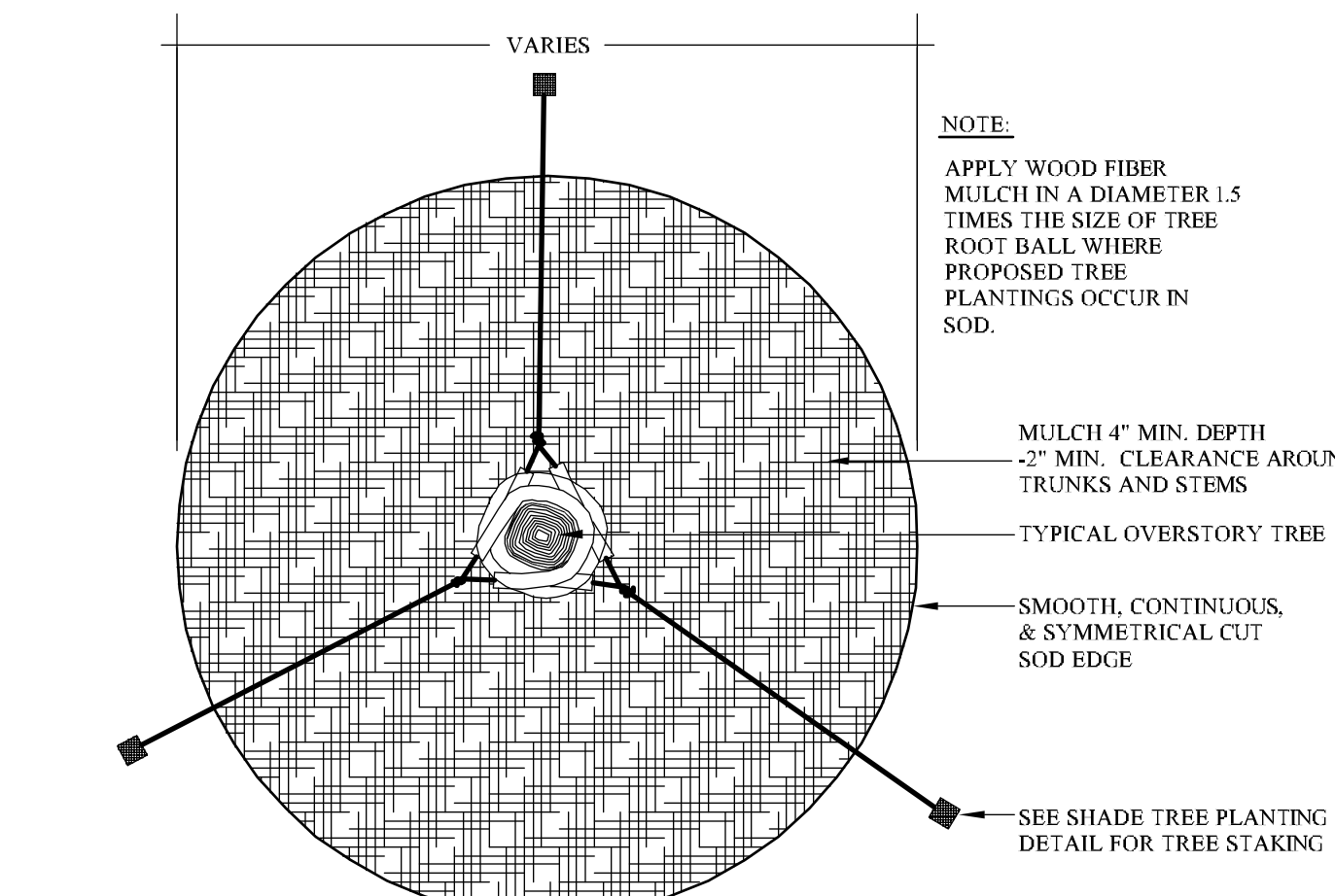
2 Shrub & Groundcover
Scale: N.T.S.



3 Groundcover Spacing
Scale: N.T.S.



4 Landscape Edge
Scale: N.T.S.



5 Tree Mulch Ring
Scale: N.T.S.

SEAL: [Stamp]

DATE: 3/8/2016

DRAWN BY: [Name]

CHECKED BY: [Name]

DESCRIPTION: [Text]

BUILDING: [Text]

PROJECT TITLE: GAMECOCK PARK SITE DEVELOPMENT H27-7260

LOCATED IN CITY OF COLUMBIA, RICHLAND COUNTY, SC

University of South Carolina

LANDSCAPE PLAN & DETAILS

SHEET IN SET: N/A



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
EST LCS RCS CST SST	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1806-SAM-PRS 12 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1806-SAM-PRS ADJ Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
EST LCS RCS CST SST	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
Q T H TQ F	Rain Bird 1812-SAM-PRS ADJ Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2" NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating Device.
R-WN 1318 R-WN 1724	Rain Bird RVAN18 1806-SAM-P45 Turf Rotator, 12" 18" Hand Adjustable Rotary Stream, w/1800 turf spray body, 6.0" Pop-Up. With Seal-A-Matic Check Valve and 45 psi in-stream pressure regulation.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
PC	Rain Bird PEB 1" 1/2" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Metal Cover, and 1" PEB Body.
GP	Cap from existing system Connection to an existing mainline or lateral line system. Connect from this point for new work. Contractor to verify location of cap prior to start of work.
PC	2 Wire Grounding Point Install 2 wire grounding point as per plan detail and manufacturers requirements.
PC	Point of Connection 3" Existing 3" Mainline
PC	Irrigation Lateral Line: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe. Only lateral transition pipe sizes 1 1/2" and above are indicated on the plan, with all others being 1" in size.
PC	Irrigation Mainline: PVC Class 200 SDR 21 PVC Class 200 irrigation pipe.
PC	Pipe Sleeve: PVC Schedule 40 Irrigation Pipe Sleeve. Sleeve to be 2X the size of the pipe within the sleeve. Extend sleeves 18" beyond the hardscape edge.
PC	Valve Callout
PC	Valve Number
PC	Valve Flow
PC	Valve Size

CRITICAL ANALYSIS

Generated: 2016-02-24 07:54

P.O.C. NUMBER: 01

Water Source Information: Existing 3" Mainline

FLOW AVAILABLE

Point of Connection Size: 3"

Flow Available: 181.61 gpm

PRESSURE AVAILABLE

Static Pressure at POC: 80.00 psi

Pressure Available: 80.00 psi

DESIGN ANALYSIS

Maximum Multi-valve Flow: 75.00 gpm

Flow Available at POC: 181.61 gpm

Residual Flow Available: 106.61 gpm

Critical Station: A36

Design Pressure: 45.00 psi

Elevation Loss: 0.00 psi

Friction Loss: 3.61 psi

Fittings Loss: 0.39 psi

Loss through Valve: 3.59 psi

Pressure Req. at Critical Station: 52.56 psi

Loss for Fittings: 0.04 psi

Loss for Main Line: 0.36 psi

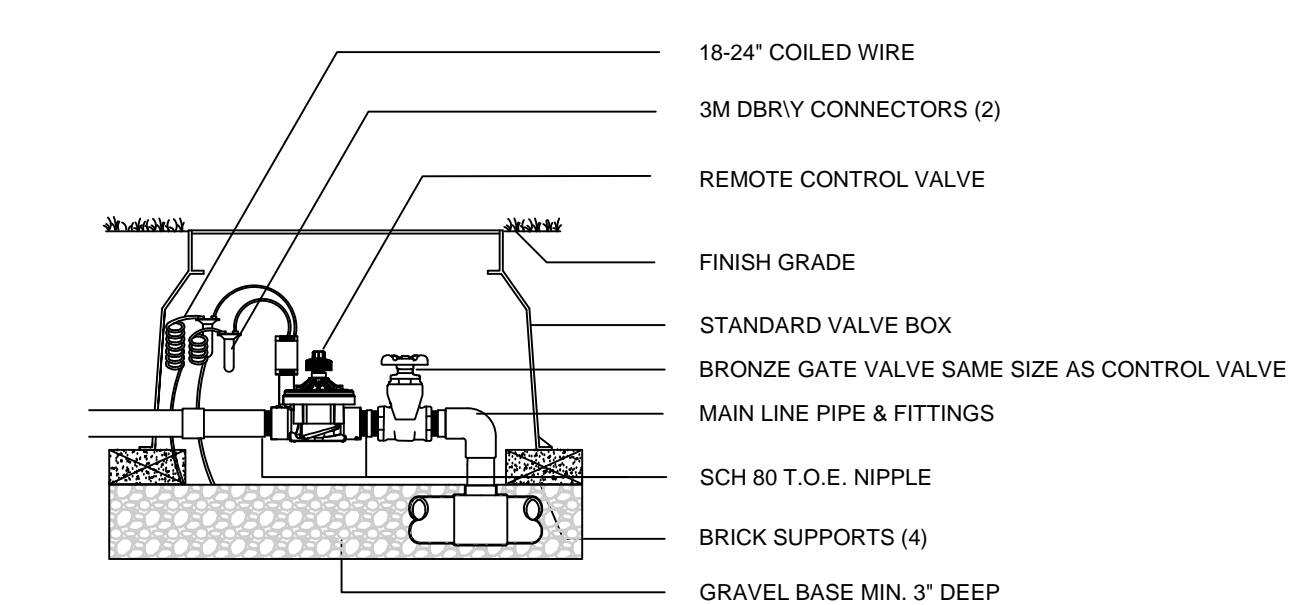
Loss for POC at Valve Elevation: 0.00 psi

Loss for Backflow: 0.00 psi

Critical Station Pressure at POC: 52.56 psi

Pressure Available: 80.00 psi

Residual Pressure Available: 27.04 psi



REFERENCE NOTES SCHEDULE

- New parking irrigation water source to be existing 3" mainline running under the existing drive. During demo locate existing mainline, remove elbow, install cap until connection to new mainline is installed.
- Approximate location of the 6" sleeve, 3" mainline, 1" control wire conduit and control wire. Verify location during demo.
- During demo terminate control wire conduit and control wire in a new 14" valve box. Extend 1" PVC SCH 40 electrical conduit and control wire to all new control valves as per plan notes and details.
- Former zone A36 for the trees along Bluff Rd to become new zone A40.
- Locate and cap lateral pipe from zone A36 to the trees along Bluff Rd. Reconnect existing lateral to new lateral from new zone A40.
- Existing zone A35 is replaced by new zone A41. Connect new control valve and lateral pipe to existing zone along Bluff Rd.
- Existing spray zone along Bluff Rd. Connect to new zone A41.
- Pipe location is diagrammatic. Install all pipe as per plan notes and details.

VALVE SCHEDULE

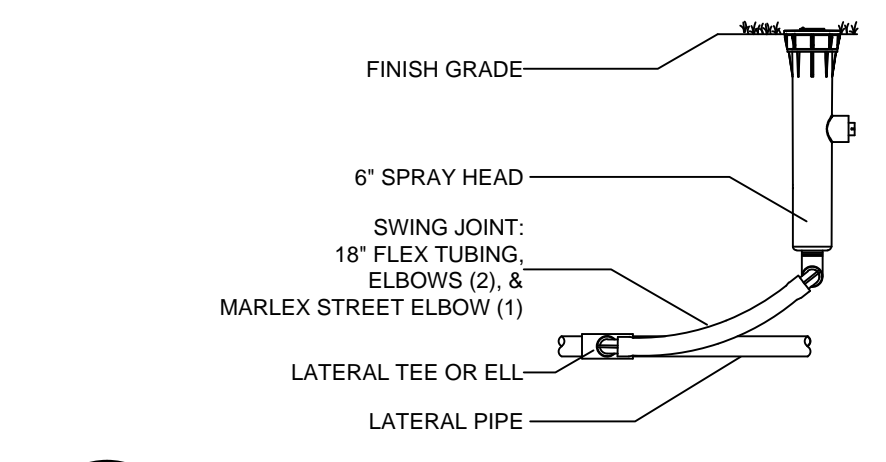
NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
A32	Rain Bird PEB	1-1/2"	Shrub Spray	37.85	40.41	34.91	1.40 in/h
A33	Rain Bird PEB	1"	Turf Spray	33.66	36.34	16.45	1.48 in/h
A34	Rain Bird PEB	1"	Turf Spray	32.54	33.11	14.52	1.28 in/h
A35	Rain Bird PEB	1"	Shrub Spray	32.37	32.85	12.28	1.48 in/h
A36	Rain Bird PEB	1-1/2"	Turf Rotary	52.56	52.96	31.33	0.60 in/h
A37	Rain Bird PEB	1-1/2"	Shrub Spray	34.19	35.54	24.62	1.65 in/h
A38	Rain Bird PEB	1-1/2"	Turf Spray	34.08	36.21	36.79	1.51 in/h
A39	Rain Bird PEB	1-1/2"	Turf Spray	35.39	37.05	27.63	2.01 in/h
A40	Rain Bird PEB	1"	Turf Spray	41.87	44.33	4.50	Unknown
A41	Rain Bird PEB	1-1/2"	Turf Spray	45.36	47.76	28.50	Unknown
A42	Rain Bird PEB	1-1/2"	Shrub Spray	34.81	37.75	30.40	1.42 in/h
A43	Rain Bird PEB	1-1/2"	Turf Spray	34.88	37.00	32.56	1.48 in/h

GENERAL NOTES

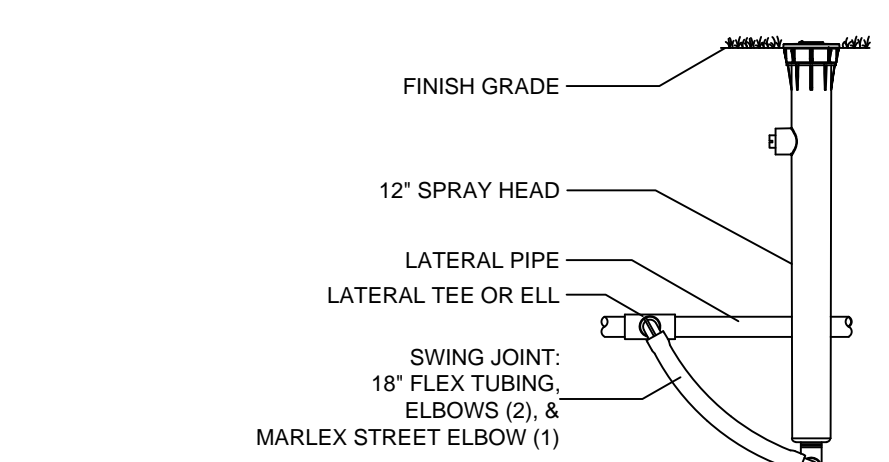
- ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE
- MAINLINE TO HAVE MINIMUM OF 24" OF COVER AND A MINIMUM OF 18" OFF OF THE HARDSCAPE
- LATERALS IN DRIVE LANES AND PARKING AREAS TO HAVE MINIMUM OF 22" OF COVER AND A MINIMUM OF 12" OFF OF THE HARDSCAPE. LATERAL IS GENERAL LANDSCAPE TO HAVE A MINIMUM OF 12" OF COVER
- NO ROCKS, BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL
- ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS
- SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS
- TWO WIRE CONTROL WIRE TO BE 14 GA UL 2 CONDUCTOR, JACKETED, INSTALLED IN 1" PVC ELECTRICAL CONDUIT, SEE DETAIL FOR VALVE BOX ENTRY AND EXIT
- WIRE SPLICES TO BE DONE AS PER DETAILS
- ALL WIRE SPLICES OUTSIDE OF CONTROL VALVE BOX TO BE IN 10" VALVE BOX
- TWO WIRE TO BE COLOR CODED: BLUE AND RED
- CONTRACTOR SHALL INSTALL MANUFACTURERS GROUNDING EQUIPMENT ON BOTH THE POWER AND OUTPUT SIDES
- SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO NON-IRRIGATED AREAS
- ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS FOLLOWS: A 14" RECTANGULAR MINIMUM FOR EACH ELECTRIC CONTROL VALVE
- SPRINKLERS TO BE INSTALLED 12" FROM FOUNDATIONS AND 2" FROM HARDSCAPE
- CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED TO MAINTAIN PROPER COVERAGE
- ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS
- ALL VALVES, QUICK COUPLER VALVES, WIRE SPLICES TO BE IN LANDSCAPED BEDS WHENEVER POSSIBLE
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF AREA TO BE IRRIGATED, MAKE ADJUSTMENTS AS NECESSARY, OVER SPRAY INTO PLANT BEDS MAY BE NECESSARY TO PROVIDE WATER TO THOSE PLANTS
- CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES REPAIRING ANY DAMAGES AT HIS OWN COST
- PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS
- ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED TO THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION
- CONTRACTOR TO PROVIDE 1 YEAR WARRANTY OF ALL PRODUCTS AND WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START-UP
- CONTRACTOR TO PROVIDE OWNER AND/OR LANDSCAPE ARCHITECT RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION
- INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY
- IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT INSTALLATION
- CLEANUP AND DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT, CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R.O.W.
- PREFERRED CONTRACTOR WILL BE IRRIGATION ASSOCIATION CERTIFIED CONTRACTOR (CIC)

TWO WIRE CONTROL SYSTEM NOTES

- ALL DECODER WIRE SPLICE CONNECTORS TO BE 3M DBRY-6 OR BETTER.
- ALL DECODER TO VALVE SOLENOID SPLICE CONNECTORS TO BE 3M DBRY-6 OR BETTER
- ALL GROUNDING POINTS TO HAVE LSP-1 LIGHTNING ARRESTOR INSTALLED INLINE AS PER MANUFACTURERS REQUIREMENTS AND INSTALLED AS PER DETAIL
- ALL RAIN BIRD PRODUCTS TO BE INSTALLED AND OPERATED AS PER THE MANUFACTURERS RECOMMENDATIONS AND OR REQUIREMENTS.
- CONTRACTOR TO HAVE INSTALLED A MINIMUM OF FIVE 2-WIRE SYSTEMS WITHIN THE PAST 3 YEARS. PROVIDE PROJECT NAME, LOCATION, NUMBER OF STATIONS, CONTROL SYSTEM TYPE AND ON SITE CONTACT PERSON NAME, PHONE NUMBER AND E-MAIL ADDRESS AS PART OF THE BID PACKAGE.**
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIREMENTS NECESSARY TO OBTAIN RAIN BIRD 5 YEAR WARRANTY. PROVIDE 5 YEAR WARRANTY PRIOR TO SUBSTANTIAL COMPLETION
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR TRAINING OWNERS STAFF, AS NEEDED, ON THE OPERATION AND MAINTENANCE OF RAIN BIRD CONTROL SYSTEM.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COMPLETE PROGRAMMING AND OPERATION OF CONTROL SYSTEM FOR 1 YEAR FROM THE DAY THE CONTROLLER BECOMES FUNCTIONAL.
- CONTRACTOR TO PROVIDE THE OWNERS REPRESENTATIVE A COMPUTER SPREAD SHEET THAT SHOWS EACH PROGRAM, OPERATIONAL DAYS AND RUN TIMES PER ZONE.
- CONTROLLER AND FLOW SENSOR ARE TO BE PROGRAMMED FOR FLOW MAXIMIZATION.

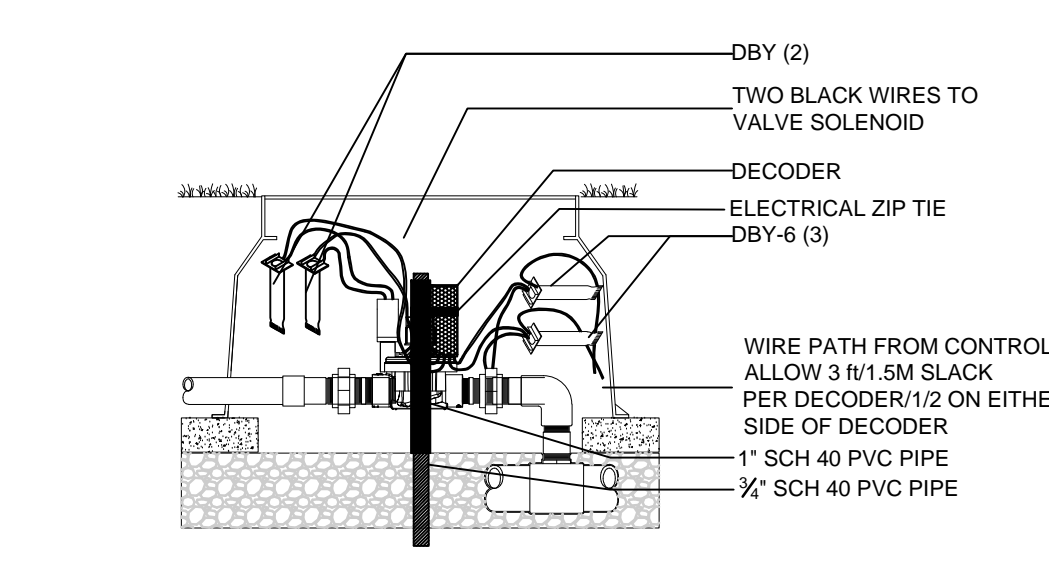


1 6" SPRAY

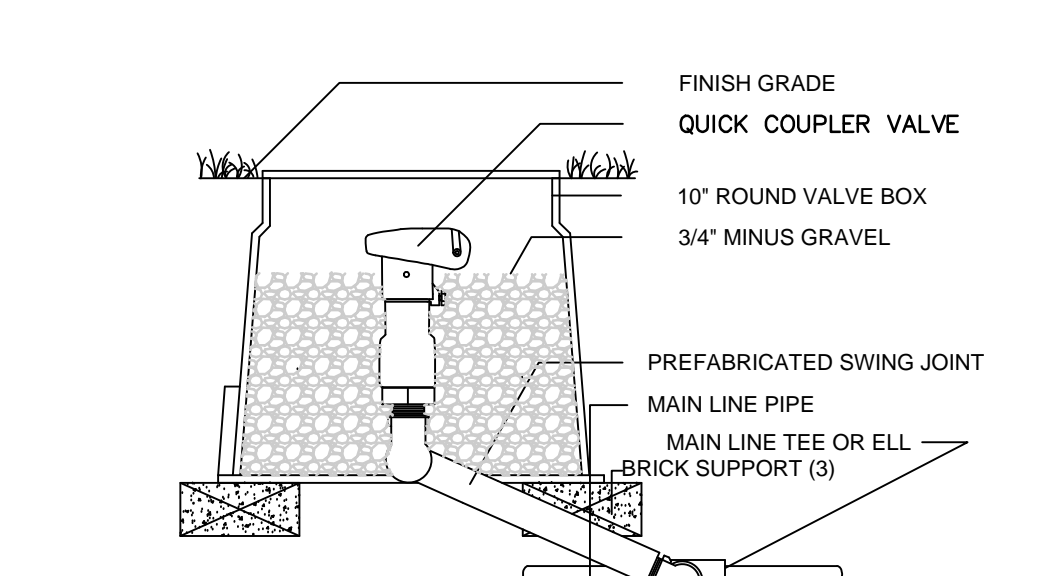


2 12" SPRAY

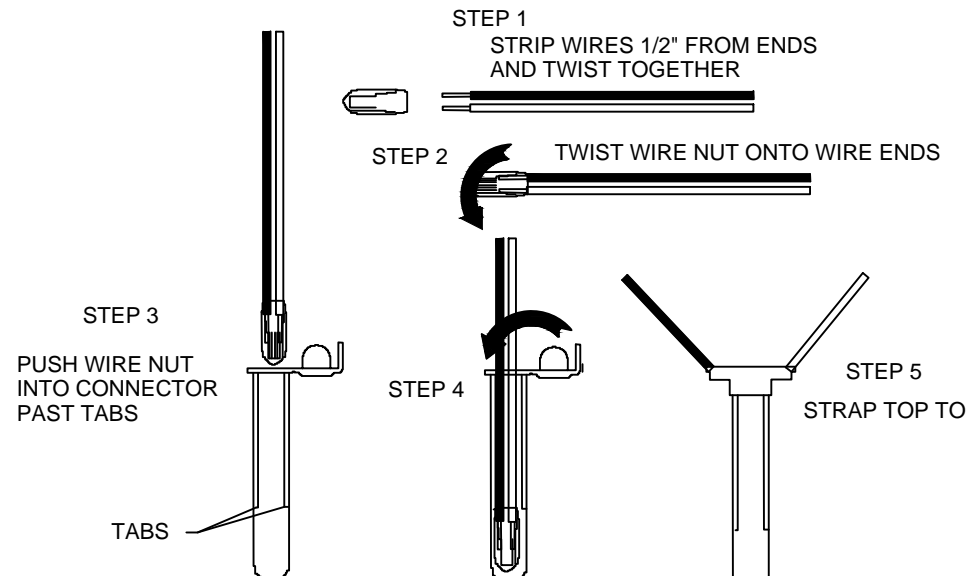
3 ELECTRIC CONTROL VALVE



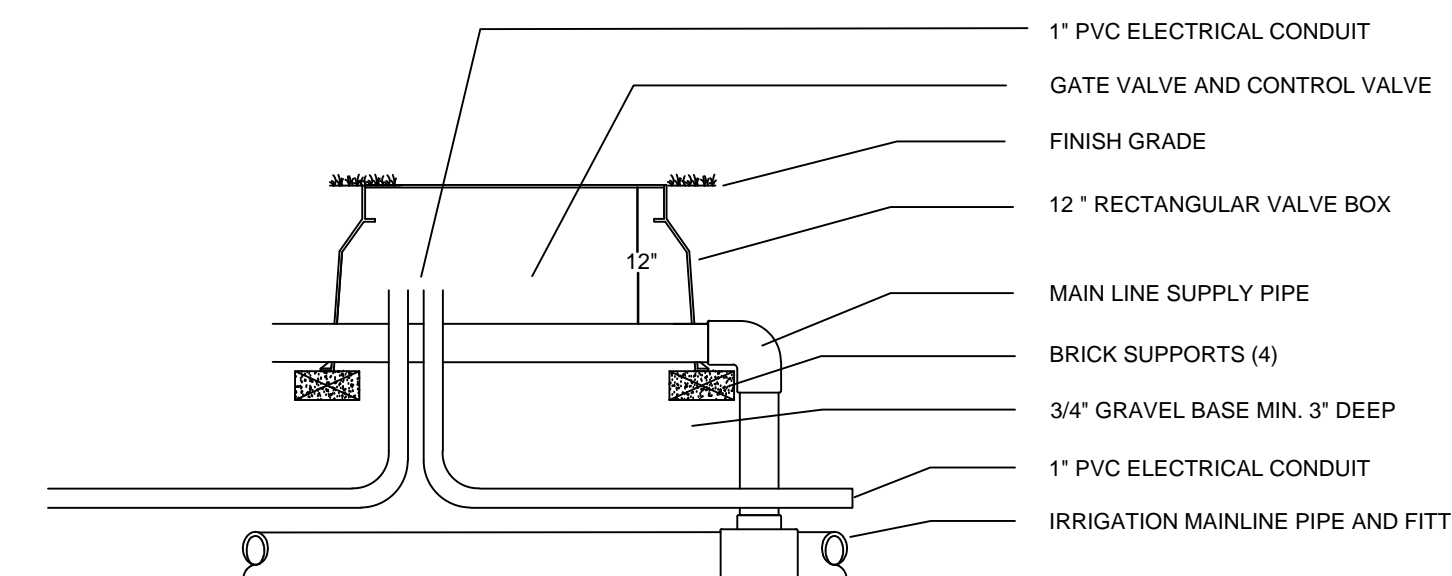
4 DECODER VALVE BOX INSTALLATION



5 QUICK COUPLER VALVE



6 WIRE CONNECTION 3M-DBRY-6



7 IRRIGATION CONTROL WIRE CONDUIT

COX AND DINKINS
ENGINEERS - SURVEYORS

COX AND DINKINS, INC.
724 BELTLINE BLVD
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdinc@coxanddinkins.com
C&D PROJECT# 1537

Wood+Partners Inc. WPI
Landscape Architects
Landscape Planners

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Lawrence, GA 30553
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F 706-356-1948

CAMPUS PLANNING AND CONSTRUCTION COLUMBIA, SC 29208

PROJECT TITLE: GAMECOCK PARK SITE DEVELOPMENT State Project H27-Z260
LOCATED IN CITY OF COLUMBIA, RICHLAND COUNTY, SC

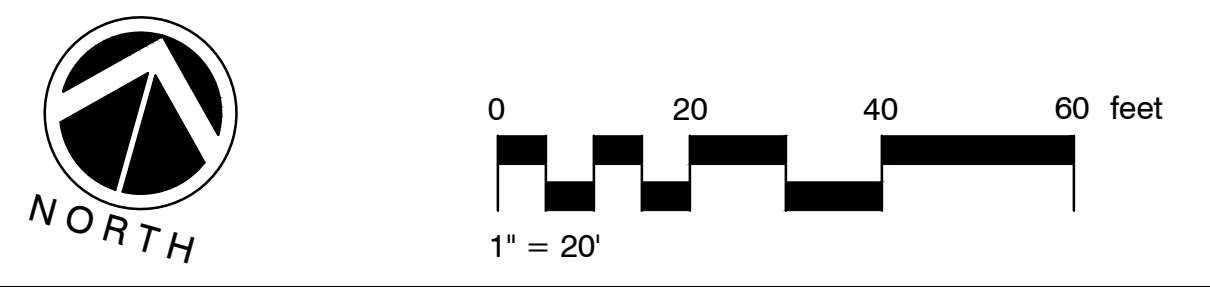
UNIVERSITY of South Carolina

SHEET: IRRIGATION PLAN 11.1
SHEET IN SET: N/A

DATE: March 6, 2016

DRAWN BY: BH/ETL
CHECKED BY: KT
DATE: 3/6/16

DRAWING: N/A
BUILDING: N/A
REV: N/A





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CAMPUS PLANNING
AND CONSTRUCTION
COLUMBIA, SC 29208

SEAL:

SEAL:

CHECKED BY:

KT

DATE

ORIG. BY:

DATE

BH/EL

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DRAWN BY:

March 6, 2016

DATE

DESCRIPTION

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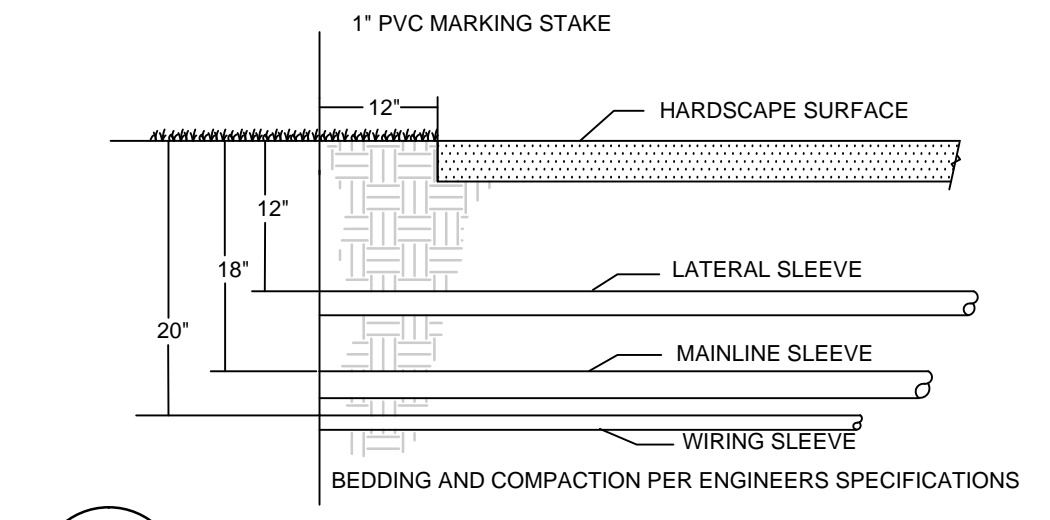
REV.

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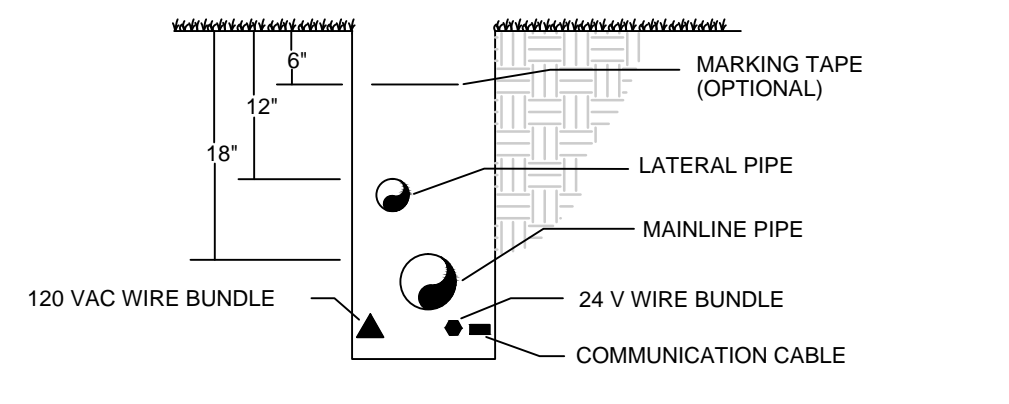
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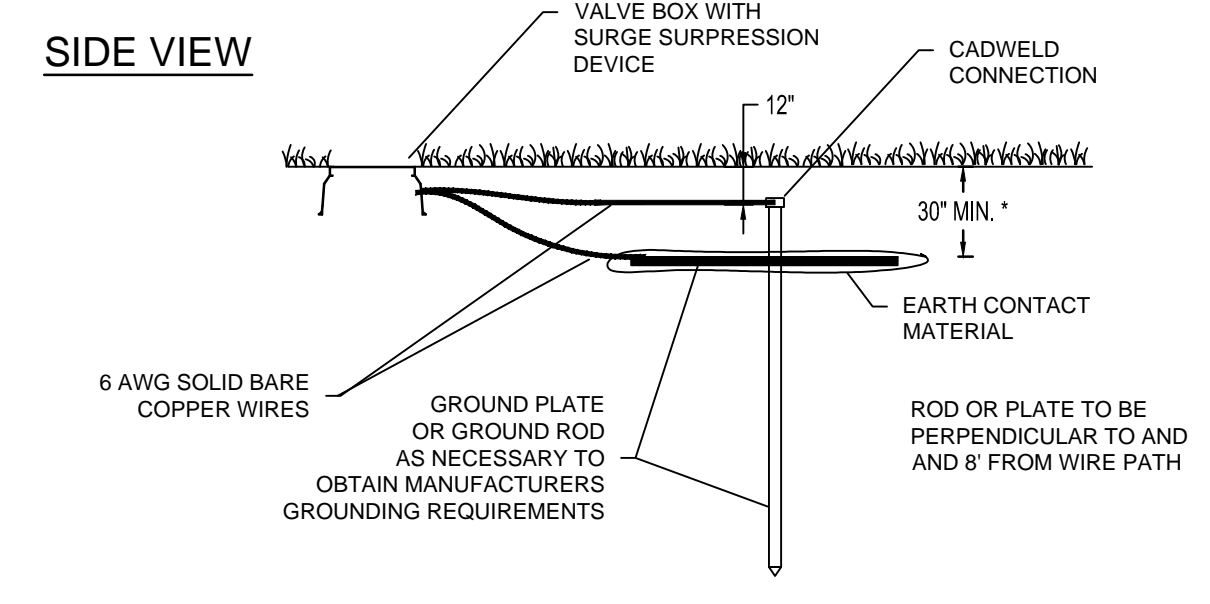
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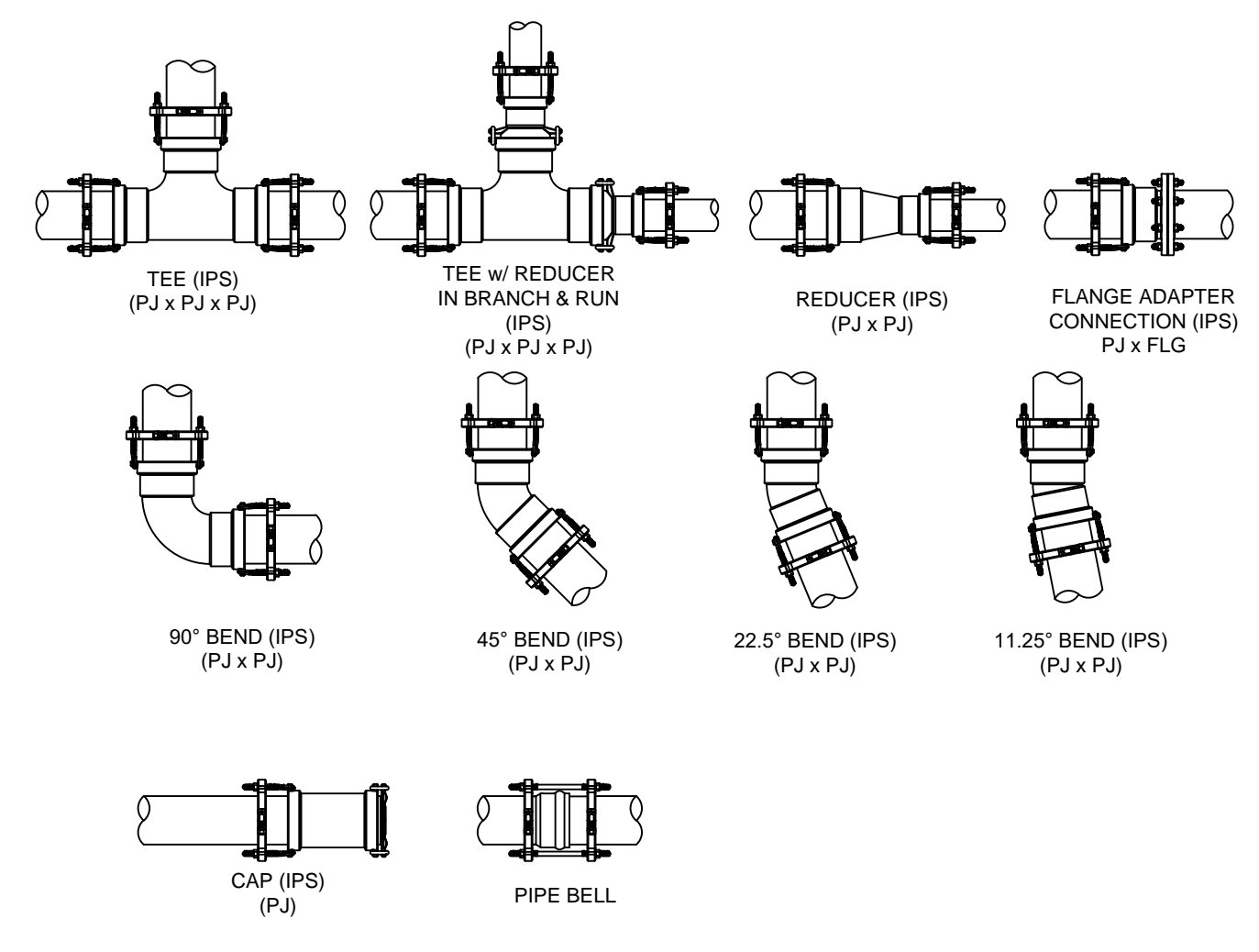
8 SLEEVING
NTS



9 TRENCH, PIPE AND WIRE
NTS

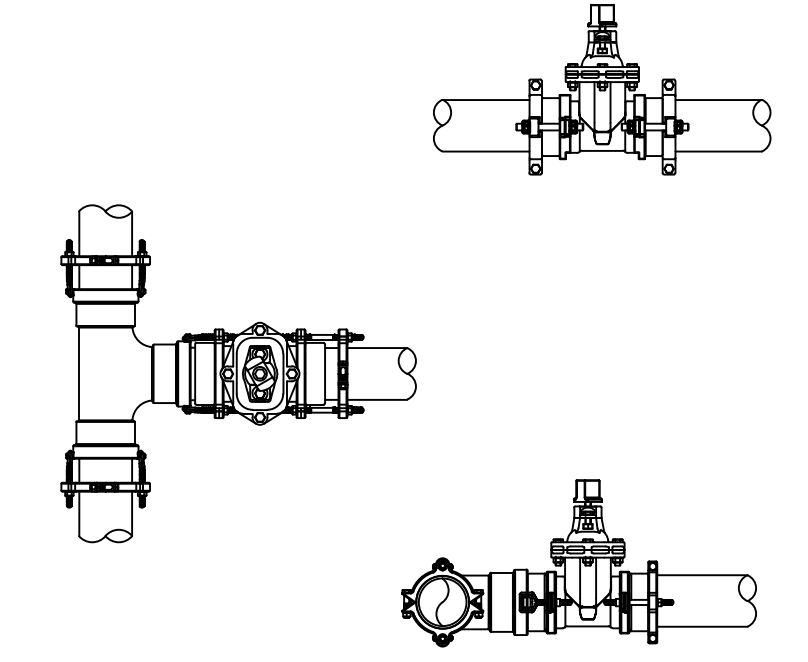


10 TWO WIRE GROUNDING POINT DETAIL
NTS



ALL FITTING, VALVE AND PIPE JOINT RESTRAINT TO BE INSTALLED AS PER MANUFACTURERS REQUIREMENTS. SEE WWW.HARCOFITTINGS.COM FOR JOINT RESTRAINT INSTALLATION INFORMATION.

11 GASKET FITTING JOINT RESTRAINT
NTS



ALL FITTING, VALVE AND PIPE JOINT RESTRAINT TO BE INSTALLED AS PER MANUFACTURERS REQUIREMENTS. SEE WWW.HARCOFITTINGS.COM FOR JOINT RESTRAINT INSTALLATION INFORMATION.

12 VALVE TO PIPE RESTRAINT
NTS

PROJECT TITLE: GAMECOCK PARK SITE DEVELOPMENT
State Project H27-Z260
LOCATED IN CITY OF COLUMBIA, RICHLAND COUNTY, SC
University of South Carolina

SHEET: IRRIGATION PLAN

11.2

SHEET IN SET: N/A

ELECTRICAL NOTES:

GENERAL:

- G1. WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED, IT SHALL BE INFERRED TO MEAN "PROVIDE AND INSTALL". UNLESS...
G2. BRANCH CIRCUITS SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.
G3. 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE OR FIXTURE SHALL USE NO. 10 CONDUCTORS AND 3/4" C.
G4. PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS, MILLWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5"-0" IN ANY DIRECTION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
G5. WHERE DEVICES ARE REQUIRED TO BE IDENTIFIED, PROVIDE ENGRAVED PLATE USING 1/8" HIGH BLACK LETTERS.
G6. PROVIDE AND INSTALL AN ENGRAVED LAMINATED PLASTIC NAMEPLATE ON EACH PANELBOARD, POWER PEDESTAL AND ALL COMMUNICATIONS EQUIPMENT, TO INDICATE THE DESIGNATION OF THE UNIT ON THE PLANS AND THE FEEDER OR BRANCH CIRCUIT SERVING THE EQUIPMENT.
G7. SECURITY AND COMMS SYSTEMS (SIGNAL WIRING, TERMINATIONS AND SIGNAL EQUIPMENT) SHALL BE FURNISHED AND INSTALLED BY USC. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, NEMA BOXES HANDHOLES AND POWER CIRCUIT WIRING FOR THESE SYSTEMS. PROVIDE PULL WIRES IN ALL SIGNAL CONDUITS.
G8. EXACT LOCATIONS OF STREETLIGHTS, PAD-MOUNTED TRANSFORMERS & SWITCHES, HANDHOLES, POWER PEDESTALS AND ALL OTHER SITE ELECTRICAL EQUIPMENT SHALL BE STAKED AND APPROVED BY THE CIVIL ENGINEER & LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
G9. LOCATIONS OF STREETLIGHTS SHOWN ON ELECTRICAL PLANS ARE FOR GENERAL CIRCUITING INFORMATION. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR COORDINATION WITH TREES AND OTHER PLANTINGS, AND UNDERGROUND UTILITY LINES AND EASEMENTS.
G10. COORDINATE WITH SCE&G FOR POSSIBLE REMOVAL OF OVERHEAD GUY WIRE.
G11. THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
G14.1: A COMMON NEUTRAL MAY NOT BE INSTALLED.
G14.2: MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER 2008 NEC ARTICLE 310.15.
G14.3: BRANCH CIRCUIT AND FEEDER CIRCUIT SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
G14.4: A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.

LIGHTING:

- L1. COORDINATE SITE LIGHTING LOCATIONS WITH CIVIL AND LANDSCAPING PLANS.
L2. LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
L3. CATALOG NUMBERS INDICATED IN THE LIGHTING FIXTURE SCHEDULE ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, SUSPENSION COMPONENTS, VOLTAGE, LAMPS, BALLASTS, AND OPTIONS NECESSARY FOR INSTALLATION.
L4. SITE LIGHTING FIXTURES SHALL BE PROVIDED W/ ACCESSORIES TO ALLOW FOR 50% DIMMING OF LAMPS, W/ REMOTE SIGNALING FROM LIGHTING CONTROL PANELS (SEE NOTE L10). PROVIDE 1" W/ 24VDC 3-CONDUCTOR CABLE FOR EACH CIRCUIT AND CONNECT TO CONTROLLER FOR EACH FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE.

DEMOLITION:

- ED1. DEMOLITION AND REMOVAL OF MOST OF THE FACILITIES ON SITE WAS ACCOMPLISHED UNDER WORK PREVIOUSLY PERFORMED. COORDINATE WITH USC, SCE&G AND OTHER UTILITY COMPANIES AND TRADES TO REMOVE ANY REMAINING EQUIPMENT INDICATED TO BE DEMOLISHED, INCLUDING UTILITY POLES, OVERHEAD LINES AND POLE-MOUNTED LIGHTING AND GEAR, ABANDONED HANDHOLES AND UNDERGROUND UTILITY DUCTS. ALL MATERIALS TO BE DEMOLISHED SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES.
ED2. EXISTING OVERHEAD POWER LINES, POLES, LIGHTS, GUYS AND OTHER POLE-MOUNTED GEAR IN SITE INTERIOR SHALL BE DISCONNECTED AND REMOVED BY SCE&G. LINES SHALL BE REMOVED BACK TO POLES AROUND PERIMETER OF SITE. CONTRACTOR SHALL COORDINATE WITH SCE&G DURING DEMOLITION.

POWER:

- P1. THE GROUND ROD CLUSTER FOR THE SERVICE GROUND SHALL CONSIST OF (3) 3/4" x 10'-0" COPPER CLAD STEEL GROUND RODS. THEY SHALL BE DRIVEN IN TRIANGULAR CONFIGURATION APPROXIMATELY 20' APART AND IN DELTA WITH A No.4/0 BARE COPPER CONDUCTOR. TOPS OF THE RODS SHALL BE 12" BFG. CONNECTIONS TO RODS SHALL BE MADE WITH EXOTHERMIC WELDS. REFER TO GROUNDING SYSTEM DETAIL.
P2. PROVIDE POWER CONDUIT AND WIRING AS INDICATED ON PLANS FOR SECURITY EQUIPMENT THROUGHOUT SITE. SECURITY EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY USC. FINAL CONNECTIONS TO EQUIPMENT SHALL BE BY USC.
P3. COORDINATE W/ SCE&G & TELECOMM UTILITIES TO RECONFIGURE POLES AND LINES TO ACCOMMODATE CONSTRUCTION OF PARKING LOT.

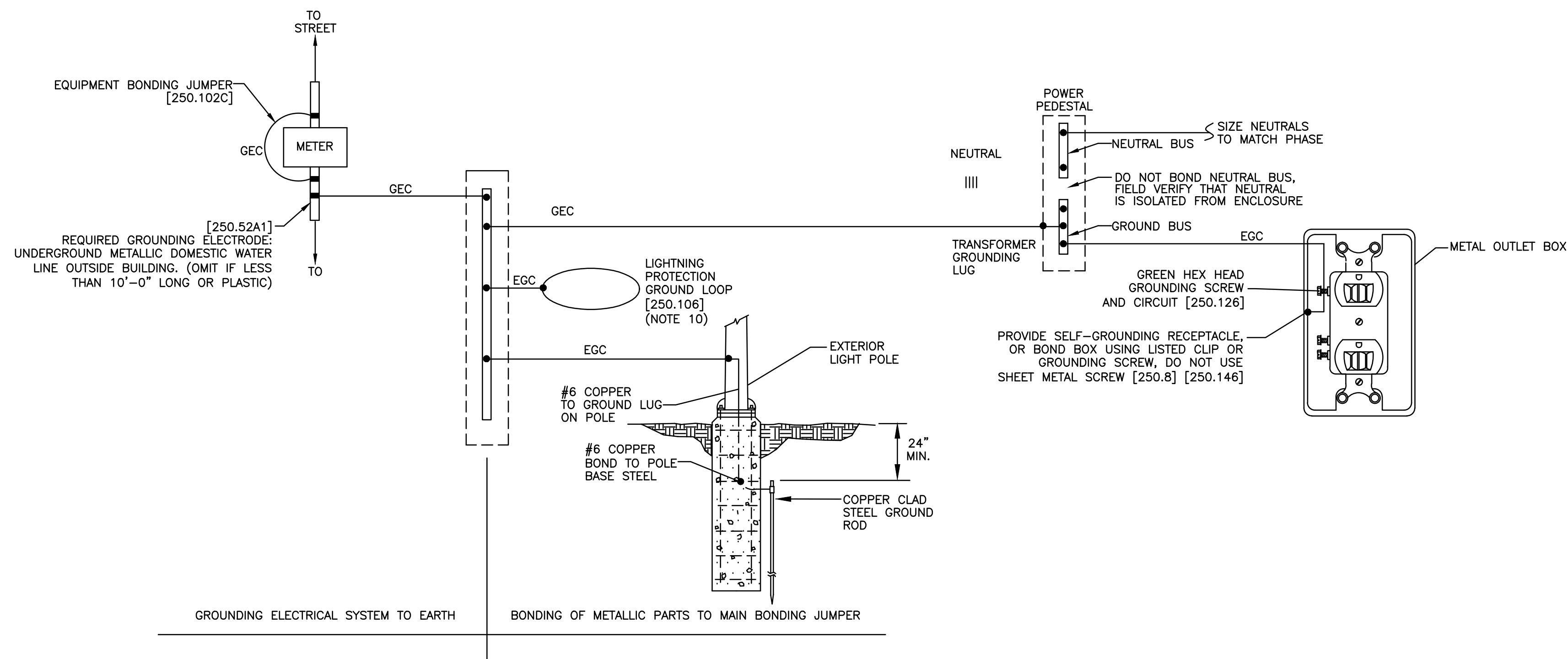
SIGNAL:

- S1. TELECOMM CONTACTS:
USC: GEORGE PEDRAZA, PH 803-777-5311, EM PEDRAZA@MAILBOX.SC.EDU
SCANA: TOM COONEY, PH 803-217-8443, EM T.COONEY@SCANA.COM
TIME WARNER CABLE: STEVE JONES, PH 803-744-9514, EM STEVE.JONES@TWCABLE.COM
DUKENET: RAYMOND RAGUSKY, PH 704-382-6640, EM RAYMOND.RAGUSKY@DUKENET.COM
LEVEL(3): RUSS WHEAT, PH 803-239-1116, EM RUSS.WHEAT@LEVEL3.COM
S2. CATV CABLE TO BE EXTENDED TO EVERY PARKING SPACE PEDESTAL SOUTHEAST LOTS (SEE NOTE P5). EXTEND (2) 4" C W/ RG-6 COAX CABLES FROM COMM (FOR NORTHEAST LOT) AND BUILDING 4 (FOR SOUTHEAST LOT) TO EXTEND 2" C W/ RG-6 CABLES FROM HANDHOLES TO PEDESTALS IN SERIES. EACH CABLE SHALL BE RUN TO PEDESTALS IN SERIES AND CONNECTED TO CATV OUTLETS. NO MORE THAN (8) OUTLETS SHALL BE CONNECTED TO EACH CABLE. COORDINATE LAYOUT, PULLING AND TERMINATIONS OF CABLES W/ USC AV ENGINEERING SERVICES; CONTACT: JEFF HOSTILO, PH 803-777-3411, EM JHOSTILO@MAILBOX.SC.EDU
S3. PROVIDE CONDUIT AS INDICATED ON PLANS FOR ROUTING OF SECURITY COMMUNICATIONS CIRCUITS THROUGHOUT SITE. SECURITY CALLBOXES AND CAMERAS WILL BE PROVIDED AND INSTALLED BY USC. CONTRACTOR SHALL PROVIDE RACEWAYS FROM COMMUNICATIONS ROOMS IN CORRESPONDING BUILDINGS. PROVIDE A HANDHOLE AT THE BASE OF EACH CALLBOX AND AT LOCATION OF EACH CAMERA. HANDHOLES SHALL BE 13"x24"x18", OPEN BOTTOM WITH GASKETED COVER LABELED "SECURITY", QUAZITE PG1324BB18 OR EQUAL. PROVIDE CONCRETE ANCHOR BASE FOR EACH CALLBOX. CAMERAS NOT SHOWN TO BE MOUNTED ON A CALLBOX SHALL BE ATTACHED BY USC TO NEAREST LIGHT POLE

LEGEND

- MH LANTERN ON DECORATIVE LAMPPOST
EXISTING MH LANTERN ON DECORATIVE LAMPPOST
(2) TAILGATE PARKING RECEPTACLE/CATV HOOKUP, 42" AFG (NUMERAL INDICATES NUMBER OF SPACES SERVED) MOUNT MINIMUM OF 3' FROM CURB STOP
SECURITY CAMERA, FIXED, POST-MOUNTED, 6' AFG, UNO
EXISTING RELOCATED SECURITY BLUE LIGHT CALLBOX, POST-MOUNTED. CONTRACTOR INSTALL IAW DETAIL
EXISTING HANDHOLE
NEW CONSTRUCTION HANDHOLE 24"x36"x24"
NEW CONSTRUCTION HANDHOLE 13"x24"x18"
ABOVE GROUND "HOFFMAN" NEMA 4 BOX W/ KEY LOCK 110V/20A : 24"x20"x10". PROVIDE 1-5/8" HEAVY DUTY FIBER GLASS UNISTRUT IN GROUND SUPPORT
PENCELLLL AGVNS-1010-20 ABOVE GROUND CATV PEDESTAL 31"x10"
PULL-BOX 13"x15"
UTILITY POLE, EXISTING
GUY WIRE, EXISTING
SIGN FIXTURE, GROUND-MOUNTED

ELECTRICAL CODES & STANDARDS
CODE DESCRIPTION
IBC (2012) INTERNATIONAL BUILDING CODE
NFPA 70 (2011) NATIONAL ELECTRICAL CODE



- NOTES:
1. GEC- GROUNDING ELECTRODE CONDUCTOR, SIZE PER NEC TABLE 250.66, PROVIDE IN CONDUIT WITH GROUNDING BUSHING ON EACH END OF CONDUIT, WITH BONDS ALSO SIZED PER NEC TABLE 250.64E.
2. EGC- EQUIPMENT GROUNDING CONDUCTOR, SIZE PER NEC TABLE 250.122, ACTUALLY A BONDING CONDUCTOR, DOES NOT CONNECT TO GROUND, CONNECTS METAL BACK TO SYSTEM NEUTRAL TO OPERATE OVERCURRENT PROTECTION. PARALLEL SETS OF CONDUCTORS REQUIRE PARALLEL EGC'S, EACH SIZED TO OVERCURRENT DEVICE RATING [250.122].
3. MBJ- MAIN BONDING JUMPER, SIZE PER NEC TABLE 250.66 OR 12.5% OF CONDUCTOR SIZE [250.28], DO NOT BOND ON LOAD SIDE OF SERVICE DISCONNECT (I.E. SUB-PANEL NEUTRAL BUS TO ENCLOSURE), WILL CAUSE POWER QUALITY PROBLEMS AND POSSIBLE SHOCK HAZARD [250.24A5].
4. SBJ- SYSTEM BONDING JUMPER, SIZE PER TABLE 250.66 OR 12.5% OF CONDUCTOR SIZE [250.28]. BOND WILL BE AT TRANSFORMER. DO NOT BOND IN SECONDARY PANELS [250.30A].
5. GROUNDING ELECTRODES- ALUMINUM NOT PERMITTED, DO NOT USE GAS PIPING [250.52B]. CONNECTION TO GEC SHALL BE PROTECTED FROM PHYSICAL DAMAGE [250.10], IF AVAILABLE, AT LEAST ONE OF THE PRIMARY GROUNDING ELECTRODE METHODS INDICATED SHALL BE USED [250.50], AS MANY GROUND ELECTRODE TYPES AS POSSIBLE SHALL BE USED.
6. ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS SHALL BE EXOTHERMICALLY WELDED.
7. GROUND ELECTRODE FOR SEPARATELY DERIVED SYSTEMS SHALL BE THE NEAREST METAL WATER PIPE OR STRUCTURAL METAL. IF EITHER IS NOT AVAILABLE PROVIDE SUPPLEMENTARY GROUND ROD [250.30A7].
8. ALL CONNECTIONS NOT ACCESSIBLE [100] SHALL BE EXOTHERMICALLY WELDED [250.68]. ALL SPLICES SHALL BE EXOTHERMICALLY WELDED [250.64C].
9. PROVIDE GROUND WIRE IN ALL CONDUITS.
10. EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT. OTHERWISE OVERCURRENT PROTECTION MIGHT NOT WORK, OR IT MIGHT CAUSE POWER QUALITY PROBLEMS.
11. NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
12. COMPLY WITH ALL APPLICABLE PROVISIONS OF 2005 NEC 250. NUMBERS IN BRACKETS REFER TO SPECIFIC CODE SECTION.
13. RESISTANCE TO EARTH SHALL BE 5 OHMS OR LESS.
14. PROVIDE GROUNDING BUSHING ON BOTH ENDS OF ALL SERVICE ENTRANCE RACEWAYS, SIZE AS GEC [250.80]. THIS INCLUDES RSC ELBOWS ON PVC CONDUIT.
15. ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97]. STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
16. PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148].
17. PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

1 GROUNDING SCHEMATIC DIAGRAM
EO.1 NTS

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ENGINEERS - SURVEYORS
COX AND DINKINS, INC.
724 BELTLINE BLVD.
COLUMBIA, SC 29205
803-254-0518
Fax: 803-765-0993
Email: cdink@coxanddinkins.com
C&D PROJECT# 1537

DWG
CONSULTING ENGINEERS
1100 Anna Krupp Blvd., Suite 202, Mount Pleasant, SC 29566
Phone: 803-335-1100 Fax: 803-335-0700
www.dwg.com

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COLUMBIA, SC 29208

Professional Engineer Seal for David W. Jones, No. 29222, State of South Carolina.

Professional Engineer Seal for Inc. Inc. No. 29529, State of South Carolina.

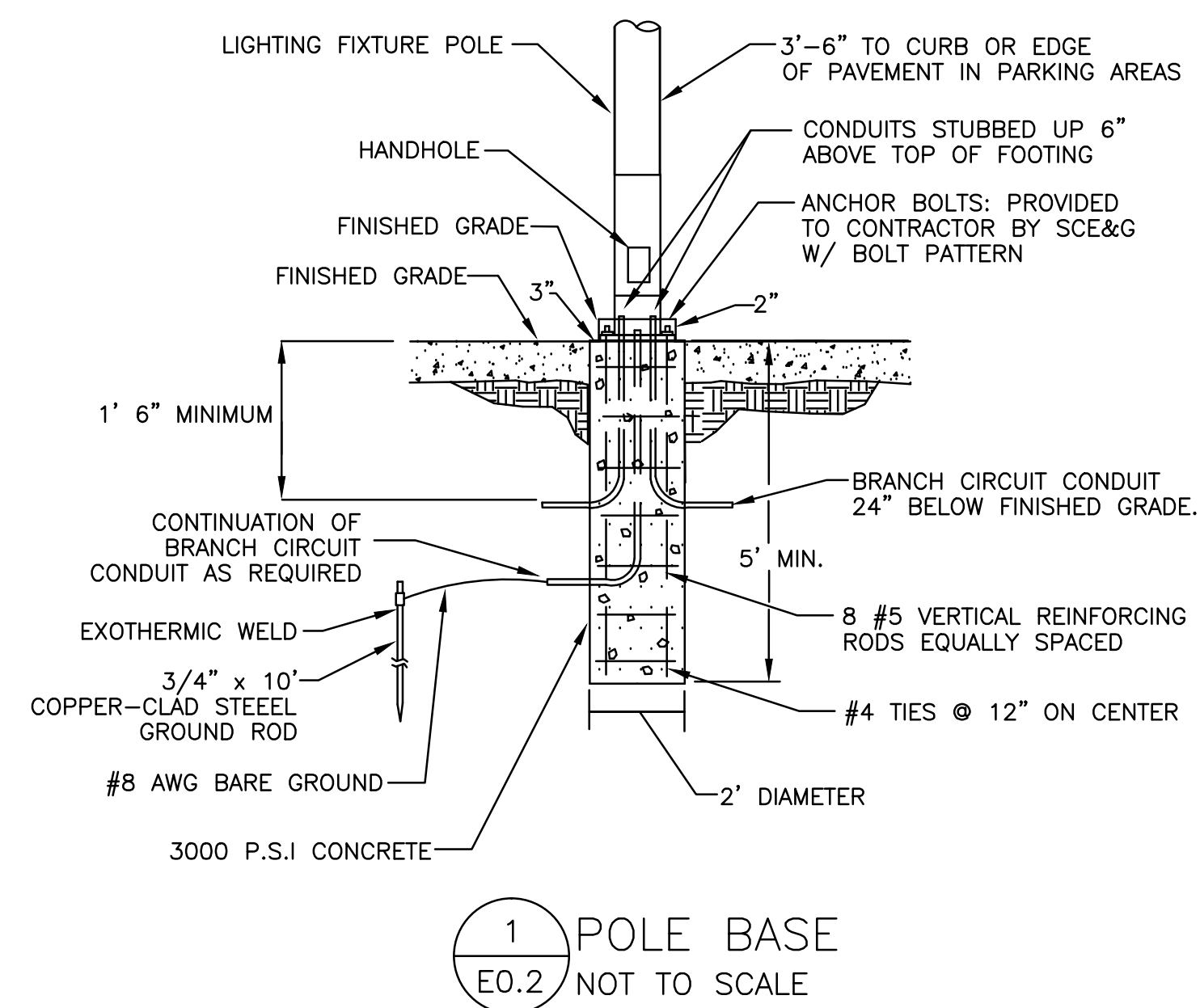
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PROJECT TITLE: GAMECOCK PARK SITE DEVELOPMENT H27 - Z260
LOCATED IN CITY OF COLUMBIA, HIGHLAND COUNTY, SC
University of South Carolina

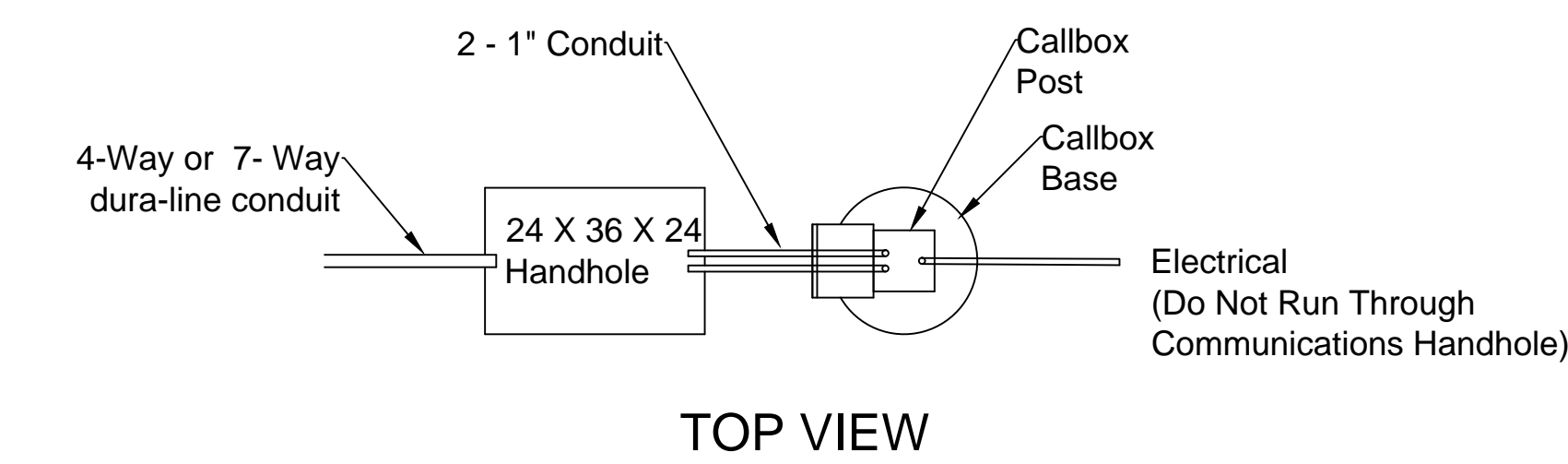
SHEET: ELECTRICAL NOTES & LEGEND EO.1
SHEET IN SET: N/A

ELECTRICAL SERVICE GENERAL NOTES:

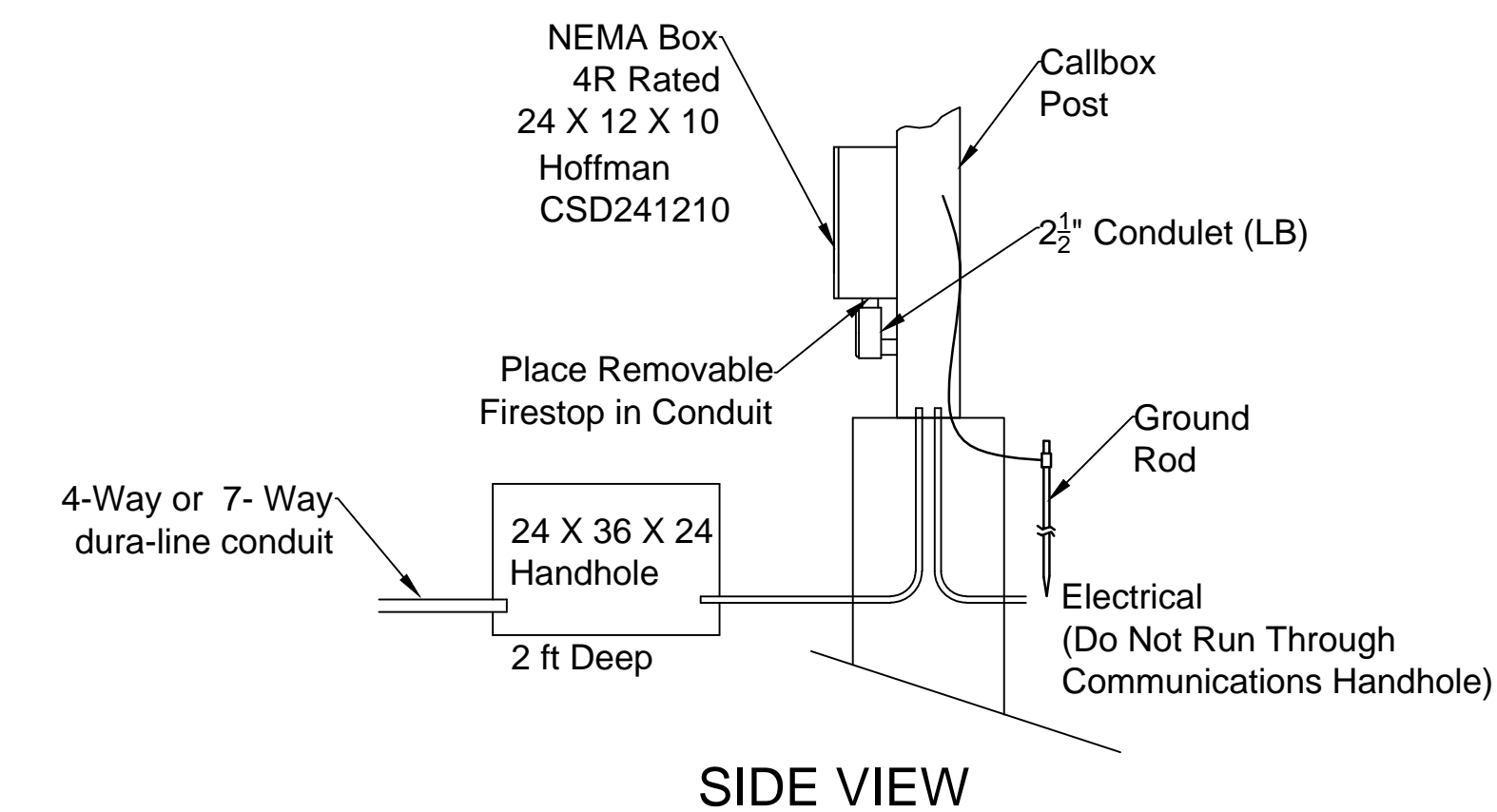
- CONTRACTOR SHALL COORDINATE INSTALLATION OF METER WITH UTILITY COMPANY. CONTRACTOR SHALL INSTALL PER REQUIREMENTS OF UTILITY COMPANY.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS TO MAKE UTILITY CONNECTION IN ACCORDANCE WITH UTILITY COMPANY'S REQUIREMENTS. UTILITY COMPANY SHALL INSPECT WORK PRIOR TO PROVIDING CONNECTION TO UTILITY SERVICE TRANSFORMER.
- SERVICE DISCONNECTS SHALL BE PROPERLY LABELED IN ACCORDANCE WITH UTILITY REQUIREMENTS. UTILITY COMPANY SHALL NOT PROVIDE CONNECTION TO SERVICES WITHOUT PROPER IDENTIFICATION.



1 POLE BASE
E0.2 NOT TO SCALE

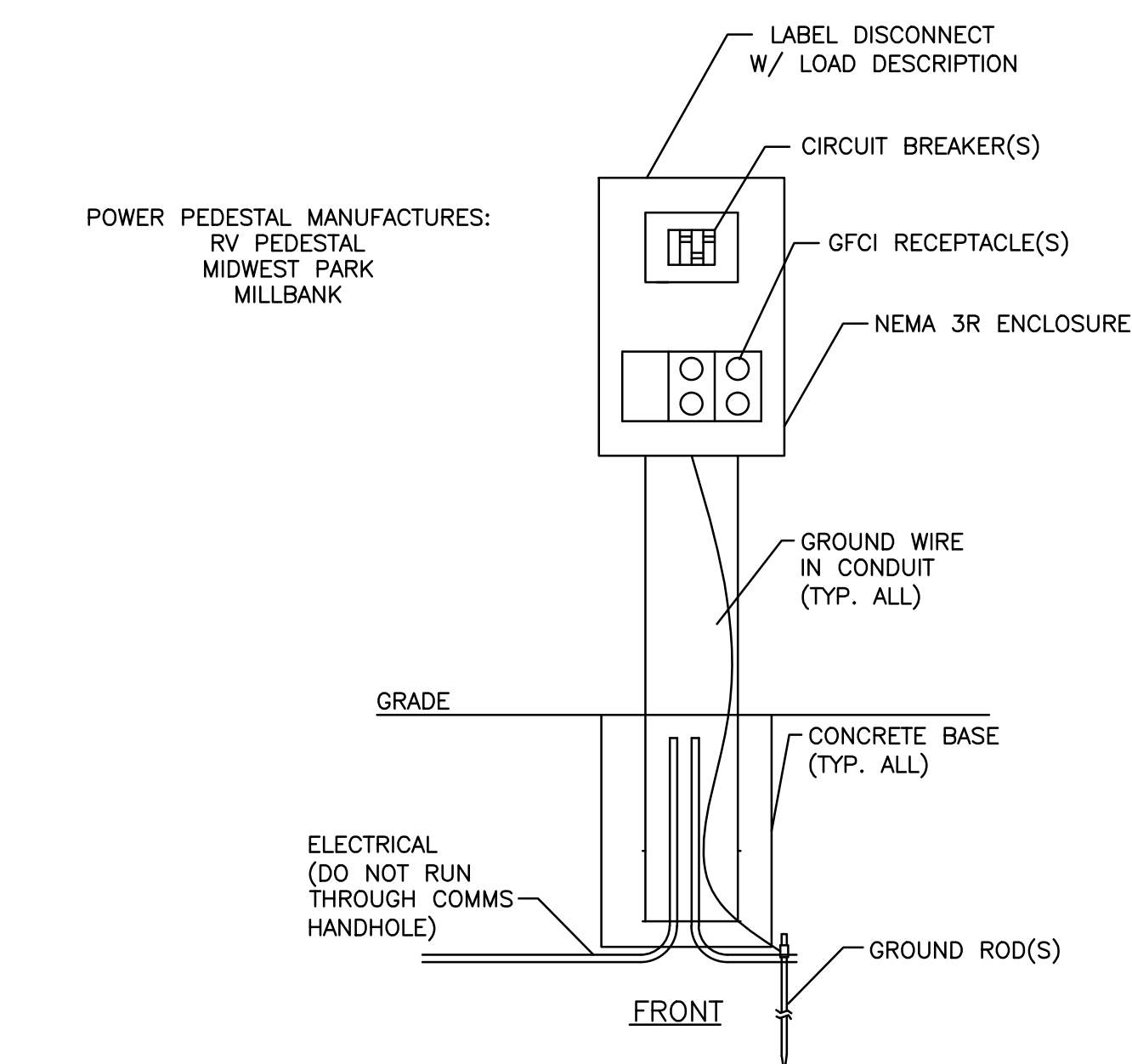


TOP VIEW

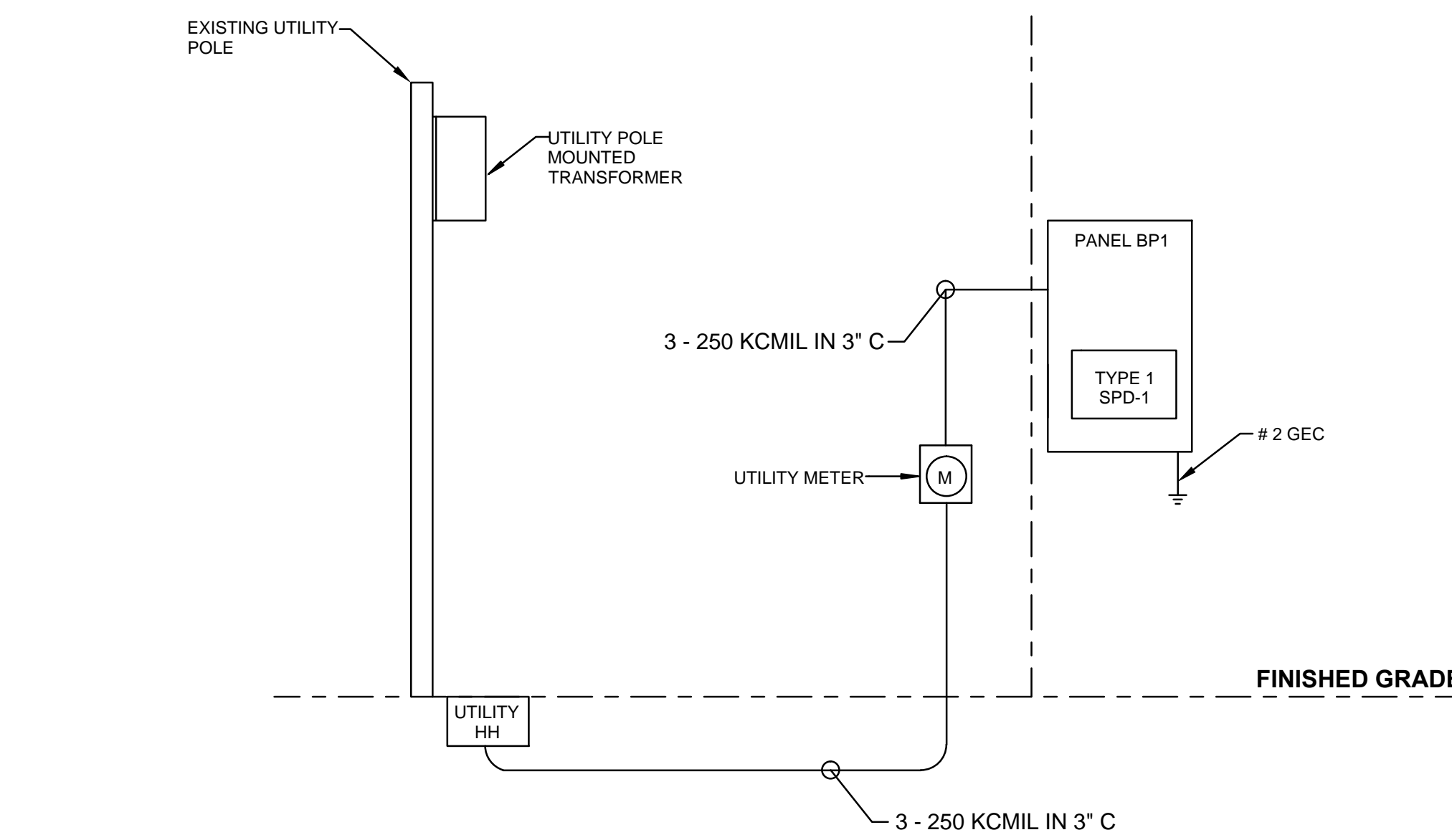


SIDE VIEW

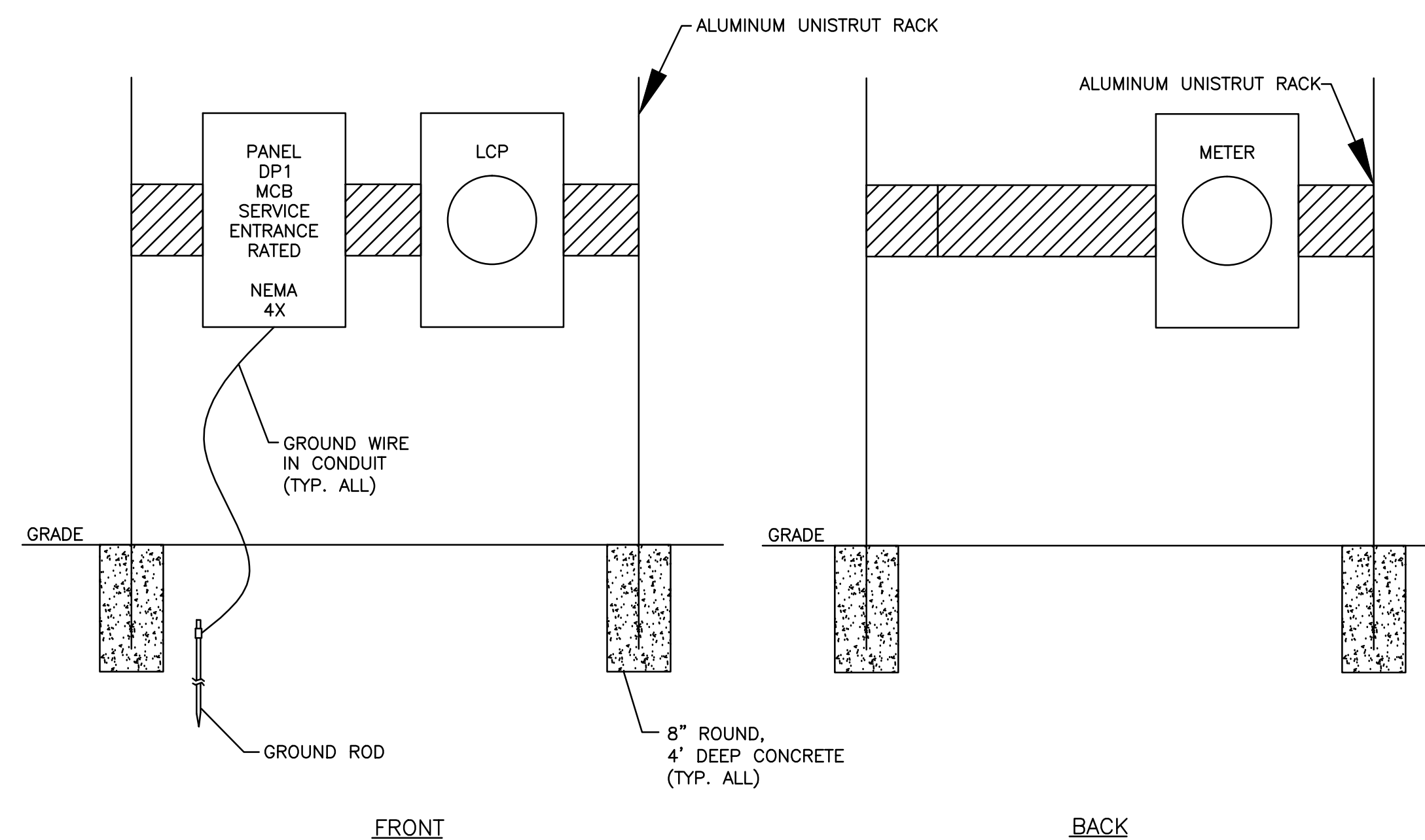
2 TYPICAL CALLBOX INSTALLATION
E0.2 NOT TO SCALE



3 TYPICAL POWER PEDESTAL INSTALLATION
E0.2 NOT TO SCALE



4 ELECTRICAL SERVICE
E0.2 NOT TO SCALE



5 PANELBOARD RACK MOUNTING DETAIL
E0.2 NOT TO SCALE

PEDESTAL NOTES

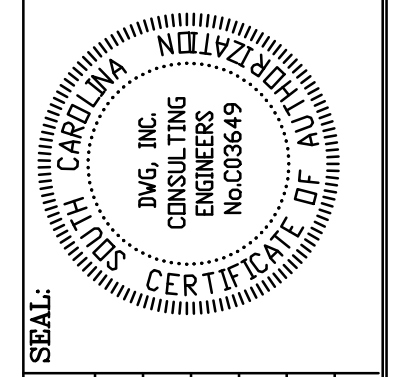
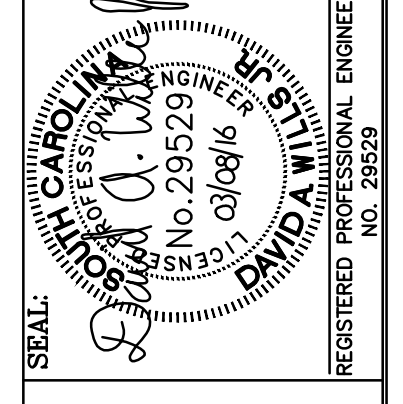
EVERY PARKING SPACE IN LOT SHALL BE PROVIDED W/ (1) DUPLEX 120V, 20A GFCI OUTLET AND (1) CATV OUTLET FOR EACH SPACE MOUNTED ON A PEDESTAL. PEDESTALS SHALL BE CONFIGURED TO SERVE 1 OR 2 SPACES, DEPENDING ON LOCATION. RECEPTACLES SHALL BE CONNECTED TO A 240/120V, 1PH, 3W, 60A CIRCUIT AS INDICATED ON PLANS. THE CIRCUIT SHALL BE TAPPED AT EACH PEDESTAL TO PROVIDE 120V TO A 20A/1-POLE CIRCUIT BREAKER SERVING THE RECEPTACLE. REFER TO DETAIL 1/E0.2. SEE NOTE S4 REGARDING CATV CABLING. PEDESTAL SHALL BE MOUNTED ON 42\"/>

PANELBOARD SCHEDULE									
PANELBOARD 'BP1'		LOCATION BOJANGLE'S PARKING EXTERIOR			VOLTAGE 120/240V 1PH, 4W				
TYPE SURFACE		MAIN 250A MCB			I.C. SYM. 22.000A				
CIR. NO.	CIRCUIT DESIGNATION	CIR. WATTS	PHASE LOAD (VOLT - AMPS)		TRIP/POLES	CIR. WATTS	CIRCUIT DESIGNATION	CIR. NO.	
			Ø A	Ø B					
1	POWER PEDESTAL GROUP 1	11520	60/2	7635	20/1	1500	NEMA HANDHOLES RECEPTACLES	2	
3				11520	60/2	11520	POWER PEDESTAL GROUP 2	4	
5	POWER PEDESTAL GROUP 3	10080	60/2	10080				6	
7				10080	60/2	10080	POWER PEDESTAL GROUP 4	8	
9	SITE LIGHTING EXTERIOR	3750	20/2	6915				10	
11				3375	20/1	1500	SECURITY CALL BOX	12	
13	COMMUNICATIONS QUAD RECEPTACLE	1500	20/1	1600		100	SIGN LIGHTS	14	
15	SPARE				20/1		SPARE	16	
17	SPARE				20/1		SPARE	18	
19	SPARE				20/1		SPARE	20	
TOTAL		26230		24975					
TOTAL CONNECTED LOAD		51.2 KW (212 AMPS)							

LIGHTING FIXTURE SCHEDULE (REFER TO NOTES L4, L5, L6 & L7)						
MARK	MANUFACTURER:	CATALOG NUMBER:	LAMPS		MOUNTING	NOTES
			No.	TYPE		
AA	STERNBERG	FIXTURE: MS805BPT/250MHP240/RO3/FHC/RAL7026 POLE: S214FP5/RAL7026	1	VENTURE MLHW250/H75/ED28/PS/740 DUAL ARC TUBE	LAMPPOST, 14\"/>	
CC	STERNBERG	FIXTURE: 2-MS805BPT/250MHP240/RO3/FHC/RAL7026 POLE: S214FP5/RAL7026 POST ARM: TAPT/RAL7026	2	VENTURE MLHW250/H75/ED28/PS/740 DUAL ARC TUBE	LAMPPOST, 14\"/>	
S	LITHONIA	FIXTURE: DSXF1 LED-2-A530/40K MFL-120-THK-DBLXD	1	LED	ON-GRADE GROUND MOUNTED	REFER TO NOTES 5 BELOW

- NOTE 1: REGARDLESS OF CATALOG NUMBER, ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.
NOTE 2: PROVIDE CONCRETE BASE FOR POLE, FLUSH WITH PAVEMENT, OR 2\"/>

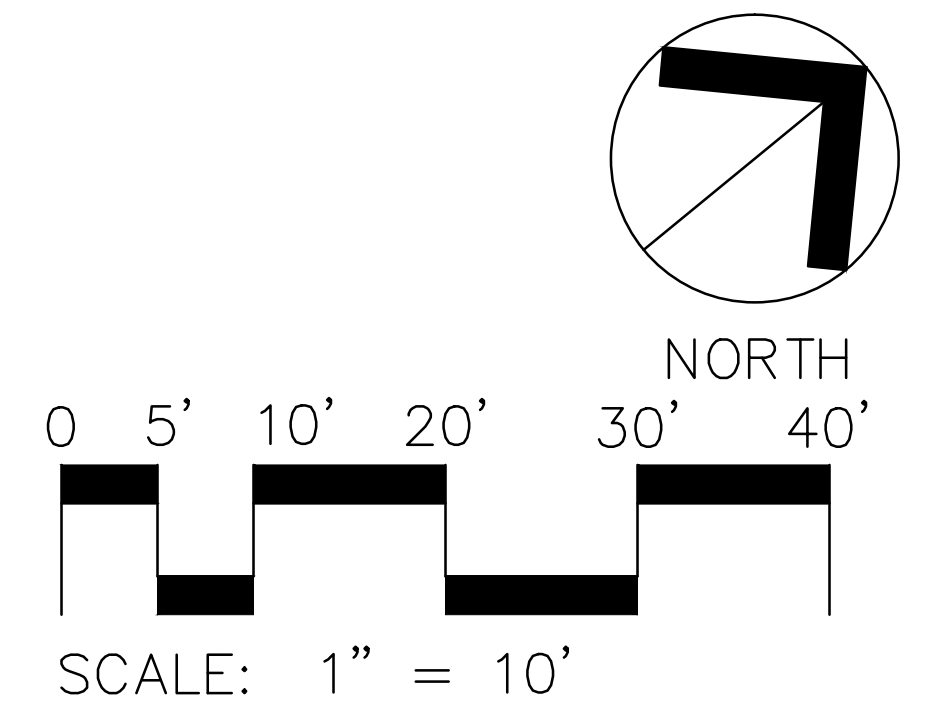
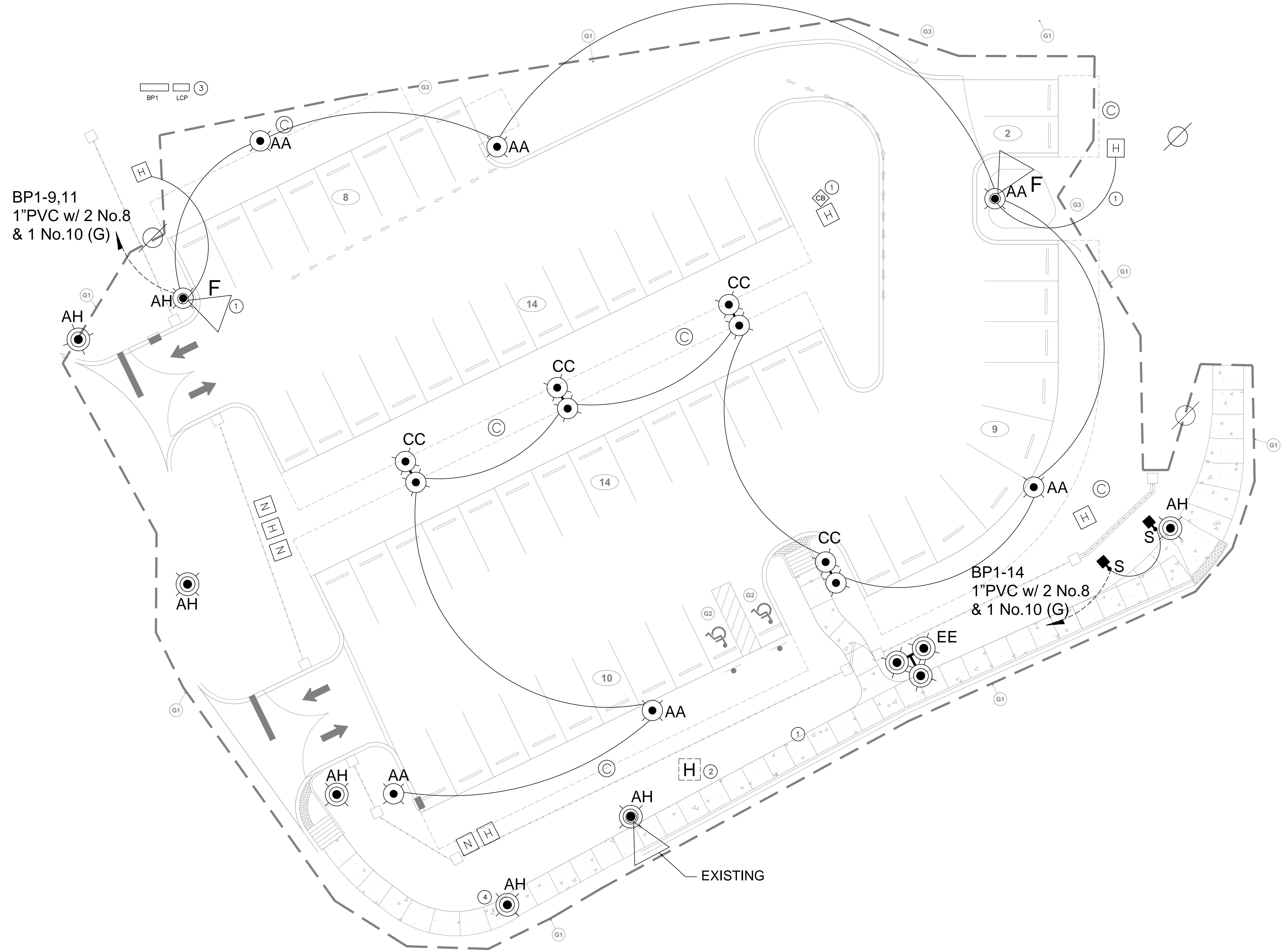
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DESCRIPTION:		
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BUILDING:		
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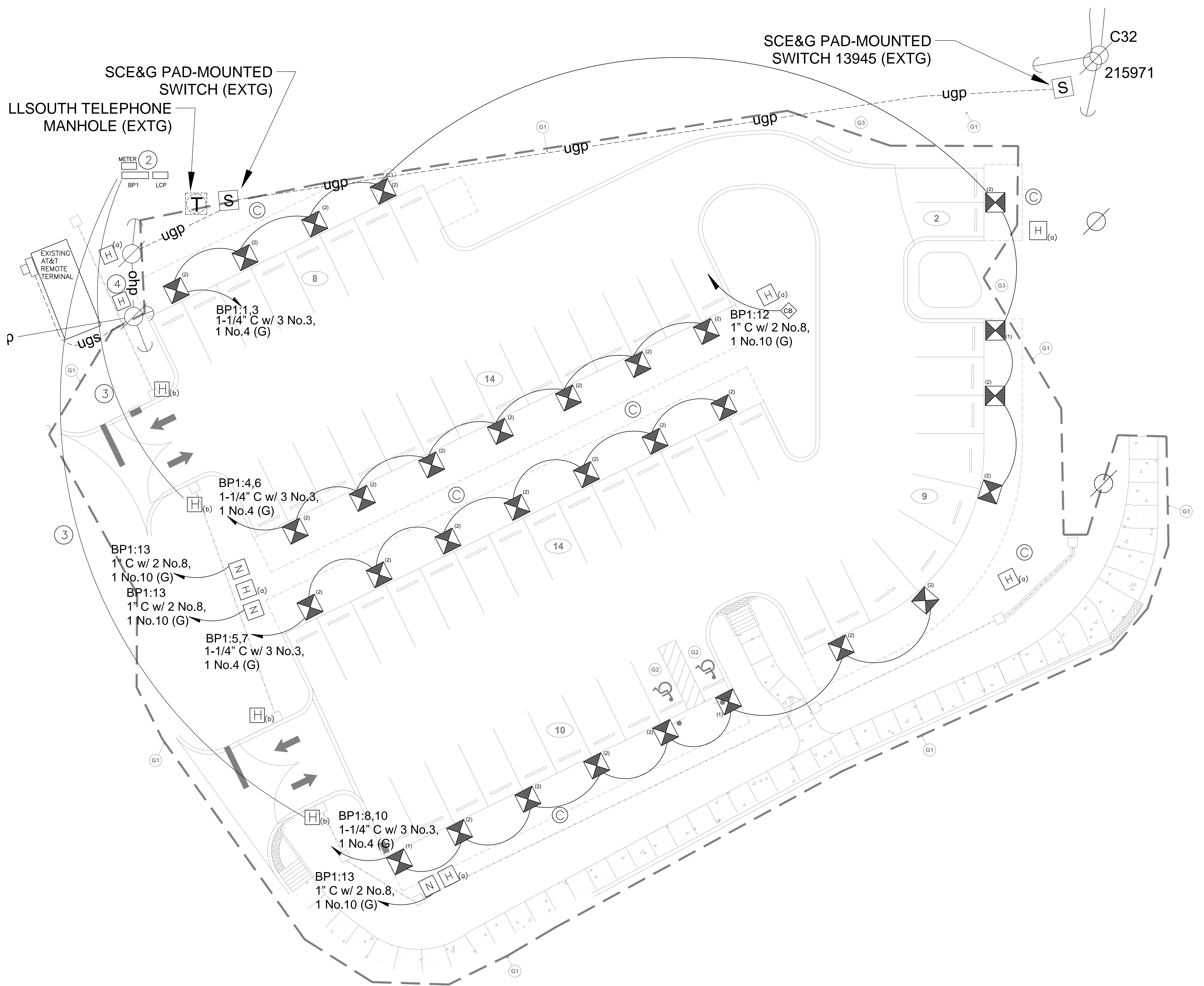
KEY NOTES	
1	PROVIDE 1" INNERDUCT WITH PULL STRING FOR SIGNAL CABLE FROM SECURITY DEVICE TO HANDHOLE.
2	EXISTING HANDHOLE TO BE UPSIZED TO 24"x36"x24".
3	PROVIDE WATTSTOPPER 8-RELAY LIGHTING CONTROL PANEL. INTEGRATE INTO EXISTING WATTSTOPPER PARKING LOT LIGHTING CONTROL SYSTEM VIA ETHERNET CONNECTION. CONTROL SHALL BE DUAL-LEVEL SWITCHING IN SCHEDULE DETERMINED BY CAMPUS SYSTEM. COORDINATE CONTROLS ROUGH IN REQUIREMENTS WITH WATTSTOPPER. FOR PURPOSES OF BIDDING, ASSUME 1" CONTROL CONDUIT TO EACH LIGHT POLE.
4	COORDINATE INSTALLATION OF SIDE WALK WITH EXISTING LIGHT POLE. SHIFT LIGHT POLE AS NECESSARY TO ACCOMMODATE SIDEWALK.
5	PROVIDE POWER FOR SIGN LIGHTS. PROVIDE CIRCUIT THROUGH LCP FOR CONTROL. CONTROL SHALL BE BY PHOTOCELL (ON/OFF).

DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY
3/08/2016		DKH			
		DKH			
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		DKH			
		DKH			
		DKH			

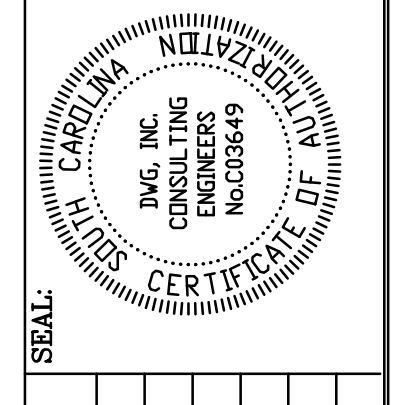
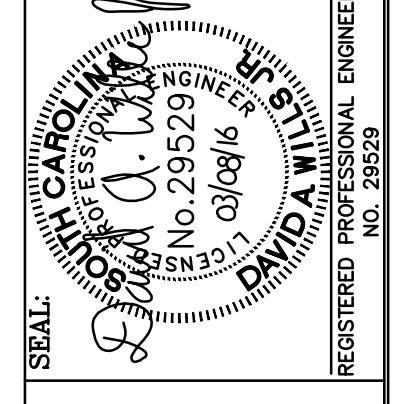
PROJECT TITLE:	GAMECOCK PARK SITE DEVELOPMENT H27 - Z260
LOCATED IN:	CITY OF COLUMBIA, RICHLAND COUNTY, SC
SHEET:	SITE LIGHTING & SECURITY PLAN E1.1
SHEET IN SET:	N/A



1 LIGHTING AND SECURITY PLAN
E1.1 SCALE: 1" = 10'-0"

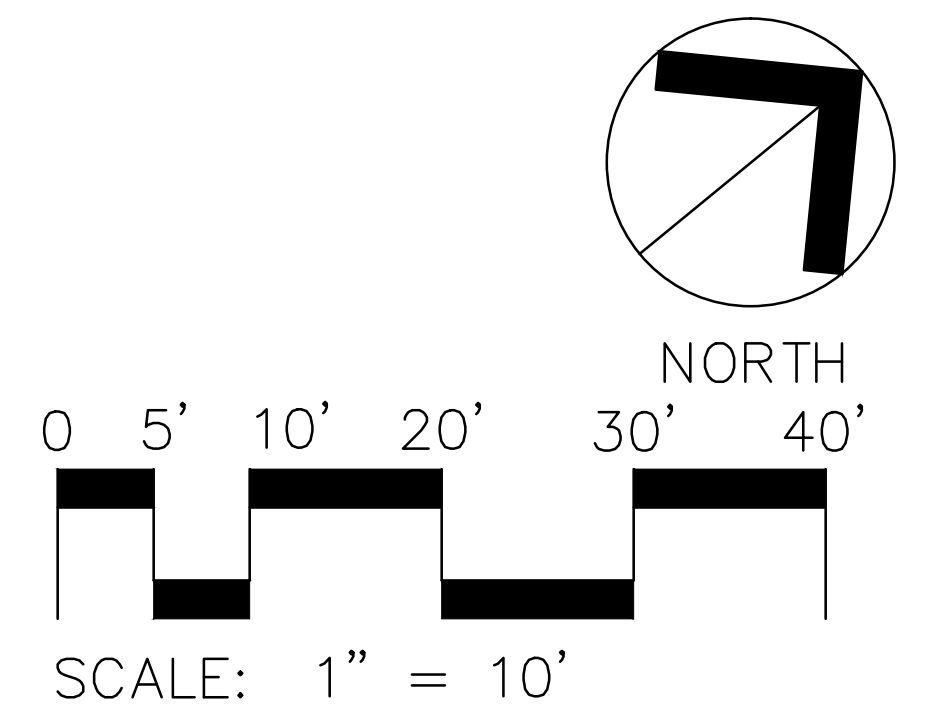


- GENERAL NOTES**
- 1 SEE SHEET E1.1. FOR COMMUNICATIONS CONDUIT SCOPE.
 - 2 PROVIDE HEAVY DUTY ALUMINUM UNISTRUT SUPPORT STRUCTURE FOR PANEL BP1 AND LCP.
 - 3 PROVIDE EMPTY 1" CONDUIT FROM HANDHOLE TO PANEL BP1 FOR FUTURE USE.
 - 4 SCE&G INSTALLED HANDHOLE FOR POWER.



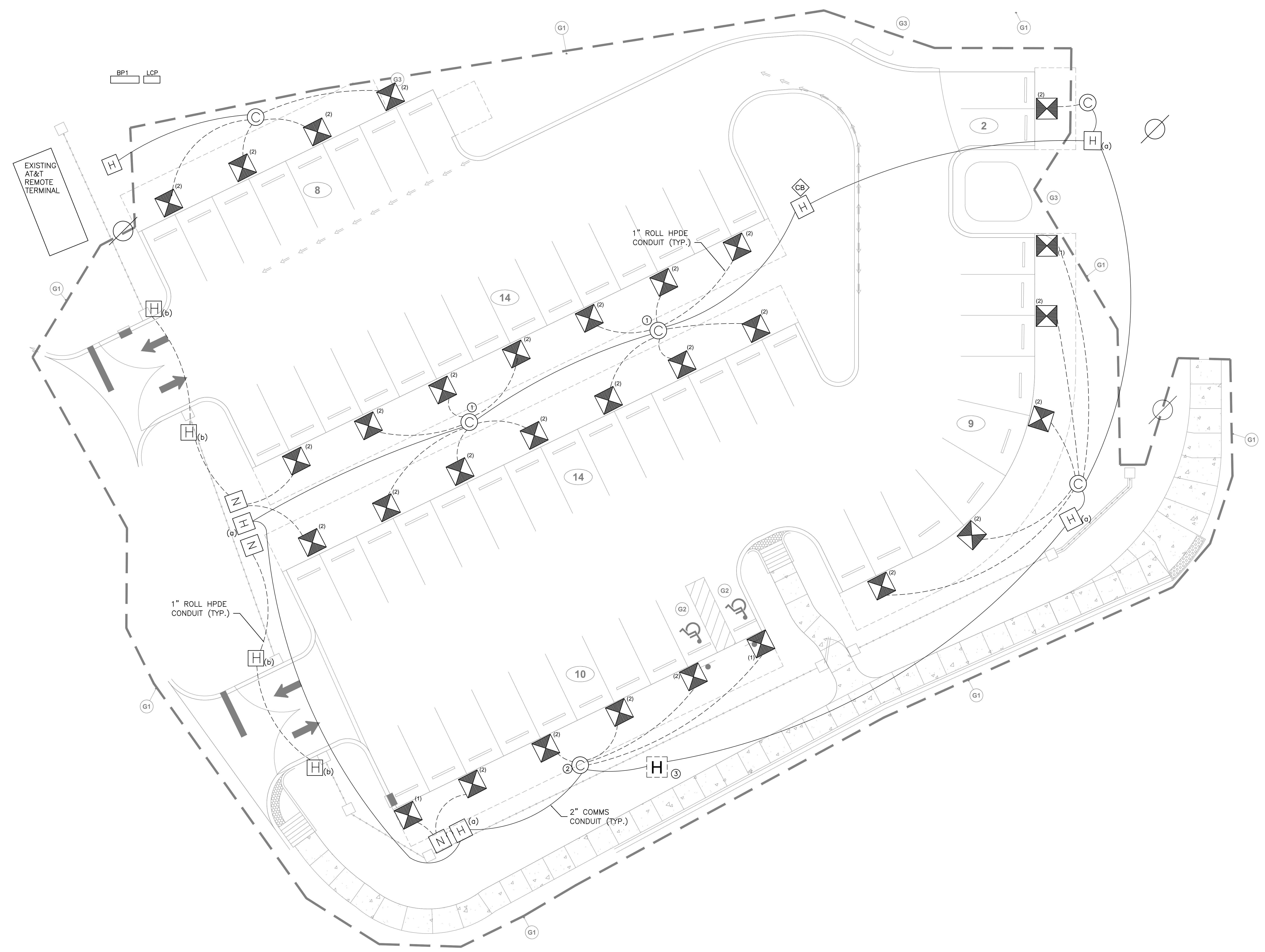
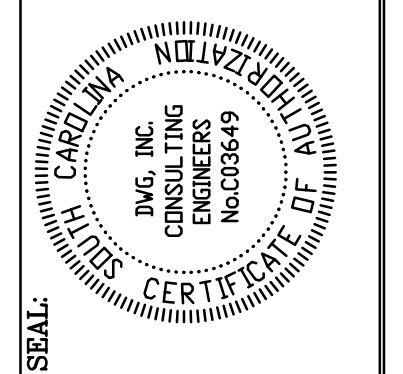
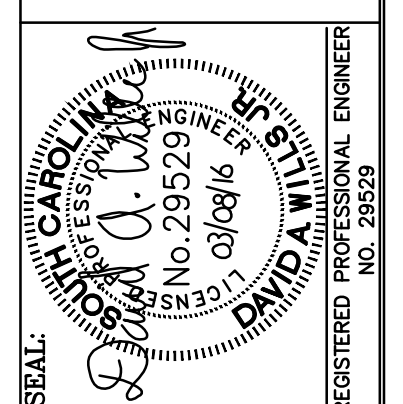
BUILDING:	DRAWING:	DATE:	SBD:	DATE:	CHECKED BY:	DATE:	DRAWN BY:	DATE:
N/A		3/08/2016			DKH			
					ORIG. BY:			
					DATE:			

PROJECT TITLE:	GAMECOCK PARK SITE DEVELOPMENT
SHEET:	SITE POWER PLAN
	E2.1
SHEET IN SET:	N/A



1 SITE POWER PLAN
E2.1 SCALE: 1" = 10'-0"

- GENERAL NOTES
- 1 LOCATE ABOVE GROUND CATV PEDESTAL ADJACENT TO LIGHTPOLE
 - 2 REFER TO DETAIL 3, SHEET EQ.2 FOR TYPICAL DEVICE DETAIL.
 - 3 EXISTING HANDHOLE TO BE USED FOR INCOMING COMMUNICATIONS SERVICE.



DATE	DESCRIPTION	BY	DATE	BY
3/08/2016		DKH		
		ORIG. BY		
		CHECKED BY:		
		SECD		
		DATE		
		DRAWN BY:		
		DATE		
		DATE		
		DATE		

PROJECT TITLE: GAMECOCK PARK SITE DEVELOPMENT
H27-Z260
LOCATED IN CITY OF COLUMBIA, RICHLAND COUNTY, SC

University of South Carolina

1 SITE CABLE AND DATA PLAN
E3.1 SCALE: 1" = 10'-0"