

DRAWINGS FOR  
FIRE ALARM SYSTEM REPLACEMENT

AT

WCSD DISTRICT OFFICE  
500 NORTH ACADEMY STREET  
KINGSTREE, SC 29556

OWNER:  
WILLIAMSBURG COUNTY SCHOOL DISTRICT  
500 NORTH ACADEMY STREET  
KINGSTREE, SC 29556

PREPARED BY:  
ETI ENGINEERING, LLC  
5725 BUSH RIVER ROAD  
COLUMBIA, SC 29212

SHEETS:

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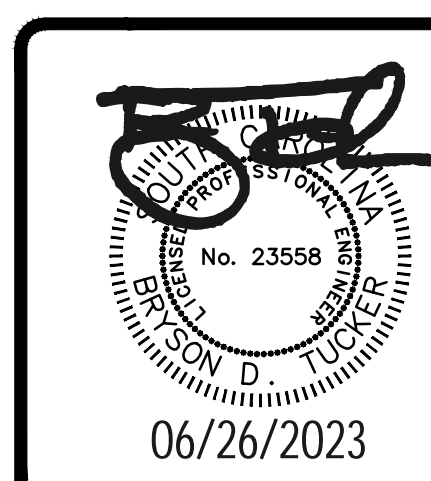
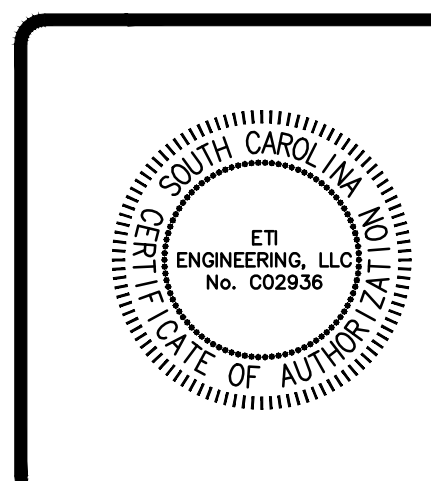
ENGINEERING, LLC

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Columbia, SC 29212  
803.233.9396 (Phone)  
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Project Manager:  
Troy Lowder, PE x105

ETI #2306-57503

OSF # 4501-0211 (1799)



WILLIAMSBURG COUNTY SCHOOL DISTRICT - DISTRICT OFFICE  
FIRE ALARM SYSTEM REPLACEMENT  
500 N Academy St., Kingstree, SC 29556

COVER PAGE

DRAWN BY: TRL  
CHECKED BY: BDT  
REVISIONS:

E0

06/26/23



**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

Date: 6-26-23

SUBMITTAL:  Schematic  Design Development  Construction Document

SC CODE EDITION: 2021 ICC CODE EDITION: 2021 ICC A117.1 EDITION: 2017 OSF GUIDE EDITION: 2020  
 OTHER CODES/STANDARDS & EDITIONS: 2020 NFPA 70 National Electrical Code, 2019 NFPA 72 National Fire Alarm and Signaling Code

PROJECT DESCRIPTION:  
 Fire Alarm System Replacement  
 - Provide a new Voice Evacuation Fire Alarm System to replace existing fire alarm system.  
 - Remove existing system once new system is approved and in operation.

**BASIC BUILDING CODE INFORMATION**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
		<input type="checkbox"/> SCBC <input checked="" type="checkbox"/> SCBC	<input type="checkbox"/> SCBC <input checked="" type="checkbox"/> SCBC	<input type="checkbox"/> SCBC <input checked="" type="checkbox"/> SCBC	<input type="checkbox"/> SCBC <input checked="" type="checkbox"/> SCBC	<input type="checkbox"/> SCBC <input checked="" type="checkbox"/> SCBC
CONSTRUCTION CLASSIFICATION TYPE	Section 602	N/A	N/A	N/A		
OCCUPANCY GROUP (indicate all)	Section 302	E	E	E		
MOST RESTRICTIVE OCCUPANCY GROUP	Tables 504.3, 504.4 & 506.2	E	E	E		
Does building require Incidental Use Area Separation?	Table 509	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Does building have Accessory Occupancy (na)?	Section 508.2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
What is the aggregate square footage of the accessory occupancy (sq)?	Section 508.2	N/A	N/A	N/A	SF	SF
What percent of the story is the aggregate of the accessory occupancy (na)?	Section 508.2	N/A	%	N/A	%	%

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**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

Mixed Occupancy Section 508  YES  NO  Nonseparated  Separated

**EXISTING BUILDING CODE INFORMATION [SCBC]**

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3
Method of Compliance: (Check only one Option and all items that apply under that Option)	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building
	<input checked="" type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input checked="" type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building	<input checked="" type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input checked="" type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building	<input checked="" type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input checked="" type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building
Aggregate area of building: SF Work area: SF			
	<input type="checkbox"/> Option 3: Performance Compliance Method (Ch. 3, 13)	<input type="checkbox"/> Option 3: Performance Compliance Method (Ch. 3, 13)	<input type="checkbox"/> Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Edition Applicable at the time of Construction:	1950 Southern Standard Building Code (Assumed)	1950 Southern Standard Building Code (Assumed)	1950 Southern Standard Building Code (Assumed)
Existing Sprinkler System?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

Existing Fire Alarm System?  Manual  Auto  Manual  Auto  Manual  Auto

Seismic Evaluation Required?  YES  NO  YES  NO  YES  NO

Change of Occupancy:  YES  NO

Historic Building:  Preservation  Rehabilitation  Restoration  Reconstruction

**EXISTING BUILDING CODE INFORMATION [SCBC]**

DESIGNATED AREAS OF BUILDING	Area 4	Area 5
Method of Compliance: (Check only one Option and all items that apply under that Option)	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building	<input type="checkbox"/> Option 1: Prescriptive Compliance Method (Ch. 3, 5) <input type="checkbox"/> Alteration <input type="checkbox"/> Addition <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Historic Building
	<input checked="" type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building	<input checked="" type="checkbox"/> Option 2: Work Area Compliance Method (Ch. 3, 6-12) <input type="checkbox"/> Alteration Level 1 <input type="checkbox"/> Alteration Level 2 <input type="checkbox"/> Alteration Level 3 <input type="checkbox"/> Change of Occupancy <input type="checkbox"/> Additions <input type="checkbox"/> Historic Building

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**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

Aggregate area of building: SF  
Work area: SF

Original Building Code and Edition Applicable at the time of Construction:

Existing Fire Alarm System?  Manual  Auto

Seismic Evaluation Required?  YES  NO

Change of Occupancy:  YES  NO

Historic Building:  YES  NO

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**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

**SUMMARY - BUILDING DESIGN OCCUPANT LOAD**

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5
1 <sup>st</sup> FLOOR					
2 <sup>nd</sup> FLOOR					
3 <sup>rd</sup> FLOOR					
4 <sup>th</sup> FLOOR					
TOTAL:	0	0	0		

ALLOWABLE BUILDING AREA

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5

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**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

**GENERAL FIRE PROTECTION REQUIREMENTS**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
SEPARATIONS						
Fire Wall Required	Section 706	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Fire Barrier Required	Section 707	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Fire Partition Required	Section 708	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Smoke Barriers Required	Section 709	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Smoke Partitions Required	Section 710	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Enblockings	Section 718.2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Draftstopping	Section 718.4	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Incidental Use Area One hour fire barrier	Section 509.4	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ALARMS & DETECTION						
Fire Alarm and Detection System		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Fire Alarm Mass Notification	SCFC Section 907	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Emergency voice alarm comm.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Emergency Alarm System Required	SCFC Section 908	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
SUPPRESSION						
Automatic Sprinkler System Provided	SCFC Section 903	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Required		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

Allowable building area per story in square feet as calculated by Equations 5-1 through 5-3. (Indicated equation used.)

IBC Section 506.2.1, Equation 5-1:  $A_a = A_s + (N_s \times I_r)$

IBC Section 506.2.3, Equation 5-2:  $A_a = [A_s + (N_s \times I_r)] \times S_u$

IBC Section 506.2.4, Equation 5-3:  $A_a = [A_s + (N_s \times I_r)]$

N: Tabular allowable area factor in accordance with Table 506.2 for a non-sprinklered building (regardless of whether the building is sprinklered)

S<sub>u</sub>: Actual number of building stories above grade plane, not to exceed three (3). For buildings equipped throughout with automatic sprinkler system installed in accordance with SCBC Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four (4).

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
MAXIMUM AREA PER STORY		SF	SF	SF	SF	SF
AREA AS DESIGNED PER STORY (Repeat for each story)		SF	SF	SF	SF	SF

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**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

**BUILDING HEIGHT**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3			
HEIGHT		DESIGNED	ALLOWED	DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	Table 504.3						
In Stories	Table 504.4						

**BUILDING HEIGHT**

DESIGNATED AREAS OF BUILDING	Building Code	Area 4	Area 5		
HEIGHT		DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	Table 504.3				
In Stories	Table 504.4				

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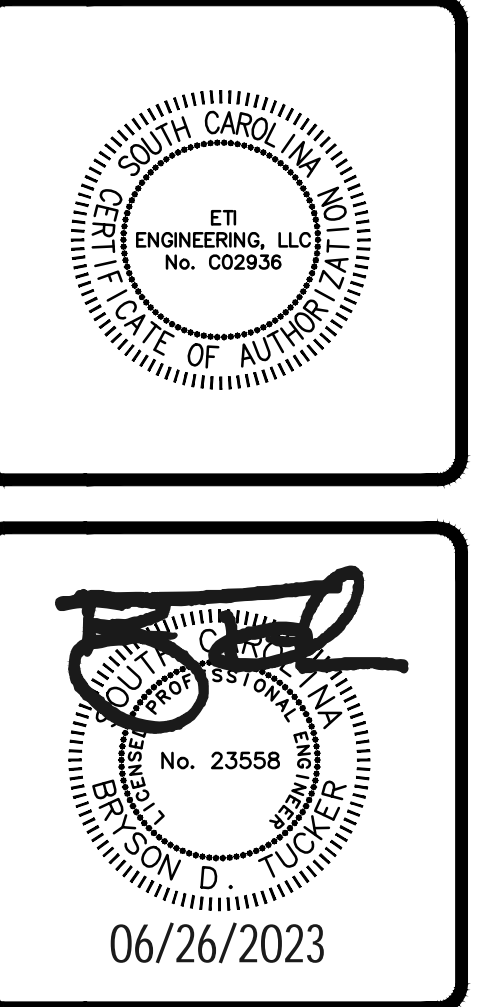
**SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION**  
**Form F3 – Building Code Analysis**

**ALARMS & DETECTION**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
ALARMS & DETECTION						
Fire Alarm and Detection System		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Fire Alarm Mass Notification	SCFC Section 907	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Emergency voice alarm comm.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Emergency Alarm System Required	SCFC Section 908	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
SUPPRESSION						
Automatic Sprinkler System Provided	SCFC Section 903	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Required		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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**eti**  
 ENGINEERING, LLC  
 5725 Bush River Road  
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WILLIAMSBURG COUNTY SCHOOL DISTRICT - DISTRICT OFFICE  
 FIRE ALARM SYSTEM REPLACEMENT  
 500 N Academy St., Kingstree, SC 29556  
 F3 FORMS - PAGES 1-9

DRAWN BY: TRL  
 CHECKED BY: BDT  
 REVISIONS:

**E1**  
 06/26/23



**Form F3 – Building Code Analysis**

Alternative Automatic Fire Extinguishing  
Kitchen Hood Other SCFC Section 904

Standpipes Required SCFC Section 905

Portable extinguishers required General Building Kitchen Labs SCFC Section 906

**OTHER FIRE AND LIFE SAFETY FEATURES**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Smoke Control System	Section 909	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Smoke & Heat Removal Required	SCFC 910	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Department Connections	Section 912	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carbon Monoxide Detection	Section 913	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gas Detection Systems	Section 916	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Responder Radio Coverage	Section 918	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Apparatus Access and Water Line	SCFC 503 & 507	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2-way Communication Required	Section 1009.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Area of Refuge (e.g. Separation, Two-Way Communication, and Instruction)	Sections 1009.6, 1009.9, 1009.10 & 1009.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exit Area for Assisted Rescue (e.g. Separation, Openness, and Instruction)	Sections 1009.7, 1009.9, 1009.10 & 1009.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safe Dispersal Area (Add others as needed)	Section 1028.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Add others as needed)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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**Form F3 – Building Code Analysis**

**FIRE RESISTANCE RATING OF BUILDING ELEMENTS**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Primary Structural Frame	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Bearing Walls, Exterior	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Bearing Walls, Interior	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Nonbearing Walls and Partitions, Interior	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					

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**Form F3 – Building Code Analysis**

**FIRE RESISTANCE RATING OF BUILDING ELEMENTS**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Nonbearing Walls and Partitions, Exterior	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Floor Construction and associated secondary members	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Roof Construction and associated secondary members	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Fire Walls	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					

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**Form F3 – Building Code Analysis**

**FIRE RESISTANCE RATING OF BUILDING ELEMENTS**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Fire Barriers	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Fire Partitions	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Smoke Barriers	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Smoke Partitions	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					

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**Form F3 – Building Code Analysis**

**FIRE RESISTANCE RATING OF BUILDING ELEMENTS**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Horizontal Assemblies	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Shaft Enclosures	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Opening & Protective Listing by Category (fire shutters, doors, etc.)	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					
Others (as required by Designer)	As Required, H <sub>ca</sub>					
	As Designed, H <sub>ca</sub>					
	Testing Agency & Design No.(UL, FM, etc) Wall Partition Key Code					

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**Form F3 – Building Code Analysis**

**FLOOD HAZARD INFORMATION and FLOOD LOADS**

FLOOD HAZARD AREA

Base Flood Elevation (NGVD or FIRM) MSL

Design Flood Elevation SCBC 1612.3 and ASCE 24 MSL

NON HIGH-VELOCITY WAVE ACTION

Elevation of Lowest Proposed Floor (Meet ASCE 24 Section 2.6.2.1) MSL

Dry flood proofing ASCE 24  no  yes

HIGH-VELOCITY WAVE ACTION

Elevation of bottom of Lowest Horizontal Structural Member of lowest floor MSL

Flotation resistant (ASCE 24)  no  yes

Breakaway wallper (ASCE 24)  no  yes

**FIRE SERVICE INFORMATION**

Service Line Size Inches

Fire Department Connection Location

Backflow Location Type Date

Fire Hydrant Flow Test Flow Residual Static GPM PSI PSI

**ENERGY INFORMATION**

**INSULATION**

Roof Cavity  R

Continuous  R

Walls Cavity  R

Continuous  R

Underlath  R

**GLAZING (each type)**

North  %

East  %

South  %

West  %

Window to wall ratio U Factor SHG

Glass Type

Summary of data from approved ASHRAE 90.1 compliance sheets.

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**Form F3 – Building Code Analysis**

Per IBC Chapter 16 and ASCE 7 – Structural tables may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

**STRUCTURAL DESIGN INFORMATION, AREA**

OCCUPANCY CATEGORY	Building Code Table	Area 1	Area 2	Area 3	Area 4	Area 5
LIVE LOAD FOR EACH OCCUPANCY TYPE	Floor Live Load, E <sub>f</sub> Figure 1604.5					
	Roof Live Load, E <sub>r</sub> ASCE 7					
	Ground Snow Load, E <sub>s</sub>					
MISCELLANEOUS LOADS BY SPECIAL USE AREA (ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC.)	ASCE 7					

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**Form F3 – Building Code Analysis**

**SOILS & SITE**

SOILS INVESTIGATION REQUIRED? (IBC 1803.2)  no  yes

**SOILS CLASSIFICATION**

Seismic Site Class (SCBC Section 1613.3.2)

Classes Soil of Materials (UCS Systems) (SCBC 1803.5.1)

Allowable Footing Bearing Pressure psf

**MINIMUM DESIGN SOIL BEARING LOAD, (SCBC Table 1806.2) psf**

**COMPACTION**

Subgrade (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads) %

Base (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads) %

Other (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads) %

**MINIMUM DESIGN SOIL LATERAL LOAD (SCBC 1610.1) psf**

**FOOTINGS**

Undisturbed footings  no  yes

Compacted Fill Material (SCBC Section 1804.6)  no  yes

**ELEVATIONS**

Elevation of Water Table MSL

Elevation of lowest footing MSL

Elevation of lowest floor or basement MSL

**STRUCTURAL DESIGN INFORMATION, BUILDING**

Analysis Procedure (ASCE 7 or SCBC 1609.6)

Basic design Wind Speed, MPH (3 see gust IBC Fig 1609.5) = V

WIND LOADS Exposure Category

Wind Importance Factor (ASCE 7 Table 1.5.2) = I<sub>w</sub>

Internal Pressure Coefficient (ASCE 7) = GC<sub>pi</sub>

External Pressure Coefficient (ASCE 7) = GC<sub>pe</sub>

Seismic Importance Factor (ASCE 7) = I

Site Class (SCBC Section 1613.3.2) = S<sub>1</sub>

Mapped Spectral Response Accelerations = S<sub>1</sub>

Design Spectral Response Acceleration Parameters = S<sub>1</sub>

SEISMIC LOADS/EARTHQUAKE Seismic Use Group (ASCE 7 and Seismic Occupancy Category IBC)

Seismic Design Category SCBC Tables 1613.3.5(1) & 1613.3.5(2)

Basic Seismic Force Resisting System = KIPS

Design Base Shear = C<sub>s</sub>

Seismic Response Coefficient(s) ASCE 7 = C<sub>v</sub>

Response Modification Factor(s) ASCE 7 Analysis Procedure = R

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**Form F3 – Building Code Analysis**

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 & Section 1705 of the 2018 South Carolina Building Code. Any deviations from the requirements of Section 1704 and/or Section 1705 must be approved by OSF. Per SCBC Chapter 16 and ASCE 7 – This information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

**STATEMENT OF SPECIAL INSPECTIONS**

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY

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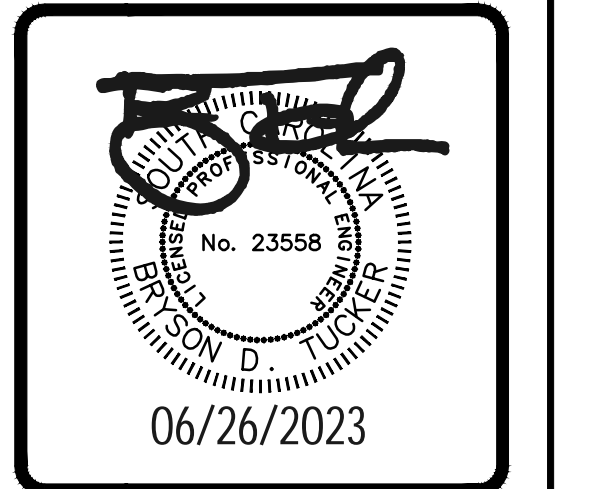
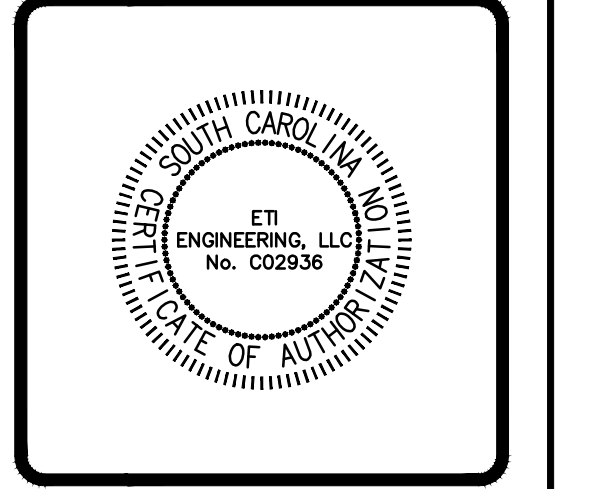


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ETI #2306-57503  
OSF # 4501-0211 (1799)



WILLIAMSBURG COUNTY SCHOOL DISTRICT - DISTRICT OFFICE  
FIRE ALARM SYSTEM REPLACEMENT  
500 N Academy St., Kingstree, SC 29556

F3 FORMS - PAGES 10-18

DRAWN BY: TRL  
CHECKED BY: BDT  
REVISIONS:

E2

06/26/23

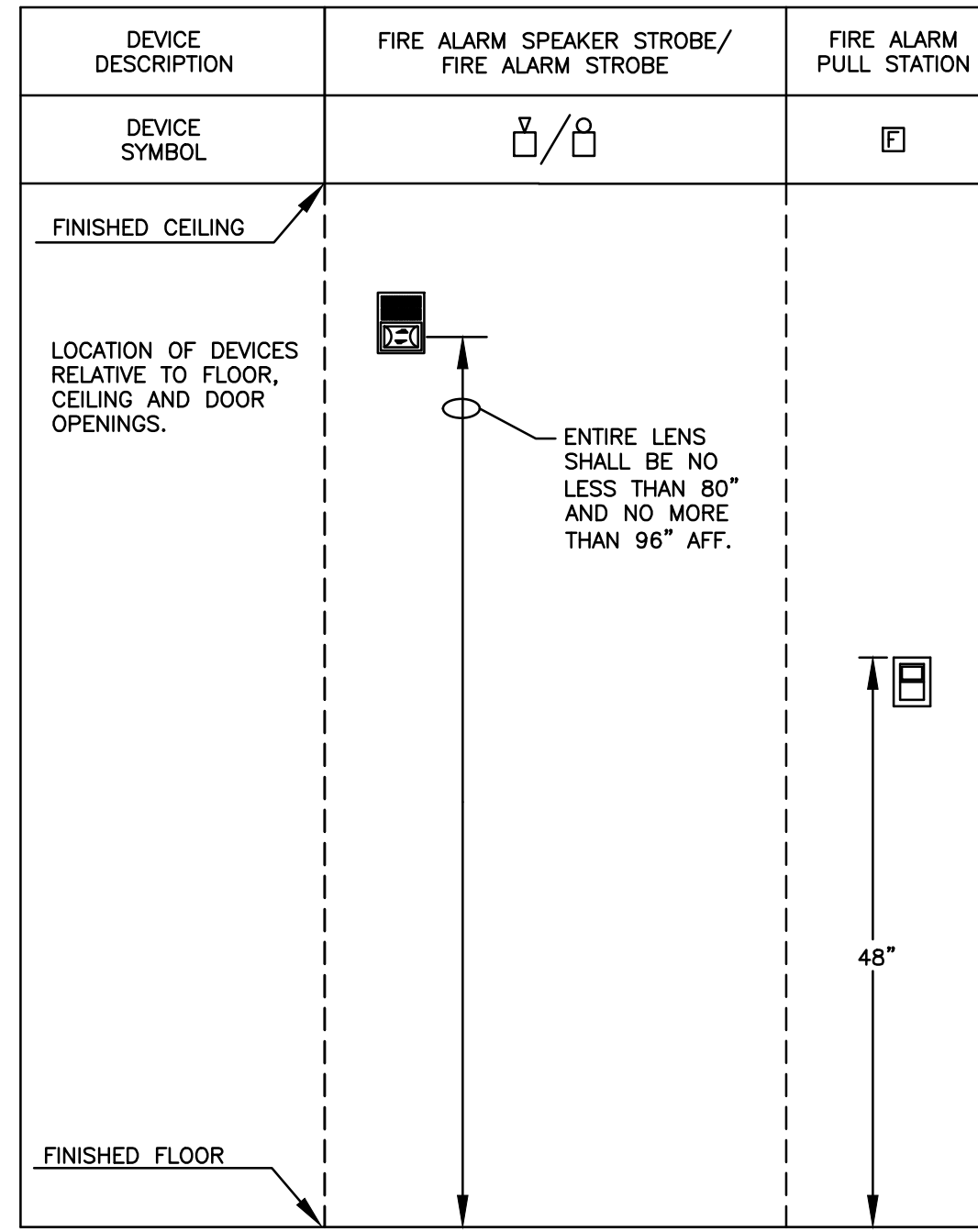






**GENERAL NOTES ALL DRAWINGS:**

- DO NOT SCALE DRAWINGS. LOCATE OUTLETS, EQUIPMENT AND OTHER ELECTRICAL DEVICES AS INDICATED AND COORDINATE WITH EXISTING CONDITIONS TO AVOID CONFLICT.
- PROVIDE PULL STRING IN ALL EMPTY RACEWAYS.
- OBTAIN ROUGHING DIAGRAMS FOR ALL EQUIPMENT AND INSTALL ELECTRICAL WORK ACCORDING TO DIAGRAMS.
- SEAL ALL PENETRATIONS TO RATED WALLS AND CEILINGS WITH UL LISTED FIREPROOFING SYSTEM. THIS IS TO INCLUDE BUT IS IN NO WAY LIMITED TO CONDUCTOR, RACEWAY AND DEVICE PENETRATIONS. SUBMIT PENETRATION LOCATIONS, SYSTEM AND INSTALLATION DETAILS AS PART OF AS-BUILT DRAWINGS.
- WHERE NOT INDICATED OTHERWISE, EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER NEC TABLE 250-122.
- ALL METAL CONDUITS 1" AND LARGER SHALL HAVE A GROUNDING BUSHING BONDING CONDUIT TO ENCLOSURE.
- REMOVE DRYWALL DUST AND MUD FROM THE INTERIOR OF BOXES BEFORE INSTALLING DEVICES.
- AT SUBSTANTIAL COMPLETION CLEAN ALL DEVICES IN THE CONSTRUCTION AREAS. REPLACE DAMAGED DEVICES AND DEVICE PLATES AS NEEDED.
- CONCEAL ALL CONDUIT AND RACEWAY. IF CONDITIONS REQUIRE CONDUIT OR RACEWAY TO BE RUN EXPOSED, USE SINGLE-CHANNEL, ONE-PIECE STEEL SURFACE RACEWAY (WIREMOLD 500/700 SERIES OR EQUIVALENT).
- ALL RACEWAYS TRANSITIONING BETWEEN CONDITIONED AND UNCONDITIONED SPACES AND RACEWAYS EXITING BUILDING SHALL BE SEALED IN ACCORDANCE WITH NEC. USE POLYWATER FST DUCT SEALANT SYSTEM OR EQUIVALENT.
- ELECTRICAL WORK SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES, REQUIREMENTS AND ORDINANCES.
- ALL BACKBOXES SHALL BE MINIMUM 4" SQUARE.
- ALL EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE WITH INSULATED THROAT.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- FIREWALLS WERE IDENTIFIED FROM OWNER PROVIDED EXISTING DRAWINGS AND FIELD INVESTIGATIONS. CONTRACTOR SHALL MARK ANY IDENTIFIED RATED WALLS DISCOVERED DURING INSTALLATION AND ANY PENETRATIONS TO RATED WALLS.



\*\*\*\*ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS\*\*\*\*  
NOTE: WHERE WALL BLOCKING INTERFERES WITH EXACT MOUNTING HEIGHTS,  
CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT  
PRIOR TO ROUGH-IN.

**DEVICE MOUNTING HEIGHTS**  
NO SCALE

**OCCUPANT LOAD INFORMATION**

AREA 1 & 2 - THE TOTAL BUILDING SQ. FT. IS APPROXIMATELY 31,374.  
AREA 1 & 2 - APPLYING IBC OF 20 SQ. FT. PER OCCUPANT:  
MAXIMUM TOTAL OCCUPANTS = 1,568

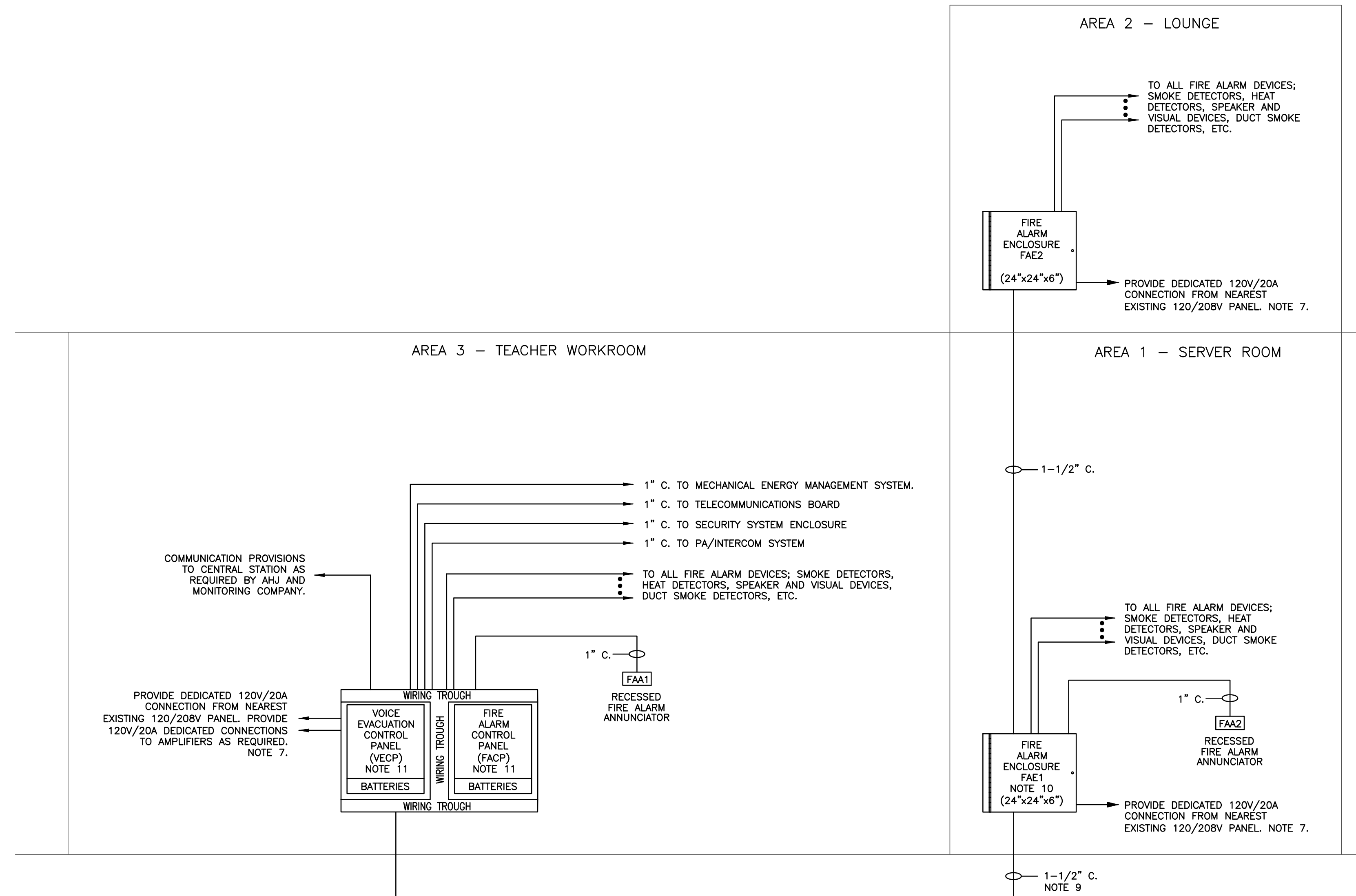
AREA 3 - THE TOTAL BUILDING SQ. FT. IS APPROXIMATELY 23,471.  
AREA 3 - APPLYING IBC OF 20 SQ. FT. PER OCCUPANT:  
MAXIMUM TOTAL OCCUPANTS = 1,173

TOTAL OCCUPANTS (AREAS 1,2,3) = 2,741

**FIRE ALARM SYMBOL SCHEDULE**

	FIRE ALARM PULL STATION. SEE SPECIFICATIONS.
	FIRE ALARM SPEAKER/STROBE. NUMBER INDICATES CANDELA RATING. SEE SPECIFICATIONS. SPEAKER SHALL BE SET TO 1/4W SETTING, UNLESS OTHERWISE NOTED.
	FIRE ALARM STROBE ONLY. NUMBER INDICATES CANDELA RATING. SEE SPECIFICATIONS.
	FIRE ALARM SPEAKER ONLY. SEE SPECIFICATIONS.
	FIRE ALARM CEILING MOUNTED SPEAKER/STROBE. NUMBER INDICATES CANDELA RATING. SEE SPECIFICATIONS. SPEAKER SHALL BE SET TO 1/4W SETTING, UNLESS OTHERWISE NOTED.
	FIRE ALARM CEILING MOUNTED STROBE ONLY. NUMBER INDICATES CANDELA RATING. SEE SPECIFICATIONS.
	FIRE ALARM CEILING MOUNTED SPEAKER ONLY. SEE SPECIFICATIONS.
	CEILING MOUNTED SMOKE DETECTOR. SEE SPECIFICATIONS.
	CEILING MOUNTED HEAT DETECTOR. SEE SPECIFICATIONS.
	CEILING MOUNTED FIRE/CARBON MONOXIDE DETECTOR WITH SOUNDER BASE (TEMPORAL 4 PATTERN). SEE SPECIFICATIONS.
	MAIN FIRE ALARM CONTROL PANEL. SEE RISER DIAGRAM AND SPECIFICATIONS.
	VOICE EVACUATION CONTROL PANEL. SEE RISER DIAGRAM AND SPECIFICATIONS.
	FIRE ALARM ANNUNCIATOR, REMOTE PANEL. SEE SPECIFICATIONS.
	MONITORING MODULE. INTERFACE WITH FIRE ALARM SYSTEM FOR MONITORING.

\*\* ALL SPEAKERS SHALL BE SET TO 1/4W SETTING, UNLESS OTHERWISE NOTED.



**FIRE ALARM SYSTEM WITH VOICE EVACUATION RISER DETAIL**  
NO SCALE

- NOTES TO FIRE ALARM RISER DIAGRAM:**
- ALL CABLING SHALL BE INSTALLED IN CONDUIT. ALL FIRE ALARM SYSTEM CONDUITS SHALL BE RED IN COLOR AND 3/4" UNLESS NOTED OTHERWISE. FIRE ALARM TYPE MC-FPLP IS MINIMUM ALLOWED PER CODE AND OSF GUIDELINES.
  - FIRESTOP ALL CONDUITS THROUGH FIRE RATED FLOORS, FIREWALLS AND RATED CEILINGS.
  - ALL MECHANICAL UNITS SHALL SHUT DOWN WITH ACTIVATION OF FIRE ALARM SYSTEM.
  - PROVIDE OUTPUTS IN FIRE ALARM SYSTEM, MATERIALS, PROGRAMMING AND OTHER WORK REQUIRED FOR THE OPERATION OF SMOKE AND FIRE/SMOKE DAMPERS FURNISHED BY THE MECHANICAL CONTRACTOR.
  - APPROVAL AND PERMIT TO BE OBTAINED FROM AHJ PRIOR TO STARTING ANY WORK.
  - PROVIDE ALL WORK AND MATERIALS AS REQUIRED FOR CENTRAL STATION MONITORING INCLUDING COMMUNICATIONS LINES AND CONNECTIONS.
  - LABEL CIRCUIT BREAKER AND PROVIDE LOCKING PROVISIONS PER NFPA 72.
  - PROVIDE DOCUMENT BOX PER NFPA 72 WITH MEMORY STICK CONTAINING COPY OF PROGRAMMING AND ALL RECORD DRAWINGS AND UPDATED APPROVED SUBMITTALS.
  - COORDINATE INSTALLATION OF CONDUIT AND UNDERGROUND ROUTING WITH OWNER. RACEWAYS EXITING/ENTERING BUILDING SHALL BE SEALED IN ACCORDANCE WITH NEC. USE POLYWATER FST DUCT SEALANT SYSTEM OR EQUIVALENT.
  - CONTRACTOR MAY ELECT TO PROVIDE A SECOND FACP/VECP AND CONNECT THE TWO WITH FIBER.
  - THE FACP/VECP MAY BE HOUSED IN ONE PANEL DEPENDING ON SYSTEM BEING INSTALLED.



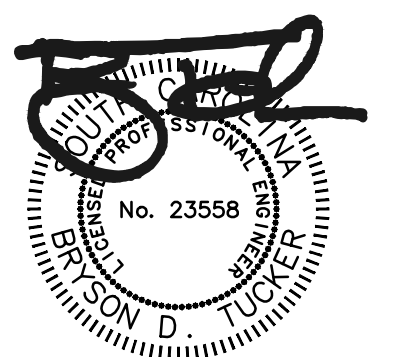
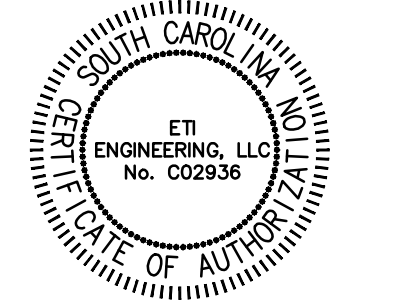
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Project Manager:  
Troy Lowder, PE x105

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OSF # 4501-0211 (1799)



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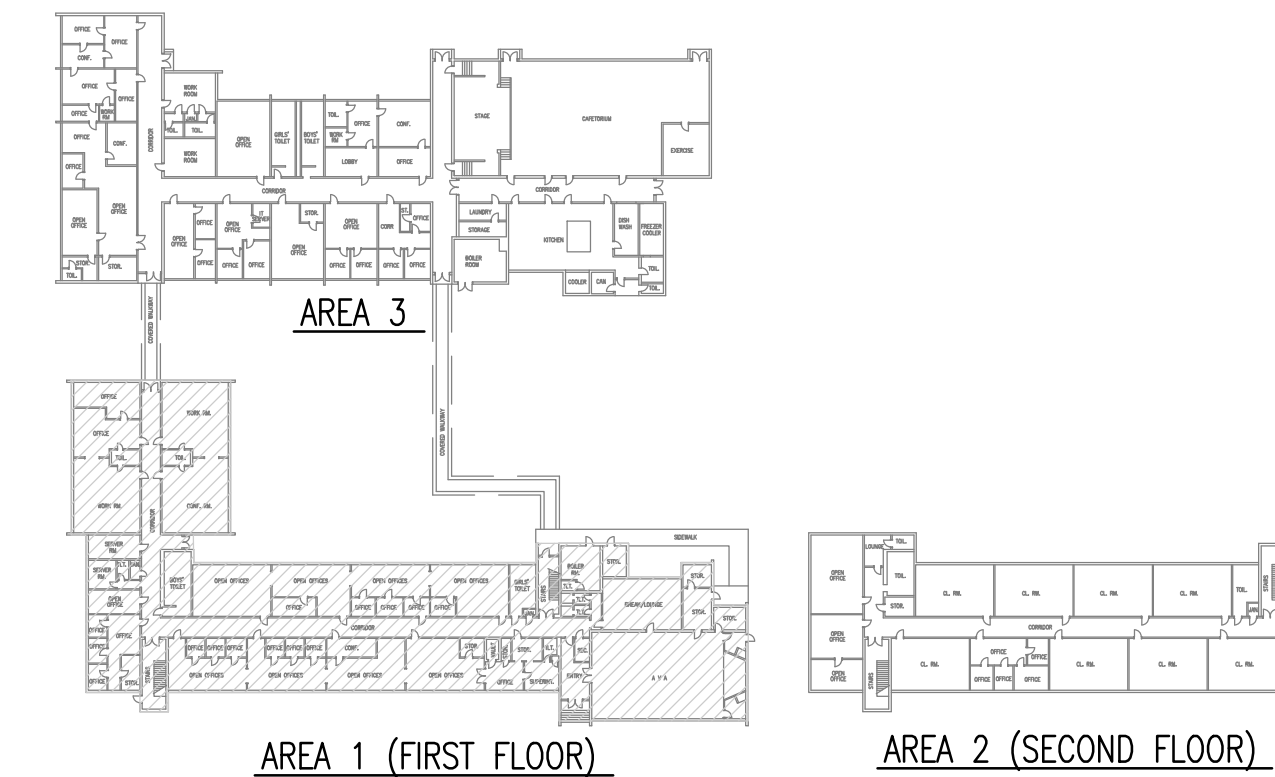
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FIRE ALARM SYSTEM REPLACEMENT  
500 N Academy St., Kingstree, SC 29556

SCHEDULES & DETAILS

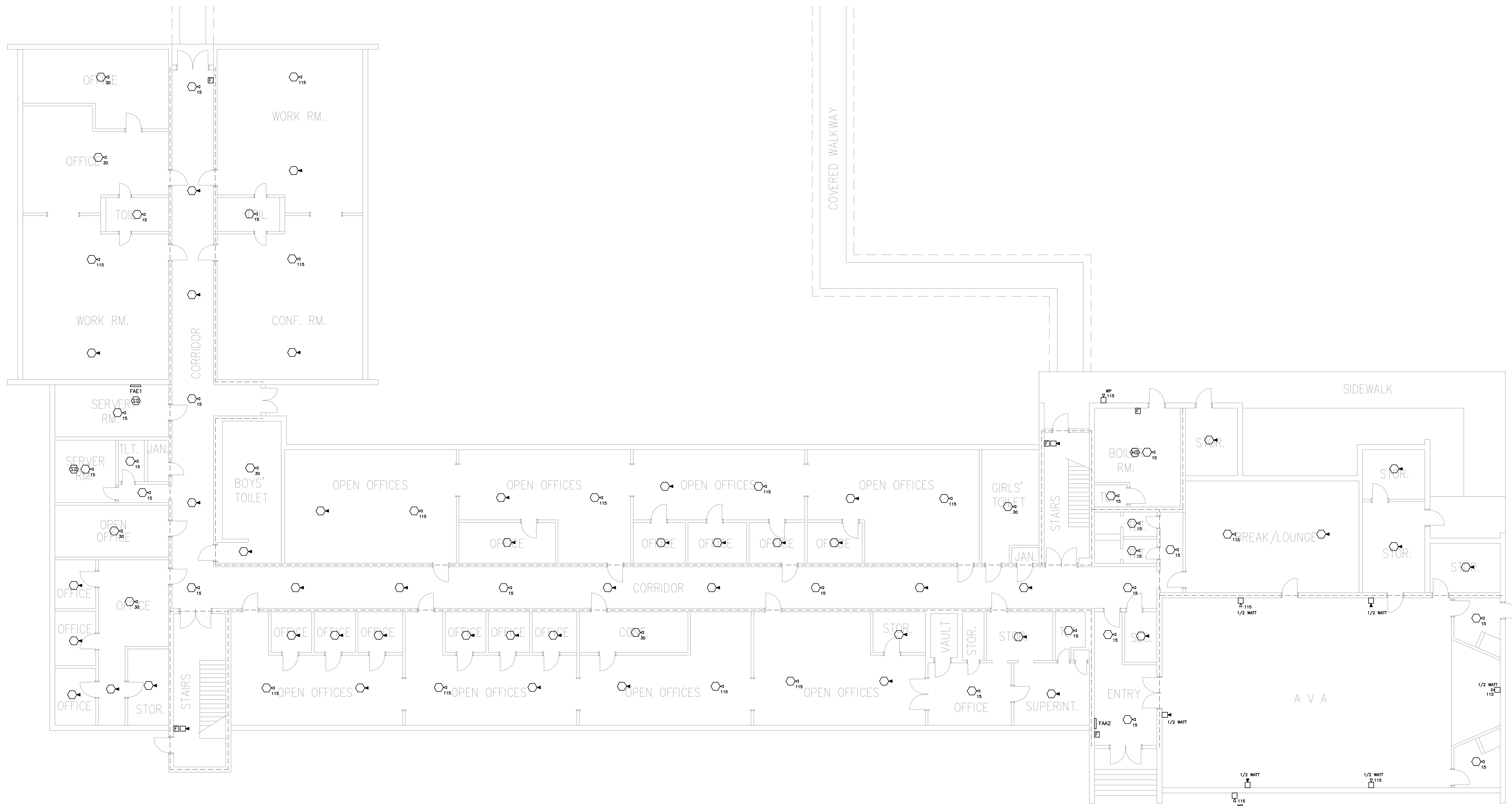
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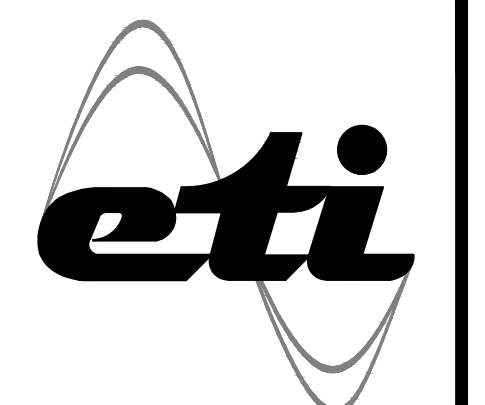
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KEY PLAN  
NOT TO SCALE



1 FIRE ALARM SYSTEM PLAN - AREA 1 (FIRST FLOOR)  
E5 APPROXIMATE SCALE: 1/8" = 1'-0"



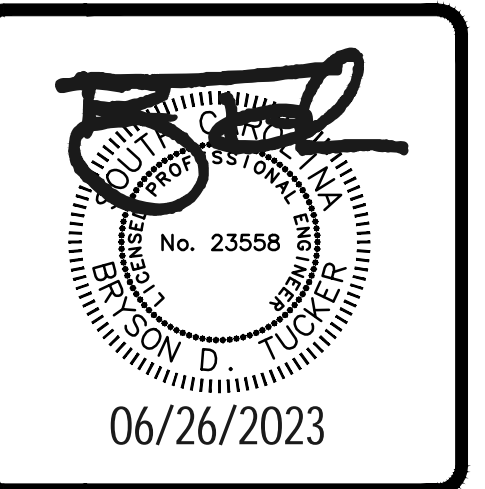
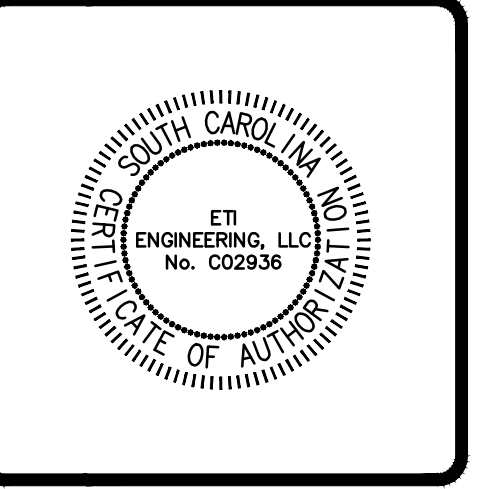
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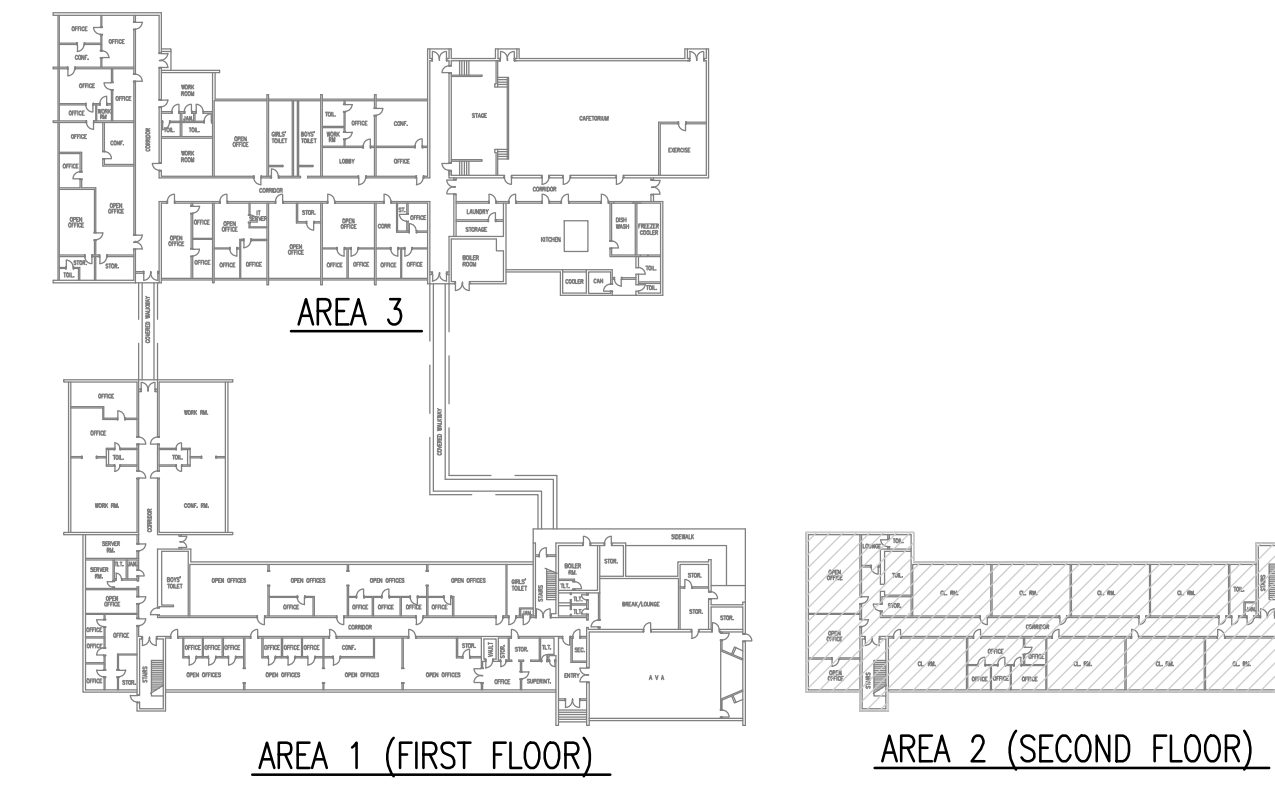
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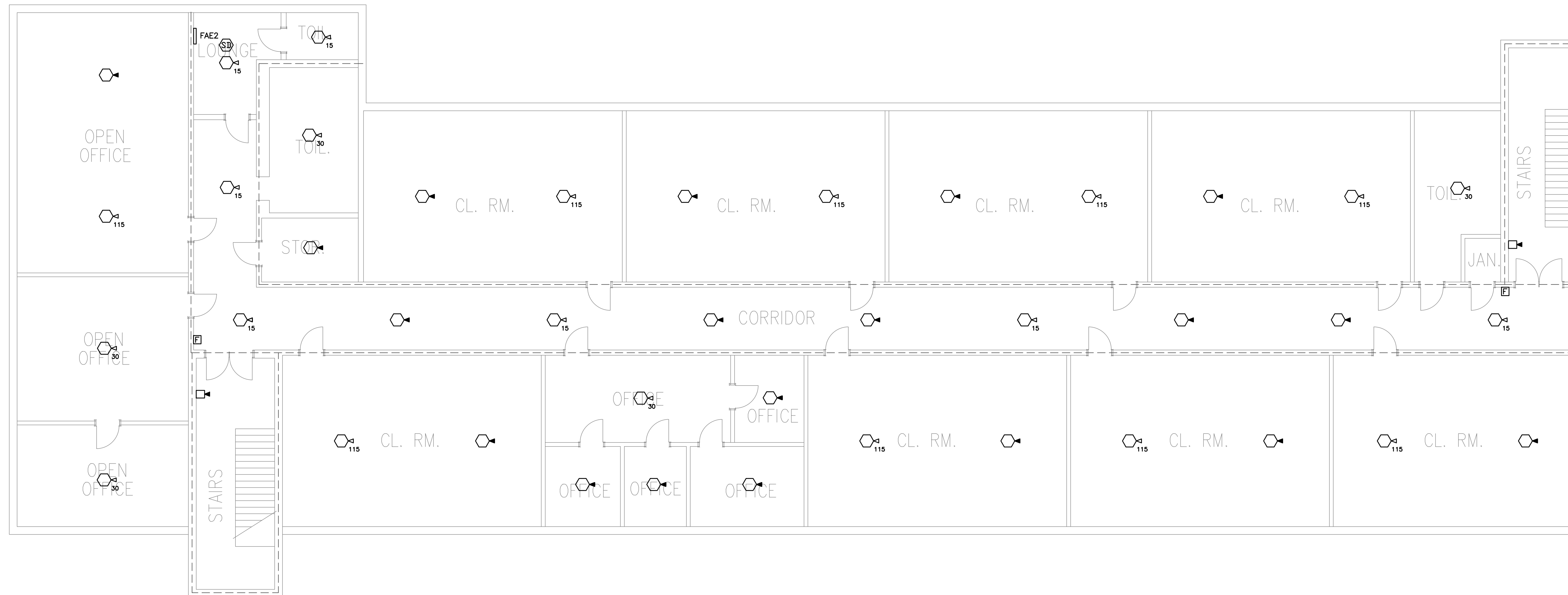
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FIRE ALARM SYSTEM REPLACEMENT  
500 N Academy St., Kingstree, SC 29556  
FIRE ALARM SYSTEM PLAN - AREA 1 (FIRST FLOOR)

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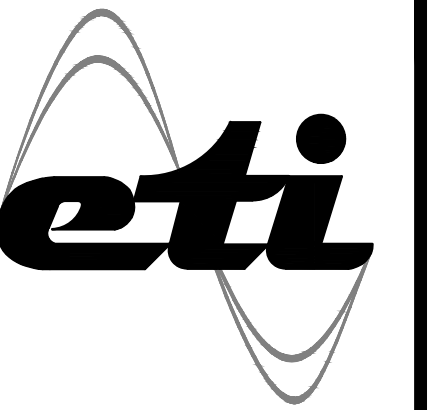
E5  
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KEY PLAN  
NOT TO SCALE



1 FIRE ALARM SYSTEM PLAN - AREA 2 (SECOND FLOOR)  
E6 APPROXIMATE SCALE: 1/8" = 1'-0"



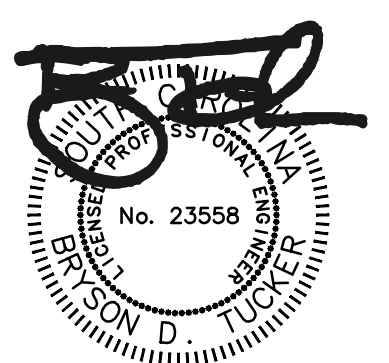
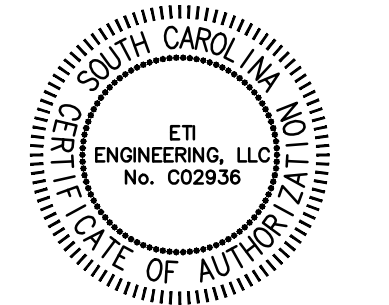
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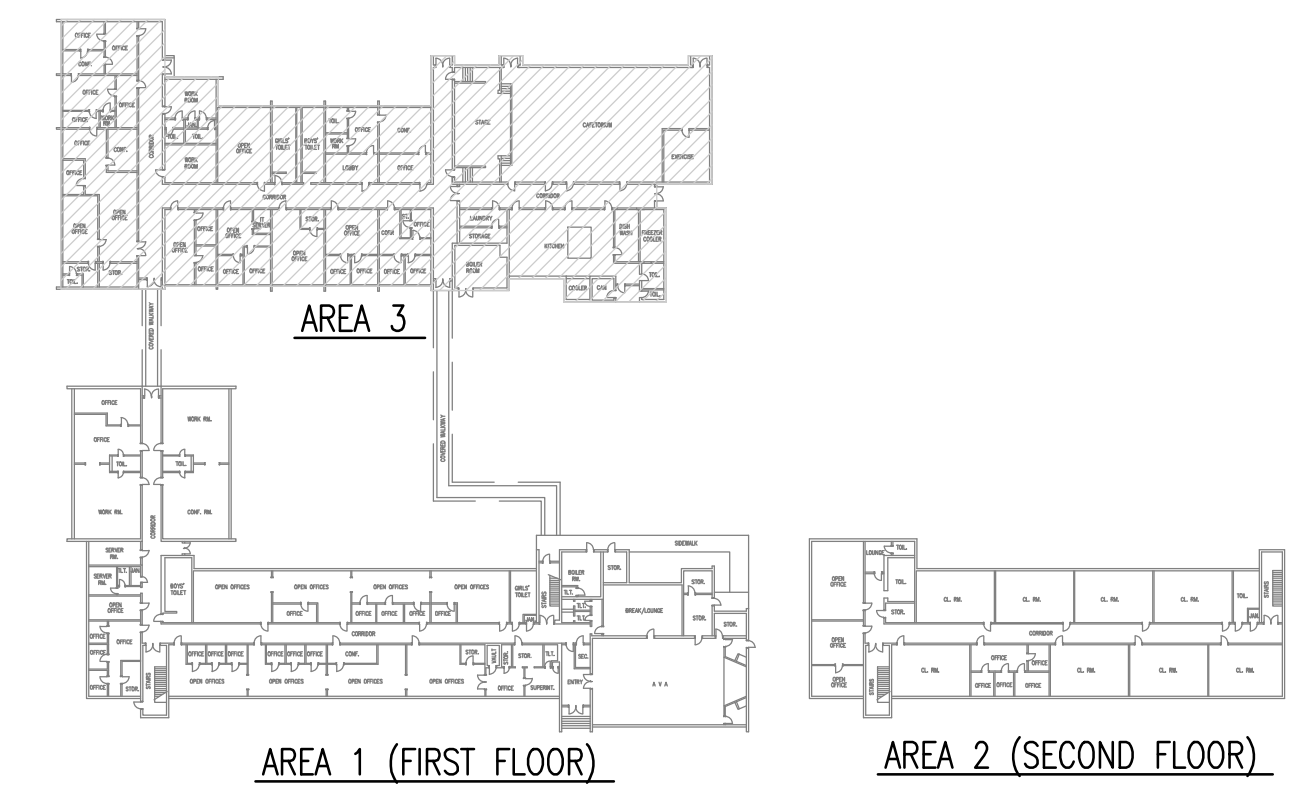
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FIRE ALARM SYSTEM REPLACEMENT  
500 N Academy St., Kingstree, SC 29556  
FIRE ALARM SYSTEM PLAN - AREA 2 (SECOND FLOOR)

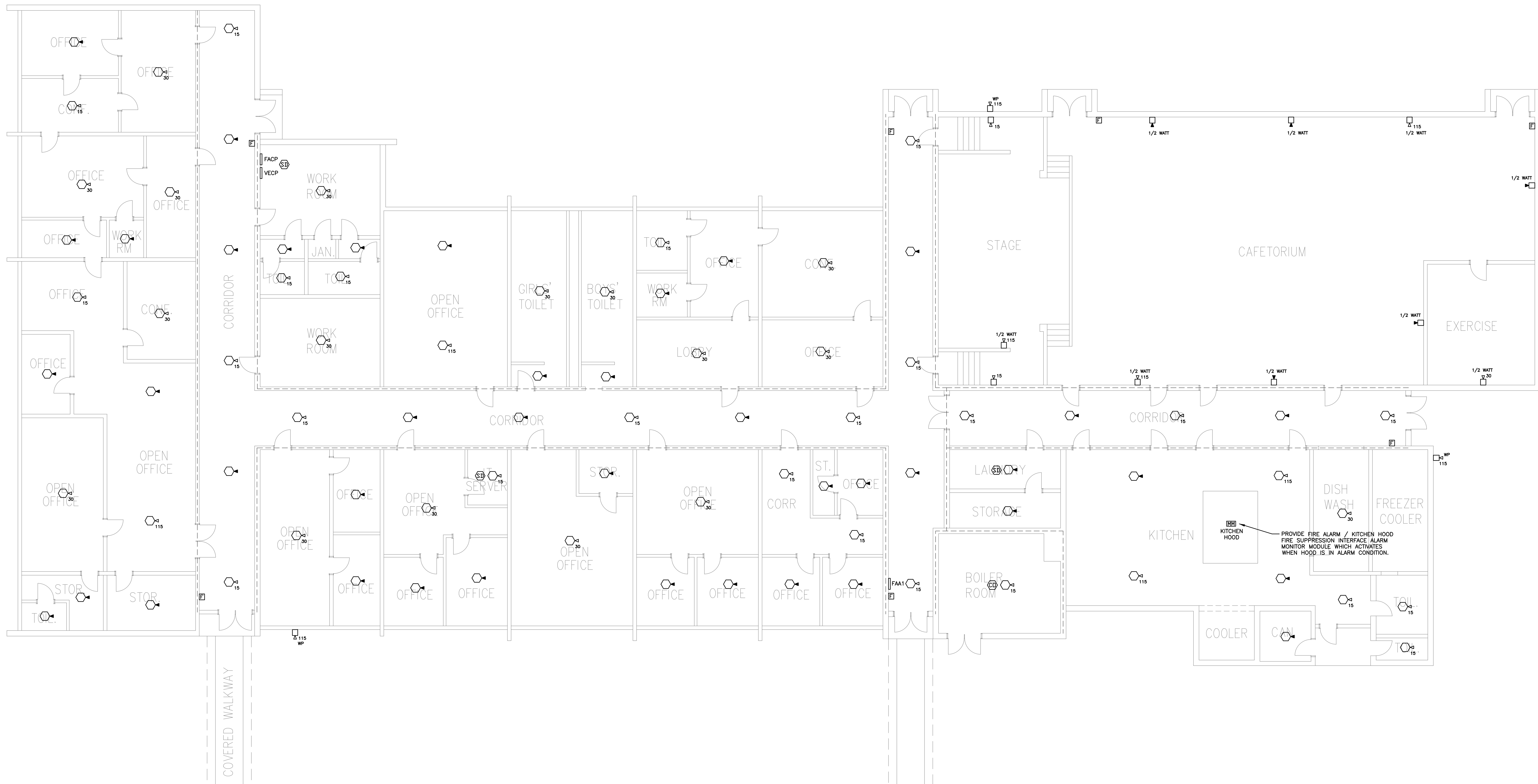
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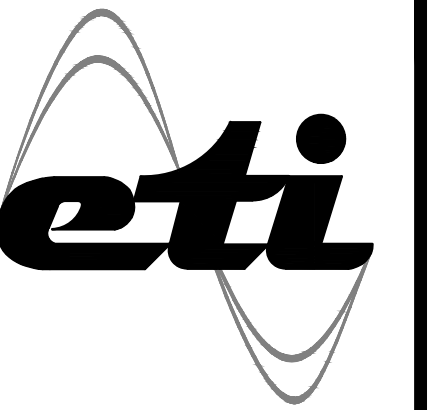
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KEY PLAN  
NOT TO SCALE



1 FIRE ALARM SYSTEM PLAN - AREA 3  
E7 APPROXIMATE SCALE: 1/8" = 1'-0"



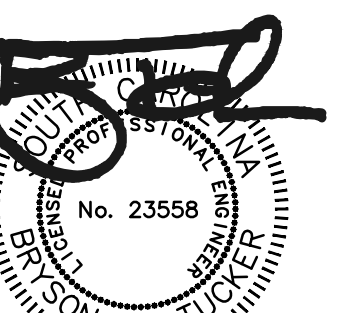
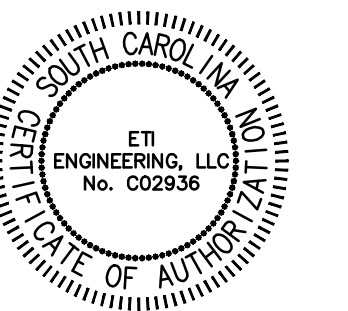
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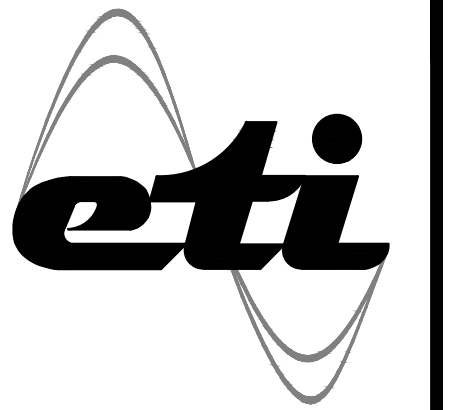
FIRE ALARM SYSTEM PLAN - AREA 3

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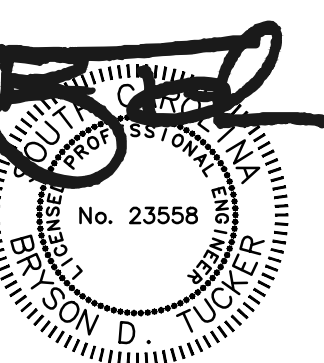
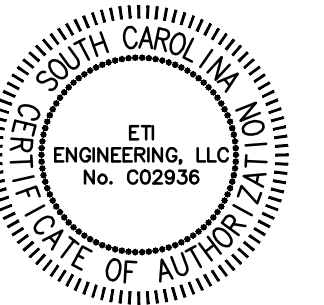
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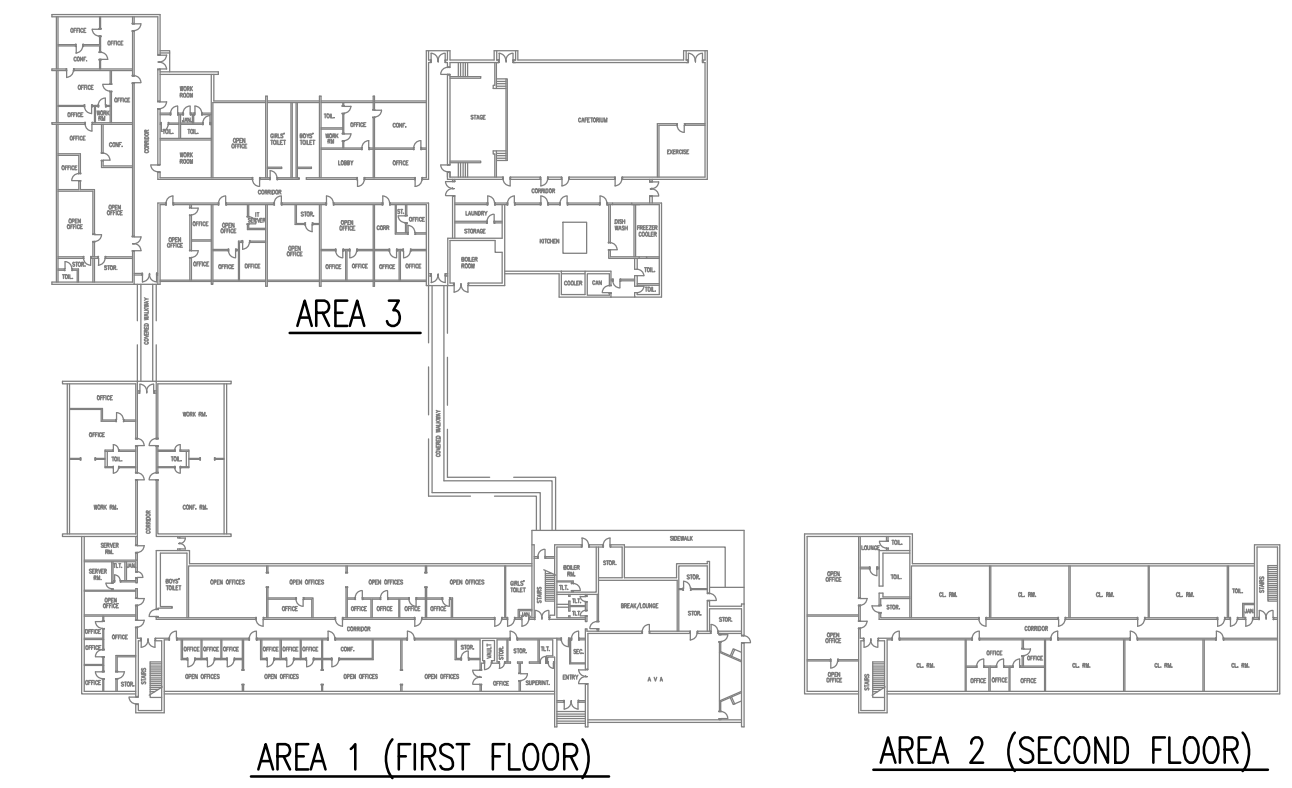
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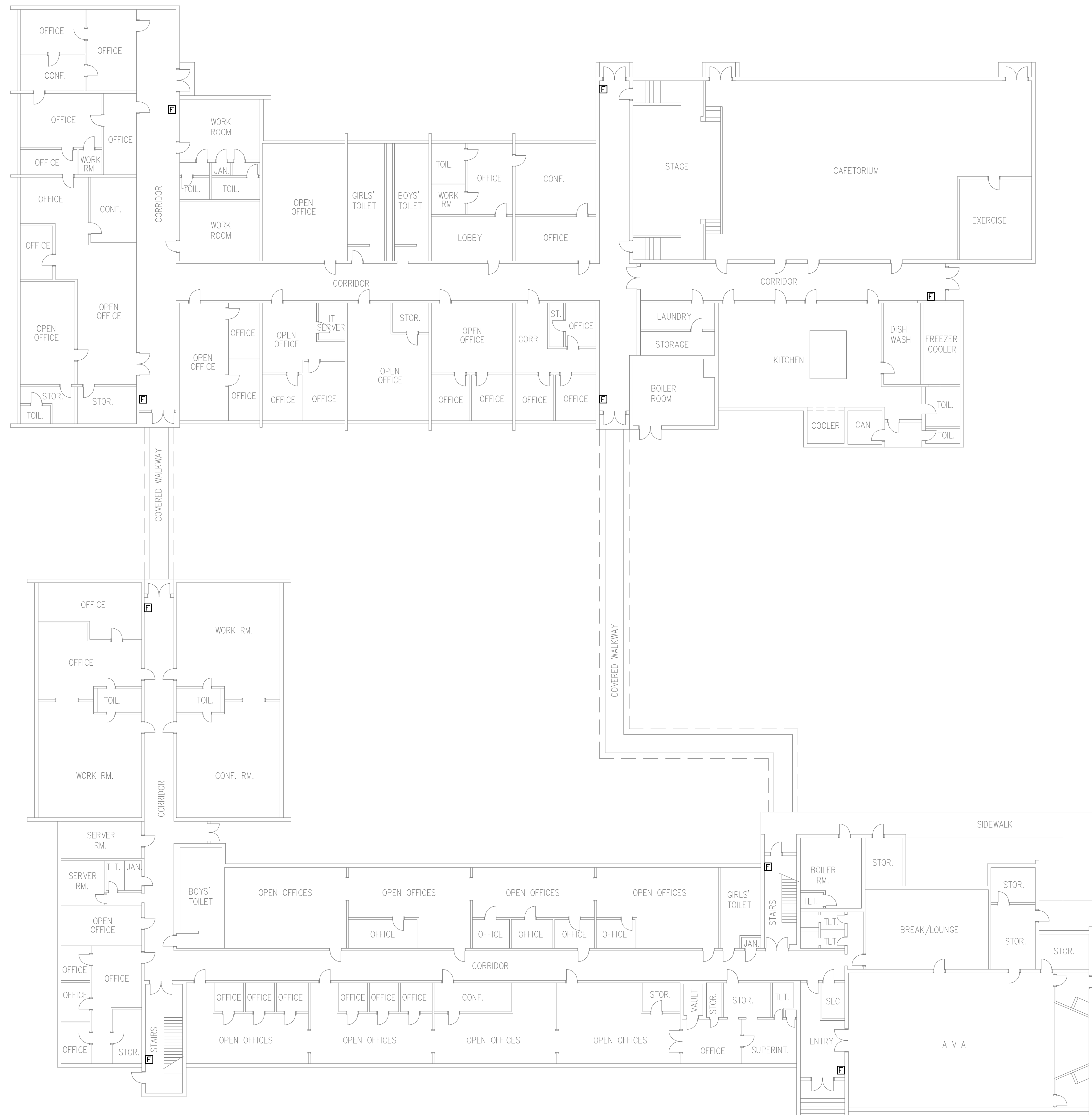
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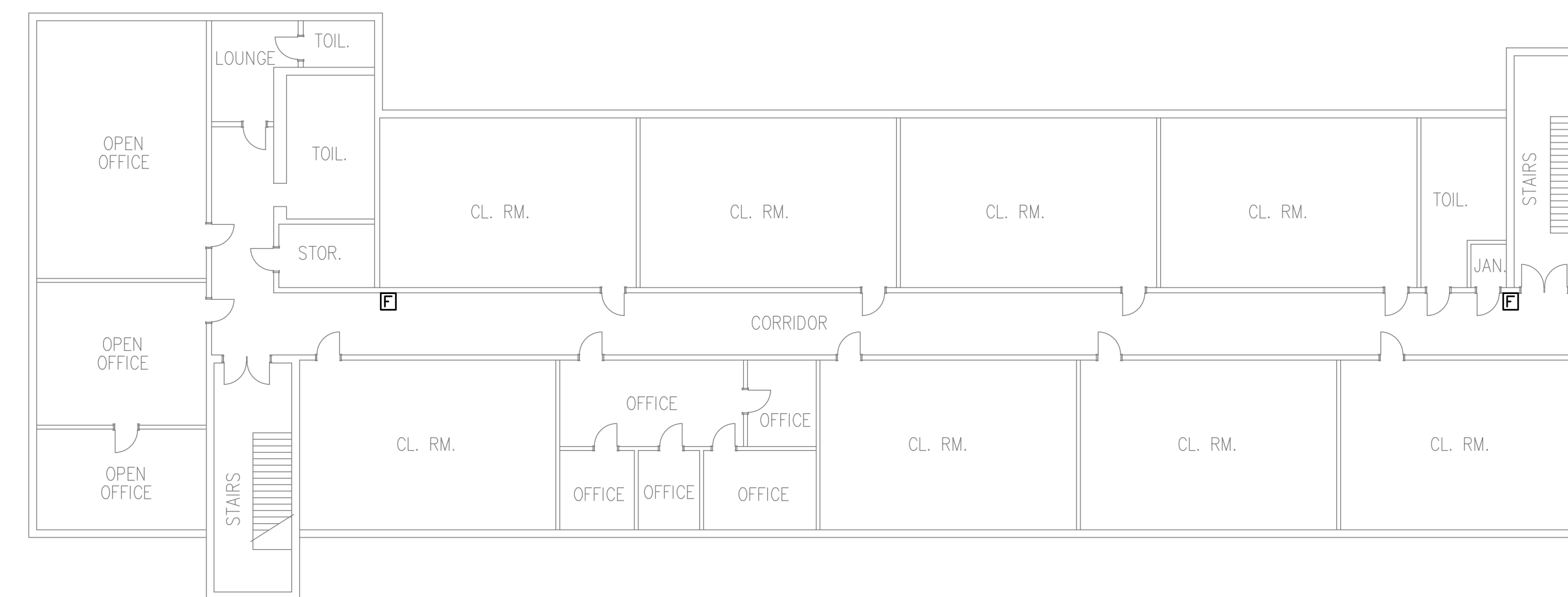
KEY PLAN  
NOT TO SCALE



FIRE ALARM DEMOLITION SYMBOL SCHEDULE	
	EXISTING FIRE ALARM PULL STATION.
	EXISTING FIRE ALARM SPEAKER/STROBE.
	EXISTING FIRE ALARM STROBE ONLY.
	EXISTING CEILING MOUNTED SMOKE DETECTOR.
	EXISTING MAIN FIRE ALARM CONTROL PANEL.
	EXISTING FIRE ALARM REMOTE ANNUNCIATOR PANEL.

GENERAL FIRE ALARM SYSTEM DEMOLITION NOTES:

1. FIRE ALARM SYSTEM DEMOLITION SHALL ONLY BEGIN ONCE THE NEW FIRE ALARM SYSTEM HAS BEEN APPROVED AND IN OPERATION. DEMOLITION INCLUDES REMOVAL OF ALL EXISTING DEVICES FROM WALLS AND CEILINGS. REMOVE BACKBOXES, CONDUITS AND CONDUCTORS THAT ARE REASONABLY ACCESSIBLE WITHOUT DISTURBING OTHER BUILDING COMPONENTS AND SYSTEMS.
2. CAREFULLY REVIEW DEMOLITION PLANS. EXAMINE WORK TO BE DONE AND PROVIDE ALL WORK REQUIRED FOR DEMOLITION. CONTRACTOR IS CAUTIONED TO VISIT SITE PRIOR TO BID AND INCLUDE IN BID RELOCATION OF ALL EXISTING ELECTRICAL WORK AS REQUIRED FOR THE NEW ADDITION.
3. CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR IDENTIFICATION OF EXISTING DEVICES TO BE REMOVED. IN GENERAL, EXISTING DEVICES ARE IDENTIFIED ON THE DEMOLITION PLAN, BUT SHALL BE VERIFIED BY THE CONTRACTOR.
4. ALL SURFACE MOUNTED RACEWAYS ASSOCIATED WITH THE EXISTING SYSTEM SHALL BE REMOVED.
5. PROVIDE BLANK COVER PLATE FOR ALL UNUSED BOXES.



WILLIAMSBURG COUNTY SCHOOL DISTRICT - DISTRICT OFFICE  
FIRE ALARM SYSTEM REPLACEMENT  
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DEMOLITION FIRE ALARM SYSTEM PLAN

DRAWN BY: TRL  
CHECKED BY: BDT  
REVISIONS:

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