

**ORIGINAL  
STAMPED IN RED**

**ORDINANCE NO.: 2021-076**

*Granting an encroachment to Columbia Student Property Owner, LLC for the use of the right of way area of the 1400 block of Assembly Street and the 1000 block of Washington Street for the installation and maintenance of sidewalks, landscaping, irrigation, and parking adjacent to its building under construction at 1401 Assembly Street, Richland County TMS#09013-03-06*

WHEREAS, Columbia Student Property Owner, LLC (hereinafter "Grantee") desires to utilize a portion of the right of way area of the 1400 block of Assembly Street and the 1000 block of Washington Street for the installation and maintenance of sidewalks, landscaping, irrigation, and parking adjacent to its building under construction at 1401 Assembly Street, 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 7<sup>th</sup> day of December, 2021, that Grantee is hereby granted the right to use the right of way areas of the 1400 block of Assembly Street and the 1000 block of Washington Street adjacent to 1401 Assembly Street, Richland County TMS#09013-03-06, for the installation and maintenance of sidewalks measuring approximately eight (8') feet in width four hundred fifty-six (456') feet in length, six (6) on-street parking spaces measuring eight (8') feet in width eighteen (18') feet in length, landscaping, and irrigation as shown on the attached drawings.

PROVIDED FURTHER that all work shall comply with the requirements of The City of Columbia, South Carolina Department of Transportation (SCDOT) 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 Grantee's 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; and,

PROVIDED further that in the event the City has to make repairs or maintain utility lines located within the encroachment area the City will replace any items removed for the utility repair or maintenance with like items to those removed; and,

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; and,

PROVIDED FURTHER that a certificate of insurance be issued as evidence of general liability insurance with at least the minimum amount of \$600,000.00 for personal injury and property damage and naming the City as an insured, be provided to and filed annually with the City Clerk by Grantee, his successors and assigns, as required by Chapter 11, Licenses, Permits, Business Regulations, Article III, Contractors, Sec. 11-71, 1998 Code of Ordinances of the City of Columbia, South Carolina.

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 the driveway 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. Grantee is responsible for all maintenance and assuring that all accessibility and ADA requirements are met and maintained.

3. Grantee is responsible for maintaining landscaping and improvements.

4. Irrigation must be designed to avoid spraying walkways, sidewalks and streets and/or creating hazardous conditions upon the walkways, sidewalks and streets.

5. Obstructions of more than be four (4') feet in height are prohibited within the sight-visibility triangle.

6. Forestry and Beautification shall be provided access to trees within the right of way for maintenance purposes.

7. All trees shall be protected and no large tree roots shall be removed from any existing trees.

8. The six on-street parking spaces located in the Washington Street right-of-way are public spaces and may be metered.


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:

  
\_\_\_\_\_  
City Attorney

ATTEST:

  
\_\_\_\_\_  
City Clerk

Introduced: 12/7/2021

Final Reading: 12/21/2021

**CITY COUNCIL  
ENCROACHMENT SUMMARY  
2021-076**



**1400 BLOCK OF ASSEMBLY STREET, 1000 BLOCK OF WASHINGTON STREET  
ADJACENT TO 1401 ASSEMBLY STREET  
SIDEWALKS, LANDSCAPING, IRRIGATION, AND PARKING**

<b>Subject Property:</b>	Right-of-way adjacent to 1401 Assembly Street
<b>Council District:</b>	2
<b>Proposal:</b>	The applicant is requesting an encroachment for installation and maintenance of sidewalks, landscaping, irrigation and parking.
<b>Applicant:</b>	Columbia Student Property Owner, LLC
<b>Staff Recommendation:</b>	Approval.

<b>Detail:</b>	<p>The applicant is requesting an encroachment for installation and maintenance of sidewalks measuring approximately eight (8') feet in width four hundred fifty-six (456') feet in length, six (6) on-street parking spaces measuring eight (8') feet in width eighteen (18') feet in length, landscaping, and irrigation , as shown on the attached drawings; and,</p> <p>Conditions of the proposed encroachment are as follows:</p> <ol style="list-style-type: none"> <li>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 the driveway 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.</li> <li>2. Grantee is responsible for all maintenance and assuring that all accessibility and ADA requirements are met and maintained.</li> <li>3. Grantee is responsible for maintaining landscaping and improvements.</li> <li>4. Irrigation must be designed to avoid spraying walkways, sidewalks and streets and/or creating hazardous conditions upon the walkways, sidewalks and streets.</li> <li>5. Obstructions of more than be four (4') feet in height are prohibited within the sight-visibility triangle.</li> <li>6. Forestry and Beautification shall be provided access to trees within the right of way for maintenance purposes.</li> <li>7. All trees shall be protected and no large tree roots shall be removed from any existing trees.</li> <li>8. The six on-street parking spaces located in the Washington Street right-of-way are public spaces and may be metered.</li> </ol>
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**CITY AGENCY COMMENTS FOR ENCROACHMENT**

<b>Lucinda Statler, Planning Department</b>	Recommend approval.
<b>Robert Anderson, Street Division</b>	Recommend approval.
<b>Denny Daniels, Columbia Water Engineering</b>	Recommend approval.

<b>Andrew Ritter, Traffic Engineering</b>	Recommend approval.
<b>Caleb King, Forestry Division</b>	Recommend approval.
<b>Johnathan Chambers, Land Development</b>	Recommend approval.
<b>Kris Scott, Fire Department</b>	Recommend approval.
<b>Tori Salvant, Parking Services</b>	Recommend approval.



# City of Columbia

## The edge encroachment



Friday, June 4, 2021



### 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.



We Are Columbia



**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: 6/3/2021 Property Owner: CRG Acquisition LLC  
 Applicant's Name if different from Property Owner: Same  
 Contact Information: Telephone Number: (312)216-5688 Fax Number: \_\_\_\_\_  
 Mailing address: 1401 Assembly St. E-mail address: smithjj@realcrg.com

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): 27'X19' concrete driveway access.  
 (i.e. 6x42' wooden privacy fence;  
 two 12'x4'x3' concrete steps)

Construction material: heavy and light duty concrete, asphalt, Landscaping.

**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.

Name/Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

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	jlthompson@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	randerson@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	cdgkoon@columbiasc.net
John David Spade	Parking Services	803-545-3070	803-733-8523	spade@columbiasc.net

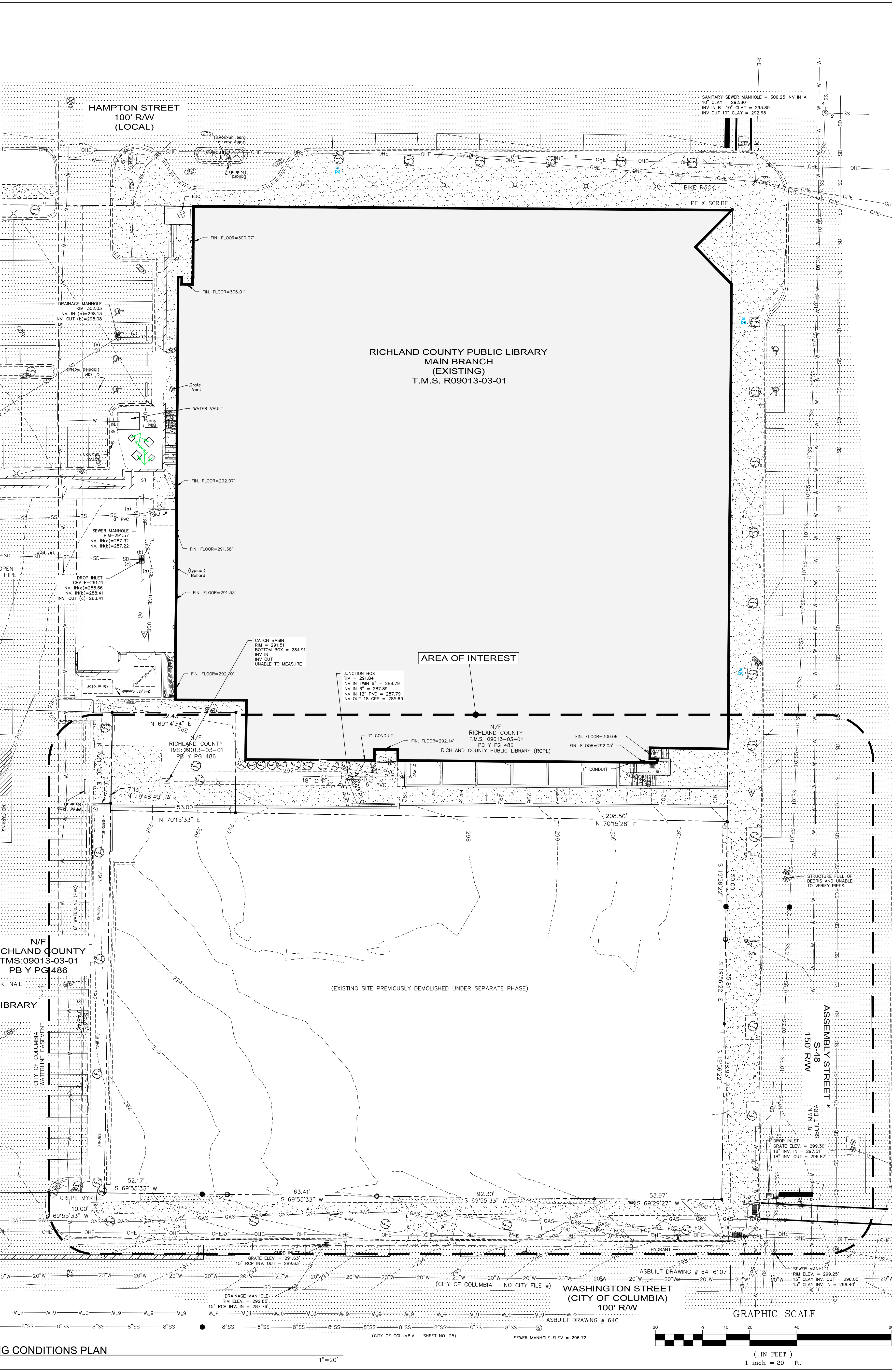
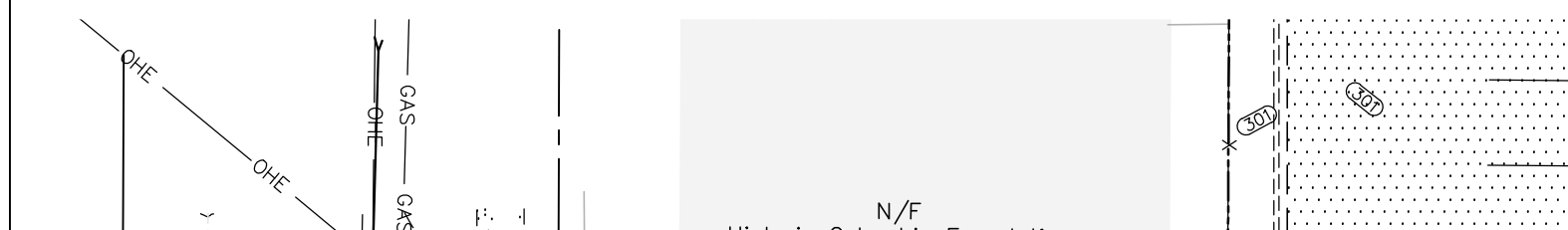






### LEGEND

EXISTING	DESCRIPTION
	BENCHMARK/CONTROL POINT
	PROPERTY LINE
	BUILDING
	LIGHT POLE
	TREE
	BITUMINOUS SURFACE
	CONCRETE SURFACE
	CONTOUR
	SPOT ELEVATION
	CHAIN LINK FENCE
	WATER VALVE
	WATER METER
	UNDERGROUND ELECTRIC LINE w/LIGHT POLE
	SANITARY SEWER LINE w/MANHOLE
	STORM DRAIN LINE w/STRUCTURE
	KEY NOTE REFERENCE



### UTILITY OWNER INFORMATION

**WATER / SEWER / STORM**  
 CITY OF COLUMBIA  
 PO BOX 147  
 COLUMBIA, SC 29217  
 SCOTT ROGERS  
 803-545-3290

**ELECTRICAL**  
 DOMINION ENERGY SOUTH CAROLINA, INC.  
 220 OPERATION WAY  
 CAYCE, SC 29033  
 DANIEL HERNANDEZ  
 DANIEL.HERNANDEZ@SCANA.COM

**TELEPHONE**  
 AT&T  
 5530 FOREST DR #8  
 COLUMBIA, SC 29206  
 JASON MONAGHTON  
 2618-802-1103

**TELEPHONE**  
 SPRINT COMMUNICATIONS  
 1500 HAMPTON ST  
 COLUMBIA, SC 29201  
 KEVIN COMLANDER  
 803-726-8318

### OWNER/ZONING/SITE INFORMATION 3

ITEM	DESCRIPTION
TMS #	R09013-03-13
OWNER	CRG ACQUISITION LLC
OWNER ADDRESS	2199 INTERBELT BUSINESS CENTER DRIVE, ST LOUIS, MO 63114
OWNER PHONE	312-216-5688
OWNER EMAIL	SMITH@JUREAL.CRG.COM
ZONING	C-4
SITE ADDRESS	1401 ASSEMBLY STREET
TOTAL ACREAGE	0.95
DISTURBED ACREAGE	0.95

- ### GENERAL NOTES
- TOPOGRAPHIC SURVEY WAS COMPLETED BY SURVEY ONE, LLC ON 8/20/15, AND UPDATED ON 5/2/2016. NO BOUNDARY OR TOPOGRAPHIC SURVEY WAS PERFORMED BY ADC ENGINEERING. THE SURVEY HAS BEEN SUPPLEMENTED WITH FAST SURVEY SITE IMPROVEMENTS, IMMEDIATELY SOUTH AND SOUTHEAST OF THE RICHLAND COUNTY PUBLIC LIBRARY MAIN BRANCH.
  - ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 45079C0243L, DATED 12/21/2017, THIS PROPERTY IS LOCATED IN FLOOD ZONE "X".
  - THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS.
  - THE CONTRACTOR SHALL NOTIFY PUPS AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE ALL UNDERGROUND UTILITIES LOCATED.
- ### KEY NOTES
- SAWCUT AND REMOVE PAVEMENT TO ALLOW INSTALLATION OF NEW STORM DRAIN. COORDINATE WITH DRAWING C3.1 AND C3.2.
  - SAWCUT AND REMOVE CURB AND GUTTER AS NEEDED TO INSTALL NEW STORM DRAIN.

- ### GENERAL NOTES
- EMERGENCY EXITS FROM ALL CAMPUS BUILDINGS MUST BE MAINTAINED WITH APPROPRIATE SIGNAGE. EMERGENCY EXITS MUST NEVER BE BLOCKED. A CLEAR EXIT PATHWAY MUST BE MAINTAINED AT ALL TIMES FROM EVERY EXIT DOOR DURING CONSTRUCTION. IF IT IS ABSOLUTELY NECESSARY TO BLOCK THESE AREAS IN ORDER TO DO SPECIFIC WORK, THE WORK MUST BE PERFORMED BEFORE OR AFTER NORMAL WORKING HOURS. IN ADDITION, STAFF A PERSON AT EACH OF THE AREAS FOR THE SPECIFIC PURPOSE OF DIRECTING TRAFFIC.
  - ALL EXISTING SECURITY AND FIRE ALARM SYSTEMS, WATER, SEWER, IRRIGATION LINES, STEAM PIPING, SPEAKER, ELECTRICAL, CABLE, AND DATA WIRING MUST BE MAINTAINED AT ALL TIMES. IF DAMAGED, IT MUST BE REPAIRED AND MADE OPERATIONAL BEFORE LEAVING FOR THE DAY. INFORM OWNER'S REPRESENTATIVE A MINIMUM OF 5 DAYS IN ADVANCE OF ANY KNOWN PERIODS WHERE SYSTEMS WILL BE INOPERABLE. ALL KNOWN DISRUPTIONS ARE TO BE SCHEDULED FOR TIMES BEFORE OR AFTER NORMAL WORKING HOURS.
  - PEDESTRIAN PROTECTION IS TO BE PROVIDED PER IBC TABLE 3306.1. SEE TABLE BELOW.
  - ADJUST SECURITY FENCE LOCATION AS NEEDED TO PROMOTE CONSTRUCTION. DO NOT BLOCK PEDESTRIAN OR VEHICULAR ACCESS.
  - PROVIDE ADEQUATE SIGNAGE TO DIRECT AND INFORM PEDESTRIAN TRAFFIC AT ALL TIMES.
  - PEDESTRIAN TRAFFIC SHALL BE PROTECTED BY A DIRECTIONAL BARRICADE, WHERE THE PEDESTRIAN WALKWAY EXTENDS INTO THE STREET. THE DIRECTIONAL BARRICADE SHALL BE OF SUFFICIENT SIZE AND CONSTRUCTION TO DIRECT VEHICULAR TRAFFIC AWAY FROM THE PEDESTRIAN PATH.
  - COMPLY WITH ALL CONSTRUCTION SAFEGUARD REQUIREMENTS OF IBC 2018, CHAPTER 33, LOCAL AHJ, AND SC OSE FOR THE ENTIRE DURATION OF THE PROJECT.

### PROTECTION OF PEDESTRIANS

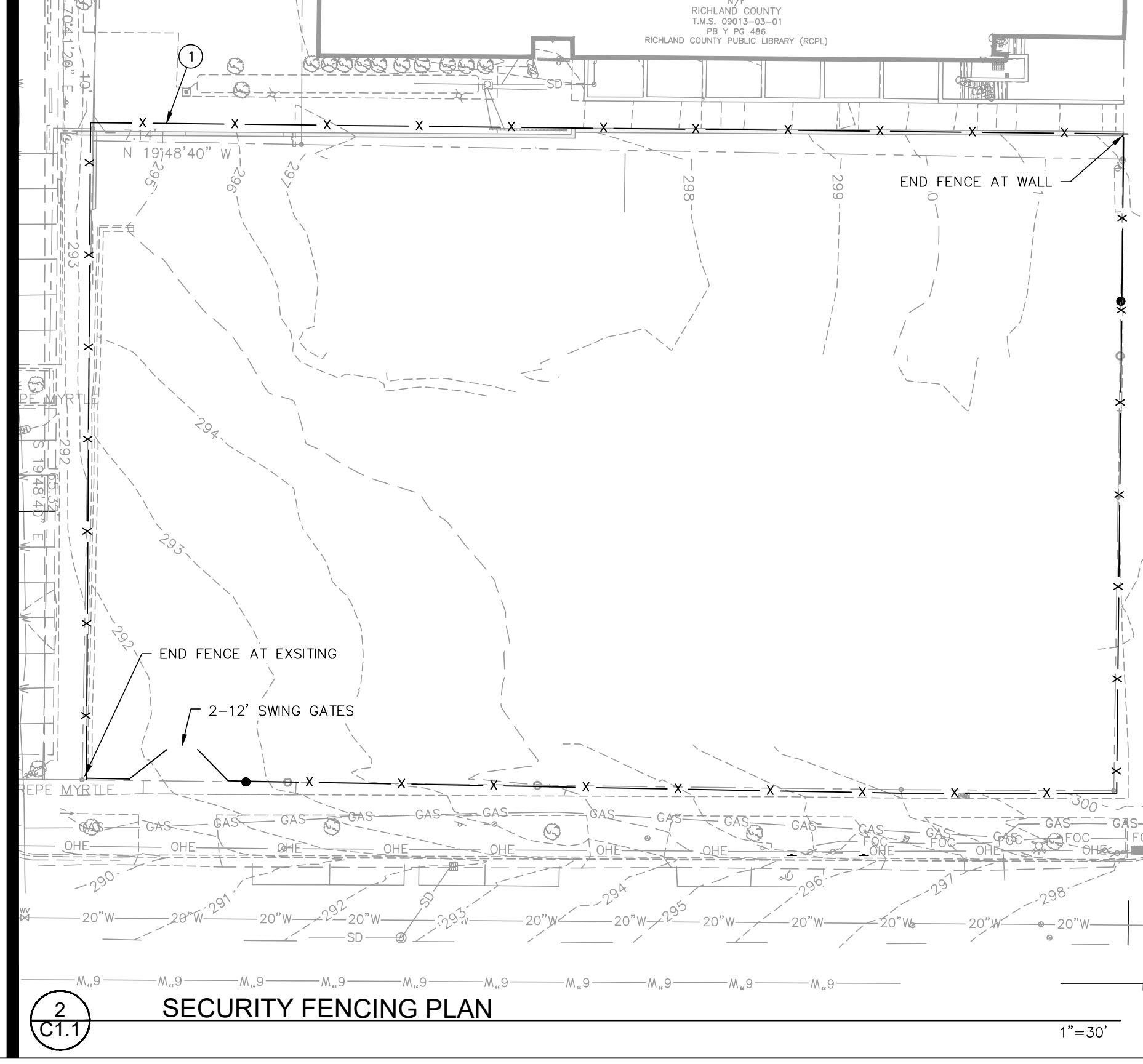
HEIGHT OF CONSTRUCTION	DISTANCE FROM CONSTRUCTION TO LOT LINE	TYPE OF PROTECTION REQUIRED
8 FEET OR LESS	LESS THAN 5 FEET	CONSTRUCTION RAILINGS
	5 FEET OR MORE	NONE
MORE THAN 8 FEET	LESS THAN 5 FEET	BARRIER AND COVERED WALKWAY
	5 FEET OR MORE, BUT NOT MORE THAN ONE-FOURTH THE HEIGHT OF CONSTRUCTION	BARRIER AND COVERED WALKWAY
	5 FEET OR MORE, BUT BETWEEN ONE-FOURTH AND ONE-HALF THE HEIGHT OF CONSTRUCTION	BARRIER
	5 FEET OR MORE, BUT EXCEEDING ONE-HALF THE HEIGHT OF CONSTRUCTION	NONE

### VEHICULAR AND PEDESTRIAN CONTROL NOTES

- THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBIA POLICE DEPARTMENT - TRAFFIC CONTROL DIVISION PRIOR TO BEGINNING DEMOLITION. CONTACT THOMAS GOONS (803-545-3790).

### KEY NOTES

- INSTALL SECURITY FENCE 2' FROM RETAINING WALL (NORTH FACE). COORDINATE WITH LIBRARY ON CONTIGUOUS PEDESTRIAN ACCESS.



**CLAYCO**  
 THE ART & SCIENCE OF BUILDING  
 2199 INTERBELT BUSINESS CENTER DRIVE  
 ST. LOUIS, MISSOURI 63114  
 PH: 314.429.3137

**Lamar Johnson Collaborative**  
 2199 INTERBELT BUSINESS CENTER DRIVE  
 ST. LOUIS, MISSOURI 63114  
 PH: 314.429.3137

**ADC ENGINEERING**  
 708 BRAD RIVER ROAD  
 RICHMOND, VA 23261  
 803.761.8100  
 ADCPROJECTS@ADCENGINEERING.COM  
 ADC PROJECT # 2193

**Professional Engineer**  
 No. 15390  
 06/30/2021

**NGBS SILVER**

**THE STANDARD AT COLUMBIA**  
 1401 ASSEMBLY STREET  
 COLUMBIA, SOUTH CAROLINA 29201

DRAWING ISSUE

DESCRIPTION	DATE
ISSUED FOR PERMIT	06-30-2021

DRAWING TITLE  
 OVERALL EXISTING CONDITIONS  
 AND DEMOLITION PLAN /  
 SECURITY FENCING PLAN  
 DRAWING NO.  
**C1.1**  
 Job # 25.002264.000













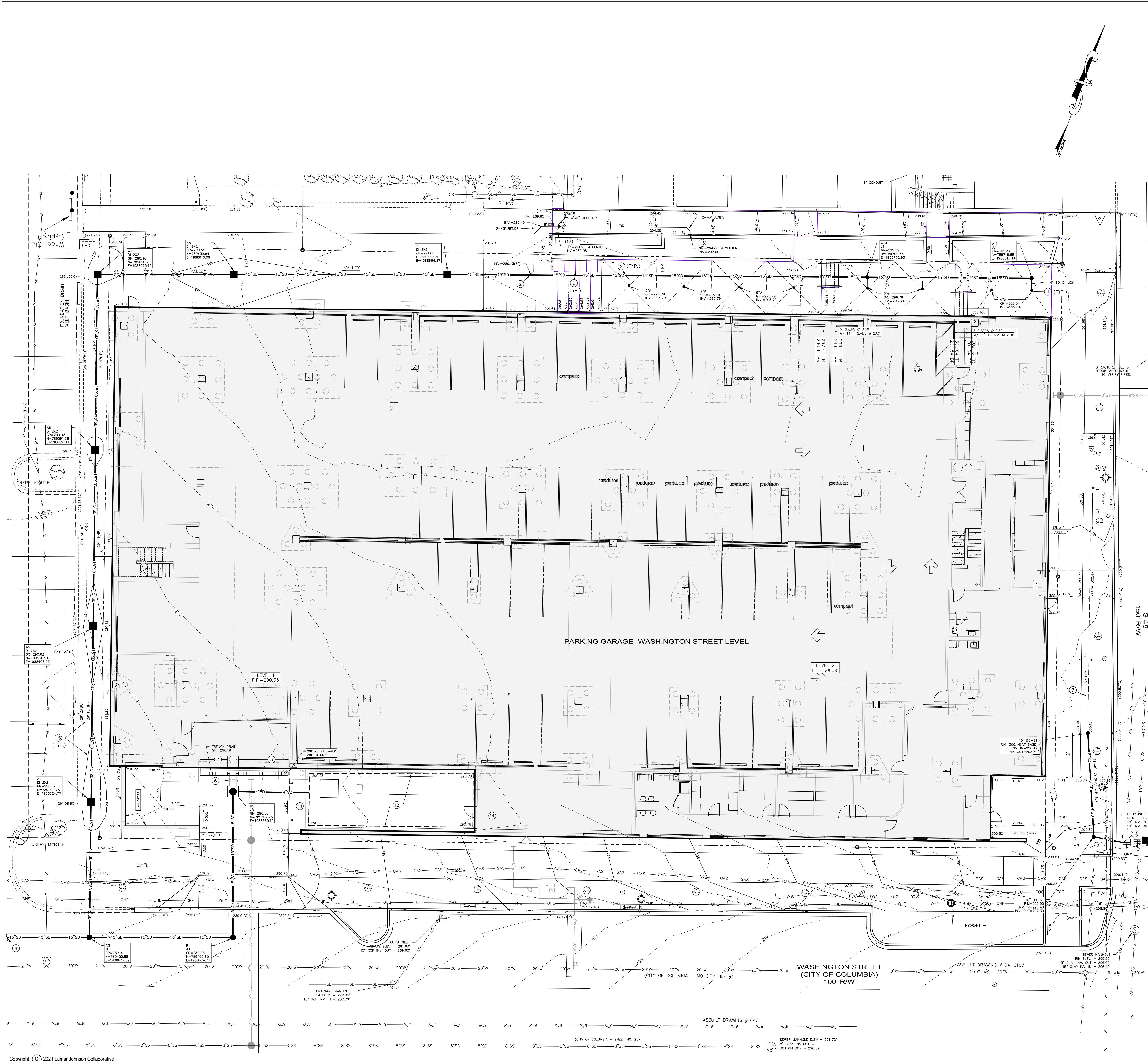












### LEGEND

NEW	EXISTING	DESCRIPTION
N/A	N/A	BENCHMARK/CONTROL POINT
N/A	N/A	PROPERTY LINE
N/A	N/A	BUILDING
N/A	N/A	TREE
N/A	N/A	CONTOUR
N/A	N/A	SPOT ELEVATION
N/A	N/A	FIRE HYDRANT
N/A	N/A	LIGHT POLE
N/A	N/A	WATER VALVE
N/A	N/A	WATER METER
N/A	N/A	WATER MAIN/SERVICE
N/A	N/A	STORM DRAIN LINE w/STRUCTURE
N/A	N/A	SANITARY SEWER LINE w/MANHOLE
N/A	N/A	SANITARY SEWER CLEANOUT
N/A	N/A	CHAIN LINK FENCE
N/A	N/A	KEY NOTE REFERENCE

### GENERAL NOTES

1. SEE SHEET C1.1 FOR ADDITIONAL GENERAL NOTES.

- ### KEY NOTES
- INSTALL ZURN AREA DRAIN MODEL 2551. SEE DETAIL.
  - CONNECT ALL 4" STORM DRAIN LINES TO 15" STORM LINE USING AN INSERT.
  - INSTALL ACO TRENCH DRAIN S300K SLOPED CHANNEL UNITS NO. 38 THROUGH 40. CONNECT UNIT 40 TO CONSTANT DEPTH CHANNEL.
  - INSTALL ACO TRENCH DRAIN MODEL S300K CONSTANT DEPTH CHANNEL (PART NO. 69048) IN THE CENTER OF TRENCH DRAIN. INSTALL CATCH BASIN S24-90SD UNDER TRENCH DRAIN UNIT. COORDINATE WITH MANUFACTURER REP PRIOR TO PURCHASE TO CONFIRM (JOHN WOLSTENHOLME 980-244-1748).
  - INSTALL ACO TRENCH DRAIN S300K SLOPED CHANNEL UNITS NO. 37 THROUGH NO. 40. CONNECT UNIT 40 CONSTANT DEPTH CHANNEL.
  - INSTALL 6" AND 12" STORM DRAIN LINES. EXTEND 6" AND 8" PVC (SCH 40) PIPE FROM TRENCH DRAIN CATCH BASIN TO STRUCTURE S2 ON A MINIMUM 1.0% SLOPE. CONNECT 12" ROOF DRAIN FROM BUILDING TO STRUCTURE B2.
  - INSTALL FRENCH DRAIN ALONG VALLEY. CONNECT TO DRAIN BASIN.
  - CONNECT 8" STORM DRAIN TO EXISTING STRUCTURE. CUT PIPE FLUSH WITH INSIDE FACE.
  - INSTALL 6" STEP. COORDINATE WITH LANDSCAPE ARCHITECTURE PLANS FOR ADDITIONAL INFORMATION.
  - CONNECT NEW 6" STORM DRAIN TO EXISTING STRUCTURE. CUT PIPE FLUSH WITH INSIDE FACE OF STRUCTURE.
  - SIDEWALK REMAINS LEVEL AS DRIVING SLOPES TO TRENCH DRAIN.
  - INSTALL FRENCH DRAIN AROUND PERIMETER OF MECHANICAL YARD. CONNECT FRENCH DRAIN TO STRUCTURE A4 WITH 4" PVC (SCH 40) PIPE ON A MINIMUM 1.0% SLOPE. SEE DETAIL.
  - INSTALL ZURN DRAIN MODEL 2575 FLUSH AGAINST WALL AND 12" FROM LANDING. CONNECT 4" DISCHARGE LINE TO DRAIN AND EXTEND LINE AS INDICATED.
  - SEE ARCHITECTURAL PLANS FOR GRADE ADJUSTMENT FROM 290.78 IN MECHANICAL YARD TO 290.33 INSIDE BUILDING.
  - GRADE DRAINAGE SWALES AS INDICATED BETWEEN STRUCTURES A4 TO A7 WITH HIGH POINT CENTERED BETWEEN STRUCTURES.

- ### PIPING NOTES - STORM
- ALL STORM DRAIN LINES 12" AND LARGER SHALL BE HP STORM DUAL WALL POLYPROPYLENE PIPE BY ADS (OR APPROVED EQUAL), OR RCP CLASS III UNLESS OTHERWISE INDICATED.
  - ALL ROOF DRAIN LINES SHALL BE HDPE N12 WITH WATERTIGHT JOINTS.
  - THE CONTRACTOR HAS THE OPTION OF USING RCP OR HDPE PIPE FOR ALL STORM DRAINAGE LINES.

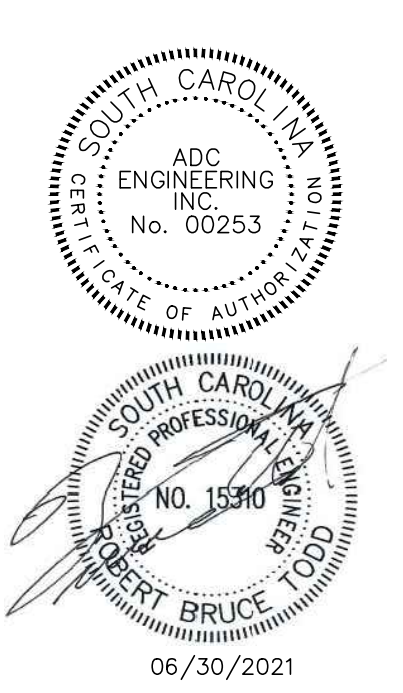
### SPECIAL NOTE

1. CONTACT STEVE SULLIVAN (803-622-5314) PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION ACTIVITIES ON THE RCPL PROPERTY.

- ### GRADING NOTES
- DURING CONSTRUCTION AND UNTIL TURF IS ESTABLISHED, USE THE SILT FENCE STORM INLET SEDIMENT TRAP SHOWN ON DETAIL SHEET AROUND ALL INLETS AND PLACE AND MAINTAIN SILT FENCES AS REQUIRED TO PREVENT EROSION AND SEDIMENTATION RUNOFF.
  - 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.
  - THE CONSTRUCTION OF ALL STREETS & DRAINAGE FACILITIES SHALL BE GOVERNED BY RICHLAND COUNTY STANDARD SPECIFICATIONS & SCDDOT STANDARD SPECIFICATIONS LATEST EDITION.
  - CONTRACTOR SHALL USE THE INLET SEDIMENT PROTECTION ON ALL INLETS UNTIL THE AREA DRAINING TO THE INLET HAS BEEN STABILIZED.
  - ALL FILL AREAS TO BE COMPACTED AS RECOMMENDED IN THE GEOTECHNICAL REPORT AND/OR SPECS.
  - CONTRACTOR TO INSTALL ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED BY RICHLAND COUNTY OR SCDEHC.
  - 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 CLEANED, GRAZED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY CONSTRUCTION.
  - CONTRACTOR TO REPAIR ANY DAMAGE DONE TO EXISTING PAVEMENT, FENCING, ETC. DUE TO CONSTRUCTION ENTIRELY AT HIS EXPENSE.
  - 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.
  - 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.
  - ALL UNDERGROUND LOCATIONS ARE APPROXIMATE PER DRAWINGS AND LOCATIONS SUPPLIED BY VARIOUS UTILITY COMPANIES.
  - SEE SOILS REPORT FOR RECOMMENDATIONS AND CONDITIONS OF EXISTING SOILS.
  - ALL DEMOLISHED ITEMS TO BE REMOVED FROM SITE AND DISPOSED OF IN LEGAL MANNER.
  - ALL STORM WATER PONDS, OUTLET STRUCTURES, AND PIPING TO BE SURVEYED BY A REGISTERED LAND SURVEYOR AND SENT TO ENGINEER TO VERIFY DESIGN PERFORMANCE AND PREPARATION FOR FINAL PROJECT CLOSEOUT WITH RICHLAND COUNTY AND SCDEHC.
  - ALL STORM WATER PIPING TO BE CAMERA INSPECTED A MIN. 30 DAYS AFTER INSTALLATION TO INSURE PROPER INSTALLATION. PROVIDE COPY OF DID TO ENGINEER AND OWNER FOR REVIEW. REPAIR ANY PIPE NOT PROPERLY INSTALLED AT NO ADDITIONAL COST TO OWNER.

### GRAPHIC SCALE

( IN FEET )  
1 inch = 10 ft.

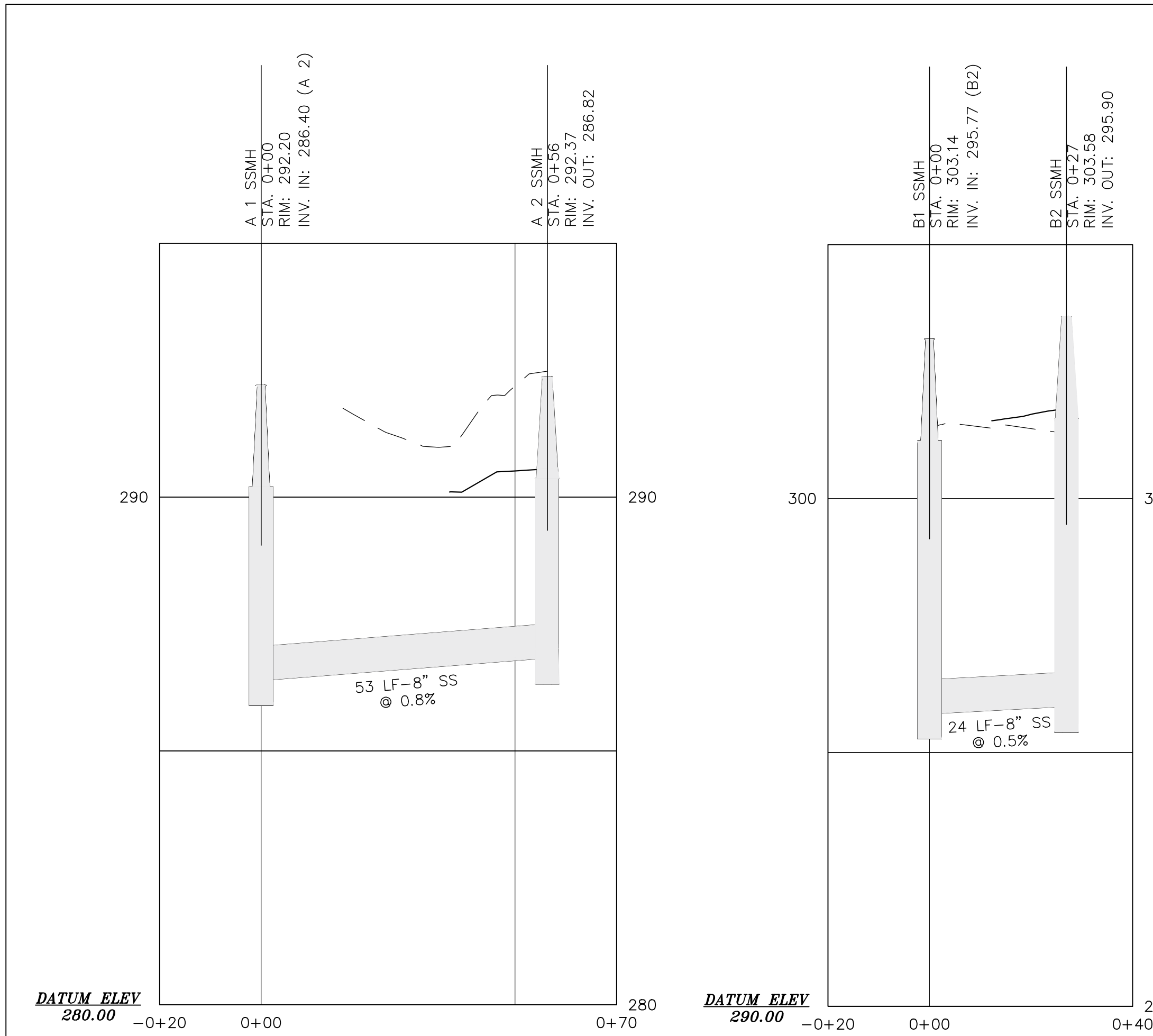


06/30/2021

NGBS SILVER

DRAWING TITLE	
ENLARGED GRADING AND DRAINAGE PLAN	
DRAWING NO.	C3.2
Job #	25.002264.000





**SS LINE A**  
Sta. -0+20.00-0+70.00  
SCALE  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

**SS LINE B**  
Sta. -0+20.00-0+40.00  
SCALE  
HORIZONTAL: 1" = 40'  
VERTICAL: 1" = 4'

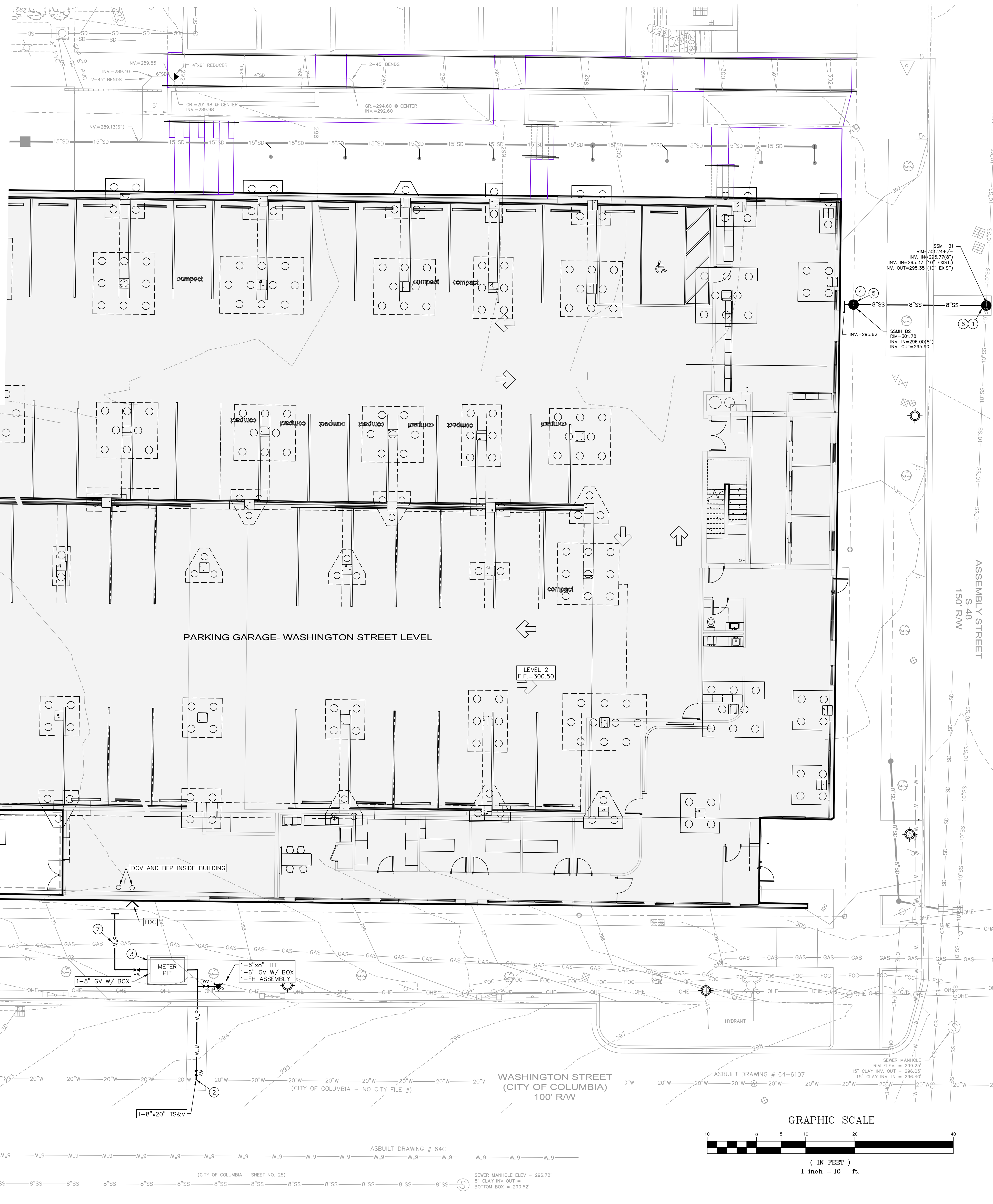
LEGEND		
NEW	EXISTING	DESCRIPTION
N/A	N/A	BENCHMARK/CONTROL POINT
N/A	N/A	PROPERTY LINE
N/A	N/A	BUILDING
N/A	N/A	TREE
N/A	N/A	CONTOUR
N/A	N/A	SPOT ELEVATION
N/A	N/A	FIRE HYDRANT
N/A	N/A	LIGHT POLE
N/A	N/A	WATER VALVE
N/A	N/A	WATER METER
N/A	N/A	WATER MAIN/SERVICE
N/A	N/A	STORM DRAIN LINE W/STRUCTURE
N/A	N/A	SANITARY SEWER LINE W/MANHOLE
N/A	N/A	SANITARY SEWER CLEANOUT
N/A	N/A	CHAIN LINK FENCE
N/A	N/A	KEY NOTE REFERENCE

**GENERAL NOTES**

- SEE SHEET C1.1 FOR ADDITIONAL GENERAL NOTES.

**KEY NOTES**

- CONSTRUCT "DOGHOUSE" MANHOLE OVER EXISTING SEWER MAIN, CUT EXISTING PIPES FLUSH WITH INSIDE FACE OF MANHOLE. MANHOLE TO BE CONSTRUCTED AND TURNKEY WORK COMPLETED BY CITY OF COLUMBIA APPROVED PLUMBING CONTRACTOR.
- CITY OF COLUMBIA APPROVED PLUMBING CONTRACTOR TO MAKE TAP ON WATERLINE.
- PIT FOR FIRE/DOMESTIC METER (8") PIT PROVIDED AND INSTALLED BY CONTRACTOR. METER AND VALVING PROVIDED BY THE CITY OF COLUMBIA AND INSTALLED BY CITY APPROVED PLUMBING CONTRACTOR. (OWNER PAYS CITY OF COLUMBIA FOR METER, CITY OF COLUMBIA THEN PROVIDES METER TO CONTRACTOR. METER THEN INSTALLED BY CITY OF COLUMBIA APPROVED PLUMBING CONTRACTOR). PIT OS TO BE MASONRY VAULT WITH 3/4" FLOOR PLATE STEEL ON NON-SKID SURFACE PAINTED BLACK WITH 24"x24" INSPECTOR LID WITH RECESSED HANDLE. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON PIT TO ENGINEER PRIOR TO CONSTRUCTION.
- INSTALL MANHOLE AT PROPERTY LINE.
- CONNECT 8" SANITARY SEWER FROM BUILDING TO MANHOLE.
- CONTRACTOR TO CONFIRM INVERT ELEVATIONS ON EXISTING SEWER MAIN PRIOR TO CONSTRUCTION. COORDINATE INFORMATION WITH ENGINEER.
- CONTRACTOR TO COORDINATE WITH UTILITY OWNER ON ADJUSTING EXISTING GAS LINE AS NEEDED TO ACCOMMODATE NEW WATER AND SEWER SERVICES.



**PIPING NOTES - WATER AND SEWER**

- ALL SANITARY SEWER LINES ARE PVC-SDR35 UNLESS OTHERWISE INDICATED.
- ALL SANITARY SEWER LINES SHALL BE INSTALLED ON A MINIMUM 1.0% SLOPE UNLESS OTHERWISE INDICATED.
- ALL WATERLINE BENDS AND TEES SHALL BE CONNECTED TO LINE USING MEGALUG RESTRAINED JOINTS OR APPROVED EQUAL.
- ALL WATER LINES ARE DIP UNLESS OTHERWISE INDICATED.
- FDC LINES SHALL BE DIP.

**SPECIAL NOTE**

- CONTACT STEVE SULLIVAN (603-622-5314) PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION ACTIVITIES ON THE R/W PROPERTY.

**UTILITY CLOSE-OUT INFORMATION (WATER AND SEWER)**

RECORD DRAWINGS, TESTS, AND ANALYSES OF INSTALLED WATER AND SANITARY SEWER SYSTEMS ARE REQUIRED AT PROJECT CLOSE-OUT.

- RECORD DRAWINGS OF THE INSTALLED SYSTEMS, AS WELL AS RESULTS OF ALL HYDROSTATIC TESTS MUST BE PROVIDED TO THE ENGINEER PRIOR TO PLACING THE SYSTEM ONLINE. THE CONTRACTOR SHALL PROVIDE A COMPLETE RECORD OF THE INSTALLED SYSTEMS AND THE RESULTS OF THE TESTING AND ANALYSIS TO THE ENGINEER.
- RECORD DRAWINGS SHALL BE A COMPLETE SET OF INFORMATION INDICATING THE LOCATIONS OF LINES AND APPURTENANCES. THE DRAWINGS SHALL GIVE ACCURATE LOCATIONS OF INSTALLED LINES AND APPURTENANCES BY THE USE OF IN SC STATE PLANE COORDINATES AND REFERENCES TO PERMANENT SITE FEATURES. FOR ACCURATE LOCATION OF THE LINES AND APPURTENANCES, THE DRAWINGS MUST SHOW TWO MEASURED DISTANCES FROM BENDS, VALVES, MANHOLES, HYDRANTS, AND TO PERMANENT SITE FEATURES (BUILDING CORNERS, POWER POLES, PAVEMENT EDGE, DRAINAGE STRUCTURES, ETC.). THIS INFORMATION MUST BE PROVIDED TO THE ENGINEER IN ELECTRONIC FORMAT (AUTOCAD 2015). SWING TEES SHALL BE NO LONGER THAN 150'.
- HYDROSTATIC TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE ENGINEER OR THE OWNER.
- UNDER NO CIRCUMSTANCES WILL ANY PORTION OF THE WORK BE PLACED IN SERVICE WITHOUT THE APPROVAL TO PLACE THE SYSTEM INTO OPERATION FROM ENGINEER.

**UTILITY NOTES:**

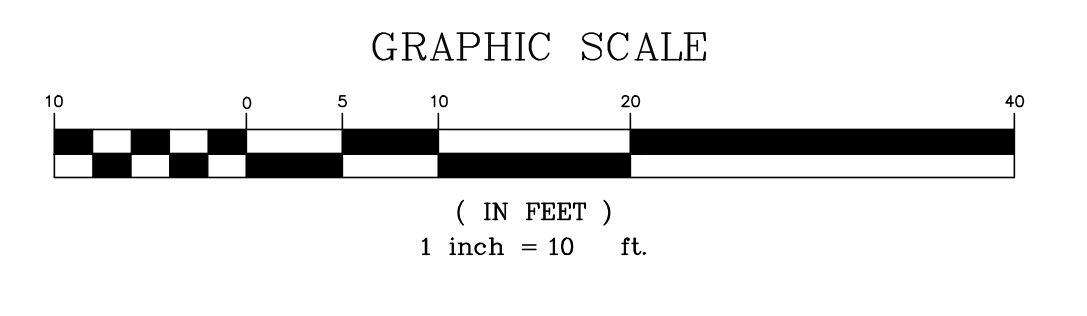
- ALL UNDERGROUND LOCATIONS ARE APPROXIMATE PER DRAWINGS AND LOCATIONS SUPPLIED BY VARIOUS UTILITY COMPANIES.
- CONTRACTOR MUST VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION. 72 HOURS BEFORE COMMENCING CONSTRUCTION CONTACT P.U.L.S. AT 811 FOR UNDERGROUND LOCATIONS LOCATION.
- ALL WATER TAP FEES SHALL BE THE RESPONSIBILITY OF THE OWNER. CONTRACTOR SHALL OBTAIN PAYMENT BY OWNER FOR ALL TAPPING OF EXISTING WATERLINES WITH THE CITY OF COLUMBIA UTILITY DEPARTMENT.
- THE MATERIALS AND CONSTRUCTION OF ALL WATER SYSTEM FACILITIES IN THIS PROJECT SHALL BE GOVERNED BY THE CITY OF COLUMBIA STANDARD SPECIFICATIONS.
- NO CONSTRUCTION ALLOWED UNTIL CONSTRUCTION PERMITS RECEIVED FROM CITY OF COLUMBIA AND S.C.D.H.E.C.
- NO USAGE ALLOWED UNTIL OPERATION PERMITS RECEIVED FROM CITY OF COLUMBIA AND S.C.D.H.E.C.
- CONTRACTOR TO PROVIDE THRUST BLOCKING OR MECHANICAL RESTRAINT ON WATER LINES AT ANY BEND, TEE, OR CHANGE IN DIRECTION IN THE LINES WHETHER SHOWN OR OMITTED ON THE PLANS.
- NOTIFY THE CITY OF COLUMBIA 48 HOURS BEFORE COMMENCING CONSTRUCTION AND HOLD PRE-CONSTRUCTION CONFERENCE AT SITE PRIOR TO BEGINNING.
- PROVIDE A TEMPORARY STONE SPLASH PAD AT ALL FIRE HYDRANTS OR OTHER POINTS OF DISCHARGE DURING TESTING OF WATER DISTRIBUTION SYSTEM.
- WHERE PVC OR POLYETHYLENE PIPE IS USED IN WATER MAIN CONSTRUCTION, A CONTINUOUS #12 GAUGE BLUE INSULATED COPPER TRACER WIRE, APPROVED BY THE MANUFACTURER FOR DIRECT BURIAL, SHALL BE INSTALLED IN THE TRENCH A MINIMUM 6" ABOVE THE TOP OF THE WATER LINE. THE TRACER WIRE SHALL TERMINATE AT EACH VALVE OR METER AND TRACKING PIPE AND PREVENT INTERFERENCE OF OPERATING THE VALVE OR METER.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES AS MAY BE REQUIRED. DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY CONSTRUCTION.
- WATER MAINS THAT ARE CONSTRUCTED ADJACENT TO ROADS MUST BE INSTALLED A MINIMUM OF 36 INCHES ABOVE THE ELEVATION OF THE EDGE OF ROADWAY. A MINIMUM OF 36 INCHES OF COVER MUST BE PROVIDED OVER THE MAINS.
- ALL WATERMAIN 4" TO 8" TO BE AWWA C900 DR 18 PVC.
- ON ALL FIRE LINE CONSTRUCTION, CONTRACTOR TO COMPLETE NFPA 24 CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING TO ENGINEER AFTER TESTING AND INSTALLATION.
- ALL FIRE LINE WATER MAIN CONSTRUCTION TO BE IN ACCORDANCE WITH NFPA 24, LATEST.
- ALL VALVES AND FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT WITH PRESSURE RATINGS OF 350 PSI.
- CONTRACTOR SHALL VERIFY ALL RIM ELEVATIONS PRIOR TO CONSTRUCTION TO ENSURE A MINIMUM 3" PROJECTION OF RIM ABOVE FINISHED GRADE ELEVATION EXCEPT IN ROAD. CONTRACTOR SHALL INSURE THAT ALL MANHOLES LOCATED IN ROAD TO BE FLUSH WITH PROPOSED GRADE. CONTRACTOR TO ADJUST ANY EXISTING RIM TO MEET STANDARDS.
- SEWER LINES AND MAINS SHALL CONFORM TO "10 STATES STANDARD" SECTION 29.3, AT A MINIMUM (RELATION TO WATER LINES).
- ALL SEWER PIPES, UNLESS OTHERWISE NOTED, SHALL BE PVC AND MUST BE INSTALLED IN ACCORDANCE WITH ASTM D-2321, LATEST EDITION.
- ALL DISTURBED UTILITY ROUTES TO BE SEED AS SOON AS PRACTICALLY POSSIBLE UPON COMPLETION OF CONSTRUCTION IN THAT AREA.
- ALL MANHOLES WITHIN THE ONE HUNDRED YEAR FLOOD PLAIN OR IN ROAD TO HAVE WATER TIGHT MANHOLE COVERS.
- ALL SANITARY SEWER LATERALS TO BE SDR 35 PVC UNLESS OTHERWISE NOTED.
- ANY PAVEMENT OR HARD SURFACE REMOVAL NECESSARY FOR UTILITY CONSTRUCTION TO BE REPAIRED OR REPLACED WHETHER SHOWN OR OMITTED ON THE PLANS.
- CONTRACTOR TO STERILIZE AND PRESSURE TEST ALL WATER MAINS ACCORDING TO SDG&EC REQUIREMENTS AND CITY OF COLUMBIA STANDARDS.
- CONTRACTOR TO PROVIDE RECORD DRAWINGS AFTER UTILITY CONSTRUCTION REFLECTING LOCATIONS OF ALL STRUCTURES AND ANY INSTALLED BENDS, ETC. UTILITIES TO BE SURVEYED BY A REGISTERED LAND SURVEYOR AND A DIGITAL FILE PROVIDED TO THE ENGINEER FOR PREPARATION OF ASBUILTS AND FINAL INSPECTIONS WITH SDG&EC. REDLINED UTILITY DRAWINGS WILL NOT BE ACCEPTABLE.
- INSTALL MAIN LINE VALVES WHERE INDICATED.

**LATERAL SEPARATION NOTES**

LATERAL SEPARATION OF SEWERS AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT LATERAL SEPARATION. IN WHICH CASE: THE WATER MAIN IS LAID IN A SEPARATE TRENCH WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. OR THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

**CROSSING NOTES**

- CROSSING A WATER MAIN OVER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PRESENT AN 18 INCH VERTICAL SEPARATION; IN WHICH CASE, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- CROSSING A WATER MAIN UNDER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND IN JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.



ASBUILT DRAWING # 64C  
CITY OF COLUMBIA - SHEET NO. 25  
SEWER MANHOLE ELEV = 296.72  
8" SLAY INV. OUT =  
BOTTOM BOX = 290.52

**CLAYCO**  
THE ART & SCIENCE OF BUILDING  
2400 INHERIT BUSINESS CENTER DRIVE  
ST. LOUIS, MISSOURI 63114  
PH: 314.429.5100 F: 314.429.3137

**Lamar Johnson Collaborative**  
2100 INHERIT BUSINESS CENTER DRIVE  
ST. LOUIS, MISSOURI 63114  
PH: 314.429.5100

**ADC ENGINEERING**  
100 BRAD RIVER ROAD  
SUITE 101  
ST. LOUIS, MISSOURI 63114  
PH: 314.429.5100  
ADC PROJECT # 2021

**NGBS SILVER**

**THE STANDARD AT COLUMBIA**  
1401 ASSEMBLY STREET  
COLUMBIA, SOUTH CAROLINA 29201

DRAWING ISSUE

DESCRIPTION	DATE
ISSUED FOR PERMIT	06-30-2021

DRAWING TITLE  
ENLARGED UTILITY PLAN

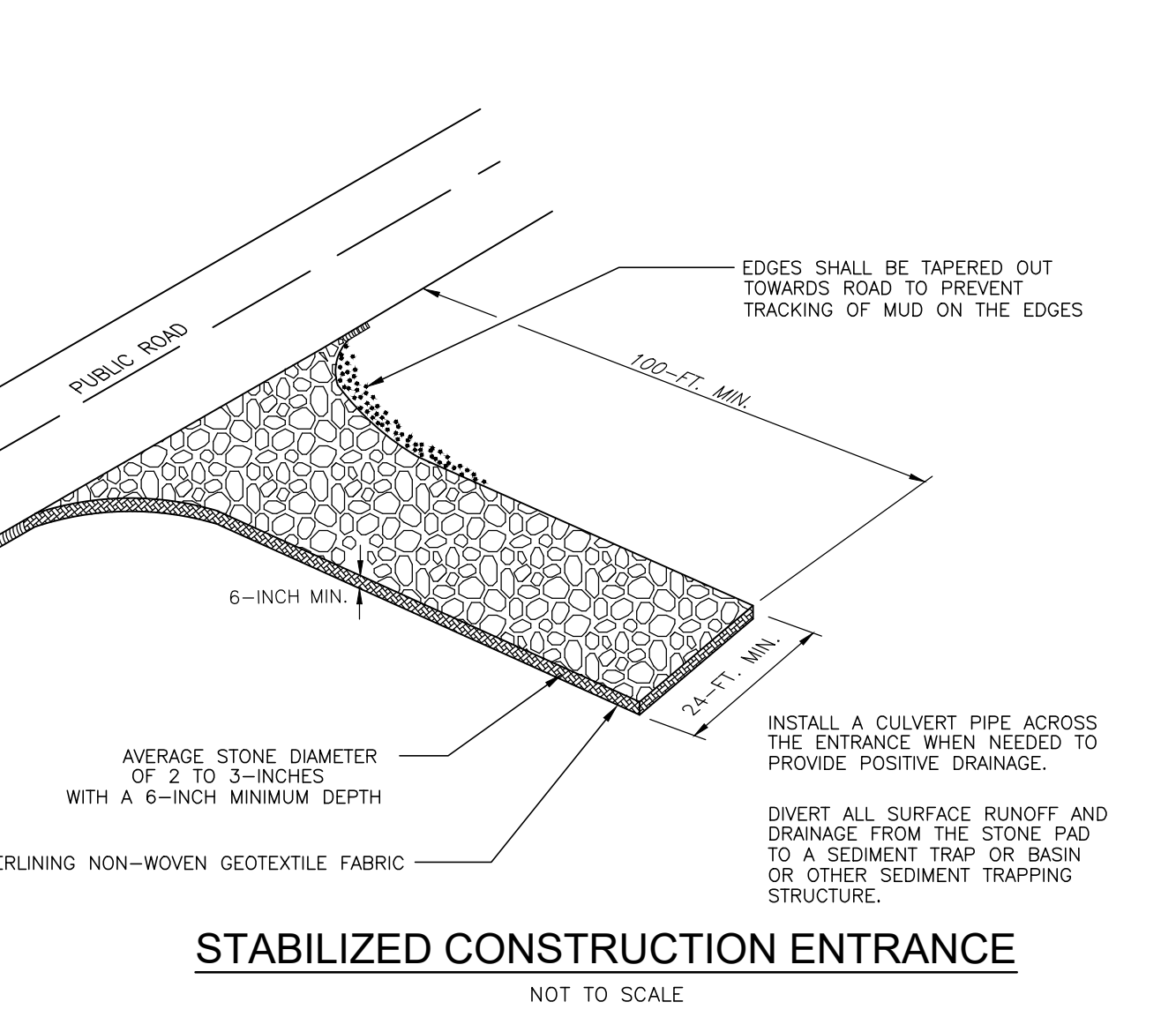
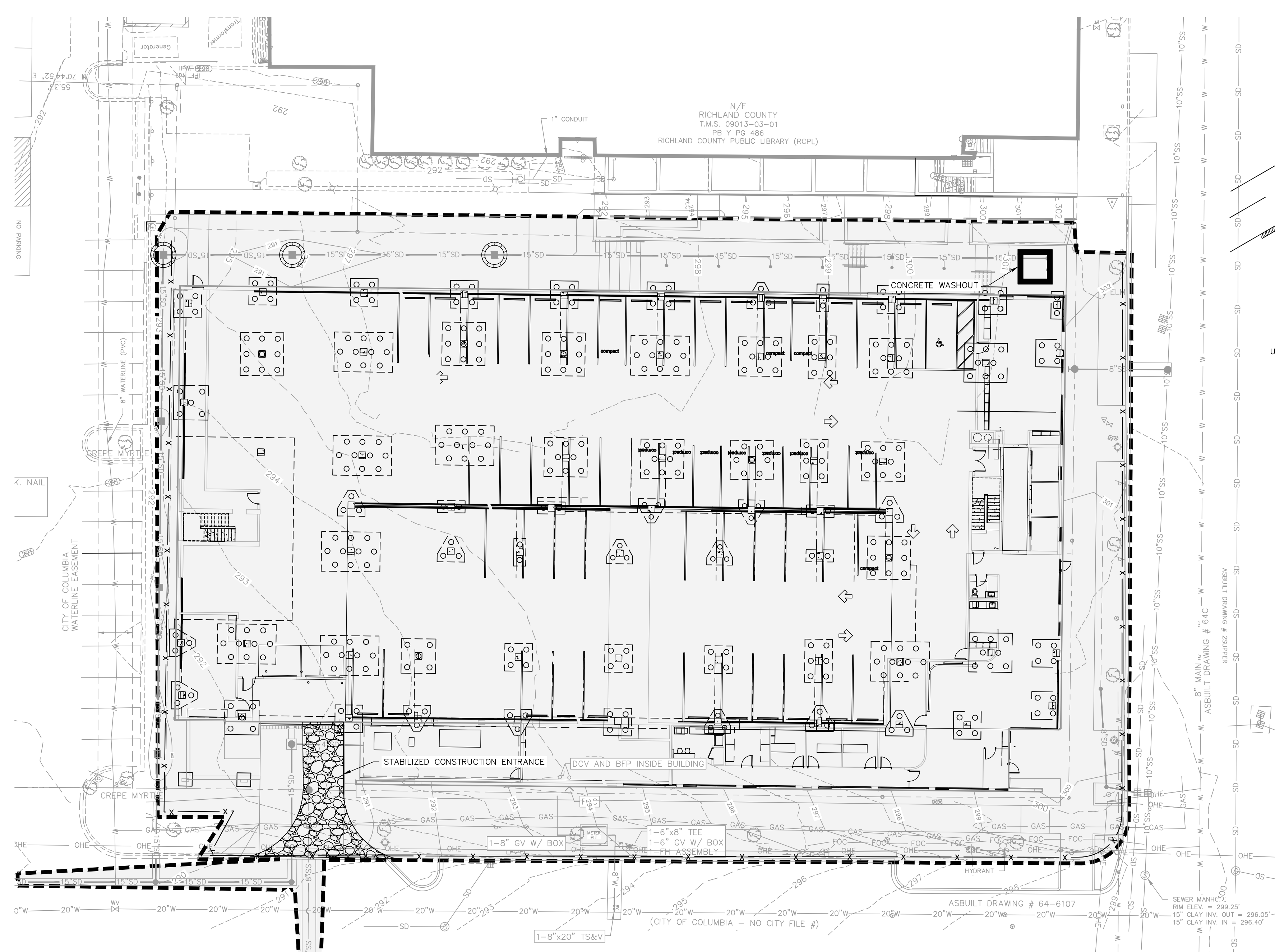
DRAWING NO.  
**C3.3**

Job # | 25.002264.000









**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE

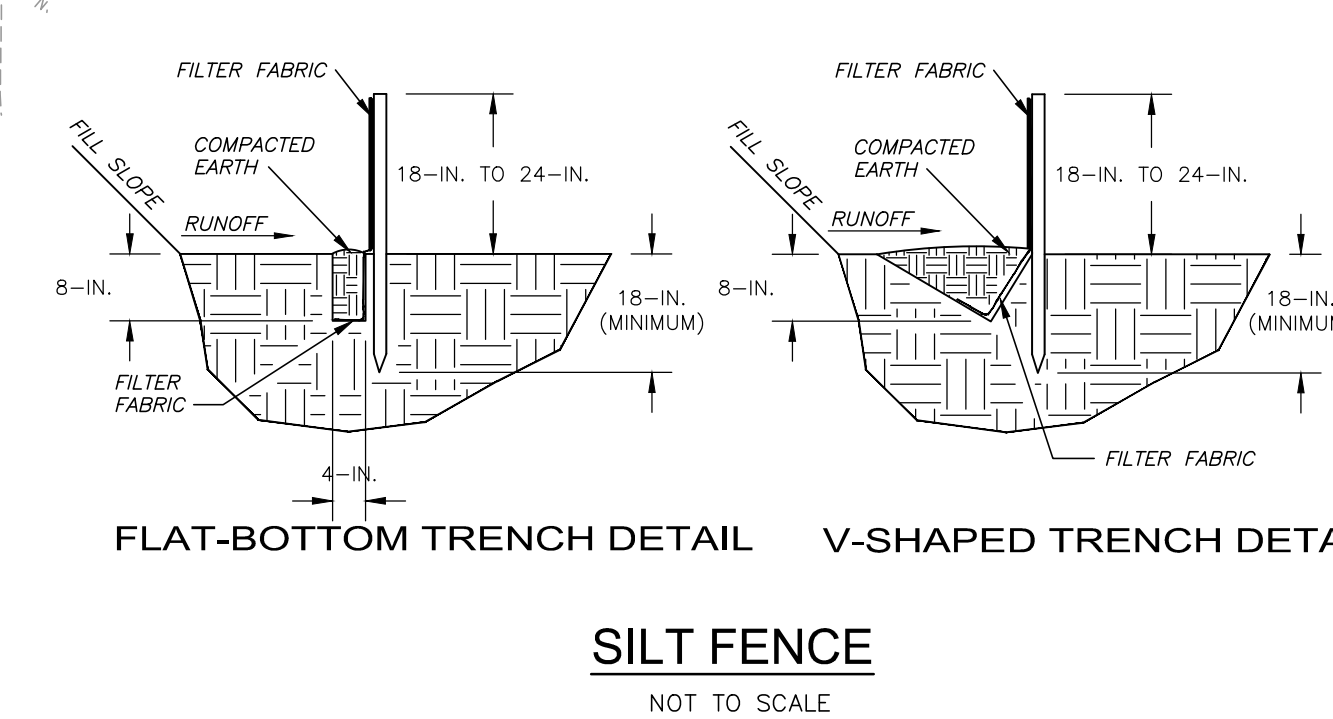
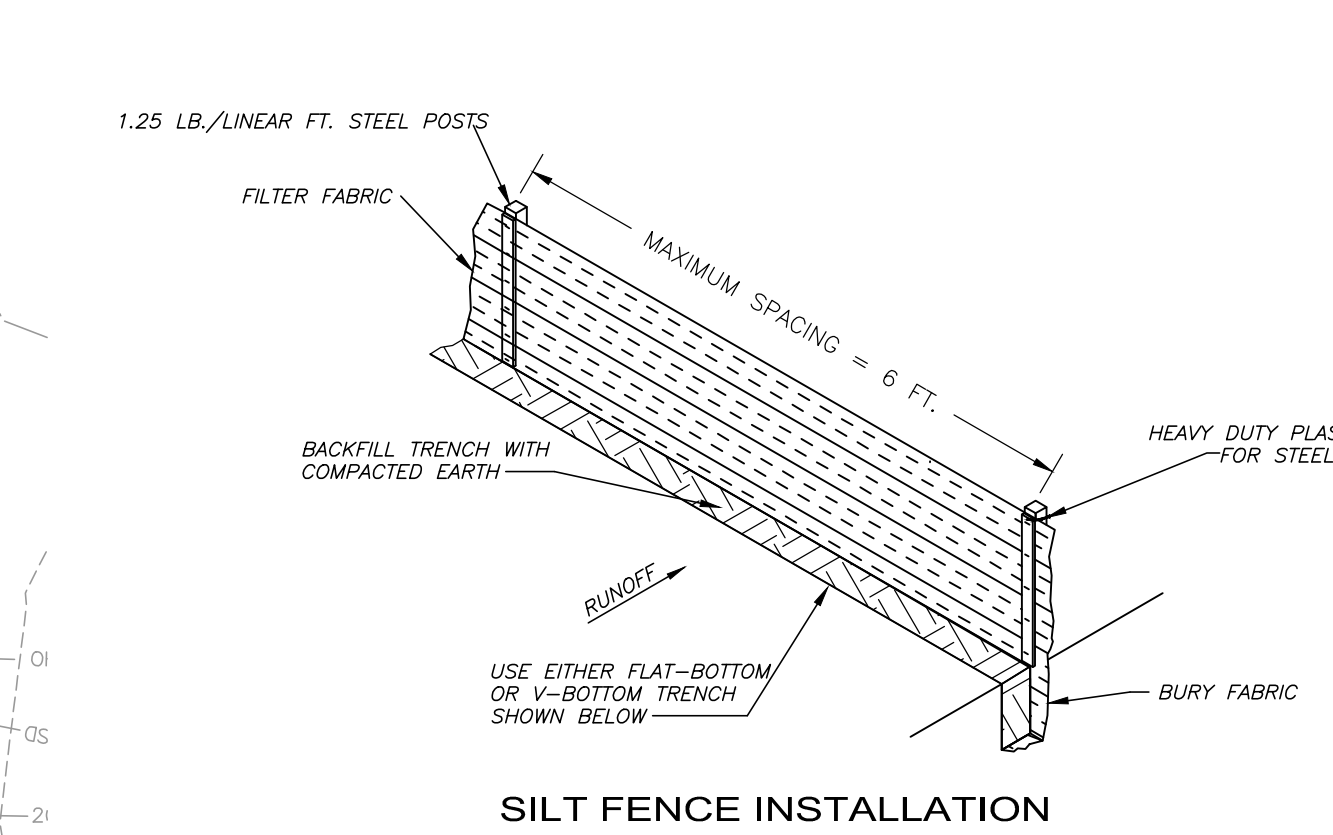
**Inspection and Maintenance of Construction Entrance**

All sediment and erosion control devices shall be inspected at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater, or after heavy use. Check for mud and sediment buildup and pad integrity. Make daily inspections during periods of wet weather. Maintenance is required more frequently in wet weather conditions. Reshape the stone pad as needed for drainage and runoff control.

Wash or replace stones as needed and as directed by the inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone.

Immediately remove mud and sediment tracked or washed onto public roads by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.

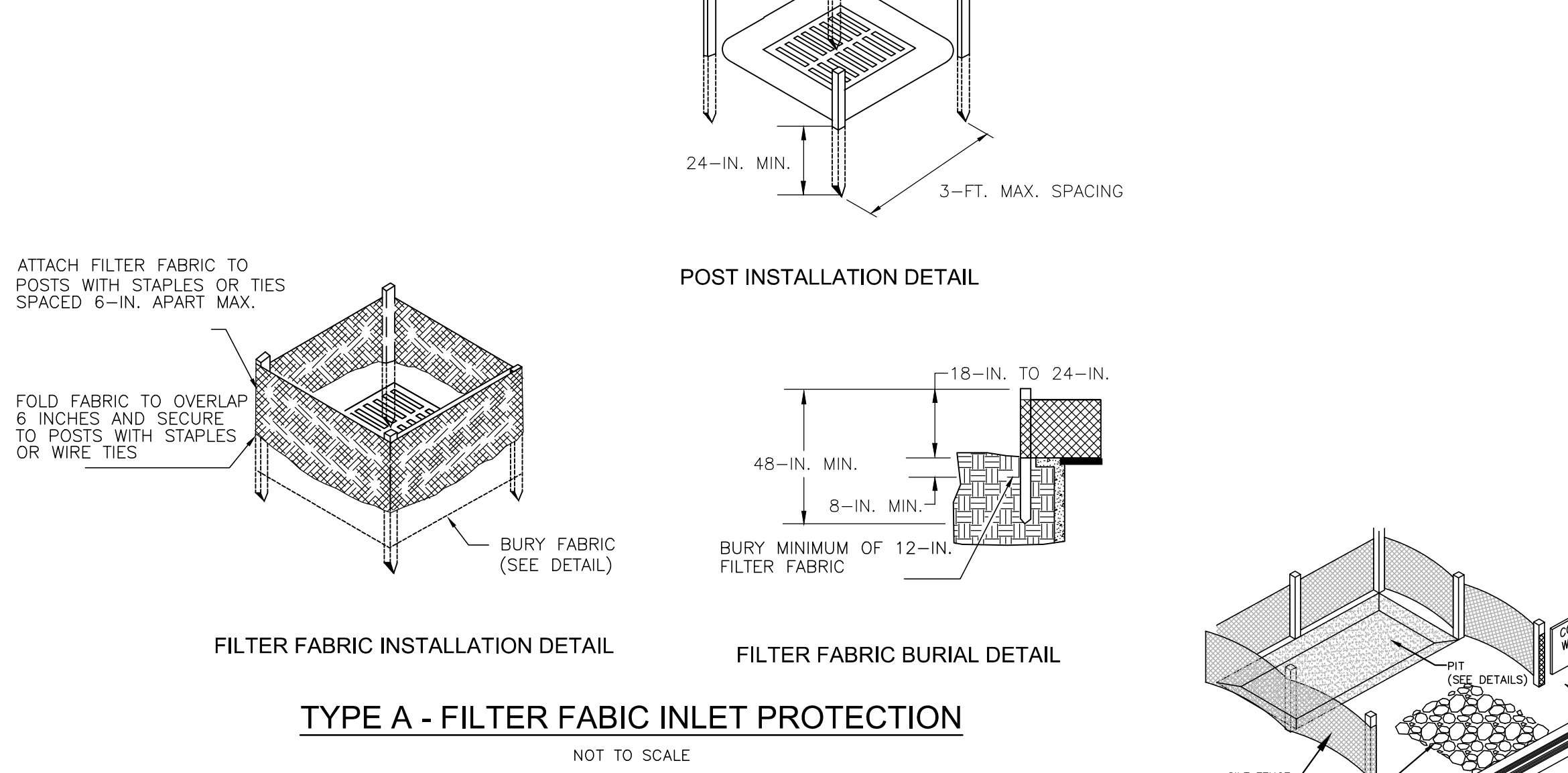
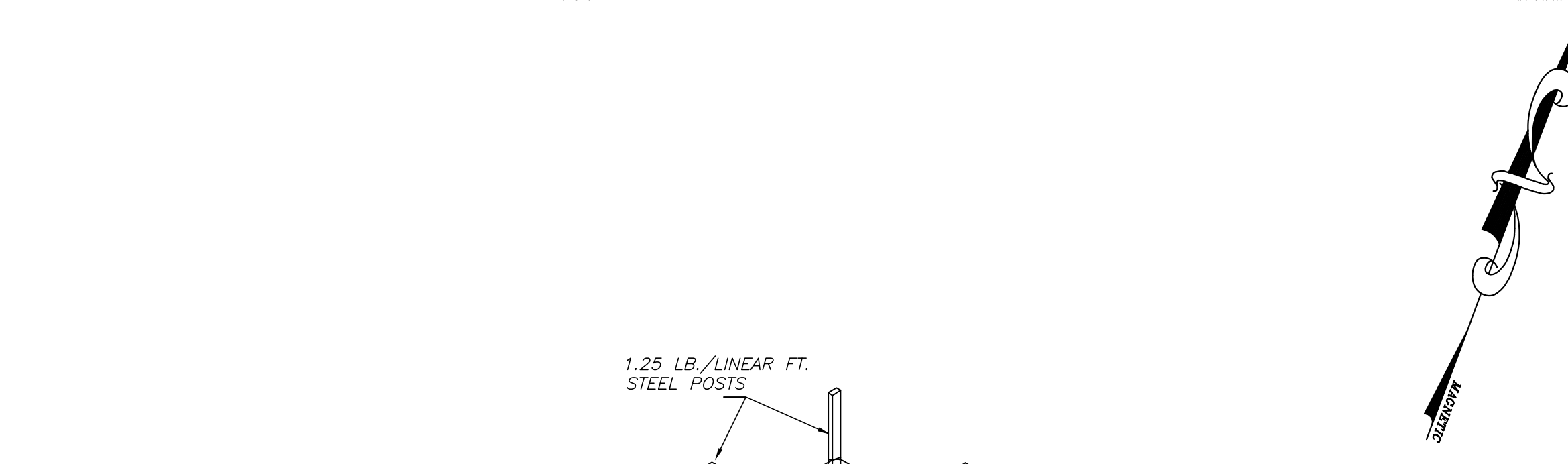
Repair any broken pavement immediately.



**LEGEND**

PROPOSED	DESCRIPTION
— X —	SILT FENCE
---	LIMITS OF DISTURBANCE (SHADED)
○	INLET PROTECTION

**GRAPHIC SCALE**  
( IN FEET )  
1 inch = 20 ft.



**Materials**

Use filter fabric that conforms to SCDOT standard specifications for highway construction (latest edition). Refer to the silt fence geotextile fabric's Approved Sheet #34.

Use steel posts that meet the following minimum physical requirements:  
Be composed of high strength steel with minimum yield strength of 50,000 psi.  
Have a standard "I" section with a nominal face width of 1.38-inches and nominal "I" length of 1.48-inches.  
Weigh 1.25 pounds per foot (± 5%).  
Be painted with a water based baked enamel paint.

Attach fabric to metal posts with heavy-duty plastic ties.

**Installation**

Excavate a trench 6-inches wide and 6-inches deep around the outside perimeter of the inlet unless the fabric is pneumatically installed.

Extend the filter fabric a minimum of 12-inches into the trench. Backfill the trench with soil or crushed stone and compact over the filter fabric unless the fabric is pneumatically installed.

Use steel posts with a minimum post length of 60-inches consisting of standard "I" sections with a weight of 1.25 pounds per foot (± 5%). Install the filter fabric to a minimum height of 24-inches above grade. Space the steel posts around the perimeter of the inlet a maximum of 3-feet apart and drive them into the ground a minimum of 24-inches. Cut the filter fabric from a continuous roll to the length of the protected area to avoid the use of joints. When joints are necessary, wrap filter fabric together only at a support post with both ends securely fastened to the post, with a minimum 6-inch overlap.

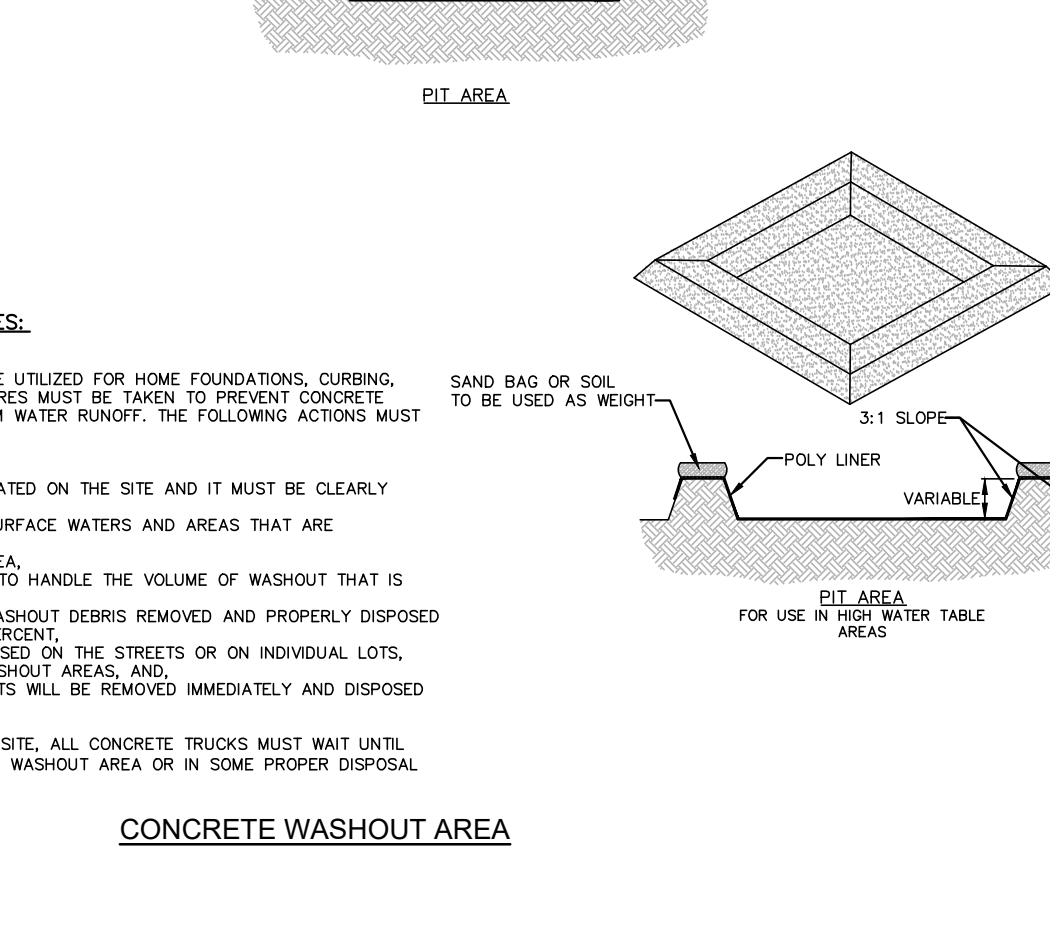
Attach fabric to steel posts with heavy-duty plastic ties.

Attach at least four (4) evenly spaced ties in a manner to prevent sagging or tearing of the fabric. In all cases, affix ties in no less than four (4) places.

**Inspection and Maintenance**

All sediment and erosion control devices shall be inspected at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater, if the fabric becomes clogged, it should be replaced. Sediment should be removed when it reaches approximately 1/2 the height of the fence. Take care not to damage or undercut fabric when removing sediment if a pump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole. Maintain the pool area, always providing adequate sediment storage volume for the next storm.

Storm drain inlet protection structures shall be removed only after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Use appropriate permanent stabilization methods to stabilize bare areas around the inlet.



**EROSION CONTROL BLANKET**

INSTALL SC1588N EROSION CONTROL BLANKET AS MANUFACTURED BY NORTH AMERICAN GREEN (NETTING MUST BE BIODEGRADABLE). INSTALL AS PER MANUFACTURER'S RECOMMENDATION ON SLOPES 4:1 OR STEEPER. CONTRACTOR SHALL ALSO USE FLEX TERRA SPRAY ON MAT INSTALLATION.

**CONSTRUCTION SEQUENCE OF ENTIRE CONSTRUCTION AREA FOR EROSION AND SEDIMENT CONTROL**

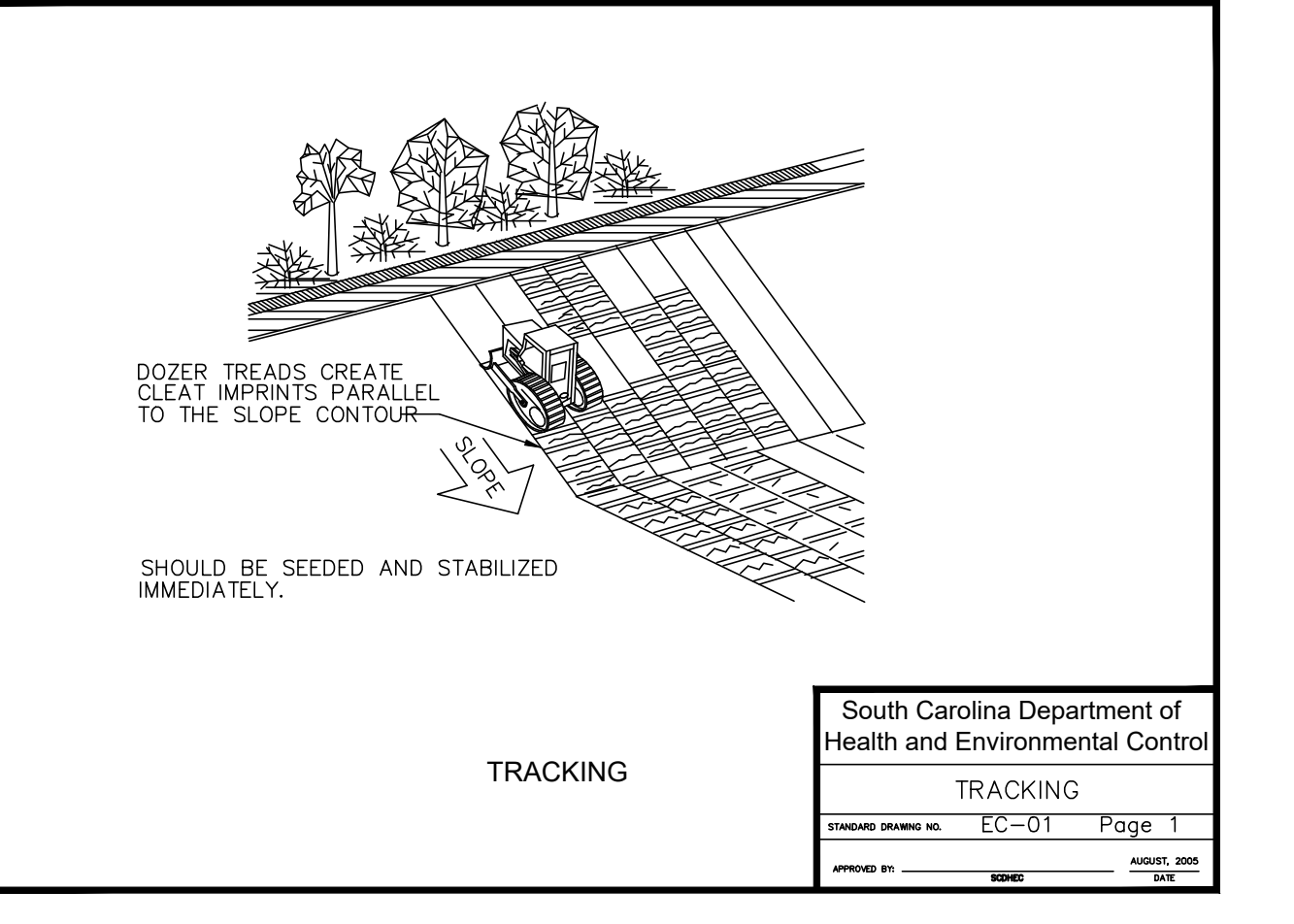
1. RECEIVE NPDES COVERAGE FROM DHEC
2. PRE-CONSTRUCTION MEETING (ON-SITE IF MORE THAN 10 DISTURBED AND NON-LINEAR)
3. NOTIFY DHEC FOR REGIONAL OFFICE OR COUNTY OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES
4. INSTALLATION OF CONSTRUCTION ENTRANCES
5. CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS
6. INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCES)
7. CLEARING & GRUBBING OF SITE OR DECONTAMINATION (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED)
8. ROUGH GRADING
9. INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED
10. INSTALL TEMPORARY SEDIMENT BASIN
11. FINE GRADING, PAVING, ETC.
12. PERMANENT/FINAL STABILIZATION
13. CONVERT TEMPORARY SEDIMENT BASIN TO PERMANENT DETENTION POND BY FINAL GRADING AND REMOVING SKIMMER UNCOVER ORIFICE
14. REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARED OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES)
15. SUBMIT NOTICE OF TERMINATION (NOT TO DHEC AS APPROPRIATE)

**AIRBORNE DUST CONTROL**

THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS OUTLINED IN THE SOUTH CAROLINA DHEC STORMWATER MANAGEMENT BMP HANDBOOK AS NEEDED TO CONTROL AIRBORNE DUST DURING CONSTRUCTION. COORDINATE WITH ENGINEER PRIOR TO IMPLEMENTATION OF VARIOUS MEASURES.

**SLOPE STABILIZATION**

THE CONTRACTOR IS RESPONSIBLE FOR SLOPE STABILIZATION AND IS RESPONSIBLE FOR INSTALLING THE NECESSARY STABILIZATION DEVICES TO ACCOMPLISH SLOPE STABILIZATION. THE CONTRACTOR SHALL INSTALL THE CONSTRUCTION MAT WHERE INDICATED AT MINIMUM AND MAY NEED TO INSTALL TEMPORARY SLOPE DRAIN (CONTRACTOR OPTION)



**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 AREAS DISTURBED BY CONSTRUCTION.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED EXCEPT AS STATED BELOW.
  - > WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
  - > WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH ONE-THIRD THE HEIGHT OF THE SEDIMENT FENCE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING ALL SLOPES FROM FINISH GRADE TO NATURAL GROUND AND FOR PREVENTING EXCESSIVE EROSION FROM OCCURRING, IMMEDIATELY AFTER ESTABLISHING THE INTERMEDIATE ROUGH GRADE SLOPES AND AFTER REACHING THE FINAL GRADE SLOPES; THE CONTRACTOR SHALL PROVIDE GRASSING OF THESE SLOPES WHEN SLOPES ARE DISTURBED BY SUBSEQUENT EXCAVATIONS FOR OTHER ITEMS, THE CONTRACTOR SHALL INSPECT THE REPAIRS AND CORRECT ANY DEFICIENCIES IN THE REPAIRS.
6. ALL GRADING WORK SHALL CONFORM SUBSTANTIALLY WITH THE GRADING PLANS. WHERE SPOT GRADES ARE INDICATED ON THE PLANS, THEY SHALL BE ESTABLISHED BY SCALING AND SHALL TAKE PRECEDENCE OVER CONTOURS. ALL GRADING BETWEEN SPOT GRADES SHALL BE SMOOTH AND UNIFORM.
7. THE CONTRACTOR SHALL ADEQUATELY COORDINATE THE INSTALLATION OF THE STORM DRAINAGE SYSTEM TO ENSURE THAT POSITIVE RUNOFF OF STORMWATER IS EFFECTED BOTH DURING CONSTRUCTION AND AFTER COMPLETION OF THE WORK.
8. IF NECESSARY, SLOPES WHICH EXCEED 8 VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
9. PERMITTED SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
10. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAY FROM CONSTRUCTION AREAS AND GENERATION OF DUST.
11. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. 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.
12. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
13. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED AT ALL AREAS WHERE A 50-FOOT BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREAS AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
14. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY 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 (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE
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 TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
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 DISCHARGES FROM SITES ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; WASTEWATER FROM WASHOUT OF VEHICLE, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN STEEL 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 ARE TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SOIL WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. 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 POSSIBLE.
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 OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-200 ET SEQ AND 72R200000.

**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 MANDATORY. THE CONTRACTOR SHALL RELY ON EXPERIENCE AND CONTROL OF THE WORK TO PROVIDE ADEQUATE AND ORDERLY CONSTRUCTION METHODS TO CONTROL STORMWATER RUNOFF AND PREVENT THE EXCESSIVE MIGRATION OF SEDIMENTS FROM THE SITE. THE CONTRACTOR ALSO SHALL DIRECT INSTALLATION OF NECESSARY TEMPORARY CONSTRUCTION MEASURES TO CONTROL STORMWATER RUNOFF. ALL STORMWATER MANAGEMENT MEASURES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND ANY REQUIRED MAINTENANCE SHALL BE PERFORMED.

**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 PIPES, INCLUDING OUTLET 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 UPSLOPE RUNOFF AND/OR DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO PREVENT FLOW OF STORMWATER OVER DISTURBED AREA. TEMPORARY DIVERSION OUTLETS SHALL HAVE ADEQUATE CAPACITY AND TERMINATE INTO DENSE VEGETATION, ROCK RIP RAP, STORM STRUCTURES OR SIMILAR MEASURES TO REDUCE EROSION AT THE OUTLET. TEMPORARY DIVERSION CHANNELS SHALL BE CONSTRUCTED 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 CHANNEL BECOMES FULL OF SEDIMENT AT ANY POINT IN THE LENGTH OF THE DIVERSION. THE RIDGE 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, (U<sub>2</sub>) TYPE C

**GRASSING PER 1000 SQUARE FEET (TEMPORARY)**

FROM MAY 1 TO AUGUST 30	FROM SEPTEMBER 1 TO APRIL 30
1 LB. BROWNTOP MILLET GRASS	6 LBS. ANNUAL RYEGRASS
15 LBS. 10-10-10 FERTILIZER	15 LBS. 10-10-10 FERTILIZER
5 LBS. MAGNESIUM SULFATE	5 LBS. MAGNESIUM SULFATE
10 LBS. CALCIUM (GYPSUM)	5 LBS. CALCIUM (GYPSUM)

**GRASS INFORMATION (PERMANENT)**

SEE LANDSCAPE ARCHITECTURE PLANS FOR PERIMETER GRASSING AND LANDSCAPE INFORMATION.

**CLAYCO**  
THE ART & SCIENCE OF BUILDING  
2109 INDEPENDENT BUSINESS CENTER DRIVE  
ST. LOUIS, MISSOURI 63114  
PH: 314.429.5100 F: 314.429.3137

**Lamar Johnson Collaborative**  
2109 INDEPENDENT BUSINESS CENTER DRIVE  
ST. LOUIS, MISSOURI 63114  
PH: 314.429.5100

**ADC ENGINEERING**  
1209 BEAUFORT BLVD  
SUITE 100  
ST. LOUIS, MO 63103  
PH: 314.429.5100

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Professional Engineer Seal  
No. 15390  
Professional Engineer Seal  
06/30/2021

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DRAWING ISSUE

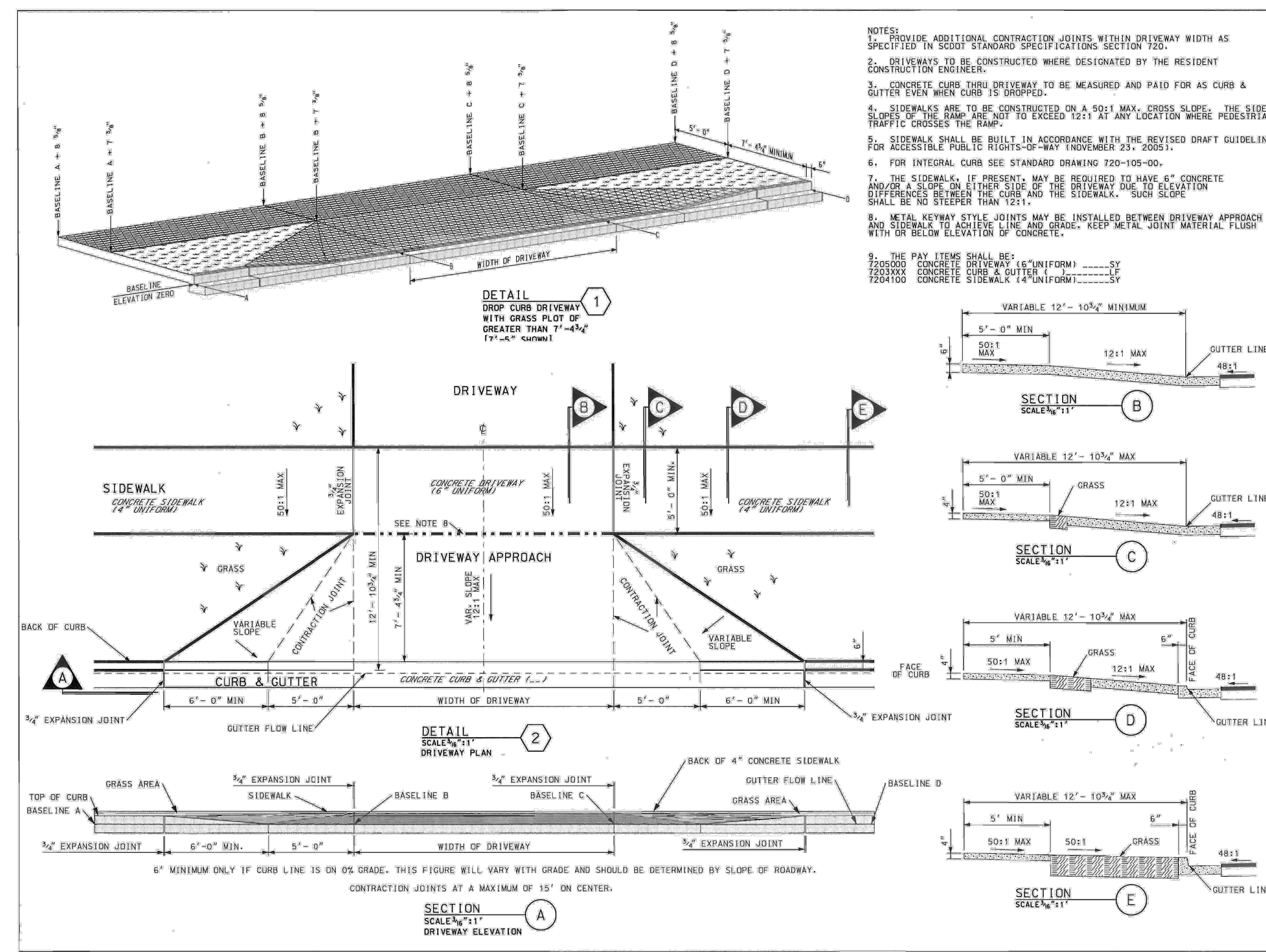
DESCRIPTION	DATE
ISSUED FOR PERMIT	06-30-2021

DRAWING TITLE  
**SEDIMENT AND EROSION CONTROL PLAN**

DRAWING NO.  
**C5.1**

Job #  
**25.002264.000**





SCDOT DETAIL 720-415-00

NOT TO SCALE

**REFERENCES**

NATIONAL SPECIFICATIONS  
REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY NOVEMBER, 2005

SCDOT DOCUMENTS  
SCDOT TRANSITION PLAN  
DPL 61  
SCDOT ARMS MANUAL  
HIGHWAY DESIGN MANUAL

RELATED DRAWINGS & NETWORKS  
720-105-01

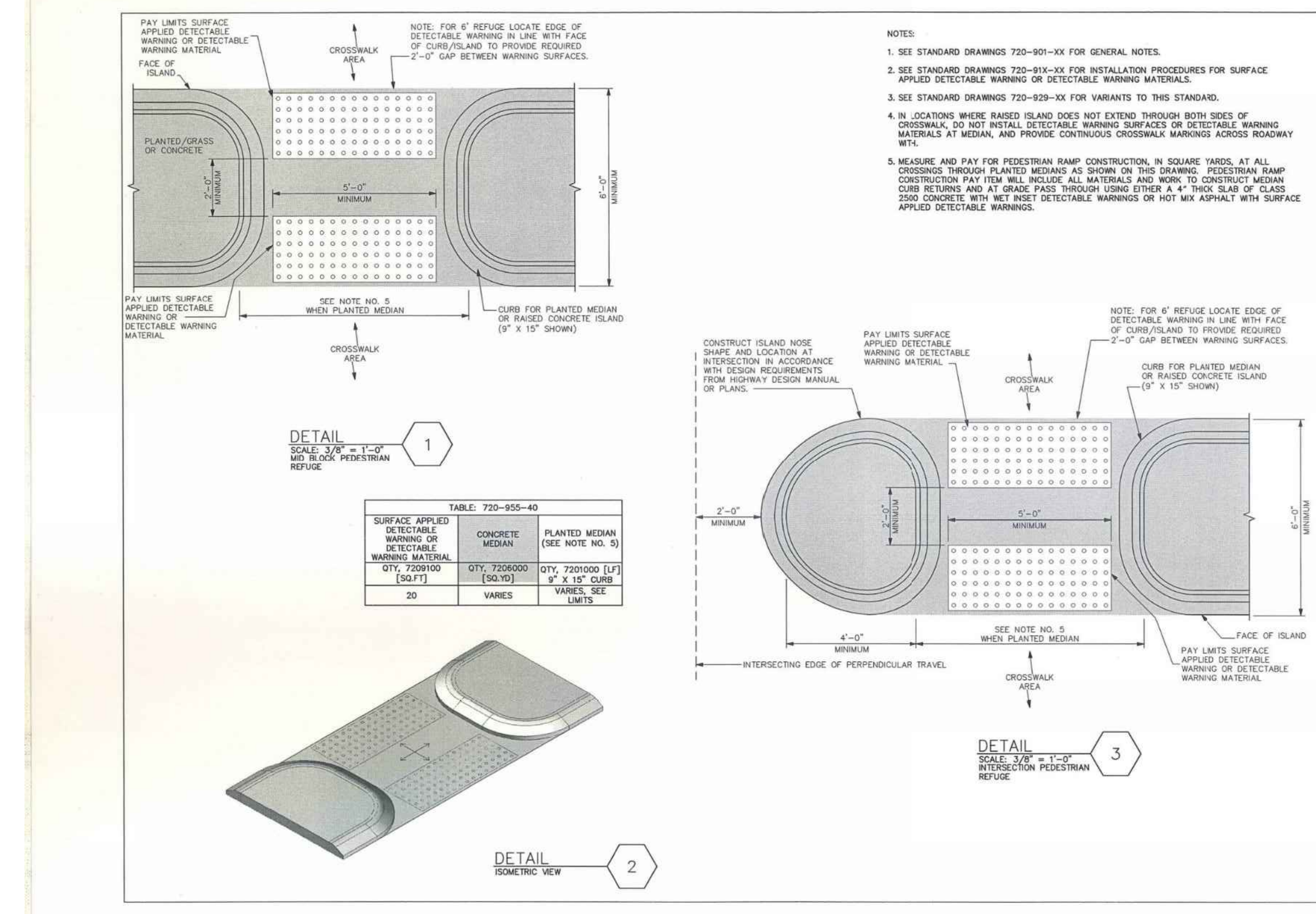
**PRECONSTRUCTION SUPPORT ENGINEER**

**SOUTH CAROLINA PROFESSIONAL ENGINEER**  
NO. 8859  
JAMES W. KENDALL

DATE: JULY 30, 2009

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DESIGN STANDARDS OFFICE  
955 PARK STREET  
COLUMBIA, SC 29201

**STANDARD DRAWING**  
DRIVEWAY WITH SEPARATE SIDEWALK BEYOND 4 3/4" FROM CURB  
720-415-00  
EFFECTIVE LISTING DATE: SEPTEMBER 2009



SCDOT DETAIL 720-955-40

**REFERENCES**

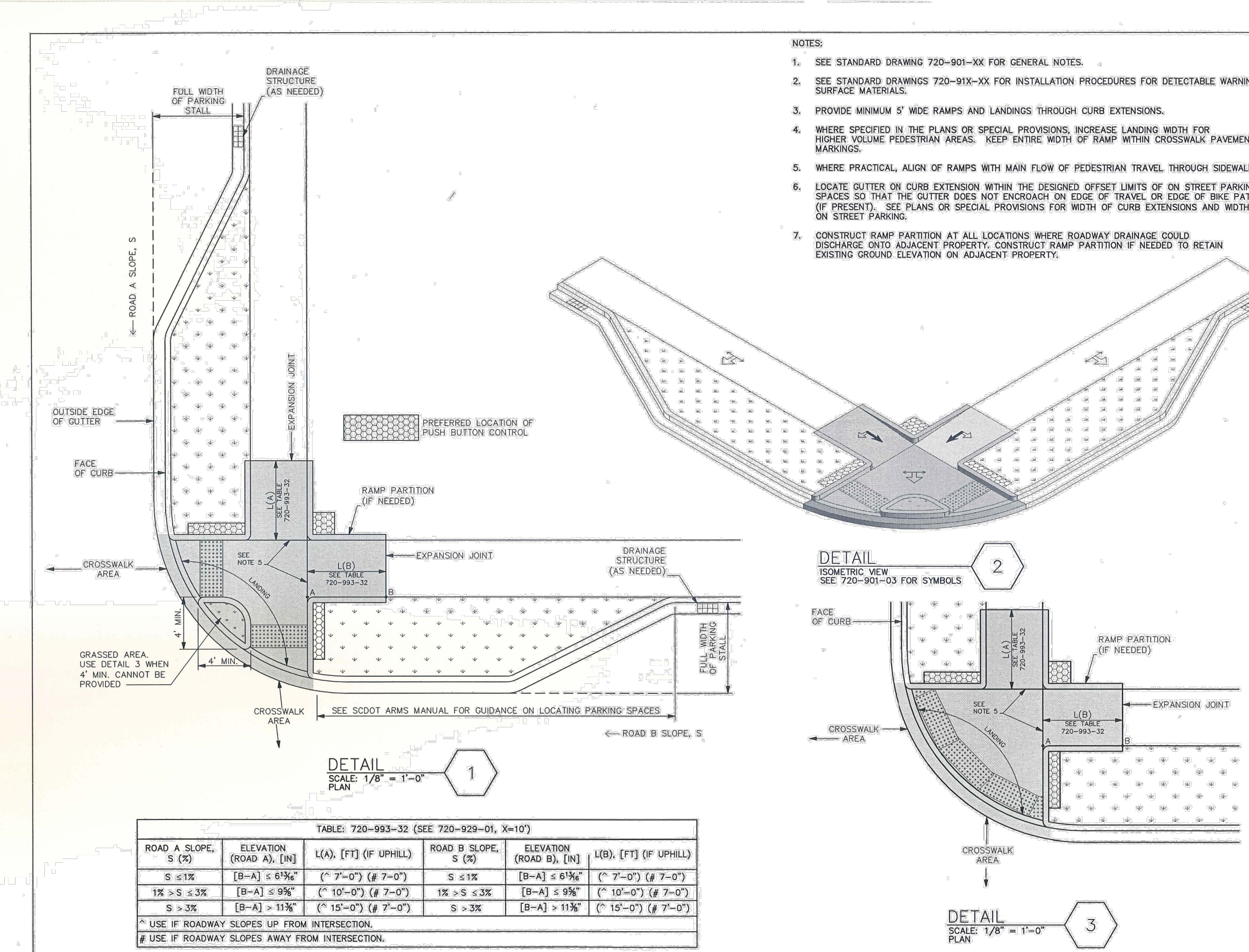
NATIONAL SPECIFICATIONS  
REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY NOVEMBER, 2005

SCDOT DOCUMENTS  
SCDOT TRANSITION PLAN  
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**STANDARD DRAWING**  
PEDESTRIAN REFUGE RAISED CONCRETE ISLAND  
720-955-40  
EFFECTIVE LISTING DATE: FEBRUARY 2005



SCDOT DETAIL 720-993-0320

NOT TO SCALE

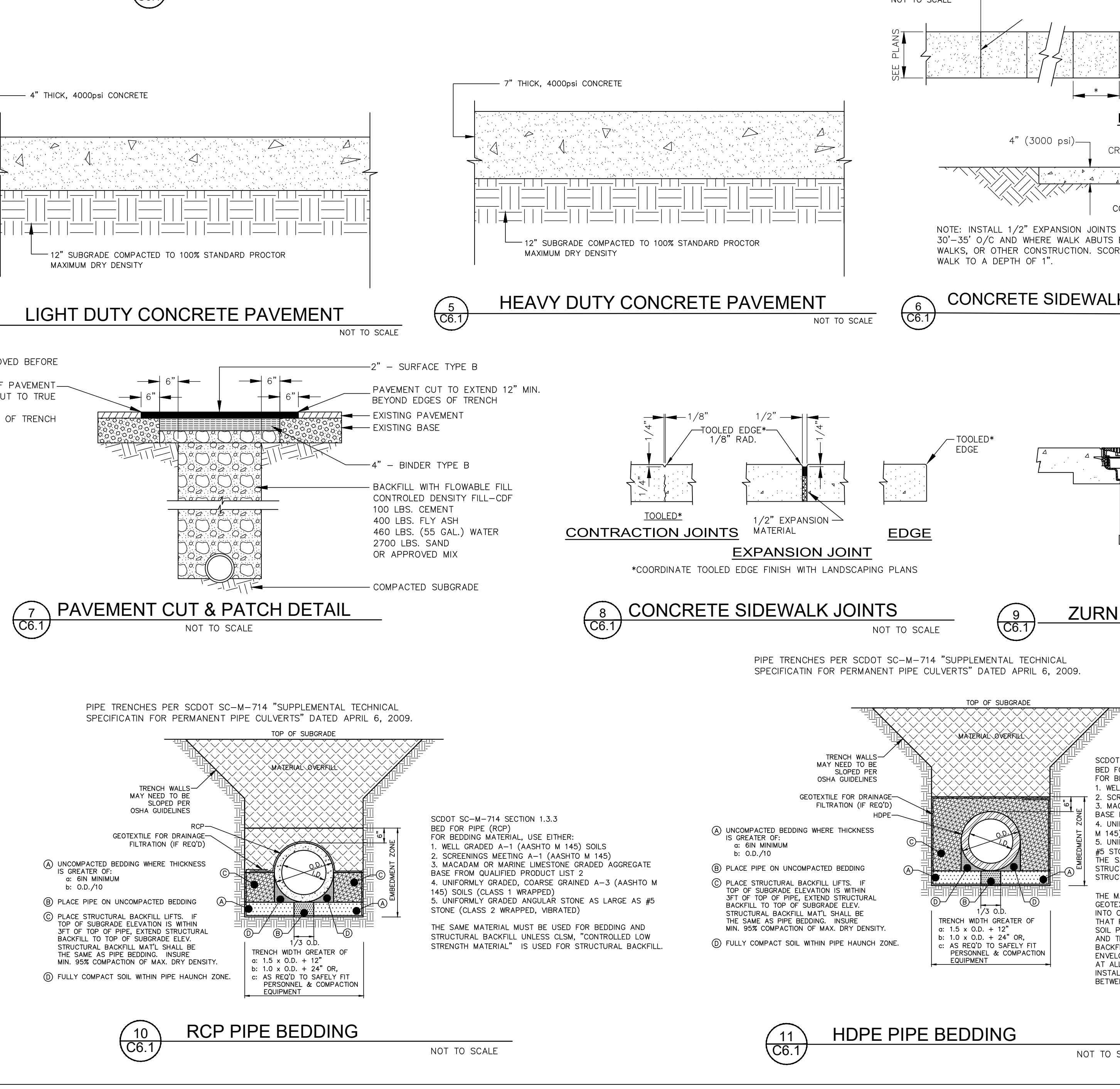
**REFERENCES**

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SCDOT TRANSITION PLAN  
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**STANDARD DRAWING**  
PEDESTRIAN RAMPS AT CURB EXTENSION EITHER ROAD EXCEEDS 1% UPHILL GRADE  
720-993-32  
EFFECTIVE LISTING DATE: FEBRUARY 2005



RCP PIPE BEDDING

HDPE PIPE BEDDING

**REFERENCES**

NATIONAL SPECIFICATIONS  
REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY NOVEMBER, 2005

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

**STANDARD DRAWING**  
CONCRETE SIDEWALK JOINTS  
720-955-40  
EFFECTIVE LISTING DATE: FEBRUARY 2005

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2100 INHERIT BUSINESS CENTER DRIVE  
ST. LOUIS, MISSOURI 63114  
PH: 314.429.5100 F: 314.429.3137

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2100 INHERIT BUSINESS CENTER DRIVE  
ST. LOUIS, MISSOURI 63114  
PH: 314.429.5100

**ADC ENGINEERING**  
7308 BROAD RIVER ROAD  
SUITE 611  
RMO, SC 29622  
803.701.1000  
ADCENGINEERING.COM  
ADC PROJECT 2100

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

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DESIGN STANDARDS OFFICE  
955 PARK STREET  
COLUMBIA, SC 29201

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DESIGN STANDARDS OFFICE  
955 PARK STREET  
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DRAWING ISSUE

DESCRIPTION	DATE
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DRAWING NO.  
**C6.1**

Job # 25.002264.000



