

**NOTE:**  
EXISTING FIRE SPRINKLER SYSTEM  
TO BE REMOVED IN IT'S ENTIRETY.

**NOTE:**  
PROVIDE NEW NFPA 13 - 2016 EDITION  
COMPLIANT WET SPRINKLER SYSTEM  
FOR ENTIRE BUILDING.

**LEGEND**

[White Box]	- LIGHT HAZARD
[Diagonal Lines /]	- ORDINARY HAZARD - GROUP I
[Diagonal Lines \]	- ORDINARY HAZARD - GROUP II
[Cross-hatch]	- ORDINARY HAZARD GROUP I - DRY SYSTEM

**WATER FLOW INFORMATION**

STATIC: 80 PSI  
RESIDUAL: 42 PSI  
FLOW: 1040 GPM  
DATE: 03/05/2020

INFORMATION PROVIDED BY JAMIE PRUITT, P.E. WITH COX & DINKINS (803-784-6222) AND ARE THEORETICAL VALUES.

**1 LEVEL 1 - RENOVATION PLAN**  
3/32" = 1'-0"

**Swygert & Associates**  
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**GMC**

1219 wayne Street  
Columbia, SC 29201  
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**ISSUE DATE**  
Construction Documents: 03/08/2020

1206 FLORA STREET MILL  
FIRE SPRINKLER BID PACKAGE  
UNIVERSITY OF SOUTH CAROLINA  
COLUMBIA, SC  
GMC # ACOL180003  
STATE # H27-Z409 50003381-2  
Construction Documents

**1-FP-101**

LEVEL 1 - RENOVATION PLAN

DRAWN BY: DEM  
CHECKED BY: ITS

### GENERAL NOTES

- SUBMIT DRAWINGS INDICATING EXACT LOCATION OF ALL SPRINKLER HEADS FOR REVIEW AND BRING ALL FIELD CONFLICTS AND REQUIRED ADJUSTMENTS TO THE A/E ATTENTION FOR VERIFICATION OF FINAL LOCATION OF ALL SPRINKLER HEADS.
- SPRINKLER DRAWINGS PROVIDED ARE TO ASSIST THE CONTRACTOR. SUCCESSFUL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE SYSTEM PER THESE PLANS AND SPECIFICATIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMISSION TO THE OFFICE OF THE STATE FIRE MARSHAL.
- THE DESIGN TEAM, TO ENSURE COMPATIBILITY WITH THE BUILDING DESIGN INTENT, WILL CAREFULLY REVIEW SPRINKLER PLANS. CORRECTIONS WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- SYSTEM DRAINS SHALL BE INSTALLED AS REQUIRED PER NFPA. DRAINS SHALL BE EXTENDED OUTSIDE THE BUILDING. DRAIN LOCATIONS SHALL BE APPROVED BY THE A/E TEAM AND SHALL BE INDICATED ON THE SHOP DRAWINGS.
- SPRINKLER PIPING SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS WITH LATERAL SWAY BRACING, LONGITUDINAL SWAY BRACING, AND FOUR-WAY BRACING AS REQUIRED BY NFPA AND THE INTERNATIONAL BUILDING CODES.
- ALL PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 10 STEEL PIPING WITH ROLLED GROOVE FITTINGS AND ALL PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 STEEL PIPING WITH ROLLED GROOVE OR THREADED FITTINGS.

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FOR ENTIRE BUILDING. SECOND FLOOR  
SHALL BE TREATED AS A SHELL SPACE  
WITH UPRIGHT HEADS FOR FUTURE  
UPFIT.

**LEGEND**

	- LIGHT HAZARD
	- ORDINARY HAZARD - GROUP I
	- ORDINARY HAZARD - GROUP II
	- ORDINARY HAZARD GROUP I - DRY SYSTEM

### Fire Protection Sprinkler System Specification Sheet

(Per 440-10-250)

Project name: 1206 Flora Renovation	
Location in South Carolina:	Address (street # & street name): 1206 Flora Street State project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
City: Columbia	County: Richland State project #: N/A

Water Supply Information	
Date test conducted: N/A (See note below)	Static pressure (psi): 80 Residual pressure (psi): 42 Flow (gpm): 1040
Distances of test gauges relative to the base of the riser: Horizontal (ft): N/A Vertical (elevation difference to R): N/A	
Source of water supply: <input type="checkbox"/> Municipal dead-end <input checked="" type="checkbox"/> Municipal circulation <input type="checkbox"/> Other: Pipe Size (in.): 6"	
Test data by/from: Name: James L. Pruitt, P.E. Title: Project Engineer	Organization: Cox and Dinkins Telephone #: 803-764-6222
Fire pump: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Capacity (gpm): N/A Churn Pressure (psi): N/A	Rated Pressure (psi): N/A Pressure @ 150% flow (psi): N/A
On-site storage tank: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> New <input type="checkbox"/> Existing Tank capacity (gallons): N/A	

NFPA Hazard Classification	
Area #	Class or Code Reference Description of Hazard Protected (commonly description, storage height, and arrangement as applicable)
1	Light Hazard Shell space to be used as future office
2	Ordinary Hazard - Group 1 Shell space to be used as future storage (not stacked)
3	Ordinary Hazard - Group 1 Exterior Loading Dock

Design Parameters	
Area #	System Type Density (gpm/ft <sup>2</sup> ) / Area (ft <sup>2</sup> ) or Other (reference code section) Inside Hose (gpm) Outside Hose (gpm)
1	Wet 0.101500 0 100
2	Wet 0.151500 0 250
3	Dry 0.101950* 0 100

Seismic Design Data: Ss=0.42

**Codes and Standards**

Applicable Codes, Standards & Editions (i.e. "2006 IBC", "2007 NFPA 13", etc.) for the Scope of Work on the Sprinkler System  
 International Building Code - 2018 Edition; International Fire Code - 2018 Edition  
 NFPA 13 - 2016 Edition

Scope of work (such as sprinkler system A.G. from 1'-0" A.F.F., U.G. from top to 5'-0" outside, etc.) and notes (attach continuation page when necessary):  
 Above ground work from 5'-0" outside of the building.  
 \* - Area increased 30% for dry system per NFPA 13-11.2.3.2.5  
 Flows indicated are theoretical as there is a new water line being installed.

Specifier's Information	
Name: Todd F. Swygert, P.E.	Engineering services provided through a firm: X Yes <input type="checkbox"/> No
Firm name: Swygert and Associates, Ltd.	Address: Post Office Box 11686
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Revision No.: 0 Page 1 of 2 Signature: *Todd F. Swygert* Date: 3-16-2020

### Fire Protection Sprinkler System Specification Sheet (Continuation)

(Per 440-10-250)

Project name: 1206 Flora Renovation	
Location in South Carolina:	Address (street # & street name): 1206 Flora Street State project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
City: Columbia	County: Richland State project #: N/A

NFPA Hazard Classification	
Area #	Class or Code Reference Description of Hazard Protected (commonly description, storage height, and arrangement as applicable)
4	Ordinary Hazard - Group 1 Shell space to be used as future carpentry shop

Design Parameters	
Area #	System Type Density (gpm/ft <sup>2</sup> ) / Area (ft <sup>2</sup> ) or Other (reference code section) Inside Hose (gpm) Outside Hose (gpm)
4	Wet 0.21500 0 250

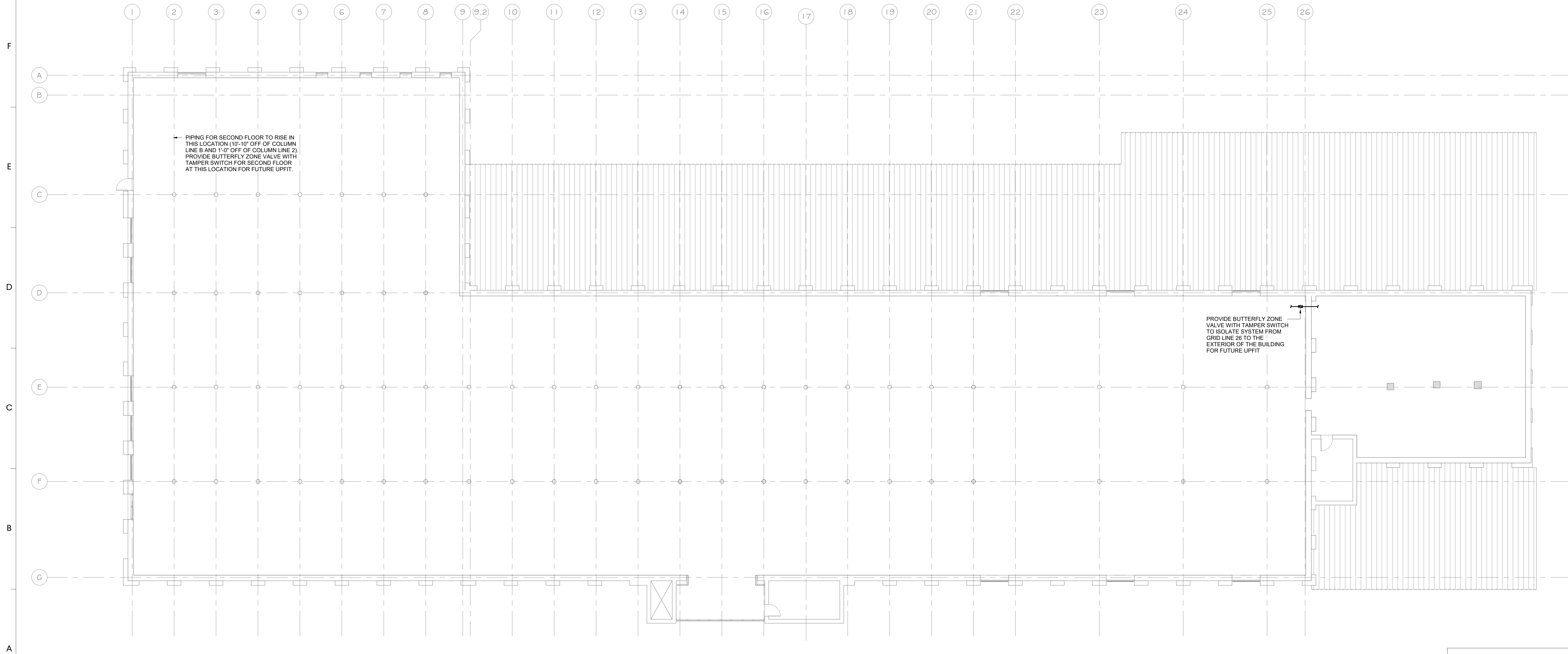
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 NFPA 13 - 2016 Edition

Additional notes and/or additional scope of work (attach additional continuation pages when necessary):

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Revision No.: 0 Page 2 of 2 Signature: *Todd F. Swygert* Date: 3-16-2020



**LEVEL 2 - RENOVATION PLAN**  
 1-FP-102 3/32" = 1'-0"

**Swygert & Associates**  
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 Construction Documents: 03/08/2020

DRAWN BY: DEM  
 CHECKED BY: TFS

LEVEL 2 - RENOVATION  
 PLAN

1-FP-102