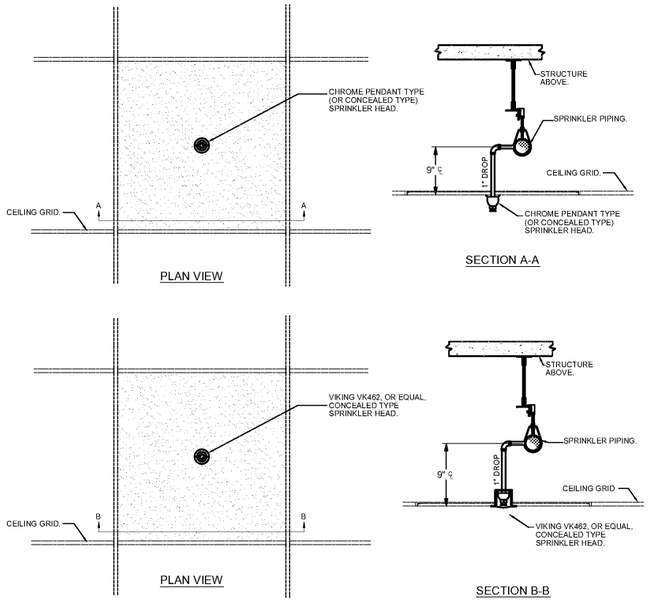
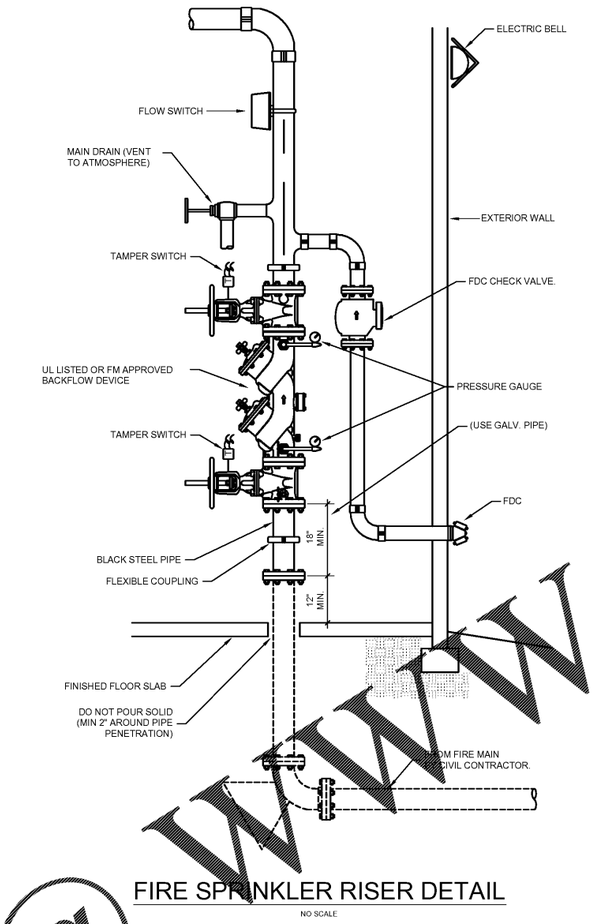


SPRINKLER HEAD LOCATION DETAILS

NO SCALE



FIRE SPRINKLER RISER DETAIL

NO SCALE

LLR **Fire Protection Sprinkler System Specification Sheet**

(Per §40-10-350)

Project Data

Project name: Pinewood Community Building

Location in South Carolina:	Address (street # & street name): 1061 Old Garners Ferry Road	State project: ☐ Yes ☒ No
	City: Columbia	County: Richland	State project #:

Water Supply Information

(flow test data must be less than 1 year old per §40-10-250(A)(1))

Date test conducted: 08 / 11 /2016	Static pressure (psi): 86	Residual pressure (psi): 65	Flow (gpm): 1500
Distances of test gauges relative to the base of the riser:	Horizontal (ft): 500	Vertical (elevation difference in ft): 8	
Source of water supply: ☐ Municipal dead-end ☒ Municipal circulation ☐ Other:		Pipe Size (in.):	
Test data by/from:	Name: Jason A. Shaw	Title: Water Engineer	
	Organization: City of Columbia	Telephone #: 803-545-3400	
Fire pump: ☐ Yes ☒ No	Pump Capacity (gpm): n/a	Churn Pressure (psi): n/a	
☐ New ☐ Existing	Rated Pressure (psi): n/a	Pressure @ 150% flow (psi): n/a	
On-site storage tank: ☐ Yes ☒ No	☐ New ☐ Existing	Tank capacity (gallons):	

NFPA Hazard Classification

(attach continuation page when necessary)

Area #	Class or Code Reference	Description of Hazard Protected (conveyorized cleaning/drying, storage height, cold storage, etc. attach continuation page when necessary)
1	Light Hazard	All public areas of building
2	Ordinary Group 1	Kitchen / storage areas
3	Light hazard	Attic area and porches

Design Parameters

(attach continuation page when necessary)

Area #	System Type	Density (gpm/ft²) / Area (ft²) / Other (reference code section)	Inside Hose (gpm)	Outside Hose (gpm)
1	wet	10 gpm / 1500 sf	-0-	100
2	wet	15 gpm / 2000 sf	-0-	250
3	dry	10 gpm / 2000 sf		100

Seismic Design Data: S_{DS}= 0.592 from USGS for site.

Codes and Standards

(attach continuation page when necessary)

Applicable Codes, Standards & Ordinances (i.e. NFPA, 2003 NFPA, Local Ordinances) for the Scope of Work on the Sprinkler System

IBC 2015 - Fire Code - IFC - 2015 Edition; NFPA 13 - 2013 Edition; City of Columbia and Richland County

Scope of work (such as number system A.G. to be 6"Ø A.F.U.G. from tap to 5'-0" outside, etc.) and notes (attach continuation page when necessary):
Complete fire sprinkler system from 1'-0" above finished floor.

Specifier's Information

Name: Philip P. Clayton	
Engineering services provided through a firm: X Yes No	
Firm name: Mechanical Engineering Consulting Associates	
Address: 2330 Main Street	
City: Columbia	
State: SC	Zip: 29201
Phone #: 803-765-9421	Fax #: 803-765-9848
E-mail: MECA@mecainc.com	

Certificate of Authorization | Professional Engineer's Seal

Revision No.: _____ Page ___1___ of ___1___ Signature: _____

Form: SprinklerSystemSpecificationSheet.doc Date: 05-26-16

(Download from: @ http://www.llr.state.sc.us/fmsr-bul/index.asp?file=forms.htm)

Order Plans @ WWW.LLR.SC.GOV

MECA
Mechanical Engineering Consulting Associates, Inc.

Columbia Office
P.O. Box 50644
Columbia, South Carolina
Phone: (803) 765-9421

Charleston Office
1251 Dawsen Lane
Wando, South Carolina
Phone: (843) 971-3986

Jacksonville Office
175 Silver Street
Jacksonville, Florida 32206
Phone: (904) 494-6300

Designed:	WMB
Approved:	PPC
Job No.:	116226
Plot Date:	08/14/17

SOUTH CAROLINA PROFESSIONAL ENGINEER PHILIP P. CLAYTON No. 18706 REGISTERED 08/14/17

SOUTH CAROLINA MECHANICAL ENGINEERING CONSULTING ASSOCIATES NO. 000097 CERTIFICATE OF AUTHORIZATION

File date: 8/14/2017

McCreary/Snow Architects, PA
Architects and Planners
P.O. Box 11167
2210 Devine Street (29205)
Columbia, South Carolina 29211
803.771.6267
dcarlos@mscarch.net

Fire Protection Details
Pinewood Community Bldg.
Richland County
Old Garners Ferry Road
Columbia, SC 29209

Construction Documents

0 4 8 16
Scale: 1/8" = 1' - 0"

Drawn: -	Checked: -
Revised: -	
File: -	Project No.: #######

fp2.1

Sheet Number

February 6, 2017

Date