SUMMER PROJECT

Aynor High School Auditorium Renovations

201 Jordanville Road
Aynor, South Carolina 29511
PIN 23500000032

Owner	Horry County Schools
Architecture	D3G Architects LLC
Structural Engineering	Wingate Consulting Engineers, Inc.
Electrical and Plumbing Engineering	McKnight Smith Ward Griffin, Inc.

List of Drawings

Architectural

A0.01 OSF FORM F3
A0.02 OSF FORM F3 & SCHOOL MAP
A1.00 EXISTING CONDITIONS FLOOR PLAN
A1.01 DEMOLITION PLAN
A1.02 CONSTRUCTION PLAN
A1.03 DETAILS & SEATING PLAN

Structural

S1.01 GENERAL NOTES & FOUNDATION SECTION
S2.01 FOUNDATION PLAN

Plumbing

P1.01 PLUMBING DEMOLITION PLAN
P2.01 PLUMBING RENOVATION PLAN
P3.01 SCHEDULES & SPECIFICATIONS

Electrical

E1.01 SYMBOLS, SCHEDULES & DETAILS
E2.01 ELECTRICAL DEMOLITION PLAN
E3.01 ELECTRICAL RENOVATION PLAN

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Myrtle Beach South Carolina
101099

REGISTERED ARCHITECT SOUTH CAROLINA
DAVID SULLIVAN GLYMPH
LICENSE No. 3943

PROJECT TITLE
Aynor High School Auditorium Renovations

AYNOR HIGH SCHOOL
201 Jordanville Rd.
Aynor, SC 29511

FILE NUMBER 2321

SHEET TITLE:
COVER

DATE 04.30.2024

SHEET NUMBER
A0.00

SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

Date: 4/1/24

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:							

PROJECT DESCRIPTION: *[Brief Scope of Work & Include project delivery method (i.e. CMR, etc.)]*
Renovations to the Aynor High School Auditorium including new aisle lighting, handrails, restroom renovations, and finishes. Single Prime competitive bid.

BASIC BUILDING CODE INFORMATION

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
	-	☐ SCBC ☒ SCEBC	☐ SCBC ☐ SCEBC	☐ SCBC ☐ SCEBC	☐ SCBC ☐ SCEBC	☐ SCBC ☐ SCEBC
CONSTRUCTION CLASSIFICATION TYPE	**Section 602**	II-B				
OCCUPANCY GROUP (indicate all)	**Section 302**	E				
MOST RESTRICTIVE OCCUPANCY GROUP	**Tables 504.3, 504.4 & 506.2**	E				
Does building require Incidental Use Area Separation?	**Table 509**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Does building have Accessory Occupancy (ies)?	**Section 508.2**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
What is the aggregate square footage of the accessory occupancy (ies)?	**Section 508.2**	N/A SF	SF	SF	SF	SF
What percent of the story is the aggregate of the accessory occupancy (ies)?	**Section 508.2**	N/A %	%	%	%	%
	Section 508	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO

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Mixed Occupancy		☐ Nonseparated ☐ Separated	☐ Nonseparated ☐ Separated	☐ Nonseparated ☐ Separated	☐ Nonseparated ☐ Separated	☐ Nonseparated ☐ Separated

EXISTING BUILDING CODE INFORMATION [SCEBC]

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.*)	☒ Option 1: Prescriptive Compliance Method **(Ch. 3, 5)** ☒ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method **(Ch. 3, 5)** ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method **(Ch. 3, 5)** ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building
	☐ Option 2: Work Area Compliance Method **(Ch. 3, 6-12)** ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: Work area:	☐ Option 2: Work Area Compliance Method **(Ch. 3, 6-12)** ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method **(Ch. 3, 6-12)** ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF
	☐ Option 3: Performance Compliance Method **(Ch. 3, 13)**	☐ Option 3: Performance Compliance Method **(Ch. 3, 13)**	☐ Option 3: Performance Compliance Method **(Ch. 3, 13)**
Original Building Code and Edition Applicable at the time of Construction:	1988 SBC w/ 1989 and 1990 rev.		
Existing Sprinkler System?	☒ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☒ Auto	☐ Manual ☐ Auto	☐ Manual ☐ Auto

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Seismic Evaluation Required?	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO
Change of Occupancy:	☐ YES ☒ NO Existing Occupancy Class(s):N/A New Occupancy Classification(s):N/A	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):
Historic Building:	☐ YES ☒ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

EXISTING BUILDING CODE INFORMATION [SCEBC]

DESIGNATED AREAS OF BUILDING	Area 4	Area 5
Method of Compliance: (*Check only one Option and all items that apply under that Option.*)	☒ Option 1: Prescriptive Compliance Method **(Ch. 3, 5)** ☒ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method **(Ch. 3, 5)** ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building
	☐ Option 2: Work Area Compliance Method **(Ch. 3, 6-12)** ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building	☐ Option 2: Work Area Compliance Method **(Ch. 3, 6-12)** ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building

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	Aggregate area of building: Work area:	Aggregate area of building: SF Work area: SF
	☐ Option 3: Performance Compliance Method **(Ch. 3, 13)**	☐ Option 3: Performance Compliance Method **(Ch. 3, 13)**
Original Building Code and Edition Applicable at the time of Construction:	1988 SBC w/ 1989 and 1990 rev.	
Existing Sprinkler System?	☒ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☒ Auto	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ YES ☒ NO	☐ YES ☐ NO
Change of Occupancy:	☐ YES ☒ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Classification(s): New Occupancy Classification(s):
Historic Building:	☐ YES ☒ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

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SUMMARY - BUILDING DESIGN OCCUPANT LOAD

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4
1st FLOOR	16,811			
2nd FLOOR				
3rd FLOOR				
4th FLOOR				
TOTAL:	16811	0	0	0

Note: Per SC Building Code Chapter 10, list individual spaces occupant load on life safety plan. ***Double Click to Edit Table.***

ALLOWABLE BUILDING AREA

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

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A_t Tabular allowable area factor (NS, S1, S13R or SM as applicable) in accordance with IBC Table 506.2	A_t = 58,000 SF	A_t = SF	A_t = SF	A_t = SF	A_t = SF
Allowable Area Increase (Equations 5-1 through 5-5, as applicable)	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
IBC Section 506.3.2 Equation 5-4 where: **$W = (L_1 \times w_1 + L_2 \times w_2 + L_3 \times w_3 + \ldots) / F$**	L_a = N/A	L_a =	L_a =	L_a =	L_a =
W = Width of public way or open space	w_a = N/A	w_a =	w_a =	w_a =	w_a =
L_a Length of a portion of the exterior perimeter wall.	W = N/A	W =	W =	W =	W =
w_a Width (>= 20 feet) of public way or open space associated with that portion of the exterior perimeter wall.	F = N/A	F =	F =	F =	F =
F Building perimeter that fronts on a public way or open space having a width of 20 feet or more	P =N/A	P =	P =	P =	P =
IBC Section 506.3.3 Equation 5-5 where: **$I_f = [(P/P - 0.25] W/30$**	I_f = N/A	I_f =	I_f =	I_f =	I_f =
I_f = Area factor increase factor due to frontage					
F Building perimeter that fronts on a public way or open space having a width of 20 feet or more.					
P Perimeter of entire building (feet).					
W Width of public way or open space in accordance with Equation 5-4					

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Allowable building area per story in square feet as calculated by Equations 5-1 through 5-3. (Indicated equation used.)	N_s = N/A	N_s =	N_s =	N_s =	N_s =
☐ IBC Section 506.2.1 Equation 5-1 **$A_a = [A_t + (N_s \times I_f)]$**					
☐ IBC Section 506.2.3 Equation 5-2 **$A_a = [A_t + (N_s \times I_f)] \times S_a$**	S_a = N/A	S_a =	S_a =	S_a =	S_a =
☐ IBC Section 506.2.4 Equation 5-3 **$A_a = [A_t + (N_s \times I_f)]$**					
N_s Tabular allowable area factor in accordance with Table 506.2 for a non-sprinklered building *(regardless of whether the building is sprinklered)*					
S_a 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).	A_a = N/A SF	A_a = SF	A_a = SF	A_a = SF	A_a = SF
MAXIMUM AREA PER STORY	58,000 SF	SF	SF	SF	SF
AREA AS DESIGNED PER STORY (Repeat for each story)	16,811 SF	SF	SF	SF	SF

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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**	24	75				
In Stories	**Table 504.4**	1	3				

Note: Allowable Building Height & Number of Stories Above Grade Plane

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**				

Note: Allowable Building Height & Number of Stories Above Grade Plane

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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**	☒ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Barrier Required	**Section 707**	☐ YES ☒ NO	☐ YES ☐ NO	☐ NO ☐ YES	☐ YES ☐ NO	☐ YES ☐ NO
Fire Partition Required	**Section 708**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke Barriers Required	**Section 709**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke Partitions Required	**Section 710**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fireblocking	**Section 718.2**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Draftstopping	**Sections 718.3 & 718.4**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Incidental Use Area One hour fire barrier Sprinkler system plus smoke resistance	**Section 509.4**	☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO
ALARM & DETECTION						
Fire Alarm and Detection System Fire Alarm Mass Notification Emergency voice/alarm comm.	**SCFC Section 907**	☒ YES ☐ NO ☒ YES ☐ NO ☒ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO
Emergency Alarm System Required	**SCFC Section 908**	☒ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
SUPPRESSION						
Automatic Sprinkler System Provided Required	**SCFC Section 903**	☒ YES ☐ NO ☒ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO

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Alternative Automatic Fire Extinguishing Kitchen Hoods Other N/A	**SCFC Section 904**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Standpipes Required	**SCFC Section 905**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Portable extinguishers required General Building Kitchen Labs	**SCFC Section 906**	☒ YES ☐ NO ☐ YES ☐ NO ☒ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO

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**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke & Heat Removal Required	**SCFC 910**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Department Connections	Seetion 912	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Carbon Monoxide Detection	Section 915	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Gas Detection Systems	Section 916	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Emergency Responder Radio Coverage	Section 918	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Apparatus Access and Water Line	**SCFC 503 & 507**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
2-way Communication Required	**Section 1009.8**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Area of Refuge *(e.g. Separation, Two-Way Communication, and Instruction)*	**Sections 1009.6, 1009.9, 1009.10 & 1009.11**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Exterior Area for Assisted Rescue *(e.g. Separation, Opennes, and Instruction)*	**Sections 1009.7, 1009.9, 1009.10 & 1009.11**	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Safe Dispersal Area	**Section 1028.5**	☒ YES ☐ NO	☐ YES ☐ NO	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☐ NO
(Add others as needed) N/A		☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
(Add others as needed) N/A		☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO

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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, Hrs	**Table 601**	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Bearing Walls, Exterior	As Required, Hrs	**Table 601**	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Bearing Walls, Interior	As Required, Hrs	**Table 601**	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Nonbearing Walls and Partitions, Interior	As Required, Hrs	**Table 601**	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				

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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, Hrs	**Table 602**	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Floor Construction and associated secondary members	As Required, Hrs	**Table 601**	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Roof Construction and associated secondary members	As Required, Hrs	**Table 601**	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Fire Walls	As Required, Hrs	**Section 706**	4				
	As Designed, Hrs		4				
	Testing Agency & Design No.(UL, FM, etc)		UL L901				
	Wall/Partition Key Code		N/A				

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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, Hrs	**Section 707**	N/A				
	As Designed, Hrs		N/A				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Fire Partitions	As Required, Hrs	**Section 708**	N/A				
	As Designed, Hrs		N/A				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Smoke Barriers	As Required, Hrs	**Section 709**	N/A				
	As Designed, Hrs		N/A				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Smoke Partitions	As Required, Hrs	**Section 710**	N/A				
	As Designed, Hrs		N/A				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				

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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, Hrs	**Section 711**	N/A				
	As Designed, Hrs		N/A				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Shaft Enclosures	As Required, Hrs	**Sections 712 & 713**	N/A				
	As Designed, Hrs		N/A				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				
Opening & Protective Listing by Category (fire shutters, doors, etc.)	As Required, Hrs	**Section 716**	1.5				
	As Designed, Hrs		1.5				
	Testing Agency & Design No.(UL, FM, etc)		MFR LABEL				
	Wall/Partition Key Code		N/A				
Others (as required by Designer)	As Required, Hrs		N/A				
	As Designed, Hrs		N/A				
	Testing Agency & Design No.(UL, FM, etc)		N/A				
	Wall/Partition Key Code		N/A				

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FLOOD HAZARD INFORMATION and FLOOD LOADS

FLOOD HAZARD AREA	
Base Flood Elevation **(NGVD or FIRM)**	N/A MSL
Design Flood Elevation **SCBC 1612.3 and ASCE 24**	N/A MSL
NON HIGH-VELOCITY WAVE ACTION	
Elevation of Lowest Proposed Floor **(Meet ASCE 24 Section 2.6.2.1)**	N/A MSL
Dry flood proofing **ASCE 24**	☒ no ☐ yes
HIGH-VELOCITY WAVE ACTION	
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor	N/A MSL
Flotation resistant **(ASCE 24)**	☒ no ☐ yes
Breakaway wallper **(ASCE 24)**	☒ no ☐ yes

FIRE SERVICE INFORMATION

Service Line Size		N/A Inches
Fire Department Connection	Location	N/A
Backflow	Location	N/A
	Type	N/A
Fire Hydrant Flow Test	Date	N/A
	Flow	N/A GPM
	Residual	N/A PSI
	Static	N/A PSI

ENERGY INFORMATION

INSULATION		
Roof	Cavity	N/A R
	Continuous	N/A R
Walls	Cavity	N/A R
	Continuous	N/A R
Underslab		N/A R
GLAZING (each type)		
Window to wall ratio	North	N/A %
	East	N/A %
	South	N/A %
	West	N/A %
Glass Type N/A	U Factor	N/A
	SHG	N/A
	N/A	N/A

Summary of data from approved ASHRAE 90.1 compliance sheets.

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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

		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
OCCUPANCY CATEGORY		**Table 1604.5**	-	-	-	-	-
LIVE LOAD FOR EACH CCUPANCY TYPE	Floor Live Load, F_{ll}	**Figure 1608.2 or ASCE 7**	N/A PSF	PSF	PSF	PSF	PSF
	Roof Live Load, R_{ll}		N/A PSF	PSF	PSF	PSF	PSF
	Ground Snow Load, p_g		N/A PSF	PSF	PSF	PSF	PSF
MISCELLANEOUS LOADS BY SPECIAL USE AREA *(ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC.)*		**ASCE 7**	N/A PSF	PSF	PSF	PSF	PSF

Version April 2021

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Myrtle Beach South Carolina
10109

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DAVID SULLIVAN OLYMPH
License No. 3943

PROJECT TITLE

Aynor High School Auditorium Renovations

AYNOR HIGH SCHOOL
201 Jordanville Rd.
Aynor, SC 29511

FILE NUMBER 2321

SHEET TITLE:
FORM F3 (PARTIAL)

DATE 04.30.2024

SHEET NUMBER
A0.01

SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION

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)**	N/A
Classes Soil of Materials (UCS System) **(SCBC 1803.5.1)**	N/A
Allowable Footing Bearing Pressure	N/A psf
MINIMUM DESIGN SOIL BEARING LOAD **(SCBC Table 1806.2)**	3000 psf
COMPACTION	
Subgrade **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	N/A %
Base **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	N/A %
Other **(ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)**	N/A %
MINIMUM DESIGN SOIL LATERAL LOAD **(SCBC 1610.1)**	N/A psf
FOOTINGS	
Undisturbed footings	☐ no ☒ yes
Compacted Fill Material **(SCBC Section 1804.6)**	☐ no ☒ yes
ELEVATIONS	
Elevation of Water Table	N/A MSL
Elevation of lowest footing	N/A MSL
Elevation of lowest floor or basement	N/A MSL

STRUCTURAL DESIGN INFORMATION, BUILDING		
WIND LOADS	Analysis Procedure **(ASCE 7 or SCBC 1609.6)**	N/A
	Basic design Wind Speed, MPH **(3 sec gust IBC Fig 1609.3)**	N/A = V
	Exposure Category	
	Wind Importance Factor **(ASCE 7 Table 1.5-2)**	N/A = I_w
	Internal Pressure Coefficient **(ASCE 7)**	N/A = GC_{pi}
	External Pressure Coefficient **(ASCE 7)**	N/A = GC_p
SEISMIC LOADS/E arthquake	Seismic Importance Factor **(ASCE 7)**	N/A = I
	Site Class **(SCBC Section 1613.3.2)**	N/A
	Mapped Spectral Response Accelerations	N/A = S_s N/A = S_1
	Design Spectral Response Acceleration Parameters	N/A = S_{DS} N/A = S_{D1}
	Seismic Use Group **(ASCE 7 and Seismic Occupancy Category 1BC)**	N/A
	Seismic Design Category **SCBC Tables 1613.3.5(1) & 1613.3.5(2)**	N/A
	Basic Seismic Force Resisting System	N/A
	Design Base Shear	N/A KIPS
	Seismic Response Coefficient(s) **ASCE 7**	N/A = C_s
	Response Modification Factor(s) **ASCE 7**	N/A = R
	Analysis Procedure	N/A

SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION

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
Concrete	Per T1705.3	Per T1705.3	1705.3	Special Inspector
Vertical Foundation Masonry	Per 1705.4	When needed	1705.4.2	Special Inspector
Soils	Compaction	As needed	1705.6	General Contractor
Plumbing, Mech & Elec components	Visual	As needed	1705.13.6	Special inspector

SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

Provide a table for each structure.

PLUMBING INFORMATION		
WATER SYSTEM		
Service Line Size	N/A Inches	
Distribution Design Criteria **(SCPC Table 604.3)**	N/A Fixture Units	
Maximum Flow Rate **(SCPC Table 604.4)**	N/A GPM	
Backflow	Location	N/A
	Type	N/A
Test Pressure	N/A psi	
SANITARY SEWER SYSTEM		
Service Line Size	N/A Inches	
Drainage Design Criteria **(SCPC Tables 709.1 and 709.2)**	N/A Fixture Units	
Maximum Flow Rate	N/A GPD	
Slope (SCPC Table 704.1)	N/A Inches/Ft	

SUMMARY OF FIXTURES (SCPC Section 403 & Table 403.1)		
Water Closets	Male-Required	3
	Male WC -Provided	5
	Male Urinal -Provided	2
	Female-Required	5
	Female-Provided	5
Lavatories	Male-Required	2
	Male-Provided	4
	Female-Required	2
	Female-Provided	4
Showers	Male-Provided	0
	Female-Provided	0
Drinking Fountains	Required	2
	Provided	4
Family or Assisted-Use Toilet	Required	0
	Provided	0
Service Sink	Required	1
	Provided	1
Others (list)	Required	0
	Provided	0

SOUTH CAROLINA STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

Summary of data from approved ASHRAE 90.1 compliance sheets.

MECHANICAL INFORMATION		
GENERAL INFORMATION		
Building Location	N/A	
Climate Zone	N/A	
Outdoor Design Temperature	Summer	N/A deg F DB
		N/A deg F WB
	Winter	N/A deg F DB
		N/A deg F WB
Indoor Design Temperature	Summer	N/A deg F DB
		N/A % RH
	Winter	N/A deg F DB
		N/A % RH
OUTSIDE AIR N/A		
Occupied Minimum Outside Air	N/A cfm per person	
CO2 Demand Management	☒ no ☐ yes	
Supervised Control System	☐ no ☒ yes	
MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT Briefly describe mechanical system: N/A		

ELECTRICAL INFORMATION		
SERVICE TRANSFORMER	☒ By Utility	
	☐ By District	N/A KVA Primary
		N/A Voltage/Phase
ELECTRICALSERVICE INFORMATION		
Service Voltage/Phase	N/A	N/A Amperes
Service Entrance Conductors Size	N/A	N/A Qty per Phase
Total Connected Load		N/A KVA
Estimated Maximum Demand		N/A KVA
Available Fault Current in Symmetrical Amperes		N/A
Interrupting Capacity of Service Overcurrent Device		N/A
Grounding electrode system components (NEC 250)		N/A
EMERGENCY SERVICE INFORMATION		
Emergency Generator	☒ no ☐ yes	N/A KVA
		N/A Voltage/Phase
	Fuel	N/A
Exit/Emergency Lights Backup Power		☒ Integral Battery
		☐ Generator
Fire Alarm System	☐ Manual	☒ Addressable
	☒ Automatic	☐ Class A
		☐ Class B
LIGHTNING PROTECTION PROVIDED	☐ no ☒ yes	

SECTION 109 PERMITS

DESIGN AND CONSTRUCTION RELATED PERMITS AND APPROVALS

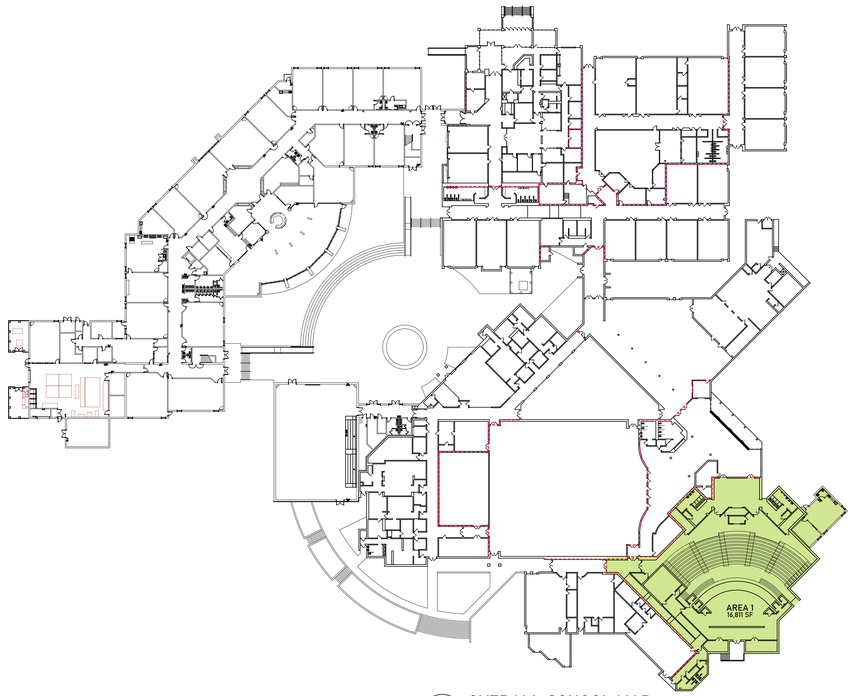
The following list is not all-inclusive of every permit and standard applicable to each project and not all projects will require all of the permits listed below. District and A/E's must determine applicable permits for each project.

Type of Development	SC Law or Reg.	Where to Obtain Permit/Approval	Status
Air pollutant discharge	48-1-100, R61-62.1	SCDHEC – Bureau of Air Quality	n/a
Asbestos abatement	R61-86.1	SCDHEC - Bureau of Air Quality	n/a
Building construction, Zoning	6-7-830, 6-9-110	Local Authority	n/a
Community residential care facilities	R61-84	SCDHEC - Healthcare Facilities Licensing	n/a
Construction in critical coastal areas	48-39-10, 130, 190	SCDHEC - Ocean & Coastal Res. Mgmt.	n/a
Swimming pools, public	R61-51	SCDHEC – Bureau of Water	n/a
Underground storage tanks	R61-92	SCDHEC – Bureau of Land & Waste Management	n/a
Waste discharge (sewage, industrial waste, etc.)	48-1-100, 110, R61-9	SCDHEC – Bureau of Water	n/a
Water supply, potable	44-55-40, R61-57, 58	SCDHEC – Bureau of Water	n/a
Water supply, fire protection system	40-10-260, R71-8300.4	State Fire Marshal	n/a
Wells, Underground injection	R61-71, 87	SCDHEC – Bureau of Land & Waste Management	n/a
Vocational facilities	Various	SCLLR Board of Cosmetology, SCLLR Board of Barber Examiners SCDHEC Food Service	n/a
Zoning(Municipal, County or District)	Various	Local	n/a

DESIGN AND CONSTRUCTION RELATED PERMITS AND APPROVALS

The following list is not all-inclusive of every permit and standard applicable to each project and not all projects will require all of the permits listed below. District and A/E's must determine applicable permits for each project.

Type of Development	SC Law or Reg.	Where to Obtain Permit/Approval	Status
Construction in navigable waters	49-1-16	SCDHEC - Bureau of Water	n/a
Dams and reservoirs	49-11-200, R72-1, 2, 3	SCDHEC - Bureau of Water	n/a
Demolition of Real Property	R61-86.1	SCDHEC - Bureau of Air Quality	n/a
Design Review Board (BARs, SC Dept. Archives & History, etc.)	Various local	Various local	n/a
Early Childhood Development	R114-500	SCDSS – Child Care Licensing	n/a
Elevators	41-16-10, R71-5000-5900	SCLLR	n/a
Fire Department (Local)	Various local & State	Servicing Fire Department	n/a
Fire, Building Automatic Sprinkler System and underground supply	40-10-260, R71-8300.4	State Fire Marshal	yes
Floodplains, construction in	Exec. Order 82-19	SCDNR	n/a
Food service including concession and temporary	R61-25	SCDHEC – State and Local Office	n/a
Hazardous waste management, Storage and disposal	44-56-20,60, R. 61-79	SCDHEC - Bureau of Land & Waste Management	n/a
Historical building rehabilitation	R12-125, 126	Archives and History, Local Authority	n/a
Road encroachment, local road	57-7-60	Local City or County Authority	n/a
Road encroachment, state road	57-5-1080	SCDOT Traffic Engineering Office	n/a
Sanitary sewer, grease trap	Various local	Local City or County Wastewater Authority	n/a
Sanitary sewer, treatment & disposal	R61-56, 57	SCDHEC – Bureau of Water	n/a
Septic tank system	R. 61-56	SCDHEC - Bureau of Environmental Health Services	n/a
Storm water discharge, erosion and sediment control	R61-9, R72-100-108	SCDHEC – Bureau of Water; State Engineer; Local Authority	n/a
Swimming areas, natural public	R61-50	SCDHEC – Bureau of Water	n/a



1 A0.02 OVERALL SCHOOL MAP
SCALE: 1" = 50'

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Myrtle Beach South Carolina 101099

REGISTERED ARCHITECT SOUTH CAROLINA
DAVID SULLIVAN GLYMPH
LICENSE No. 3943

PROJECT TITLE

Aynor High School Auditorium Renovations

AYNOR HIGH SCHOOL
201 Jordanville Rd.
Aynor, SC 29511

FILE NUMBER 2321

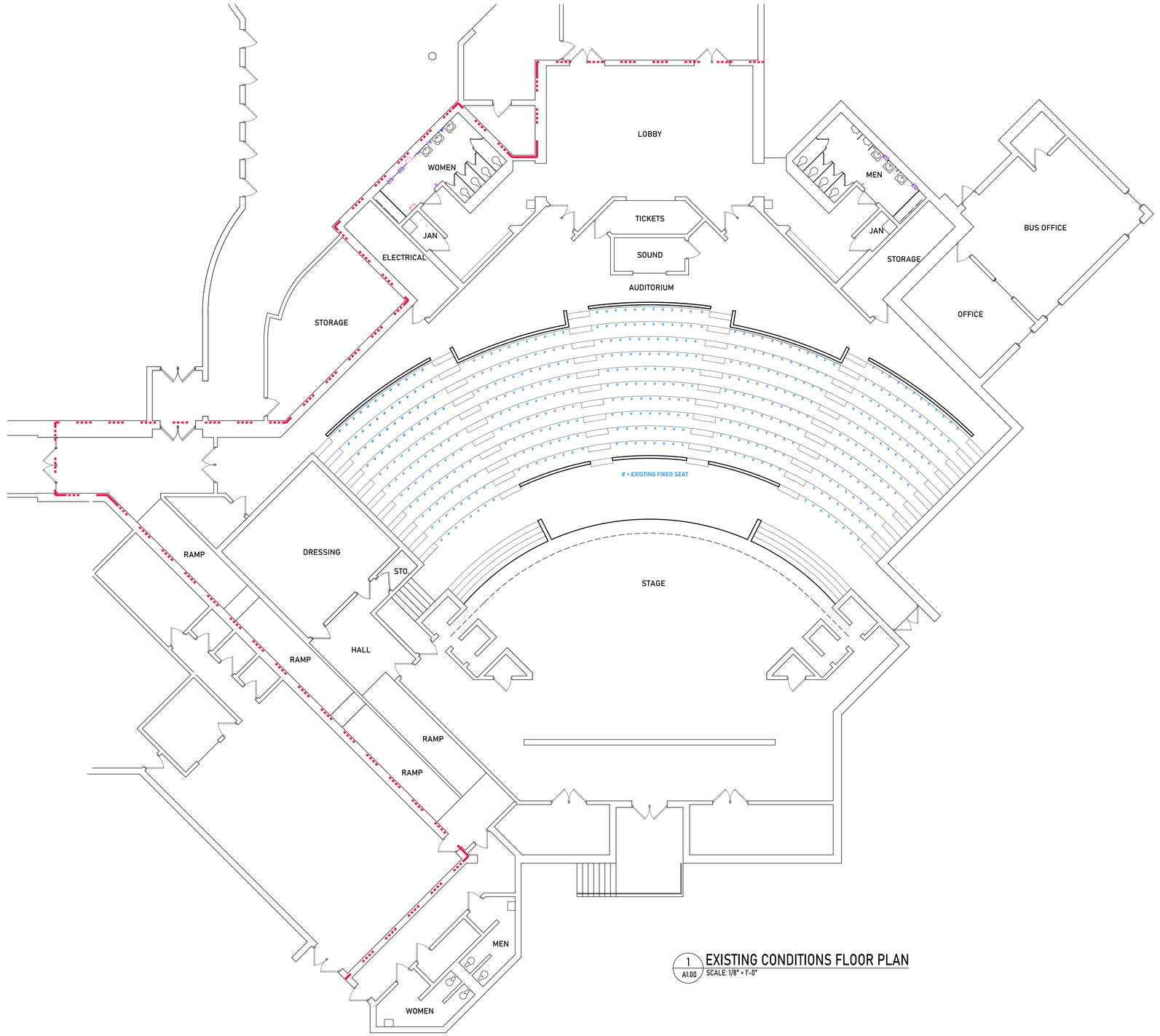
SHEET TITLE:

PARTIAL FORM F3
PERMITS CHART
SCHOOL MAP

DATE 04.30.2024

SHEET NUMBER

A0.02



1 A1.00 EXISTING CONDITIONS FLOOR PLAN
SCALE: 1/8" = 1'-0"

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AYNOR HIGH SCHOOL
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FILE NUMBER 2321

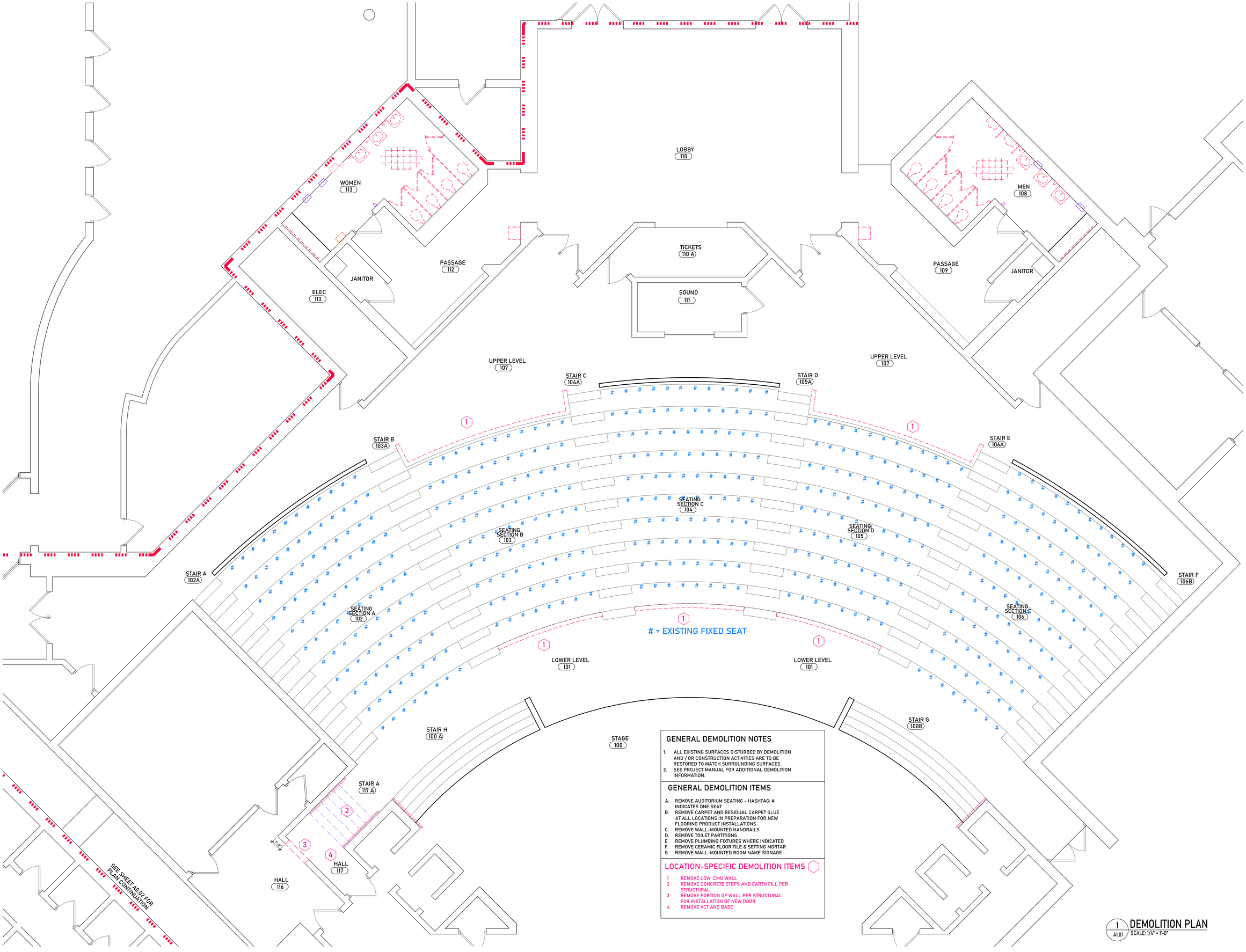
SHEET TITLE:

EXISTING CONDITIONS FLOOR PLAN

DATE 04.30.2024

SHEET NUMBER

A1.00



GENERAL DEMOLITION NOTES

1. ALL EXISTING SURFACES DISTURBED BY DEMOLITION AND / OR CONSTRUCTION ACTIVITIES ARE TO BE RESTORED TO MATCH SURROUNDING SURFACES.
2. SEE PROJECT MANUAL FOR ADDITIONAL DEMOLITION INFORMATION.

GENERAL DEMOLITION ITEMS

A. REMOVE AUDITORIUM SEATING - HASHTAG: # INDICATES ONE SEAT
B. REMOVE CARPET AND RESIDUAL CARPET GLUE AT ALL LOCATIONS IN PREPARATION FOR NEW FLOORING PRODUCT INSTALLATIONS
C. REMOVE WALL-MOUNTED HANDRAILS
D. REMOVE TOILET PARTITIONS
E. REMOVE PLUMBING FIXTURES WHERE INDICATED
F. REMOVE CERAMIC FLOOR TILE & SETTING MORTAR
G. REMOVE WALL-MOUNTED ROOM NAME SIGNAGE

LOCATION-SPECIFIC DEMOLITION ITEMS

1 REMOVE LOW CMU WALL
2 REMOVE CONCRETE STEPS AND EARTH FILL PER STRUCTURAL
3 REMOVE PORTION OF WALL PER STRUCTURAL FOR INSTALLATION OF NEW DOOR
4 REMOVE VCT AND BASE

1 / A1.01 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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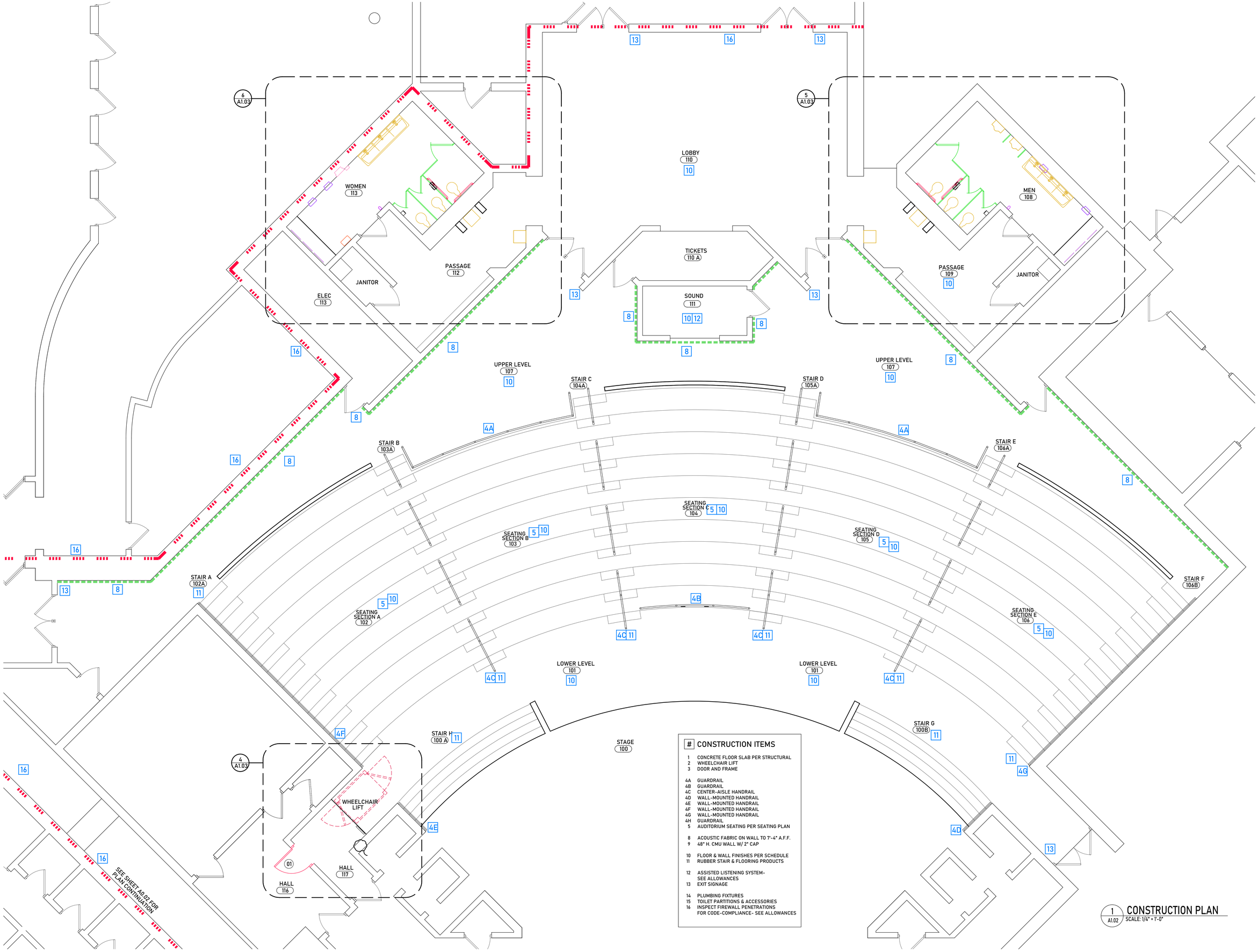
201 Jordanville Rd.
Aynor, SC 29511

FILE NUMBER 2321

SHEET TITLE:
DEMOLITION PLAN

DATE 04.30.2024

SHEET NUMBER
A1.01



CONSTRUCTION ITEMS

1	CONCRETE FLOOR SLAB PER STRUCTURAL
2	WHEELCHAIR LIFT
3	DOOR AND FRAME
4A	GUARDRAIL
4B	GUARDRAIL
4C	CENTER-AISLE HANDRAIL
4D	WALL-MOUNTED HANDRAIL
4E	WALL-MOUNTED HANDRAIL
4F	WALL-MOUNTED HANDRAIL
4G	WALL-MOUNTED HANDRAIL
4H	GUARDRAIL
5	AUDITORIUM SEATING PER SEATING PLAN
8	ACOUSTIC FABRIC ON WALL TO 7'-4" A.F.F.
9	48" H. CMU WALL W/ 2" CAP
10	FLOOR & WALL FINISHES PER SCHEDULE
11	RUBBER STAIR & FLOORING PRODUCTS
12	ASSISTED LISTENING SYSTEM- SEE ALLOWANCES
13	EXIT SIGNAGE
14	PLUMBING FIXTURES
15	TOILET PARTITIONS & ACCESSORIES
16	INSPECT FIREWALL PENETRATIONS FOR CODE-COMPLIANCE- SEE ALLOWANCES

1 A1.02 **CONSTRUCTION PLAN**
SCALE: 1/4" = 1'-0"

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AYNOR HIGH SCHOOL
201 Jordanville Rd.
Aynor, SC 29511

FILE NUMBER 2321

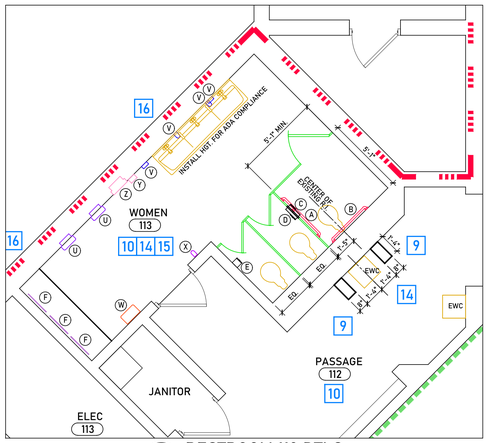
SHEET TITLE:

CONSTRUCTION PLAN

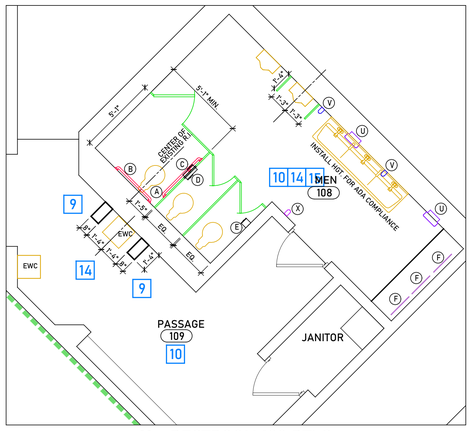
DATE 04.30.2024

SHEET NUMBER

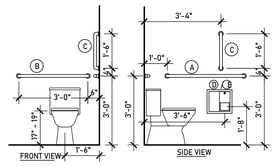
A1.02



8 A1.03 **RESTROOM 113 DTLS.**
SCALE: 1/4" = 1'-0"



7 A1.03 **RESTROOM 108 DTLS.**
SCALE: 1/4" = 1'-0"



ACCESSIBLE STALL DETAILS

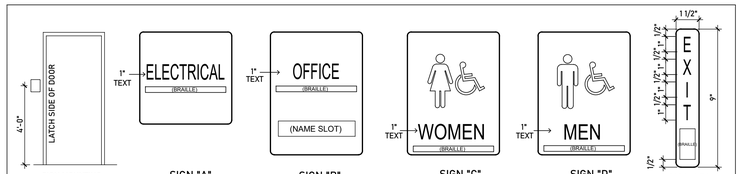
A	42" GRAB BAR	BRADLEY SERIES 812-2
B	36" GRAB BAR	BRADLEY SERIES 812-2
C	18" GRAB BAR	BRADLEY SERIES 812-2
D	TOILET TISSUE DISPENSER	BRADLEY 5422- SEE PLAN FOR LOCATION
E	TOILET TISSUE DISPENSER	BRADLEY 5402- SEE PLAN FOR LOCATION
F	MIRROR (SEE PLAN)	BOBRICK B-1556-2436 STAINLESS STEEL)

TOILETROOM ACCESSORIES TO REMAIN

U	ELECTRIC HAND DRYER
V	SOAP DISPENSER
W	PAPER TOWEL DISPENSER
X	HAND SANITIZER DISPENSER
Y	SANITARY NAPKIN DISPENSER
Z	SANITARY NAPKIN DISPOSAL

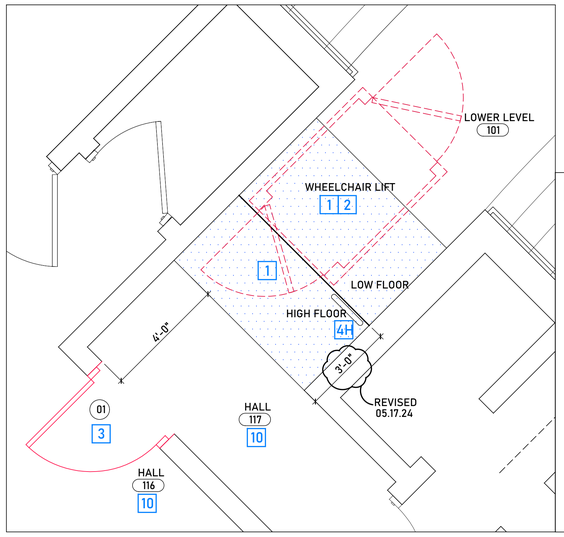
NOTE: WATER COOLER, TOILET AND URINAL FIXTURES ARE TO BE INSTALLED AT EXISTING WATER AND WASTE ROUGH-INS.

6 A1.03 **RESTROOM DETAILS**
SCALE: 3/8" = 1'-0"



5 A1.03 **INTERIOR SIGNAGE**
SCALE: 3" = 1'-0"

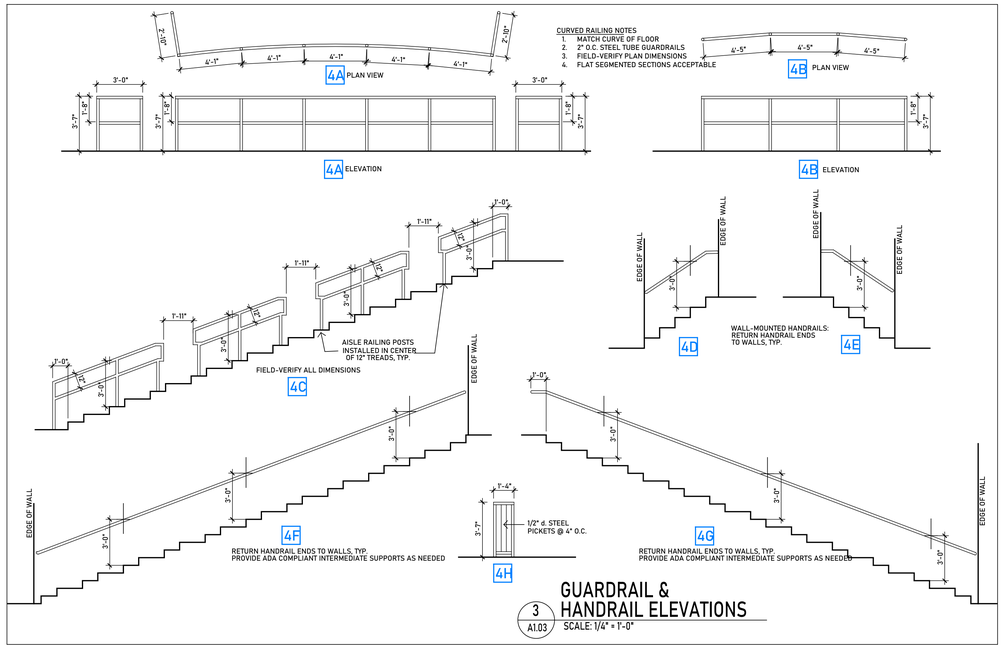
INTERIOR SIGNAGE NOTES:
1. PROVIDE ONE SIGN AT EACH INTERIOR DOOR.
2. FONT: HELVETICA
3. NO RAISED BORDERS ON SIGNS.
4. SIGNAGE TO COMPLY WITH LATEST EDITIONS OF ANSI 117.1 AND THE A.D.A.
5. SEE SPECIFICATIONS FOR ADDITIONAL SIGNAGE INFORMATION.
6. SUBMIT SIGNAGE SCHEDULE AND SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.



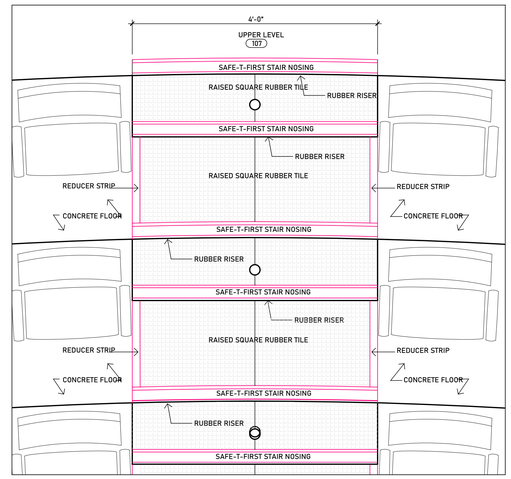
4 A1.03 **WHEELCHAIR LIFT FLOOR PLAN**
SCALE: 1/2" = 1'-0"

CONSTRUCTION ITEMS

1	CONCRETE FLOOR SLAB PER STRUCTURAL
2	WHEELCHAIR LIFT
3	DOOR AND FRAME
4A	GUARDRAIL
4B	GUARDRAIL
4C	CENTER-AISLE HANDRAIL
4D	WALL-MOUNTED HANDRAIL
4E	WALL-MOUNTED HANDRAIL
4F	WALL-MOUNTED HANDRAIL
4G	WALL-MOUNTED HANDRAIL
4H	GUARDRAIL
5	AUDITORIUM SEATING PER SEATING PLAN
8	ACOUSTIC FABRIC ON WALL TO 7'-4" A.F.F.
9	48" H. CMU WALL W/ 2" CAP
10	FLOOR & WALL FINISHES PER SCHEDULE
11	RUBBER STAIR & FLOORING PRODUCTS
12	ASSISTED LISTENING SYSTEM- SEE ALLOWANCES
13	EXIT SIGNAGE
14	PLUMBING FIXTURES
15	TOILET PARTITIONS & ACCESSORIES
16	INSPECT FIREWALL PENETRATIONS FOR CODE-COMPLIANCE- SEE ALLOWANCES



3 A1.03 **GUARDRAIL & HANDRAIL ELEVATIONS**
SCALE: 1/4" = 1'-0"



STAIRS B, C, D & E
2 A1.03 **FLOORING DETAIL**
SCALE: 1" = 1'-0" STAIRS A & F SIMILAR

DOOR SCHEDULE

#	SIZE	TYPE	CLOSER	FRAME	RATING
01	3'-0" x 7'-0"	SCWV	YES	HOLMET	NONE

SCWV SOLID CORE WOOD VENEER
HOLMET HOLLOW METAL

ROOM FINISH SCHEDULE

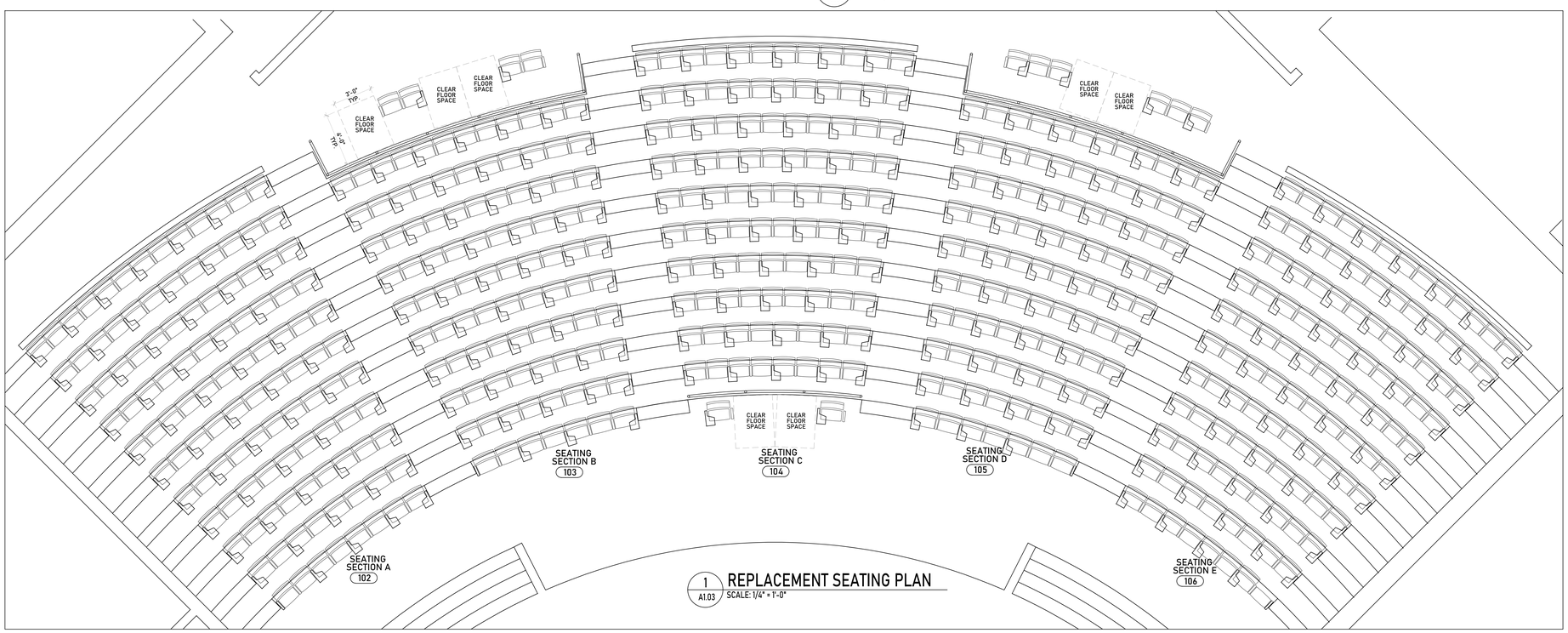
#	ROOM	FLOOR	BASE	WALL	CEILING	REMARKS
100	STAGE	EXS	EXS	PNT	EXS	
100A	STAIR H	RTR	RUB	PNT	EXS	
100B	STAIR G	RTR	RUB	PNT	EXS	
101	LOWER LEVEL	SVT	RUB	PNT	EXS	
102	SEATING SECTION A	PNT	n/a	PNT	EXS	
102A	STAIR A	RTR	RTR + RUB	PNT	EXS	SEE FLOORING DTL.
103	SEATING SECTION B	PNT	n/a	PNT	EXS	
103A	STAIR B	RTR	RTR	PNT	EXS	SEE FLOORING DTL.
104	SEATING SECTION C	PNT	n/a	PNT	EXS	
104A	STAIR C	RTR	RTR	PNT	EXS	SEE FLOORING DTL.
105	SEATING SECTION D	PNT	n/a	PNT	EXS	
105A	STAIR D	RTR	RTR	PNT	EXS	SEE FLOORING DTL.
106	SEATING SECTION E	PNT	n/a	PNT	EXS	
106A	STAIR E	RTR	RTR	PNT	EXS	SEE FLOORING DTL.
106B	STAIR F	RTR	RTR + RUB	PNT	EXS	SEE FLOORING DTL.
107	UPPER LEVEL	SVT	RUB	PNT + AWF	EXS	
108	MEN	CER	EXS	EXS	PNT	
109	PASSAGE	SVT	RUB	PNT	EXS	
110	LOBBY	SVT	RUB	PNT	EXS	
110A	TICKETS	SVT	RUB	PNT	EXS	
111	SOUND	SVT	RUB	PNT	EXS	
112	PASSAGE	SVT	RUB	PNT	EXS	
113	WOMEN	CER	EXS	EXS	PNT	
114	ELECTRICAL	EXS	EXS	EXS	EXS	
115	DRESSING	EXS	EXS	PNT	EXS	
116	HALL	EXS	EXS	PNT	EXS	
117	HALL	SVT	RUB	PNT	EXS	

LEGEND

AWF	ACOUSTICAL WALL FABRIC
CER	CERAMIC TILE
EXS	EXISTING TO REMAIN UNALTERED
PNT	PAINT
RTR	RUBBER TREADS & RISERS
RUB	RUBBER
SVT	SOLID VINYL TILE

GENERAL FINISH NOTES

1. EXCEPT FACTORY-FINISHED SURFACES, PAINT ALL EXISTING AND NEW SURFACES INCLUDING BULKHEADS.
2. DO NOT INSTALL PNT, RUB, OR RTR ON CONCRETE FLOOR UNTIL ARCHITECT INSPECTS AND APPROVES PREPPED SUBSTRATE.



1 A1.03 **REPLACEMENT SEATING PLAN**
SCALE: 1/4" = 1'-0"

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D3G ARCHITECTS LLC
Myrtle Beach South Carolina
101099

REGISTERED ARCHITECT SOUTH CAROLINA
DAVID SULLIVAN OLYMPH
LICENSE No. 3943

PROJECT TITLE

Aynor High School Auditorium Renovations

AYNOR HIGH SCHOOL
201 Jordanville Rd.
Aynor, SC 29511

FILE NUMBER 2321

SHEET TITLE:
DETAILS & SEATING PLAN

DATE 04.30.2024
REVISION 05.17.24: WHEELCHAIR LIFT

SHEET NUMBER
A1.03

GENERAL NOTES:

- CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AND ALL OTHER APPLICABLE BUILDING CODES HAVING JURISDICTION.
- VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE PROJECT SITE PRIOR TO STARTING WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR EXISTING CONDITIONS THAT ARE NOT CONSISTENT WITH THE DRAWINGS.
- COORDINATE ALL WORK WITH THE ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND DRAWINGS OF OTHER TRADES. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES, INCONSISTENCIES OR CONFLICTS PRIOR TO STARTING FABRICATION OR CONSTRUCTION OF THE WORK.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND APPROVED SHOP DRAWINGS FOR SIZES AND LOCATIONS OF OPENINGS, INSERTS, SLEEVES, CHASES, SLAB DEPRESSIONS, EMBEDDED ITEMS, ATTACHMENT OF FINISHES, AND OTHER NON-STRUCTURAL ITEMS. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR SIZE AND LOCATION OF ALL OPENINGS FOR DUCTS, PIPING, CONDUITS, ETC. NOT SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR ROOFING, FLASHING, WATERPROOFING, DAMP-PROOFING AND FIREPROOFING REQUIREMENTS AND DETAILS.
- IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN UNLESS OTHERWISE APPROVED BY THE ARCHITECT.
- MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCES OF CONSTRUCTION, JOBSITE SAFETY AND SUPERVISION OF THE WORK ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- PROVIDE AND INSTALL ALL TEMPORARY BRACING, SHORING, ETC. REQUIRED FOR SUPPORT AND STABILITY OF THE STRUCTURE UNTIL ALL STRUCTURAL WORK IS COMPLETE. THE DESIGN, ERECTION, INSTALLATION, ADEQUACY AND SAFETY OF TEMPORARY SUPPORT DURING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT APPLY ANY CONSTRUCTION LOADS ON THE STRUCTURE THAT EXCEED THE SAFE LOAD CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY UNUSUAL OR EXCESSIVE LOADS OCCURRING DURING CONSTRUCTION. DO NOT APPLY CONSTRUCTION LOADS UNTIL STRUCTURAL COMPONENTS ARE PROPERLY CONNECTED AND ALL NECESSARY TEMPORARY BRACING IS IN PLACE.
- WORK NOT INDICATED ON THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT AT SIMILAR LOCATIONS SHALL BE REPEATED. UNLESS NOTED OTHERWISE, ALL SECTIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE TYPICAL AT SIMILAR LOCATIONS AND CONDITIONS.

MASONRY:

- ALL MASONRY WORK AND MATERIALS SHALL COMPLY WITH TMS 402/602 BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES, 2016 (FORMERLY ACI 530).
- CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C-90 TYPE II GRADE N, LIGHT WEIGHT UNITS.
- CONCRETE MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F'm) OF 1500 PSI. MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE 2000 PSI.
- MORTAR FOR ALL REINFORCED MASONRY SHALL BE TYPE S PORTLAND CEMENT-LIME MORTAR CONFORMING TO ASTM C-270 AND C-150. MORTAR FOR UNREINFORCED MASONRY OR BRICK VENEER SHALL BE TYPE S PORTLAND CEMENT-LIME MORTAR OR TYPE S MASONRY CEMENT. ALL MASONRY SHALL BE LAID IN A FULL MORTAR BED.
- REINFORCED MASONRY SHALL HAVE GROUT CONFORMING TO ASTM C-476. THE GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- ALL MASONRY SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE.
- MORTAR JOINTS SHALL BE 3/8" THICK TOOLED CONCAVE.
- FILL ALL REINFORCED CELLS SOLID WITH GROUT
- MINIMUM WALL REINFORCING, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS, SHALL BE #5 BAR VERTICAL FULL HEIGHT IN CENTER OF GROUTED CELL AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS AT WALL OPENINGS, EACH SIDE OF CONTROL JOINTS, AND AT INTERVALS NOT TO EXCEED 24 INCHES ON CENTER.
- INSTALL SUFFICIENT REBAR PLACEMENT WALL TIES TO ENSURE THE PROPER PLACEMENT OF ALL HORIZONTAL AND VERTICAL REBAR.
- MASONRY REBAR LAP SPLICES SHALL BE:

  #4 BARS = 24" LAP
  #5 BARS = 30" LAP
  #6 BARS = 36" LAP
- DO NOT INSTALL MASONRY WHEN THE AMBIENT TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT. DURING HOT CONDITIONS, (ABOVE 90 DEGREES) PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EXCESS HEAT IN THE MASONRY UNITS, WATER AND MORTAR. IT IS ADVISED THAT THE CONTRACTOR FOLLOW THE RECOMMENDATIONS PRESCRIBED BY THE PORTLAND CEMENT ASSOCIATION FOR COLD OR HOT WEATHER CONSTRUCTION.

RENOVATION NOTE:

- PREPARATION OF THESE CONSTRUCTION DRAWINGS IS BASED ON LIMITED AS-BUILT MEASUREMENTS BY D3G ARCHITECTS, LLC. AS A RESULT, REASONABLE ASSUMPTIONS WERE MADE WITH RESPECT TO THE AS-BUILT CONDITION OF CONCEALED OR OTHERWISE INACCESSIBLE PORTIONS OF THE EXISTING CONSTRUCTION AND ITS SYSTEMS. AS SUCH, VARIED GRAPHIC DEPICTION OF THE WORK TO BE PERFORMED ARE CONCEPTUAL IN NATURE AND WILL BE SUBJECT TO ADJUSTMENTS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND EXISTING CONDITIONS AS IT PERTAINS TO THE EXECUTION OF NEW WORK, AND TO IDENTIFY DISCREPANCIES AND REPORT INFORMATION TO THE ARCHITECT AND OWNER FOR REVIEW AND ADJUSTMENTS.

FOUNDATIONS AND GEOTECHNICAL:

- THE FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED RESIDUAL SOIL OR PROPERLY COMPACTED STRUCTURAL FILL.
- FOOTINGS SHALL EXTEND DOWN TO A LOWER ELEVATION THAN INDICATED ON THE DRAWINGS IF NECESSARY TO REACH ADEQUATE BEARING MATERIAL.
- TOP OF ALL FOOTINGS TO BE A MINIMUM OF 4" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.
- REMOVE ALL MATERIAL CONTAINING ROOTS, DEBRIS OR OTHER DELETERIOUS MATERIAL FROM THE SITE.
- PLACE ALL FILL MATERIAL IN LIFTS NOT EXCEEDING 8" IN DEPTH AND COMPACT TO THE FOLLOWING STANDARD PROCTOR DENSITIES IN ACCORDANCE WITH ASTM-D698:

UNDER BUILDING FOUNDATIONS:	95%
UNDER SLABS ON GRADE:	95%
OTHER AREAS OUTSIDE BLDG. FOOTPRINT:	95%
- PROVIDE ADEQUATE DRAINAGE OR DEWATERING TO ALLOW PROPER FINISHING OF EXCAVATIONS AND TO KEEP WATER FROM COLLECTING IN THE BOTTOM OF EXCAVATIONS. FOUNDATIONS SHALL BE PLACED IN DRY CONDITIONS. DO NOT PLACE FOOTINGS IN WATER.
- REMOVE WATER SOFTENED SOILS FROM FOOTING EXCAVATIONS AND REPLACE WITH COMPACTED FILL, GRAVEL, FLOWABLE FILL OR CONCRETE, AS APPROVED BY THE ENGINEER, PRIOR TO PLACING CONCRETE.
- A GEOTECHNICAL ENGINEER SHALL INSPECT FOUNDATION EXCAVATIONS AND BUILDING PADS. PROVIDE NOTICE AND ALLOW SUFFICIENT TIME FOR FOOTING EXCAVATIONS TO BE INSPECTED PRIOR TO PLACING FOUNDATIONS.
- PLACE SLABS ON GRADE OVER A MINIMUM OF 4 INCHES OF GRANULAR FILL AND A MINIMUM 6 MIL THICK VAPOR BARRIER, UNLESS NOTED OTHERWISE.

CONCRETE:

- ALL CONCRETE AND REBAR AND THEIR INSTALLATION SHALL COMPLY WITH THE STANDARDS OF ACI-318-19 AND ACI-301-20.
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185
- THE 28 DAY MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS FOLLOWS:

FOOTINGS:	3000 PSI	NORMAL WEIGHT
SLAB ON GRADE:	3000 PSI	NORMAL WEIGHT
- CONCRETE MIXES SHALL BE DESIGNED IN ACCORDANCE WITH ACI 301 AND THE FOLLOWING:

	MAX W/C RATIO	SLUMP
4000 PSI	0.47	3" TO 5"
3000 PSI	0.53	3" TO 5"
2500 PSI	0.65	3" TO 6"

  CONCRETE SHALL BE READY MIXED IN ACCORDANCE WITH ASTM C-94. SUBMIT CONCRETE MIX DESIGNS TO THE ENGINEER FOR APPROVAL.
- CONCRETE MATERIALS SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

PORTLAND CEMENT:	ASTM C-150 TYPE I OR II
FLY ASH:	ASTM C-168
AGGREGATE (NORMAL WT.):	ASTM C-33
AGGREGATE (LIGHT WT.):	ASTM C-330
ADMIXTURES:	ASTM C-494, C-260, C989 & C-1017

  FLY ASH SHALL NOT BE MORE THAN 25% OF TOTAL CEMENTITIOUS MATERIALS. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
- CONCRETE DENSITIES SHALL BE AS FOLLOWS:

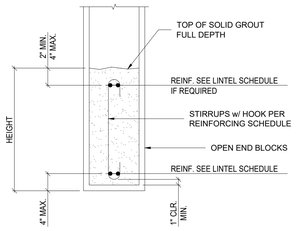
  NORMAL WEIGHT CONCRETE: 145 PCF
- PROVIDE 5% AIR ENTRAINMENT FOR ALL CONCRETE EXPOSED TO WEATHER OR EXTERIOR CONDITIONS, UNLESS NOTED OTHERWISE.
- NO WATER SHALL BE ADDED TO THE CONCRETE AT THE SITE UNLESS APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.
- REINFORCEMENT SHALL BE ADEQUATELY SUPPORTED AND TIED IN PLACE PRIOR TO CONCRETE PLACEMENT. PROVIDE STANDS, CHAIRS, BOLSTERS, CARRYING BARS OR ADDITIONAL BARS AS MAY BE NECESSARY TO ADEQUATELY SUPPORT THE REINFORCEMENT IN ITS PROPER POSITION.
- SUPPORT ALL SLAB REINFORCEMENT ON CONTINUOUS CHAIRS. REINFORCEMENT FOR SLABS ON GRADE MAY BE SUPPORTED ON CONCRETE BRICK.
- REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS:

  CONCRETE CAST AGAINST EARTH: 3"

  CONCRETE EXPOSED TO EARTH OR WEATHER:

  #5 BARS OR SMALLER: 1 1/2"
  #6 BARS AND LARGER: 2"
- DOWELS SHALL MATCH CORRESPONDING VERTICAL REINFORCING.
- LAP WELDED WIRE FABRIC A MINIMUM OF 9".
- IN HOT WEATHER, PLACE CONCRETE IN ACCORDANCE WITH THE PROVISIONS OF ACI 305. IN COLD WEATHER, PLACE CONCRETE ACCORDING TO ACI 306.

MASONRY LINTEL SCHEDULE



MARK	HEIGHT	WALL WIDTH	REINFORCING	REMARKS
L1	16"	8"	(1) #5 TOP & BOTTOM CONT.	STIRRUPS NOT REQUIRED

NOTES:

L1 DENOTES LINTEL DESIGNATION ON PLAN

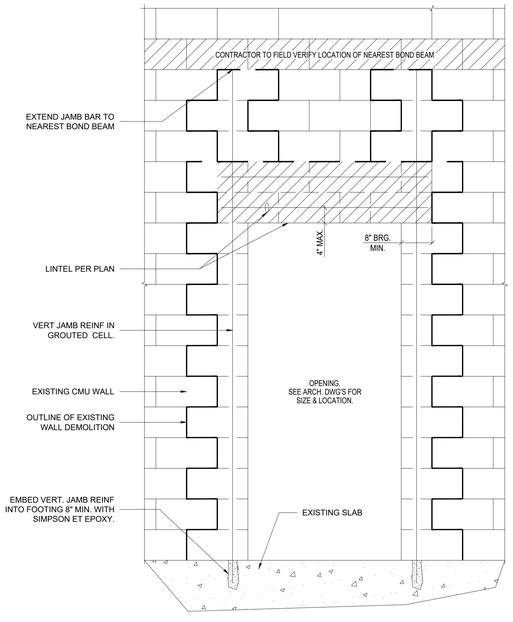
1. COORDINATE w/ ARCH. DWG.'s FOR BOTTOM OF LINTEL ELEVATION, SIZE & LOCATION OF OPENINGS
2. VERTICAL REINF TO MATCH AND LAP WALL REINF PER GENERAL STRUCTURAL NOTES
3. EXTEND GROUT, OPEN END MASONRY UNITS AND REINF 8" PAST JAMB

MASONRY JAMB SCHEDULE

MARK	MIN WIDTH	REINFORCING	REMARKS	SCHEMATIC
J1	8"	(1) # 5 VERTICAL	REINF. CLEARANCE PER DETAIL	8" / 8"

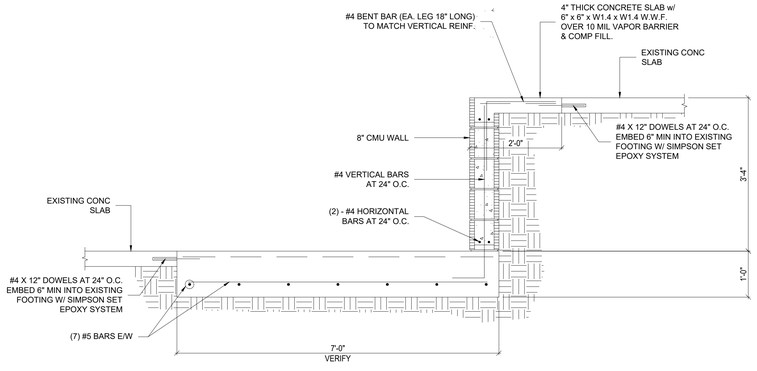
NOTES:

1. ALL JAMB REINF EXTENDS FROM FOUNDATION TO TOP OF WALL
2. USE (1)M- #6 BAR EACH FACE IN CELLS ADJACENT TO WALL OPENINGS UNLESS NOTED OTHERWISE.



TYPICAL OPENING AT MASONRY WALL

N.T.S.



SECTION 1 / S1.01

SCALE: 3/4"=1'-0"

LOAD TABLE

STRUCTURAL DESIGN BASED ON 2021 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA MODIFICATIONS

LIVE LOADS:

FLOORS, ROOFS, AND OTHER SIMILAR SURFACES SHALL BE DESIGNED TO SUPPORT THE UNIFORMLY DISTRIBUTED LIVE LOADS OR THE CONCENTRATED LIVE LOAD LISTED BELOW, WHICHEVER PRODUCES THE GREATER LOAD EFFECTS. UNLESS OTHERWISE SPECIFIED, THE LISTED CONCENTRATED LIVE LOAD SHALL BE ASSUMED TO BE UNIFORMLY DISTRIBUTED OVER AN AREA OF 2.5 FT BY 2.5 FT AND SHALL BE LOCATED TO PRODUCE THE MAXIMUM LOAD EFFECTS IN THE STRUCTURAL MEMBERS. LIVE LOAD REDUCTION IS NOT PERMITTED.

CATEGORY	UNIFORM LOAD (PSF)	CONCENTRATED LOAD (LBS)
1. SLAB-ON-GRADE	100	

DEAD LOADS:

USE ACTUAL DEAD LOADS OF MATERIALS

WIND DESIGN DATA:

1. BASIC DESIGN WIND SPEED, V = 147 mph (ASCE 7-16)
   & ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd} = 114 mph
2. WIND IMPORTANCE FACTOR, I_w = 1.00
3. RISK CATEGORY = III
4. WIND EXPOSURE = B

EARTHQUAKE DESIGN DATA:

1. RISK CATEGORY = III
2. SEISMIC IMPORTANCE FACTOR, I_e=1.25
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS S_S = 0.312 & S_1 = 0.114
4. SITE CLASS - D
5. SPECTRAL RESPONSE COEFFICIENTS S_{DS}= 0.322 & S_{D1} = 0.181
6. SEISMIC DESIGN CATEGORY - C
7. BASIC SEISMIC-FORCE-RESISTING-SYSTEM - BEARING WALL SYSTEMS
   WITH INTERMEDIATE REINFORCED MASONRY SHEAR WALLS (ASSUMED)
8. DESIGN BASE SHEAR V = C_S* W
9. SEISMIC RESPONSE COEFFICIENT C_S= 0.155
10. RESPONSE MODIFICATION FACTOR R = 3.5
11. ANALYSIS PROCEDURE USED IS EQUIVALENT LATERAL FORCE

ROOF SNOW LOAD DATA:

1. GROUND SNOW LOAD - P_g = 10 psf

ROOF RAIN LOAD DATA:

1. RAIN INTENSITY
   15-MINUTE PRECIPITATION INTENSITY: 8.17 INCHES/HOUR
   60-MINUTE PRECIPITATION INTENSITY: 4.46 INCHES/HOUR

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — WILLIAM M. WINGATE, II No. 18024

PROJECT TITLE

Aynor High School Auditorium Renovations

Aynor, South Carolina

FILE NO.: 2024-018

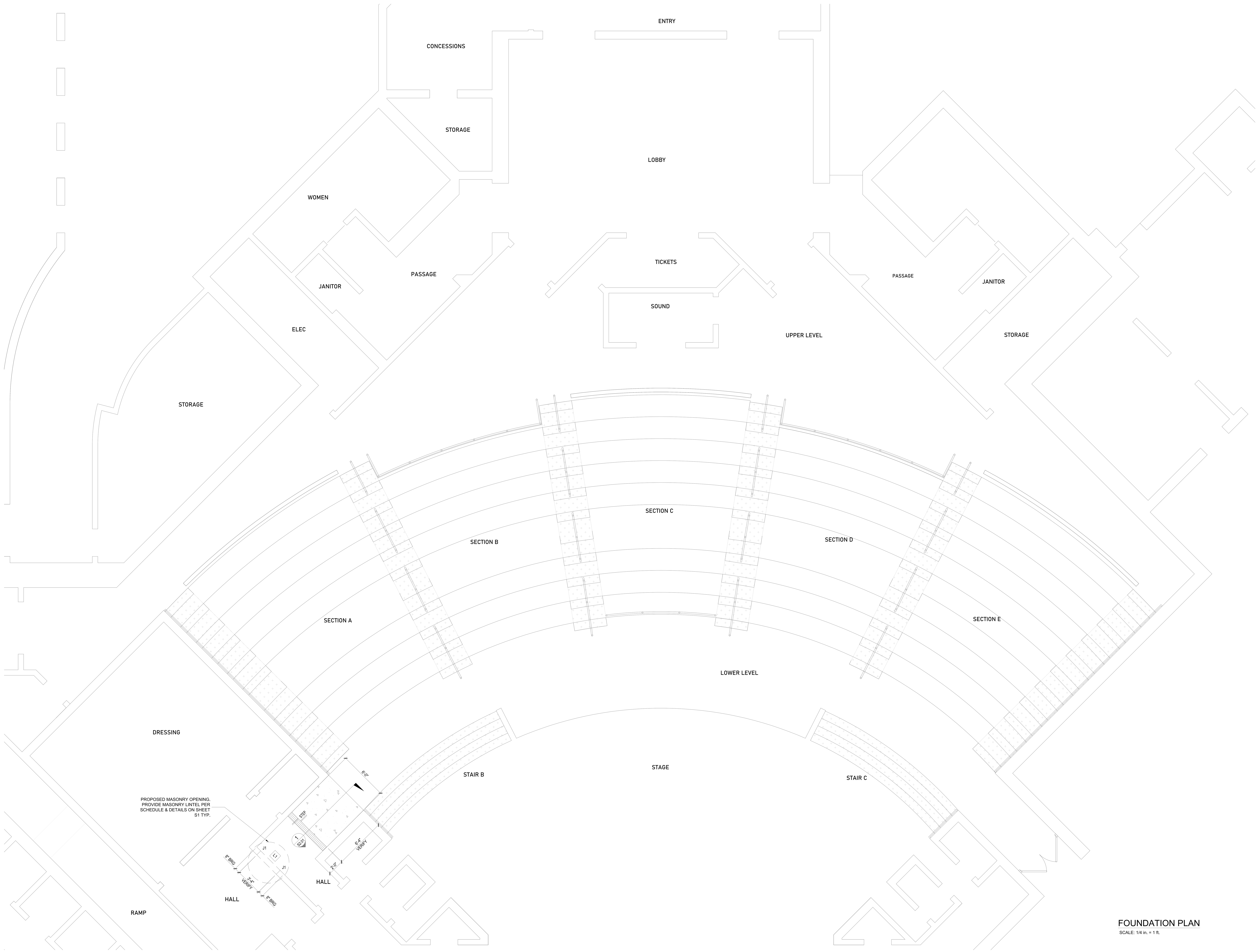
SHEET TITLE:

GENERAL NOTES & FOUNDATION SECTION

DATE 04.04.24

SHEET NUMBER

S1.01



FOUNDATION PLAN

SCALE: 1/4 in. = 1 ft.

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
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WILLIAM M. WINGATE, JR.

PROJECT TITLE

Aynor High School Auditorium Renovations

Aynor, South Carolina

FILE NO.: 2024-018

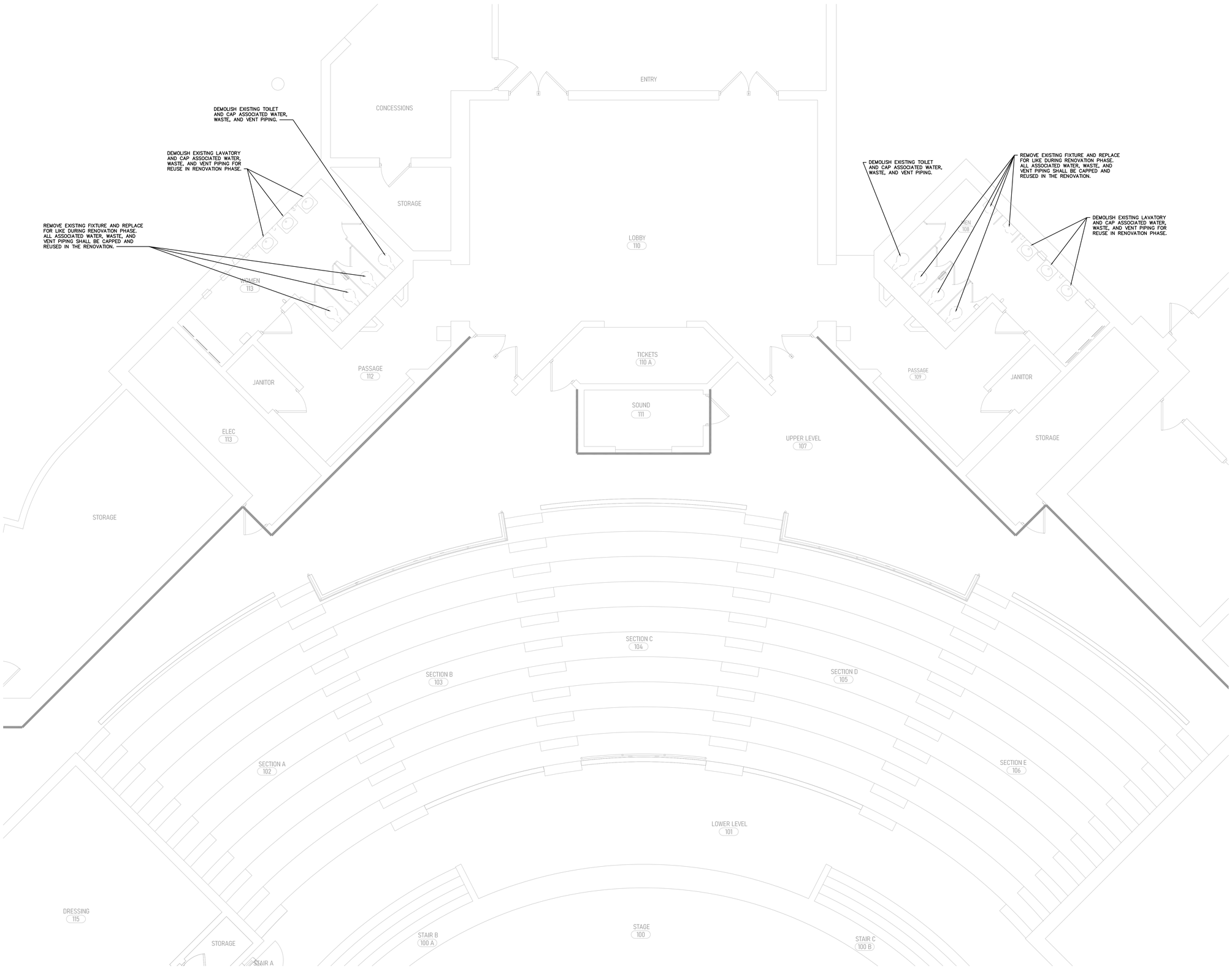
SHEET TITLE:

FOUNDATION PLAN

DATE 04.04.24

SHEET NUMBER

S2.01



1 PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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McKNIGHT • SMITH • WARD • GRIFFIN ENGINEERS, INC.
No. C029626
04-12-24

PROJECT TITLE

Aynor High School Auditorium Renovations

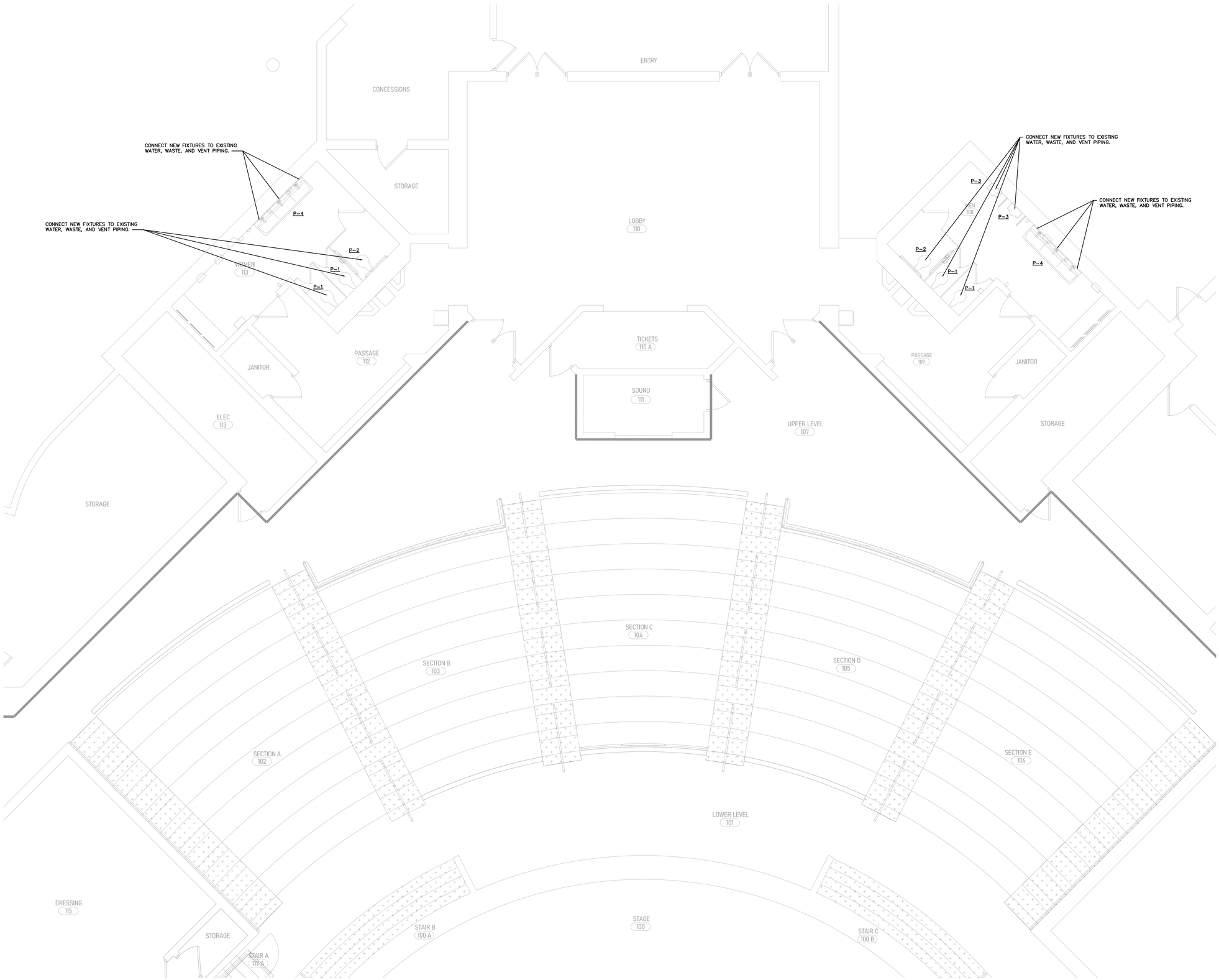
Aynor,
South Carolina

FILE NUMBER 2321

SHEET TITLE:
PLUMBING DEMOLITION PLAN

DATE 04.12.24

SHEET NUMBER
P101



1 PLUMBING RENOVATION PLAN
SCALE: 1/4" = 1'-0"

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No. C029526
04-12-24

PROJECT TITLE

Aynor High School Auditorium Renovations
Aynor, South Carolina

FILE NUMBER 2321

SHEET TITLE:
PLUMBING RENOVATION PLAN

DATE 04.12.24

SHEET NUMBER
P201

SCOPE

THE CONTRACTOR SHALL COORDINATE THE WORK AND EQUIPMENT OF THIS DIVISION WITH THE WORK AND EQUIPMENT SPECIFIED ELSEWHERE IN ORDER TO ASSURE A COMPLETE AND SATISFACTORY INSTALLATION. WORK SUCH AS EXCAVATION, BACKFILL, CONCRETE, FLASHING, WIRING, ETC., WHICH IS REQUIRED BY THE WORK OF THIS SECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE SECTION OF THE SPECIFICATIONS.

IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE".

THE WORD "PROVIDE" MEANS FURNISH, FABRICATED, COMPLETE, INSTALL, ERECT, INCLUDING LABOR AND INCIDENTAL MATERIALS NECESSARY TO COMPLETE IN PLACE AND READY FOR OPERATION OR USE THE ITEM REFERRED TO OR DESCRIBED HEREIN AND/OR SHOWN OR REFERRED TO ON THE CONTRACT DRAWINGS.

EQUIPMENT APPLICATION AND PERFORMANCE

THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE TO SEE THAT EQUIPMENT SUPPLIED IS CORRECT FOR THE INTENDED APPLICATION AND WILL PERFORM WITHIN THE LIMITS OF CAPACITY, NOISE, LIFE EXPECTANCY, PRESSURE DROP AND SPACE LIMITATIONS INTENDED FOR THAT EQUIPMENT AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIFICATIONS. THE SHOP DRAWINGS SHALL SHOW THE CAPACITY AND OPERATING CHARACTERISTICS OF THE EQUIPMENT.

WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN THAT SPECIFIED OR DETAILED ON THE DRAWINGS, WHICH REQUIRES ANY REDESIGN OF THE STRUCTURE, PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL, OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN, AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE, SHALL BE PREPARED BY THE SUBCONTRACTOR AT HIS OWN EXPENSE AND SUBMITTED FOR APPROVAL BY THE ARCHITECT.

WHERE SUCH APPROVED DEVIATION REQUIRES A DIFFERENT QUANTITY AND ARRANGEMENT OF PIPING, WIRING, CONDUIT, AND EQUIPMENT FROM THAT SPECIFIED OR INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL FURNISH AND INSTALL ANY SUCH PIPING, STRUCTURAL SUPPORTS, INSULATION, CONTROLLERS, MOTORS, STARTERS, ELECTRICAL WIRING AND CONDUIT, AND ANY OTHER ADDITIONAL EQUIPMENT REQUIRED BY THE SYSTEM, AT NO ADDITIONAL COST TO THE OWNER.

DUTIES OF CONTRACTOR

CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS CALLED FOR IN THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS, AND MUST FURNISH THE APPARATUS COMPLETE IN EVERY RESPECT. ANYTHING CALLED FOR IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS OR SHOWN ON THE DRAWINGS AND NOT CALLED FOR IN THE SPECIFICATIONS MUST BE FURNISHED BY THE CONTRACTOR.

CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE DETAILS OF THE CONSTRUCTION OF THE BUILDING. WORK UNDER THESE SPECIFICATIONS INSTALLED IMPROPERLY OR WHICH REQUIRES CHANGING DUE TO IMPROPER READING OR INTERPRETATION OF BUILDING PLANS SHALL BE CORRECTED AND CHANGED AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

CONDITIONS SOMETIMES OCCUR WHICH REQUIRE CERTAIN CHANGES IN DRAWINGS AND SPECIFICATIONS. IN THE EVENT THAT SUCH CHANGES IN DRAWINGS AND SPECIFICATIONS ARE NECESSARY, THE SAME ARE TO BE MADE BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER, PROVIDING SUCH CHANGES DO NOT REQUIRE FURNISHING MORE MATERIALS, OR PERFORMING MORE LABOR THAN THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS DEMANDS. IT IS UNDERSTOOD THAT WHILE THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE CONTRACTOR IS HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEM ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS. ANYTHING NOT ENTIRELY CLEAR IN THE DRAWINGS AND SPECIFICATION WILL BE FULLY EXPLAINED IF APPLICATION IS MADE TO THE ARCHITECT. SHOULD, HOWEVER, CONDITIONS ARISE WHERE IN THE JUDGMENT OF THE CONTRACTOR CERTAIN CHANGES WILL BE ADVISABLE, THE CONTRACTOR WILL COMMUNICATE WITH THE ARCHITECT AND SECURE HIS APPROVAL OF THESE CHANGES BEFORE GOING AHEAD WITH THE WORK.

THE RIGHT TO MAKE ANY RESPONSIBLE CHANGE IN LOCATION OF APPARATUS, EQUIPMENT, ROUTING OF PIPING UP TO THE TIME OF ROUGHING IN, IS RESERVED BY THE ARCHITECT WITHOUT INVOLVING ANY ADDITIONAL EXPENSE TO THE OWNER.

IT SHALL BE THE DUTY OF PROSPECTIVE CONTRACTORS TO VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH JOB CONDITIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF ADDITIONAL WORK NECESSITATED BY, OR CHANGES IN PLANS REQUIRED BECAUSE OF EVIDENT JOB CONDITIONS, THAT ARE NOT INDICATED ON THE DRAWINGS.

CODES, RULES, PERMITS AND FEES

ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.

ALL MATERIALS AND EQUIPMENT FOR THE ELECTRICAL PORTION OF THE PLUMBING SYSTEM SHALL BEAR THE APPROVAL LABEL, AND SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES, INC.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE **SOUTH CAROLINA** STATE BUILDING CODE, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION.

COOPERATION WITH OTHER TRADES

THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.

WHERE THE WORK OF THE CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR MAY INTERFERE WITH THE WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF SO DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL PREPARE COMPOSITE WORKING DRAWINGS AND SECTIONS AT A SUITABLE SCALE NOT LESS THAN 3/8" = 1'-0", CLEARLY SHOWING HOW HIS WORK IS TO BE INSTALLED IN RELATION TO THE WORK OF OTHER TRADES. IF THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATION WITH OTHER TRADES, OR SO AS TO CAUSE ANY INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.

THE CONTRACTOR SHALL FURNISH TO OTHER TRADES, AS REQUIRED, ALL NECESSARY TEMPLATES, PATTERNS, SETTING PLANS, AND SHOP DETAILS FOR THE PROPER INSTALLATION OF WORK AND FOR THE PURPOSE OF COORDINATING ADJACENT WORK.

SAFETY REQUIREMENTS

ALL SYSTEMS SHALL BE INSTALLED SO AS TO BE SAFE OPERATING AND ALL MOVING PARTS SHALL BE COVERED WHERE SUBJECT TO HUMAN CONTACT. ALL ROUGH EDGES OF EQUIPMENT AND MATERIALS SHALL BE MADE SMOOTH.

ALL SAFETY CONTROLS SHALL BE CHECKED UNDER THE SUPERVISION OF THE ARCHITECT'S REPRESENTATIVE AND EIGHT (8) COPIES OF TEST DATE SHOWING SETTING AND PERFORMANCE OF SAFETY CONTROLS SHALL BE SUBMITTED TO THE ARCHITECT. ALL PRESSURE VESSELS SHALL BE ASME STAMPED AND SHALL HAVE STAMPED RELIEF VALVES. WATER HEATERS SHALL BE PROVIDED WITH ASME STAMPED T & P RELIEF VALVE.

CONCEALED PIPE

IN GENERAL, ALL PIPES IN FINISHED SPACES SHALL BE RUN CONCEALED IN FLOORS, WALLS, PARTITIONS AND ABOVE CEILINGS. UNLESS OTHERWISE NOTED, ALL PIPE SHALL RUN INSIDE THE INSULATED PERIMETER OF THE BUILDING.

PROTECTION

THE CONTRACTOR SHALL PROTECT ALL WORK AND MATERIAL FROM DAMAGE, AND SHALL BE LIABLE FOR ALL DAMAGE DURING CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK AND EQUIPMENT UNTIL ALL CONSTRUCTION IS FINALLY INSPECTED, TESTED AND ACCEPTED. THE CONTRACTOR SHALL PROTECT WORK AGAINST THEFT, INJURY OR DAMAGE AND SHALL CAREFULLY STORE MATERIAL AND EQUIPMENT RECEIVED ON SITE WHICH IS NOT IMMEDIATELY INSTALLED. THE CONTRACTOR SHALL CLOSE OPEN ENDS OF WORK INCLUDING PIPE OR EQUIPMENT WITH TEMPORARY COVERS OR PLUGS DURING STORAGE AND CONSTRUCTION TO PREVENT ENTRY OF OBSTRUCTING MATERIALS OR DUST AND DEBRIS.

PROVIDE A PROTECTIVE COVERING OF NOT LESS THAN 0.004" THICK VINYL SHEETING (OR A SIMILAR APPROVED MATERIAL) TO BE USED IN COVERING ALL ITEMS OF EQUIPMENT, IMMEDIATELY AFTER THE EQUIPMENT HAS BEEN SET IN PLACE, (OR IF IN A PLACE OF STORAGE WITHIN THE BUILDING UNDER CONSTRUCTION) TO PREVENT THE ACCUMULATION OF DIRT, SAND, CEMENT, PLASTER, PAINT OR OTHER FOREIGN MATERIALS FROM COLLECTING ON THE EQUIPMENT AND/OR FOULING WORKING PARTS.

CLEANING

CLEAN FROM ALL EXPOSED INSULATION AND METAL SURFACES GREASE, DEBRIS OR OTHER FOREIGN MATERIAL.

CHROME PLATED FITTINGS, FIXTURES, PIPING AND TRIM SHALL BE POLISHED UPON COMPLETION.

EQUIPMENT SERVICEABILITY

ALL EQUIPMENT SHALL BE INSTALLED SO THAT IT CAN BE SERVICED AND/OR REMOVED WITHOUT DISMANTLING ANY OTHER BUILDING OR EQUIPMENT COMPONENTS. ALL EQUIPMENT IN OR CONNECTED TO PIPING SYSTEMS SHALL HAVE VALVES TO ISOLATE THIS EQUIPMENT FROM THE PIPING SYSTEM. THIS INCLUDES, BUT NOT NECESSARILY LIMITED TO CONTROL VALVES, WATER HEATERS, SENSORS, SWITCHES, PUMPS, TRAPS AND STRAINERS. UNIONS (SCREWED OR FLANGED) SHALL BE PROVIDED SO THAT ALL EQUIPMENT IS REMOVABLE.

ACCEPTANCE OF EQUIPMENT

CONTRACTOR SHALL MAKE ALL NECESSARY TESTS, TRIAL OPERATION BALANCING AND BALANCE TESTS, ETC., AS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER TO PROVE THAT ALL WORK UNDER THESE PLANS AND SPECIFICATION IS IN COMPLETE SERVICEABLE CONDITION AND WILL FUNCTION AS INTENDED.

UPON COMPLETION OF ALL WORK THE SYSTEM SHALL BE TESTED TO DETERMINE IF ANY EXCESS NOISE OR VIBRATION IS APPARENT DURING OPERATION OF THE SYSTEM. IF ANY SUCH OBJECTIONS ARE DETECTED IN THE SYSTEM OR NOISY EQUIPMENT FOUND, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING SAME. EQUIPMENT SHALL BE WIPED CLEAN WITH ALL TRACES OF OIL, DUST, DIRT AND PAINT SPOTS REMOVED. BEARINGS SHALL BE LUBRICATED AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL CONTROL VALVES AND EQUIPMENT SHALL BE ADJUSTED TO SETTING INDICATED.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THE COMPLETE PLUMBING SYSTEM AGAINST DEFECT DUE TO FAULTY MATERIALS, FAULTY WORKMANSHIP OR FAILURE DUE TO NEGLIGENCE OF THE CONTRACTOR. THIS GUARANTEE WILL EXCLUDE NORMAL WEAR AND TEAR, MAINTENANCE

LUBRICATION, REPLACEMENT OF EXPENDABLE COMPONENTS, OR ABUSE. THE GUARANTEE PERIOD SHALL BEGIN ON THE DATE OF THE FINAL ACCEPTANCE AND SHALL CONTINUE FOR A PERIOD OF 12 MONTHS DURING WHICH TIME THE CONTRACTOR SHALL MAKE GOOD SUCH DEFECTIVE WORKMANSHIP AND MATERIALS AND ANY DAMAGE RESULTING THERE FROM, WITHIN A REASONABLE TIME OF NOTICE GIVEN BY THE OWNER.

TEST

ALL PIPING SHALL BE TESTED BEFORE COVERING IS APPLIED OR WORK CONCEALED, AND ALL LEAKS CORRECTED BY REMOVAL OF DEFECTIVE MATERIAL AND/OR MAKING UP NEW JOINTS. EQUIPMENT SHALL BE PROTECTED FROM TEST PRESSURE BY CAPPING LINES OR WITH VALVES DURING TEST. CAULKING OF PIPING WILL NOT BE PERMITTED AND WHERE EVIDENT OF CAULKING IS NOTED, THE JOINTS SHALL BE REMOVED FORM THE PIPING SYSTEM REGARDLESS OF WHETHER OR NOT IT IS LEAKING.

TEST ALL WATER PIPING AT 125 PSI.

TEST ALL WASTE AND VENT PIPING WITH A 10 FOOT HEAD.

STERILIZATION OF WATER PIPING SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION 0601. AFTER THE PRESSURE TESTS HAVE BEEN MADE, THE SYSTEM SHALL BE FLUSHED WITH WATER. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE-WATER MIXTURE CALCIUM HYPOCHLORITE, SODIUM HYPOCHLORITE, OR CHLORINATED LIME-WATER MIXTURE. THE SOLUTION SHALL HAVE NOT LESS THAN 50 PPM AVAILABLE CHLORINE. THE DISINFECTING SOLUTION SHALL BE ALLOWED TO REMAIN IN THE SYSTEM FOR A MINIMUM PERIOD OF 24 HOURS. AFTER DISINFECTION, THE SYSTEM SHALL BE FLUSHED WITH CLEAN WATER UNTIL RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN .02 PPM. AFTER THE SYSTEM IS FLUSHED, WATER SAMPLES SHALL BE TAKEN AND TESTED AT THE CONTRACTOR'S EXPENSE BY AN INDEPENDENT TESTING LAB AND REPORTS SHALL BE FURNISHED TO THE ENGINEER'S FOR APPROVAL. IF THE WATER IS FOUND UNSAFE FOR HUMAN CONSUMPTION, THE DISINFECTION PROCEDURE SHALL BE REPEATED.

SOIL, WASTE, VENT AND DRAIN PIPING (CAST IRON)

SOIL, WASTE, VENT AND DRAIN PIPING, ABOVE GRADE, SHALL BE SERVICE WEIGHT ASTM A-74-69 BELL AND SPIGOT, BEARING THE LABEL OF THE CAST IRON SOIL PIPE INSTITUTE AND SHALL BE LISTED BY NSF INTERNATIONAL. THE CASINGS SHALL BE GRAY IRON OF GOOD QUALITY MADE BY CUPOLA, AIR FURNACE OR ELECTRIC FURNACE PROCESS. THE RESULTANT PIPE SHALL BE COMPACT, CLOSE GRAINED METAL, SOFT ENOUGH TO PERMIT CUTTING AND DRILLING. PIPE SHALL HAVE BEEN HYDROSTATICALLY TESTED AT NOT LESS THAN 50 POUNDS PER SQUARE INCH GAUGE. FACTORY COATED BY HEATING TO 300 DEGREES F. AND DRIPPING IN A BATH OF COAL TAR PITCH AND OIL.

JOINTS BETWEEN CAST IRON PIPE AND BETWEEN CAST IRON PIPE AND FITTINGS SHALL BE MADE WITH NEOPRENE PUSH GASKETS CONFORMING TO ASTM C-564. AT CONTRACTOR'S OPTION JOINTS ABOVE GRADE MAY BE MADE WITH NO-HUB BANDS USING HEAVY DUTY STAINLESS STEEL CLAMPS. BANDS AND CLAMPS SHALL CONFORM THE REQUIREMENT OF ASTM STANDARD C - 1540 AND SHALL BE 304 STAINLESS STEEL SHIELDED COUPLINGS. APPROVED MANUFACTURERS: CLAMP ALL 80, HUSKY HD2000, IDEAL HEAVY DUTY MD, OR MISSION HEAVY WEIGHT.

SOIL, WASTE, VENT AND DRAIN PIPING (PVC)

SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE SOLID WALL PVC PLASTIC PIPE AND FITTINGS CONFORMING TO ASTM D 2665. JOINTS FOR PVC PIPE SHALL BE SOLVENT CEMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DOMESTIC WATER PIPING

ALL DOMESTIC WATER PIPING SHALL BE HARD DRAWN COPPER TUBING ASTM B 88 TYPE "L" ABOVE GRADE, TYPE "K" BELOW GRADE.

FITTINGS FOR COPPER TUBING SHALL BE ANSI B16.18 OR B16.22 SOLDER JOINT FITTINGS. ENDS OF PIPE SHALL BE REAMED, PIPE AND FITTINGS CLEANED. FOR PIPE SIZES 1-1/4" AND SMALLER USE ONLY 95-5 (95% TIN AND 5% ANTIMONY) SOLDER WITH NON-CORROSIVE FLUX. FOR PIPE SIZES 1-1/2" AND LARGER USE ONLY HARD SOLDER SUCH AS "SIL-FOS" OR "SILVER SOLDER."

WITH OWNER'S APPROVAL, CPVC PLASTIC PIPING MAY BE USED FOR DOMESTIC WATER PIPE SIZES 3" AND SMALLER. PIPING SHALL MEET THE FOLLOWING STANDARDS, ASTM D2846; ASTM F441; ASTM F442; CSA B137.6.

WITH OWNER'S APPROVAL, PEX PIPING MAY BE USED FROM THE UNIT ISOLATION VALVE TO THE FIXTURES FOR DOMESTIC WATER PIPE SIZES 1" AND SMALLER. PIPING SHALL BE SDR9 CROSSLINKED POLYETHYLENE MANUFACTURED USING THE ENGEL METHOD (PEX-A). THE MINIMUM DEGREE OF CROSS-LINKING SHALL BE BETWEEN 70-89% WHEN TESTED IN ACCORDANCE WITH ASTM D2765, METHOD B. PIPING SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM F876 AND ASTM F877 AND TESTED FOR COMPLIANCE BY AN INDEPENDENT, THIRD-PARTY AGENCY. PIPING SHALL HAVE A MINIMUM MATERIAL DESIGNATION OF PEX 5106 AND SHALL COMPLY WITH NSF 14 AND NSF 61 AND BEAR THE "NSF-PW" MARKING. TEMPERATURE AND PRESSURE REQUIREMENTS SHALL BE IN ACCORDANCE WITH PPI TR-3: 73.4°F AT 80PSI, 180°F AT 100PSI AND 200°F AT 80PSI.

FITTINGS FOR PEX: ASTM F1960 COLD-EXPANSION FITTING MANUFACTURED FROM THE FOLLOWING MATERIAL TYPES

- UNS NO. C69300 LEAD-FREE (LF) BRASS
- 20% GLASS-FILLED POLYSULFONE AS SPECIFIED IN ASTM D6394
- UNREINFORCED POLYSULFONE (GROUP 01, CLASS 1, GRADE 2) AS SPECIFIED IN ASTM D6394
- POLYPHENYLSULFONE (GROUP 03, CLASS 1, GRADE 2) AS SPECIFIED IN ASTM D6394
- BLEND OF POLYPHENYLSULFONE (55-80%) AND UNREINFORCED POLYSULFONE (REM.) AS SPECIFIED IN ASTM D6394

REINFORCING COLD-EXPANSION RINGS SHALL BE MANUFACTURED FROM THE SAME SOURCE AS PEX-A PIPING AND MARKED "F1960". POTABLE WATER FITTINGS SHALL COMPLY WITH NSF 14 AND NSF 61 AND BEAR THE "NSF-PW" MARKING.

EXCAVATING AND BACKFILLING

IN BACKFILLING PIPE TRENCHES, APPROVED FILL SHALL FIRST BE COMPACTED FIRMLY AND EVENLY ON BOTH SIDES OF PIPE IN 6" LAYERS TO A DEPTH OF 12" OVER THE TOP OF THE PIPE. REMAINDER OF TRENCH SHALL BE BACKFILLED TO ESTABLISHED GRADE IN 6" LAYERS. COMPACT BETWEEN EACH LAYER WITH A HIGH-FREQUENCY VIBRATOR TAMPER SUCH AS DART SOIL COMPACTOR (AS MANUFACTURED BY DART MANUFACTURING COMPANY, DENVER, COLORADO). FILL SHALL BE COMPACTED TO DENSITY SPECIFIED UNDER EARTH WORK SECTION OF SPECIFICATIONS FOR SPECIFIED AREA THROUGH WHICH TRENCH PASSES. COMPACT FILL TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT ALL OTHER AREAS. EARTH BEARING PRESSURE AS INDICATED SHALL BE VERIFIED BY A TESTING LABORATORY, WHICH FOLLOWING THE CRITERIA SPECIFIED FOR FOUNDATION WALL TRENCH, ETC. IN THE EARTH WORK SECTION OF THE SPECIFICATIONS. THE REPORTS SHALL BE FORWARDED TO THE ARCHITECT FOR APPROVAL UNLESS OTHERWISE SPECIFIED, THE COST WILL BE BORNE BY THIS CONTRACTOR, BEFORE ANY WORK IS PERFORMED. IF THE EARTH BEARING PRESSURE IS LESS THAN THAT REQUIRED, THE CONTRACTOR SHALL NOT BEGIN ADDITIONAL WORK UNTIL NOTIFIED BY THE ARCHITECT TO DO SO. A COPY OF THE REPORT SHALL BE FORWARDED TO THE ARCHITECT IN TRIPLICATE.

HANGERS

ALL PIPING SHALL BE SUPPORTED ON NOT LESS THAN 10' CENTERS AND WITHIN 30" OF EACH CHANGE OF DIRECTION EXCEPT THAT PIPING 1 1/4" SIZE AND SMALLER SHALL BE SUPPORTED ON 8' 0" CENTERS.

PIPE HANGERS SHALL BE SUPPORTED BY MEANS OF IRON HANGER RODS FROM THE BUILDING CONSTRUCTION OR FROM STRUCTURAL STEEL MEMBERS, AND IN AN APPROVED MANNER. WHERE REQUIRE, PIPING SHALL BE HUNG FROM ANGLE IRON CLIPS OR SUITABLE BRACKETS ATTACHED TO SIDES OF MASONRY CONSTRUCTION.

PIPE INSULATION

ALL WATER PIPING SHALL BE INSULATED WITH AN APPROVED MINIMUM 1" THICK MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/HxFT^2x°F, PER SECTION C404.4 OF THE **2009 IECC.**

APPROVED MATERIALS FOR PIPE INSULATION:

a) HEAVY DENSITY FIBERGLASS WITH AN ALL-SERVICE JACKET COMPOSED OF AN OUTER LAYER OF VINYL, FIBERGLASS SCRIM CLOTH, ALUMINUM FOIL, AND KRAFT PAPER, IN THAT ORDER, FROM OUTSIDE TO INSIDE OF PIPE COVERING.
b) FLEXIBLE ELASTOMERIC FOAM INSULATION.

VALVE TAGS AND SCHEDULE

EACH VALVE SHALL BE PROVIDED WITH AN ENGRAVED BLACK FINISH, PHENOLIC VALVE TAG INDICATING VALVE SERVICE AND VALVE NUMBER. TAG LETTERING SHALL BE AT LEAST 1/4" HIGH ETCHED WHITE LETTERS AND BEVELED WHITE TRIM. TAGS TO BE ATTACHED USING BRASS CHAINS. PROVIDE STEEL COLOR CODED 3/4 INCH DIAMETER CEILING TACKS IN ACOUSTICAL TILE CEILINGS OR COLOR CODED TAPE APPLIED TO CEILING GRID TO LOCATE EQUIPMENT OR VALVES THAT ARE INSTALLED ABOVE CEILING.

VALVES

BALL VALVES SHALL BE CAST RED BRONZE WITH TWO PIECE BODY, FULL PORT. WHEN INSTALLED IN INSULATED PIPING FURNISH EXTENDED TEE HANDLE. ALL ISOLATION VALVES INSTALLED ABOVE CEILINGS SHALL BE BALL VALVES.

PLUMBING FIXTURE SCHEDULE

ALL PLUMBING FIXTURES MUST BE REVIEWED AND APPROVED BY OWNER PRIOR TO ORDERING.

SYM	DESCRIPTION	CW	HW	W	V	MODEL NUMBER	REMARKS
P-1	WATER CLOSET	1 1/4"	–	3"	2"	KOHLER "WELLCOMME" K-96053-0; BENEKE 527SS SEAT; SLOAN ROYAL 115-1.6-YK FLUSH VALVE	1,4,5,6
P-2	WATER CLOSET (ADA)	1 1/4"	–	3"	2"	KOHLER "HIGHCLIFF" K-96057-0; BENEKE 527SS SEAT; SLOAN ROYAL 111 FLUSH VALVE	1,4,5,6,7, 8
P-3	URINAL	3/4"	–	2"	2"	KOHLER "DEXTER" K-5016-ET W/SLOAN ROYAL 186-1 FLUSH VALVE	1,3,4,6
P-4	LAVATORY (TRI-BASIN)	1/2" (3)	1/2" (3)	2" (3)	2" (3)	BRADLEY EXPRESS ELX-3; S53-31000R TOUCH-FREE VERGE FAUCET; K-7608-CP SUPPLY; K-8998 TRAP, K-7129-A DRAIN.	1,2,3,9,10,11

1. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL FIXTURES.
2. INCLUDE ADA COMPLIANT OFFSET SINK STRAINER; PROVIDE TRUEBRO MODEL 102 INSULATION KIT, PLUMBEREX MODEL PRO-2000 OR McGUIRE PWV8902 PREWRAPPED CAST P-TRAP ASSEMBLY KIT ON ALL HANDICAP ACCESSIBLE LAVATORIES AND/OR SINKS.
3. PROVIDE CARRIERS FOR ALL WALL MOUNTED FIXTURES. FOR LAVATORIES: SINGLE HANGER FOR BLOCK WALLS; FOR GYPBOARD WALL, PROVIDE FLOOR-MOUNT ARM CARRIERS (CONCEALED OR EXPOSED PER MFR'S REQUIREMENTS).
4. EQUAL CHINA FIXTURE BY AMERICAN STANDARD, ZURN & SLOAN.
5. EQUAL TOILET SEAT BY BEMIS, OLSONITE & BENEKE.
6. EQUAL FLUSH VALVES BY ZURN & TOTO.
7. TOP OF FLUSH VALVE SHALL BE LOCATED MINIMUM 3" BELOW BOTTOM OF GRAB BAR. P.C. TO CUT OUTLET TUBE AS REQUIRED.
8. FLUSH VALVE MECHANISM SHALL BE LOCATED OPPOSITE OF HAND RAIL AS PER ADA REQUIREMENT.
9. EQUAL FAUCETS BY SYMMONS, CHICAGO FAUCETS, DELTA, MOEN, ZURN & AMERICAN STANDARD.
10. WHEN ASTERISK ("*") PREFIX IS USED, PROVIDE TRAP PRIMER AND PIPE 1/2" LINE BELOW SLAB TO FLOOR DRAIN.
11. EQUAL CAST IRON LAVATORIES BY CECO & ZURN.

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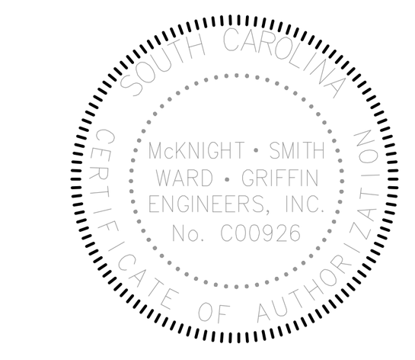
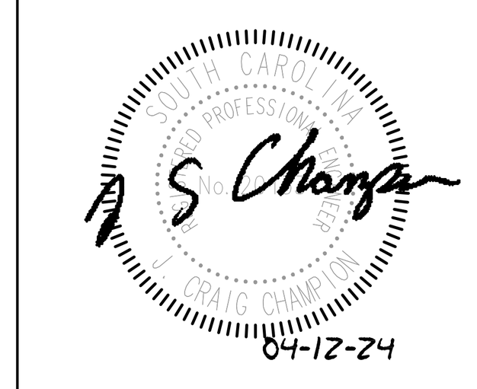




PROJECT TITLE

Aynor
High School
Auditorium
Renovations

Aynor,
South Carolina

FILE NUMBER 2321

SHEET TITLE:

PLUMBING
SCHEDULES & SPECIFICATIONS

DATE 04.12.24

SHEET NUMBER

P301

SYMBOL SCHEDULE

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
	CONDUIT RUN CONCEALED ABOVE CEILINGS OR IN WALLS.
	CONDUIT RUN CONCEALED IN OR BELOW FLOORS OR UNDERGROUND.
	CONDUIT RUN EXPOSED.
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	SQUARE ON CONDUIT SYMBOL INDICATES THAT CIRCUIT CONTINUES BUT NOT SWITCHLEG.
	HOMERUN TO PANEL AND CIRCUIT(S) DESIGNATED. ARROW(S) INDICATE QUANTITY OF CIRCUITS.
J	JUNCTION BOX PER N.E.C.
1	SPECIAL NOTE, NUMERALS IDENTIFY, SEE SCHEDULE.
1	SPECIAL CONNECTION TO A SPECIFIC ITEM OF EQUIPMENT. SEE CONNECTION SCHEDULE.

LIGHTING

SYMBOL	DESCRIPTION
	LED LIGHTING FIXTURE, DRAWN TO SCALE.
	LED LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT (SWITCHED)
	LED LIGHTING FIXTURE, UTILIZED AS A NIGHT-LIGHT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.
	LED LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT, CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.
	LED STRIP FIXTURE.
	LED STRIP FIXTURE CONNECTED TO AN EMERGENCY CIRCUIT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.
	LED LIGHTING FIXTURE, CEILING MOUNTED.
	LED LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST.
	LED LIGHTING FIXTURE. UTILIZED AS A NIGHT-LIGHT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.
	LED LIGHTING FIXTURE. CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.
	LED LIGHTING FIXTURE, WALL MOUNTED.
	LED LIGHTING FIXTURE, WALL MOUNTED. CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST.
	EXIT SIGN, CEILING MOUNTED. SHADING INDICATES FACE ORIENTATION. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. (PROVIDE ARROWS AS SHOWN ON PLAN BESIDE SYMBOL)
	EXIT SIGN, WALL MOUNTED. SHADING INDICATES FACE ORIENTATION. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT. (PROVIDE ARROWS AS SHOWN ON PLAN BESIDE SYMBOL)
	EMERGENCY BATTERY PACK FIXTURE, CEILING MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT.
	EMERGENCY BATTERY PACK FIXTURE, WALL MOUNTED. CONNECT TO UNSWITCHED LEG OF THE CIRCUIT.

DISTRIBUTION

SYMBOL	DESCRIPTION
	ELECTRICAL PANELBOARD, FLUSH MOUNTED.
	ELECTRICAL PANELBOARD, SURFACE MOUNTED.
	CONTROL CABINET, FLUSH OR SURFACE MOUNTED.
	MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER
	DISCONNECT SWITCH, NON-FUSIBLE.
	DISCONNECT SWITCH, FUSIBLE.
	DISCONNECT SWITCH PROVIDED WITH EQUIPMENT.
	GROUND CONNECTION.

FIRE ALARM SYSTEM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM SYSTEM CONTROL PANEL.
ANN	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR.
F	FIRE ALARM SYSTEM MANUAL 'PULL' STATION.
S	FIRE ALARM SYSTEM CEILING MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR.
	FIRE ALARM SYSTEM COMBINATION SPEAKER/VISUAL NOTIFICATION APPLIANCE DEVICE. PROVIDE SYNCHRONIZED STROBES WHERE 2 OR MORE STROBES ARE LOCATED IN ONE ROOM OR VISIBLE FROM ONE LOCATION.
	FIRE ALARM SYSTEM VISUAL ONLY NOTIFICATION APPLIANCE DEVICE. PROVIDE SYNCHRONIZED STROBES WHERE 2 OR MORE STROBES ARE LOCATED IN ONE ROOM OR VISIBLE FROM ONE LOCATION.
OM	FIRE ALARM SYSTEM OUTPUT MODULE.

WIRING DEVICES

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE.
EWC	DUPLEX RECEPTACLE, 125V, GROUND FAULT CIRCUIT INTERRUPTING, 3-WIRE GROUNDING TYPE. LOCATE WITHIN OR BEHIND AN ELECTRIC WATER COOLER. COORDINATE WITH PLUMBER FOR EXACT LOCATION.
GFI	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING.
WP	DUPLEX GFCI RECEPTACLE. PROVIDE WITH OPERABLE, IN-USE WEATHERPROOF COVER.
C	DUPLEX RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE. CEILING MOUNTED.
TR	DUPLEX RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE. TAMPER RESISTANT TYPE.
S	LIGHT SWITCH, SINGLE-POLE.
	EQUIPMENT CONTROL STATION. MOUNT 46" ABOVE FINISHED FLOOR.

ABBREVIATIONS

A	AMPERES	KW	KILOWATTS
ACC	ARMORED CLAD CABLE	LFNC	LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT
AFF	ABOVE FINISHED FLOOR	LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
AFG	ABOVE FINISHED GRADE	LVC	LOW VOLTAGE CONTROL CABINET
ANN	FIRE ALARM ANNUNCIATOR CABINET	MCB	MAIN CIRCUIT BREAKER
C	CONDUIT	MCC	METAL CLAD CABLE
CB	CIRCUIT BREAKER	MLO	MAIN LUGS ONLY
CKT	CIRCUIT	MTD	MOUNTED
CLG	CEILING	NMC	NON-METALLIC CLAD CABLE
DN	DOWN	PB	PULLBOX
DW	DISHWASHER	PNL	PANELBOARD
EC	EMPTY CONDUIT	PRS	PROGRAM RAPID START
EMT	ELECTRICAL METALLIC TUBING	PS	PROGRAM START
ENT	ELECTRICAL NON-METALLIC TUBING	PWR	POWER
EWC	ELECTRIC WATER COOLER	REC	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL	RMC	RIGID METAL CONDUIT
FMC	FLEXIBLE METAL CONDUIT	RS	RAPID START
G	GROUND	SC	FIRE ALARM PULL STATION
GFI	GROUND FAULT INTERRUPTER	SW	SWITCH
HOA	HAND OFF AUTOMATIC	SWBD	SWITCHBOARD
HP	HORSEPOWER	TTB	TELEPHONE TERMINAL BOARD
HPF	HIGH POWER FACTOR	TEL	TELEPHONE
HX	HIGH REACTANCE	TV	TELEVISION
IG	ISOLATED GROUND	TYP	TYPICAL
IMC	INTERMEDIATE METAL CONDUIT	V	VOLTS
IS	INSTANT START	VP	VAPOR PROOF
JB	JUNCTION BOX	W	WALL MOUNTED
KVA	KILOVOLT-AMPERES	WG	WIRE GUARD
FPN	FUSE PER NAMEPLATE	WP	WEATHER PROOF
		XFMR	TRANSFORMER

MOUNTING HEIGHTS

(DISTANCE FROM FINISHED FLOOR TO CENTER OF DEVICE UNLESS OTHERWISE NOTED)

RECEPTACLE	
GENERAL	18" AFF. (UNLESS OTHERWISE NOTED)
ABOVE COUNTER TOP	46" AFF. (UNLESS OTHERWISE NOTED)
LIGHT SWITCH	46" AFF. (UNLESS OTHERWISE NOTED)
TELECOMMUNICATIONS	
GENERAL	18" AFF. (UNLESS OTHERWISE NOTED)
ABOVE COUNTER TOP	46" AFF. (UNLESS OTHERWISE NOTED)
WALL	46" AFF.
TELEVISION	18" AFF. (UNLESS OTHERWISE NOTED)
FIRE ALARM	
PULL STATION	46" AFF.
AUDIBLE/STROBE COMBINATION OR STROBE DEVICE ONLY	THE BOTTOM OF THE APPLIANCE SHALL BE: 80" ABOVE THE FINISHED FLOOR.

ELECTRICAL SPECIFICATIONS

1. PROVIDE ALL WORK AND MATERIALS REQUIRED FOR A COMPLETE AND WORKMANLIKE INSTALLATION AS SHOWN BY THE THE DRAWINGS AND SPECIFIED HEREIN.

2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE, AND LOCAL CODES. ELECTRICAL MATERIALS SHALL BE NEW AND SHALL COMPLY WITH ALL APPLICABLE NEMA, U.L., ANSI, OSHA, AND ICEA STANDARDS.

3. PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE PROPER INSTALLATION OF THIS WORK AND REPAIR ANY DAMAGE DONE AS A RESULT OF THIS WORK.

4. AN ELECTRICAL INSPECTION CERTIFICATE SHALL BE ISSUED BY THE AUTHORITIES HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.

5. ALL ELECTRICAL CONDUIT AND CONDUCTORS WHICH ARE ABANDONED SHALL EITHER BE REMOVED COMPLETELY OR MECHANICALLY AND ELECTRICALLY SECURED. BACK BOXES OF OUTLETS AND SWITCHES SHOWN TO BE REMOVED FROM THE WALLS REMAINING SHALL BE REMOVED AND THE WALL PROPERLY PATCHED. ALL EXISTING ELECTRICAL OUTLETS NOT SHOWN TO BE REMOVED SHALL BE RECONNECTED. ALL MATERIALS AND EQUIPMENT NOTED TO BE REUSED IN THE NEW WORK SHALL BE CLEANED AND, IF NECESSARY, REPAIRED AND SHALL BE STORED AND PROTECTED ON THE SITE. ALL REUSED FIXTURES SHALL BE RELAMPED. PROVIDE OUTLET BOX EXTENSIONS WHERE NEW WALL FINISHES REQUIRED ADDITIONAL OUTLET BOX DEPTH. RELOCATE ANY EXISTING CONDUITS, CONDUCTORS, FIXTURES, AND OUTLETS WHERE REQUIRED BY THIS WORK.

6. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN, AND SOLID OF #10, #12, AND #14 AWG AND STRANDED FOR #8 AWG AND LARGER. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS. CONDUCTORS SHALL BE COLOR CODED BROWN/ORANGE/YELLOW FOR 277/480 VOLT SYSTEM, (PHASE A/ PHASE B/ PHASE C) CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. NO SPLICES SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. SPLICES SHALL BE MADE BY TWISTING SECURELY AND FASTENING WITH U.L. LISTED, PRESSURE-TYPE TWIST ON INSULATED-WIRE CONNECTORS OF THE SAME TEMPERATURE RATING AS THE CONDUCTORS. SPLICES TO LIGHT FIXTURE LEADS SHALL BE MADE WITH PLASTIC WIRE NUTS.

7. ALL WIRING SHALL BE IN CONDUIT. WHERE CONCEALED WIRING SHALL BE METAL CLAD (MC) CABLE UNLESS OTHERWISE NOTED. WHERE EXPOSED, WIRING SHALL BE IN ELECTRICAL METALLIC TUBING (EMT), i-INCH TRADE SIZE MINIMUM. WHERE EMT IS USED, FITTINGS SHALL BE THREADLESS-COMPRESSION TYPE GALVANIZED STEEL. WHERE FLEXIBLE METAL CONDUIT IS USED, CONNECTORS SHALL BE T & B NYLON-INSULATED "TITE-BITE".

8. OUTLET BOXES SHALL BE GALVANIZED SHEET STEEL. FIXTURE OUTLET BOXES ON CEILINGS SHALL NOT BE LESS THAN 4 INCHES OCTAGONAL OUTLET BOXES ON NEW GYPSUM DRYWALL WALLS SHALL BE 4 INCHES SQUARE WITH SQUARE-CUT COVER EXTENSIONS.

9. SWITCHES AND RECEPTACLES SHALL BE SPECIFICATION GRADE BY ARROW-HART, GENERAL ELECTRIC, BRYANT, OR HUBBELL. PLATES SHALL BE 302 STAINLESS STEEL.

10. OUTLET AND JUNCTION BOXES SHALL BE CAST TYPE WITH THREADED HUBS. BOXES AND ENCLOSURES LARGER THAN 5 INCHES SQUARE SHALL BE NEMA 12.

11. ALL CONDUIT SHALL BE RUN AS HIGH AS POSSIBLE, PARALLEL WITH STRUCTURAL MEMBERS, SUPPORTED ON APPROVED TYPES OF GALVANIZED TRAPEZES, HANGERS, OR STRAPS.

12. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR EQUIPMENT CONNECTIONS, BUT NOT AS A WIRING METHOD OTHERWISE.

13. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE WITH REJECTION-TYPE FUSE CLIPS AND SUITABLE FOR 75°C CONDUCTOR TERMINATION.

14. A CONTINUOUS GREEN GROUND WIRE SHALL BE RUN WITH EACH CIRCUIT.

15. UPDATE PANEL DIRECTORY TO REFLECT ALL CHANGES REQUIRED BY THIS WORK.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLT.	LAMPS QTY	LAMPS TYPE	LAMPS BULB	LAMPS BASE	LAMPS TEMP	LAMPS CRI	LAMPS LUMENS	BALLASTS QTY	BALLASTS TYPE	WATTS	MOUNTING	MANUF. CATALOG NO.
DE	4" LED EMERGENCY ONLY (NORMALLY OFF) DOWNLIGHT. NARROW 20 DEGREE DISTRIBUTION. WHITE FINISH. FIXTURE TO ILLUMINATE WITH LOSS OF POWER OR FIRE ALARM.	277	–	LED	–	–	3500 K	85	1500	1	NON-DIMMING DRIVER	20	CEILING, RECESSED	METEOR #RF4N-30-F-358-277-NOD-R-WHT-WHT-20 OR APPROVED EQUAL
	EMERGENCY BATTERY/EXIT SIGN COMBO UNIT, WHITE THERMOPLASTIC HOUSING, UNIVERSAL MOUNTING, RED STENCIL FACE, SINGLE FACE, DIRECTIONAL ARROWS AS INDICATED, WITH SELF-CONTAINED BATTERY RESERVE, TWIN LAMP HEADS, CONNECT FIXTURE AHEAD OF ALL LOCAL AREA SWITCHING, FIXTURE SHALL NOT BE SWITCHED.	277	–	LED DIFFUSE	–	–	–	–	–	–	–	4.3	WALL OR CEILING AS INDICATED BY SYMBOL	LITHONIA #LHQM-LED-R-HO HUBBELL #COMPASS CC SERIES WILLIAMS #EXIT/EM/LED SERIES EMERGI-LITE #ELXN400 LED SERIES OR APPROVED EQUAL

EQUIPMENT CONNECTION SCHEDULE

SYM.	EQUIPMENT	LOAD	VOLT/ PHASE	DISCONNECT TYPE	DISCONNECT RATING	DISCONNECT POLES	DISCONNECT TRIP/FUSE	DISCONNECT ENCLO.	CONDUCTORS	RACEWAY TYPE	RACEWAY SIZE	NOTES
1	PLATFORM LIFT	15A	120/1	FDS	30	2	--	1	2#12,1#12G	FMC	1/2"	1

LEGEND

DISCONNECT TYPES
- ETCB = ELECTRONIC-TRIP CIRCUIT BREAKER
- FDS = FUSIBLE DISCONNECT SWITCH
- MCP = MOTOR CIRCUIT PROTECTOR
- NFDS = NON-FUSIBLE DISCONNECT SWITCH
- ST/DS = COMBINATION STARTER/DISCONNECT SWITCH
- TMCB = THERMAL-MAGNETIC CIRCUIT BREAKER
- TOG = HP RATED TOGGLE SWITCH

DISCONNECT ENCLOSURE TYPES
- 1 = NEMA 1 ENCLOSURE
- 3R = NEMA 3R ENCLOSURE
- 4 = NEMA 4 ENCLOSURE
- 4X = NEMA 4X ENCLOSURE

FPN = FUSE PER NAMEPLATE

RACEWAY TYPES
- EMT = ELECTRIC METALLIC TUBING
- FMC = FLEXIBLE METAL CONDUIT
- IMC = INTERMEDIATE METAL CONDUIT
- LFMC = LIQUID-TIGHT FLEXIBLE METAL CONDUIT
- PVC = NON-METALLIC PVC CONDUIT
- RMC = RIGID METAL CONDUIT

STARTER TYPES
- CFVNR = COMBINATION FULL VOLTAGE, NONREVERSING

CONTROL DEVICES
- HOA = HAND-OFF-AUTO
- RPL = RED PILOT LIGHT
- AUX = AUXILIARY CONTACTS (2 N.O., 1 N.C.)
- CT50 = 50 VA CONTROL TRANSFORMER

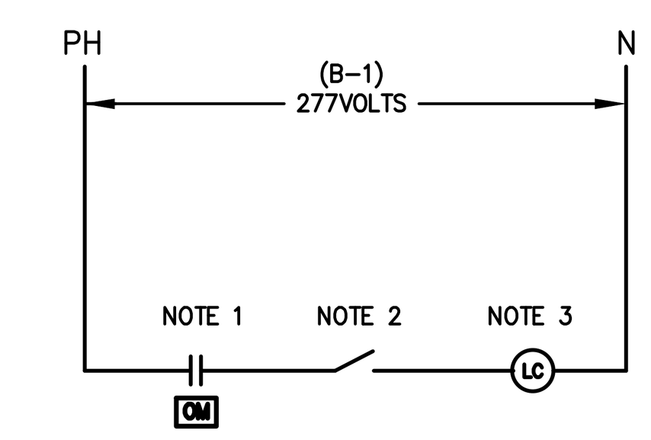
NOTES

ALL ELECTRICAL CHARACTERISTICS SCHEDULED ABOVE ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH EQUIPMENT SUPPLIER(S) PRIOR TO ROUGHING, AND SHALL VERIFY EXACT LOCATION AND EXACT TYPE OF CONNECTION. ALL EQUIPMENT SHALL BE PROPERLY AND SECURELY GROUNDED. ANY SIGNIFICANT CHANGES IN LOCATION, ELECTRICAL REQUIREMENTS, OR TYPE OF CONNECTION REQUIRED FOR ANY EQUIPMENT SCHEDULED ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO PROCEEDING.

CONDUCTORS AND RACEWAY SPECIFIED IN THE ABOVE SCHEDULE ARE FOR FINAL CONNECTION TO UNIT AND SHALL BE EXTENDED FROM THE DISCONNECT SHOWN ON THE FLOOR PLANS TO THE EQUIPMENT TERMINATION BOX.

CONDUIT AND BOXES REQUIRED FOR EQUIPMENT CONNECTIONS SHALL BE INSTALLED IN SUCH A WAY AS TO NOT COVER UP EQUIPMENT NAMEPLATES, SERVICE AREAS, AIR FLOW AREAS, ETC.

1 UTILIZE ONLY ONE POLE OF TWO POLE DISCONNECT SWITCH FOR CIRCUIT DISCONNECTION. DO NOT SWITCH CIRCUIT NEUTRAL.



NOTES:

1. NORMALLY OPEN CONTACTS ASSOCIATED WITH NEW FIRE ALARM SYSTEM OUTPUT MODULE. EXISTING FIRE ALARM SYSTEM IS AN EDWARDS EST3 SYSTEM. CONTACTS SHALL CLOSE WHEN FIRE ALARM SYSTEM GOES INTO ALARM.

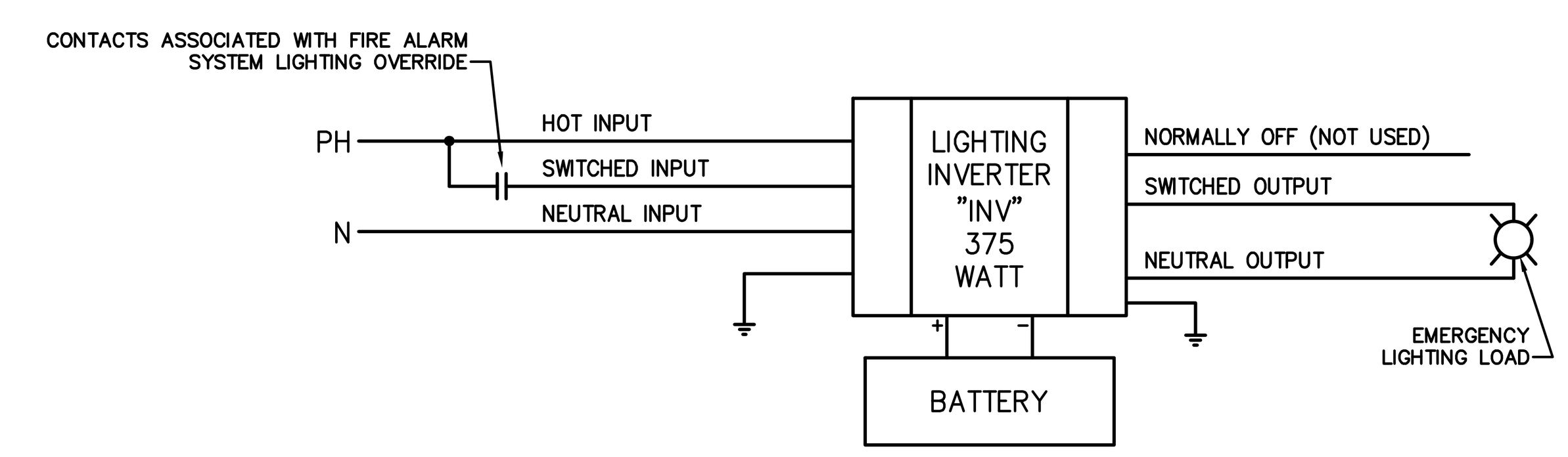
3. ROTARY ON-OFF SELECTOR SWITCH.

4. ELECTRICALLY HELD LIGHTING CONTACTOR WITH 20A BALLAST RATED CONTACTS. CONTACTOR SHALL BE OPEN TYPE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

5. MOUNT FIRE ALARM SYSTEM OUTPUT MODULE AND CONTACTOR IN 18"x 18"x 6" DEEP NEMA 1 ENCLOSURE WITH HINGED DOOR. MOUNT SELECTOR SWITCH ON DOOR. PROVIDE PERMANENT NAMEPLATE ON DOOR TO READ: "EMERGENCY LIGHTING CONTROL".

B-1 ⊣⊢ TO LIGHTING INVERTER SWITCHED INPUT

1 FIRE ALARM SYSTEM EMERGENCY LIGHTING OVERRIDE DIAGRAM
NOT TO SCALE



2 EMERGENCY LIGHTING MINI-INVERTER CONNECTION DIAGRAM
NOT TO SCALE

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41217 MATTHEW D. KNOTTS
4/12/2024

PROJECT TITLE

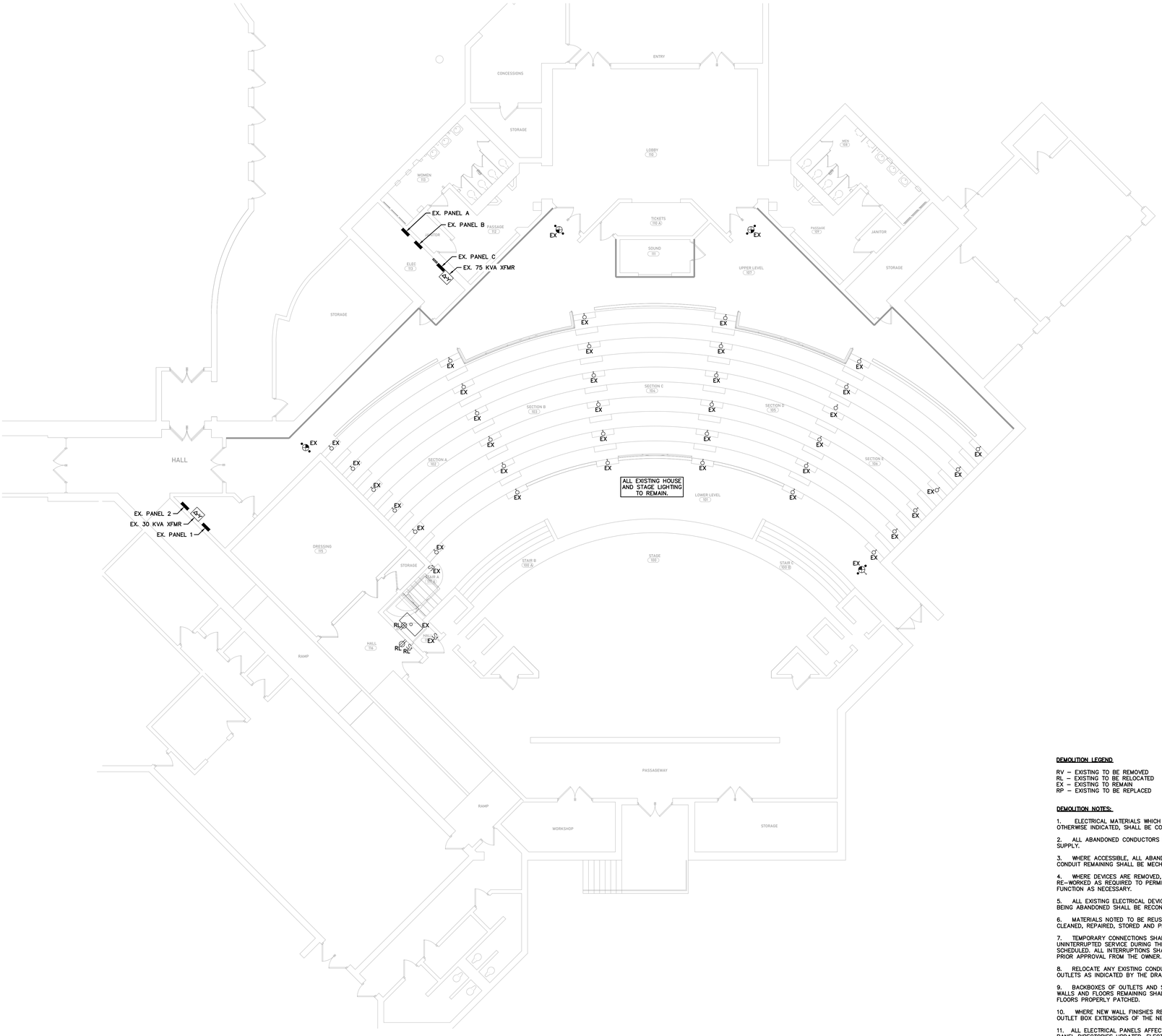
Aynor High School Auditorium Renovations
Aynor, South Carolina

FILE NUMBER 2321

SHEET TITLE:
ELECTRICAL SYMBOLS, SCHEDULES & DETAILS

DATE 04.12.24

SHEET NUMBER
E101



1 ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION LEGEND

RV – EXISTING TO BE REMOVED
RL – EXISTING TO BE RELOCATED
EX – EXISTING TO REMAIN
RP – EXISTING TO BE REPLACED

DEMOLITION NOTES:

1. ELECTRICAL MATERIALS WHICH ARE BEING REMOVED, UNLESS OTHERWISE INDICATED, SHALL BE COME THE PROPERTY OF THE CONTRACTOR.
2. ALL ABANDONED CONDUCTORS SHALL BE REMOVED BACK TO POINT OF SUPPLY.
3. WHERE ACCESSIBLE, ALL ABANDONED CONDUIT SHALL BE REMOVED. ALL CONDUIT REMAINING SHALL BE MECHANICALLY SECURED.
4. WHERE DEVICES ARE REMOVED, CIRCUIT WIRING AND CONDUIT SHALL BE RE-WORKED AS REQUIRED TO PERMIT REMAINING DEVICES TO CONTINUE TO FUNCTION AS NECESSARY.
5. ALL EXISTING ELECTRICAL DEVICES AND EQUIPMENT NOT SHOWN AS BEING ABANDONED SHALL BE RECONNECTED.
6. MATERIALS NOTED TO BE REUSED IN THE NEW WORK SHALL BE CLEANED, REPAIRED, STORED AND PROTECTED ON THE SITE.
7. TEMPORARY CONNECTIONS SHALL BE PROVIDED TO ALLOW UNINTERRUPTED SERVICE DURING THE PERIOD OF CONSTRUCTION EXCEPT AS SCHEDULED. ALL INTERRUPTIONS SHALL BE SCHEDULED AND MUST HAVE PRIOR APPROVAL FROM THE OWNER.
8. RELOCATE ANY EXISTING CONDUITS, CONDUCTORS, FIXTURES AND OUTLETS AS INDICATED BY THE DRAWINGS.
9. BACKBOXES OF OUTLETS AND SWITCHES SHOWN TO BE REMOVED FROM WALLS AND FLOORS REMAINING SHALL BE REMOVED AND THE WALLS AND FLOORS PROPERLY PATCHED.
10. WHERE NEW WALL FINISHES REQUIRE ADDITIONAL BOX DEPTH, PROVIDE OUTLET BOX EXTENSIONS OF THE NECESSARY DEPTH.
11. ALL ELECTRICAL PANELS AFFECTED BY THIS WORK SHALL HAVE THEIR PANEL DIRECTORIES UPDATED. ELECTRICAL CONTRACTOR SHALL PROVIDE A TYPED UPDATED PANEL DIRECTORY FOR EVERY PANEL WHERE ELECTRICAL LOAD IS REMOVED OR ADDED BY THIS WORK.

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PROJECT TITLE

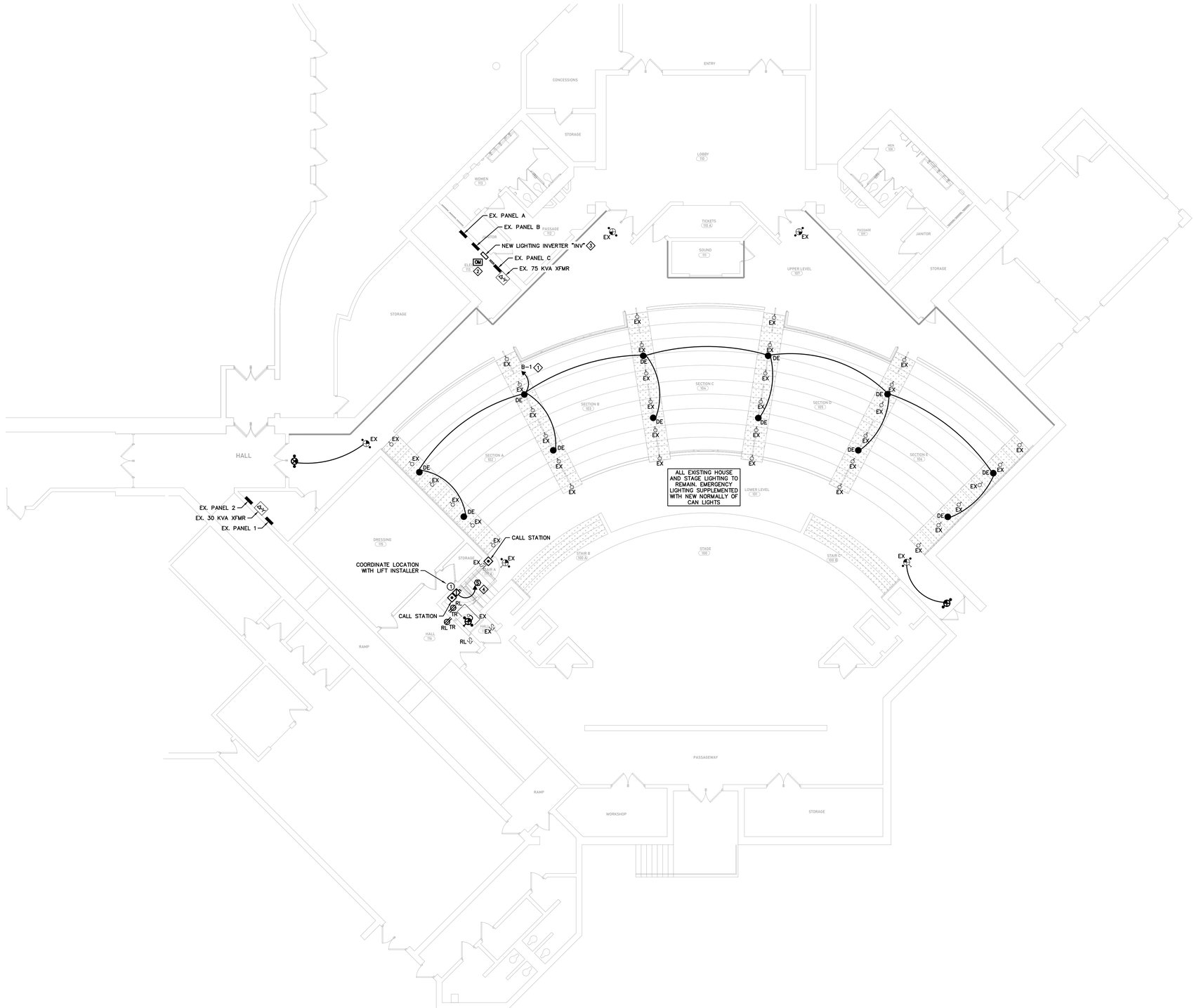
Aynor High School Auditorium Renovations
Aynor, South Carolina

FILE NUMBER 2321

SHEET TITLE:
ELECTRICAL DEMOLITION PLAN

DATE 04.12.24

SHEET NUMBER
E201



1 ELECTRICAL RENOVATION PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. ROUTE VIA LIGHTING INVERTER "INV". CONNECT TO EXISTING CIRCUIT B-1 WHICH FEEDS EXISTING HOUSE LIGHTS.
2. PROVIDE NEW FIRE ALARM SYSTEM OUTPUT MODULE FOR AUTOMATIC CONTROL OF EMERGENCY LIGHTS. REFER TO DIAGRAM "FIRE ALARM SYSTEM EMERGENCY LIGHTING OVERRIDE DIAGRAM" FOR ADDITIONAL INFORMATION.
3. PROVIDE NEW 375W LIGHTING INVERTER DUAL-LITE LITEGEAR LG375S OR APPROVED EQUAL.
4. IN SPACE AVAILABLE IN EXISTING PANEL C (208Y/120V, 3PH, 4W, GE NLAB, 300A MCB) PROVIDE NEW 20/1 CIRCUIT BREAKER AND CONNECT TO PLATFORM LIFT WITH 2#12,1#12G,1/2"C.

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PROJECT TITLE

Aynor High School Auditorium Renovations

Aynor, South Carolina

FILE NUMBER 2321

SHEET TITLE:
ELECTRICAL RENOVATION PLAN

DATE 04.12.24

SHEET NUMBER
E301