



CITY OF COLUMBIA
AGENDA MEMORANDUM

MEETING DATE: June 7, 2016

DEPARTMENT: Legal

FROM: *Shari Ardis, Legal Administrator*

SUBJECT: **ORDINANCE NO. : 2016-028 Granting an encroachment to the University of South Carolina for the use of the right of way areas of the 600 and 700 blocks of Park Street for installation and maintenance of bollards, parking spaces, accessible ramp with handrails, irrigation, curbing, gutters and sidewalks adjacent to the Carolina Coliseum at 701 Assembly Street, Richland County TMS #08915-08-01**

FINANCIAL IMPACT:

ATTACHMENTS:

- 2016-028 encroach USC Coliseum (Park St area) (PDF)

ORDINANCE NO. : 2016-028

Granting an encroachment to the University of South Carolina for the use of the right of way areas of the 600 and 700 blocks of Park Street for installation and maintenance of bollards, parking spaces, accessible ramp with handrails, irrigation, curbing, gutters and sidewalks adjacent to the Carolina Coliseum at 701 Assembly Street, Richland County TMS #08915-08-01

WHEREAS, the University of South Carolina (hereinafter "Grantee") desires to use a portion of the right of way areas of the 600 and 700 blocks of Park Street for installation and maintenance of an accessible ramp with handrails approximately five (5') feet in width and fourteen (14") feet in length; six (6) parking spaces; concrete sidewalk varying in width from approximately twelve (12') feet at its foremost point and five (5') feet and approximately twenty-four (24') feet in length, curb and gutter measuring approximately fifty (50') feet in length and two feet six inches (2'6") in width, and landscaping and irrigation system; as shown on the attached drawings; and,

WHEREAS, it appears that the encroachment will not interfere with the use of the medians or street for traffic, utility locations or other uses within the foreseeable future; NOW, THEREFORE,

BE IT ORDAINED by the Mayor and City Council of the City of Columbia, South Carolina, this ___ day of _____, 2016, that Grantee is hereby granted the right to use the right of way areas of the 600 and 700 blocks of Park Street for installation and maintenance of an accessible ramp with handrails approximately five (5') feet in width and fourteen (14") feet in length; six (6) parking spaces; concrete sidewalk varying in width from approximately twelve (12') feet at its foremost point and five (5') feet and approximately twenty-four (24') feet in length, curb and gutter measuring approximately fifty (50') feet in length and two feet six inches (2'6") in width, and landscaping and irrigation system; as shown on the attached drawings.

ALL WORK SHALL COMPLY with the requirements of The City of Columbia, South Carolina Department of Transportation and Federal Emergency Management Agency (FEMA) now in existence or hereafter enacted. The materials and type of finish to be used are to be approved by the City Engineer prior to installation. Any damage to the street or sidewalk caused by construction shall be repaired to the satisfaction of the City Manager. Improvements within the encroachment shall be maintained by the grantee at no cost to the City in a manner approved by the City Manager.

PROVIDED FURTHER that the privilege granted hereby is subject to the Grantee complying with the following conditions, restrictions or limitations:

1. No item, including landscaping, shall be placed, planted or allowed to grow such that it creates a visual impediment to persons safely entering or exiting driveways or parking spaces, or to persons safely walking along the sidewalk. The City reserves the right to remove or cut any item located within the right of way which it deems to be a safety hazard.
2. Irrigation must be designed to avoid spraying walkways, sidewalks and streets and/or creating hazardous conditions upon the walkways, sidewalks and streets.
3. All trees shall be protected and no large tree roots shall be removed from any existing trees, nor shall trees be located too close to streetlights.
4. Grantee is responsible for all maintenance of items approved by this ordinance for placement within the right of way area and assuring that all accessibility and ADA requirements are met and maintained.

5. Grantee is to coordinate existing and proposed crosswalks, ramps and curb cuts to insure proper alignment.

PROVIDED FURTHER that the privilege granted hereby may be modified or terminated by Columbia City Council at any time without notice to the Grantee, its successors and assigns.

BE IT FURTHER ORDAINED that Grantee, in consideration of the above privilege, shall at its expense provide for protection and relocation of all utilities that might be within this area to the satisfaction of the City Manager.

Requested by:

Assistant City Manager Gentry

Mayor

Approved by:

City Manager

Approved as to form:

ATTEST:

James Lisowski

Senior Assistant City Attorney

City Clerk

Introduced:

Final Reading:

**CITY COUNCIL
ENCROACHMENT SUMMARY
2016-028**



**701 ASSEMBLY STREET
700 AND 600 BLOCK OF PARK STREET
UNIVERSITY OF SOUTH CAROLINA**

CAROLINA COLISEUM PARK STREET IMPROVEMENTS

Subject Property:	701 Assembly Street, TMS#08915-08-01
Council District:	2
Proposal:	Request approval for the installation and maintenance of bollards, parking spaces, accessible ramp with handrails, irrigation, curb and gutter and sidewalks, as shown on the attached drawing.
Applicant:	University of South Carolina
Staff Recommendation:	Approval.
Conditions:	<ol style="list-style-type: none"> 1. Irrigation must be designed to avoid spraying walkways, sidewalks and streets and/or creating hazardous conditions upon the walkways, sidewalks and streets; 2. All trees shall be protected; 3. Grantee is responsible for all maintenance and assuring that all accessibility and ADA requirements are met and maintained; 4. Grantee is to coordinate existing and proposed crosswalks, ramps and curb cuts to insure proper alignment.

Detail:	The applicant is requesting an encroachment ordinance to installation and maintenance of an accessible ramp with handrails measuring approximately five (5') feet in width and fourteen (14') feet in length, six (6) parking spaces each measuring approximately ten (10') feet in width and sixteen (16') feet in length, concrete sidewalk varying in width between approximately twelve (12') feet at its foremost point and five (5') feet and approximately twenty-four (24') feet in length, curb and gutter measuring approximately fifty (50') feet in length and two feet six inches (2' 6") in width, and landscaping and irrigation system, all as shown on the attached drawings.
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CITY AGENCY COMMENTS FOR ENCROACHMENT

Planning & Development	Recommend approval.
Streets	Recommend approval.
Utilities & Engineering	Recommend approval.
Traffic Engineering	Recommend approval.
Fire Department	Recommend approval.
Forestry	Recommend approval.
Land Development	Recommend approval.

**REQUEST FOR A PERMANENT COMMERCIAL ENCROACHMENT ORDINANCE
(INCLUDING OUTDOOR DINING/LANDSCAPING/STUDENT HOUSING)**

For a continuing encroachment on any type of property in which the City has an interest (i.e., rights of way, tree zone, sidewalk, streets), the person or entity is required to have an encroachment ordinance enacted by City Council permitting the encroachment. Encroachment ordinances are required for but not limited to: irrigation systems; landscaping; fencing; walls; pavers; walkways; outdoor dining items (chairs, tables, umbrellas, etc.); awnings; bollards and directional signs (i.e., churches) Business signs are NOT permitted via an encroachment. Encroachments must comply with all existing City codes, rules and regulations, the Americans with Disabilities Act, if applicable, and are subject to review and approval by City staff. Enactment of the encroachment ordinance by a majority vote of City Council, which is a discretionary legislative act, is also required. ~~In order to obtain an encroachment ordinance from the City of Columbia, it will be necessary for the City of Columbia to be named as an additional insured on your insurance policy with limits being increased to \$600,000 as required by Sec. 11-71. It is recommended that you contact your insurance provider to determine if it will name the City of Columbia as an additional insured prior to submitting your request for an encroachment ordinance. If you have any questions concerning these requirements, please contact Chip Timmons with Risk Management, (803) 733-8306 or catimmons@columbiasc.net.~~

Please complete and submit this form along with photographs and drawings or site plan drawn to scale (including a 8-1/2 x11) to Johnathan Chambers by e-mail at jechambers@columbiasc.net; fax at 803-343-8779; or mail to Johnathan Chambers, Development Services, POB 147 Columbia, SC 29217, for preparation of an encroachment ordinance. Copies to City departments should be directed to the contact person for that department as shown below.

All work shall comply with the requirements of the City of Columbia and South Carolina Department of Transportation now in existence or hereafter enacted. The materials and type of finish to be used are to be approved by the City Engineer prior to installation. Any damage to the street or sidewalk caused by construction shall be repaired to the satisfaction of the City Manager. Improvements within the encroachment shall be maintained by the grantee at no cost to the City in a manner approved by the City Manager. Property owned, operated and maintained by SCDOT shall comply with SCDOT encroachment requirements.

Date: Jan 26, 2016 Property Owner: University of South Carolina
 Applicant's Name if different from Property Owner: Ann Derrick
 Contact Information: Telephone Number: 777-5811 Fax Number: _____
 Mailing address: 743 Greene Street Columbia SC 29208 E-mail address: aderrick@fmc.sc.edu

Business Name/Development Name for Encroachment: _____
 Encroachment type: Wall Fence Columns Steps Irrigation System Landscaping Driveway Pavers Sidewalk/Walkway
 Planters Awning Underground Utilities Other: _____

Dimensions (height/width/length): See attached site plan for dimensions
 (i.e. 6'x42' wooden privacy fence;
 two 12'x4'x3' concrete steps)

Construction material: Concrete

OUTDOOR DINING: The Fire Marshal's posted capacity allowed within the business at the time of enactment of the outdoor dining encroachment ordinance shall include the total number of patron seating approved for the outdoor dining encroachment area, if not already included in the posted capacity allowance, so that patrons relocating from inside to the outside or from outside to the inside do not cause the posted capacity to be exceeded.

Hours/days of operation for outdoor dining: _____
 Posted Maximum Capacity Allowance (inside/outside combined): _____ No. of chairs outdoors: _____ No. of Tables Outdoors: _____
 Do you serve: Wine Beer Liquor SCDOR ABL No.: _____ If not, do you intend to apply for an ABL license? _____

I acknowledge that the adjoining property owners and businesses have been contacted and approve the addition of outdoor dining at this location to include the service of beer, wine and/or liquor if applicable during the business hours noted above, and that any changes made to the business hours, use of the encroachment area or items allowed within the encroachment area will require an amendment to the encroachment ordinance.

Name/Title: _____
 Date: _____

I acknowledge that any changes made to the business, hours, use of the encroachment area, or items allowed within the encroachment area, to include obtaining a license to sell beer, wine and/or liquor will require an amendment to the encroachment ordinance.

Amy E. Stone
 Name/Title: AMY E. STONE
 Date: 3-16
SECRETARY, UNIVERSITY OF S.C.

The proposed ordinance will be sent to the requesting party and City offices for review and approval. Johnathan Chambers will compile the recommendations and forward them to the City Clerk for scheduling before City Council. This process may take from 30-90 days.

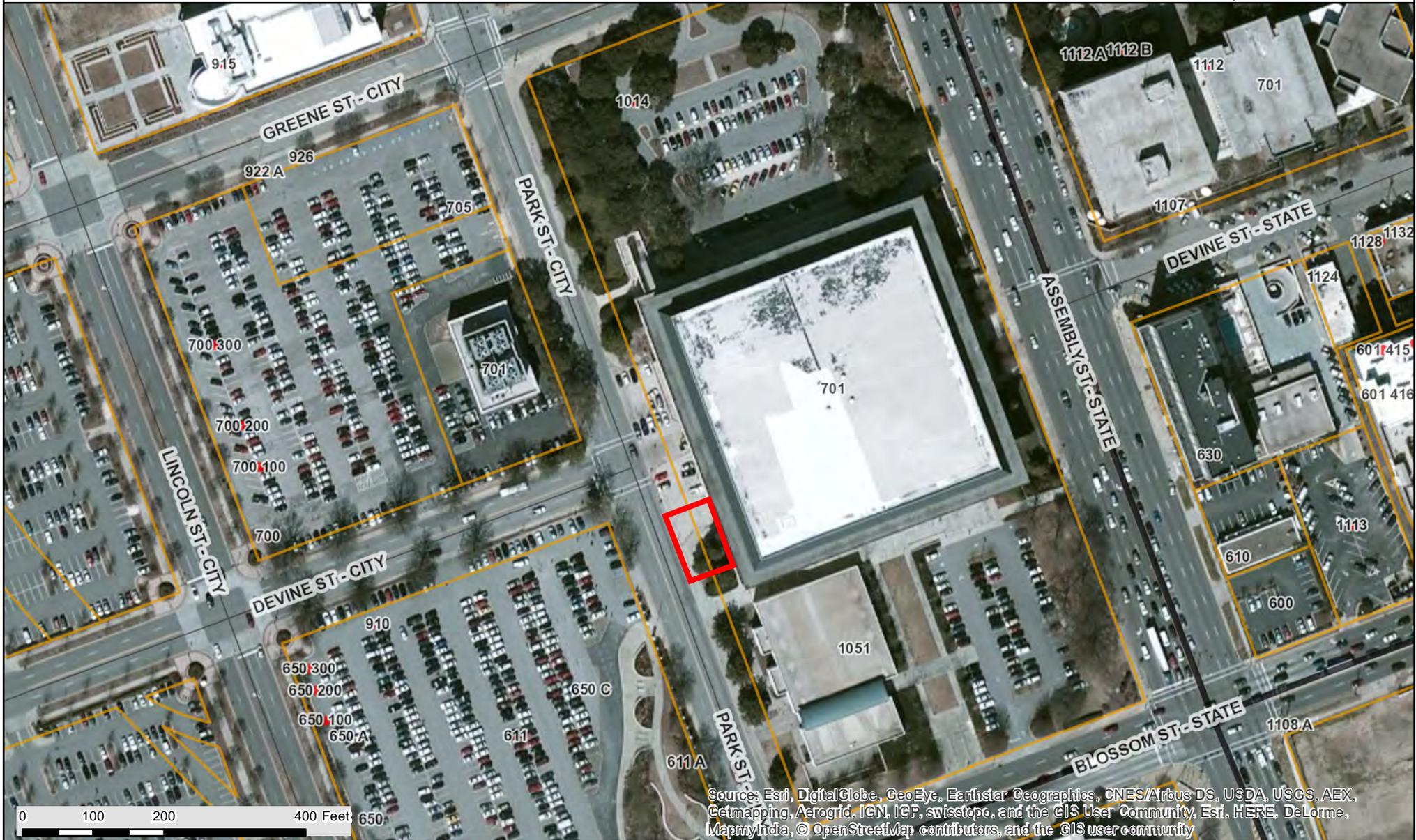
CONTACT	DEPARTMENT	PHONE	FAX	E-MAIL
Johnathan Chambers	Development Services (Land Development)	803-545-3333	803-343-8779	jechambers@columbiasc.net
John Fellows	Development Services (Planning)	803-545-3222	803-733-8647	jsfellows@columbiasc.net
Brian Cook	Development Services (Zoning)	803-545-3332	803-733-8647	kbcook@columbiasc.net
Jerry Thompson	Development Services (Building Inspections)	803-545-3420	803-733-8699	jthompson@columbiasc.net
Fanessa Pinckney	Development Services (Permits)	803-545-3420	803-733-8699	fcpinckney@columbiasc.net
Amy Moore	Development Services (Historic Preservation)	803-545-3222	803-733-8647	aemoore@columbiasc.net
Robert Harkins	Development Services (Plans Review)	803-545-3420	803-733-8647	rlharkins@columbiasc.net
Denny Daniels	Utilities & Engineering (Construction Management)	803-545-3400	803-988-8199	jddaniels@columbiasc.net
Robert Anderson	Public Works (Administration)	803-545-3780	803-733-8648	raanderson@columbiasc.net
Robert Sweat	Public Works (Street Division)	803-545-3790	803-545-3785	rgsweatt@columbiasc.net
David Brewer	Public Works (Traffic Engineering)	803-545-3850	803-733-8648	ddbrewer@columbiasc.net
Sara Hollar	Public Works (Forestry & Beautification)	803-545-3860	803-733-8648	sehollar@columbiasc.net
John Hooks	Public Works (Solid Waste)	803-545-3800	803-733-8648	jphooks@columbiasc.net
Chip Timmons	Risk Management	803-733-8306	803-733-8245	catimmons@columbiasc.net
David Koon	Fire Department	803-545-3701	803-401-8839	cfdkoon@columbiasc.net
John David Spade	Parking Services	803-545-3070	803-733-8523	spade@columbiasc.net

City of Columbia

Carolina Coliseum Park Street Encroachment



Thursday, March 17, 2016



CITY OF COLUMBIA GIS DATA DISCLAIMER

The City of Columbia GIS data represented on this map or plan is the product of compilation, as produced by others. It is provided for informational purposes only and the City of Columbia makes no representation as to its accuracy. Its use without field verification is at the sole risk of the user.





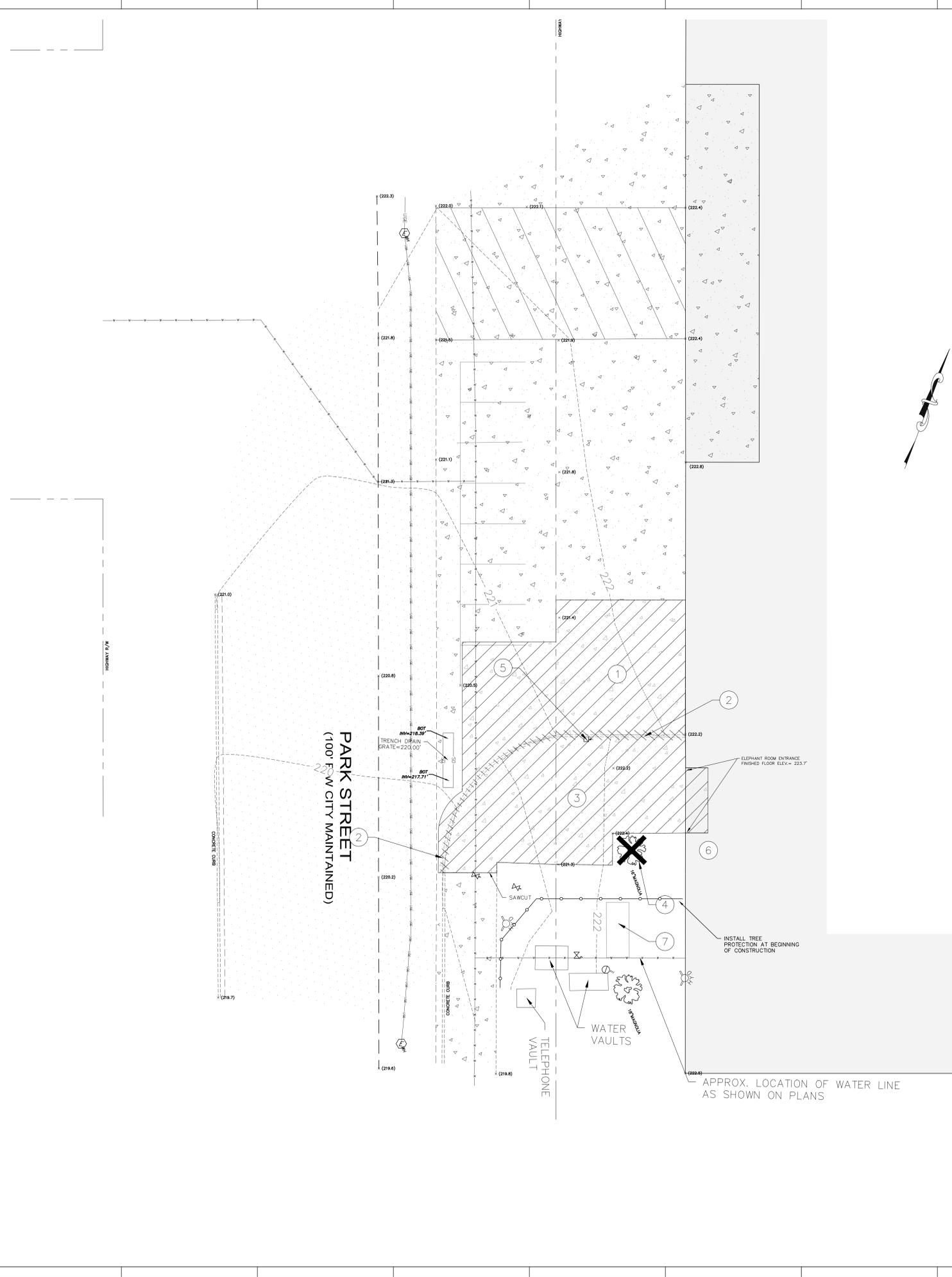
©2015 Google

©2015 Google

ELEPHANT ROOM
GRADUATE S
ONLY

Park St

Park St



DEMOLITION NOTES

- 1) 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.
- 2) PRIOR TO COMMENCEMENT OF TREE REMOVAL THE CONTRACTOR SHALL WALK THE SITE WITH THE OWNER AND/OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND/OR VEGETATION TO REMAIN. PROTECTION OF IDENTIFIED TREES AND/OR VEGETATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3) THERE SHALL BE NO BURNING ON SITE.
- 4) EXISTING IMPROVEMENTS SO NOTED, ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF ACCORDING TO APPLICABLE REGULATIONS.
- 5) 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.
- 6) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SERVICES WHICH ARE INDICATED TO BE EXTENDED OR OTHERWISE REUSED.
- 7) 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.
- 8) 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.
- 9) EROSION AND SEDIMENT CONTROL DEVICES MUST BE IN PLACE PRIOR TO DEMOLITION.
- 10) IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.
- 11) DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPLICABLE DEMO AND DISPOSAL PERMITS.
- 12) CONTRACTOR SHALL GRADE DEMOLISHED AREAS TO DRAIN (PIPES, PARKING, ETC.)

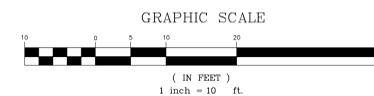
LEGEND		
DEMOLITION	EXISTING	DESCRIPTION
N/A	+	BENCHMARK/CONTROL POINT
N/A	- - -	PROPERTY LINE/RIGHT OF WAY
N/A	⊙	LIGHT POLE
N/A	⊗	TREE
▨	▨	BITUMINOUS SURFACE
▧	▧	CONCRETE SURFACE
N/A	~	CONTOUR
N/A	x (309.50)	SPOT ELEVATION
N/A	x	CHAIN LINK FENCE
N/A	W	WATER VALVE
N/A	8	WATER METER
N/A	⊗	UNDERGROUND ELECTRIC LINE
N/A	⊗	W/LIGHT POLE
N/A	⊗	SANITARY SEWER LINE w/ MANHOLE
N/A	⊗	SANITARY SEWER CLEANOUT
N/A	⊗	STORM DRAIN LINE w/ STRUCTURE
①	N/A	KEY NOTE REFERENCE

KEY NOTES

- 1 SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT ALONG EXISTING JOINT
- 2 REMOVE EXISTING CURB AND GUTTER
- 3 REMOVE EXISTING CONCRETE SIDEWALK
- 4 REMOVE EXISTING MAGNOLIA TREE
- 5 REMOVE METER BOX AND RESET AT NEW GRADES
- 6 SEE ARCH PLANS FOR BUILDING DEMO SCOPE
- 7 EXISTING CHILLER, PAD, PIPING, ETC. TO BE REMOVED COMPLETE - SEE MECHANICAL

GENERAL NOTES

1. TOPOGRAPHIC SURVEY WAS COMPLETED BY AECOM ON NOVEMBER 2015. NO BOUNDARY OR TOPOGRAPHIC SURVEY WAS PERFORMED BY R.B. TODD CONSULTING ENGINEERS.
2. OWNER: USC FACILITIES
743 GREENE STREET
COLUMBIA SC 29208
PHONE NUMBER: 803-777-5500
TMS: 08915-08-01
ZONING: C-1
DEVELOPMENT ADDRESS: 701 ASSEMBLY STREET
TOTAL ACREAGE: 9.1 ACRES
DISTURBED AREA: 3700 SF
3. ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 45079C0094H, DATED FEB 20, 2002, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X".
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.
5. THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.



CRBTODD
CONSULTING ENGINEERS
7436 Broad River Road, Suite 212
Irmo, S.C. 29063
Tel. 803.781.3141
Fax. 803.781.3142
www.rbtodd.com

GARVINDESIGNGROUP
803.212.1032 g / 803.212.1074 f
P.O. Box 18
Columbia, SC 29902
1709 Lincoln Street

Professional Engineer Seal for R.B. Todd, State of South Carolina, License No. 003947.

PROJECT TITLE
MEN'S BASKETBALL OFFICE AND TEAM SPACES RENOVATION
Carolina Coliseum
701 Assembly Street
Columbia, SC 29201

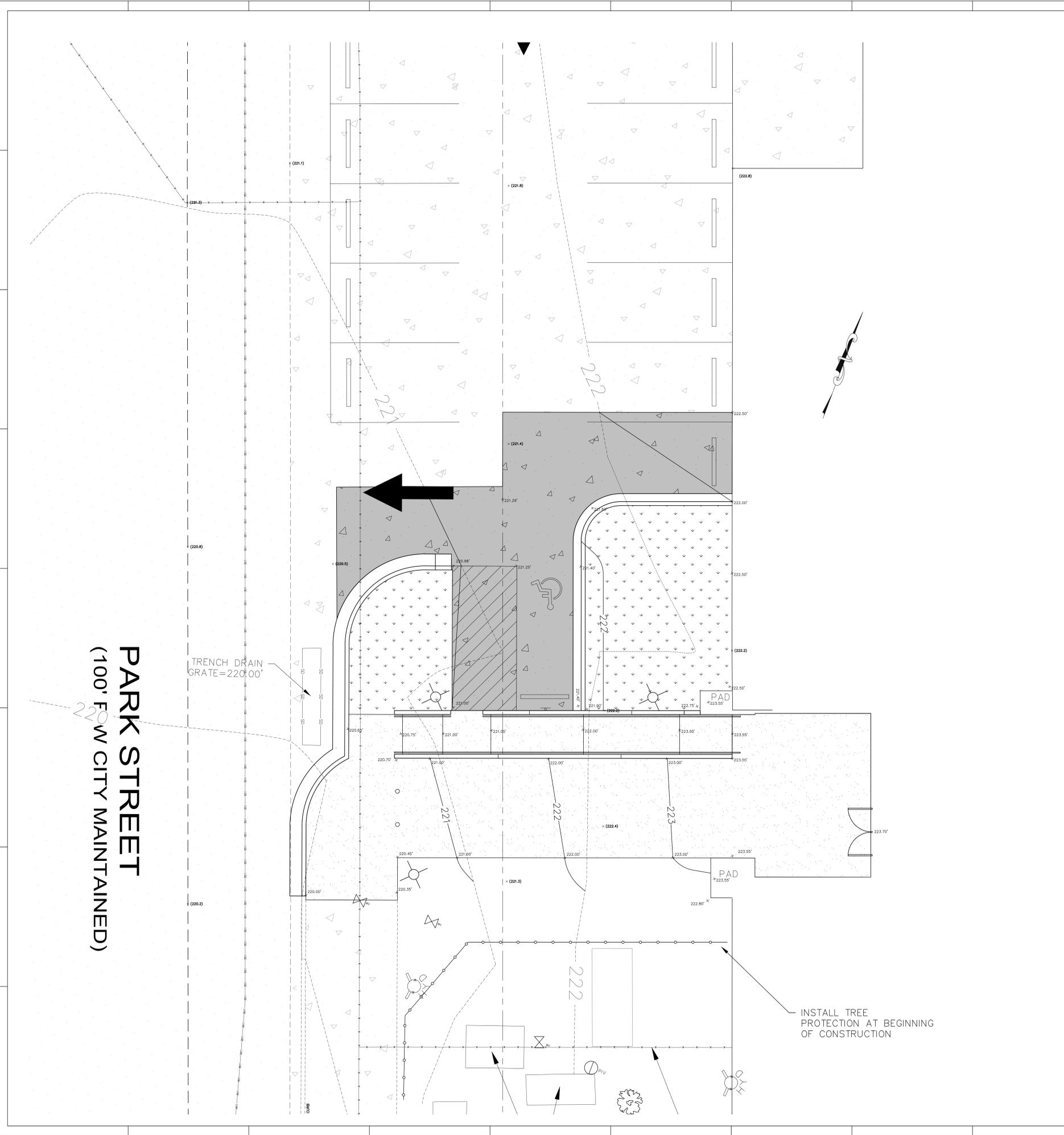
REVISIONS	DATE
NO.	NAME

DRAWN BY:	Author
CHECKED BY:	Checker

DRAWING TITLE
Existing Conditions and Site Demo Plan

PROJECT NO.
DATE

DRAWING NO.
C1.0



PARK STREET
(100' FROM CITY MAINTAINED)

TRENCH DRAIN GRATE=220'00"

- GRADING NOTES:**
- 1) DURING CONSTRUCTION AND UNTIL "SURF" IS ESTABLISHED, USE THE SILT FENCE STORM INLET SEDIMENT TRAP SHOWN ON DETAIL SHEET AROUND ALL INLETS AND FLAPS AND MAINTAIN SILT FENCES AS REQUIRED TO PREVENT EROSION AND SEDIMENTATION RUNOFF.
 - 2) CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO BEGINNING WORK. CONTRACTOR SHALL VERIFY LOCATION AND AVAILABILITY OF ALL UTILITIES AFFECTING THE PROJECT ON AND OFF THE SITE.
 - 3) THE CONSTRUCTION OF ALL STREETS & DRAINAGE FACILITIES SHALL BE GOVERNED BY SDOT STANDARD SPECIFICATIONS, LATEST EDITION.
 - 4) CONTRACTOR SHALL USE THE INLET SEDIMENT PROTECTION ON ALL INLETS UNTIL THE AREA DRAINING TO THE INLET HAS BEEN STABILIZED.
 - 5) ALL SUBGRADE AREAS TO BE COMPACTED TO 98% STANDARD PROCTOR.
 - 6) CONTRACTOR TO INSTALL ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED BY CITY OF COLUMBIA OR SCDEH.
 - 7) PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING ALL UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEARED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY CONSTRUCTION.
 - 8) CONTRACTOR TO REPAIR ANY DAMAGE DONE TO EXISTING PAVEMENT, FENCING, ETC. DUE TO CONSTRUCTION ENTIRELY AT HIS EXPENSE.
 - 9) CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. CONTRACTOR TO DAILY REMOVE MUD/SOIL FROM PAVEMENT AS REQUIRED.
 - 10) ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING 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.
 - 11) ALL UNDERGROUND LOCATIONS ARE APPROXIMATE PER DRAWINGS AND LOCATIONS SUPPLIED BY VARIOUS UTILITY COMPANIES.
 - 12) SEE SOILS REPORT FOR RECOMMENDATIONS AND CONDITIONS OF EXISTING SOILS.
 - 13) ALL DEMOLISHED ITEMS TO BE REMOVED FROM SITE AND DISPOSED OF IN LEGAL MANNER.
 - 14) ALL STORMWATER PIPING TO BE SURVEYED BY A REGISTERED LAND SURVEYOR AND SENT TO ENGINEER TO VERIFY DESIGN CONFORMANCE AND PREPARATION FOR FINAL PROJECT CLOSEOUT WITH NEWBERRY COUNTY AND SCDEH.

- GENERAL NOTES**
1. TOPOGRAPHIC SURVEY WAS COMPLETED BY AECOM ON NOVEMBER 2015. NO BOUNDARY OR TOPOGRAPHIC SURVEY WAS PERFORMED BY R.B. TODD CONSULTING ENGINEERS.
 2. OWNER: USC FACILITIES
743 GREENE STREET
COLUMBIA SC 29208
PHONE NUMBER: 803-777-5900
TMS: 08915-08-01
DEVELOPMENT ADDRESS: 701 ASSEMBLY STREET
TOTAL ACREAGE: 9.1 ACRES
DISTURBED AREA: 3700 SF
 3. ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 45079C0094H, DATED FEB 20, 2002, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X".
 4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.
 5. THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7977 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.

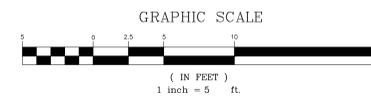
LEGEND

NEW	EXISTING	DESCRIPTION
N/A	+	BENCHMARK/CONTROL POINT
N/A	—	PROPERTY LINE/RIGHT OF WAY
N/A	▭	BUILDING
N/A	○	TREE
829	○	CONTOUR
x 829.50'	x	SPOT ELEVATION
N/A	⊗	FIRE HYDRANT
N/A	⊕	LIGHT POLE
N/A	⊕	WATER VALVE
N/A	⊕	WATER METER
N/A	—	WATER MAIN/SERVICE
SD	—	STORM DRAIN LINE w/STRUCTURE
SS	—	SANITARY SEWER LINE w/MANHOLE
60°	⊕	SANITARY SEWER CLEANOUT
①	x	CHAIN LINK FENCE
	N/A	KEY NOTE REFERENCE

The Palmetto Utility Protection Service, Inc.
800 Dash Upper Blvd. Suite 100 Columbia, South Carolina 29203 (803) 939-1117

South Carolina 811
Call 811 Before you Dig

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 15 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.



RBTODD
CONSULTING ENGINEERS
7436 Broad River Road, Suite 212
Irmo, S.C. 29063
Tel. 803.781.3141
Fax. 803.781.3142
www.rbtodd.com

GARVINDESIGNGROUP
803.212.1032 p / 803.212.1074 f
P.O. Box 18
Columbia, SC 29902

SEAL
SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
R.B. TODD
ASSOCIATES, INC.
NO. 033347
STATE OF SOUTH CAROLINA

SEAL
SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
R.B. TODD
ASSOCIATES, INC.
NO. 033347
STATE OF SOUTH CAROLINA

PROJECT TITLE
MEN'S BASKETBALL OFFICE AND TEAM SPACES RENOVATION

Carolina Coliseum
701 Assembly Street
Columbia, SC 29201

NO.	REVISIONS	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

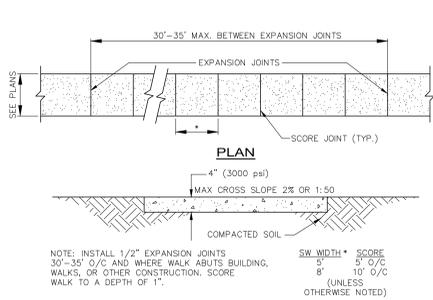
THIS DRAWING AND THE DESIGN INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF GARVIN DESIGN GROUP, INC. NO PART OF THIS DRAWING OR DESIGN INFORMATION MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM GARVIN DESIGN GROUP, INC.

DRAWING TITLE
GRADING AND DRAINAGE PLAN

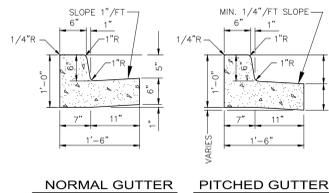
PROJECT NO.
15452-14

DATE
10.05.2015

DRAWING NO.
C3.0

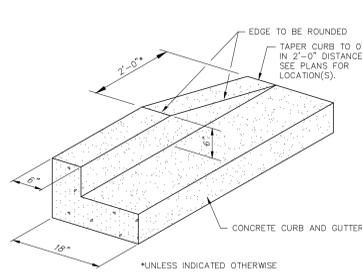


CONCRETE SIDEWALK
SCALE: 1" = 1'-0"



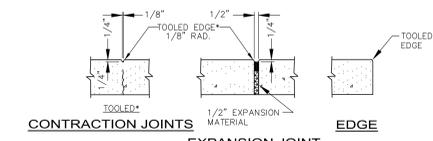
NORMAL GUTTER PITCHED GUTTER

NOTES:
1. CURB AND GUTTER TO BE CONSTRUCTED IN 10-FOOT LENGTHS.
2. PROVIDE 1/2 INCH EXPANSION JOINT MATERIAL AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY LOCATION WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES.
3. PROVIDE A 5' LONG TRANSITION BETWEEN NORMAL GUTTER AND PITCHED GUTTER UNLESS OTHERWISE INDICATED ON PLANS.

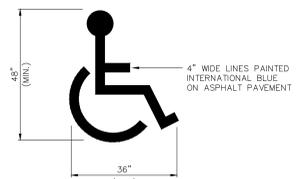


TAPERED CURB
NOT TO SCALE

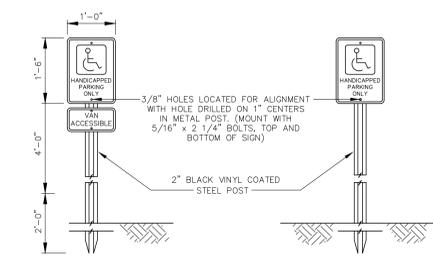
CONCRETE CURB & GUTTER
SCALE: 3/4\"/>



CONCRETE SIDEWALK JOINTS
NOT TO SCALE

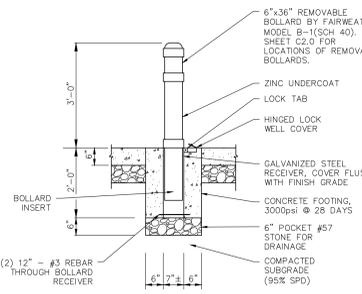
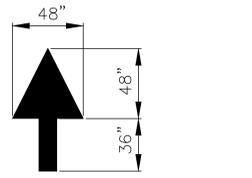


HANDICAP PARKING PAINTED SYMBOL
NOT TO SCALE



HANDICAP SIGN
NOT TO SCALE

DIRECTIONAL ARROW PAVEMENT MARKING
NOT TO SCALE



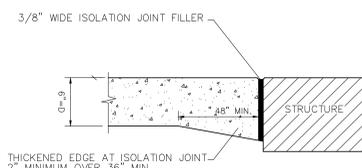
REMOVABLE BOLLARD
NOT TO SCALE

NOTES:
1. BOLLARDS TO BE BY FAIRWEATHER SITE FURNISHINGS, PORT ORCHARD, WA (800-323-1798) OR APPROVED EQUAL.
2. BOLLARDS TO BE POWDER-COATED BLACK.
3. INSTALL BOLLARD RECEIVER 1/4\"/>



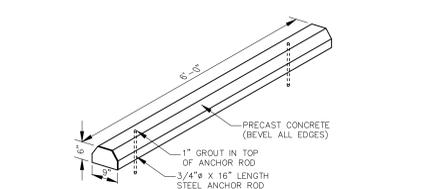
CONCRETE CONTRACTION JOINT 6\"/>

CONCRETE ISOLATION JOINT (E.J.)

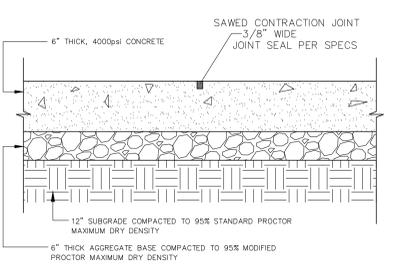


PROVIDE ISOLATION JOINTS WHEN CONCRETE ABUTS ANY STRUCTURE, ALTERNATE PAVEMENT AREA, OR ALTERNATIVE OBJECT.
PROVIDE THICKENED EDGE AS SHOWN ABOVE WHEN CONCRETE ABUTS EXISTING PAVEMENTS AND AT INTERSECTIONS AS NOTED. THICKENED EDGES ARE NOT REQUIRED AT DRAINAGE INLETS OR ADJACENT TO CURBING.

CONCRETE ISOLATION JOINT (E.J.)



PRECAST CONCRETE WHEELSTOP
NOT TO SCALE



HEAVY DUTY CONCRETE PAVEMENT
NOT TO SCALE

SEDIMENT AND EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THROUGHOUT THE LENGTH OF CONSTRUCTION SILT FENCES AT ALL STORM DRAINAGE STRUCTURES AND ALONG THE PERIMETER OF CONSTRUCTION AS NECESSARY TO CONTAIN ALL SEDIMENT RUNOFF WITHIN THE AREA DISTURBED BY CONSTRUCTION.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED EXCEPT AS NOTED OTHERWISE.
3. WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
4. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INSTALLED ON THAT PORTION OF THE SITE.
5. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INADEQUATELY MAINTAINED OR INCORRECTLY INSTALLED, THE POINTS MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
6. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH ONE-THIRD THE HEIGHT OF THE SEDIMENT FENCE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING ALL SLOPES FROM FINISH GRADE TO NATURAL GROUND AND FOR PREVENTING EXCESSIVE EROSION FROM OCCURRING IMMEDIATELY AFTER CEASING WORK. THE IMMEDIATE REPAIR OF GULLIES AND OTHER REACHING SUBSEQUENT EXCAVATIONS FOR OTHER ITEMS, THE CONTRACTOR SHALL INSTANTLY CORRECT ANY DEFICIENCIES IN THE REPAIRS.
8. IF NECESSARY, SLOPES WHICH EXCEED A 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.
9. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING ALL SLOPES FROM FINISH GRADE TO NATURAL GROUND AND FOR PREVENTING EXCESSIVE EROSION FROM OCCURRING IMMEDIATELY AFTER CEASING WORK. THE IMMEDIATE REPAIR OF GULLIES AND OTHER REACHING SUBSEQUENT EXCAVATIONS FOR OTHER ITEMS, THE CONTRACTOR SHALL INSTANTLY CORRECT ANY DEFICIENCIES IN THE REPAIRS.
11. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSET SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
12. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPLOUSE RUNOFF AND/OR DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OULETS.
13. ALL WATERS OF THE STATE (WUS), 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 CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREAS AND ALL WUS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WUS.
14. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FREELY TREATED LUMBER), AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES.
15. A COPY OF THE SWPPP, INSPECTION RECORDS, AND 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.
16. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (SH-1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE TAKEN PLACE.
17. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
18. MINIMIZE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE COLLECTED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISPOSAL.
19. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.).
20. THE FOLLOWING PROHIBITED PRACTICES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
 - WASTEWATER FROM WASHOUT AND CLEANUP OF STUCCO, PAINT, FROM RELEASE DURING CONSTRUCTION AND OTHER CONSTRUCTION MATERIALS.
 - OILS, FUELS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE, AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
21. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
22. IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SCS WATER QUALITY STANDARDS, MODIFICATIONS MUST BE COMPLETED BEFORE THE NEXT STORM EVENT UNLESS OTHERWISE PRACTICAL. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY PRACTICABLE.
23. 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.
24. 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 BEFORE APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ AND S0100000.

CONSTRUCTION SEQUENCE OF ENTIRE CONSTRUCTION AREA FOR EROSION AND SEDIMENT CONTROL

1. PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED AND NON-LINEAR) WITH CITY OF COLUMBIA.
2. NOTIFICATION OF COLUMBIA 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
3. INSTALLATION OF EROSION CONTROL.
4. INSTALLATION OF STORM DRAINAGE.
5. ROUGH GRADING OF NEW PLAZA AREA.
6. INSTALLATION OF STORM DRAINAGE.
7. INSTALLATION OF LANDSCAPING.
8. SITE CLEANUP.

EROSION AND SEDIMENT CONTROL MEASURES

GENERAL
THE CONTRACTOR IS ADVISED THAT ALL GRADING AND DRAINAGE WORK ON THE PROJECT IS PERMITTED UNDER THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL, DIVISION OF STORMWATER MANAGEMENT. COMPLIANCE WITH THE PERMITTED CONDITIONS IS THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL MEASURES.

SILT FENCES
SILT FENCES OR EQUIVALENT SEDIMENT CONTROL SHALL BE INSTALLED WHERE INDICATED AND MAINTAINED IN ACCORDANCE WITH THIS PLAN.

STORM DRAINAGE STRUCTURES
TEMPORARY BARRIERS OF EITHER SILT FENCING OR ROCK RIPRAP SHALL BE INSTALLED AND MAINTAINED AROUND STORM DRAINAGE STRUCTURES UNTIL THEIR DRAINAGE AREA IS STABILIZED. STORM DRAINAGE STRUCTURES INCLUDING GULLET PROTECTION, SHALL BE INSTALLED AS SOON AS EARTH GRADING IS ADEQUATE TO ACCEPT PIPE INSTALLATION. INLET STRUCTURES SHALL BE CONSTRUCTED AS THE EARTHWORK IS PLACED AND CONSTRUCTION SHALL AT ALL TIMES PROVIDE SURFACE DRAINAGE TO THEM. TEMPORARY BARRIERS SHALL BE INSTALLED AND MAINTAINED AT EACH INLET AS THE EARTH FILL RISES.

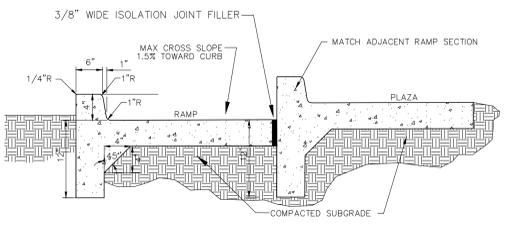
STABILIZATION OF DISTURBED AREAS
DISTURBED AREAS SHALL RECEIVE STABILIZING MEASURES WITHIN 14 DAYS AFTER DISTURBANCES, UNLESS CONSTRUCTION WILL RESUME IN THAT AREA WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED.

INSPECTION AND MAINTENANCE
SEDIMENT CONTROL SYSTEMS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER ANY RAINFALL EVENT EXCEEDING 0.5 INCH. ANY NEEDED CORRECTIONS OR MAINTENANCE SHALL BE ACCOMPLISHED IMMEDIATELY THEREAFTER.

REMOVAL OF SEDIMENT CONTROL SYSTEMS
TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AFTER EACH AFFECTED AREA HAS BEEN "FINALLY STABILIZED".

TEMPORARY DIVERSIONS
TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPLOUSE RUNOFF AND/OR DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OULETS. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO PREVENT FLOW OF STORMWATER OVER DISTURBED AREA. TEMPORARY DIVERSION OULETS SHALL HAVE ADEQUATE CAPACITY AND TERMINATE INTO UNSEI VEGETATION, ROCK RIP RAP, STORM STRUCTURES OR SIMILAR MEASURES TO PREVENT EROSION AT THE OULET. TEMPORARY DIVERSION CHANNELS SHALL BE CONSTRUCTED AND MAINTAINED AT A MINIMUM OF 1 PERCENT GRADE AND A MAXIMUM GRADE OF 2 PERCENT. THE CAPACITY OF TEMPORARY DIVERSIONS SHALL BE RESTORED ANYTIME THE EXCAVATED CHANNELS BECOME FULL OF SEDIMENT AT ANY POINT IN THE LENGTH OF THE DIVERSION. THE ROADS AND CHANNEL OF THE TEMPORARY DIVERSIONS SHALL BE STABILIZED WITH TEMPORARY VEGETATION IMMEDIATELY AFTER CONSTRUCTION AND RE-STABILIZED AFTER EACH DISTURBANCE.

PREDOMINANT SOIL TYPE
URBAN LAND U1



NOTES:
1. CURB TO BE FORMED AND POURED INTEGRAL WITH WALK CONSTRUCTION.
2. PROVIDE 3/8 INCH EXPANSION JOINT MATERIAL AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY LOCATION WHERE THE NEW CURB ABUTS OTHER CONCRETE STRUCTURES.
3. PROVIDE CONTRACTION JOINTS AS SHOWN ON THE SITE LAYOUT PLAN PEDESTRIAN WALKWAYS TO HAVE TOOLED JOINTS.
4. LIGHT CONCRETE BROOM FINISH.

TYPICAL SECTION AT RAMP/PLAZA

CRBTODD CONSULTING ENGINEERS
7436 Broad River Road, Suite 212
Limo, S.C. 29063
Tel: 803.781.3141
Fax: 803.781.3142
www.crbtodd.com

GARVINDESIGNGROUP
803.212.1032 p / 803.212.1074 f
P.O. Box 18
Columbia, SC 29202
1709 Lincoln Street

PROFESSIONAL SEALS
SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
CRBTODD CONSULTING ENGINEERS, INC.
NO. C3534

PROFESSIONAL SEALS
SOUTH CAROLINA
REGISTERED PROFESSIONAL ARCHITECT
Garvin Design Group
NO. W-1070

PROJECT TITLE
MEN'S BASKETBALL OFFICE AND TEAM SPACES RENOVATION

Carolina Coliseum
701 Assembly Street
Columbia, SC 29201

NO.	REVISIONS	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

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DRAWING TITLE
SITE DETAILS

PROJECT NO. USB4-L4
DATE 10.26.2015
DRAWING NO. C4.0



STATE FISCAL ACCOUNTABILITY AUTHORITY

INSURANCE RESERVE FUND
POST OFFICE BOX 11066
COLUMBIA, SOUTH CAROLINA 29211

Phone: (803) 737-0020

POLICY NUMBER T120080016	FROM 07/01/2015	POLICY PERIOD TO 07/01/2016	TYPE OF INSURANCE GENERAL TORT LIABILITY	DATE PRINTED 19 JUN 2015
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COVERAGE PROVIDED UNDER THIS POLICY PART IS SUBJECT TO THE FOLLOWING FORMS:
CD-01 CD-10 CD-12 CD-37.

NAMED INSURED AND ADDRESS UNIVERSITY OF SOUTH CAROLINA RISK MANAGEMENT COLUMBIA, SC 29208	CONTACT PERSON AND PHONE BRIAN R HANN (803)777-2828	FORM # CD-12	PAGE 1 OF 1
	TYPE OF ACTIVITY ENDORSEMENT CERTIFICATE OF INSURANCE		ACTIVITY # 003

EFFECTIVE DATE - 07/01/2015

NAME AND ADDRESS OF CERTIFICATE HOLDER: 0003

CITY OF COLUMBIA
PO BOX 147
COLUMBIA SC 29217-0000

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES LISTED BELOW.

THIS IS TO CERTIFY THAT A POLICY HAS BEEN ISSUED TO THE ABOVE NAMED INSURED AND IS IN FORCE AT THIS TIME. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THIS POLICY DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF THIS POLICY.

POLICY EXCLUDES ALL CONTRACTUAL LIABILITY.

CANCELLATION: SHOULD THIS POLICY BE CANCELLED BEFORE EXPIRATION DATE THEREOF THE INSURANCE RESERVE FUND WILL ENDEAVOR TO PROVIDE 30 DAYS WRITTEN NOTICE TO ABOVE NAMED CERTIFICATE HOLDER, BUT FAILURE TO PROVIDE SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY.

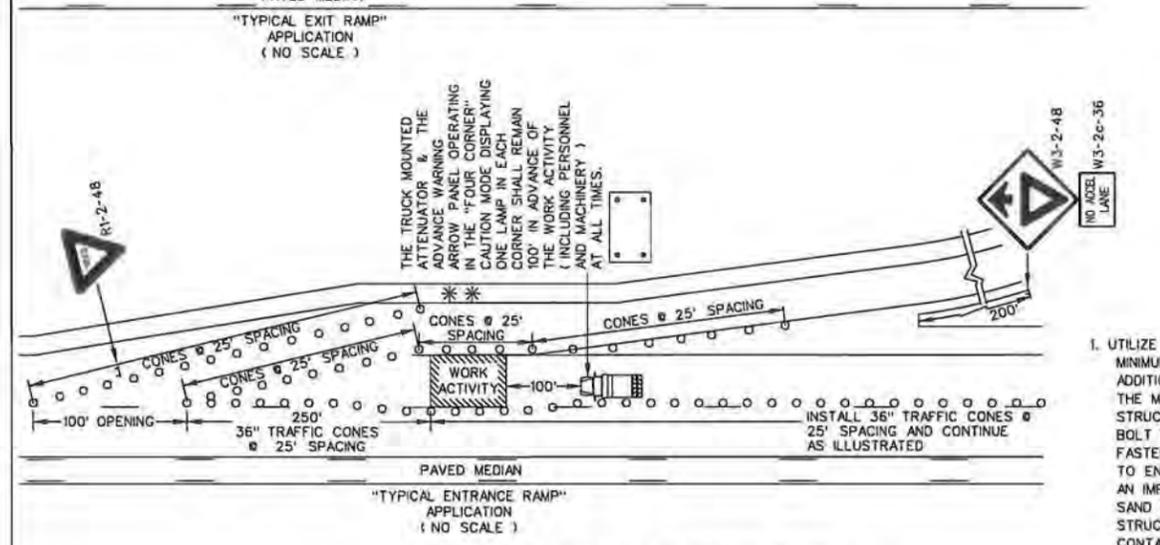
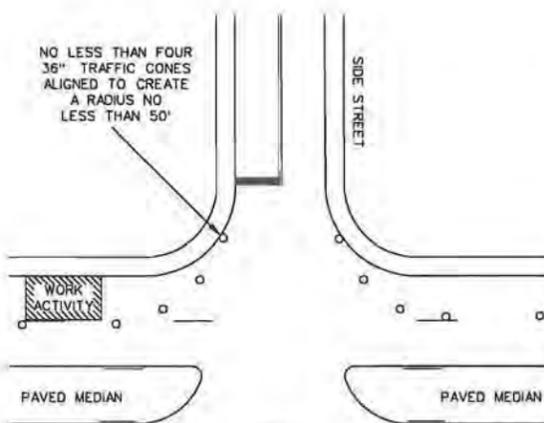
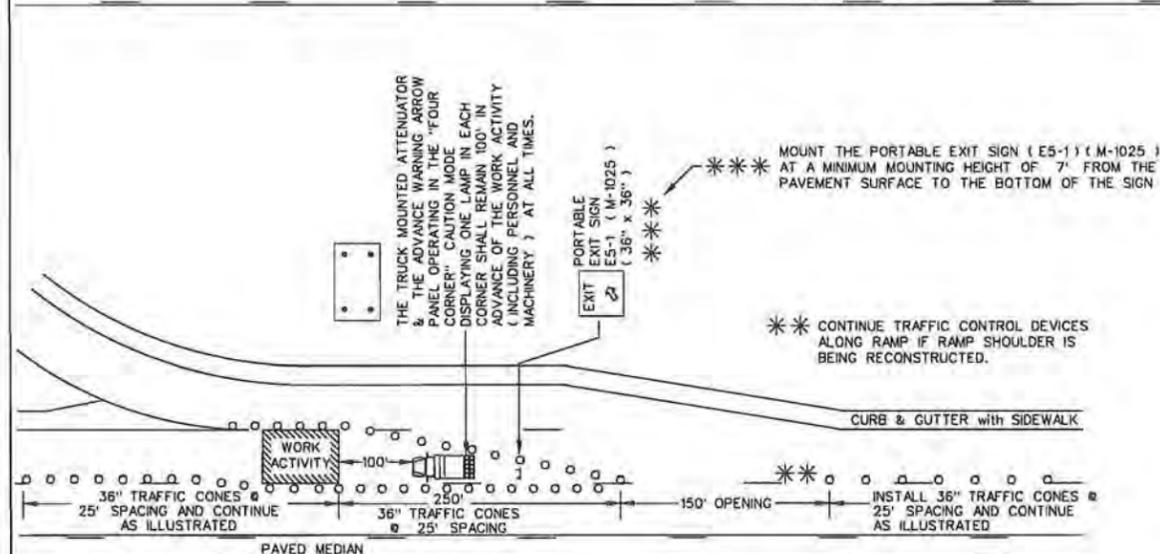
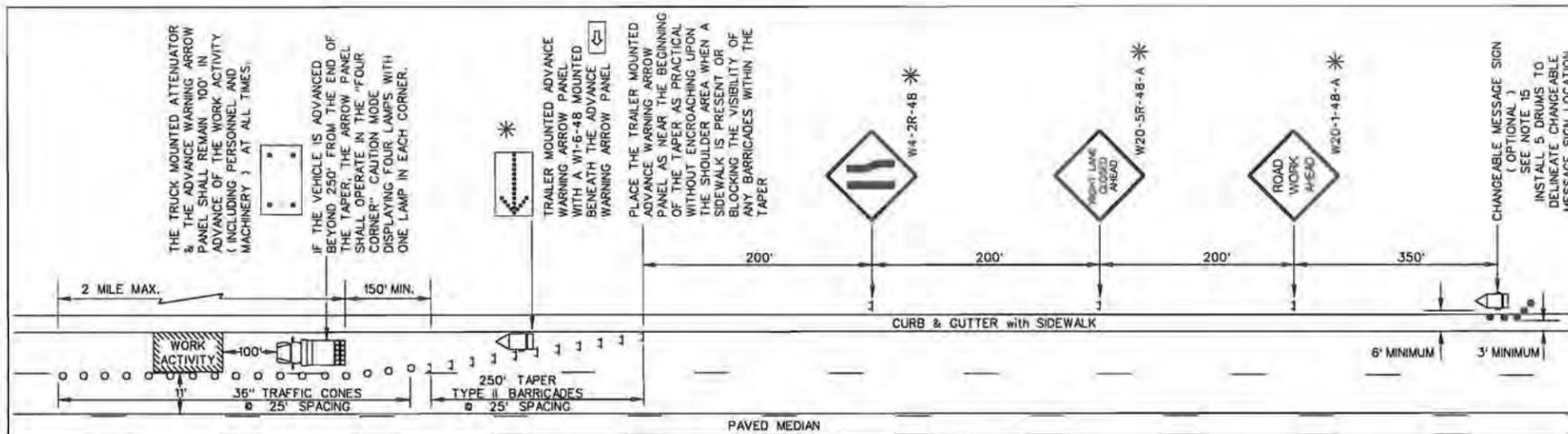
COVERAGE PROVIDED FOR:	LIMIT OF LIABILITY
THE ABOVE NAMED INSURED, ITS EMPLOYEES AND/OR VOLUNTEER EMPLOYEES	\$1,000,000 PER OCCURRENCE

THIS ENDORSEMENT SHOULD BE ATTACHED TO AND BECOME PART OF POLICY T120080016

JUNE 19, 2015

DATE

ANNE MACON SMITH
Director



ADVANCE WARNING ARROW PANEL

ALL ADVANCE WARNING ARROW PANELS SHALL BE 48" x 96" WITH A MINIMUM LEGIBILITY DISTANCE OF 1 MILE. PLACEMENT OF AN ADVANCE WARNING ARROW PANEL MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS. THE PANEL FACE SHALL BE NONREFLECTIVE BLACK. ALL ADVANCE WARNING ARROW PANELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

WHEN AN ADVANCE WARNING ARROW PANEL IS REQUIRED TO OPERATE IN THE CAUTION MODE, THE ADVANCE WARNING ARROW PANEL SHALL DISPLAY THE "FOUR CORNERS" CAUTION MODE, WITH ONE LAMP IN EACH CORNER. DISPLAY OF ANY OTHER TYPE OF CAUTION MODE OTHER THAN THE "FOUR CORNERS" CAUTION MODE SUCH AS THE "FLASHING BAR" OR THE "ALTERNATING DIAMOND" CAUTION MODES ARE UNACCEPTABLE AND PROHIBITED.

LEGEND

○ 36" TRAFFIC CONES

THIS DRAWING IS NOT TO SCALE

GENERAL NOTES

1. ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
2. INSTALL ADVANCE WARNING SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH EARTH SHOULDERS AND NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH PAVED SHOULDERS. WHEN CURB & GUTTER IS PRESENT, INSTALL THE SIGN NO LESS THAN 2 FEET FROM THE NEAR EDGE OF THE SIGN TO THE FACE OF THE CURB.
3. SPACINGS INDICATED ARE FOR NORMAL CONDITIONS; ADJUSTMENTS MAY BE REQUIRED DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DISTANCE RESTRICTIONS.
4. ALL SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET FROM THE GROUND TO THE BOTTOM OF THE SIGN. ALL SIGNS MOUNTED ON GROUND MOUNTED U-CHANNEL POSTS OR SQUARE STEEL TUBE POSTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET FROM THE GRADE ELEVATION OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. MOUNT ALL SIGNS STRAIGHT AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
5. REFLECTORIZE ORANGE ADVANCE WARNING SIGNS AND ANY ORANGE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A FLUORESCENT ORANGE COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZE WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A WHITE COLORED PRISMATIC RETROREFLECTIVE SHEETING.
6. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org.
7. THE CONTRACTOR SHALL PROVIDE AND UTILIZE ANY SPECIAL SIGN MOUNTING ASSEMBLIES AND HARDWARE THAT MAY BE NECESSARY FOR INSTALLING AND MOUNTING SIGNS IN AREAS OF CONCRETE MEDIAN BARRIER, BRIDGE PARAPET WALLS OR DOUBLEFACED GUARDRAIL.
8. REFLECTORIZING OF 36" TRAFFIC CONES USED DURING DAYLIGHT HOURS IS NOT REQUIRED. IF THIS TRAFFIC CONTROL SETUP EXTENDS INTO THE NIGHTTIME HOURS, REPLACE ALL 36" TRAFFIC CONES WITH EITHER PORTABLE PLASTIC DRUMS OR 42" OVERSIZED TRAFFIC CONES. REFLECTORIZE ALL PORTABLE PLASTIC DRUMS AND 42" OVERSIZED TRAFFIC CONES WITH TYPE III FLEXIBLE PRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
9. REFLECTORIZE ALL BARRICADES WITH A TYPE VIII OR IX PRISMATIC RETROREFLECTIVE SHEETING ON ALL PROJECTS LET TO CONTRACT AFTER MAY 1, 2012 UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
10. TYPE II BARRICADES SHALL HAVE A MINIMUM WIDTH OF 3 FEET UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
11. CONDUCT THE WORK IN SUCH A MANNER THAT WILL MINIMIZE ENCROACHMENT OF TRAFFIC CONTROL DEVICES, EQUIPMENT, PERSONNEL, MATERIALS OR ANY WORK RELATED VEHICLES ONTO AN ADJACENT TRAVEL LANE OPEN TO TRAFFIC. INSTALL, MAINTAIN AND ADJUST THE TRAFFIC CONTROL DEVICES AS NECESSARY TO ENSURE PROPER DELINEATION OF THE WORK AREA.
12. LANE CLOSURES ARE RESTRICTED TO MAXIMUM LENGTHS OF 2 MILES UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS AND/OR THE DEPARTMENT.
13. IF WORK IS BEING CONDUCTED SIMULTANEOUSLY AT TWO DIFFERENT LOCATIONS WITHIN THE SAME TRAVEL LANE UNDER TWO SEPARATE LANE CLOSURES ON A LOW SPEED URBAN ROADWAY, SEPARATE THE TWO LANE CLOSURES BY NO LESS THAN 1 MILE FROM THE END OF THE FIRST CLOSURE THAT A MOTORIST WILL ENCOUNTER TO THE BEGINNING OF THE TAPER OF THE SECOND CLOSURE.
14. IF WORK IS BEING CONDUCTED SIMULTANEOUSLY AT TWO DIFFERENT LOCATIONS IN THE SAME DIRECTION BUT WITHIN DIFFERENT TRAVEL LANES UNDER TWO SEPARATE LANE CLOSURES ON A LOW SPEED URBAN ROADWAY, SEPARATE THE TWO LANE CLOSURES BY NO LESS THAN 2 MILES FROM THE END OF THE FIRST CLOSURE THAT A MOTORIST WILL ENCOUNTER TO THE BEGINNING OF THE TAPER OF THE SECOND CLOSURE.
15. UTILIZATION OF A CHANGEABLE MESSAGE SIGN IS OPTIONAL WITH THIS TRAFFIC CONTROL SETUP. HOWEVER, WHEN A CHANGEABLE MESSAGE SIGN IS UTILIZED, INSTALL THE SIGN AS ILLUSTRATED ON THIS STANDARD DRAWING UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS, THE PLANS AND/OR THE ENGINEER. INSTALL THE CHANGEABLE MESSAGE SIGN NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE ADJACENT TRAVEL LANE AND SUPPLEMENT THE SIGN LOCATION WITH NO LESS THAN 5 PORTABLE PLASTIC DRUMS FOR DELINEATION AS ILLUSTRATED. 36" STANDARD TRAFFIC CONES OR 42" OVERSIZED TRAFFIC CONES ARE PROHIBITED AS SUBSTITUTES FOR THE PORTABLE PLASTIC DRUMS IN THIS APPLICATION. DURING A RIGHT LANE CLOSURE, THE SIGN SHOULD FLASH ALTERNATELY TO READ "RIGHT LANE CLOSED", "MERGE LEFT" AT A RATE THAT WILL PERMIT MOTORISTS TO READ BOTH MESSAGES AT LEAST ONCE.
16. THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE IF THE TRAFFIC CONTROL IS NOT PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, THE STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.
17. THIS TYPICAL TRAFFIC CONTROL SETUP APPLIES TO THE INSTALLATION OF A LANE CLOSURE ON AN URBAN ROADWAY WITH A POSTED REGULATORY SPEED LIMIT OF 35 MPH OR LESS.

PORTABLE TRUCK MOUNTED ATTENUATOR

1. UTILIZE A TRUCK MOUNTED ATTENUATOR ATTACHED TO THE REAR OF A TRUCK WITH A MINIMUM GROSS VEHICULAR WEIGHT (GVM) OF 15,000 POUNDS (ACTUAL WEIGHT). IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, CONTAIN THE MATERIAL WITHIN A STRUCTURE CONSTRUCTED OF STEEL. CONSTRUCT THIS STEEL STRUCTURE TO HAVE A MINIMUM OF FOUR SIDES AND A BOTTOM. A TOP IS OPTIONAL. BOLT THIS STRUCTURE TO THE FRAME OF THE TRUCK. UTILIZE A SUFFICIENT NUMBER OF FASTENERS FOR ATTACHMENT OF THE STEEL STRUCTURE TO THE FRAME OF THE TRUCK TO ENSURE THE STRUCTURE WILL NOT SEPARATE FROM THE FRAME OF THE TRUCK DURING AN IMPACT UPON THE ATTACHED TRUCK MOUNTED ATTENUATOR. UTILIZE EITHER DRY LOOSE SAND OR STEEL REINFORCED CONCRETE FOR BALLAST MATERIAL WITHIN THE STEEL STRUCTURE TO ACHIEVE THE NECESSARY WEIGHT. THE BALLAST MATERIAL SHALL REMAIN CONTAINED WITHIN THE CONFINES OF THE STEEL STRUCTURE AND SHALL NOT PROTRUDE FROM THE STEEL STRUCTURE IN ANY MANNER.
2. LOCATE THE TRUCK MOUNTED ATTENUATOR 100 FEET IN ADVANCE OF THE WORK AREA UNLESS OTHERWISE SPECIFIED.
3. PROVIDE, INSTALL AND MAINTAIN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
4. DUE TO THE WEIGHT OF A TRUCK MOUNTED ATTENUATOR, THE TRUCK MOUNTED ATTENUATOR SUPPLEMENTED WITH AN ADVANCE WARNING ARROW PANEL MAY BE REPLACED WITH A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL WHEN THIS TRAFFIC CONTROL SETUP IS UTILIZED FOR ASPHALT CONCRETE PAVEMENT OPERATIONS. REPLACEMENT WITH A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL SHALL REQUIRE THE ENGINEER'S APPROVAL.

*** LEFT LANE CLOSURE**

1. SIGNS ILLUSTRATED ARE FOR A RIGHT LANE CLOSURE.
2. WHEN CLOSING THE LEFT TRAVEL LANE, USE THE FOLLOWING:
 - 1 - W4-2L-4B
 - 1 - W20-5L-4B-A
3. THE STRIPES ON THE BARRICADES TO THE LEFT OF TRAFFIC SLOPE DOWNWARD FROM THE UPPER LEFT TO THE LOWER RIGHT.
4. THE FLASHING ARROW AND THE "LARGE ARROW" SIGN (W1-6-4B) SHALL POINT TO THE RIGHT.
5. THE CHANGEABLE MESSAGE SIGN SHALL FLASH ALTERNATELY TO READ "LEFT LANE CLOSED", "MERGE RIGHT".

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie E. McConnell, Jr.
SIGNATURE
8/2/12
DATE

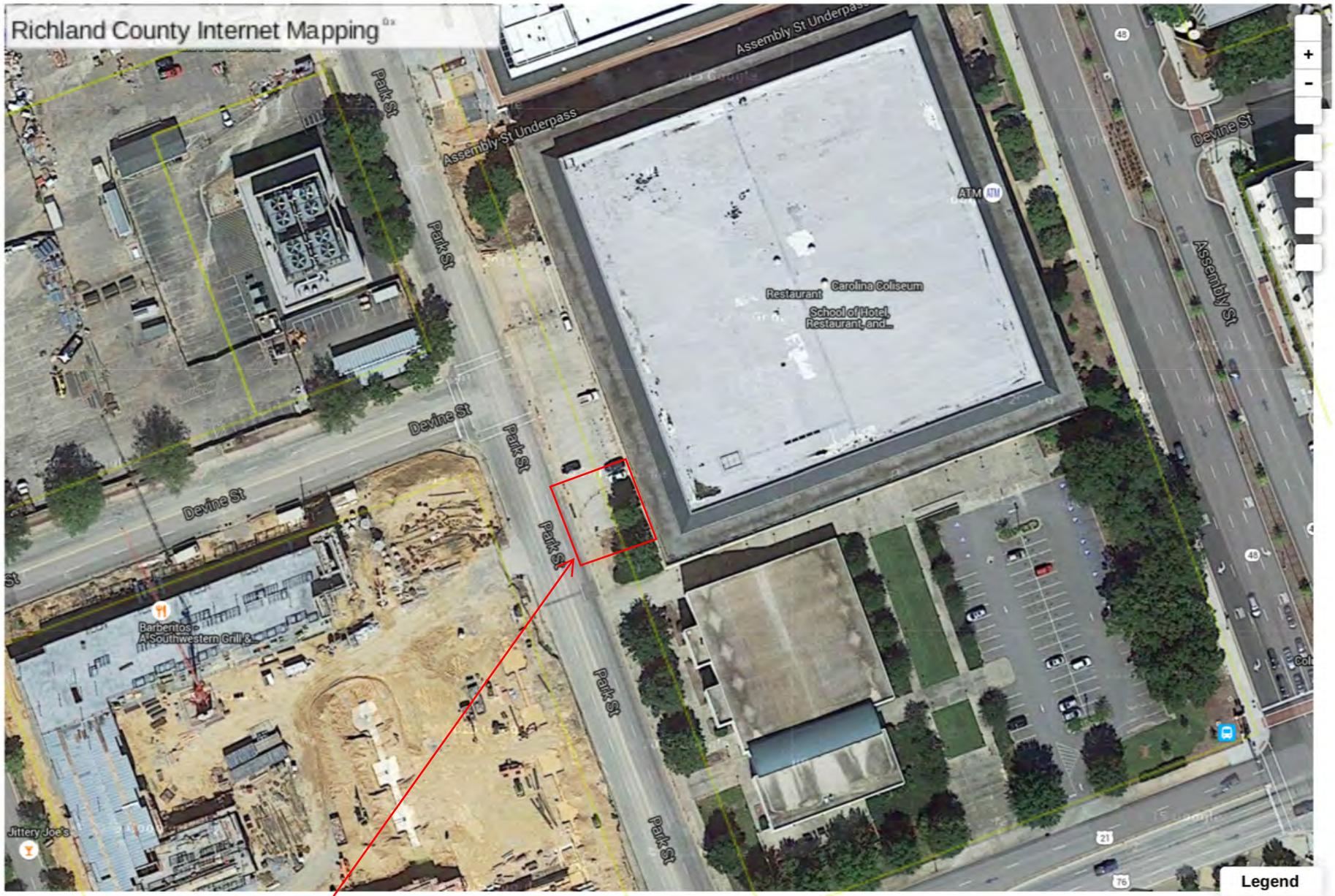
6			
5			
4			
3			
2	2-11-11	JCS	GENERAL UPDATE
1	5-28-10	JCS	CORRECTION
0	8-21-07	JCS	DRAWING NO. UPDATE
#	DATE	CHK	DESCRIPTION

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

LANE CLOSURE
DAYTIME
URBAN LOW SPEED
35 MPH

610-010-00
EFFECTIVE LETTING DATE | JAN, 2013



Pointer: 33.9942691, -81.0317820
Leaflet | Satellite basemap © Google, Roads basemap © Google



March 9, 2016

City of Columbia
1136 Washington St.
Columbia, SC 29217

RE: USC Men's Basketball Renovations – City Encroachment within Park Street.

To Whom it may Concern:

The University of South Carolina is proposing renovations to the existing Carolina Coliseum for their basketball operations. This involves rework of the Park Street pedestrian entrance on the lower level just south of the existing service area. We are hereby requesting encroachment approval along Park Street for the following activities:

- 1) Removal and replacement of portions of sidewalk along Park Street.
- 2) Installation of new concrete pedestrian entry, including accessible ramp.
- 3) Rework of some of the concrete pavement as required to accommodate an accessible parking space.
- 4) Restriping of the parking area north of pedestrian entrance.

I have attached the Application for Temporary Encroachment, Encroachment Ordinance Request Form, and Certificate of Insurance from USC, and plans of the proposed work. If you need any additional information or if you have any questions or comments, please feel free to call 803-781-3141, ext 303.

Sincerely,
RB Todd & Associates, Inc.

A handwritten signature in blue ink, appearing to read "Clayton Cannon", is written over a faint, light-colored circular stamp.

Clayton W. Cannon, PE