EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 STATE OF SOUTH CAROLINA REGISTERED ARCHITECT

TIMOTHY TODD SEASE WEST COLUMBIA 4136 STATE OF SOUTH CAROLINA REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

No	Description	Date

DRAWN BY:

CHECKED BY:

COMM NO: 22016

DATE: JANUARY 10, 2023

SHEET TITLE: COVER SHEET

SHEET NO: T101

INDEX OF DRAWINGS

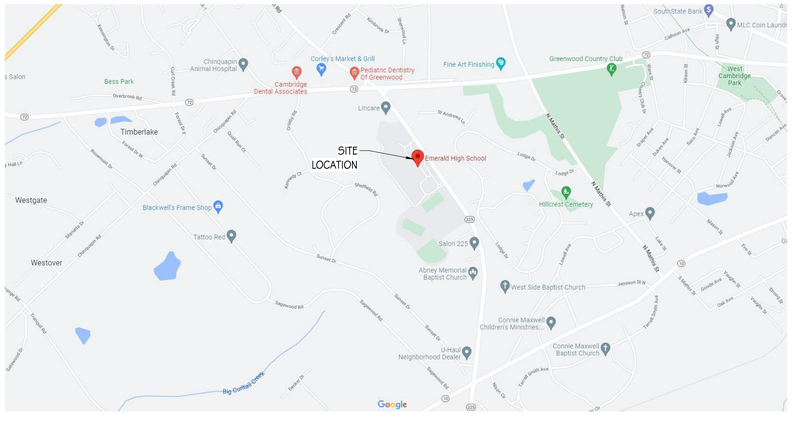
ABBREVIATIONS

ACT	ACOUSTICAL TILE	FLOUR	FLUORESCENT FIXTURE	PT	PAINT
ALUM	ALUMINUM	FTG	FOOTING	RD	ROOF DRAIN
BD	BOARD	GALV	GALVANIZED	REINF	REINFORCE (D) (ING)
BLKG	BLOCKING	GB	GRAB BAR	REQ'D	REQUIRED
CB	CHALK BOARD	GC	GENERAL CONTRACTOR	SCHED	SCHEDULE
CJ	CONTROL JOINT	GL	GLASS	SEC	SECTION
CT	CERAMIC TILE	GWB	GYPSUM WALL BOARD	SHT	SHEET
CMU	CONCRETE MASONRY UNIT	HM	HOLLOW METAL	SIM	SIMILAR
CONC	CONCRETE	HORIZ	HORIZONTAL	SS	STAINLESS STEEL
CONST	CONSTRUCTION	ID	INSIDE DIAMETER	STL	STEEL
CONT	CONTINUOUS	INSUL	INSULATION	SWC	SOLID WOOD CORE
COOR	COORDINATE	INT	INTERIOR	TB	TACK BOARD
CPT	CARPET	LAV	LAVATORY	TEMP	TEMPERED
CR	CLASSROOM	MAS	MASONRY	TOIL	TOILET
DBL	DOUBLE	MB	MARKER BOARD	TRT'D	TREATED
DS	DEEP SHELVES	MECH	MECHANICAL	TYP	TYPICAL
DTL	DETAIL	MFG/MFR	MANUFACTURER	UL	UNDERWRITER'S LABORATORY
DIM	DIMENSION	MIR	MIRROR	U.N.O.	UNLESS NOTED OTHERWISE
ELEV	ELEVATION	MO	MASONRY OPENING	VCT	VINYL COMPOSITION TILE
EA	EACH	MTL	METAL	VER	VERIFY
EJ	EXPANSION JOINT	NSG	NOSING	VERT	VERTICAL
ELEC	ELECTRICAL	NIC	NOT IN CONTRACT	VW	VIEW WINDOW
EQ	EQUAL	OC	ON CENTER	W/	WITH
EXIST	EXISTING	OD	OUTSIDE DIAMETER	W/O	WITH OUT
EXP	EXPANSION	OPNG	OPENING	WD	WOOD
EXT	EXTERIOR	PLAS LAM	PLASTIC LAMINATE		
FD	FLOOR DRAIN	PL	PLATE		
FE	FIRE EXTINGUISHER	PLUMB	PLUMBING		
FF	FINISH FLOOR	PR	PAIR		
FLR	FLOOR				

PROJECT CONTACTS

JOB SITE	___-___-____
CONTRACTOR'S OFFICE	___-___-____
OWNER GREENWOOD SCHOOL DISTRICT #50	___-___-____
ARCHITECT JUMPER CARTER SEASE/ARCHITECTS, P.A.	803-791-1020
STRUCTURAL ENGINEER TIMMERMAN STRUCTURAL ENGINEERING GROUP	803-779-8830
PLUMBING ENGINEER MECHANICAL DESIGN INC.	803-731-9834
MECHANICAL ENGINEER MECHANICAL DESIGN INC.	803-731-9834
ELECTRICAL ENGINEER SIMS GROUP ENGINEERS, INC.	803-765-1007
CIVIL ENGINEER JACKSON CIVIL ENGINEERING, LLC	803-603-0598

LOCATION MAP



Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA
JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA
C-74002
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
JOHN FOOD SEASE
WEST COLUMBIA
4136
REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

No	Description	Date

DRAWN BY:
CHECKED BY:
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: DRAWING INDEX, ABBREV., CONTACTS
SHEET NO: T102

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

Date: 1/10/2023

SUBMITTAL:	☐ Schematic	☐ Design Development	☒ Construction Document

SC CODE EDITION:	2020	ICC CODE EDITION:	2018	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.)]*
New Secure entry and parent/bus drives with new parking. DBB method of delivery.

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**	IIB				
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**	NA SF	SF	SF	SF	SF
What percent of the story is the aggregate of the accessory occupancy (ies)?	**Section 508.2**	NA %	%	%	%	%
Mixed Occupancy	**Section 508**	☐ YES ☒ NO ☐ Nonseparated ☐ Separated	☐ YES ☐ NO ☐ Nonseparated ☐ Separated	☐ YES ☐ NO ☐ Nonseparated ☐ Separated	☐ YES ☐ NO ☐ Nonseparated ☐ Separated	☐ YES ☐ NO ☐ Nonseparated ☐ Separated

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

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: 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 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:	2003 IBC		
Existing Sprinkler System?	☒ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☒ Auto	☐ Manual ☐ Auto	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO
Change of Occupancy:	☐ YES ☒ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s):	☐ YES ☐ NO Existing Occupancy Class(s):

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

		New Occupancy Classification(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 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)**

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

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

SUMMARY - BUILDING DESIGN OCCUPANT LOAD

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5
1st FLOOR	Occ				
TOTAL:	Occ	0	0	0	0

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

ALLOWABLE BUILDING AREA

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5
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 x w_1 + L_2 x w_2 + L_3 x w_3 +…) / F**	L_n =	L_n =	L_n =	L_n =	L_n =
W = Width of public way or open space	w_n =	w_n =	w_n =	w_n =	w_n =
L_n Length of a portion of the exterior perimeter wall. w_n Width (>= 20 feet) of public way or open space associated with that portion of the exterior perimeter wall.	W =	W =	W =	W =	W =
F Building perimeter that fronts on a public way or open space having a width of 20 feet or more	F =	F =	F =	F =	F =
IBC Section 506.3.3 Equation 5-5 where: **I_f = [F/P - 0.25] W/30**	P =	P =	P =	P =	P =
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	I_f =	I_f =	I_f =	I_f =	I_f =

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 $A_a = A_t + (N_s \times I_f)$	N_s = 14,500	N_s =	N_s =	N_s =	N_s =
☐ IBC Section 506.2.3 Equation 5-2 $A_a = [A_t + (N_s \times I_f)] \times S_a$ ☐ IBC Section 506.2.4 Equation 5-3 $A_a = [A_t + (N_s \times I_f)]$	S_a =	S_a =	S_a =	S_a =	S_a =
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 = 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)	1,298 SF	SF	SF	SF	SF

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 $A_a = A_t + (N_s \times I_f)$	N_s = 14,500	N_s =	N_s =	N_s =	N_s =
☐ IBC Section 506.2.3 Equation 5-2 $A_a = [A_t + (N_s \times I_f)] \times S_a$ ☐ IBC Section 506.2.4 Equation 5-3 $A_a = [A_t + (N_s \times I_f)]$	S_a =	S_a =	S_a =	S_a =	S_a =
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 = 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)	1,298 SF	SF	SF	SF	SF

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**	26	75				
In Stories	**Table 504.4**	1	3				

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

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**	☐ 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
Alternative Automatic Fire Extinguishing Kitchen Hoods Other	**SCFC Section 904**	☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

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	Section 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, Openness, 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)		☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
(Add others as needed)		☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

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

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

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, Hrs	**Table 602**	na				
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Floor Construction and associated secondary members	As Required, Hrs	**Table 601**	na				
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Roof Construction and associated secondary members	As Required, Hrs	**Table 601**	na				
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Walls	As Required, Hrs	**Section 706**	na				
	As Designed, Hrs		na				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Barriers	As Required, Hrs	**Section 707**	na				

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

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
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Partitions	As Required, Hrs	**Section 708**	na				
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Smoke Barriers	As Required, Hrs	**Section 709**	na				
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Smoke Partitions	As Required, Hrs	**Section 710**	na				
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Horizontal Assemblies	As Required, Hrs	**Section 711**	na				
	As Designed, Hrs						

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

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

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

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)**	632.2 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		Exist. Inches
Fire Department Connection	Location	Exist.
Backflow	Location	Exist.
	Type	Exist.
Fire Hydrant Flow Test	Date	8/13/2021
	Flow	1,285 GPM
	Residual	58 PSI
	Static	72 PSI

ENERGY INFORMATION

INSULATION		
Roof	Cavity	R
	Continuous	22.4 R
Walls	Cavity	R
	Continuous	13 R
Underslab		NA R
GLAZING (each type)		
Window to wall ratio	North	50 %
	East	0 %
	South	60 %
	West	0 %
Glass Type	U Factor	.28
	SHG	.22

Summary of data from approved ASHRAE 90.1 compliance sheets.

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

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

		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**	100 PSF	PSF	PSF	PSF	PSF
	Roof Live Load, R_{ll}		20 PSF	PSF	PSF	PSF	PSF
	Ground Snow Load, p_g		10 PSF	PSF	PSF	PSF	PSF
MISCELLANEOUS LOADS BY SPECIAL USE AREA *(ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC.)*		**ASCE 7**	PSF	PSF	PSF	PSF	PSF

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)**	D
Classes Soil of Materials (UCS System) **(SCBC 1803.5.1)**	See soil report
Allowable Footing Bearing Pressure	2500 psf
MINIMUM DESIGN SOIL BEARING LOAD **(SCBC Table 1806.2)**	2000 psf
COMPACTION	
Subgrade **(ASTM D698, ASTM D1557)** or **(AASHTO only for paving & roads)**	95 %
Base **(ASTM D698, ASTM D1557)** or **(AASHTO only for paving & roads)**	95 %
Other **(ASTM D698, ASTM D1557)** or **(AASHTO only for paving & roads)**	95 %
MINIMUM DESIGN SOIL LATERAL LOAD **(SCBC 1610.1)**	150asce psf
FOOTINGS	
Undisturbed footings	☐ no ☒ yes
Compacted Fill Material **(SCBC Section 1804.6)**	☐ no ☒ yes
ELEVATIONS	
Elevation of Water Table	Not noted
Elevation of lowest footing	630.00 MSL
Elevation of lowest floor or basement	632.20 MSL

STRUCTURAL DESIGN INFORMATION, BUILDING

WIND LOADS	Analysis Procedure **(ASCE 7 or SCBC 1609.6)**	ASCE7
	Basic design Wind Speed, MPH **(3 sec gust IBC Fig 1609.3)**	118 = V
	Exposure Category	
	Wind Importance Factor **(ASCE 7 Table 1.5-2)**	1 = I_w
	Internal Pressure Coefficient **(ASCE 7)**	.8 = GC_{pi}
	External Pressure Coefficient **(ASCE 7)**	+/-0.18 = GC_p
SEISMIC LOADS/ Earthquake	Seismic Importance Factor **(ASCE 7)**	1.25 = I
	Site Class **(SCBC Section 1613.3.2)**	D
	Mapped Spectral Response Accelerations	.302 = S_s .097 = S_1
	Design Spectral Response Acceleration Parameters	.313 = S_{DS} .155= S_{D1}
	Seismic Use Group **(ASCE 7 and Seismic Occupancy Category IBC)**	III
	Seismic Design Category **SCBC Tables 1613.3.5(1) & 1613.3.5(2)**	C
	Basic Seismic Force Resisting System	OMRSW
	Design Base Shear	18 KIPS
	Seismic Response Coefficient(s) **ASCE 7**	.144 = C_s
	Response Modification Factor(s) **ASCE 7**	5 = R
	Analysis Procedure	ELFP

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

SOUTH CAROLINA
STATE DEPARTMENT OF EDUCATION

Form F3 – Building Code Analysis

Provide a table for each structure.

PLUMBING INFORMATION

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

SUMMARY OF FIXTURES (SCPC Section 403 & Table 403.1)

Water Closets	Male-Required	
	Male WC -Provided	
	Male Urinal -Provided	
	Female-Required	
	Female-Provided	
Lavatories	Male-Required	
	Male-Provided	
	Female-Required	
	Female-Provided	
Showers	Male-Provided	
	Female-Provided	
Drinking Fountains	Required	
	Provided	
Family or Assisted-Use Toilet	Required	
	Provided	
Service Sink	Required	
	Provided	
Others (list)	Required	
	Provided	

these drawings are the property of jumper carter sease architects/pa, and may not be reproduced, copied or used in whole or in part without written consent of the architect, any infringement will be subject to legal action

Jumper
Carter
Sease
ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA
JUMPER CARTER SEASE ARCHITECTS, PA
WEST COLUMBIA
C-74002
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
LARRY TODD SEASE
WEST COLUMBIA
4136
REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

No	Description	Date

DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: FORM F3
SHEET NO: T103

BIM 360://22016 - GSD#50 - Emerald High Add & Renov/22016 - GSD#50 - Emerald High Add & Renov - v20.rvt
1/17/2023 7:10:34 AM

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	Greenwood, SC	
Climate Zone	3A	
Outdoor Design Temperature	Summer	95 deg F DB
		76 deg F WB
	Winter	20 deg F DB
Indoor Design Temperature	Summer	74 deg F DB
		50 % RH
	Winter	70 deg F DB
OUTSIDE AIR Per ASHRAE 62.1 (See Schedule on Drawings)		
Occupied Minimum Outside Air	10 cfm per person	
CO2 Demand Management	☒ no ☐ yes	
Supervised Control System	☐ no ☒ yes	
MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT Briefly describe mechanical system: Classrooms will be conditioned and ventilated with through wall, floor mounted, heat pumps with energy recovery wheels.		

ELECTRICAL INFORMATION		
SERVICE TRANSFORMER	☒ By Utility (Existing)	
	☐ By District	KVA Primary
		Voltage/Phase
ELECTRICALSERVICE INFORMATION		
Service Voltage/Phase	480/3PH	2500 Amperes (Exis)
Service Entrance Conductors Size	Existing	Exist Qty per Phase
Total Connected Load		93.2 KVA
Estimated Maximum Demand		69.9 KVA
Available Fault Current in Symmetrical Amperes		Existing
Interrupting Capacity of Service Overcurrent Device		Existing
Grounding electrode system components (NEC 250)		Existing
EMERGENCY SERVICE INFORMATION		
Emergency Generator	☒ no ☐ yes	Existing KVA
		480/3 Voltage/Phase
	Fuel	Diesel
Exit/Emergency Lights Backup Power		☐ Integral Battery
		☒ Generator
Fire Alarm System	☒ Manual	☐ Addressable
	☐ Automatic	☐ Class A
		☒ Class B
LIGHTNING PROTECTION PROVIDED		☐ no ☒ yes (SPD's)

SOUTH CAROLINA
STATE DEPARTMENT
OF EDUCATION

Form F3 – Building Code Analysis

Summary of data from approved ASHRAE 90.1 compliance ets.

MECHANICAL INFORMATION		
GENERAL INFORMATION		
Building Location	Greenwood, SC	
Climate Zone	3A	
Outdoor Design Temperature	Summer	95 deg F DB
		76 deg F WB
	Winter	20 deg F DB
		-- deg F WB
Indoor Design Temperature	Summer	74 deg F DB
		55 % RH
	Winter	70 deg F DB
		-- % RH
OUTSIDE AIR PER ASHRAE 62.1 (SEE SCHEDULES)		
Occupied Minimum Outside Air	10 cfm per person	
CO2 Demand Management	☐ no ☒ yes	
Supervised Control System	☐ no ☒ yes	
MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT Briefly describe mechanical system: Heating and Cooling is provided by packaged rooftop units		

Note: Expand as Needed. **Double Click to Edit & Change.**

Version April 2021

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA
JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA
C-74002
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
TIMOTHY SCOTT FODD SEASE
WEST COLUMBIA
4136
REGISTERED ARCHITECT

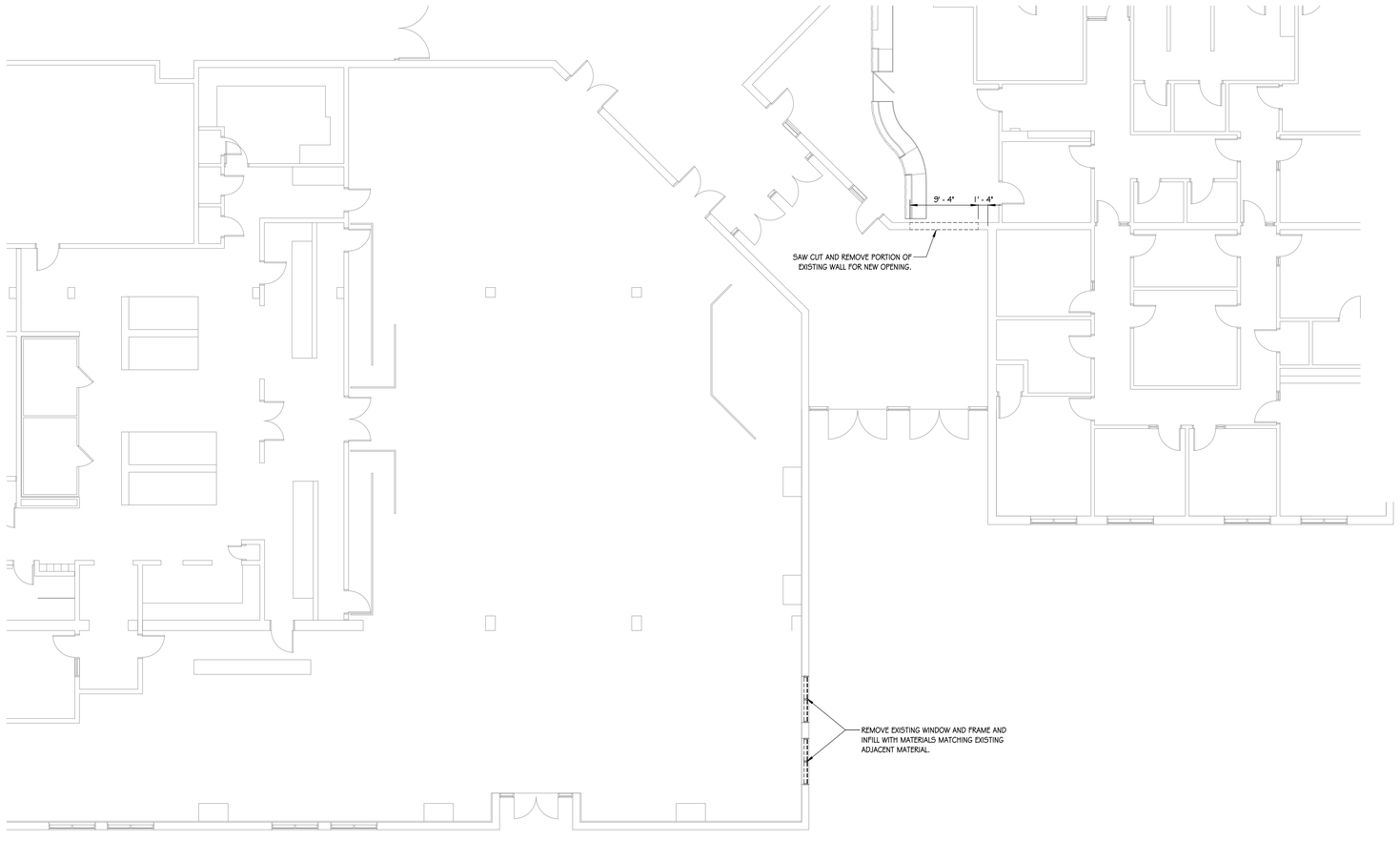
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

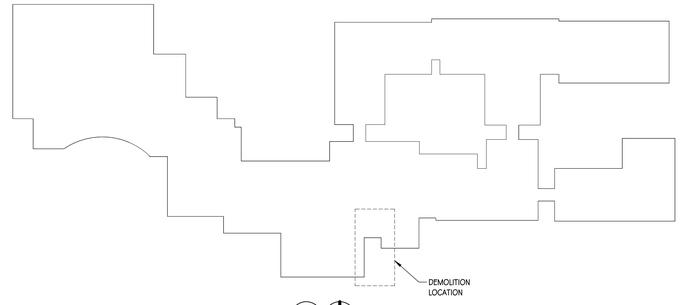
No	Description	Date

DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: FORM F3 CON'T

SHEET NO:
T103.1



DEMOLITION PLAN
1/8" = 1'-0"



KEY PLAN
TRUE PROJECT NORTH NORTH

LEGEND

INDICATES EXISTING WALL TO REMAIN (TYP.)

INDICATES EXISTING WALL OR OTHER ITEM TO BE REMOVED (TYP.)

GENERAL DEMOLITION NOTES

1. OWNER HAS THE RIGHTS TO ALL MATERIAL SCHEDULED TO BE REMOVED. IF OWNER REJECTS MATERIALS, CONTRACTOR SHALL DISPOSE OF IN A LEGAL MANNER.
2. ANY EXISTING CONSTRUCTION REQUIRED TO BE REMOVED TO ALLOW FOR NEW CONSTRUCTION AS SHOWN ON OTHER SHEETS WILL BE REMOVED AS NEEDED WHETHER SHOWN ON DEMOLITION PLANS OR NOT. THIS SHALL ALSO APPLY TO PLUMBING, HVAC AND ELECTRICAL. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
3. AT PORTIONS OF WALLS TO BE DEMOLISHED, REMOVE CMU TO NEAREST MASONRY JOINT AND INFILL NEW CMU BACK TO JOINT TO MEET NEW WALL DIMENSIONS ON PLAN. TOOTH INTO EXISTING.
4. PRIOR TO THE REMOVAL OF ANY WALLS OR OTHER ITEMS SCHEDULED FOR DEMOLITION, VERIFY THAT IT IS NOT STRUCTURAL PRIOR TO REMOVAL. SHOULD IT BE DETERMINED THAT IT IS STRUCTURAL, NOTIFY THE ARCHITECT IMMEDIATELY.
5. ALL ITEMS / MATERIAL TO BE REUSED AND/OR RELOCATED SHALL BE STORED IN A SAFE AND DRY ENVIRONMENT UNTIL REINSTALLATION. CONTRACTOR SHALL THOROUGHLY CLEAN ITEMS / MATERIALS TO BE RELOCATED.
6. SEE PLUMBING DRAWINGS FOR EXISTING PLUMBING EQUIPMENT, FIXTURES, ETC. TO BE REMOVED AND FOR UNDER-FLOOR ROUTING OF NEW PIPING - REMOVE EXISTING CONCRETE SLAB AS REQUIRED. PATCH BACK SLAB SMOOTH AND FLUSH WITH ADJACENT SLAB. TIE NEW SLAB INTO EXISTING WITH #4 STEEL DOWELS AND EPOXY AT 16" O.C. IMBEDDED 12" MINIMUM EA. SIDE. PROVIDE MEMBRANE WATERPROOFING BELOW SLAB IF EXISTING IS PRESENT.
7. SEE MECHANICAL DRAWINGS FOR EXISTING HVAC EQUIPMENT, UNITS, DUCTWORK, ETC. TO BE REMOVED.
8. SEE ELECTRICAL DRAWINGS FOR EXISTING POWER AND LIGHTING FIXTURES, EQUIPMENT, DEVICES, ETC. TO BE REMOVED. FLUORESCENT LIGHTING SCHEDULED TO BE REMOVED SHALL BE RECYCLED OR DISPOSED OF IN A SUBTITLE D/MSW LANDFILL IN ACCORDANCE WITH THE SC POLLUTION CONTROL ACT AND FEDERAL REGULATIONS.

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA — JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA — C-74002 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — TIMOTHY SCOTT FODD SEASE — WEST COLUMBIA — 4136 — REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

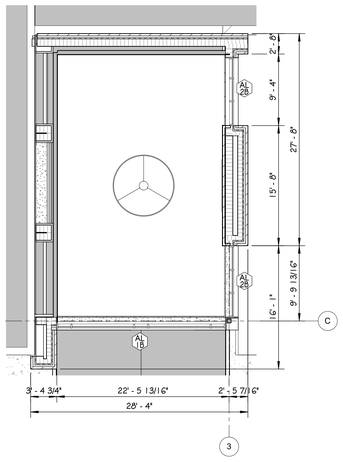
CD

No	Description	Date

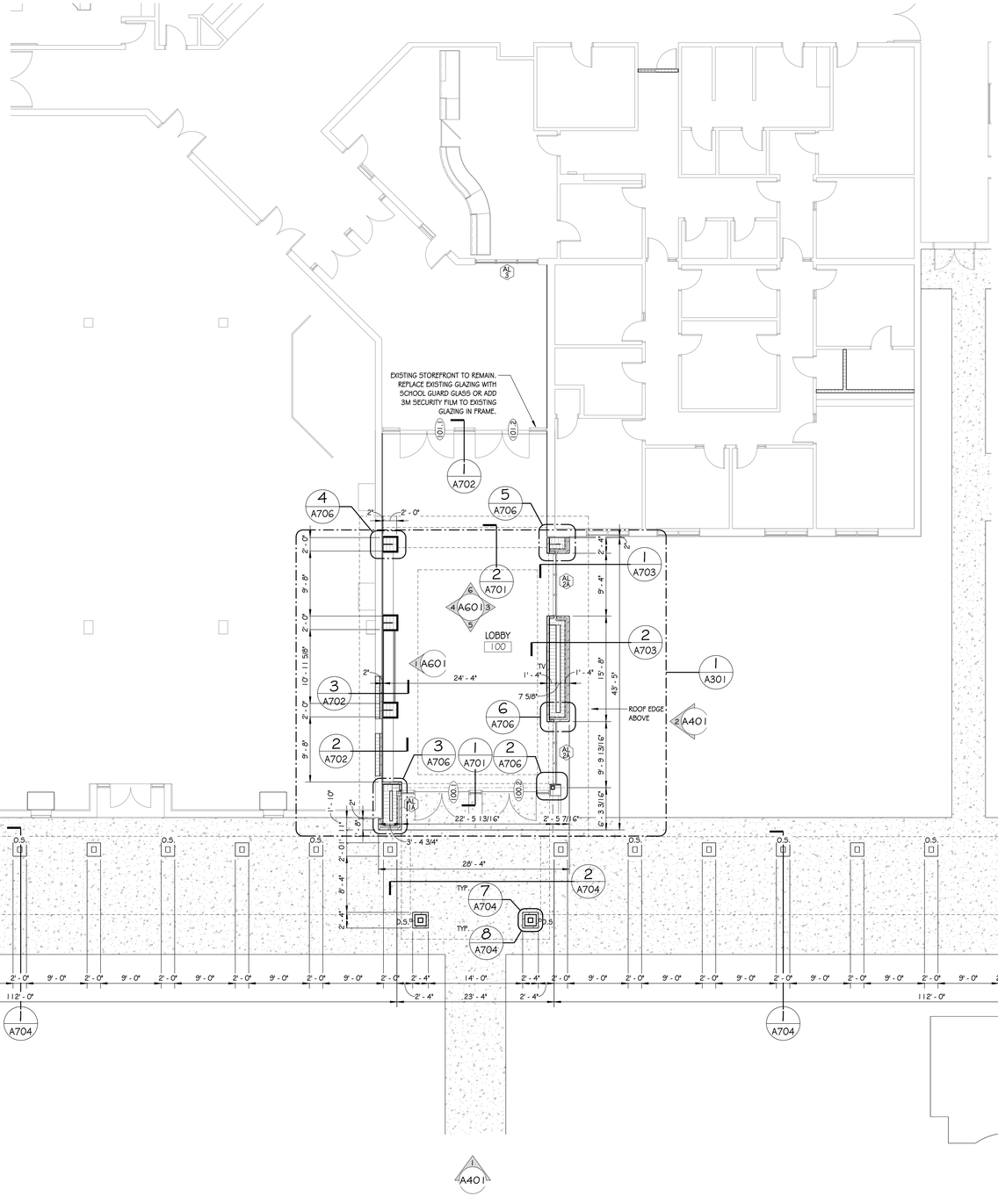
DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: DEMOLITION PLAN

SHEET NO: D101

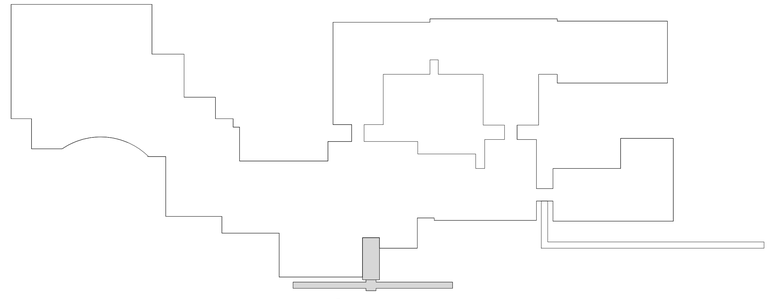
1/10/2023 4:23:32 PM
BIM 360://22016 - GSD#50 - Emerald High Add & Renov/22016 - GSD#50 - Emerald High Add & Renov - v20.rvt



1 A301 | A301 PARTIAL FLOOR PLAN - FRONT LOBBY CLERESTORY
1/8" = 1'-0"



PARTIAL FLOOR PLAN - FRONT LOBBY AND CANOPY
1/8" = 1'-0"



KEY PLAN
TRUE PROJECT NORTH NORTH

WALL LEGEND

- EXISTING WALL
- 8" CMU
- 1' - 4" EXTERIOR MASONRY WALL - 8" CMU AND FACE BRICK - SEE ELEVATIONS.

GENERAL NOTES

1. AT ALL EXTERIOR WALL OPENINGS FOR EXTERIOR WINDOWS: PROVIDE 90 DEGREE CORNER JAMB BLOCK AT THESE WINDOWS IN LIEU OF THE BULL-NOSED CORNER BLOCK. THIS WILL ALLOW FOR A CLEAN FINISHED CONDITION WITH THE SOLID SURFACE MATERIAL SILLS.
2. CONTRACTOR SHALL PERMANENTLY IDENTIFY WITH SIGNS OR STENCILING ABOVE CEILING ON BOTH SIDES OF ALL FIRE RATED WALLS AT 20'-0" MAXIMUM INTERVALS THE FOLLOWING: "(*) HOUR RATED FIRE BARRIER - PROTECT ALL OPENINGS." (* DENOTES THE HOUR RATING - 1, 2, OR 3 HOUR WALLS AS SHOWN ON PLANS). NOTATION SHALL BE IN 3" SANS SERIF, GOTHIC OR BLOCK LETTERING. CONNECT WITH CONTINUOUS 2" WIDE RED LINE BETWEEN EACH SIGN OR STENCIL. CONFIRM WITH ARCHITECT AT EXPOSED FIRE RATED WALLS, SIGNS (SIMILAR TO ROOM SIGNS) MAY BE USED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL OPENINGS IN MASONRY WALLS FOR HVAC ARE TO BE COORDINATED WITH STRUCTURAL LINTEL SCHEDULE FOR SIZE OF THE OPENING REQUIRED. REFER TO STRUCTURAL GENERAL NOTES.
4. C.J. = CONSTRUCTION JOINT AT CMU. SEE TYPICAL DETAILS. SPACE 40'-0" MAX. VERIFY LOCATIONS WITH ELEVATIONS OR ARCHITECT IF NOT SHOWN PRIOR TO INSTALLATION.
5. REFER TO SHEET A501, FINISH SCHEDULE FOR WALLS TO RECEIVE FURRING AND GWB FINISH.
6. DIMENSIONS - MASONRY WALLS ARE DIMENSIONED TO ONE SIDE (MASONRY DIMENSIONS SHOWN ON PLANS ARE NOMINAL). GWB/METAL FRAMED WALLS ARE DIMENSIONED TO THE CENTER.
7. SEE AG00 SHEET SERIES FOR TYPICAL CASEWORK AND ENLARGED AREA PLANS.
8. ALL CASEWORK NOT INDICATED AS "N.I.C." OR BY OWNER IS TO BE INCLUDED IN BUILDING # FINISHES SCOPE OF WORK. SEE AG00 SHEETS.
9. ALL MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION ROUGH-INS AT EXPOSED AREAS ARE TO BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALL. ALL CONDUITS AND PIPING MUST BE COORDINATED WITH OTHER TRADES AND CONCEALED. RELOCATION OF ROUGH-INS BY ANY TRADE AS DIRECTED BY THE ARCHITECT WILL BE AT NO COST TO OWNER WHEN CONTRACTOR FAILS TO COMPLY WITH THIS REQUIREMENT.
10. CONTRACTOR IS TO COORDINATE ROUTING OF CONDUIT AT EXTERIOR CANOPIES WITH ARCHITECT PRIOR TO ROUGH-IN # INSTALLATION. ALL EXPOSED MATERIALS ARE TO BE PAINTED AS DIRECTED BY ARCHITECT.
11. CONTRACTOR IS TO PROVIDE SOLID BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS ON METAL FRAMED WALL SYSTEMS. BLOCKING IS TO BE OFF SET FLUSH WITH BACK OF DRYWALL AT RESILIENT CHANNELS. MINIMUM CLEARANCES ARE INDICATED, HOWEVER, CONTRACTOR IS RESPONSIBLE FOR COORDINATION # CONFIRMATION W/ ENGINEER DOCUMENTS.

Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

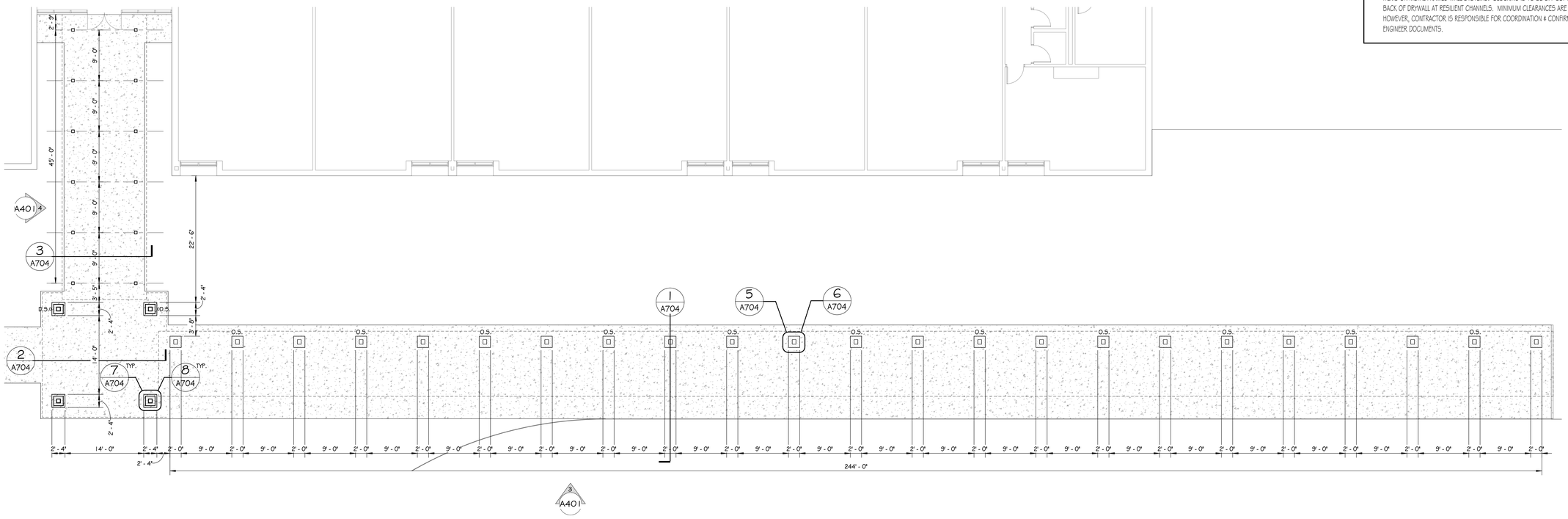
TIMOTHY FOOD SEASE WEST COLUMBIA 4136 REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

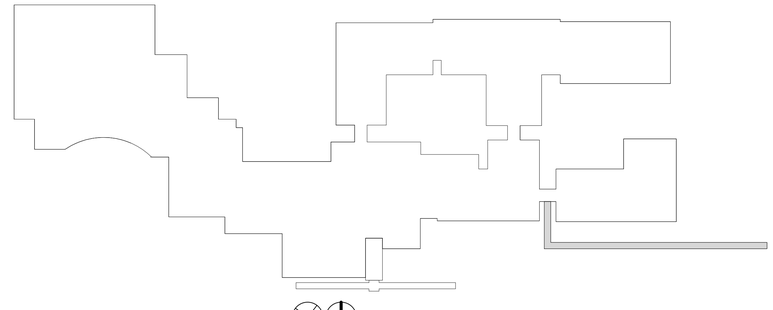
No	Description	Date

DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: PARTIAL FLOOR PLAN - FRONT LOBBY AND CANOPY
SHEET NO: A301



PARTIAL FLOOR PLAN - BUS DROP-OFF CANOPY

1/8" = 1'-0"



KEY PLAN

TRUE PROJECT NORTH NORTH

WALL LEGEND

- EXISTING WALL
- 8" CMU
- 1' - 4" EXTERIOR MASONRY WALL - 8" CMU AND FACE BRICK - SEE ELEVATIONS.

GENERAL NOTES

1. AT ALL EXTERIOR WALL OPENINGS FOR EXTERIOR WINDOWS: PROVIDE 90 DEGREE CORNER JAMB BLOCK AT THESE WINDOWS IN LIEU OF THE BULL-NOSED CORNER BLOCK. THIS WILL ALLOW FOR A CLEAN FINISHED CONDITION WITH THE SOLID SURFACE MATERIAL SILLS.
2. CONTRACTOR SHALL PERMANENTLY IDENTIFY WITH SIGNS OR STENCILING ABOVE CEILING ON BOTH SIDES OF ALL FIRE RATED WALLS AT 20'-0" MAXIMUM INTERVALS THE FOLLOWING: "(*) HOUR RATED FIRE BARRIER - PROTECT ALL OPENINGS." (* DENOTES THE HOUR RATING - 1, 2, OR 3 HOUR WALLS AS SHOWN ON PLANS). NOTATION SHALL BE IN 3" SANS SERIF, GOTHIC OR BLOCK LETTERING. CONNECT WITH CONTINUOUS 2" WIDE RED LINE BETWEEN EACH SIGN OR STENCIL. CONFIRM WITH ARCHITECT AT EXPOSED FIRE RATED WALLS. SIGNS (SIMILAR TO ROOM SIGNS) MAY BE USED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL OPENINGS IN MASONRY WALLS FOR HVAC ARE TO BE COORDINATED WITH STRUCTURAL LINTEL SCHEDULE FOR SIZE OF THE OPENING REQUIRED. REFER TO STRUCTURAL GENERAL NOTES.
4. C.J. = CONSTRUCTION JOINT AT CMU. SEE TYPICAL DETAILS. SPACE 40'-0" MAX. VERIFY LOCATIONS WITH ELEVATIONS OR ARCHITECT IF NOT SHOWN PRIOR TO INSTALLATION.
5. REFER TO SHEET A501, FINISH SCHEDULE FOR WALLS TO RECEIVE FURRING AND GWB FINISH.
6. DIMENSIONS - MASONRY WALLS ARE DIMENSIONED TO ONE SIDE (MASONRY DIMENSIONS SHOWN ON PLANS ARE NOMINAL). GWB/METAL FRAMED WALLS ARE DIMENSIONED TO THE CENTER.
7. SEE AG00 SHEET SERIES FOR TYPICAL CASEWORK AND ENLARGED AREA PLANS.
8. ALL CASEWORK NOT INDICATED AS "N.I.C." OR BY OWNER IS TO BE INCLUDED IN BUILDING & FINISHES SCOPE OF WORK. SEE AG00 SHEETS.
9. ALL MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION ROUGH-INS AT EXPOSED AREAS ARE TO BE REVIEWED WITH THE ARCHITECT PRIOR TO INSTALL. ALL CONDUITS AND PIPING MUST BE COORDINATED WITH OTHER TRADES AND CONCEALED. RELOCATION OF ROUGH-INS BY ANY TRADE AS DIRECTED BY THE ARCHITECT WILL BE AT NO COST TO OWNER WHEN CONTRACTOR FAILS TO COMPLY WITH THIS REQUIREMENT.
10. CONTRACTOR IS TO COORDINATE ROUTING OF CONDUIT AT EXTERIOR CANOPIES WITH ARCHITECT PRIOR TO ROUGH-IN & INSTALLATION. ALL EXPOSED MATERIALS ARE TO BE PAINTED AS DIRECTED BY ARCHITECT.
11. CONTRACTOR IS TO PROVIDE SOLID BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS ON METAL FRAMED WALL SYSTEMS. BLOCKING IS TO BE OFF SET FLUSH WITH BACK OF DRYWALL AT RESILIENT CHANNELS. MINIMUM CLEARANCES ARE INDICATED, HOWEVER, CONTRACTOR IS RESPONSIBLE FOR COORDINATION & CONFIRMATION W/ ENGINEER DOCUMENTS.

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA — JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA — C-74002 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — TIMOTHY TODD SEASE — WEST COLUMBIA — 4136 — REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

No	Description	Date

DRAWN BY: SL

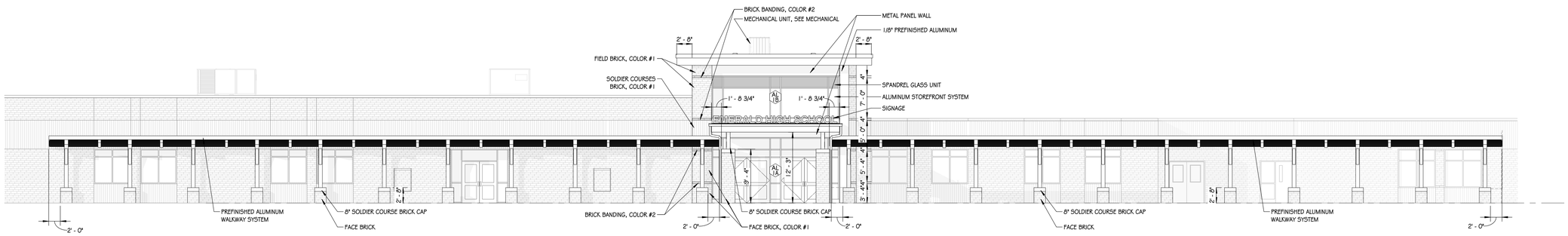
CHECKED BY: TS

COMM NO: 22016

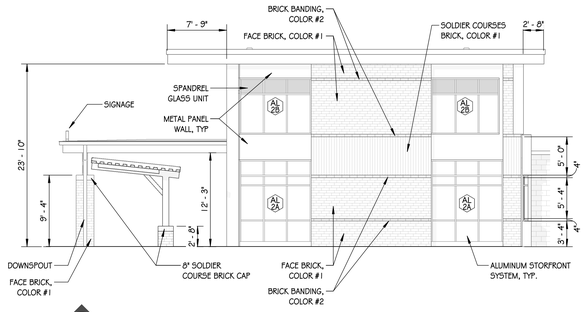
DATE: JANUARY 10, 2023

SHEET TITLE: PARTIAL FLOOR PLAN - BUS DROP-OFF CANOPY

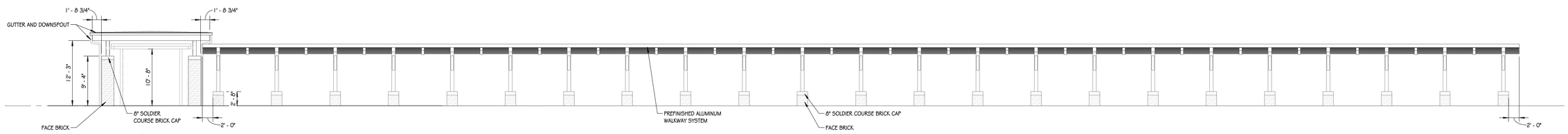
SHEET NO: A302



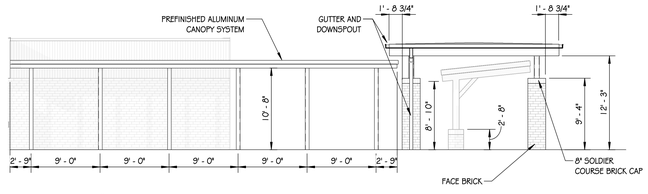
1 A301 | A401 ELEVATION - 1
1/8" = 1'-0"



2 A301 | A401 ELEVATION - 2
1/8" = 1'-0"



3 A302 | A401 ELEVATION - 3
1/8" = 1'-0"



4 A302 | A401 ELEVATION - 4
1/8" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA
JUMPER CARTER SEASE ARCHITECTS, PA
WEST COLUMBIA
C-74002
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
TIMOTHY TODD SEASE
WEST COLUMBIA
4136
REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

No	Description	Date

DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: EXTERIOR ELEVATIONS

SHEET NO: A401

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE TYPE	WALL NORTH	WALL SOUTH	WALL EAST	WALL WEST	COMMENTS
100	LOBBY	PFT	RB	PNT	PNT	PNT	PNT	

FINISH SCHEDULE ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	RB	RUBBER BASE
AWP	ACOUSTICAL WALL PANEL	RFT	RUBBER FLOOR TILE
CONC	CONCRETE	RST	RUBBER STAIR TREAD
CPT	CARPET	RSR	RUBBER STAIR RISER
CT	CERAMIC FLOOR TILE	PWT	PORCELAIN WALL TILE
CTB	CERAMIC TILE BASE	SPT FLR	SPORTS FLOORING
CWT	CERAMIC WALL TILE	SS	STAINLESS STEEL
FRP	FIBERGLASS REINFORCED PANELS	SSM	SOLID SURFACE MATERIAL
PNT	PAINT	ST.STONE	STACKED STONE
PFT	PORCELAIN FLOOR TILE	TZ	TERRAZZO
PSC	POLISHED ¢ STAINED CONCRETE	VCT	VINYL COMPOSITION TILE
PTB	PORCELAIN TILE BASE	VWC	VINYL WALL COVERING
PWT	PORCELAIN WALL TILE	WD FLR	WOOD FLOORING

FINISH SCHEDULE NOTES

REFER TO GENERAL FINISH NOTES FOR ADDITIONAL INFORMATION.

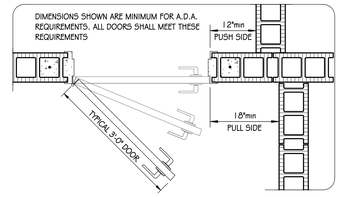
F1. ACCENT PAINT WING WALLS ¢ SOFFIT @ DOUBLE DOOR (COLOR TBD)
F2. PAINT STRUCTURE COLOR AS SELECTED BY ARCHITECT. PAINT MECHANICAL DUCT COLOR AS SELECTED BY ARCHITECT. PAINT EXPOSED STRUCTURAL DECK COLOR AS SELECTED BY ARCHITECT. ALL THREE COMPONENTS LISTED MAY BE DIFFERENT COLORS.
F3. WALLS ¢ EXPOSED STRUCTURE IN STAGE, DIMMER ROOM, AND PERFORMERS CORRIDOR TO BE PAINTED FLAT BLACK, COLOR SW-6990 CAVIAR, BY SHERWIN WILLIAMS.
F4. WALLS, INCLUDING JAMB AND HEAD OPENING AT CAFETERIA SERVING AREA AND COFFEE SHOP AREA ARE TO RECEIVE CERAMIC TILE. SEE INTERIOR ELEVATIONS AND SECTIONS FOR COLOR DISTRIBUTION (FINAL COLORS TO BE DETERMINED BY ARCHITECT).
F5. CWT AND CWB AT WATER COOLER ALCOVE.
F6. CARPET ON STAIR TREADS AND RISERS.
F7. RUBBER STAIR TREADS AND RISERS, RUBBER TILE FLOORING AT INTERMEDIATE LANDING, TERRAZZO FROM CORRIDOR DOOR TO FIRST STAIR TREAD. PAINT ALL EXPOSED STEEL MEMBERS.
F8. OPEN STAIRS TO HAVE TERRAZZO TREADS AND RISERS.
F9. OPEN STAIRS AT AUXILIARY GYM TO HAVE RUBBER TREADS AND RISERS.
F10. PT-2 SHALL BE INSTALLED IN FLOOR OF SHOWER AREA. PT-1 SHALL BE INSTALLED ON REMAINDER OF FLOOR IN THIS SPACE.

GENERAL FINISH NOTES APPLY TO ALL AREAS OR THOSE GENERAL FINISH NOTES: NOT SPECIFICALLY NOTED ON SCHEDULE.

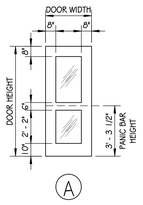
G1. SEE REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS.
G2. ALL HOLLOW METAL FRAMES TO BE PAINTED. COLOR TO BE SELECTED BY ARCHITECT.
G3. ALL TOILETS, JANITOR ROOMS, LOCKER ROOMS, CORRIDORS AND CAFETERIA TO HAVE EPOXY PAINT AS ELL AS KITCHEN AND DISH WASH AREA.
G4. ALL GWB WALLS SHALL BE PAINTED WITH EGGSHELL FINISH LATEX.
G5. RB BASE (USE 120 FT. ROLLS) IS TO BE SCORED AND WRAPPED AROUND OUTSIDE CORNERS. (DO NOT SCORE THROUGH BASE MATERIAL) MINIMUM LENGTH ON EITHER SIDE OF CORNER TO BE 24" LONG FOR POSITIVE ATTACHMENT TO WALL. (NO CUT TOES ON OUTSIDE CORNERS)
G6. FLOOR FINISH PATTERN PLANS WITH PATTERN AND COLOR DISTRIBUTION NOTED ON "I" SHEETS. FINAL COLORS TO BE SELECTED DURING SHOP DRAWING SUBMITTAL.
G7. CPT INDICATED ON SCHEDULE IS TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR, SEE SPECS W/ PATTERNS/BORDERS AS SHOWN ON "I" SHEETS. THE GENERAL CONTRACTOR IS TO PROVIDE AND INSTALL ALL FINISHES COMPLETE INCLUDING RB BASE, TRANSITION STRIPS, ETC. AT CPT AREAS AND ALL OTHER AREAS INCLUDED IN SCHEDULE. CONTRACTOR IS TO PROTECT CPT DURING CONSTRUCTION.
G8. EDGES OF ALL FLOOR MATERIAL CHANGES, IE: CPT TO VCT, TO HAVE RB TRANSITION STRIPS UNLESS NOTED OTHERWISE OR APPROVED BY THE ARCHITECT. THIS INCLUDES DOOR THRESHOLDS WHERE FLOOR FINISHES CHANGE AND AT FINISH MATERIAL CHANGES IN OPEN AREAS. CPT TO HARD TILE SHOULD HAVE THIN LINE METAL TRANSITION STRIPS BY SCHLUTER AS DETERMINED AND SELECTED BY ARCHITECT.
G9. ALL ADMINISTRATION AREAS WITH 1 OR MORE CMU WALLS SHALL BE FURRED OUT w/ 7/8" FURRING CHANNELS AND 5/8" GWB.
G10. ACT-1 = STANDARD ACOUSTICAL TILE
ACT-2 = VINYL FACED OR MOISTURE RESISTANT TILE
ACT-3 = SOUND SENSITIVE ACOUSTICAL TILE
SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
G11. REFER TO DISPLAY CASE ELEVATIONS AND SECTIONS. FINISHES AND COLORS TO BE SELECTED AND DISTRIBUTED AS DETERMINED BY ARCHITECT.
G12. GWB BULKHEADS/SOFFITS TO BE PAINTED (SIDES ¢ BOTTOM) ACCENT COLORS AS SELECTED BY ARCHITECT.
G13. PAINTED HANDRAILS TO BE COLOR: (COLOR TBD).
G14. PORCELAIN TILE IS TO HAVE EPOXY GROUT. COLOR TO BE SELECTED BY ARCHITECT.
G15. REFER TO INTERIOR ELEVATION DRAWINGS ON "A600" SERIES DRAWINGS ¢ "A400" SERIES FOR SIZE, QUANTITY ¢ LOCATION OF ACOUSTICAL WALL PANELS.

DOOR SCHEDULE

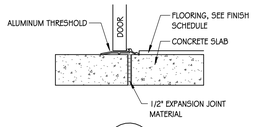
DOOR #	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR FINISH	GLASS SIZE	GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB	SILL	RATING	REMARKS
100.1	A	PR 3' - 6"	7' - 10"	ALUM	PREFINISHED	SEE ELEV	SECURITY	AL 1A	ALUM	PREFINISHED	1/A701	2/A705 ¢ 3/A705	S-1		
100.2	A	PR 3' - 6"	7' - 10"	ALUM	PREFINISHED	SEE ELEV	SECURITY	AL 1A	ALUM	PREFINISHED	1/A701	2/A705 ¢ 3/A705	S-1		
101.1	EXG	EXG	EXG"	EXG	EXG	--	SECURITY	--	EXG	EXG	1/A702	--	1/A702		SECURE ACCESS, AD400 LOCKS TO BE PROVIDED BY OWNER
101.2	EXG	EXG	EXG"	EXG	EXG	--	SECURITY	--	EXG	EXG	1/A702	--	1/A702		SECURE ACCESS, AD400 LOCKS TO BE PROVIDED BY OWNER



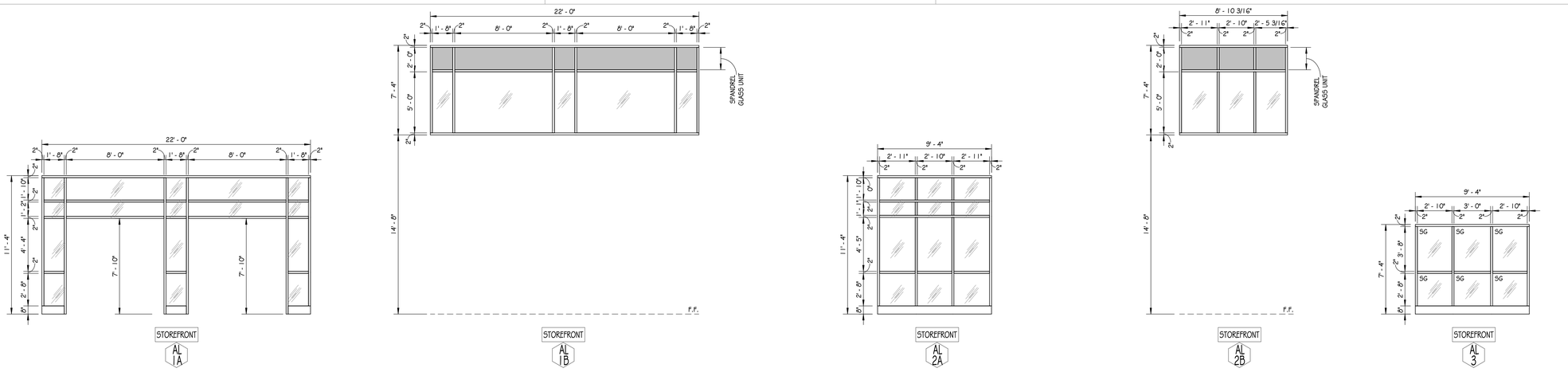
TYP. DOOR CLEARANCE
3/4" = 1'-0"



DOOR TYPES
1/4" = 1'-0"



SILL DETAILS
1 1/2" = 1'-0"



ALUMINUM FRAME ELEVATIONS

SG = SCHOOL GUARD GLAZING AS SPECIFIED. (INCLUDES DOORS)

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

JOHN T. FOOD SEASE WEST COLUMBIA 4136 REGISTERED ARCHITECT

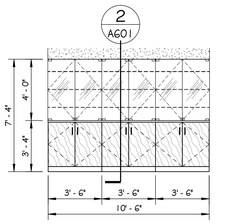
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

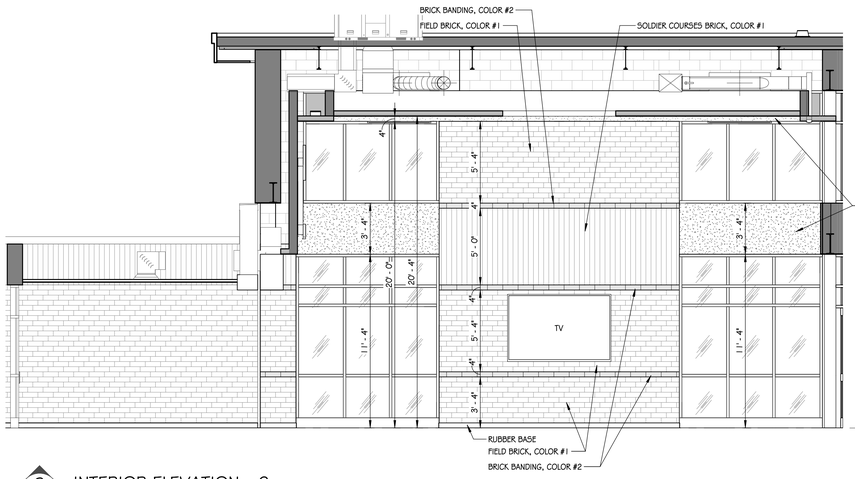
No	Description	Date

DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: FINISH & DOOR SCHEDULES, DOOR TYPES, FRAME TYPES, AND WINDOW TYPES AND DETAILS
SHEET NO: A501

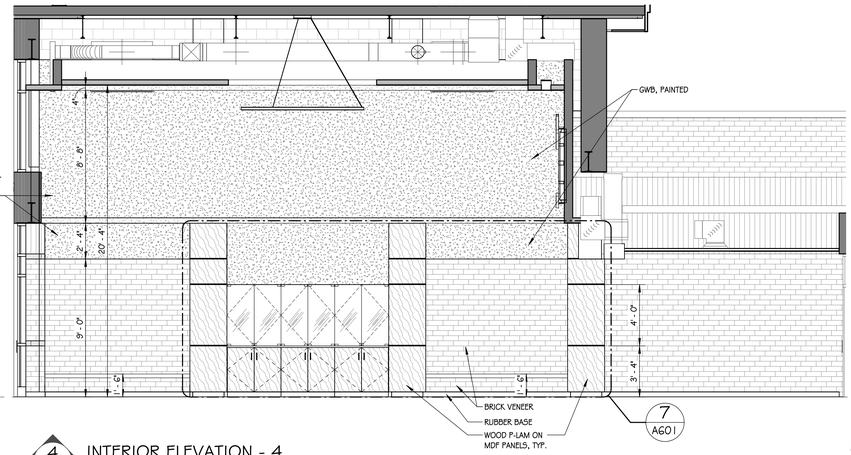
1/10/2023 4:53:13 PM BIM 360://22016 - GSD#50 - Emerald High Add & Renov/22016 - GSD#50 - Emerald High Add & Renov - v20.rvt



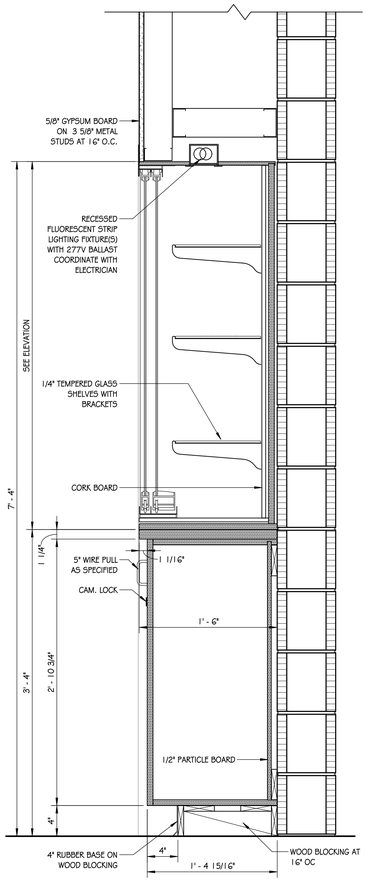
1 A301|A601 CASEWORK - 100
1/4" = 1'-0"



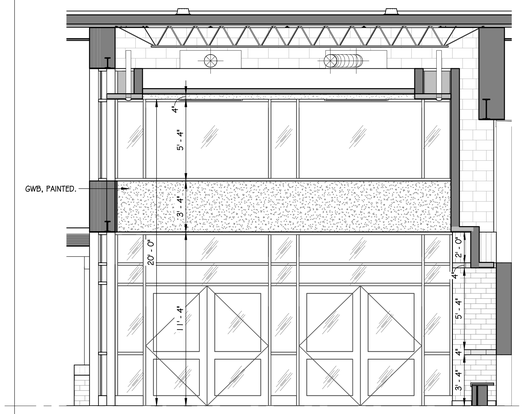
3 A301|A601 INTERIOR ELEVATION - 2
1/4" = 1'-0"



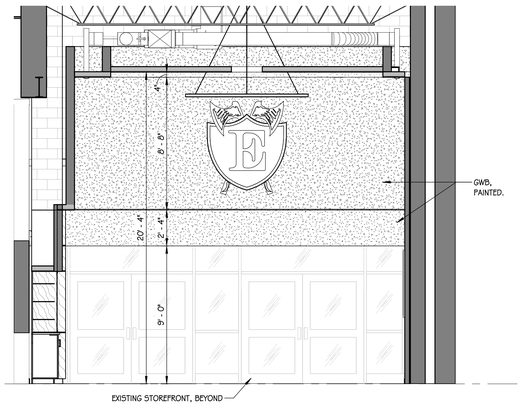
4 A301|A601 INTERIOR ELEVATION - 4
1/4" = 1'-0"



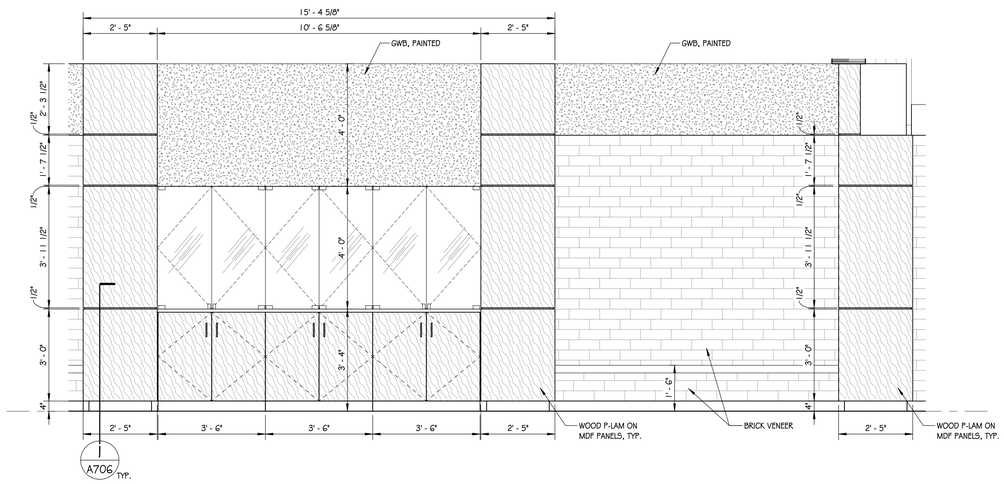
2 A601|A601 CABINET SECTION
1 1/2" = 1'-0"



5 A301|A601 INTERIOR ELEVATION - 3
1/4" = 1'-0"



6 A301|A601 INTERIOR ELEVATION - 1
1/4" = 1'-0"



7 A601|A601 P-LAM ELEVATION
1/2" = 1'-0"

Jumper Carter Sease ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

TIMOTHY FODD SEASE WEST COLUMBIA 4136 REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

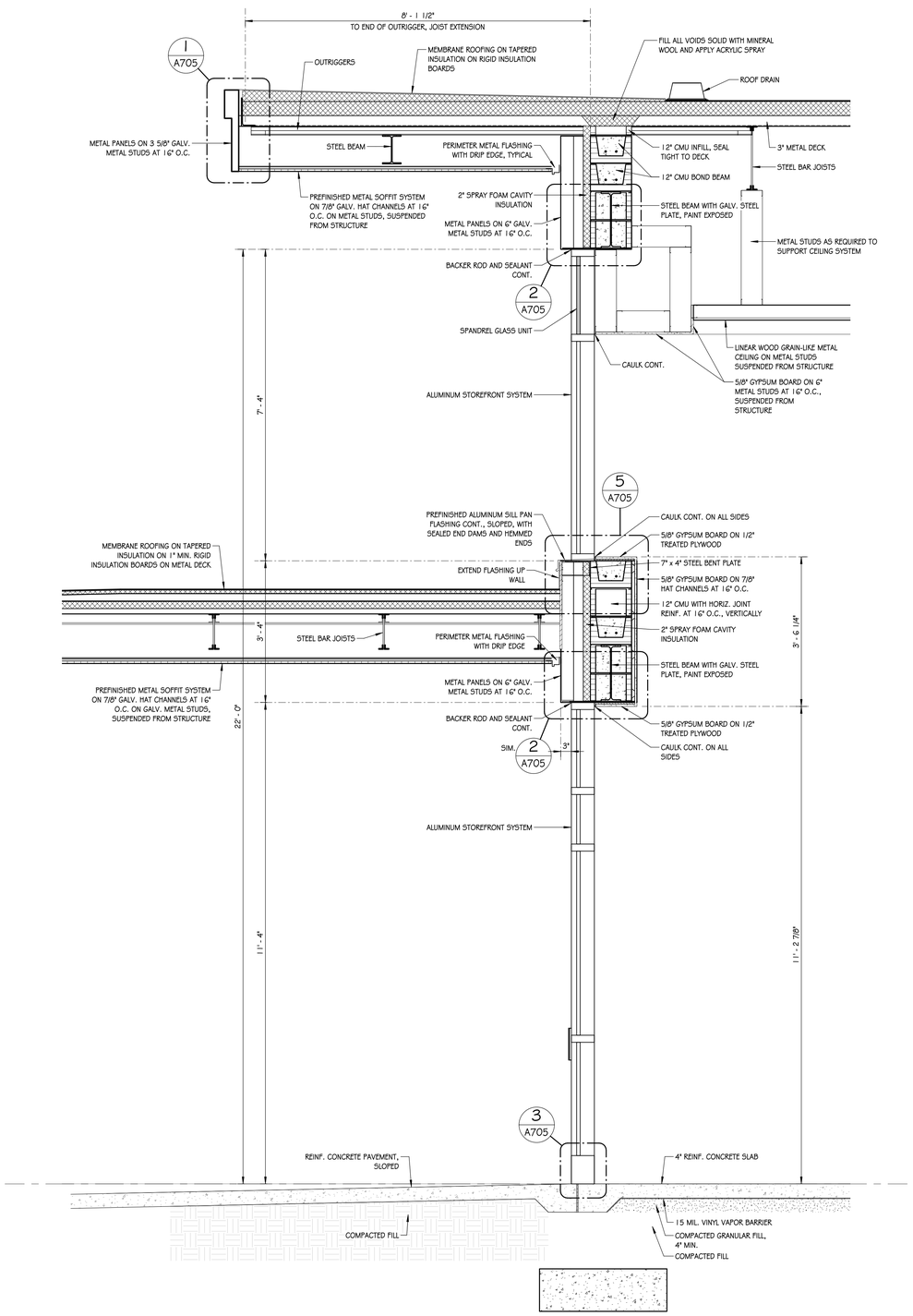
CD

No	Description	Date

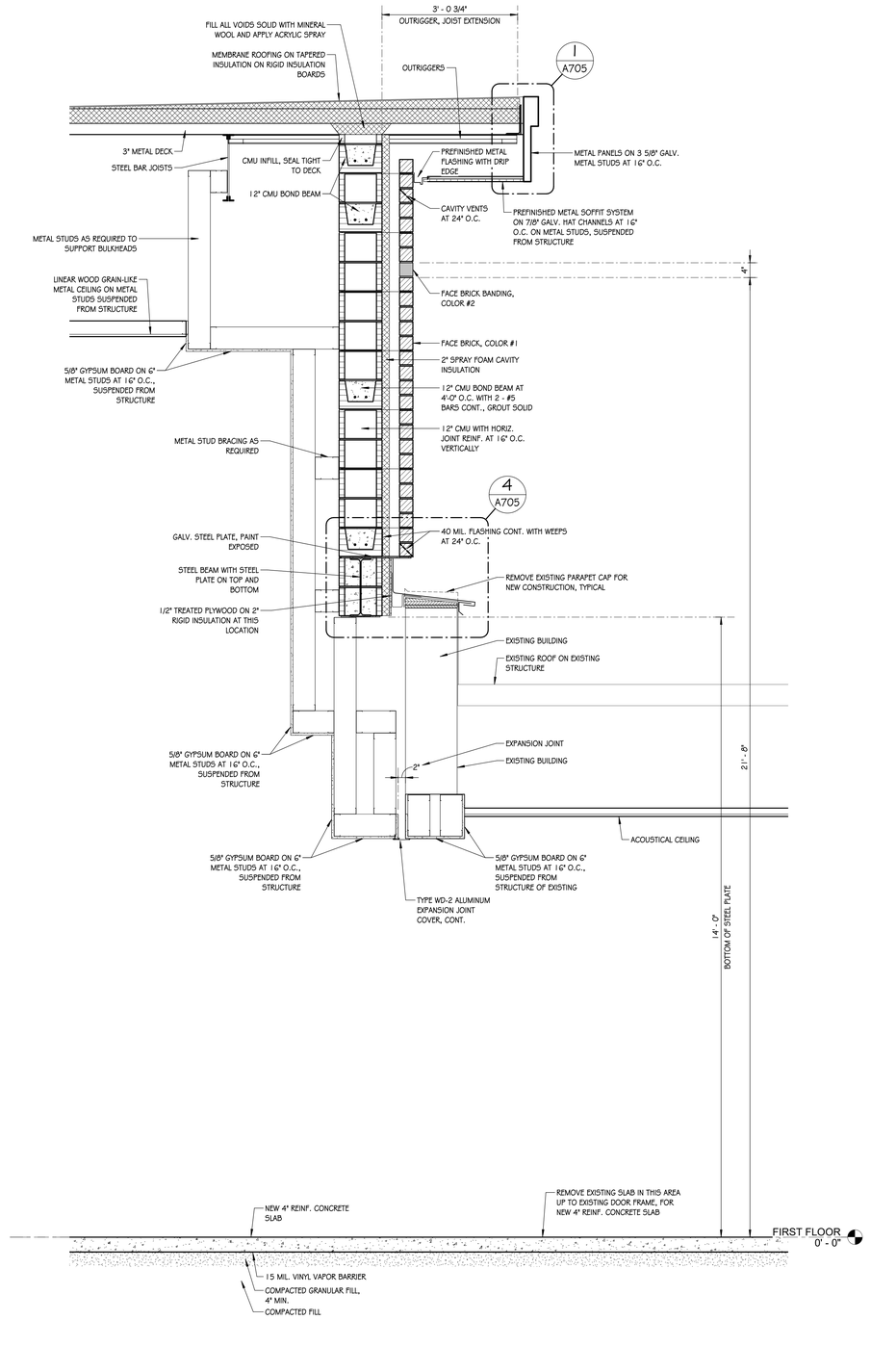
DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023

SHEET TITLE: CASEWORK ELEVATIONS & SECTIONS, AND INTERIOR ELEVATIONS

SHEET NO: A601



1 A301 A701 WALL SECTION
3/4" = 1'-0"



2 A301 A701 WALL SECTION
3/4" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

TODD SEASE WEST COLUMBIA 4136 REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

No	Description	Date

DRAWN BY: CM

CHECKED BY:

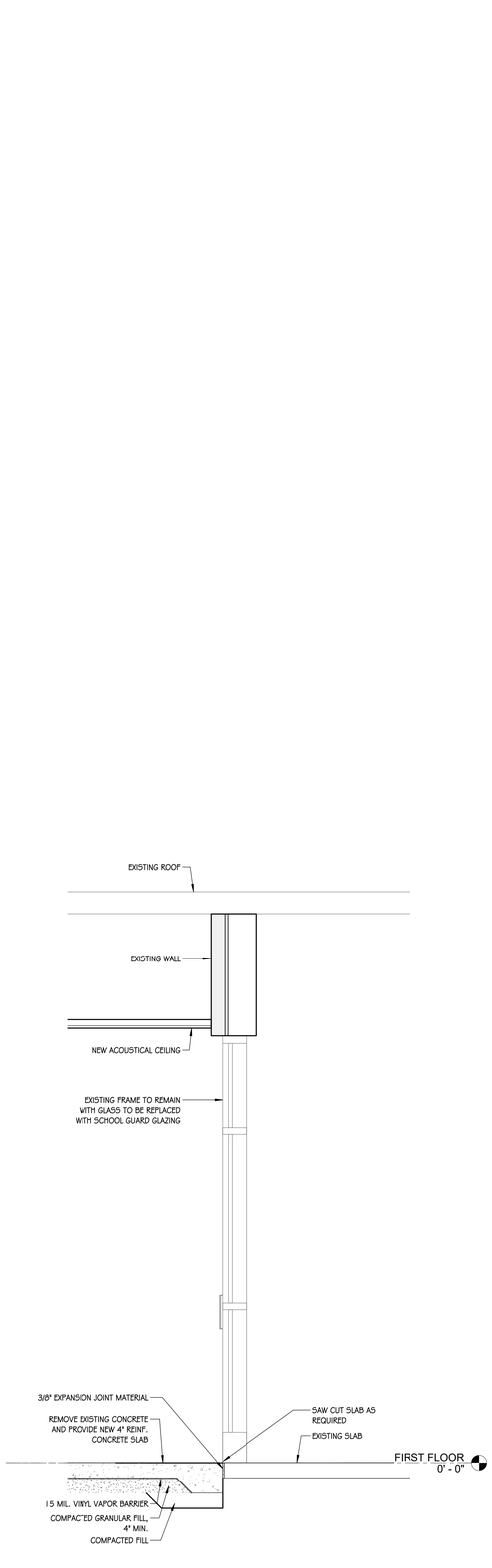
COMM NO: 22016

DATE: JANUARY 10, 2023

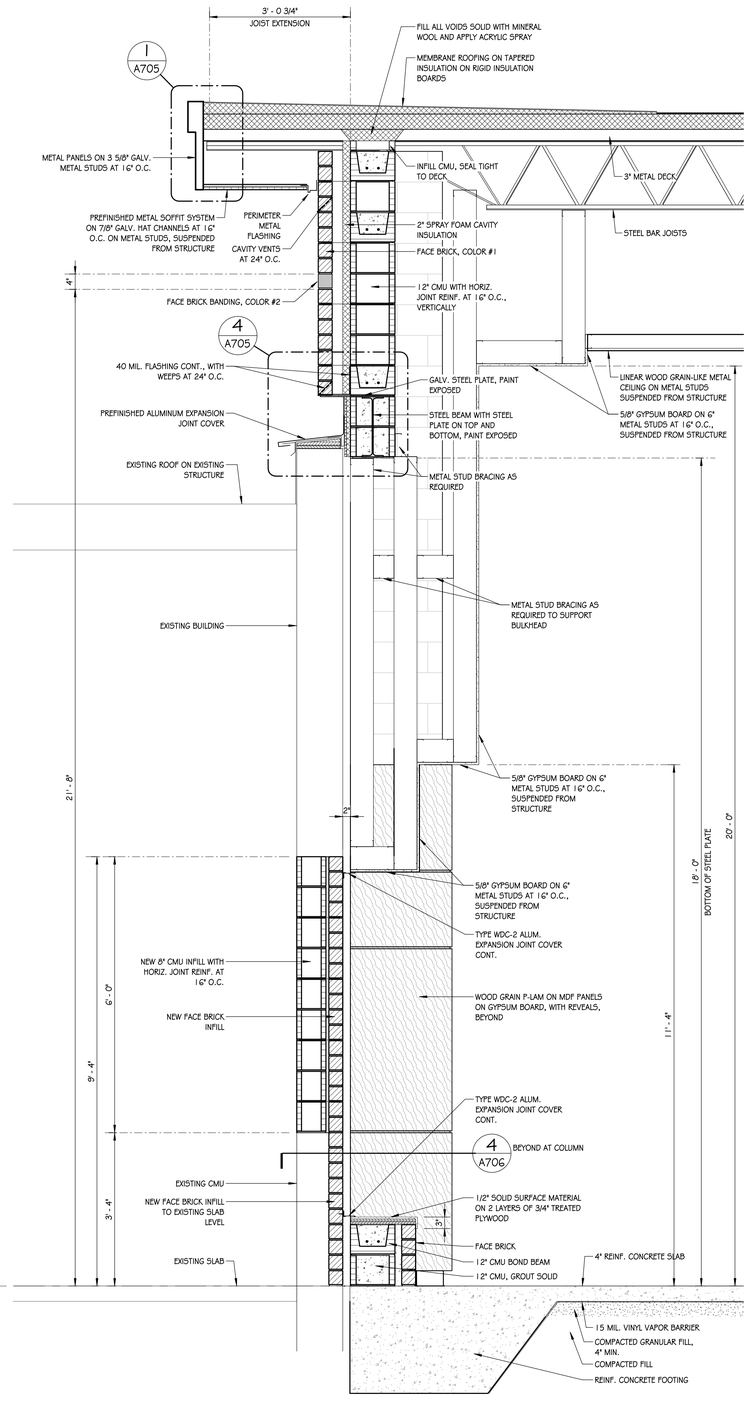
SHEET TITLE: WALL SECTIONS

SHEET NO: A701

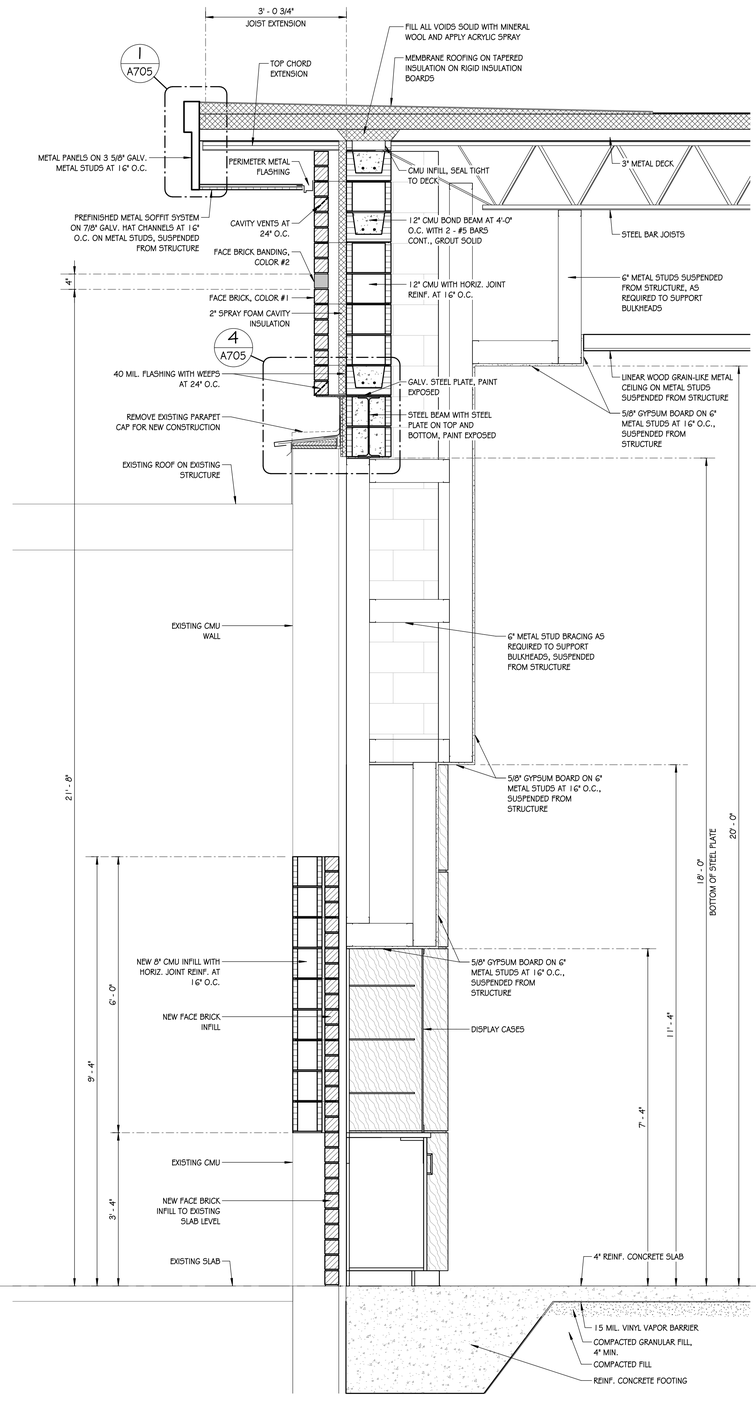
1/10/2023 4:22:52 PM
BIM 360://22016 - GSD#50 - Emerald High Add & Renov//22016 - GSD#50 - Emerald High Add & Renov - v20.rvt



1 WALL SECTION
A301 A702 3/4" = 1'-0"



2 WALL SECTION
A301 A702 3/4" = 1'-0"



3 WALL SECTION
A301 A702 3/4" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA
JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA
C-74002
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
TIMOTHY FOOD SEASE
WEST COLUMBIA
4136
REGISTERED ARCHITECT

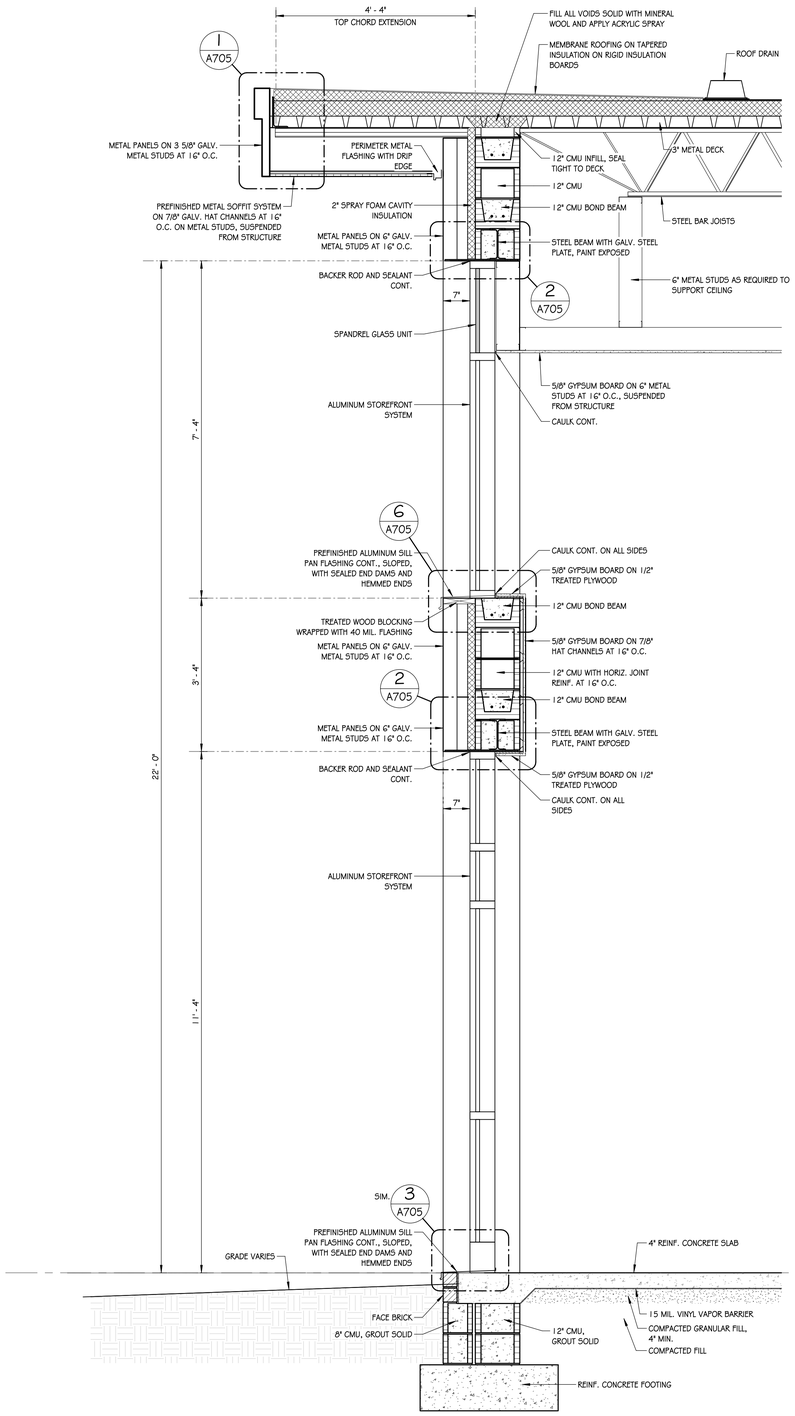
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

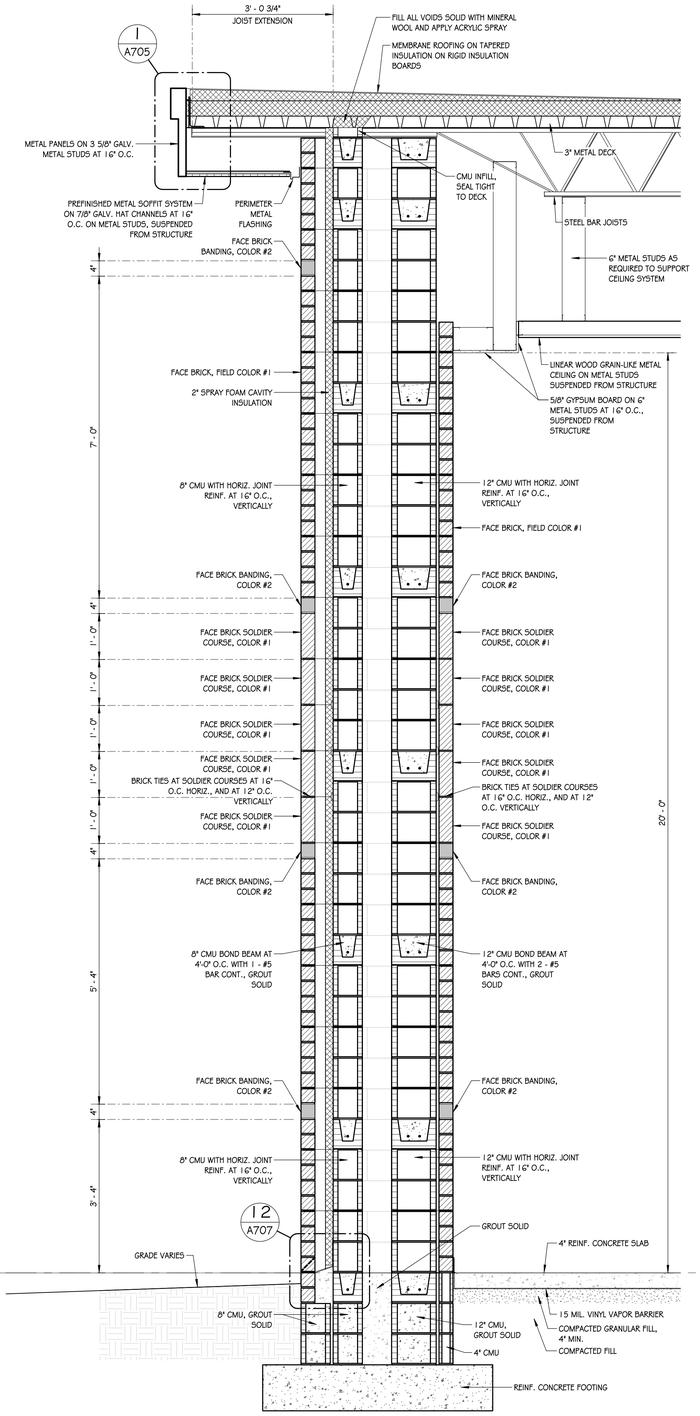
No	Description	Date

DRAWN BY: CM
CHECKED BY: Checker
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: WALL SECTIONS

SHEET NO: A702



1 A301 | A703 WALL SECTION
3/4" = 1'-0"



2 A301 | A703 WALL SECTION
3/4" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

ANTHONY FOOD SEASE WEST COLUMBIA 4136 REGISTERED ARCHITECT

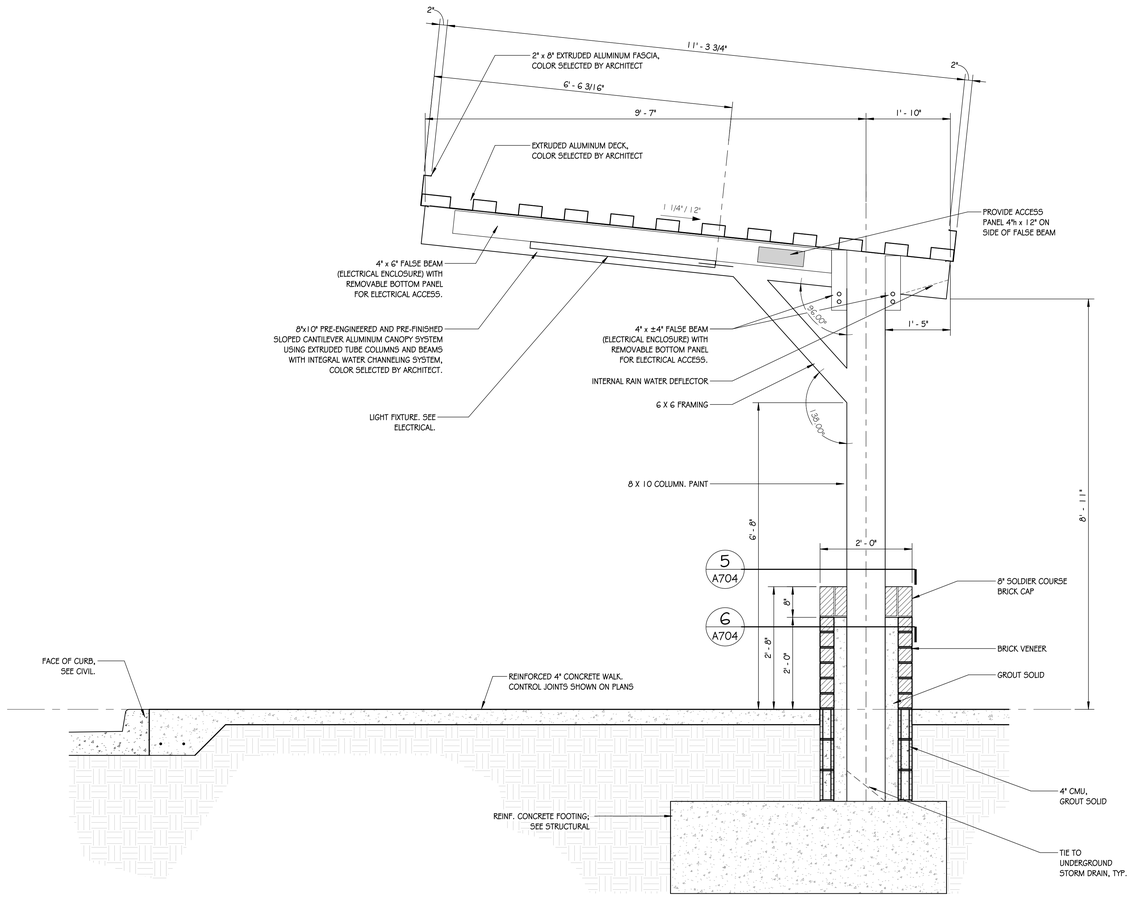
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

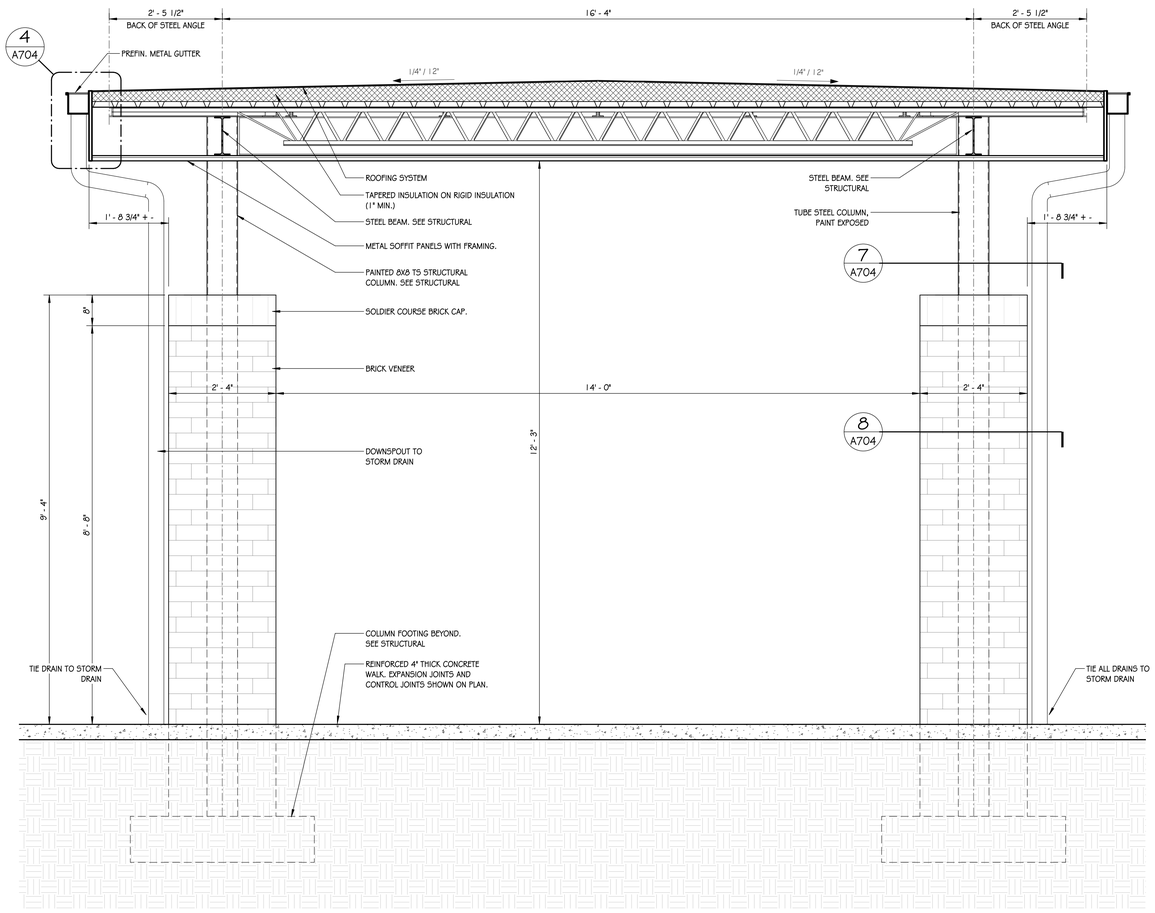
No	Description	Date

DRAWN BY: CM
CHECKED BY: .
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: WALL SECTIONS

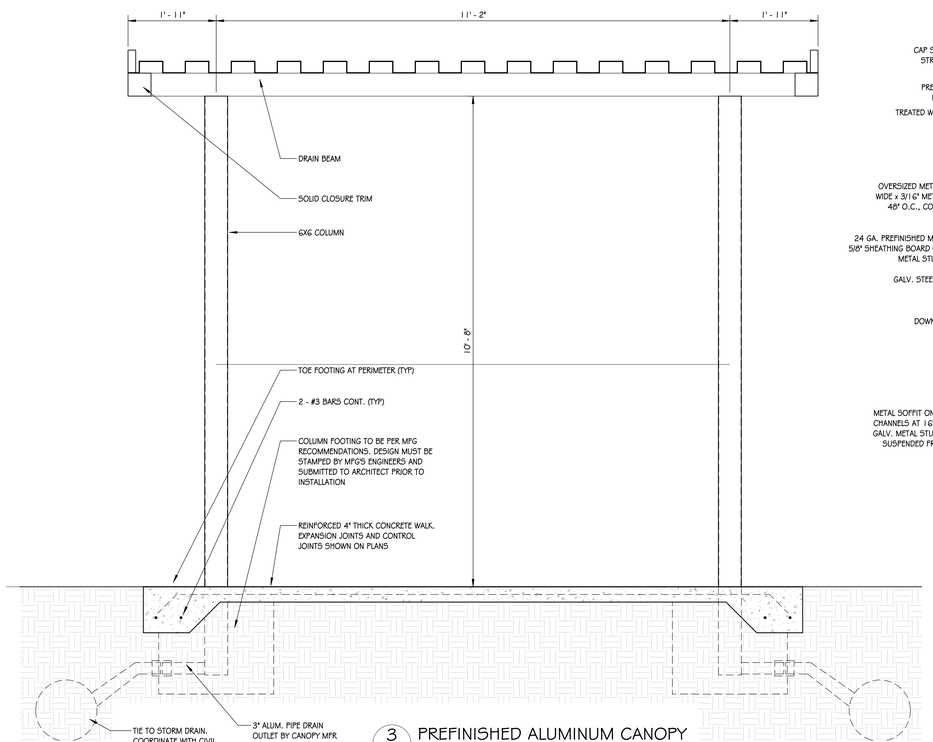
SHEET NO: A703



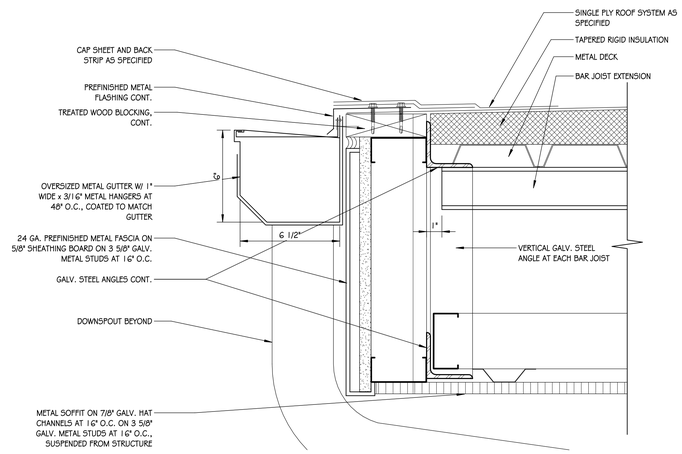
1 SECTION - CANTILEVERED COVERED WALK
A301 | A704 3/4" = 1'-0"



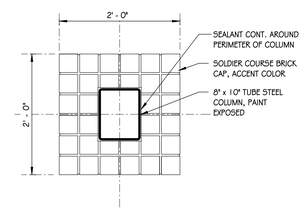
2 CANOPY SECTION
A301 | A704 3/4" = 1'-0"



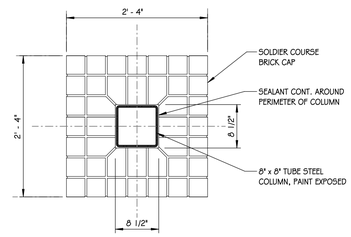
3 PREFINISHED ALUMINUM CANOPY
A302 | A704 3/4" = 1'-0"



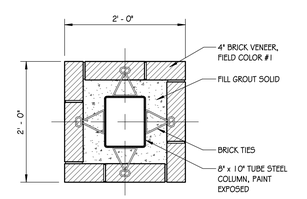
4 DETAIL - CANOPY DOWNSPOUT
A704/A704 3" = 1'-0"



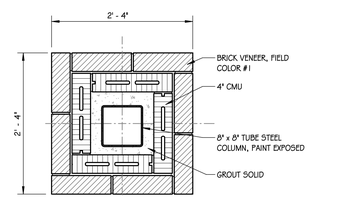
5 DETAIL - 2' - 0" COLUMN CAP
A301 | A704 1" = 1'-0"



7 DETAIL - 2' - 4" COLUMN CAP
A301 | A704 1" = 1'-0"



6 DETAIL - 2' - 0" COLUMN
A301 | A704 1" = 1'-0"



8 DETAIL - 2' - 4" COLUMN
A301 | A704 1" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

JEREMY FOOD SEASE WEST COLUMBIA 4136 REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

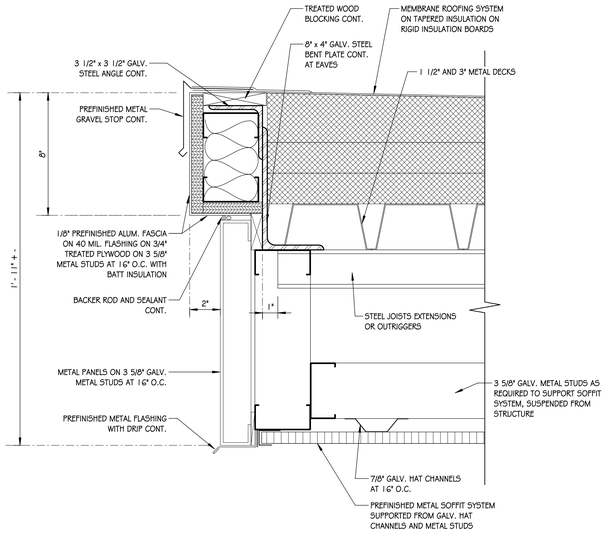
CD

No	Description	Date

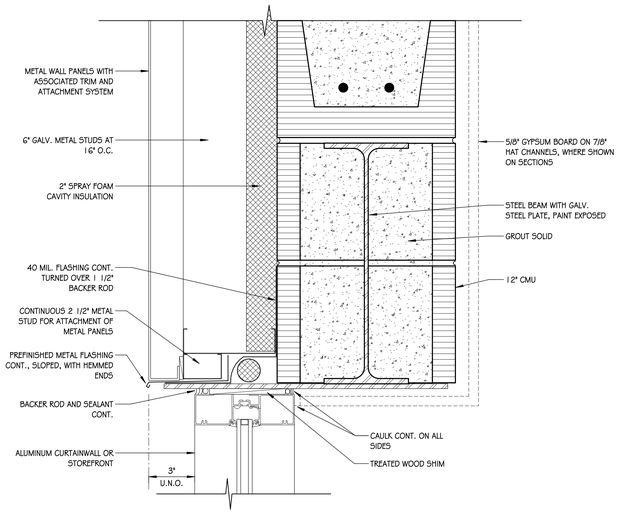
DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: CANOPY DETAILS

SHEET NO: A704

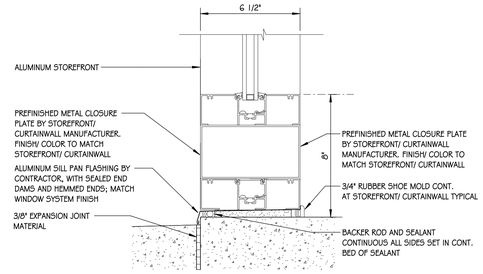
BIM 360://22016 - GSD#50 - Emerald High Add & Renov/22016 - GSD#50 - Emerald High Add & Renov - v20.rvt
1/10/2023 4:23:05 PM



1 EAVE DETAIL
A701|A705 3" = 1'-0"



2 HEAD DETAIL AT METAL PANELS
A701|A705 3" = 1'-0"



3 STOREFRONT SILL AT SLAB
A701|A705 3" = 1'-0"

4 EXPANSION JOINT DETAIL
A701|A705 3" = 1'-0"

5 SILL DETAIL AT METAL PANELS
A701|A705 3" = 1'-0"

6 SILL DETAIL AT METAL PANELS
A703|A705 3" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA
JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA
C-74002
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
JOHN FOOD SEASE
WEST COLUMBIA
4136
REGISTERED ARCHITECT

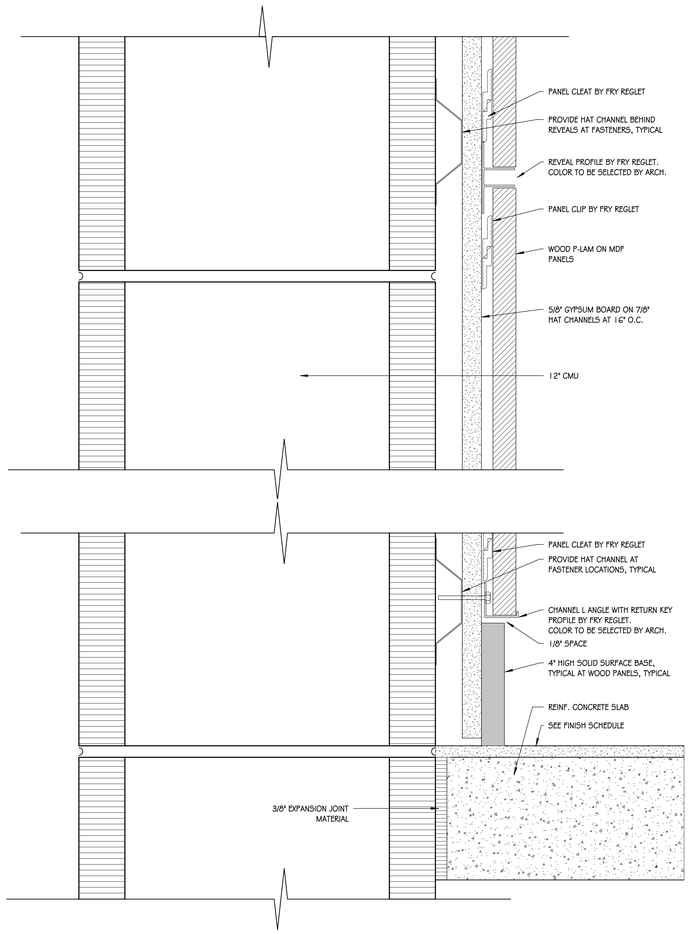
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

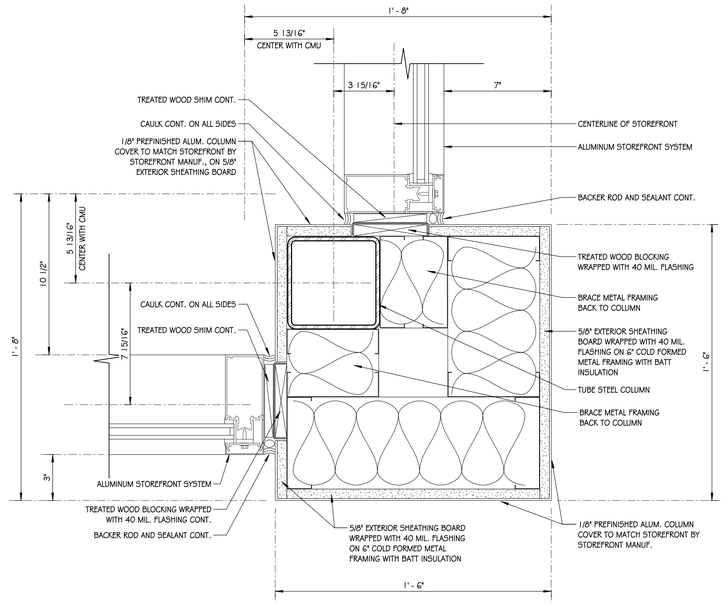
No	Description	Date

DRAWN BY: CM
CHECKED BY: .
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: ENLARGED DETAILS

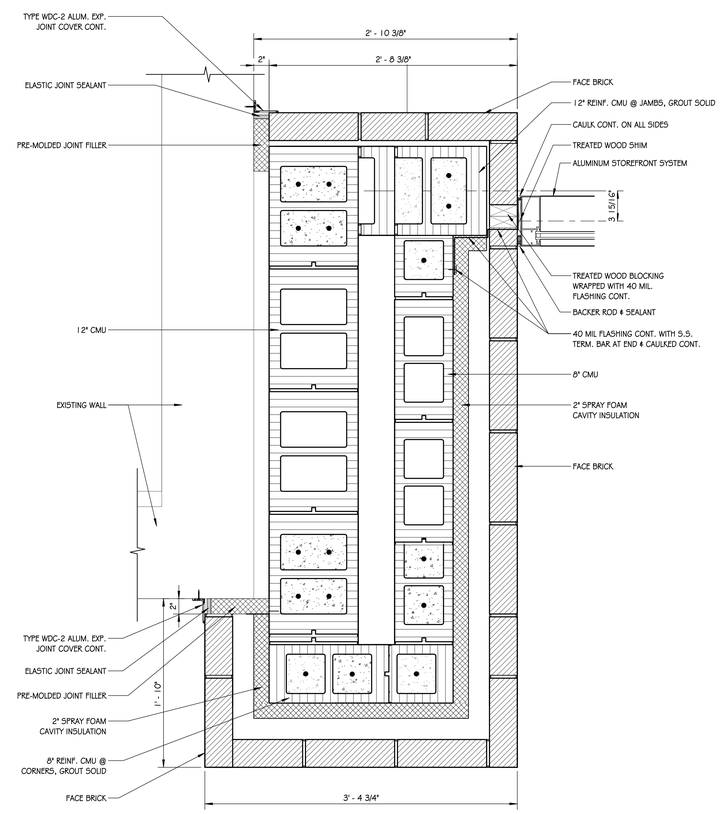
SHEET NO: A705



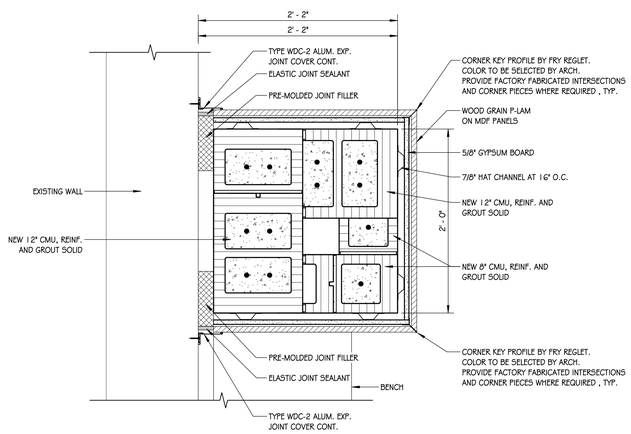
1 A601 | A706 HORIZONTAL REVEAL IN P-LAM PANELS
6" = 1'-0"



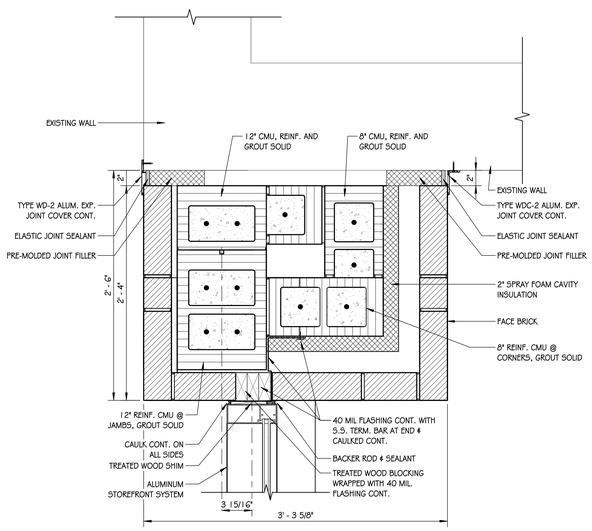
2 A301 | A706 DETAIL AT COLUMN AT STOREFRONT
3" = 1'-0"



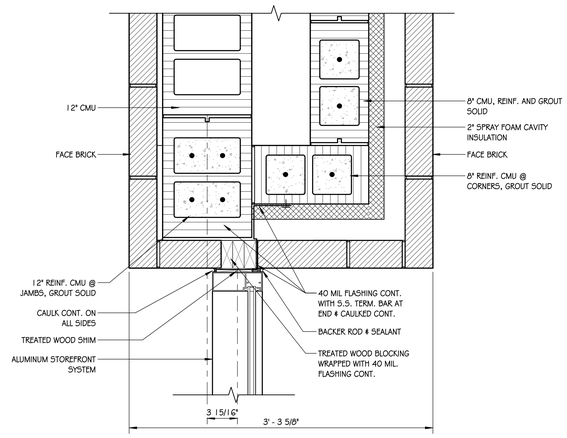
3 A301 | A706 PLAN SECTION
1 1/2" = 1'-0"



4 A301 | A706 PLAN SECTION
1 1/2" = 1'-0"



5 A301 | A706 PLAN SECTION
1 1/2" = 1'-0"



6 A301 | A706 PLAN SECTION
1 1/2" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

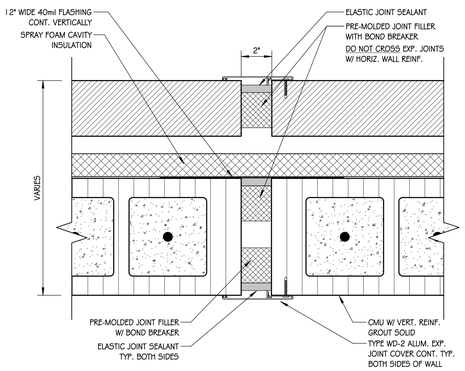
TODD SEASE 4136 REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

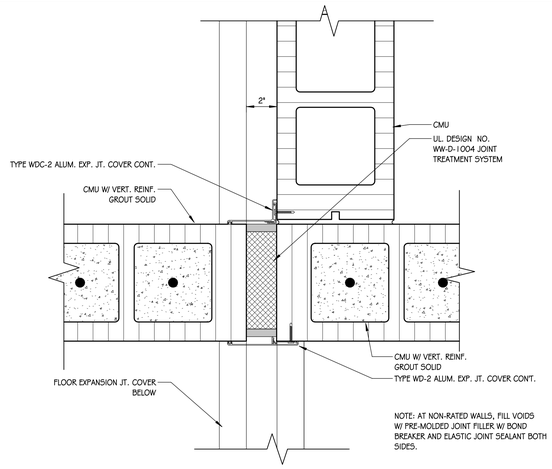
CD

No	Description	Date

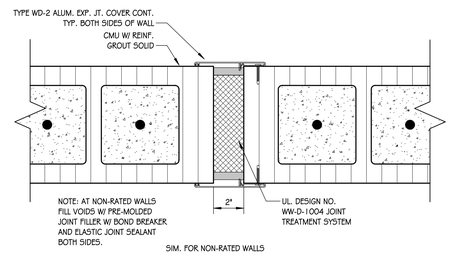
DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: ENLARGED DETAIL AND PLAN SECTIONS
SHEET NO: A706



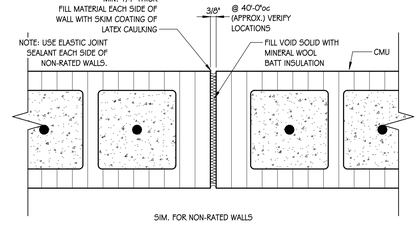
1 A707 TYP. EXPANSION JOINT EXTERIOR WALLS
3" = 1'-0"



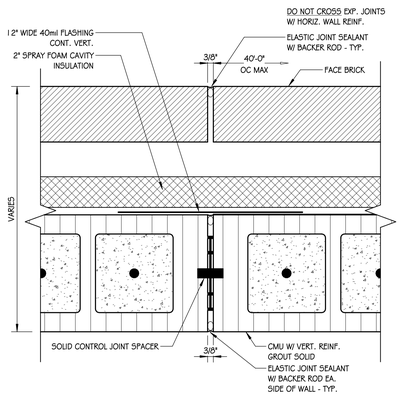
2 A707 TYP. EXPANSION AT RATED WALLS
3" = 1'-0"



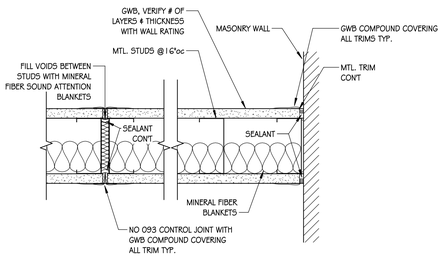
3 A707 TYP. EXPANSION JOINT AT RATED WALLS
3" = 1'-0"



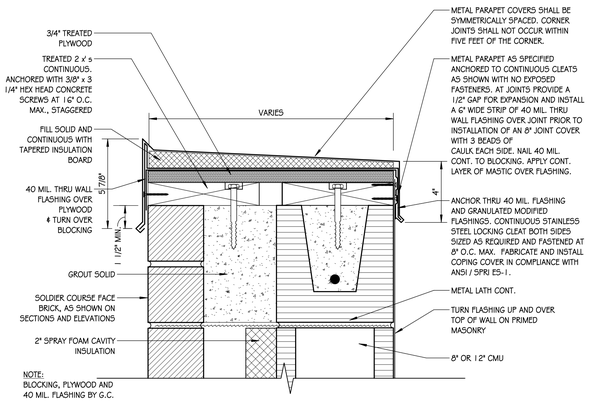
4 A707 TYP. CONTROL JOINT IN RATED WALL PER UL DESIGN NO. WW-D-1004
3" = 1'-0"



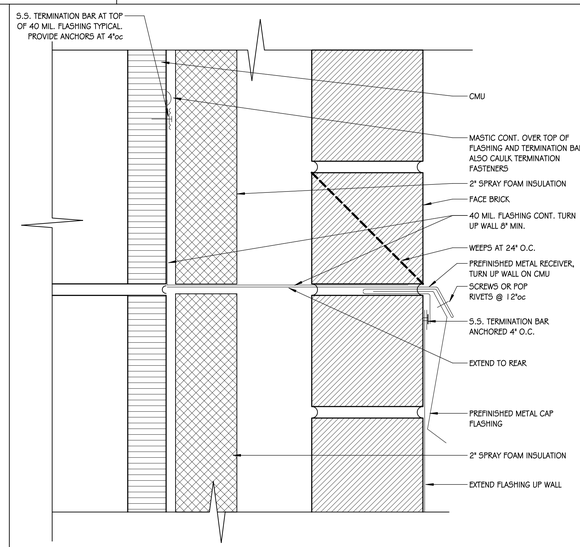
5 A707 TYP. CONTROL JOINT EXTERIOR WALLS
3" = 1'-0"



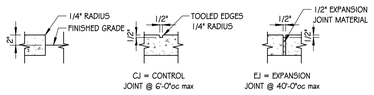
6 A707 TYP. DRY WALL CONTROL JOINT
3" = 1'-0"



7 A707 TYP. PARAPET CAP SECTION
3" = 1'-0"

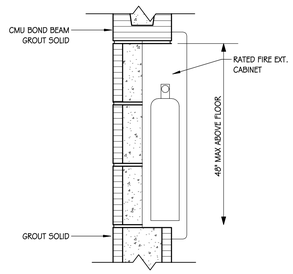


8 A707 TYP. COUNTER FLASHING DETAIL
6" = 1'-0"

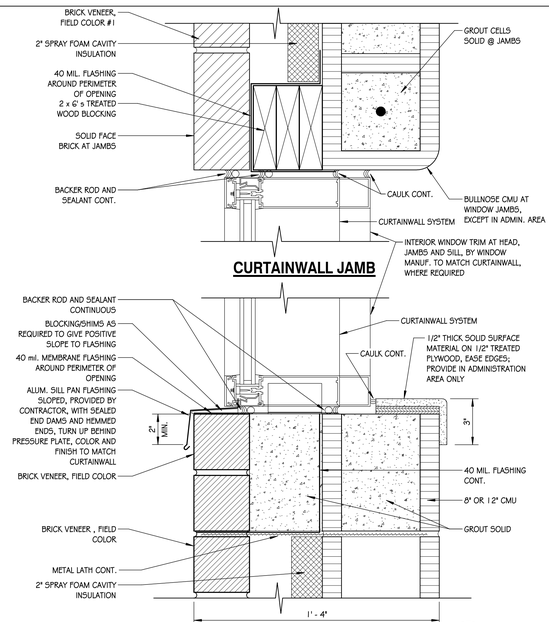


NOTE: ALL EXTERIOR SIDEWALKS AND DRIVES SHALL HAVE FIBER REINFORCING

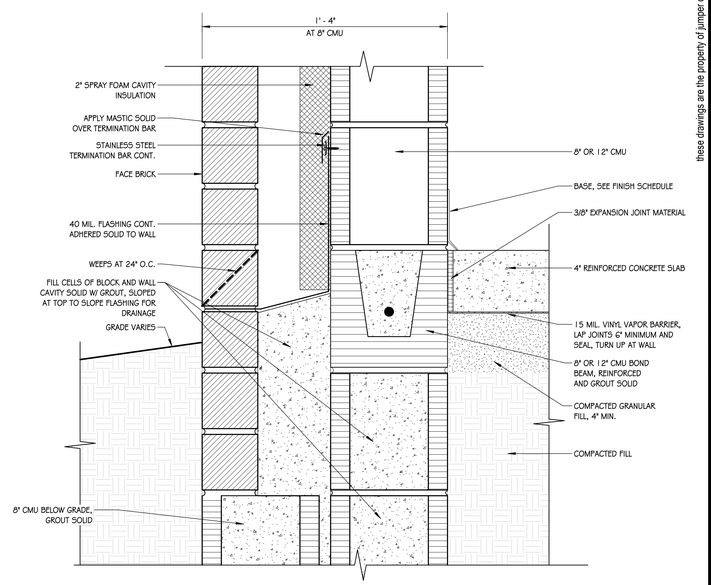
9 A707 SIDEWALK DETAILS
1" = 1'-0"



10 A707 TYP. FIRE EXT. CABINET DETAIL
1 1/2" = 1'-0"



11 A707 TYP WINDOW FLASHING
3" = 1'-0"



12 A703/A707 TERMINATION BAR DETAIL
3" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

TIMOTHY FOOD SEASE WEST COLUMBIA 4136 REGISTERED ARCHITECT

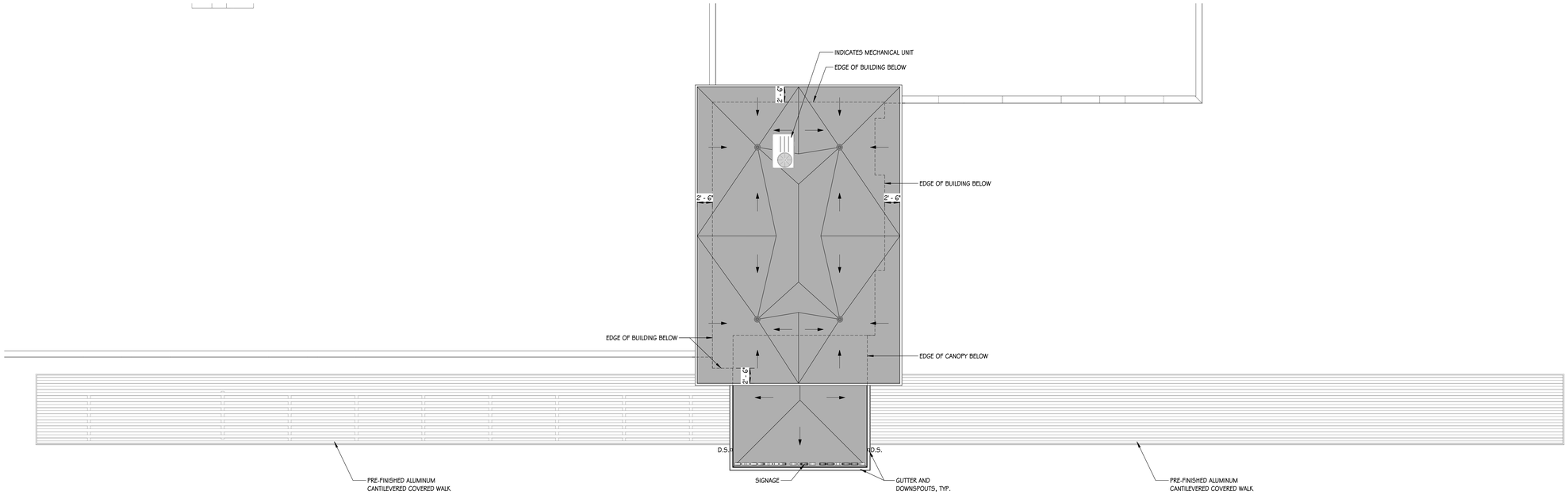
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

No	Description	Date

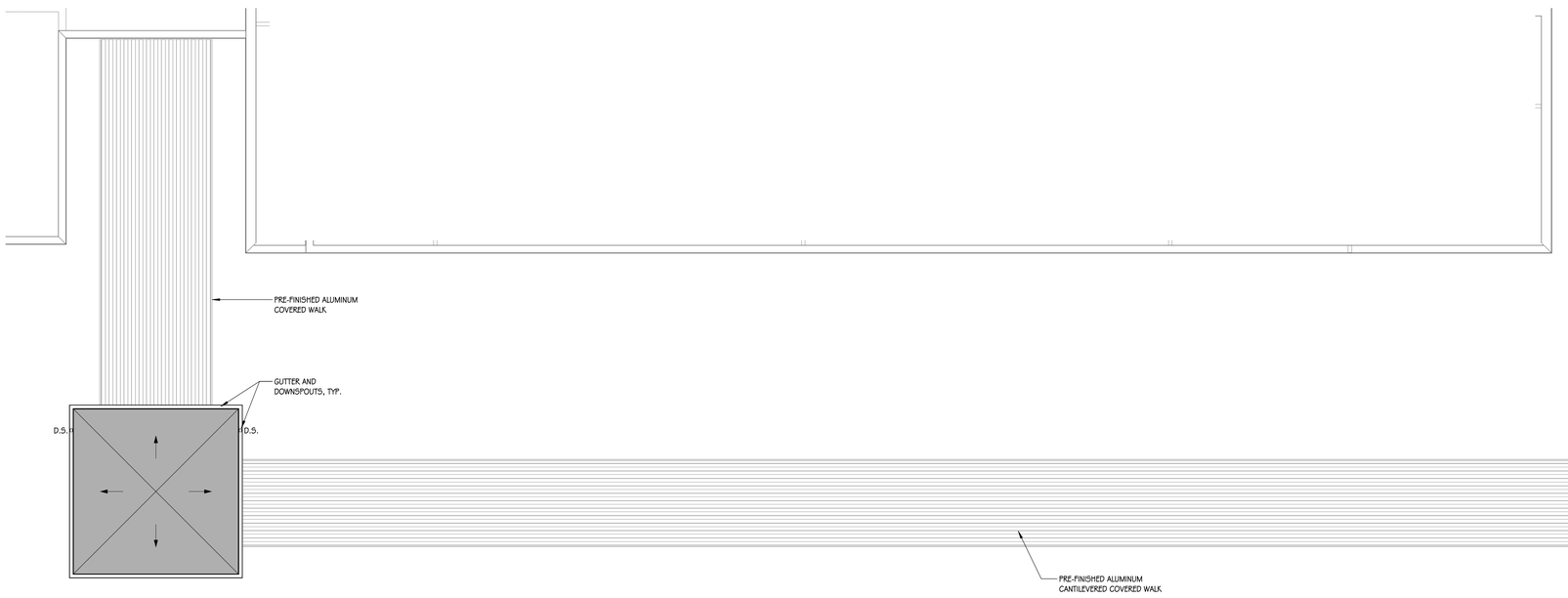
DRAWN BY:
CHECKED BY:
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: MISC DETAILS
SHEET NO: A707

BIM 360://22016 - GSD#50 - Emerald High Add & Renov/22016 - GSD#50 - Emerald High Add & Renov - v20.rvt
1/10/2023 4:23:17 PM



1 A401 | A801 ROOF PLAN - FRONT LOBBY AND CANOPY

1/8" = 1'-0"



2 A401 | A801 ROOF PLAN - BUS DROP-OFF CANOPY

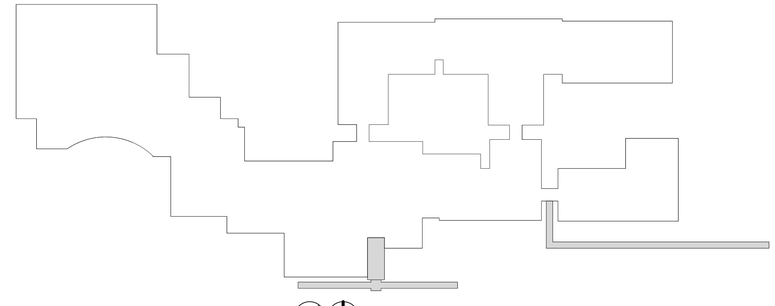
1/8" = 1'-0"

ROOF LEGEND

- MEMBRANE ROOF ON TAPERED INSULATION AS NEEDED TO OBTAIN 1/4" PER FOOT MIN. SLOPE TO DRAINS.
- ROOF DRAIN - PROVIDE A "SUMP OF TAPERED INSULATION FROM 24" OUT FROM DRAIN, SLOPING 1/2" PER FOOT WITH POSITIVE SLOPE TO DRAIN. SUMP SHALL NOT HOLD WATER. ARROWS INDICATE SLOPE. SEE TYPICAL DETAIL - SHEET A802.
- INDICATES DIRECTION OF SLOPE AT 1/4" PER FOOT.
- MECHANICAL UNIT - SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION.
- D.S. 4"x6" PRE-FINISHED METAL DOWNSPOUT FROM GUTTER CONNECTED TO STORM DRAINAGE WITH BOOT - SEE PLUMBING.

GENERAL NOTES

1. SEE TYPICAL ROOF DETAILS ON SHEET A802.
2. AT ALL MECHANICAL UNITS INSTALL CRICKET OF TAPER INSULATION ON THE UP-HILL SIDE TO DISPERSE WATER AROUND THE UNIT.
3. ROOF TOP EQUIPMENT EXPOSED TO VIEW SHALL BE PAINTED TO MATCH METAL PARAPET COLOR. INCLUDES STAND PIPES.



KEY PLAN

TRUE PROJECT NORTH NORTH

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA
JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA
C-74002
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
TIMOTHY JOHN FODD SEASE
WEST COLUMBIA
4136
REGISTERED ARCHITECT

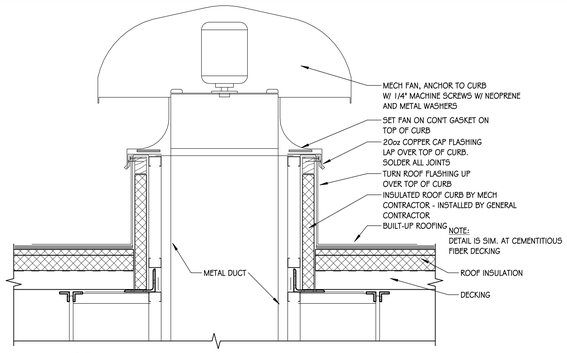
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

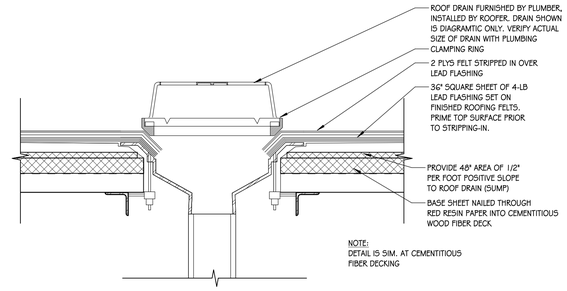
No	Description	Date

DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: ROOF PLANS

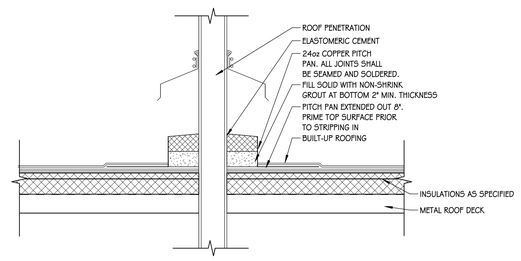
SHEET NO: A801



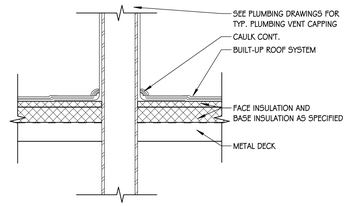
1 TYPICAL MECHANICAL VENT FAN DETAIL
A802 1 1/2" = 1'-0"



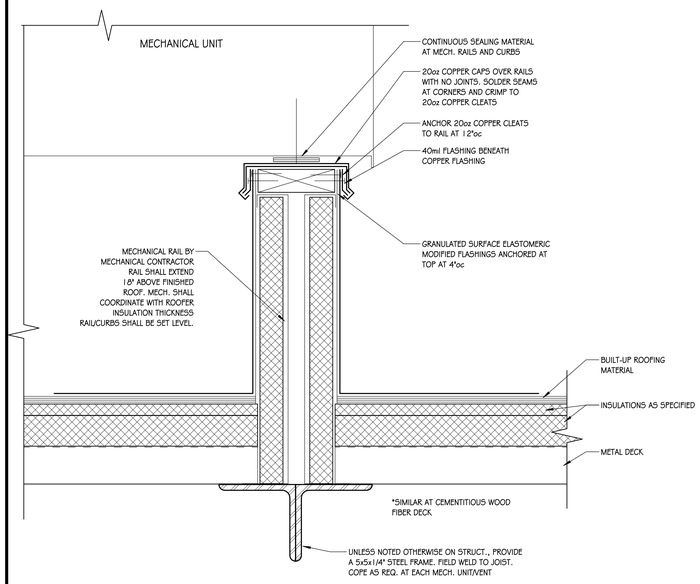
2 TYPICAL ROOF DRAIN DETAIL
A802 1 1/2" = 1'-0"



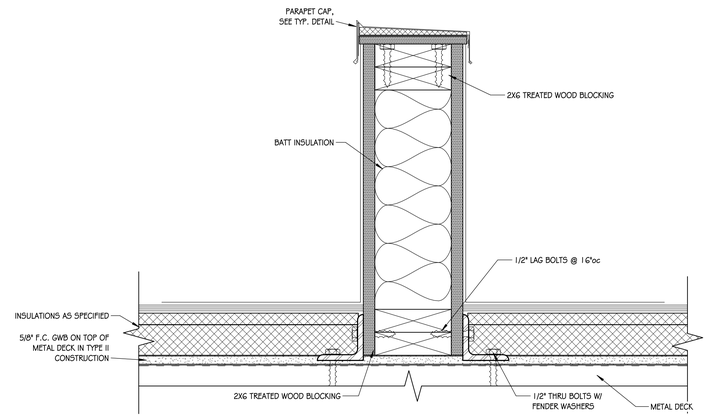
3 TYPICAL PITCH POCKET DETAIL
A802 1 1/2" = 1'-0"



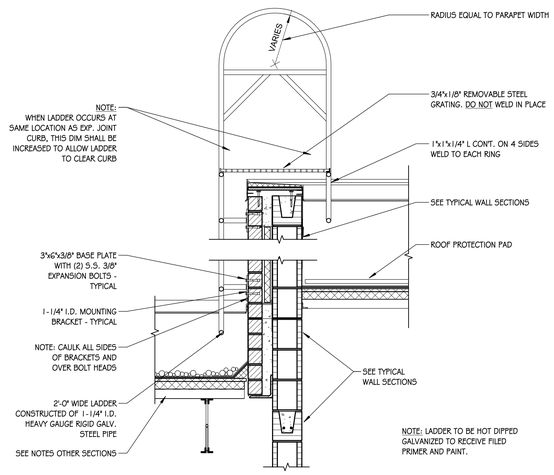
4 TYPICAL PLUMBING VENT DETAIL
A802 1 1/2" = 1'-0"



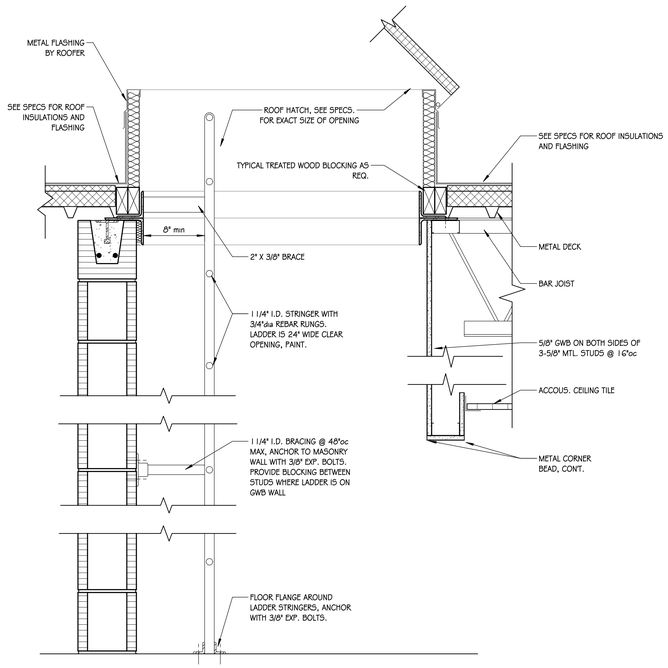
5 TYPICAL MECHANICAL SUPPORT RAIL DETAIL
A802 3" = 1'-0"



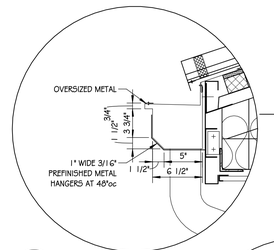
6 TYP MECHANICAL SUPPORT RAIL/ CURB DETAIL
A802 3" = 1'-0"



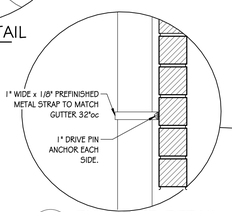
8 TYPICAL SECTION AT ROOF LADDER
A802 3/4" = 1'-0"



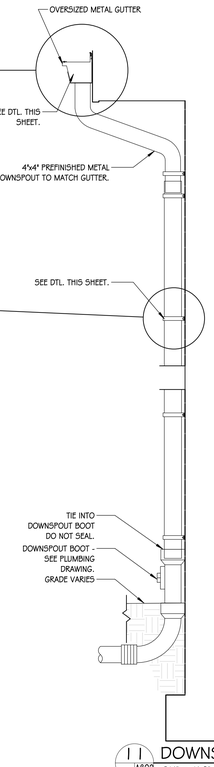
9 ROOF ACCESS DETAIL
A802 1 1/2" = 1'-0"



12 ENLARGED DETAIL
A802 1 1/2" = 1'-0"



13 ENLARGED DETAIL
A802 1 1/2" = 1'-0"



11 DOWNSPOUT DETAIL
A802 3/4" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

STATE OF SOUTH CAROLINA — JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA — C-74002 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — TIMOTHY FOOD SEASE — WEST COLUMBIA — 4136 — REGISTERED ARCHITECT

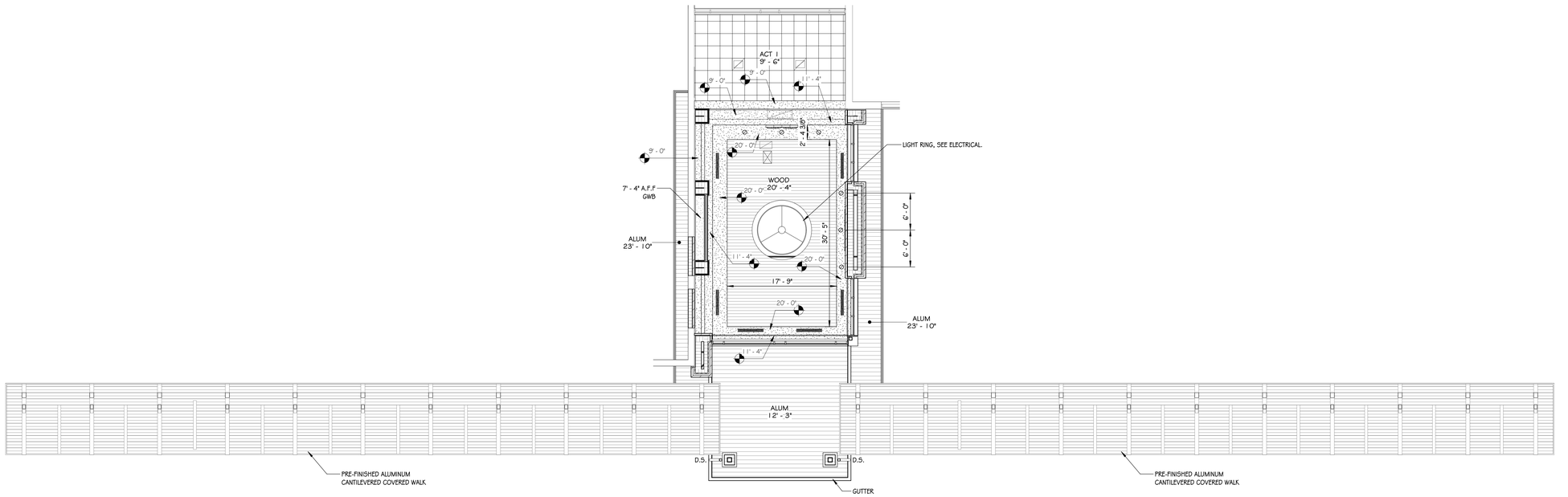
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

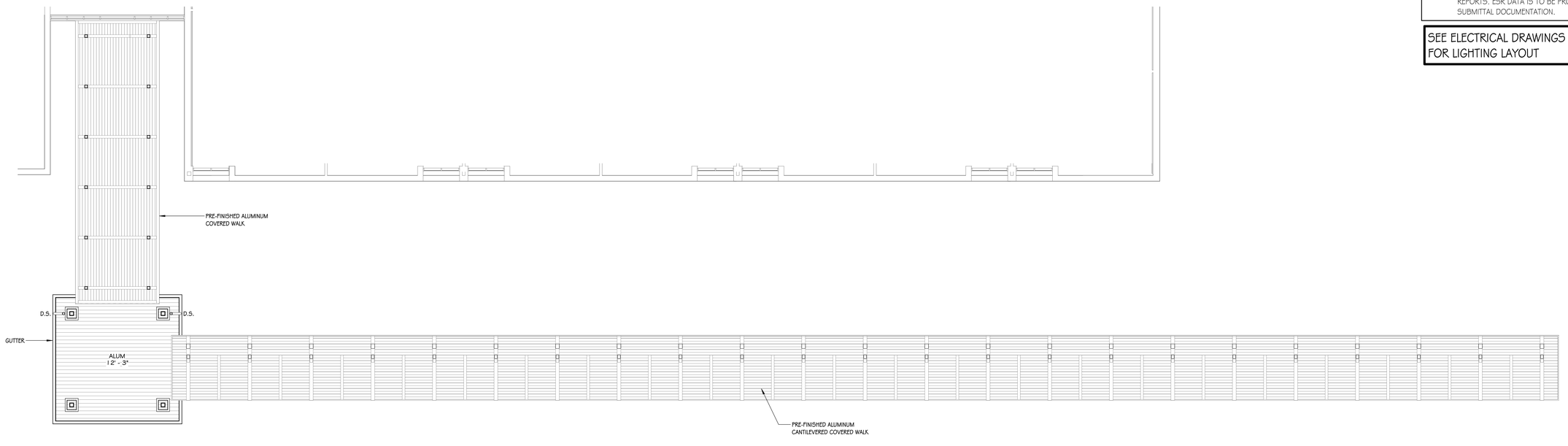
No	Description	Date

DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: ROOF DETAILS

SHEET NO: A802



1 A401 | A901 PARTIAL REFLECTED CEILING PLAN - FRONT LOBBY AND CANOPY
1/8" = 1'-0"



2 A401 | A901 PARTIAL REFLECTED CEILING PLAN - BUS DROP-OFF CANOPY
1/8" = 1'-0"

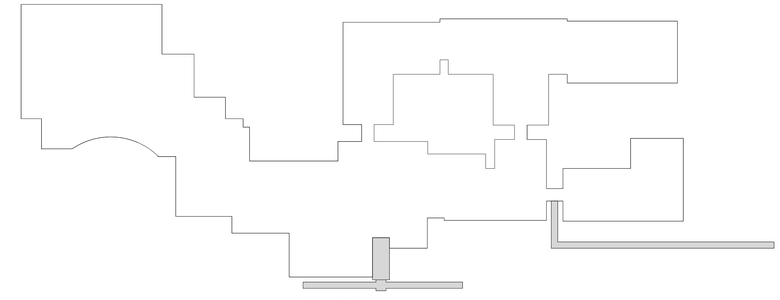
CEILING PLAN LEGEND

- ACT X / X'-X" — INDICATES CEILING TYPE & CEILING HEIGHT ABOVE FINISHED FLOOR
- PREFINISHED METAL CEILING PANEL
- ACOUSTICAL CEILING TILE 1, 2 or 3
- G.W.B. CEILING
- LAY-IN LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- OR — SURFACE MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- HVAC SUPPLY GRILLE. SEE MECHANICAL DRAWINGS FOR PLACEMENT
- HVAC RETURN GRILLE. SEE MECHANICAL DRAWINGS FOR PLACEMENT
- FAN COIL UNIT
- VENTILATION FAN. SEE MECHANICAL DRAWINGS FOR PLACEMENT

GENERAL NOTES

1. SEE ELECTRICAL PLANS FOR LIGHTING FIXTURES.
2. SEE MECHANICAL PLANS FOR HVAC GRILLE REQUIREMENTS.
3. ALL EXPOSED LINTELS, DECKS & STEEL STRUCTURE SHALL BE PAINTED ALONG WITH ADJACENT CONDUITS & ROUGH-IN BOXES. DONT PAINT ANY DEVICES OR PRE-FINISHED ITEMS. COLOR TO BE SELECTED BY ARCHITECT.
4. PAINT EXPOSED CEILING STRUCTURE. COLOR TO BE DETERMINED BY ARCHITECT.
5. CONTRACTOR IS TO INSTALL ALL CEILING SYSTEMS & COMPONENTS IN FULL COMPLIANCE WITH IBC 2018 REQUIREMENTS IN ADDITION TO ALL ASTM E580 & CEILING SYSTEM MANUFACTURER'S IBC TESTED & APPROVED ASSEMBLIES PER MANUFACTURER'S ES REPORTS. ESR DATA IS TO BE PROVIDED WITH SUBMITTAL DOCUMENTATION.

SEE ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT



KEY PLAN
TRUE PROJECT NORTH NORTH

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA C-74002 REGISTERED ARCHITECT

TIMOTHY FODD SEASE WEST COLUMBIA 4136 REGISTERED ARCHITECT

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CD

No	Description	Date

DRAWN BY: SL
CHECKED BY: TS
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: REFLECTED CEILING PLANS
SHEET NO: A901

EMERALD HIGH SCHOOL
ADDITION AND RENOVATIONS

Greenwood County School District Fifty

GREENWOOD, SOUTH CAROLINA

OWNER/DEVELOPER

Greenwood School District 50

GREENWOOD COUNTY SCHOOL DISTRICT 50
RODNEY SMITH
1855 CALHOUN ROAD
GREENWOOD, SC 29648
PHONE (864) 941-5400
FAX (864) 941-5427

ARCHITECT

Jumper Carter Sease ARCHITECTS

JUMPER CARTER SEASE ARCHITECTS
TODD SEASE, AIA, ARCHITECT
412 MEETING STREET
WEST COLUMBIA, SC 29169
PHONE (803) 791-1020
FAX (803) 791-1022
TODD@JCSARCHITECTS.COM

ENGINEER

JACKSON CIVIL ENGINEERING

JACKSON CIVIL ENGINEERING, LLC
RICHARD JACKSON, PE, CIVIL ENGINEER
221 POWELL DRIVE
LEXINGTON, SC 29072
PHONE (803) 603-0598
RICHARD@JACKSONCIVILENG.COM

The Palmetto Utility Protection Service, Inc.
1219 Knox Abbott Drive, Suite 100 Cayce, South Carolina 29033 Voice (803) 939-1117 Fax (803) 939-0704

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA

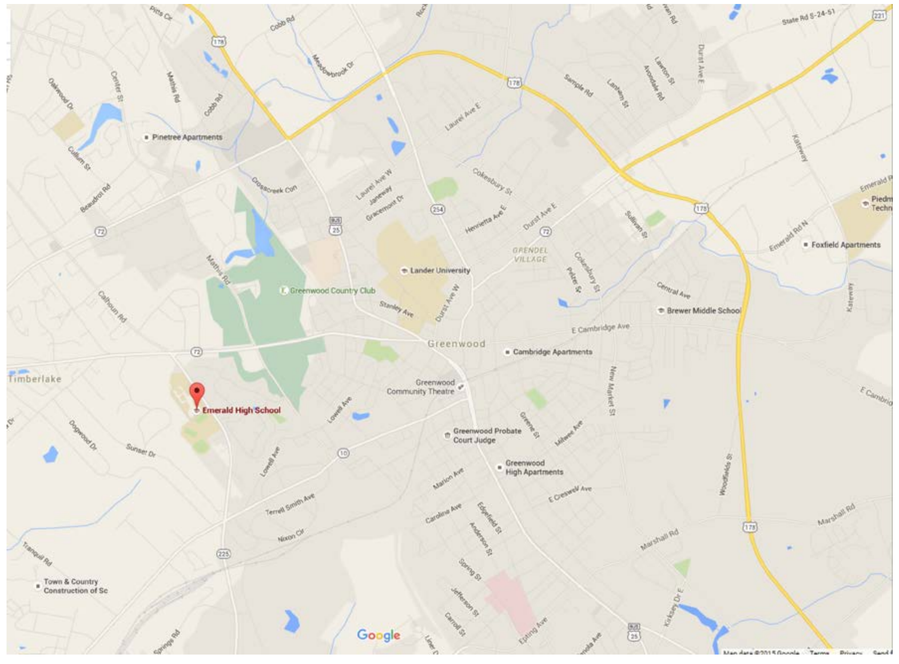
CALL 1-888-721-7877

UNDERGROUND LOCATORS.
CONTRACTOR SHALL CONTACT
THE UNDERGROUND LOCATORS
EVERY 10 DAYS FOR AN UPDATE
TO UTILITY LOCATIONS.

APPLICANT'S [illegible]TIFICATION

Call BEFORE you DIG!

LOCATION MAP



NOT TO SCALE

ZONING PROJECT DATA

ITEM	DESCRIPTION
TMS	6845-127-915
ADDRESS	150 SC-225, GREENWOOD, SC 29646
ZONING	
PROPERTY	
DISTURBED	

SHEET INDEX

Jumper
Carter
Sease
ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 21971 RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: COVER SHEET
SHEET NO: C100

GENERAL CONSTRUCTION NOTES:

1. ALL COMMUNICATION FOR THIS PROJECT SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER. ANY DIRECT CONTACT BETWEEN CONTRACTOR-OWNER, CONTRACTOR-ARCHITECT AND CONTRACTOR/ENGINEER SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER.
2. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE ALL WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS
3. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR REVIEWING CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION.
4. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER/CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.
5. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
7. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
8. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THIS CONTRACT.
10. DETAILS ARE INTENDED TO SHOW FINAL RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB SITE DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, ROADWAY, DRAINAGE WAYS, CULVERTS AND VEGETATION UNTIL SUCH ITEMS ARE TO BE DISTURBED OR REMOVED AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
12. CONTRACTOR SHALL KEEP JOB SITE ARE CLEAN, HAZARD FREE AND DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH. AT COMPLETION OF THE PROJECT CONTRACTOR SHALL REMOVE ALL MATERIAL AND EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY.
13. REPRESENTATIONS OF TRUE NORTH SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THIS JOB SITE.
14. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT P.U.P.S. AT 1-800-121-7877 FOR UTILITY LOCATIONS 72 HOURS PRIOR TO START OF CONSTRUCTION.
15. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWINGS BY THE CONTRACTOR AND ISSUED TO THE ARCHITECT/ENGINEER AT THE COMPLETION OF THE PROJECT.

GENERAL CONSTRUCTION SEQUENCE:

1. RECEIVE NPDES COVERAGE FROM DHEC
2. PRE-CONSTRUCTION MEETING
3. NOTIFY CITY OF DARLINGTON 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES

INITIAL EROSION CONTROL PLAN - PHASE I

4. INSTALLATION OF CONSTRUCTION ENTRANCE(S)
5. CLEARING & GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS
6. INSTALLATION OF PERIMETER CONTROLS (E.G., SILT FENCE)
7. CLEARING & GRUBBING ONLY IN AREAS OF BASINS/ TRAPS/ PONDS
8. INSTALLATION OF BASINS/ TRAPS/ PONDS AND INSTALLATION OF DIVERSIONS TO THOSE STRUCTURES (OUTLET STRUCTURES MUST BE COMPLETELY INSTALLED AS SHOWN ON THE DETAILS BEFORE PROCEEDING TO NEXT STEP; AREAS DRAINING TO THESE STRUCTURES CANNOT BE DISTURBED UNTIL THE STRUCTURES AND DIVERSIONS TO THE STRUCTURES ARE COMPLETELY INSTALLED)

INTERMEDIATE EROSION CONTROL PLAN - PHASE II

9. CLEARING & GRUBBING OF SITE OR DEMOLITION (SEDIMENT & EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED)
10. ROUGH GRADING
11. INSTALLATION OF STORM DRAIN SYSTEM AND PLACEMENT OF INLET PROTECTION AS EACH INLET IS INSTALLED
12. COMPLETE CONSTRUCTION OF THE BUILDING PAD

FINAL EROSION CONTROL PLAN - PHASE III

13. FINE GRADING, PAVING, ETC.
14. PERMANENT/ FINAL STABILIZATION
15. CLEAN-OUT OF DETENTION BASINS THAT WERE USED AS SEDIMENT CONTROL STRUCTURES AND RE-GRADING OF DETENTION POND BOTTOMS± IF NECESSARY, MODIFICATION OF SEDIMENT BASIN RISER TO CONVERT TO DETENTION BASIN OUTLET STRUCTURE
16. REMOVAL OF TEMPORARY SEDIMENT & EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/ OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES.)
17. PERFORM AS-BUILT SURVEYS OF ALL DETENTION STRUCTURES AND SUBMIT TO DHEC OR MS4 FOR ACCEPTANCE.
18. SUBMIT NOTICE OF TERMINATION (N.O.T.) TO SCDHEC STORMWATER DEPARTMENT AS APPROPRIATE.
19. NOTE: IF NPDES COVERAGE IS BEING ISSUED AFTER LAND-DISTURBING ACTIVITIES HAVE ALREADY STARTED (E.G., IN RESPONSE TO A NOTICE TO COMPLY, NOTICE OF VIOLATION, OR ENFORCEMENT ACTION), THEN THE CONSTRUCTION SEQUENCE MUST SPECIFICALLY INDICATE THE ITEMS THAT HAVE ALREADY OCCURRED AND THE ITEMS THAT WILL BE OCCURRING AFTER NPDES COVERAGE IS ISSUED.
20. NOTE: IF FLOWS FROM OFFSITE AREAS WILL BE DIVERTED AROUND THE SITE AND THE ON-SITE STRUCTURES ARE NOT DESIGNED TO HANDLE FLOWS FROM THE OFFSITE AREAS, THEN THE DIVERSIONS/ PIPING FOR THE OFFSITE FLOWS MUST BE INSTALLED BEFORE LAND-DISTURBING ACTIVITIES BEGIN ON THE SITE± INCLUDE THIS IN THE SEQUENCE. SEDIMENT AND EROSION CONTROL MEASURES FOR THE DISTURBED AREAS FOR THE DIVERSION/ PIPING MUST BE INSTALLED BEFORE THOSE AREAS ARE DISTURBED AND SHOULD BE SHOWN ON THE PLANS.
21. NOTE: IF AN EXISTING DETENTION/ SEDIMENT BASIN IS BEING MODIFIED TO HANDLE THE FLOWS FROM THE PROPOSED DEVELOPMENT, THEN IT MUST BE MODIFIED BEFORE LAND-DISTURBING ACTIVITIES BEGIN ON THE SITE. THIS SHOULD BE INCLUDED IN THE SEQUENCE.
22. NOTE: INCLUDE INDIVIDUAL LOT DEVELOPMENT/ CONSTRUCTION IN THE SEQUENCE IF THE SITE WILL NOT BE MASS-GRADED.
23. NOTE: INSTALLATION OF SOME PERMANENT WATER QUALITY DEVICES SHOULD OCCUR AFTER THE SITE IS STABILIZED± INCLUDE THIS IN THE SEQUENCE. CLEANOUT OF OTHER WATER QUALITY DEVICES THAT WERE USED DURING CONSTRUCTION SHOULD OCCUR AFTER SITE STABILIZATION.
24. NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.

SEDIMENT AND EROSION CONTROL NOTES:

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCRI00000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE±

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

- WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL±
- WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS±
- FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE± AND
- SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

GENERAL GRADING NOTES:

1. THIS IS NOT A BALANCED SITE. IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO HAUL IN OR HAUL OFF DIRT AS NECESSARY TO COMPLETE CONSTRUCTION.
2. INSTALLATION OF SOIL EROSION CONTROL MEASURES AND PRACTICES WILL BE IMPLEMENTED PRIOR TO LAND DISTURBING ACTIVITIES
3. FINAL GRADING WILL CONSIST OF SPREADING TOPSOIL (4" MINIMUM) TO FINISHED GRADES AS INDICATED ON ALL DISTURBED AREAS.
4. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED AS DETERMINED BY ON-SITE INSPECTION.
5. ALL DISTURBED AREAS TO BE SODDED OR HYDROSEEDED ACCORDING TO GRASSING SPECIFICATIONS
6. UNTIL THE SITE IS STABILIZED, SEDIMENT SHALL BE REMOVED FROM PONDS AFTER EVERY SIGNIFICANT RAINFALL EVENT (GREATER THAN 0.5 INCHES). AFTER THE SITE IS STABILIZED REGRADE THE PONDS TO DESIGN DEPTH. ANY SEDIMENT REMOVED SHOULD BE PROPERLY DISPOSED OF OR USED ONSITE.
7. ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AND/OR UNDER THE SUPERVISION OF A SOILS CONSULTANT.

GENERAL STORM DRAINAGE NOTES:

1. ALL INSTALLATION SHALL BE IN ACCORDANCE WITH SCDOT PIPE TRENCHES SC-M-714 "SUPPLEMENTAL TECHNICAL SPECIFICATION FOR PERMANENT PIPE CULVERTS" DATED APRIL 6, 2009.
2. ALL CONCRETE PIPES SHALL BE IN ACCORDANCE ASTM-C-76 CLASS III, B WALL.
3. HDPE - SMOOTH INTERIOR CORRUGATED PLASTIC PIPES & FITTINGS IN ACCORDANCE WITH ASTM-F-405 MAY BE UTILIZED ONLY WHERE SHOWN AND FROM THE FOLLOWING MANUFACTURER OR APPROVED EQUAL:
   3.1. A.D.S. - N12 MFRD. BY ADVANCED DRAINAGE SYSTEMS, INC.
   3.2. 3300 RIVERSIDE DRIVE, COLUMBUS, OHIO 43221
4. PIPE SLOPES SHALL NOT BE DECREASED FROM THOSE SHOWN WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
5. CONTRACTOR SHALL FURNISH AND INSTALL ALL BENDS, FITTINGS, ETC. AS REQUIRED TO FACILITATE CONSTRUCTION OF
6. SEE STORM DRAINAGE PROFILES FOR ADDITIONAL INFORMATION AND PIPELINE MATERIAL.

Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA — JACKSON CIVIL ENGINEERING No. 6177 — CERTIFICATE OF AUTHORIZATION

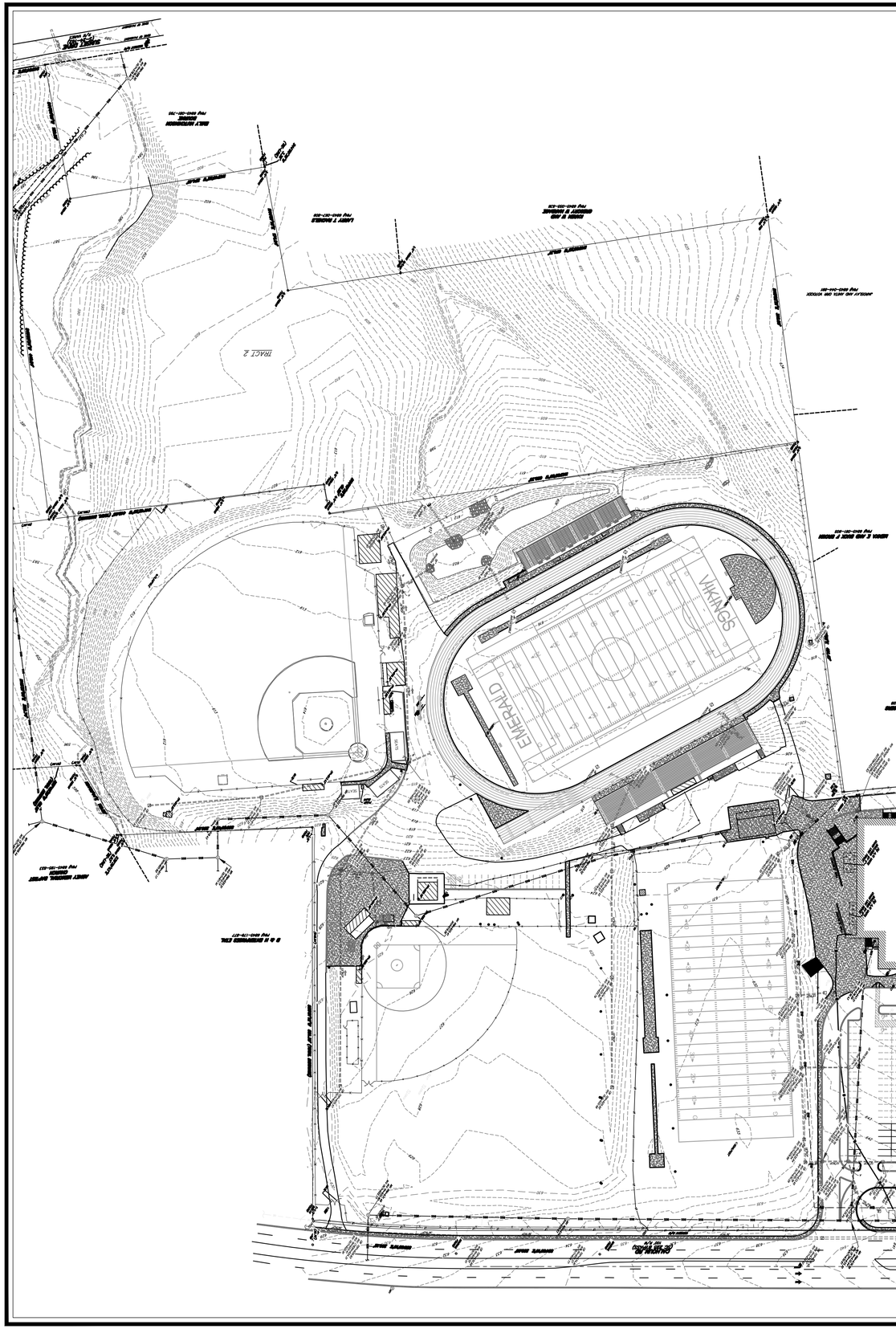
SOUTH CAROLINA — REGISTERED — No. 21971 — RICHARD P. JACKSON, II

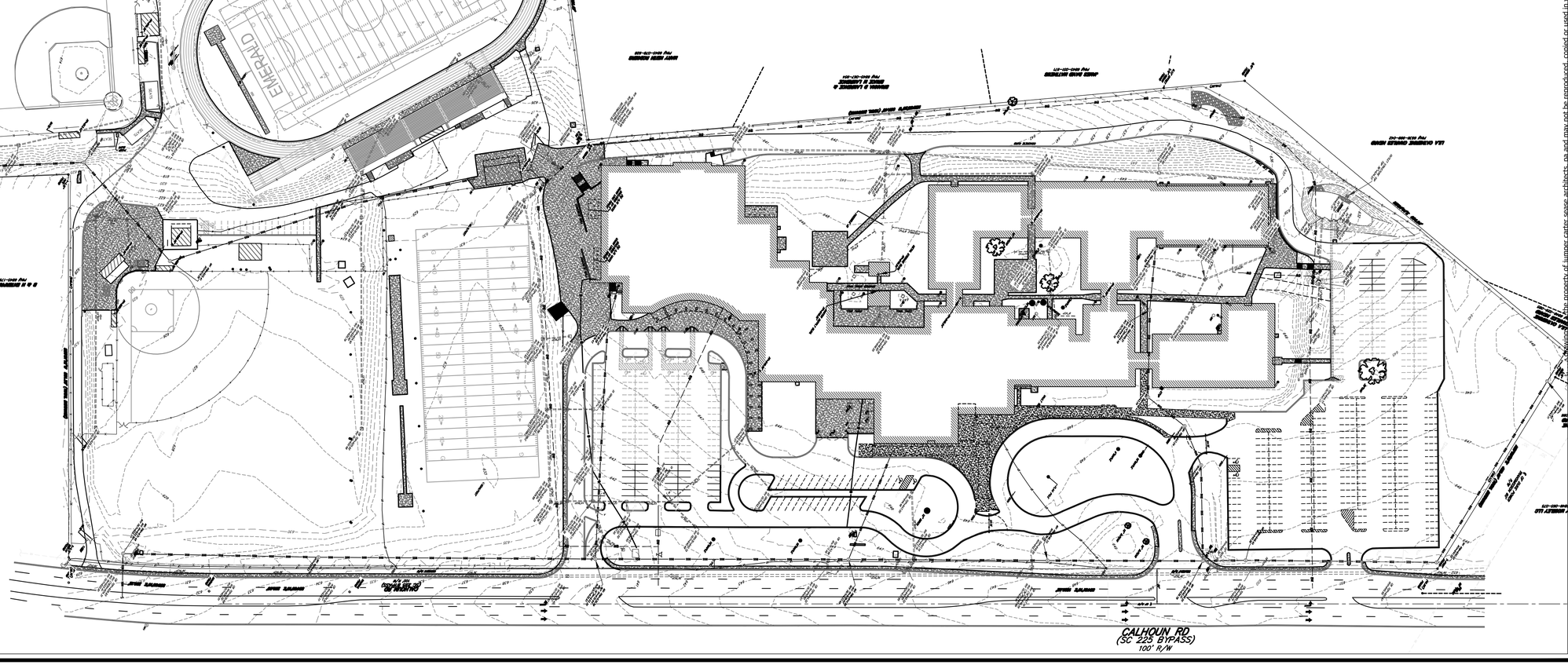
EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

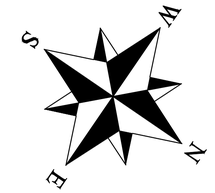
No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCS
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: GENERAL NOTES
SHEET NO: C101







0 80 160 240 400

GRAPHIC SCALE IN FEET

Jumper
Carter
Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON
CIVIL
ENGINEERING
No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
21971
REGISTERED
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

DRAWN BY: RPJ

CHECKED BY: JCE

COMM NO: 2306

DATE: DEC 5, 2022

SHEET TITLE:

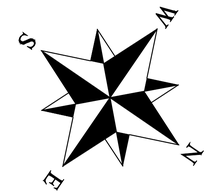
TOPOGRAPHIC SURVEY

SHEET NO:

C102

DEMOLITION/CLEARING NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS TO BE DEMOLISHED AND REMOVED FROM THE SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING & WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THERE SHALL BE NO BURNING ON SITE.
3. EXISTING STRUCTURES SO NOTED AND RELATED FOOTINGS, FOUNDATIONS, STEPS, ETC. ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF ACCORDING TO APPLICABLE REGULATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL AND/OR RELOCATION OF ALL UTILITIES (ABOVE AND BELOW GROUND LEVEL) (INCLUDING SEPTIC TANKS) AS NECESSARY TO ACCOMMODATE THE IMPROVEMENTS SHOWN ON THESE PLANS AND AS REQUIRED TO FACILITATE CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SERVICES WHICH ARE INDICATED TO BE EXTENDED OR OTHERWISE REUSED.
6. ALL EXISTING CONCRETE AND/OR ASPHALT PAVEMENT THAT IS INDICATED ON THESE PLANS TO BE REMOVED FROM THE PROJECT SITE SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR ACCORDING TO APPLICABLE CODES.
7. THE CONTRACTOR SHALL CONSULT THE OWNER REGARDING SALVAGE. ANY ITEMS NOT RETAINED BY THE OWNER SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMOLISH AND/OR LEGALLY DISPOSE OF.
8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE IN PLACE PRIOR TO DEMOLITION.
9. IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE APPROPRIATE AGENCIES FOR PROPER REMOVAL AND DISPOSAL.
10. DEMOLITION SHALL MEET ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS.



0 50 100 150 250

GRAPHIC SCALE IN FEET

DEMOLISH EXISTING SIDEWALK CONCRETE SURFACE AND DISPOSE OF OFF-SITE

DEMOLISH EXISTING CURB&GUTTER, SIDEWALK CONCRETE, PAVEMENT SURFACES AND DISPOSE OF OFF-SITE

DEMOLISH EXISTING CURB&GUTTER, SIDEWALK CONCRETE, PAVEMENT SURFACES AND DISPOSE OF OFF-SITE

DEMOLISH EXISTING PAVEMENT SURFACES AND DISPOSE OF OFF-SITE

DEMOLISH EXISTING CURB&GUTTER, SIDEWALK CONCRETE, PAVEMENT SURFACES AND DISPOSE OF OFF-SITE

DEMOLISH EXISTING SCHOOL MONUMENT SIGN AND DISPOSE OF OFF-SITE

DEMOLISH EXISTING CURB&GUTTER, SIDEWALK CONCRETE, PAVEMENT SURFACES AND DISPOSE OF OFF-SITE

SAW CUT

CALHOUN RD
(SC 225 BYPASS)
100' R/W

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON CIVIL ENGINEERING No. 6177
CERTIFICATE OF AUTHORIZATION

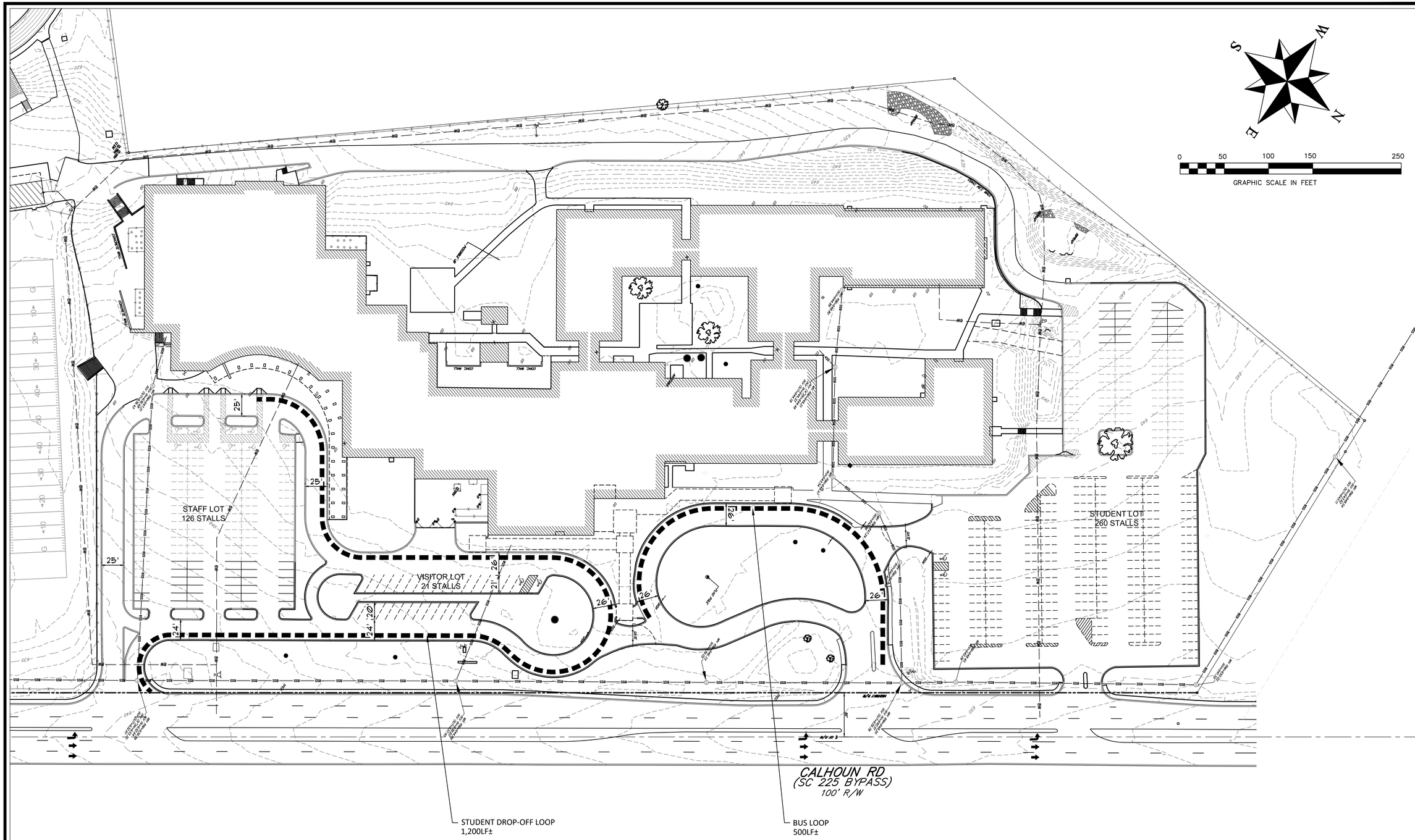
SOUTH CAROLINA
21971
REGISTERED
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: DEMOLITION PLAN
SHEET NO: C103



Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

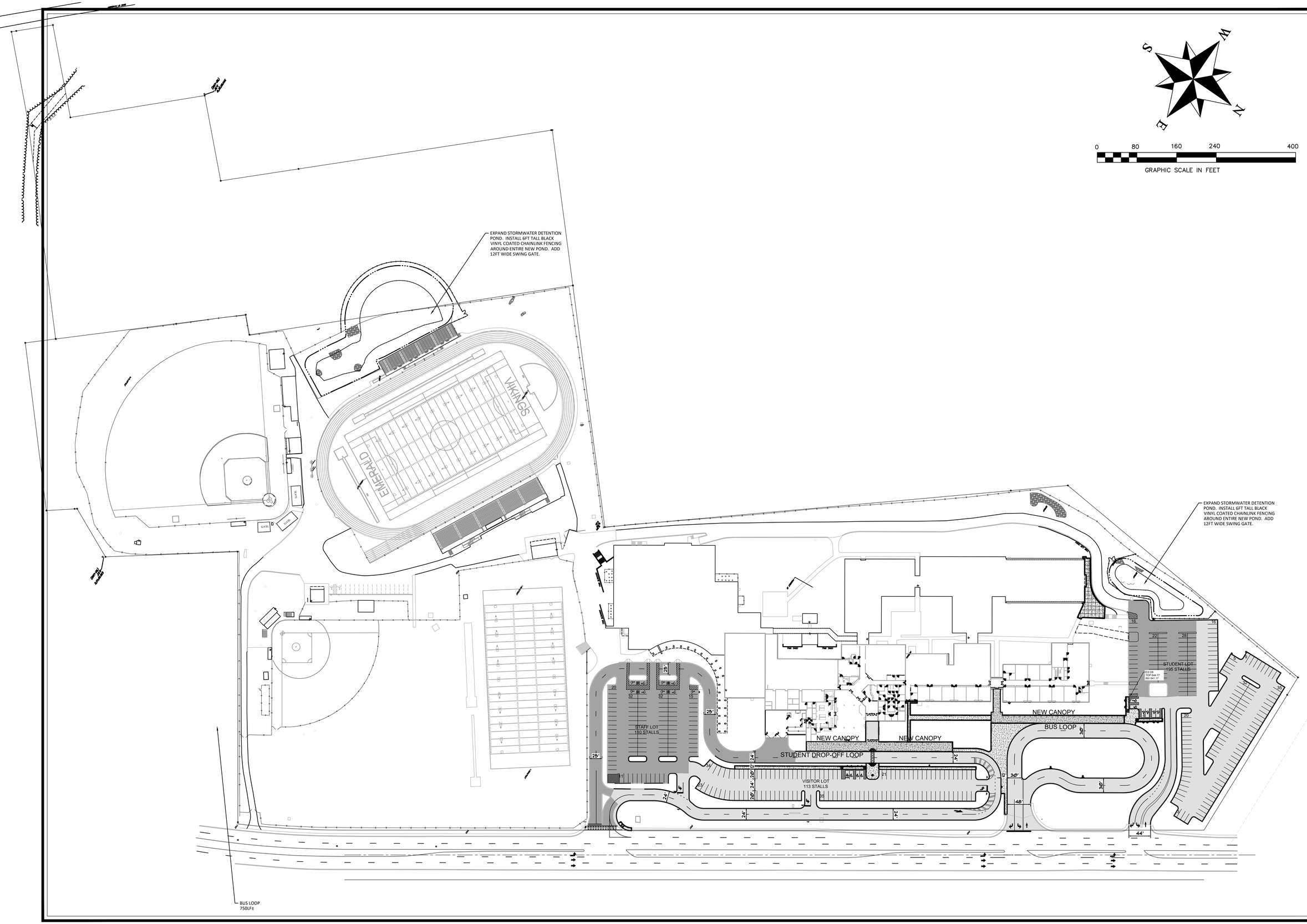
SOUTH CAROLINA
JACKSON CIVIL ENGINEERING No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
21971
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: DEC 5, 2022
SHEET TITLE: EXISTING CONDITIONS
SHEET NO: C201



Jumper
Carter
Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON
CIVIL
ENGINEERING
No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
21971
REGISTERED
LICENSED
ARCHITECT
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ

CHECKED BY: JCE

COMM NO: 2306

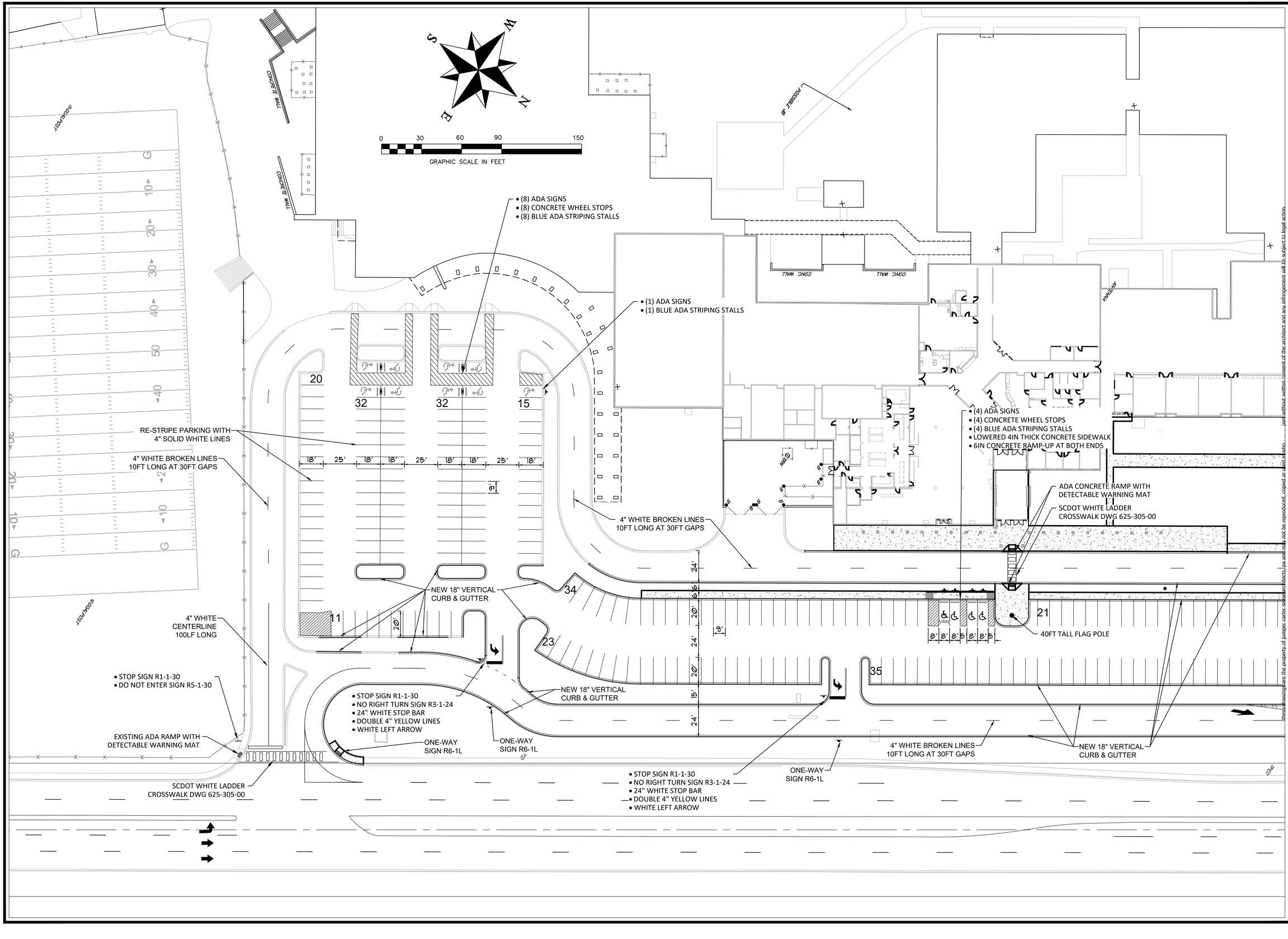
DATE: JAN 10, 2023

SHEET TITLE:

OVERALL
SITE PLAN

SHEET NO:

C202



Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA — JACKSON CIVIL ENGINEERING No. 6177 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — 21971 — REGISTERED — GERARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: SITE PLAN AREA 1
SHEET NO: C203

REMOVE EXISTING CONCRETE SIDEWALK. COMPACT SUBGRADE AND INSTALL NEW 4IN THICK CONCRETE SIDEWALK

NEW 6FT TALL BLACK VINYL COATED CHAINLINK FENCING WITH 12FT SWING GATE AROUND NEWLY EXPANDED STORMWATER DETENTION POND

N E S W

0 30 60 90 150

GRAPHIC SCALE IN FEET

NEW 18" VERTICAL CURB & GUTTER (TYP)

2FT WIDE CONCRETE RUNOFF FLUME

EXISTING CURB ISLAND. PROTECT IN PLACE

- (6) ADA SIGNS
- (6) CONCRETE WHEEL STOPS
- (6) BLUE ADA STRIPING STALLS
- LOWERED 4IN THICK CONCRETE SIDEWALK
- 6IN CONCRETE RAMP-UP AT BOTH ENDS

4IN THICK CONCRETE SIDEWALK

4" WHITE BROKEN LINES 10FT LONG AT 30FT GAPS

ADA CONCRETE RAMP WITH DETECTABLE WARNING MAT

SCDOT WHITE LADDER CROSSWALK DWG 625-305-00

- STOP SIGN R1-1-30
- NO RIGHT TURN SIGN R3-1-24
- 24" WHITE STOP BAR
- DOUBLE 4" YELLOW LINES
- WHITE LEFT ARROW

4" WHITE LINE 2FT LONG AT 5FT GAPS

ONE-WAY SIGN R6-1L

2FT WIDE CONCRETE RUNOFF FLUME

NEW 18" VERTICAL CURB & GUTTER (TYP)

4" WHITE LINE 2FT LONG AT 5FT GAPS

40FT TALL FLAG POLE

4" WHITE PARKING LINES

4" DOUBLE YELLOW CENTERLINE

TIE NEW CURBING INTO EXISTING CURB

4" WHITE CENTERLINE 100LF LONG

4" WHITE CENTERLINE 100LF LONG

TIE NEW CURBING INTO EXISTING CURB

4" DOUBLE YELLOW CENTERLINE

NEW 18" VERTICAL CURB & GUTTER

4IN THICK CONCRETE SIDEWALK. TIE INTO EXISTING SIDEWALK

4" WHITE BROKEN LINES 10FT LONG AT 30FT GAPS

- STOP SIGN R1-1-30
- DO NOT ENTER SIGN R5-1-30

- STOP SIGN R1-1-30
- DO NOT ENTER SIGN R5-1-30

Jumper Carter Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED No. 21971 RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date
	PRICING DOCS	

DRAWN BY: RPJ

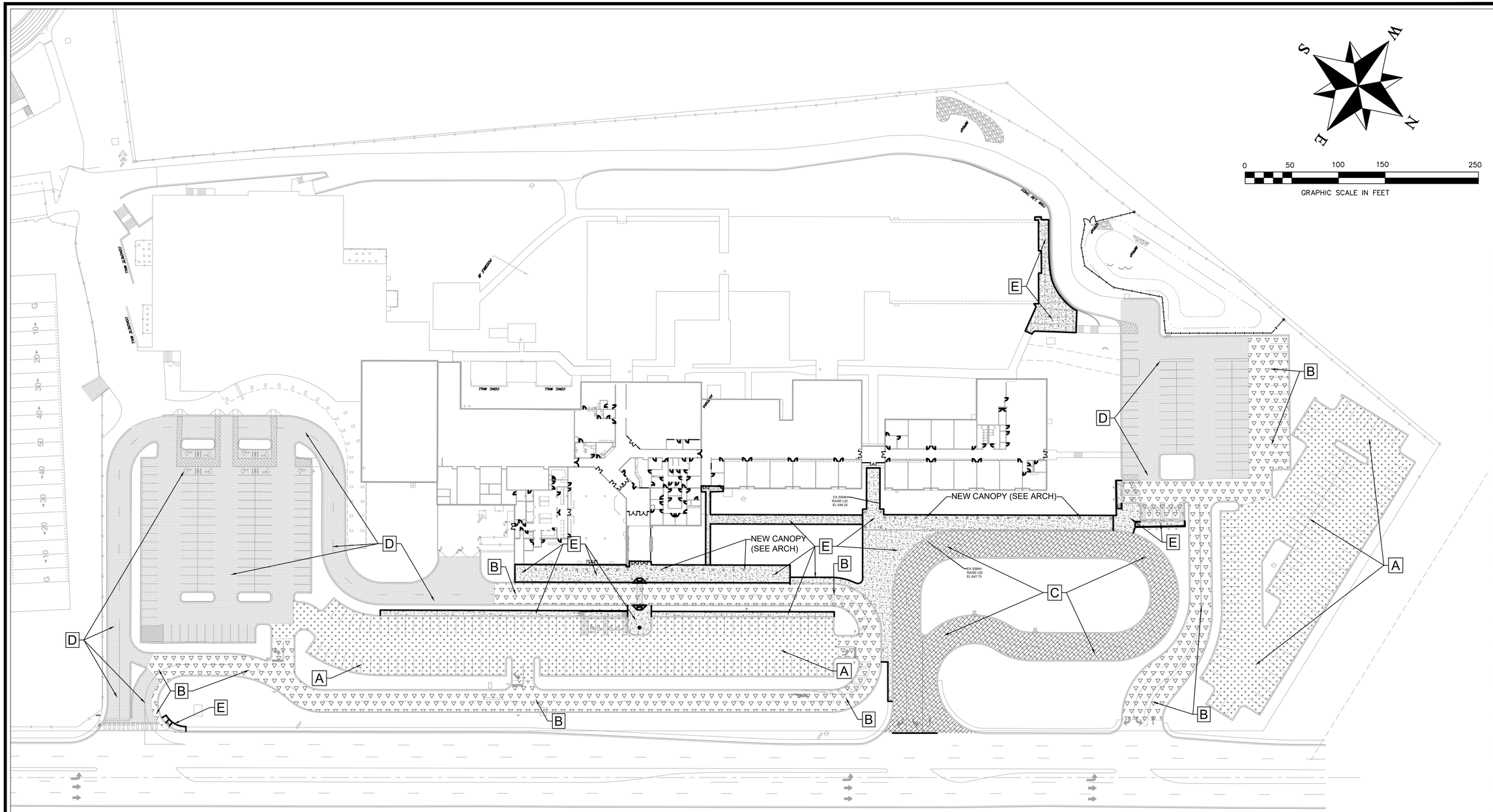
CHECKED BY: JCE

COMM NO: 2306

DATE: JAN 10, 2023

SHEET TITLE: SITE PLAN AREA 2

SHEET NO: C204



PAVING LEGEND (SEE DETAILS)

A		CLASS 1 ASPHALT PAVEMENT SECTION
B		CLASS 2 ASPHALT PAVEMENT SECTION
C		CLASS 3 ASPHALT PAVEMENT SECTION
D		2IN THICK MILL AND FILL ASPHALT PAVING
E		CONCRETE SIDEWALK

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON CIVIL ENGINEERING No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA 21971 REGISTERED RICHARD P. JACKSON II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

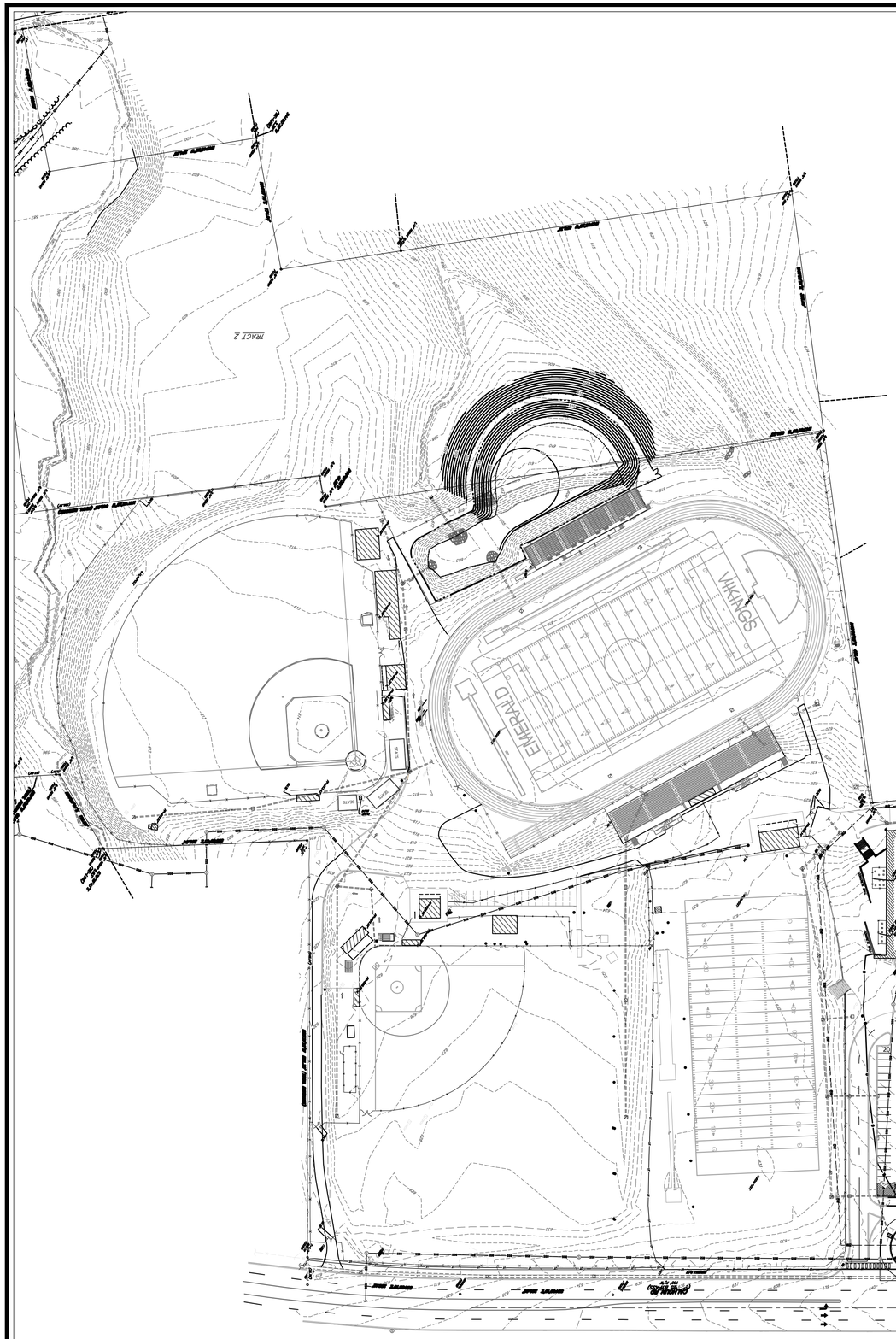
No	Description	Date

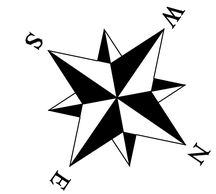
PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: JAN 10, 2023

SHEET TITLE:
PAVING PLAN

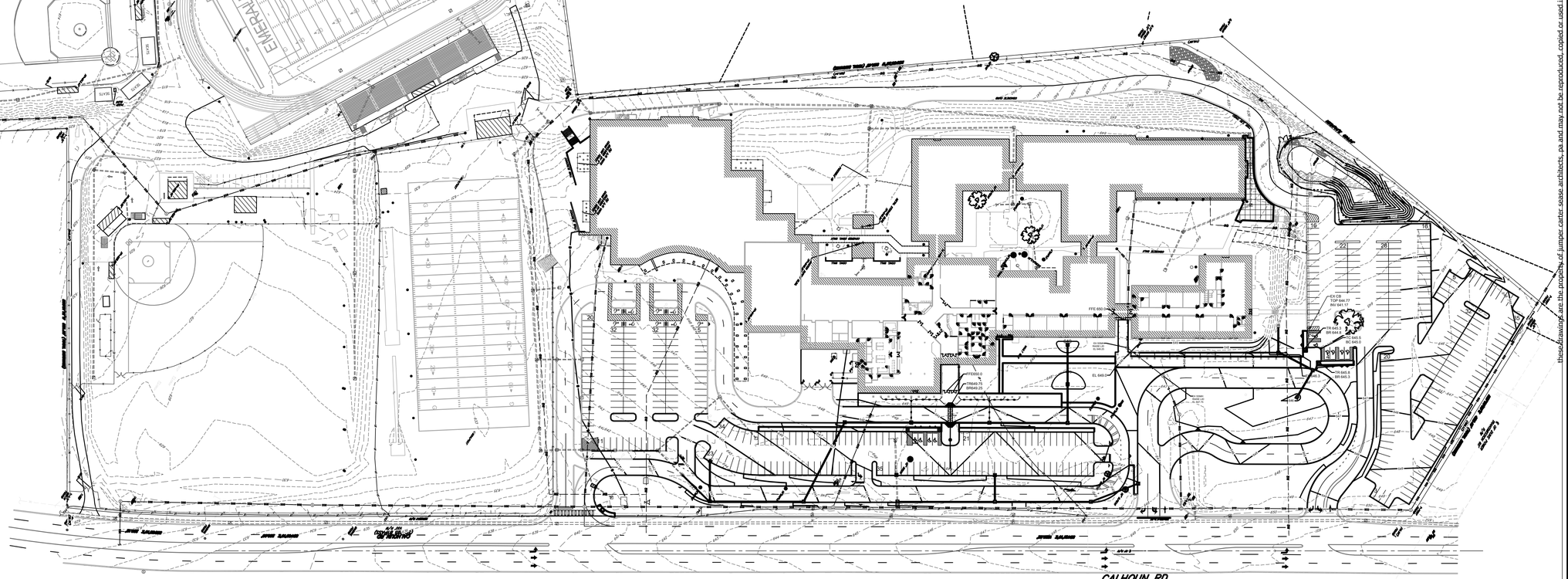
SHEET NO:
C205





0 80 160 240 400

GRAPHIC SCALE IN FEET



Jumper
Carter
Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON
CIVIL
ENGINEERING
No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
21971
REGISTERED
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ

CHECKED BY: JCE

COMM NO: 2306

DATE: JAN 10, 2023

SHEET TITLE:

OVERALL
GRADING PLAN

SHEET NO:

C206

GRAPHIC SCALE IN FEET
0 30 60 90 150

MH RIM=647.21
INV IN=636.68
INV OUT=636.43

MH RIM=629.39
INV IN=632.44
INV (6")IN=633.30
INV OUT=632.21

MH RIM=644.89
INV IN=638.60
INV OUT=637.45

MH RIM=646.73
INV=639.05

FFE650.0
TR649.75
BR649.25

S34°21'10"E 1526.82'

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON CIVIL ENGINEERING
CERTIFICATE OF AUTHORIZATION No. 6177

SOUTH CAROLINA
REGISTERED
21971
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

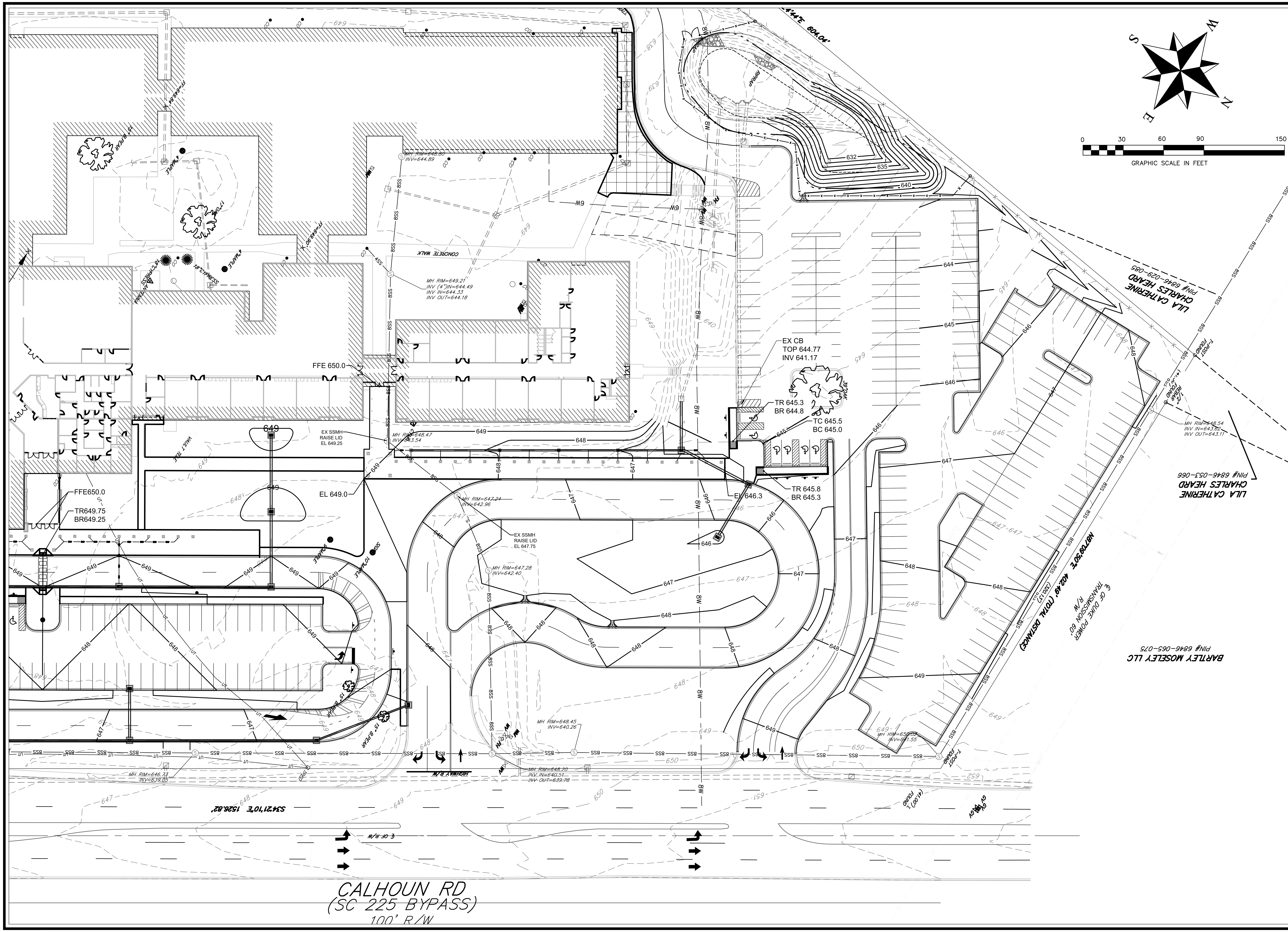
No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: JAN 10, 2023

SHEET TITLE:
GRADING PLAN
AREA 1

SHEET NO:
C207



Jumper
Carter
Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON CIVIL ENGINEERING No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 21971
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ

CHECKED BY: JCE

COMM NO: 2306

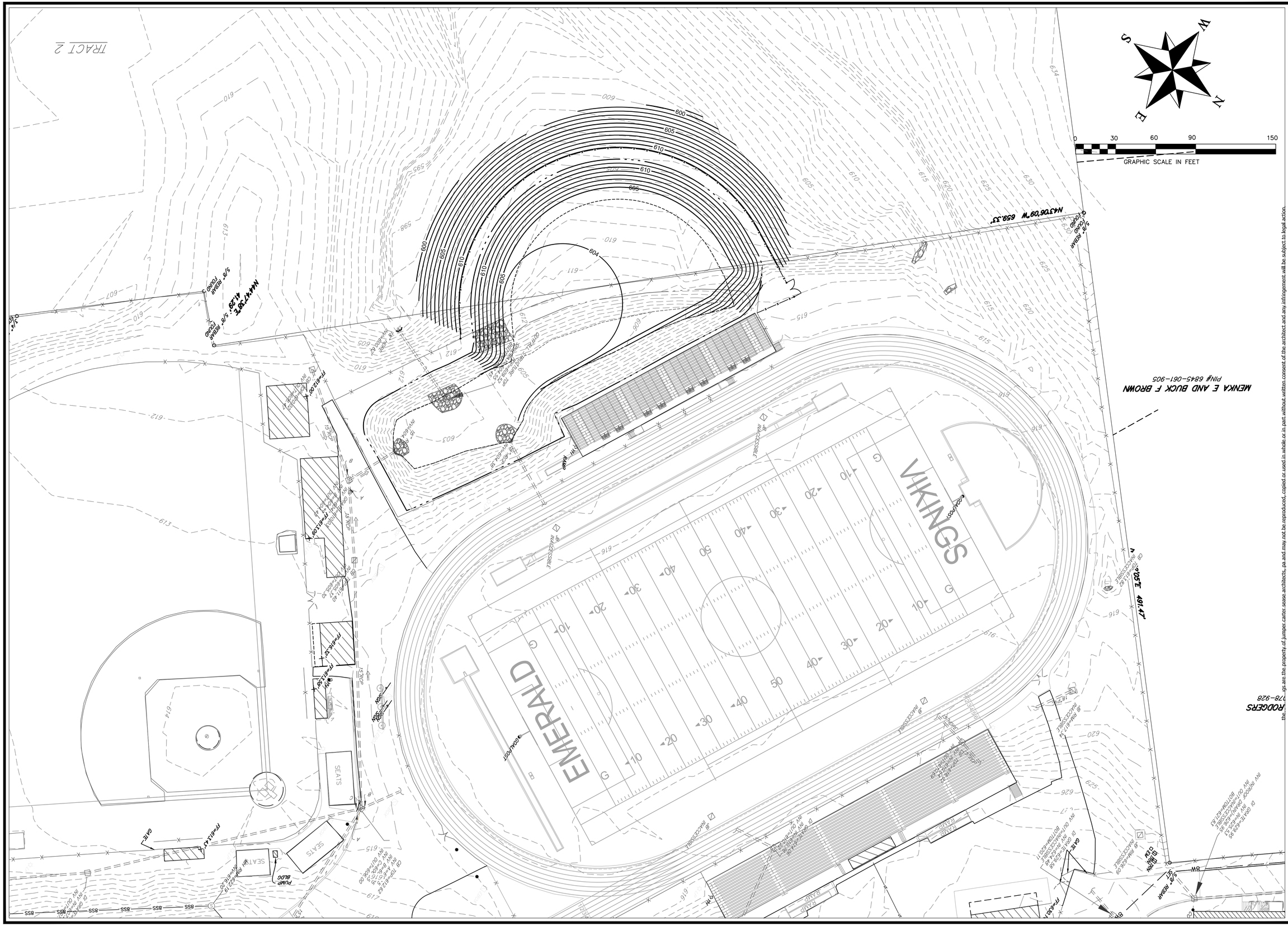
DATE: JAN 10, 2023

SHEET TITLE:

GRADING PLAN
AREA 2

SHEET NO:

C208



Jumper
Carter
Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON
CIVIL
ENGINEERING
No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
21971
REGISTERED
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

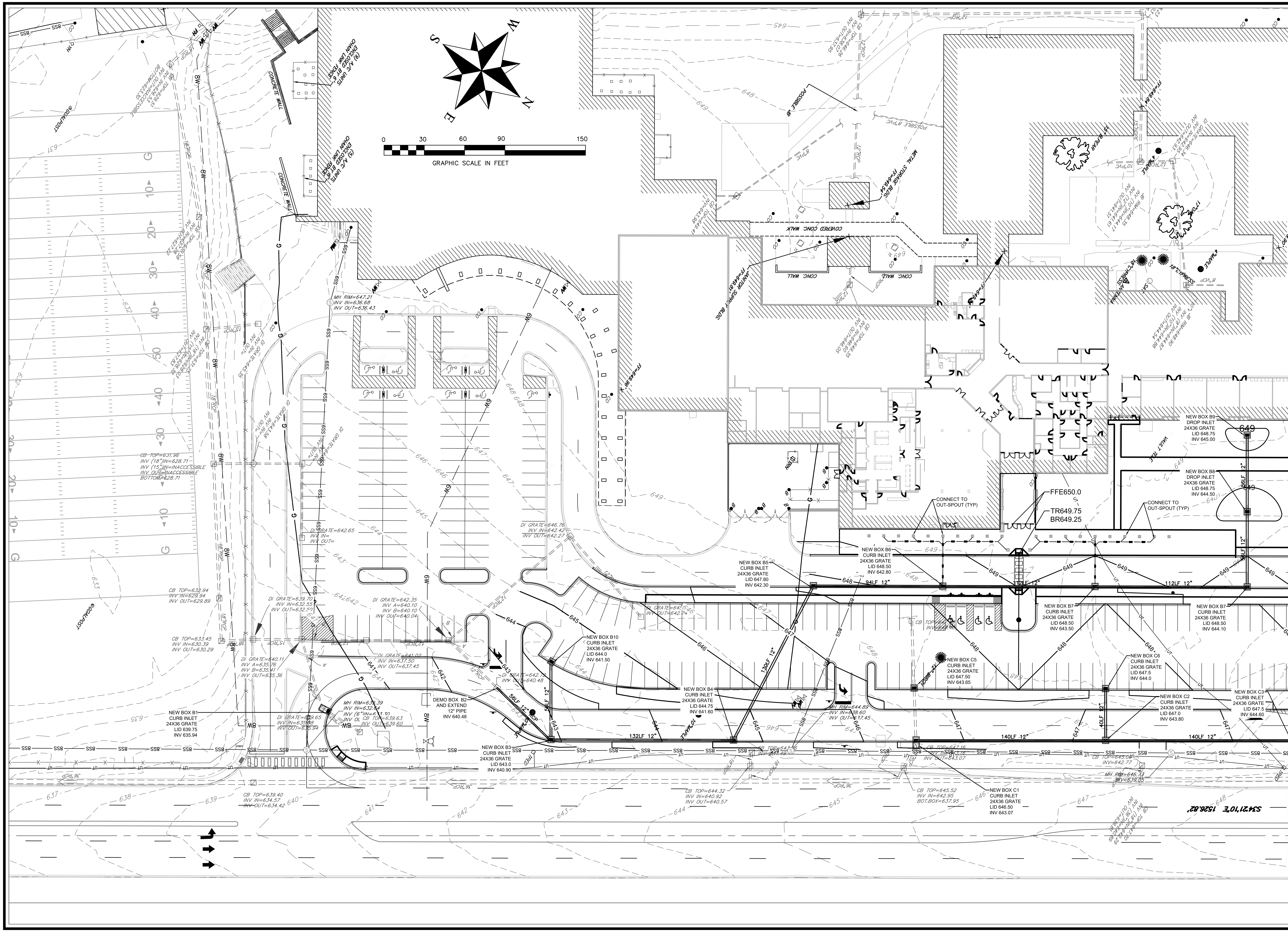
No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: JAN 10, 2023

SHEET TITLE:
GRADING PLAN
AREA 3

SHEET NO:
C209



Jumper Carter Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA — JACKSON CIVIL ENGINEERING No. 6177 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21971 — RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ

CHECKED BY: JCE

COMM NO: 2306

DATE: JAN 10, 2023

SHEET TITLE:

STORM PLAN
AREA 1

SHEET NO:

C210

DRAIN

N E S W

0 30 60 90 150

GRAPHIC SCALE IN FEET

200LF OF 6IN FRENCH DRAIN TIED INTO EXISTING STORM BOXES.

JB RIM=647.99
INV IN=641.38
INV OUT=641.32

JB RIM=649.64
INV IN=641.82
INV OUT=641.66

JB RIM=649.32
INV IN=642.42
INV OUT=642.32

MH RIM=648.80
INV=644.89

DI GRATE=647.52
INV (6")=645.42
INV (12")=645.05
INV (15")=643.32
INV OUT=643.36

MH RIM=649.21
INV (4")IN=644.49
INV IN=644.33
INV OUT=644.18

CONCRETE WALK

FFE 650.0

BOX A1
EX STORM
NEW 12" IN
INV 641.5

NDS DI-A6
18X18BOX
LID 648.5
INV 647.5

NDS DI-A5
18X18BOX
LID 648.0
INV 647.0

NDS DI-A4
18X18BOX
LID 647.5
INV 645.5

NDS DI-A3
18X18BOX
LID 647.0
INV 645.0

NEW BOX A2
24X36GRATE
TOP 645.50
INV 642.5

EX CB
TOP 644.77
INV 641.17

TR 645.3
BR 644.8

TC 645.5
BC 645.0

NEW BOX B9
DROP INLET
24X36 GRATE
LID 648.75
INV 645.00

EX SSMH
RAISE LID
EL 649.25

MH RIM=648.47
INV=643.54

66LF 12" PVC

44LF 12" PVC

44LF 12" PVC

44LF 12" PVC

36LF 12" PVC

CONNECT TO
OUT-SPOUT (TYP)

EL 649.0

EL 646.3

TR 645.8
BR 645.3

NEW BOX B8
DROP INLET
24X36 GRATE
LID 648.75
INV 644.50

56LF 12"

56LF 12"

FFE650.0

TR649.75
BR649.25

CONNECT TO
OUT-SPOUT (TYP)

MH RIM=647.24
INV=642.96

EX SSMH
RAISE LID
EL 647.75

MH RIM=647.28
INV=642.40

NEW BOX A8
CURB INLET
24X36 GRATE
LID 646.0
INV 643.5

NEW BOX A7
CURB INLET
24X36 GRATE
LID 645.5
INV 643.0

112LF 12"

112LF 12"

NEW BOX B7
CURB INLET
24X36 GRATE
LID 648.50
INV 643.50

NEW BOX B7
CURB INLET
24X36 GRATE
LID 648.50
INV 644.10

NEW BOX C6
CURB INLET
24X36 GRATE
LID 647.5
INV 644.0

NEW BOX C4
CURB INLET
24X36 GRATE
LID 647.5
INV 645.0

NEW BOX C3
CURB INLET
24X36 GRATE
LID 647.5
INV 644.60

NEW BOX C2
CURB INLET
24X36 GRATE
LID 647.0
INV 643.80

15" BORE

70LF 12"

40LF 12"

140LF 12"

140LF 12"

MH RIM=648.45
INV=640.26

MH RIM=646.71
INV=639.05

MH RIM=648.20
INV IN=640.51
INV OUT=639.78

NEW BOX C1
CURB INLET
24X36 GRATE
LID 646.50
INV 643.07

MH RIM=648.54
INV IN=643.84
INV OUT=643.71

LILA CATHERINE CHARLES HEARD
PIN# 8846-029-066

LILA CATHERINE CHARLES HEARD
PIN# 8846-053-066

BARTLEY MOSELEY LLC
PIN# 8846-065-075

N07°09'50"E 402.49' (TOTAL DISTANCE)

E. OF DUKE POWER TRANSMISSION R/W 60'

S34°21'10"E 1528.82'

CALHOUN RD
(SC 225 BYPASS)
100' R/W

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON CIVIL ENGINEERING No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
21971
REGISTERED
RICHARD P. JACKSON, II

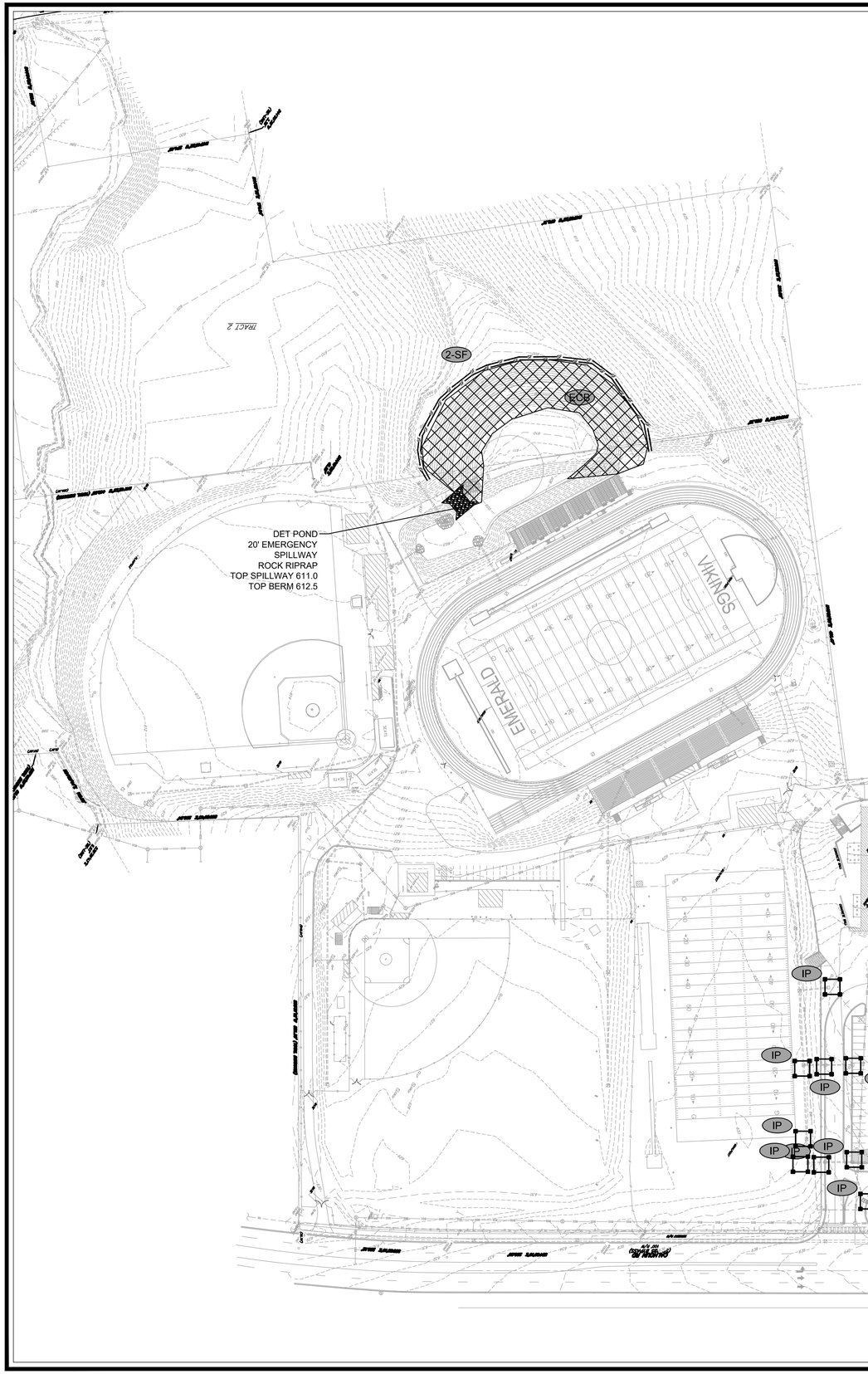
EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

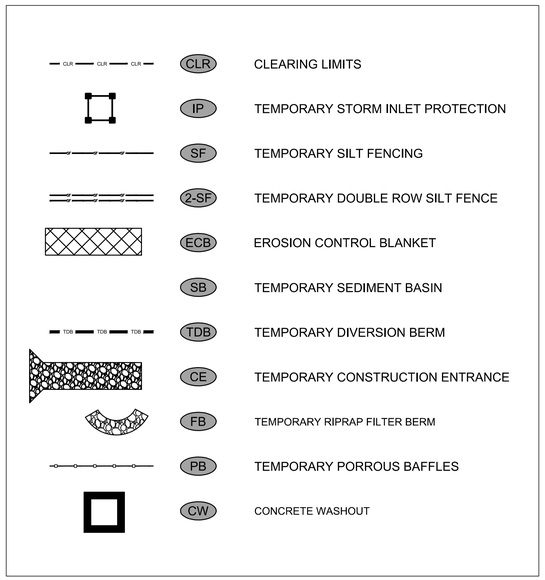
No	Description	Date
	PRICING DOCS	

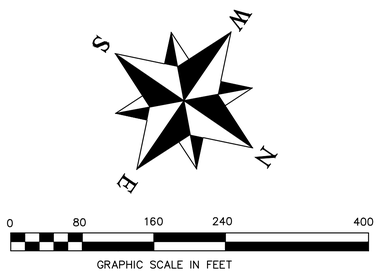
DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: JAN 10, 2023

SHEET TITLE:
STORM PLAN
AREA 2

SHEET NO:
C211







Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON CIVIL ENGINEERING No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED 21971
PROFESSIONAL ENGINEER
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

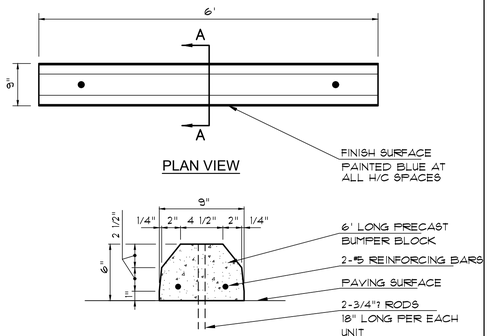
No	Description	Date

PRICING DOCS

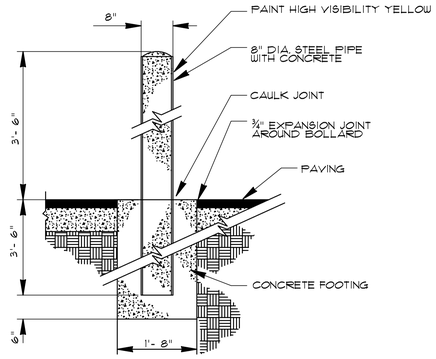
DRAWN BY: RPJ
CHECKED BY: JCE
COMM NO: 2306
DATE: JAN 10, 2023

SHEET TITLE:
EROSION CONTROL PLAN

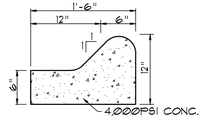
SHEET NO:
C212



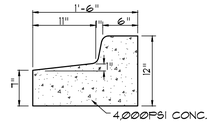
PRECAST CONCRETE WHEEL STOP
NTS



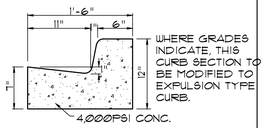
STEEL PIPE BOLLARDS
NTS



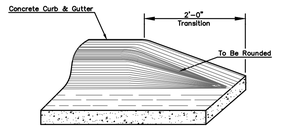
18" ROLLED CURB AND GUTTER
NTS



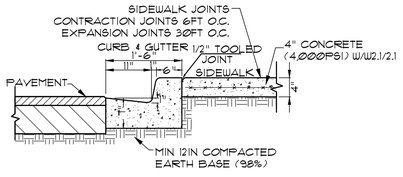
18" EXPULSION CURB



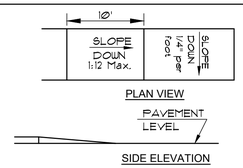
18" COLLECTION CURB
NTS



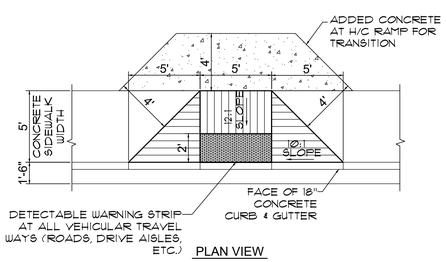
FEATHERING CURB AND GUTTER DETAIL
NTS



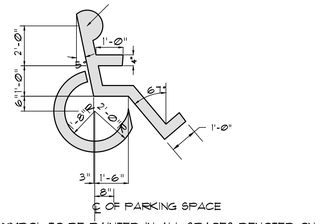
CONCRETE CURB & GUTTER & SIDEWALK DETAIL
NTS



DEPRESSED SIDEWALK FOR HANDICAP ACCESS
NTS

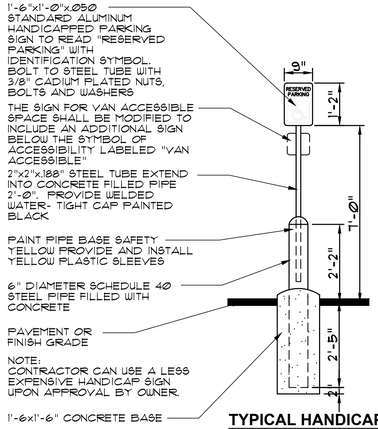


TYPICAL ADA HANDICAP RAMP CURB CUT DETAIL
NTS

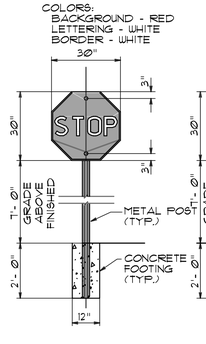


NOTE: SYMBOL TO BE PAINTED IN ALL SPACES DENOTED ON PLANS EITHER BLUE ON A WHITE BACKGROUND OR WHITE ON A BLUE BACKGROUND

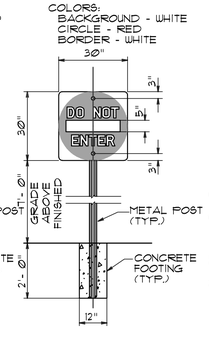
INTERNATIONAL ACCESSIBLE SYMBOL DETAIL
NTS



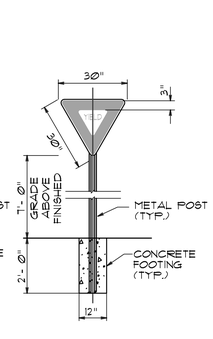
TYPICAL HANDICAP PARKING SIGN
NTS



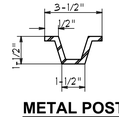
STOP SIGN
NTS



DO NOT ENTER SIGN
NTS

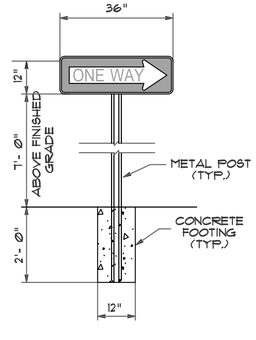


YIELD SIGN
NTS



METAL POST SECTION

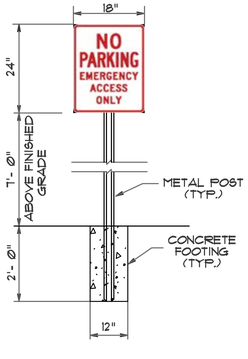
COLORS:
LEGEND - BLACK
BACKGROUND - BLACK
ARROW - WHITE



MUTCD R6-1R "ONE WAY" SIGN

R6-1L-36
R6-1R-36

COLORS:
LEGEND - RED
BACKGROUND - WHITE
TEXT - RED



EMERGENCY ACCESS ONLY SIGN

Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

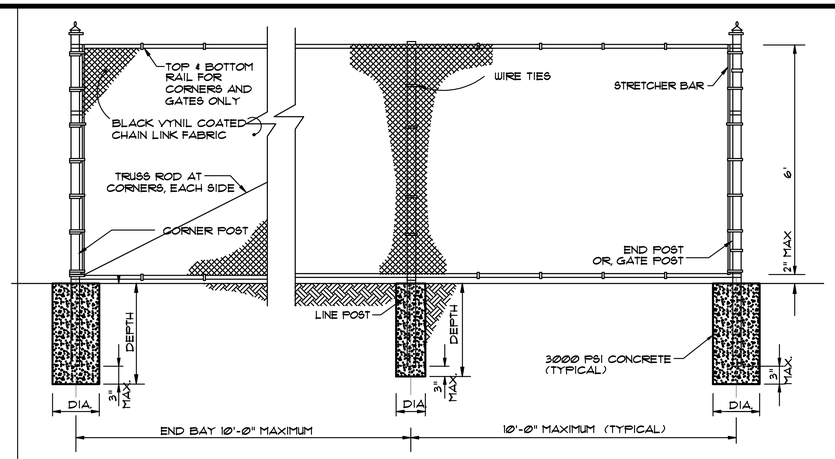
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21971 RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

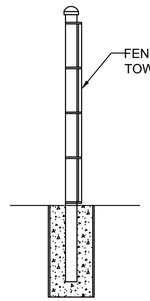
No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCS
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: SITE DETAILS
SHEET NO: C301



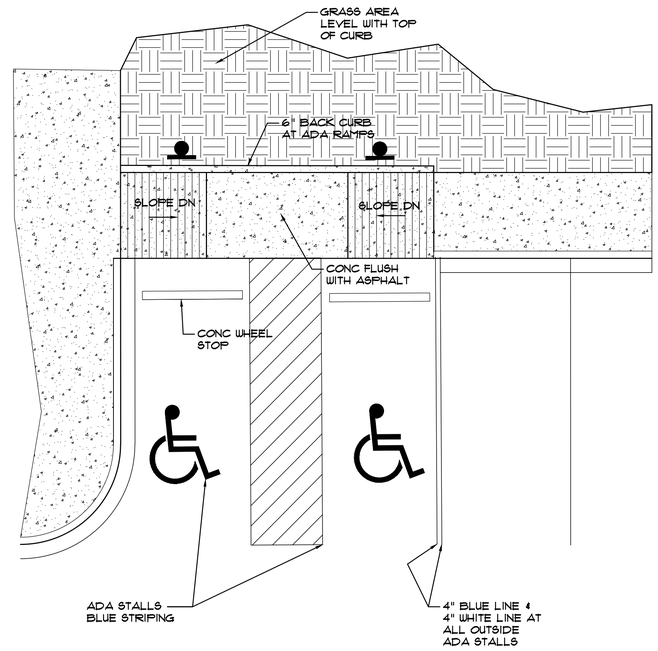
CHAIN LINK FENCE
NTS



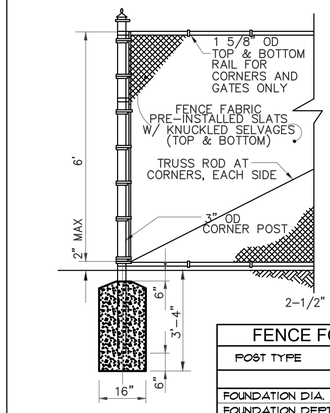
SIDE VIEW
NTS

FENCE FOUNDATION SCHEDULE			
POST TYPE	LINE	END	GATE
6FT GALVANIZED OR BLACK VINYL COATED CHAINLINK FENCE			
FOUNDATION DIA.	10"	16"	16"
FOUNDATION DEPTH	30"	30"	30"

NOTES:
BLACK VINYL COATED OPTION
1. ALL FENCE FABRIC TO BE BLACK VINYL COATED.
2. FENCE FABRIC TO BE PLACED WITH FINISHED SIDE FACING THE SCHOOL.
3. THE FENCE IS TO BE INSTALLED 2'-0" OFF THE BACK EDGE OF THE RETAINING WALL TOP CAP.



ADA PARKING AND RAMPS WITH BACK CURB
NTS

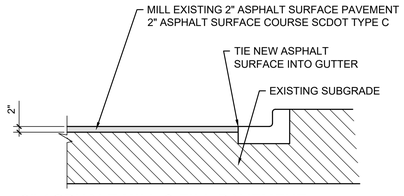


NOTES:
1. PRIVACYLINK 3¼" x 5" MESH WITH SUPREME PRIVACY SLATS
2. FENCE COLOR: CEDAR TONE.

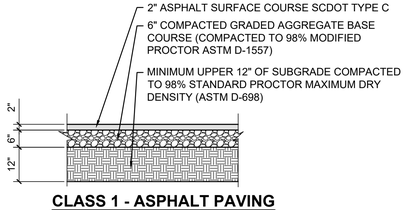
FENCE FOUNDATION SCHEDULE			
POST TYPE	LINE	END	GATE
6FT PRIVACY FENCE			
FOUNDATION DIA.	16"	22"	22"
FOUNDATION DEPTH	36"	36"	36"

CHAIN LINK FENCE FOUNDATION SCHEDULE
NTS

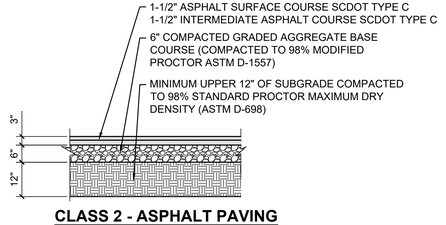
6FT TALL PRIVACY FENCE
NTS



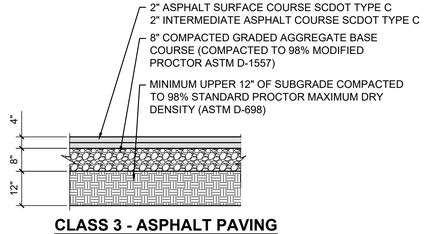
2" ASPHALT MILL & FILL PAVEMENT



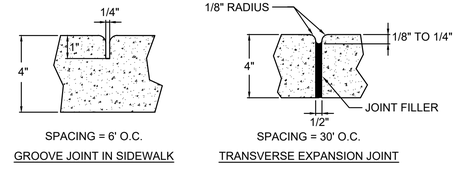
CLASS 1 - ASPHALT PAVING
(<50 cars/day)

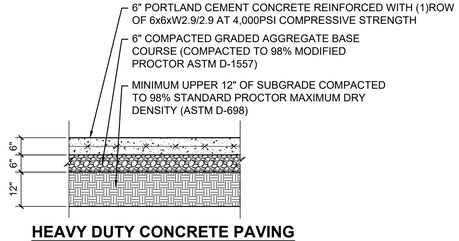


CLASS 2 - ASPHALT PAVING
(<5 trucks/day)

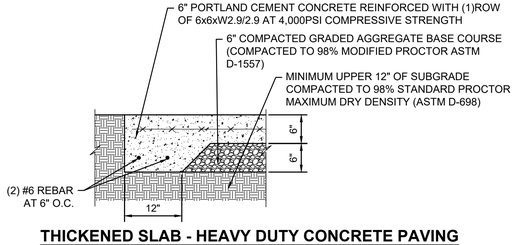


CLASS 3 - ASPHALT PAVING
(<65 trucks/day)

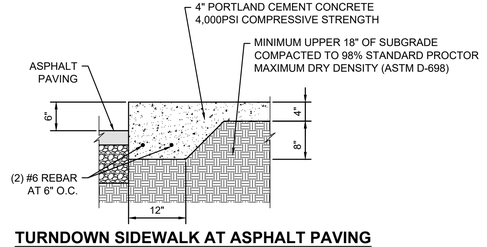




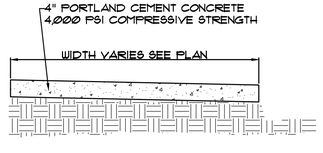
HEAVY DUTY CONCRETE PAVING
NTS



THICKENED SLAB - HEAVY DUTY CONCRETE PAVING
NTS



TURNDOWN SIDEWALK AT ASPHALT PAVING
NTS



CONCRETE SIDEWALK
NTS

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

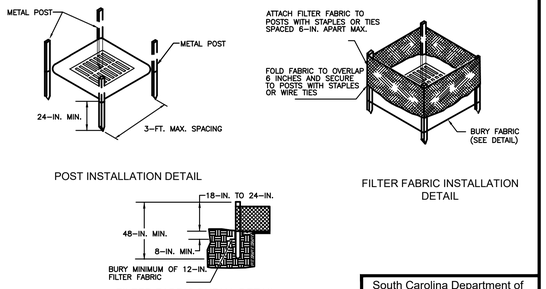
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21971 RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCS
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: SITE DETAILS
SHEET NO: C302



IP **SILT-BOX INLET PROTECTION DETAIL**

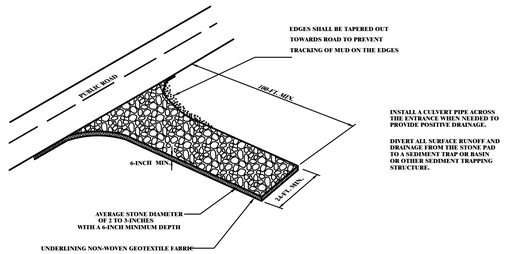
NTS

South Carolina Department of Health and Environmental Control

TYPE A – FILTER FABRIC INLET PROTECTION

STANDARD DRAWING NO: SC–07 Page 1 of 2

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE



CE **TEMPORARY GRAVEL ENTRANCE / EXIT DRIVE**

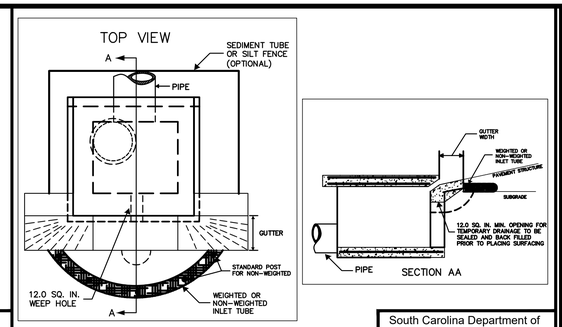
NTS

South Carolina Department of Health and Environmental Control

STABILIZED CONSTRUCTION ENTRANCE

STANDARD DRAWING NO: SC–06 Page 1 of 3

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE



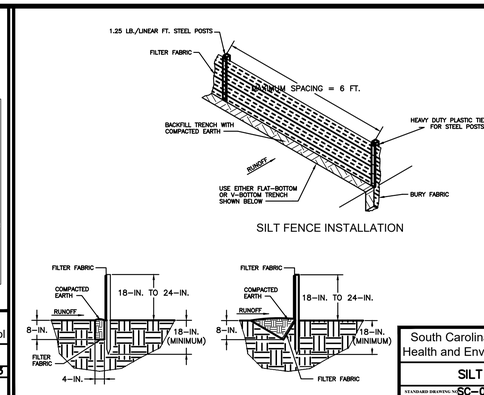
ST **SEDIMENT INLET TUBE**

NTS

South Carolina Department of Health and Environmental Control

TYPE F INLET TUBES

STANDARD DRAWING NO: SC–11 Page 1 of 3



South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO: SC–03 Page 1 of 2

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE

SILT FENCE DETAIL

When and Where to Use It

Silt fence is applicable in areas:

Where the maximum sheet or overland flow path length to the fence is 100–feet.
Where the maximum slope steepness (normal [perpendicular] to fence line) is 2H:1V.
That do not receive concentrated flows greater than 0.5 cfs.

Do not place silt fence across channels or use it as a velocity control BMP.

Material

Steel Posts
Use 48–inch long steel posts that meet the following minimum physical requirements:
Composed of high strength steel with minimum yield strength of 50,000 psi.
Have a standard "T" section with a nominal face width of 1.38–inches and nominal "T" length of 1.48–inches.
Weigh 1.25 pounds per foot (± 8%).
Have a soil stabilization plate with a minimum cross section area of 17–square inches attached to the steel posts.
Painted with a water based baked enamel paint.

Use steel posts with a minimum length of 4–feet, weighing 1.25 pounds per linear foot (± 8%) with projections to aid in fastening the fabric. Except when heavy clay soils are present on site, steel posts will have a metal soil stabilization plate welded near the bottom such that when the post is driven to the proper depth, the plate will be below the ground level for added stability.
The soil plates should have the following characteristics:
Be composed of minimum 15 gauge steel.
Have a minimum cross section area of 17–square inches.

Geotextile Filter Fabric
Filter fabric is:
Composed of fibers consisting of long chain synthetic polymers composed of at least 85% by weight of polyolefins, polyesters, or polyamides. Formed into a network such that the filaments or yarns retain dimensional stability relative to each other. Free of any treatment or coating which might adversely alter its physical properties after installation. Free of defects or flaws that significantly affect its physical and/or filtering properties. Cut to a minimum width of 36 inches.

Use only fabric appearing on SCDOT Approval Sheet #34 meeting the requirements of the most current edition of the SCDOT Standard Specifications for Highway Construction.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO: SC–03 Page 2 of 3

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE

SILT FENCE DETAIL

Installation
Excavate a trench approximately 6–inches wide and 6–inches deep when placing fabric by hand. Place 12–inches of geotextile fabric into the 6–inch deep trench, extending the remaining 6–inches towards the upslope side of the trench. Backfill the trench with soil or gravel and compact.Bury 12–inches of fabric into the ground when pneumatically installing silt fence with a slicing method. Purchase fabric in continuous rolls and cut to the length of the barrier to avoid joints. When joints are necessary, wrapped the fabric together at a support post with both ends fastened to the post, with a 6–inch minimum overlap. Install posts to a minimum depth of 24–inches. Install posts a minimum of 1– to 2– inches above the fabric, with no more than 3–feet of the post above the ground. Space posts to maximum 6–feet centers. Attach fabric to wood posts using staples made of heavy–duty wire at least 1½–inch long, spaced a maximum of 6–inches apart. Staple a 2–inch wide lathe over the filter fabric to securely fasten it to the upslope side of wooden posts. Attach fabric to the steel posts using heavy–duty plastic ties that are evenly spaced and placed in a manner to prevent sagging or tearing of the fabric. In call cases, ties should be affixed in no less than 4 places. Install the fabric a minimum of 24–inches above the ground. When necessary, the height of the fence above ground may be greater than 24–inches. In tidal areas, extra silt fence height may be required. The post height will be twice the exposed post height. Post spacing willremain the same and extra height fabric will be 4–, 5–, or 6–feet tall. Locate silt fence checks every 100 feet maximum and at low points. Install the fence perpendicular to the direction of flow and place the fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.

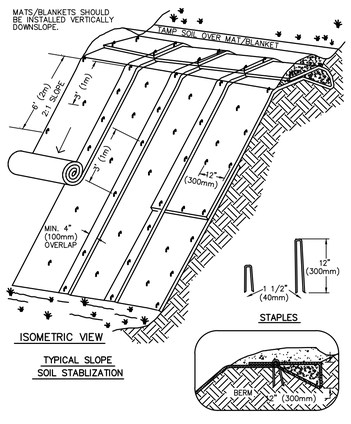
Inspection and Maintenance
Inspect every seven calendar days and within 24–hours after each rainfall event that produces ¼–inches or more of precipitation. Check for sediment buildup and fence integrity. Check where runoff has eroded a channel beneath the fence, or where the fence has sagged or collapsed by fence overtopping. If the fence fabric tears, begins to decompose, or in any way becomes ineffective, replace the section of fence immediately. Remove sediment accumulated along the fence when it reaches 1/3 the height of the fence, especially if heavy rains are expected. Remove trapped sediment from the site or stabilize it on site. Remove silt fence within 30 days after final stabilization is achieved or after temporary best management practices (BMPs) are no longer needed. Permanently stabilize disturbed areas resulting from fence removal.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO: SC–03 Page 3 of 3

APPROVED BY: _____ SCDHEC — AUGUST, 2005 DATE



1. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.
2. GRADE AND SHAPE AREA OF INSTALLATION.
3. REMOVE ALL ROCKS, CLODS, VEGETATIVE OR OTHER OBSTRUCTION SO THAT THE INSTALLED BLANKETS OR MATS WILL HAVE DIRECT CONTACT WITH THE SOIL.
4. PREPARE SEEDBED BY LOOSENING 2 TO 3 INCHES (50–75MM) OF TOPSOIL ABOVE FINAL GRADE.
5. INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.
6. SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND RE=VEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATION. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEEDED.
7. WHERE SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.
8. ANCHORING: U–SHAPED WIRE STAPLES, METAL GEOTEXTILE STAKE PINS, OR TRIANGULAR WOODEN STAKES CAN BE USED TO ANCHOR MATS TO THE GROUND SURFACE. WIRE STAPLES SHOULD BE A MINIMUM OF 11 GAUGE. METAL STAKE PINS SHOULD BE 3/16 IN (5MM) DIA STEEL WITH A 1–1/2IN (38MM) STEEL WASHER AT THE HEAD OF THE PIN. WIRE STAPLES AND METAL STAKES SHOULD BE DRIVEN FLUSH TO THE SOIL SURFACE. ALL ANCHORS SHOULD BE 6–8 INCHES (0.15–0.2M) LONG AND HAVE SUFFICIENT GROUND PENETRATION TO RESIST PULLOUT. LONGER ANCHORS MAY BE REQUIRED FOR LOOSE SOILS.
9. INSTALLATION ON SLOPES: BEGIN AT THE TOP OF THE SLOPE AND ANCHOR ITS BLANKET IN A 6x6 IN (0.15x0.15M) TRENCH. BACK FILL TRENCH AND TAMP EARTH FIRMLY.
10. UNROLL BLANKET DOWNSLOPE IN THE DIRECTION OF THE WATER FLOW.
11. THE EDGES OF ADJACENT PARALLEL ROLLS MUST BE OVERLAPPED 2–3 IN (50–75MM) AND BE STAPLED EVERY 3 FEET (0.9M) APART.
12. LAY BLANKETS LOOSELY AND MAINTAIN DIRECT CONTACT WITH THE SOIL – DO NOT STRETCH.
13. BLANKETS SHALL BE STAPLED SUFFICIENTLY TO ANCHOR BLANKET AND MAINTAIN CONTACT WITH THE SOIL. STAPLES SHALL BE PLACED DOWN THE CENTER AND STAGGERED WITH THE STAPLES PLACED ALONG THE EDGES. STEEP SLOPES, 1:1 – 2:1, REQUIRE 2 STAPLES PER SQUARE YARD. MODERAGE SLOPES 2:1 – 3:1 REQUIRES 1–2 STAPLES PER SQUARE YARD (IE 1 STAPLE 3' O.C.).GENTLE SLOPES REQUIRE 1 STAPLE PER SQUARE YARD.
14. INSPECT AND MAINTENANCE: ALL BLANKET AND MATS SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION.
15. INSPECT INSTALLATION AFTER SIGNIFICANT RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY FAILURE SHOULD BE REPAIRED IMEDIATELY.
16. IF WASHOUT OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING THE DAMAGE TO THE SLOPE OR DRAINAGEWAY.

ECB **EROSION CONTROL BLANKET**

NTS

Jumper Carter Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21971 RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ

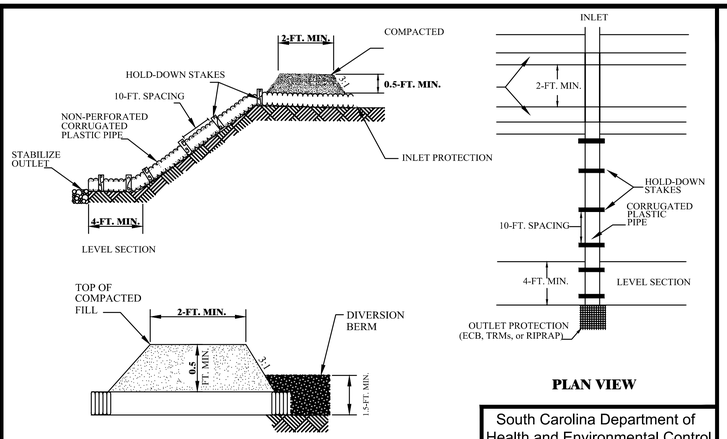
CHECKED BY: JCS

COMM NO: 2306

DATE: JAN 10, 2023

SHEET TITLE: EROSION CONTROL DETAILS

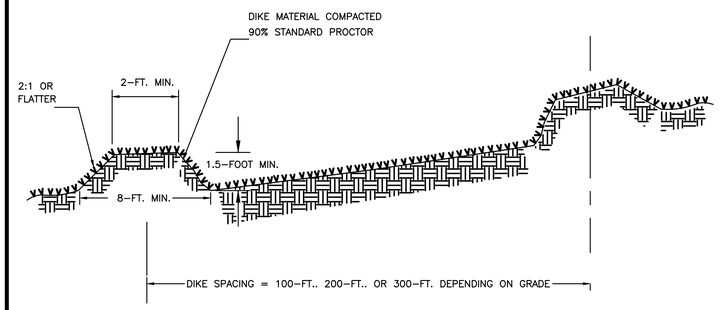
SHEET NO: C303



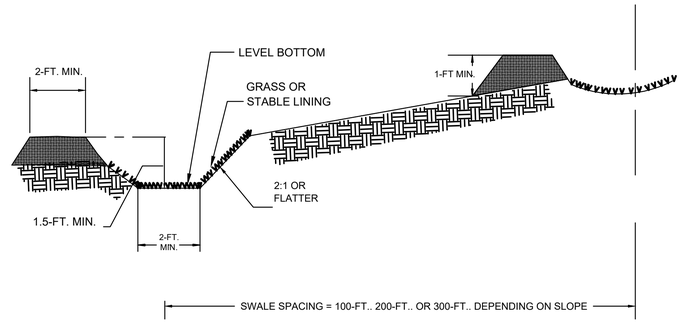
PLAN VIEW

TYPICAL PIPE SLOPE DRAIN LAYOUT

South Carolina Department of Health and Environmental Control	
PIPE SLOPE DRAIN	
STANDARD DRAWING NO.	RC-01 PAGE 1 of 2
NOT TO SCALE	JULY 31, 2005 DATE



South Carolina Department of Health and Environmental Control	
DIVERSION DIKE OR BERM	
STANDARD DRAWING NO.	RC-02 PAGE 1 of 2
NOT TO SCALE	JULY 31, 2005 DATE



South Carolina Department of Health and Environmental Control	
DIVERSION SWALE	
STANDARD DRAWING NO.	RC-03 Page 1 of 2
NOT TO SCALE	JULY 31, 2005 DATE

PIPE SLOPE DRAIN

When and Where to Use It

Pipe slope drains are used when it is necessary for water to flow down a slope without causing erosion, especially before a slope has been stabilized or
before permanent drainage structures are installed.

Installation:

Typical pipe slope drains are made of non–perforated corrugated plastic pipe.

Slope drain sections should be securely fastened together, have gasket watertight fittings, and be securely anchored into the soil.

Diversion berms or dikes should direct runoff to slope drains. The minimum depth of these dikes or berms should be 1.5–feet. The height of the
berm around the pipe inlet should be a minimum of 1.5–feet high and at least 0.5–feet higher than the top of the pipe. The berm at the pipe
inlet shall be compacted around the pipe. The area around the inlet shall be properly stabilized with ECBs, TRMs, riprap or other applicable
stabilization techniques.

The area below the outlet must be properly stabilized with ECBs, TRMs, riprap or other applicable stabilization technique.

If the pipe slope drain is conveying sediment–laden water, direct all flows into the sediment trapping facility.

Permanent slope drains should be buried beneath the soil surface a minimum 1.5–feet.

Inspection and Maintenance:

Inspect pipe slope drain inlet and outlet points every seven (7) calendar days and within 24–hours after each rainfall event that produces
½–inches or more of precipitation.

The inlet should be free from undercutting, and no water should be going around the point of entry. If there are problems, the headwall should be reinforced with compacted earth or sandbags. The outlet point should be free of erosion and installed with appropriate outlet protection.

All temporary pipe slope drains should be removed within 30 days after final site stabilization is achieved or after the temporary BMP is no longer needed. Disturbed soil areas resulting from removal should be permanently stabilized.

South Carolina Department of Health and Environmental Control	
PIPE SLOPE DRAIN	
STANDARD DRAWING NO.	RC-01 PAGE 2 of 2
GENERAL NOTES	JULY 31, 2005 DATE

DIVERSION DIKES AND BERMS

Installation

Slopes shall be stabilized immediately using vegetation, sod, and erosion control blankets or turf reinforcement mats to prevent erosion.

The upslope side of the dike should provide positive drainage so no erosion occurs at the outlet. Provide energy dissipation measures as necessary.
Sediment–laden runoff must be released through a sediment trapping facility.

Sediment–laden runoff shall be directed to a sediment trapping facility.

Minimize construction traffic over diversion dikes and berms.

Inspection and Maintenance:

Dikes and Berms should be inspected, every seven (7) calendar days and within 24–hours after each rainfall event that produces ½–inches or more
of precipitation and repairs made as necessary.

Damage caused by construction traffic or other activity must be repaired before the end of each working day.

South Carolina Department of Health and Environmental Control	
DIVERSION DIKE OR BERM	
STANDARD DRAWING NO.	RC-02 PAGE 2 of 2
GENERAL NOTES	JULY 31, 2005 DATE

DIVERSION SWALE

Installation

The bottom width should be a minimum of 2–feet, and the bottom should be level.

The depth should be a minimum of 1.5–feet and the side slopes should be 2H:1V or flatter.

The maximum grade shall be 5%, with positive drainage to a suitable outlet.

Slopes shall be stabilized immediately using vegetation, sod, and erosion control blankets or turf reinforcement mats to prevent erosion.

The upslope side of the swale should provide positive drainage so no erosion occurs at the outlet. Provide energy dissipation measures as necessary.

Sediment–laden runoff shall be directed to a sediment trapping facility.

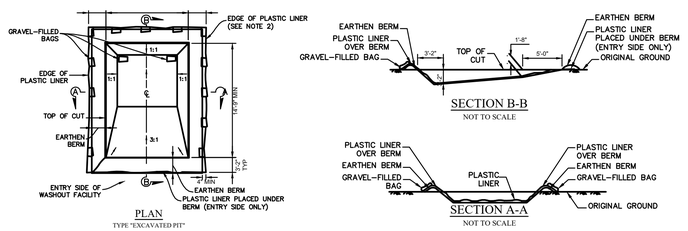
Inspection and Maintenance:

Swales should be inspected, every seven (7) calendar days and within 24–hours after each rainfall event that produces ½–inches or more of
precipitation and repairs made as necessary.

Damage caused by construction traffic or other activity must be repaired before the end of each working day.

South Carolina Department of Health and Environmental Control	
DIVERSION SWALE	
STANDARD DRAWING NO.	RC-03 PAGE 2 of 2
GENERAL NOTES	JULY 31, 2005 DATE

EXCAVATED PIT CONCRETE WASHOUT



LETTERS A MINIMUM OF 5" IN HEIGHT

CONCRETE WASHOUT

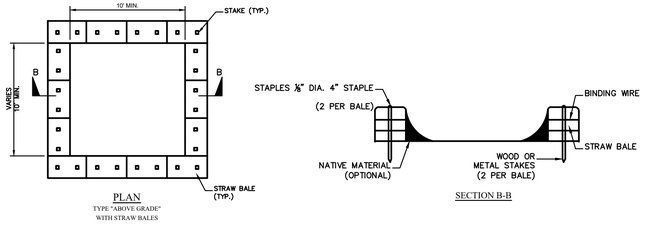
CONCRETE WASHOUT SIGN DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

South Carolina Department of Health and Environmental Control	
CONCRETE WASHOUT	
EXCAVATED PIT	
STANDARD DRAWING NO.	RC-08 PAGE 1 of 1
NOT TO SCALE	FEBRUARY 2014 DATE

STRAW BALE BARRIER CONCRETE WASHOUT



LETTERS A MINIMUM OF 5" IN HEIGHT

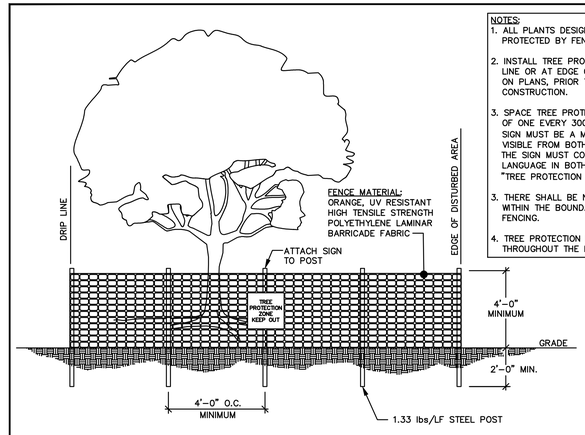
CONCRETE WASHOUT

CONCRETE WASHOUT SIGN DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

South Carolina Department of Health and Environmental Control	
CONCRETE WASHOUT	
STRAW BALES OR ABOVE GROUND	
STANDARD DRAWING NO.	RC-07 PAGE 1 of 1
NOT TO SCALE	FEBRUARY 2014 DATE



NOTES:

1. ALL PLANTS DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING, AS ILLUSTRATED.
2. INSTALL TREE PROTECTION FENCE AT TREE DRIP LINE OR AT EDGE OF DISTURBED AREA, AS SHOWN ON PLANS, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. SPACE TREE PROTECTION ZONE SIGNS A MINIMUM OF ONE EVERY 300 FEET. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 2' x 2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE. THE SIGN MUST CONTAIN THE FOLLOWING LANGUAGE IN BOTH ENGLISH & SPANISH: "TREE PROTECTION ZONE, KEEP OUT".
3. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
4. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

TREE PROTECTION FENCE

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21971 RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ

CHECKED BY: JCS

COMM NO: 2306

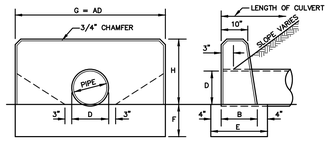
DATE: JAN 10, 2023

SHEET TITLE:

EROSION CONTROL DETAILS

SHEET NO:

C304



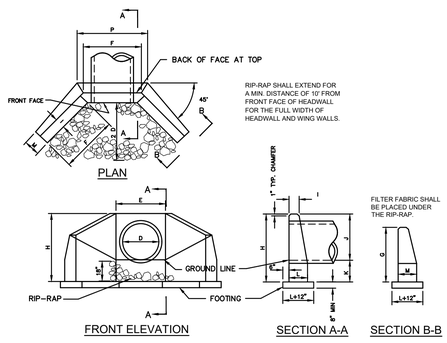
FRONT ELEVATION END ELEVATION

DIMENSIONS							QUANTITIES FOR ONE CONCRETE PIPE			
OPENING		WALL		FOOTING			CLASS "B" CONCRETE			
D	AREA SQ. FT.	G	H	B	E	F	CUBIC FEET PER FOOT WALL	TOTAL FOOT	TOTAL CU. FT.	TOTAL CU. YD.
12"	0.8	4'-0"	2'-0"	1'-2"	1'-10"	1'-0"	6.5	7.3	13.8	0.51
15"	1.2	5'-0"	2'-3"	1'-2"	1'-10"	1'-2"	9.0	10.7	19.7	0.73
18"	1.8	6'-0"	2'-6"	1'-3"	1'-11"	1'-3"	12.5	14.4	26.9	0.99
24"	3.1	8'-0"	3'-0"	1'-4"	2'-0"	1'-4"	20.2	21.3	41.5	1.54

HEADWALL DETAIL FOR PIPES 12" TO 24" IN DIAMETER

NTS

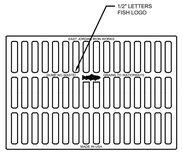
2:1 SLOPE											
D	E	G	H	I	J	K	L	M	N	P	F
30"	4'-0"	4'-0"	5'-6"	12"	3'-6"	24"	1'-4"	18"	2'-0"	5'-4"	4'-3"
36"	4'-6"	4'-3"	6'-0"	12"	4'-0"	24"	1'-8"	18"	2'-3"	5'-11"	5'-0"
42"	5'-0"	4'-6"	6'-6"	12"	4'-6"	24"	1'-10"	18"	2'-6"	6'-6"	5'-9"
48"	5'-6"	4'-9"	7'-0"	12"	5'-0"	24"	2'-0"	18"	2'-9"	7'-2"	6'-6"
54"	6'-0"	5'-0"	7'-6"	12"	5'-6"	24"	2'-2"	18"	3'-0"	7'-10"	7'-3"
60"	6'-6"	5'-3"	8'-0"	12"	6'-0"	24"	2'-4"	18"	3'-3"	8'-5"	8'-0"
72"	7'-6"	5'-9"	9'-0"	12"	7'-0"	24"	2'-8"	18"	3'-9"	9'-9"	9'-6"
84"	8'-6"	6'-3"	10'-0"	12"	8'-0"	24"	3'-0"	18"	4'-3"	11'-0"	11'-0"



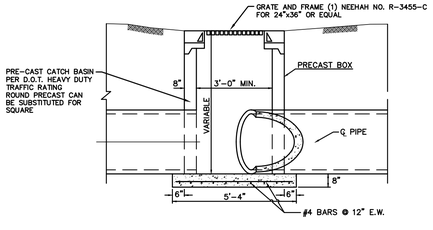
FRONT ELEVATION SECTION A-A SECTION B-B

CONCRETE HEADWALL DETAIL FOR PIPES 30" TO 84" IN DIAMETER

NTS

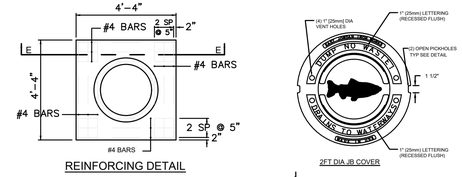


24x36 STORM GRATE



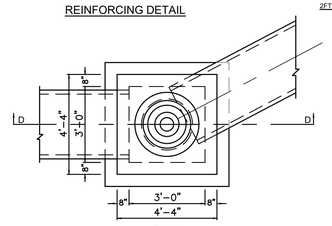
24x36 GRATE & FRAME CATCH BASIN

NTS

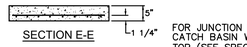


REINFORCING DETAIL

2FT DIA JB COVER

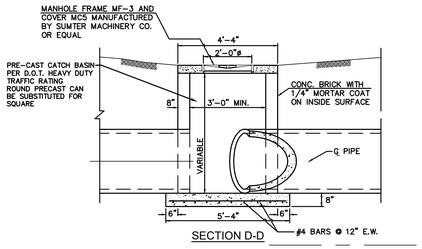


PLAN



SECTION E-E

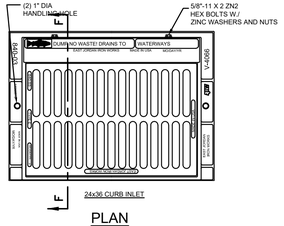
FOR JUNCTION BOX, BUILD CATCH BASIN WITH CONCRETE TOP (SEE SPECIFICATION T3.08 IN SPECIFICATIONS.)



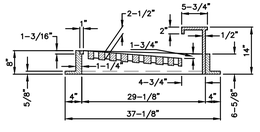
SECTION D-D

JUNCTION BOX DETAIL

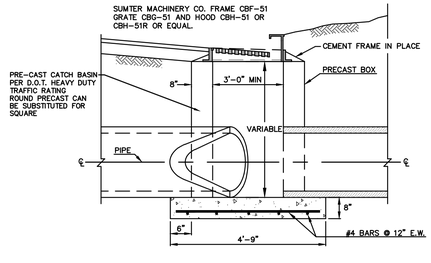
NTS



PLAN



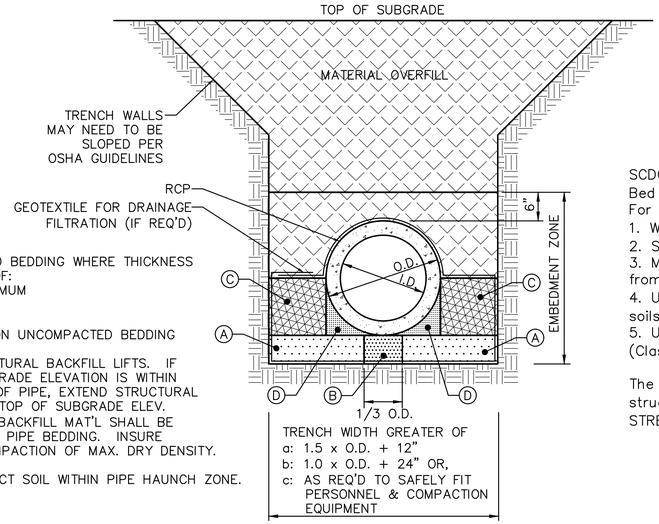
SECTION F-F



GRATE, FRAME AND HOOD CATCH BASIN DETAIL

NTS

PIPE TRENCHES PER SCDOT SC-M-714 "SUPPLEMENTAL TECHNICAL SPECIFICATIN FOR PERMANENT PIPE CULVERTS" DATED APRIL 6, 2009.



(A) UNCOMPACTED BEDDING WHERE THICKNESS IS GREATER OF:
- a: 6IN MINIMUM
- b: O.D./10

(B) PLACE PIPE ON UNCOMPACTED BEDDING

(C) PLACE STRUCTURAL BACKFILL LIFTS. IF TOP OF SUBGRADE ELEVATION IS WITHIN 3FT OF TOP OF PIPE, EXTEND STRUCTURAL BACKFILL TO TOP OF SUBGRADE ELEV. STRUCTURAL BACKFILL MAT'L SHALL BE THE SAME AS PIPE BEDDING. INSURE MIN. 95% COMPACTION OF MAX. DRY DENSITY.

(D) FULLY COMPACT SOIL WITHIN PIPE HAUNCH ZONE.

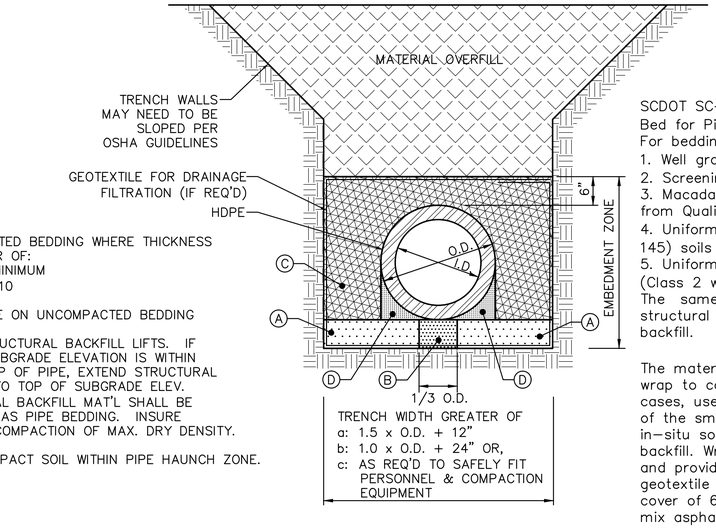
SCDOT SC-M-714 Section 1.3.3
Bed for Pipe (RCP)
For bedding material, use either:
1. Well graded A-1 (AASHTO M 145) soils
2. Screenings meeting A-1 (AASHTO M 145)
3. Macadam or Marine Limestone Graded aggregate base from Qualified Product List 2
4. Uniformly graded, coarse grained A-3 (AASHTO M 145) soils (Class 1 wrapped)
5. Uniformly graded angular stone as large as #5 stone (Class 2 wrapped, vibrated)

The same material must be used for bedding and structural backfill unless CLSM, "CONTROLLED LOW STRENGTH MATERIAL" is used for structural backfill.

RCP PIPE BEDDING

NTS

PIPE TRENCHES PER SCDOT SC-M-714 "SUPPLEMENTAL TECHNICAL SPECIFICATIN FOR PERMANENT PIPE CULVERTS" DATED APRIL 6, 2009.



(A) UNCOMPACTED BEDDING WHERE THICKNESS IS GREATER OF:
- a: 6IN MINIMUM
- b: O.D./10

(B) PLACE PIPE ON UNCOMPACTED BEDDING

(C) PLACE STRUCTURAL BACKFILL LIFTS. IF TOP OF SUBGRADE ELEVATION IS WITHIN 3FT OF TOP OF PIPE, EXTEND STRUCTURAL BACKFILL TO TOP OF SUBGRADE ELEV. STRUCTURAL BACKFILL MAT'L SHALL BE THE SAME AS PIPE BEDDING. INSURE MIN. 95% COMPACTION OF MAX. DRY DENSITY.

(D) FULLY COMPACT SOIL WITHIN PIPE HAUNCH ZONE.

SCDOT SC-M-714 Section 2.3.3
Bed for Pipe (HDPE)
For bedding material, use either:
1. Well graded A-1 (AASHTO M 145) soils
2. Screenings meeting A-1 (AASHTO M 145)
3. Macadam or Marine Limestone Graded aggregate base from Qualified Product List 2
4. Uniformly graded, coarse grained A-3 (AASHTO M 145) soils (Class 1 wrapped)
5. Uniformly graded angular stone as large as #5 stone (Class 2 wrapped, vibrated)

The same material must be used for bedding and structural backfill unless CLSM is used for structural backfill.

The materials marked as (wrapped) require geotextile wrap to control migration of fines into open voids. In all cases, use a geotextile that prevents the transmission of the smallest soil particles present in both the in-situ soil and the soil used for bedding and structural backfill. Wrap the entire bedding and backfill envelope and provide a minimum overlap of 2 feet at all geotextile splices. For shallow installations, provide a cover of 6 inches of soil between geotextile and hot mix asphalt.

HDPE PIPE BEDDING

NTS

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

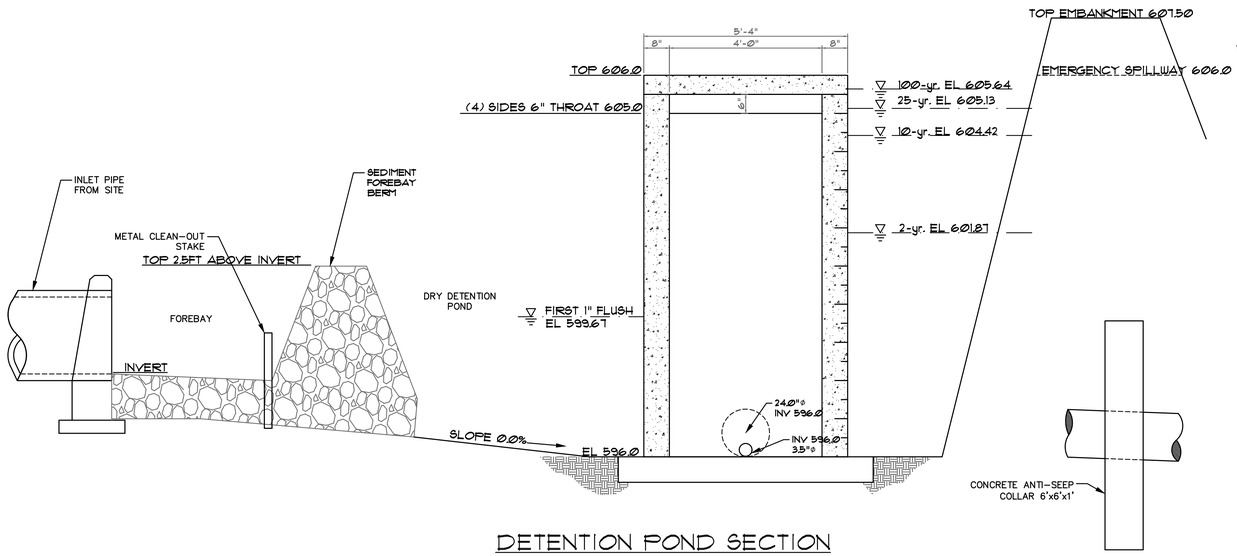
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21971 RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

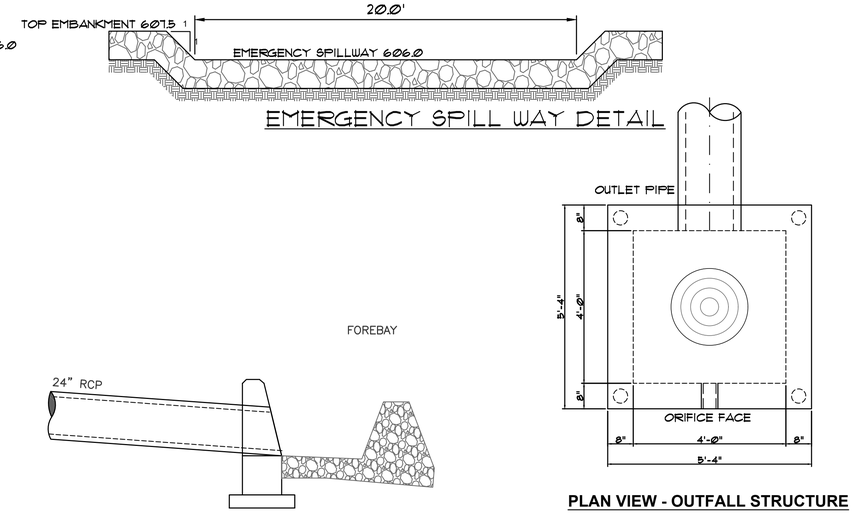
No	Description	Date
	PRICING DOCS	

DRAWN BY: RPJ
CHECKED BY: JCS
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: STORM DETAILS

SHEET NO: C305

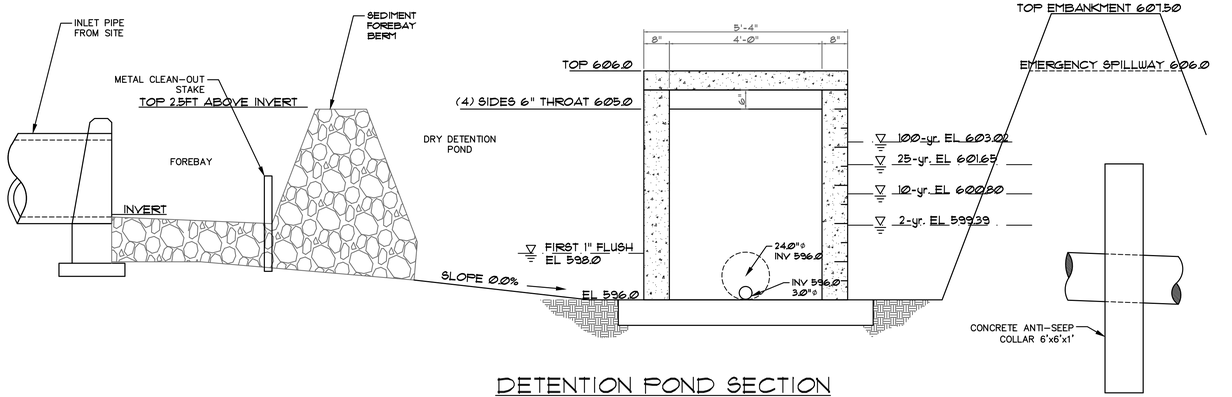


DETENTION POND SECTION

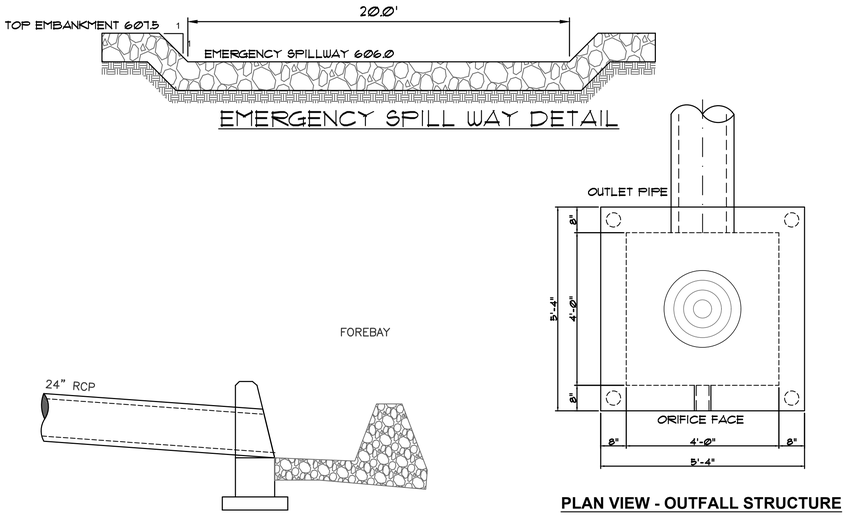


EMERGENCY SPILL WAY DETAIL

PLAN VIEW - OUTFALL STRUCTURE



DETENTION POND SECTION



EMERGENCY SPILL WAY DETAIL

PLAN VIEW - OUTFALL STRUCTURE

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON CIVIL ENGINEERING
No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
No. 21971
PROFESSIONAL ENGINEER
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ

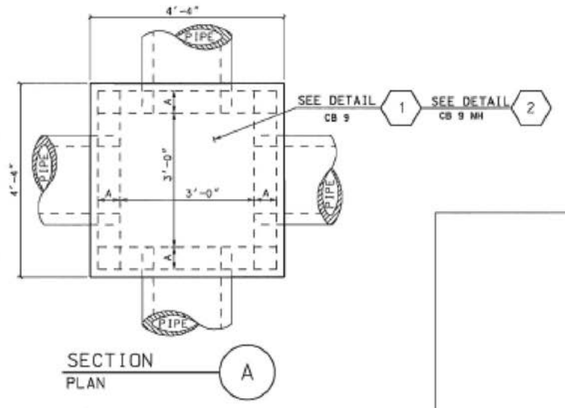
CHECKED BY: JCS

COMM NO: 2306

DATE: JAN 10, 2023

SHEET TITLE: STORM DETAILS

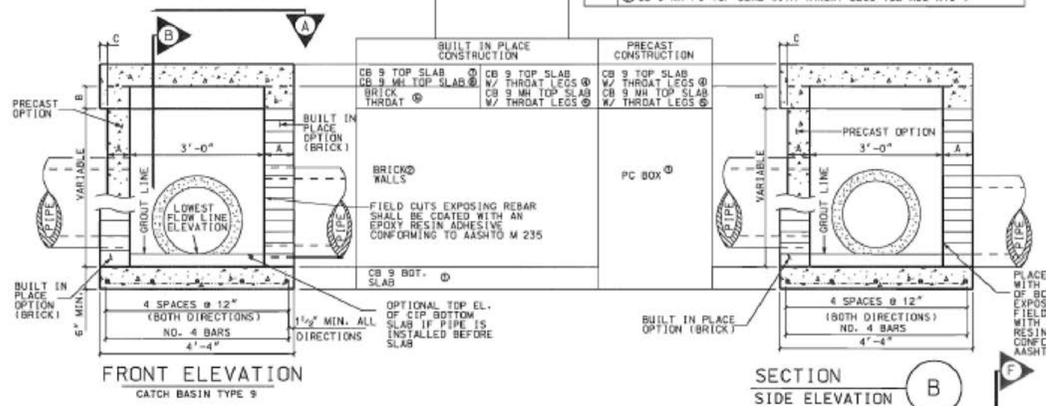
SHEET NO: C306



SECTION A
PLAN

CONTRACTOR MAY USE PRECAST OR BUILT IN PLACE CONSTRUCTION NOTED ABOVE OR COMBINE OPTIONS AS DESIRED.
SEE QUALIFIED PRODUCT LIST 14 FOR MANUFACTURERS OF PRECAST ITEMS.

BUILT IN PLACE	① CB 9 BOTTOM SLAB (PC OR CIP 52"X52"X6") AND ② BRICK WALLS (8") AND ④ CB 9 PC TOP SLAB WITH THROAT LEGS (52"X52"X10") OR ⑤ CB 9 MH PC TOP SLAB WITH THROAT LEGS (52"X52"X10")
ALTERNATE BUILT IN PLACE	① CB 9 BOTTOM SLAB (PC OR CIP 52"X52"X6") AND ② BRICK WALLS (8") AND ③ BRICK THROAT (2 COARSE) AND ⑦ CB 9 PC TOP SLAB WITHOUT THROAT LEGS (52"X52"X5") OR ⑧ CB 9 MH PC TOP SLAB WITHOUT THROAT LEGS (52"X52"X5")
PRECAST	③ PC DRAINAGE BOX CONFORMING TO 719-310-00 OR 719-305-00 (3'X3'X__) (MAX 12' DEPTH) AND ④ CB 9 PC TOP SLAB WITH THROAT LEGS (52"X52"X10") OR ⑤ CB 9 MH PC TOP SLAB WITH THROAT LEGS (52"X52"X10")

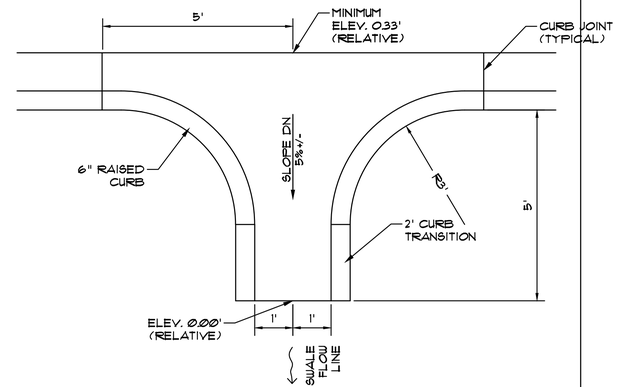


FRONT ELEVATION
CATCH BASIN TYPE 9

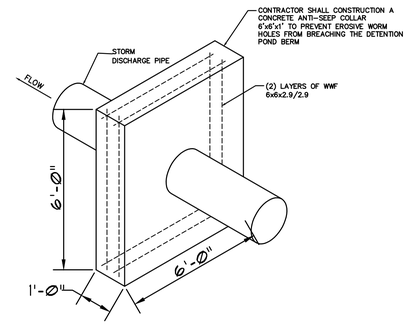
SECTION B
SIDE ELEVATION

PRECAST ITEMS
CB 9 BOTTOM SLAB 152"X52"X6"①
CB 9 TOP SLAB WITH THROAT LEGS (52"X52"X10")
CB 9 MH TOP SLAB WITH THROAT LEGS 152"X52"X10")
ALTERNATE CB 9 TOP SLAB WITHOUT THROAT LEGS 152"X52"X5")
SEE ALSO STD. DRAWING 719-310-00 & 719-305-00

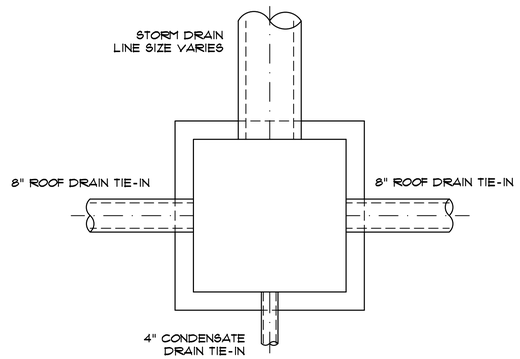
CB9 - TYPE 9
SCDOT CATCH BASIN DETAIL



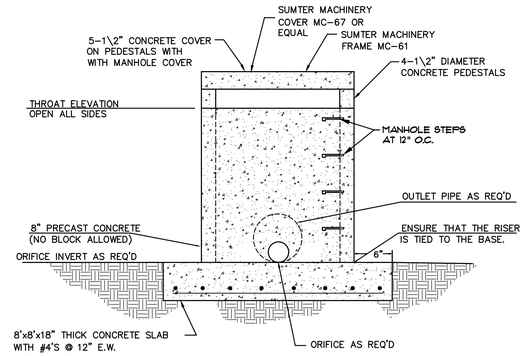
CONCRETE OPEN FLUME



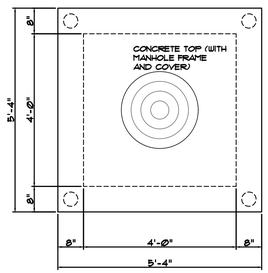
ANTI-SEEP COLLAR
NTS



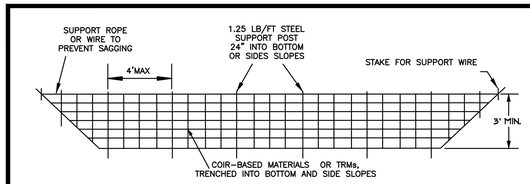
STORM BOX AT BUILDING



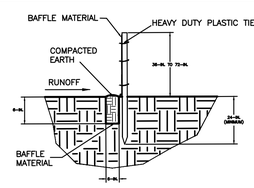
NOTES:
1) INSIDE DIMENSIONS OF BOX = 4'x4' MIN.



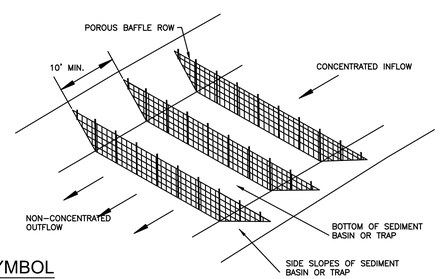
PERMANENT OUTLET STRUCTURE DETAIL (TYP)
NTS



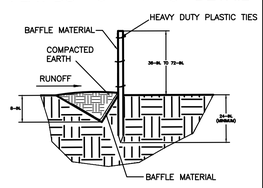
CROSS SECTION VIEW



FLAT-BOTTOM TRENCH DETAIL



PERSPECTIVE VIEW



V-SHAPED TRENCH DETAIL

PLAN SYMBOL

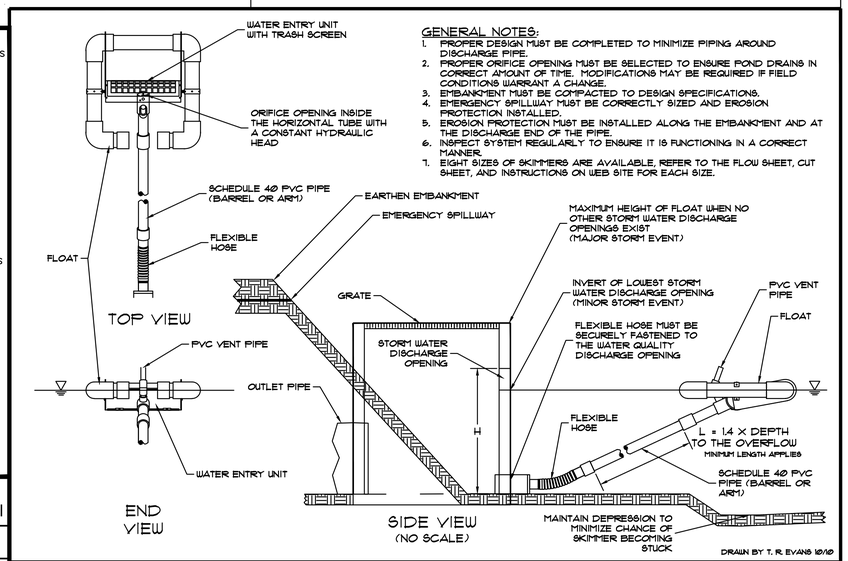
—PB—PB—

South Carolina Department of Health and Environmental Control

POROUS BAFFLES

STANDARD DRAWING NO. SC-13 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE



GENERAL NOTES:
1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

DRAWN BY T. R. EVANS 10/10

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH OUTLET STRUCTURE

J. W. FAIRCLOTH & SON INC.
WWW.FAIRCLOTHSKIMMER.COM
TELEPHONE: (919) 732-1244
FAX: (919) 732-1266
EMAIL: WARREN@FAIRCLOTHSKIMMER.COM

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21971 RICHARD P. JACKSON, II

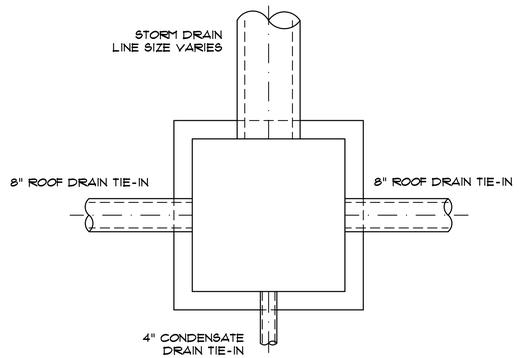
EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

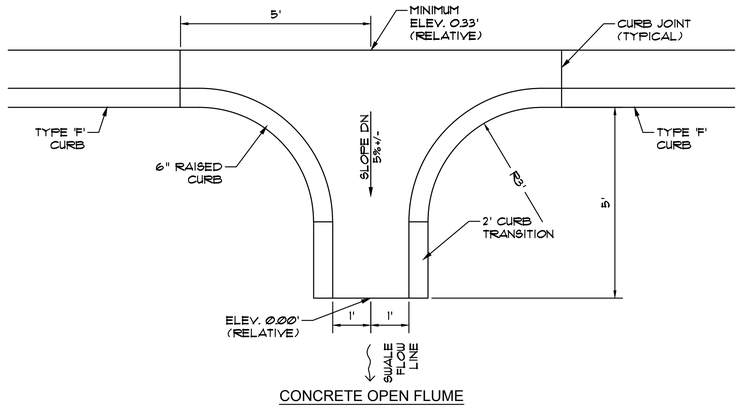
PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCS
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: STORM DETAILS

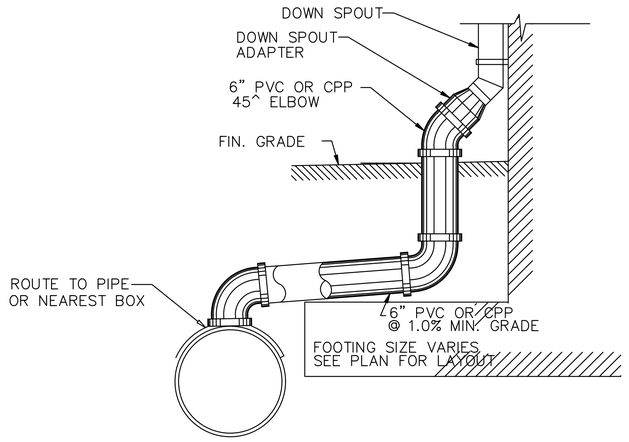
SHEET NO: C307



STORM BOX AT BUILDING

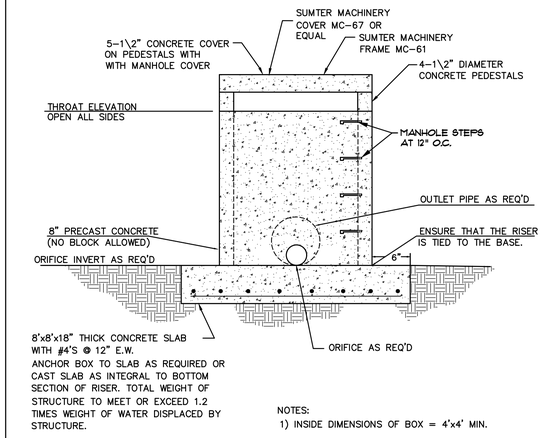


CONCRETE OPEN FLUME

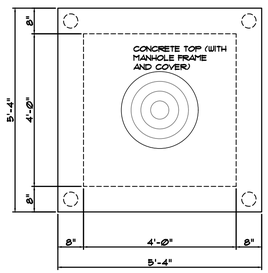


DOWNSPOUT BOOT DETAIL

NOT TO SCALE

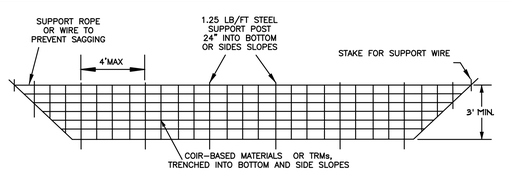


NOTES:
1) INSIDE DIMENSIONS OF BOX = 4'x4' MIN.

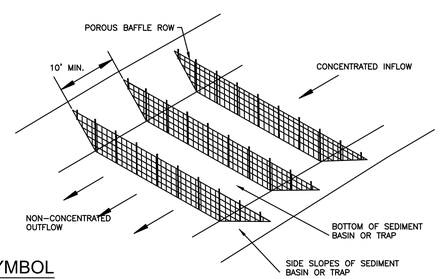


PERMANENT OUTLET STRUCTURE DETAIL (TYP)

NTS



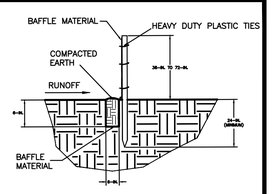
CROSS SECTION VIEW



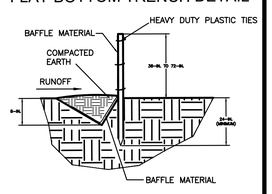
PERSPECTIVE VIEW

PLAN SYMBOL

—PB—PB—



FLAT-BOTTOM TRENCH DETAIL



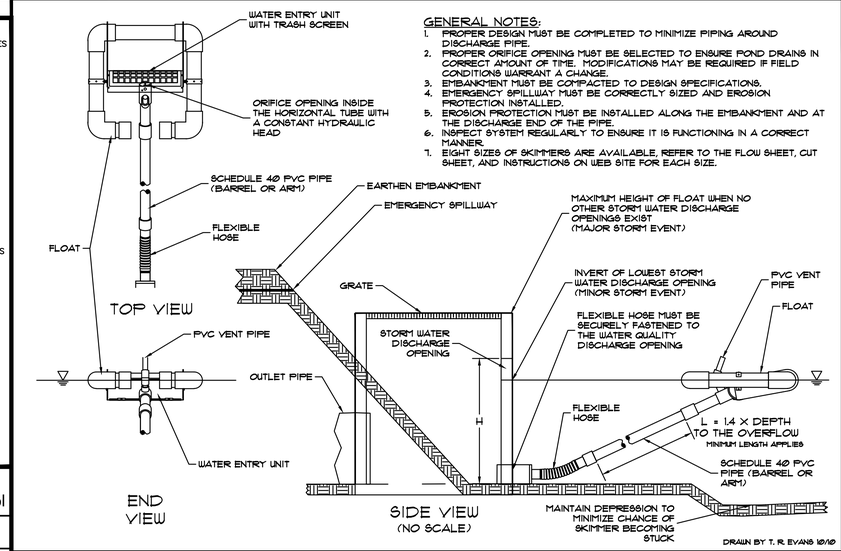
V-SHAPED TRENCH DETAIL

South Carolina Department of Health and Environmental Control

POROUS BAFFLES

STANDARD DRAWING NO. SC-13 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE



GENERAL NOTES:

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

DRAWN BY T. R. EVANS 10/10

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH OUTLET STRUCTURE

J. W. FAIRCLOTH & SON INC.
WWW.FAIRCLOTHSKIMMER.COM
TELEPHONE: (919) 732-1244
FAX: (919) 732-1266
EMAIL: WARREN@FAIRCLOTHSKIMMER.COM

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON
CIVIL
ENGINEERING
No. 6177
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
PROFESSIONAL
ENGINEER
No. 21971
RICHARD P. JACKSON, II

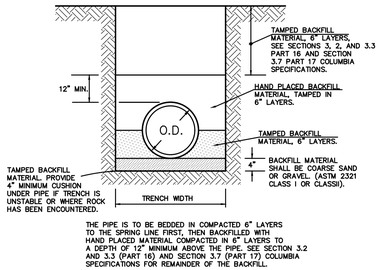
EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCS
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: STORM DETAILS

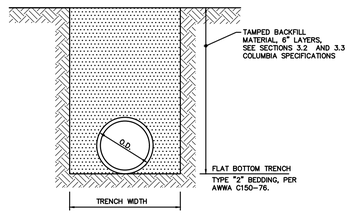
SHEET NO: C308



THE PIPE IS TO BE BEDDED IN COMPACTED 6" LAYERS TO THE SPRING LINE FIRST, THEN BACKFILLED WITH HAND PLACED MATERIAL COMPACTED IN 6" LAYERS TO A DEPTH OF 12" MINIMUM ABOVE THE PIPE. SEE SECTION 3.2 AND 3.3 (PART 16) AND SECTION 3.7 (PART 17) COLUMBIA SPECIFICATIONS FOR REMAINDER OF THE BACKFILL.

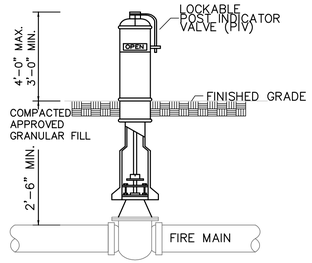
PVC PIPE BEDDING & BACKFILLING

NTS



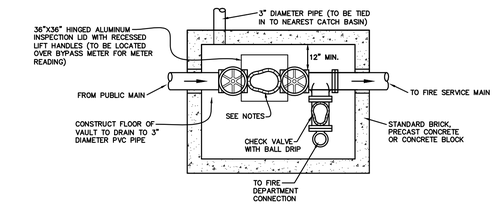
DUCTILE IRON PIPE BEDDING & BACKFILLING

NTS

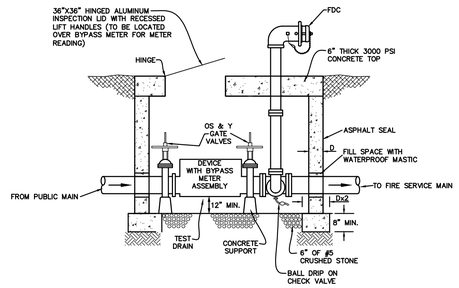


POST INDICATOR VALVE DETAIL

NTS



TOP VIEW OF LID



BACKFLOW PREVENTION VAULT (FOR FIRE LINE)

NTS

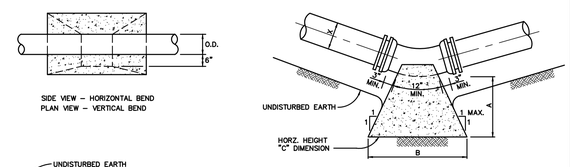
CONCRETE BLOCKING DIMENSIONS					
PIPE SIZE	X	A	B	C	MBA * 2 (SQ. FT.)	*1
(■ DENOTES BRANCH SIZE)		TEES				
■ 6"	2'-0"	2'-0"	1'-4"	2.7	0.13
■ 8"	2'-0"	2'-6"	1'-10"	4.6	0.20
■ 10"	2'-6"	3'-0"	2'-0"	7.0	0.39
■ 12"	2'-6"	4'-6"	2'-3"	10.1	0.54
■ 16"	3'-0"	6'-0"	2'-10"	17.0	1.08
■ 18"	3'-0"	7'-0"	3'-0"	21.0	1.33
■ 24"	4'-0"	10'-0"	3'-9"	37.5	3.17
■ 30"	5'-0"	12'-0"	4'-10"	58.0	5.96
		90° BENDS			
6"	2'-0"	2'-9"	1'-3"	3.4	0.16
8"	2'-0"	3'-3"	2'-0"	6.5	0.28
10"	2'-6"	4'-0"	2'-6"	10.0	0.53
12"	2'-6"	5'-0"	2'-9"	13.8	0.73
16"	3'-0"	6'-0"	4'-0"	24.0	1.50
18"	3'-0"	7'-4"	4'-0"	29.3	1.85
24"	4'-6"	12'-0"	4'-3"	53.0	4.94
30"	6'-0"	14'-0"	5'-10"	81.7	9.97
		45° BENDS			
6"	2'-0"	2'-0"	1'-0"	2.0	0.11
8"	2'-0"	2'-6"	1'-5"	3.5	0.17
10"	2'-6"	3'-6"	1'-6"	5.2	0.29
12"	2'-6"	4'-6"	1'-8"	7.5	0.40
16"	3'-0"	6'-0"	2'-2"	13.0	0.80
18"	3'-0"	6'-4"	2'-6"	15.8	1.10
24"	3'-0"	6'-9"	4'-3"	28.7	1.75
30"	3'-6"	9'-3"	4'-9"	43.9	3.22

CONCRETE BLOCKING DIMENSIONS					
PIPE SIZE	X	A	B	C	MBA * 2 (SQ. FT.)	*1
		22-1/2° BENDS			
6"	2'-0"	1'-0"	1'-0"	1.0	0.08
8"	2'-0"	1'-9"	1'-0"	1.7	0.11
10"	2'-6"	2'-3"	1'-3"	2.8	0.19
12"	2'-6"	2'-6"	1'-3"	3.7	0.24
16"	3'-0"	3'-0"	2'-3"	6.5	0.48
18"	3'-0"	3'-4"	2'-6"	8.3	0.68
24"	3'-0"	4'-6"	3'-5"	15.4	1.04
30"	3'-6"	5'-0"	4'-6"	22.5	1.93
		11-1/4° BENDS			
6"	2'-0"	1'-0"	0'-6"	0.5	0.06
8"	2'-0"	1'-3"	0'-9"	0.9	0.08
10"	2'-6"	1'-6"	1'-0"	1.5	0.14
12"	2'-6"	2'-0"	1'-0"	2.0	0.17
16"	3'-0"	2'-6"	1'-4"	3.3	0.30
18"	3'-0"	2'-9"	1'-6"	4.1	0.38
24"	3'-0"	3'-3"	2'-3"	7.3	0.65
30"	3'-6"	3'-9"	3'-0"	11.2	1.22
		PLUGS *3			
12"	2'-6"	4'-6"	2'-6"	12.0	1.0

*1 – ESTIMATED C.Y. CONCRETE FOR TEES, BENDS AND PLUGS.
*2 – MINIMUM BEARING AREA (MBA) IS BASED ON SOIL BEARING CAPACITY OF 2000 PSF.
*3 – PLACE 6MIL POLYETHYLENE OVER PLUG PRIOR TO POURING CONCRETE

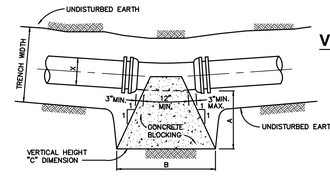
THRUST BLOCK DETAILS

NTS

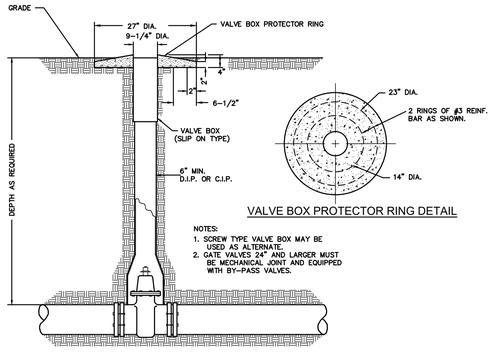


VERTICAL BLOCKING DETAIL

NTS



HORIZONTAL BLOCKING DETAIL

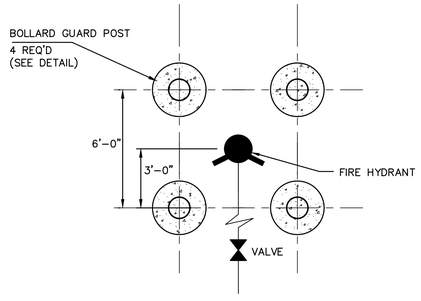


VALVE BOX PROTECTOR RING DETAIL

NOTES:
1. SCREW TYPE VALVE BOX MAY BE USED AS ALTERNATE.
2. GATE VALVES 24" AND LARGER MUST BE MECHANICAL JOINT AND EQUIPPED WITH BY-PASS VALVES.

GATE VALVE BOX DETAIL

NTS



FIRE HYDRANT BOLLARD PROTECTION DETAIL

NTS

CROSSING NOTES

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

CROSSING A WATER MAIN UNDER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

LATERAL SEPARATION NOTES

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

UTILITY CROSSING

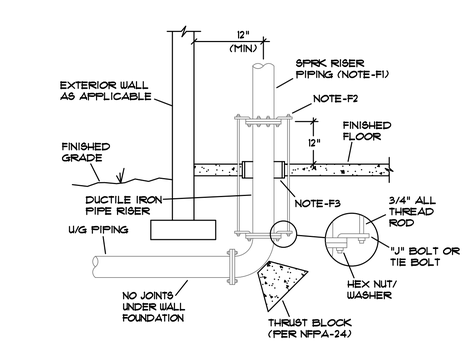
NTS

METER SIZE	3"	4"	6"	8"	10"
A	30"	30"	36"	42"	48"
B	18"	18"	24"	26"	32"
C	84"	84"	96"	104"	120"
D	6"	6"	6"	8"	8"
E	12"	12"	12"	18"	18"
ACCESS DOOR	24"	24"	24"	24"	24"

METER BOX DIMENSIONS

METER SIZE	3"	4"	6"	8"	10"
A	30"	30"	36"	42"	48"
B	30"	30"	36"	38"	54"
C	108"	108"	128"	132"	168"
D	6"	6"	6"	8"	8"
E	12"	12"	12"	18"	18"
ACCESS DOOR	24"	24"	24"	24"	24"

METER BOX DIMENSIONS W/ BY-PASS

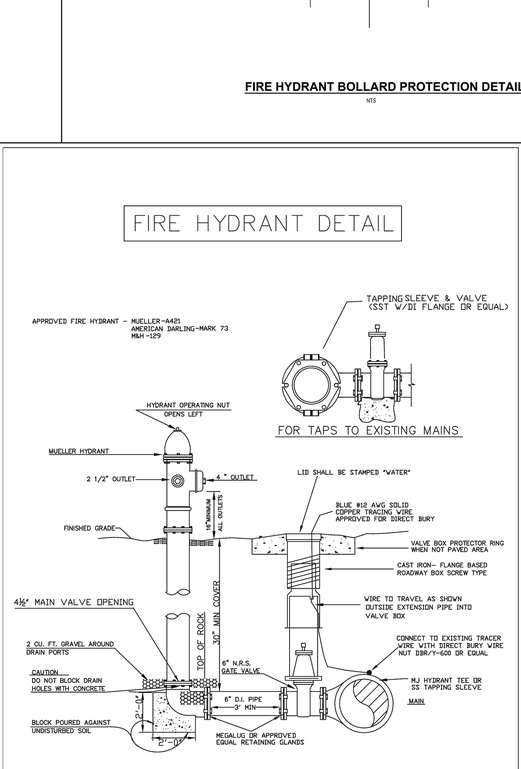


U/G FIRE SERVICE PIPING DETAIL

NO SCALE

FIRE SERVICE NOTES:
- F1. SPRINKLER RISER PIPING INDICATED FOR REFERENCE ONLY. SITE UTILITY CONTRACTOR SHALL COORDINATE WITH SPRK CONTRACTOR AS REQ'D BEFORE START OF CONSTRUCTION.
- F2. SITE UTILITY CONTRACTOR'S WORK TO TERMINATE WITH FLANGE 12" ABOVE FINISHED FLOOR AS INDICATED.
- F3. PROVIDE STEEL PIPE SLEEVE AT PENETRATION TO MEET IBC FOR SEISMIC AND NFPA 13 PARA 9.3.4 CLEARANCE. SEAL OPENING WITH FLEXIBLE MATERIAL PER PARA 9.3.4.8.

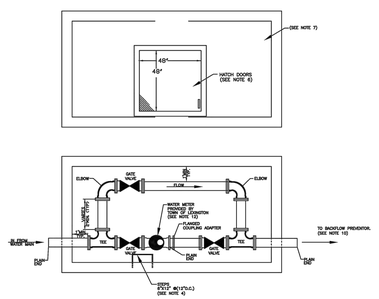
FIRE HYDRANT DETAIL



NOTE: MINIMUM 60' OF RESTRAINED JOINT PIPE BEFORE HYDRANT AT END OF LINE APPLICATION

TOWN OF LEXINGTON ENGINEERING/PLANNING REVISED: JULY 2019

METER PIT DETAIL



PLAN VIEW

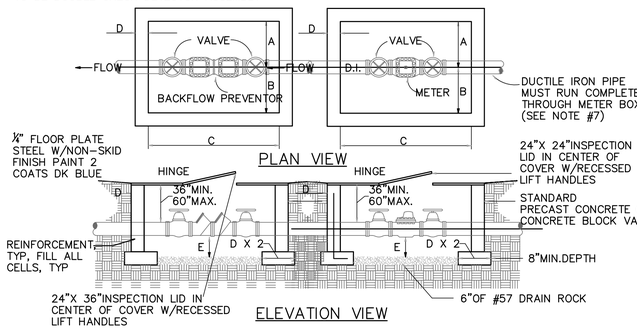
METER PIT DETAIL FOR 3"– 6" METERS

NOT TO SCALE

NOTES:
1. ALL PIPING MATERIAL AND APPURTENANCES TO BE D.I. PIPE WITH FLANGED ENDS.
2. GATE VALVES TO BE RESILIENT WEDGE WITH PL×PL. ENDS., MUELLER CO. MODEL A-2360 OR APPROVED EQUAL.
3. FLANGED COUPLING ADAPTER TO BE CAST IRON, SMITH BLAIR CO. MODEL 912 OR APPROVED EQUAL.
4. ALL HATCHES MUST BE CENTERED OVER WATER METER OR DOUBLE CHECK VALVE ASSEMBLY (DCVA) AND STEPS IN ORDER TO PROVIDE ACCESS INTO PIT.
5. VAULT WALL MAY BE CONSTRUCTED OF EITHER FILLED CONCRETE MASONRY BLOCK OR REINFORCED CONCRETE AT THE DISCRETION OF THE TOWN OF LEXINGTON.
6. ALL HATCH DOORS MUST HAVE A LOCK PIN AND RETRACTABLE HANDLE.
7. LID OVER PIT AREA TO BE PRECAST REINFORCED CONCRETE OR FABRICATED STEEL, AS DETERMINED BY TOWN OF LEXINGTON ENGINEERING & PLANNING DEPARTMENT.
8. ULTIMATE RESPONSIBILITY FOR DESIGN OF METER PIT RESTS WITH DEVELOPER'S ENGINEER.
9. TOWN OF LEXINGTON WILL OPERATE AND MAINTAIN METER PIT AFTER TOWN ACCEPTANCE OF SYSTEM. OWNER'S ENGINEER MUST SUBMIT SHOP DRAWING OF METER PIT TO TOWN OF LEXINGTON ENGINEERING AND PLANNING DEPARTMENT.
10. BACKFLOW PREVENTOR TO BE A 'SCDHEC-APPROVED DCVA. DCVA TO BE INSTALLED IN SEPARATE PIT OUTSIDE OF BUILDING AS CLOSE TO METER PIT AS POSSIBLE. DCVA TO BE MAINTAINED BY OWNER.
11. A MINIMUM 12 INCH CLEARANCE FROM WALLS AND FLOOR IS REQUIRED.
12. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF WATER METER.

TOWN OF LEXINGTON ENGINEERING/PLANNING REVISED: JULY 2019

* BACKFLOW PREVENTOR ON FIRE SERVICE TO BE DOUBLE CHECK DETECTOR ASSEMBLY



NOTES:
1. METER BOXES FOR METERS 3" AND ABOVE SHALL BE CONSTRUCTED OF THE MATERIALS AND TO THE DIMENSIONS SPECIFIED HEREIN.
2. METER BOXES CONSTRUCTED WITHIN THE TRAVELED WAY MUST WITHSTAND HEAVY SUPER-IMPOSED LOADS. EACH MUST BE DESIGNED TO MEET THE REQUIREMENTS OF THE INDIVIDUAL ENVIRONMENT IN WHICH IT IS TO BE USED. DETAILS/SHOP DRAWINGS AND DESIGN CALCULATIONS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION OF THE METER.
3. METER BOXES SHALL BE PROVIDED WITH A COVER FABRICATED FROM ONE FOURTH (1/4") INCH THICK FLOOR PLATE STEEL WITH A NON-SKID SURFACE PRIMED AND PAINTED TO COVER ENTIRE BOX. COVERS MUST HAVE A HINGED 24" x 24" INSPECTION LID IN THE CENTER OF THE COVER WITH LIFT HANDLES FOR MANIPULATING THE LID. COVER HANDLES MUST LAY FLAT AND BELOW SURFACE COVER.
4. THE BOX COVER SHALL BE FLUSH WITH THE SURROUNDING GROUND SURFACE AND SHALL HAVE 2" GUIDES ALONG ADJACENT SIDES TO PREVENT LATERAL MOVEMENT.
5. THE BOX SHALL BE CONSTRUCTED OF PRECAST CONCRETE STANDARD BRICK, OR CONCRETE BLOCK USING PORTLAND CEMENT MORTAR IN A STANDARD MIXTURE.
6. SIX (6") INCHES OF #5 CRUSHED STONE SHALL BE PLACED IN THE BOTTOM OF EACH BOX. SEE "E" FOR PROPER CLEARANCE BETWEEN THE TOP OF STONE AND THE BOTTOM OF THE PIPE.
7. DUCTILE IRON PIPE MUST RUN COMPLETELY THROUGH METER BOX. METER SHALL BE INSTALLED (CUT-IN) BY LCJMWSC.
8. VALVE WITH BOX SHALL BE INSTALLED BETWEEN METER BOX AND SOURCE WATER MAIN.
9. ALL METER BOXES SHALL HAVE THE DIMENSIONS SHOWN BY THE ABOVE TABLE.

BACKFLOW AND METER VAULT

NTS

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA JACKSON CIVIL ENGINEERING No. 6177 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21971 RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

No	Description	Date

PRICING DOCS

DRAWN BY: RPJ

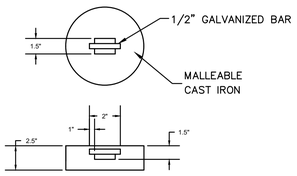
CHECKED BY: JCS

COMM NO: 2306

DATE: JAN 10, 2023

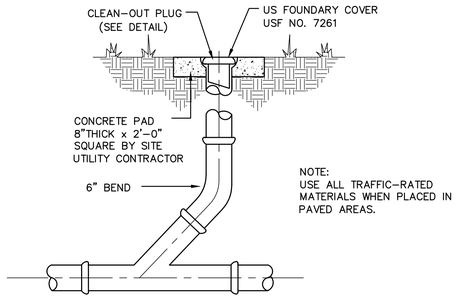
SHEET TITLE: WATER DETAILS

SHEET NO: C309



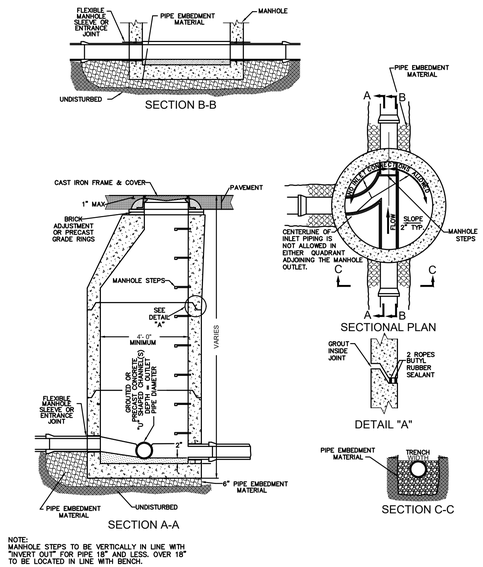
CLEANOUT PLUG DETAIL

NTS



SEWER CLEANOUT DETAIL

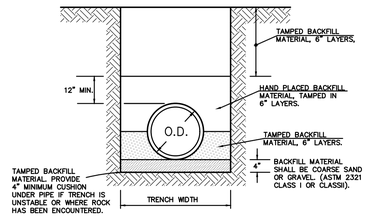
NTS



NOTE:
MANHOLE STEPS TO BE VERTICALLY IN LINE WITH "INVERT OUT" FOR PIPE 18" AND LESS. OVER 18" TO BE LOCATED IN LINE WITH BENCH.

SEWER MANHOLE DETAIL

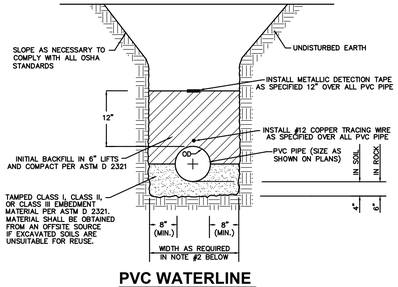
NTS



THE PIPE IS TO BE BEDDED IN COMPACTED 6" LAYERS TO THE SPRING LINE FIRST, THEN BACKFILLED WITH HAND PLACED MATERIAL COMPACTED IN 6" LAYERS TO A DEPTH OF 12" MINIMUM ABOVE THE PIPE.

PVC PIPE BEDDING AND BACKFILLING DETAIL

NTS

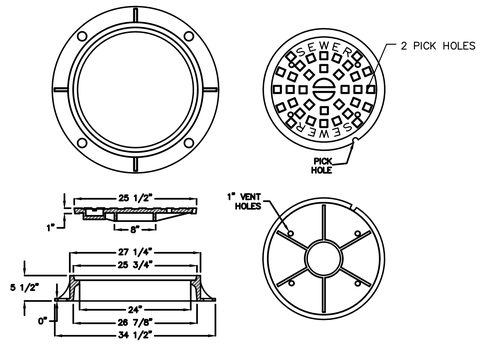


PVC WATERLINE TRENCH DETAIL

NTS

NOTES:

1. WHERE THE TRENCH WILL BE WITHIN THREE FEET OF THE EDGE OF THE EXISTING PAVEMENT, FLOWABLE FILL MAY BE REQUIRED FOR BACKFILL MATERIAL. CONSULT ENCROACHMENT PERMITS FOR SPECIFIC REQUIREMENTS.
2. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 IN. OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 IN.
3. NO BOULDERS OR STONES WILL BE USED IN INTIAL BACKFILL OR 2 FEET ABOVE TOP OF PIPE.
4. PVC PIPE NOT ALLOWED WITH LESS THAN 3'-0" COVER.



CASTINGS MEET AASHTO M306
H-20 LOADING.
CASTINGS ARE COATED WITH
ASPHALTIC BASED PAINT.
APPROX. WEIGHT: 290 LBS.

CROSSING NOTES

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

CROSSING A WATER MAIN UNDER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

LATERAL SEPARATION NOTES

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

UTILITY CROSSING

NTS

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA
JACKSON CIVIL ENGINEERING No. 6177
CERTIFICATE OF AUTHORIZATION

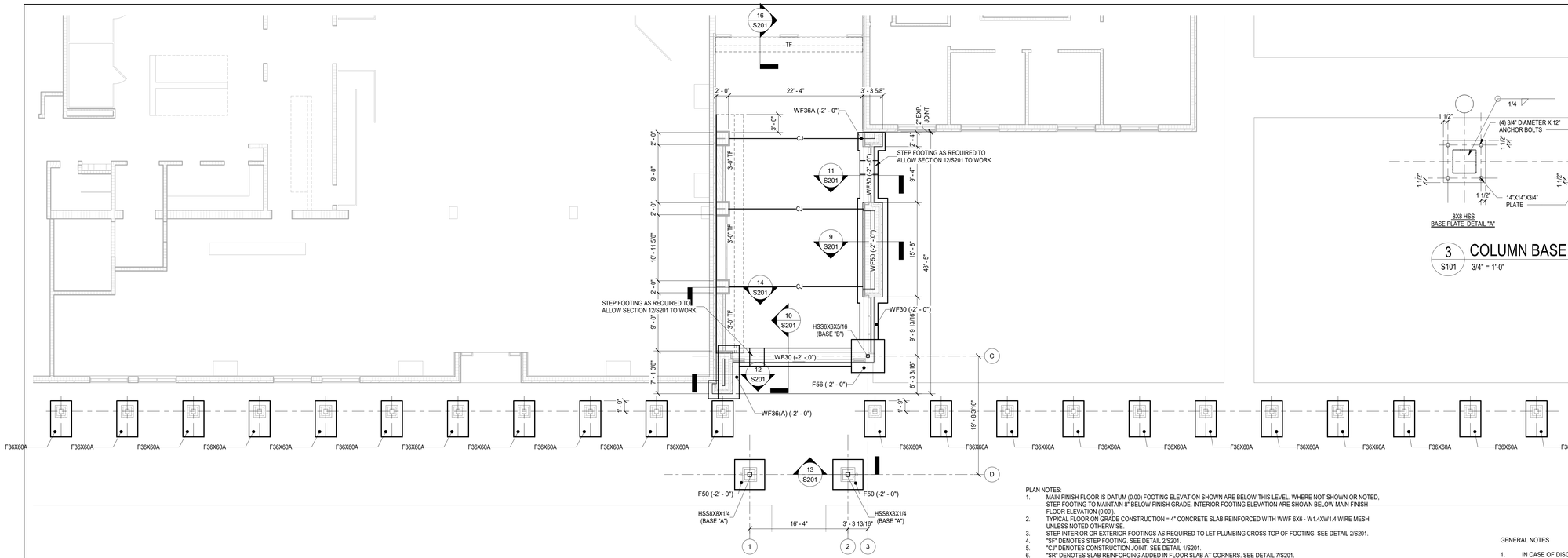
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 21971
RICHARD P. JACKSON, II

EMERALD HIGH SCHOOL
SITEWORK IMPROVEMENTS
150 BYPASS 225
GREENWOOD, SC 29646
GREENWOOD SCHOOL DIST FIFTY

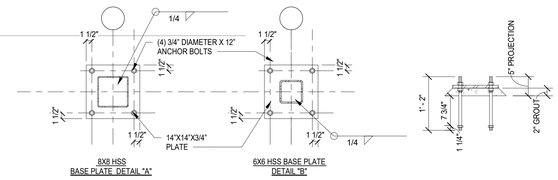
No	Description	Date

PRICING DOCS

DRAWN BY: RPJ
CHECKED BY: JCS
COMM NO: 2306
DATE: JAN 10, 2023
SHEET TITLE: SEWER DETAILS
SHEET NO: C310



1 S101 FOUNDATION PLAN - FRONT LOBBY AND CANOPY
1/8" = 1'-0"



3 S101 COLUMN BASE PLATE DETAILS
3/4" = 1'-0"

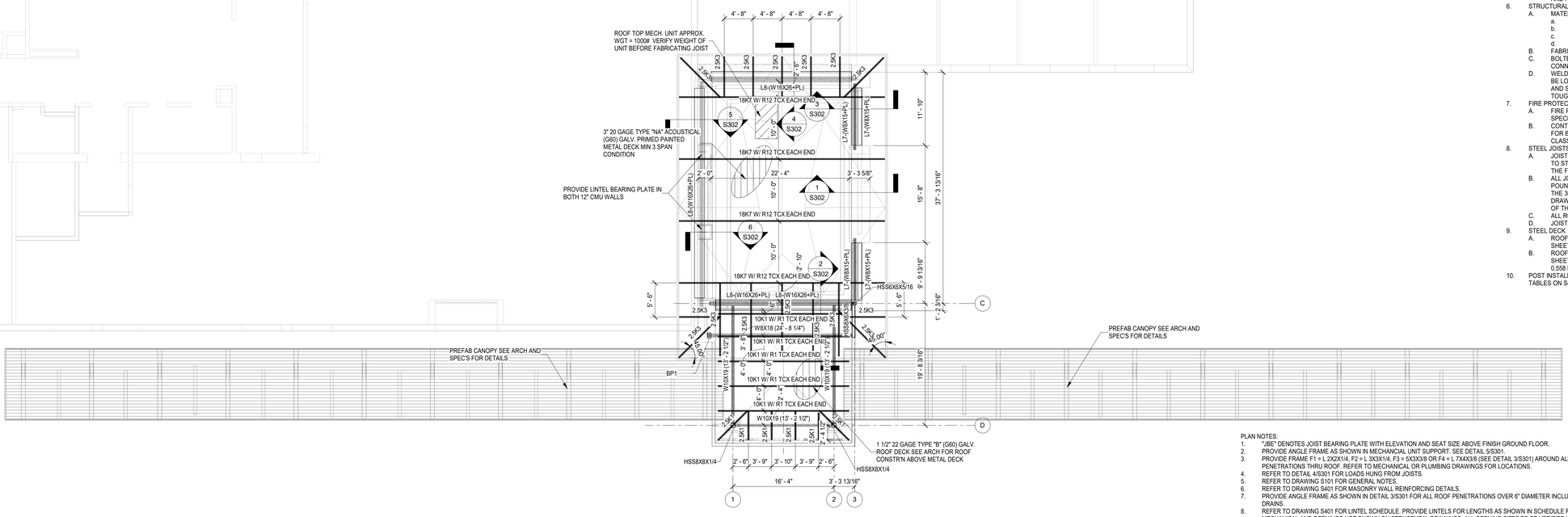
FOOTING SCHEDULE

MARK	SIZE	THICKNESS	REINFORCING EACH WAY
F26A	2'-6" X 2'-6"	24"	3#5
F36A	SEE SECTION	AS REQUIRED	SEE SECTION
F36X60A	3'-6" X 6'-0"	24"	6 #5 SW 4 #5 LW
F50	5'-0" X 5'-0"	12"	5 #5
F56	5'-6" X 5'-6"	13"	6 #5
WF30	3'-0" CONT.	12"	3 #5 CONT, #4 @ 32" OC TRANSVERSE
WF50	5'-0" CONT.	12"	5 #5 CONT, #4 @ 32" OC TRANSVERSE

PLAN NOTES:
1. MAIN FINISH FLOOR IS DATUM (0.00) FOOTING ELEVATION SHOWN ARE BELOW THIS LEVEL. WHERE NOT SHOWN OR NOTED, STEP FOOTING TO MAINTAIN 8" BELOW FINISH GRADE. INTERIOR FOOTING ELEVATION ARE SHOWN BELOW MAIN FINISH FLOOR ELEVATION (0.00').
2. TYPICAL FLOOR ON GRADE CONSTRUCTION = 4" CONCRETE SLAB REINFORCED WITH WWF 6X6 - W1.4XW1.4 WIRE MESH UNLESS NOTED OTHERWISE.
3. STEP INTERIOR OR EXTERIOR FOOTINGS AS REQUIRED TO LET PLUMBING CROSS TOP OF FOOTING. SEE DETAIL 2/S201.
4. "SF" DENOTES STEP FOOTING. SEE DETAIL 2/S201.
5. "CJ" DENOTES CONSTRUCTION JOINT. SEE DETAIL 1/S201.
6. "SR" DENOTES SLAB REINFORCING ADDED IN FLOOR SLAB AT CORNERS. SEE DETAIL 7/S201.
7. FOR SLAB BLOCKOUTS SEE DETAIL 4/S201 FOR REQUIRED SLAB REINFORCING.
8. SEE S101 FOR FOOTING SCHEDULE.
9. SEE DRAWING S401 FOR MASONRY WALL REINFORCING DETAILS.
10. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN OR NOTED.
11. SEE DRAWING S402 FOR ALL APPROVED ANCHORS FOR POST INSTALLED ANCHORS IN CONCRETE AND MASONRY.

GENERAL NOTES

1. IN CASE OF DISCREPANCY BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, CONSULT WITH THE ARCHITECT. FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE THE ARCHITECTURAL DRAWINGS. VERIFY ALL MECHANICAL OPENINGS AND SUPPORTS WITH THE MECHANICAL EQUIPMENT. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION.
2. DESIGN CRITERIA
   - A. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
   - B. RISK CATEGORY: III
   - C. SEISMIC DESIGN DATA:
     - a. IMPORTANCE FACTOR: 1.25
     - b. S_S = 0.302 S_1 = 0.097
     - c. SD_S = 0.313 SD_1 = 0.155
     - d. SITE CLASS D, SEISMIC DESIGN CATEGORY C
     - e. DESIGN BASE SHEAR: 18 KIPS
     - f. SEISMIC RESPONCE COEFFICIENT: C_S = 0.144
     - g. BASIC SEISMIC FORCE RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS FOR SEISMIC RESISTANCE. R = 5.0
     - h. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
   - D. WIND VELOCITY 115 MPH, EXPOSURE C, INTERNAL PRESSURE COEFFICIENT +/- 0.18. SEE DIAGRAM AND CHART AT LEFT FOR COMPONENTS AND CLADDING DESIGN PRESSURES.
   - E. ROOF LIVE LOAD: 20 PSF
   - F. GROUND SNOW LOAD: 10 PSF
   - G. FLOOR LIVE LOADS:
     - a. LOBBIES: 100 PSF
     - b. CORRIDORS: 100 PSF
     - c. LIVE LOADS EXCEED 80 PSF) ARE DESIGNED FOR A LIVE LOAD PARTITION ALLOWANCE OF 15 PSF.
3. FOUNDATION DESIGN IS BASED ON THE ASSUMED ALLOWABLE BEARING PRESSURE LISTED BELOW. CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING LABORATORY, ACCEPTABLE TO THE ARCHITECT, TO VERIFY THE ALLOWABLE BEARING PRESSURE BEFORE FOOTINGS ARE CONSTRUCTED OR REINFORCING IS FABRICATED.
   - A. ASSUMED ALLOWABLE BEARING PRESSURE = 2500 PSF
   - B. STEP FOOTINGS AS REQUIRED TO LET UTILITIES PASS OVER FOOTINGS.
4. CONCRETE: 28-DAY COMPRESSIVE STRENGTHS SHALL BE AS FOLLOWS:
   - A. ALL CONCRETE: 3000 PSI, NORMAL WEIGHT
5. CONCRETE REINFORCING STEEL
   - A. ASTM A615, GRADE 60, EXCEPT WHERE REINFORCING IS SHOWN TO BE WELDED, USE ASTM A706 WELDABLE REINFORCING. DO NOT WELD OR TACK WELD ANY REINFORCING NOT SHOWN ON THE DRAWINGS TO BE WELDED.
   - B. DETAIL IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION.
   - C. LAP ALL BARS WITH CLASS B SPLICES UNLESS NOTED OTHERWISE.
   - D. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL REINFORCING AT ALL WALLS AND FOOTING INTERSECTIONS. LAP WITH CLASS B SPLICES.
6. STRUCTURAL STEEL
   - A. MATERIALS:
     - a. PIPE: ASTM A53, GRADE B
     - b. TUBE: ASTM A500, GRADE C
     - c. WIDE FLANGES AND TEES: ASTM A992, GRADE 50
     - d. OTHER: ASTM A36
   - B. FABRICATION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS.
   - C. BOLTED CONNECTIONS: ASTM A325, 3/4" DIAMETER, SNUG-TIGHTENED, BEARING TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE UNLESS NOTED OTHERWISE.
   - D. WELDED CONNECTIONS: E70XX ELECTRODES. ELECTRODES USED FOR WELDING A992 STEEL SHALL BE LOW HYDROGEN ELECTRODES. ALL WELDS IN MOMENT CONNECTIONS (INCLUDING SHEAR TABS AND STIFFENER PLATES) SHALL BE MADE WITH A WELD METAL WITH A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS. AT MINUS 20 DEGREES F AND 40 FT.-LBS AT 70 DEGREES F.
7. FIRE PROTECTION
   - A. FIRE PROTECTION FOR STRUCTURAL MEMBERS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.
   - B. CONTRACTOR SHALL INCREASE FIRE PROTECTION THICKNESS AS REQUIRED BY THE UL FORMULA FOR BEAMS SMALLER THAN THE MINIMUM BEAM SIZE LISTED IN THE APPLICABLE UL ASSEMBLY. CLASSIFICATION = RESTRAINED.
8. STEEL JOISTS
   - A. JOISTS SHALL BE INSTALLED AND BRIDGED IN ACCORDANCE WITH SJI SPECIFICATIONS. IN ADDITION TO STANDARD SJI BRIDGING, PROVIDE A SINGLE LINE OF BOTTOM CHORD BRIDGING FOR UPLIFT AT THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF ROOF JOISTS.
   - B. ALL JOISTS SHALL BE DESIGNED FOR THE ADDITIONAL BENDING STRESSES RESULTING FROM A 300 POUND CONCENTRATED LOAD LOCATED AT ANY LOCATION ALONG THE TOP AND BOTTOM CHORD. THE 300 POUND LOAD IS ALREADY ACCOUNTED FOR IN THE JOIST DESIGNATIONS SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE AND SHALL BE APPLIED CONCURRENTLY WITH THE BALANCE OF THE STANDARD SJI SERVICE LOAD.
   - C. ALL ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 20 PSF.
   - D. JOISTS SHALL BE DESIGNED FOR ANY SPECIAL LOADS SHOWN ON THE DRAWINGS.
9. STEEL DECK
   - A. ROOF DECK SHALL BE 1 1/2" 22 GAGE TYPE B (WIDE RIB) G60 GALVANIZED STEEL DECK IN 36" WIDE SHEETS. MINIMUM SECTION MODULUS = 0.186 INCHES^3.
   - B. ROOF DECK SHALL BE 3" 20 GAGE DECK TYPE NA G60 GALVANIZED ACOUSTICAL STEEL IN 24" WIDE SHEETS. DECK SHALL BE GALVANIZED AND THEN PRIME PAINTED. MINIMUM SECTION MODULUS = 0.558 INCHES^3.
10. POST INSTALLED ANCHORS INSTALLED IN MASONRY OR HARDENED CONCRETE SHALL BE SHOWN IN THE TABLES ON S4.02.



2 S101 ROOF FRAMING PLAN - FRONT LOBBY AND CANOPY
1/8" = 1'-0"

PLAN NOTES:
1. "JBE" DENOTES JOIST BEARING PLATE WITH ELEVATION AND SEAT SIZE ABOVE FINISH GROUND FLOOR.
2. PROVIDE ANGLE FRAME AS SHOWN IN MECHANICAL UNIT SUPPORT. SEE DETAIL 5/S301.
3. PROVIDE FRAME F1 = L 2X2X1/4, F2 = L 3X3X1/4, F3 = 5X3X3/8 OR F4 = L 7X4X3/8 (SEE DETAIL 3/S301) AROUND ALL PENETRATIONS THRU ROOF. REFER TO MECHANICAL OR PLUMBING DRAWINGS FOR LOCATIONS.
4. REFER TO DETAIL 4/S301 FOR LOADS HUNG FROM JOISTS.
5. REFER TO DRAWING S101 FOR GENERAL NOTES.
6. REFER TO DRAWING S401 FOR MASONRY WALL REINFORCING DETAILS.
7. PROVIDE ANGLE FRAME AS SHOWN IN DETAIL 3/S301 FOR ALL ROOF PENETRATIONS OVER 6" DIAMETER INCLUDING ROOF DRAINS.
8. REFER TO DRAWING S401 FOR LINTEL SCHEDULE. PROVIDE LINTELS FOR LENGTHS AS SHOWN IN SCHEDULE FOR ALL MECHANICAL AND OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL OPENING SIZES TO BE VERIFIED WITH ARCHITECTURAL OR MECHANICAL DRAWINGS BEFORE FABRICATING LINTELS.
9. REFER TO DRAWING S402 FOR CONCRETE AND MASONRY POST INSTALLED ANCHORS.
10. REFER TO DRAWING S402 FOR MECHANICAL OPENING SAW CUT THRU MASONRY DETAILS.
11. "BP" DENOTES BEAM BEARING PLATE. SEE DETAILS ON DRAWING S401.

Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

TIMMERMAN STRUCTURAL ENGINEERING GROUP — No. 5537 — CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

No. 11150 — REGISTERED — 01.10.23 — PROFESSIONAL ENGINEER — WILLIAM TIMMERMAN — SOUTH CAROLINA

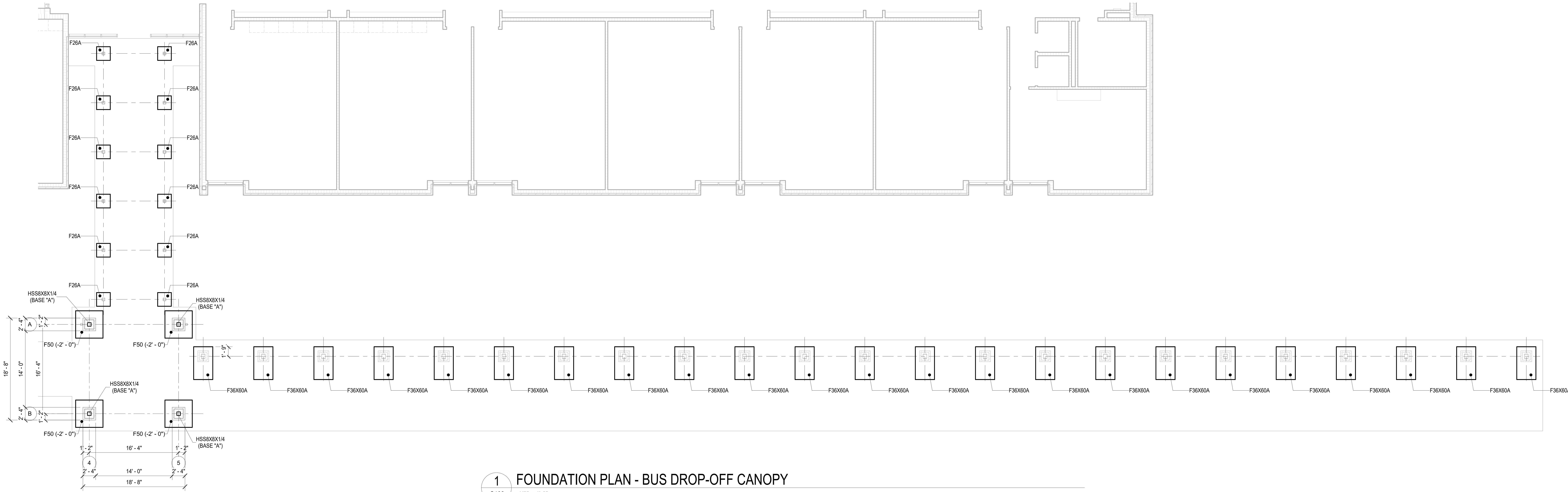
TSEG #22-561

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

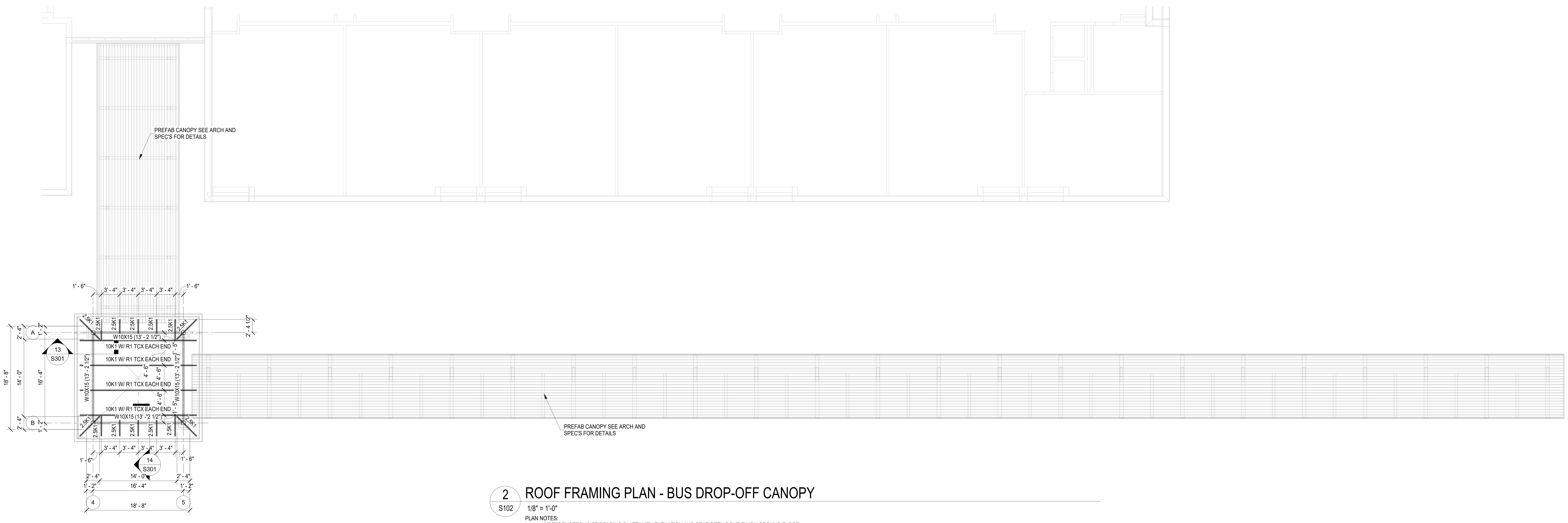
BID DOCUMENTS

No	Description	Date

DRAWN BY: LWK
CHECKED BY: KWT
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: STRUCTURAL PLANS - LOBBY AND FRONT CANOPY
SHEET NO: S101



1 FOUNDATION PLAN - BUS DROP-OFF CANOPY
S102
1/8" = 1'-0"



2 ROOF FRAMING PLAN - BUS DROP-OFF CANOPY
S102
1/8" = 1'-0"

PLAN NOTES:
1. "JBE" DENOTES JOIST BEARING PLATE WITH ELEVATION AND SEAT SIZE ABOVE FINISH GROUND FLOOR.
2. PROVIDE ANGLE FRAME AS SHOWN IN MECHANCIAL UNIT SUPPORT. SEE DETAIL 5/S301.
3. PROVIDE FRAME F1 = L 2X2X1/4, F2 = L 3X3X1/4, F3 = 5X3X3/8 OR F4 = L 7X4X3/8 (SEE DETAIL 3/S301) AROUND ALL PENETRATIONS THRU ROOF. REFER TO MECHANICAL OR PLUMBING DRAWINGS FOR LOCATIONS.
4. REFER TO DETAIL 4/S301 FOR LOADS HUNG FROM JOISTS.
5. REFER TO DRAWING S101 FOR GENERAL NOTES.
6. REFER TO DRAWING S401 FOR MASONRY WALL REINFORCING DETAILS.
7. PROVIDE ANGLE FRAME AS SHOWN IN DETAIL 3/S301 FOR ALL ROOF PENETRATIONS OVER 6" DIAMETER INCLUDING ROOF DRAINS.
8. REFER TO DRAWING S401 FOR LINTEL SCHEDULE. PROVIDE LINTELS FOR LENGTHS AS SHOWN IN SCHEDULE FOR ALL MECHANICAL AND OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL OPENING SIZES TO BE VERIFIED WITH ARCHITECTURAL OR MECHANICAL DRAWINGS BEFORE FABRICATING LINTELS.
9. REFER TO DRAWING S402 FOR CONCRETE AND MASONRY POST INSTALLED ANCHORS.
10. REFER TO DRAWING S402 FOR MECHANICAL OPENING SAW CUT THRU MASONRY DETAILS.
11. "BP" DENOTES BEAM BEARING PLATE. SEE DETAILS ON DRAWING S401.

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA TIMMERMAN STRUCTURAL ENGINEERING GROUP No. 5537 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 11150 01.10.23 REGISTERED KENNETH WILLIAM TIMMERMAN

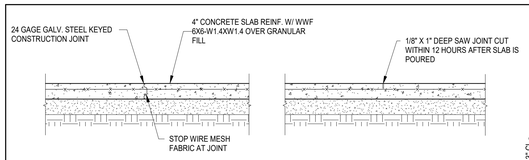
TSEG #22-561

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

BID DOCUMENTS

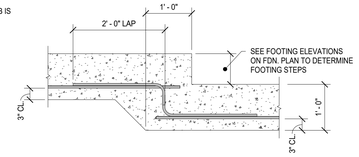
No	Description	Date

DRAWN BY: LWK
CHECKED BY: KT
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: STRUCTURAL PLANS - BUS DROP-OFF CANOPY
SHEET NO: S102



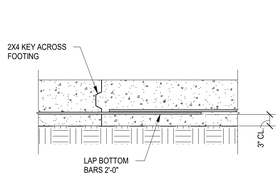
1 SLAB JOINT DETAILS
S201 3/4" = 1'-0"

NOTES:
1. CONSTRUCTION JOINTS AND SAW JOINTS ARE NOTED "CJ" ON FOUNDATION PLAN.
2. CONTRACTOR HAS THE OPTION OF WHERE TO PLACE CONSTRUCTION AND SAW JOINTS.



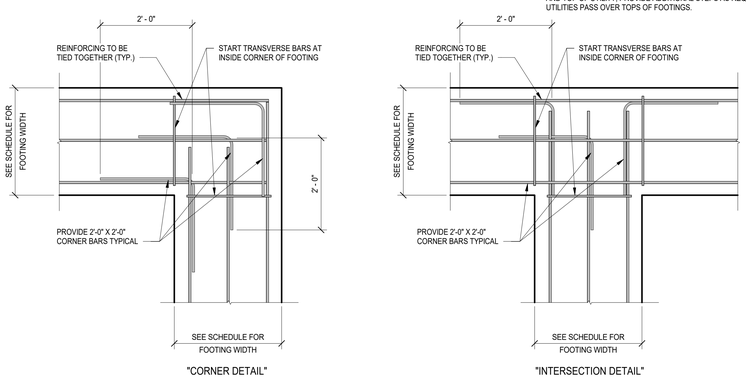
2 STEP FOOTING DETAIL
S201 3/4" = 1'-0"

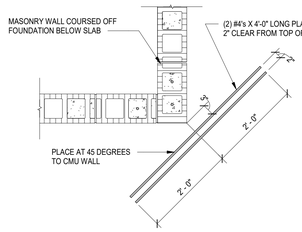
NOTES:
1. SEE FOUNDATION PLAN FOR LOCATIONS OF FOOTING STEPS.
2. IN CASES WHERE UTILITIES WOULD BE IN THE FOOTING, OR BELOW THE FOOTING WITH LESS THAN 8' OF EARTH BETWEEN THE BOTTOM OF FOOTING AND TOP OF UTILITY, PROVIDE ADDITIONAL STEPS AS REQUIRED TO LET UTILITIES PASS OVER TOPS OF FOOTINGS.



3 WALL FOOTING CONSTRUCTION JOINT DETAIL
S201 3/4" = 1'-0"

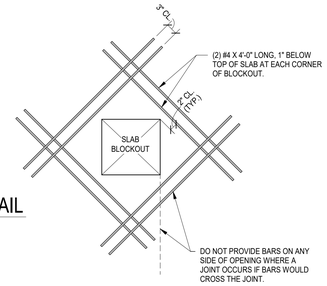
NOTES:
1. THIS DETAIL SHALL BE USED AT ALL LOCATIONS IN WALL FOOTINGS WHERE CONCRETE POURS ARE STOPPED.





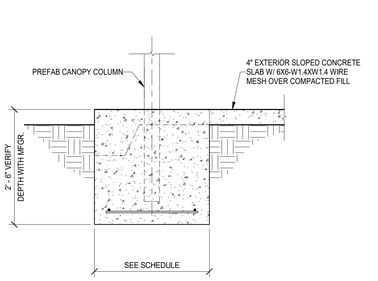
7 FLOOR SLAB REINFORCING DETAIL
S201 3/4" = 1'-0"

NOTES:
1. PROVIDE REINFORCING AS SHOWN FOR SLABS ON GRADE AT ALL WALL CORNERS OR DOOR OPENING WHERE FLOOR JOINTS DO NOT OCCUR. BARS ARE NOT TO CROSS FLOOR JOINTS

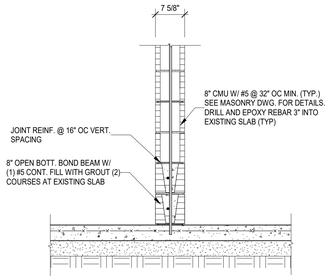


4 SLAB BLOCKOUT/RE-ENTRANT CORNER DETAILS
S201 3/4" = 1'-0"

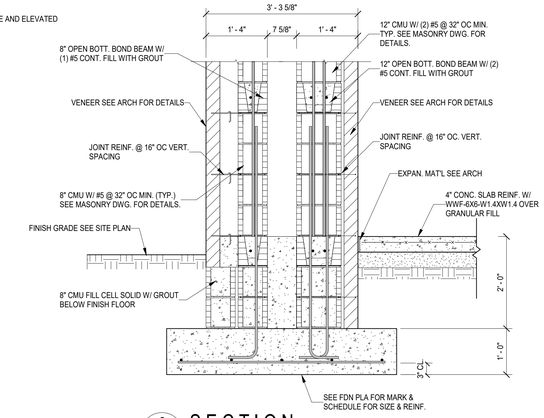
NOTES:
1. THIS DETAIL IS TYPICAL AT ALL BLOCKOUTS AND RE-ENTRANT CORNERS IN SLABS ON GRADE AND ELEVATED SLABS. BLOCKOUTS AND REINFORCING ARE NOT SHOWN ON STRUCTURAL PLANS.



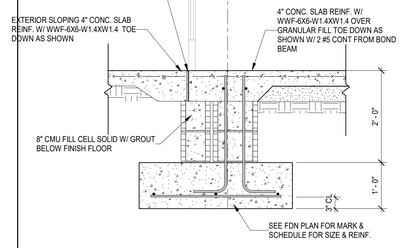
5 PREFAB CANOPY COLUMN FOOTING
S201 3/4" = 1'-0"



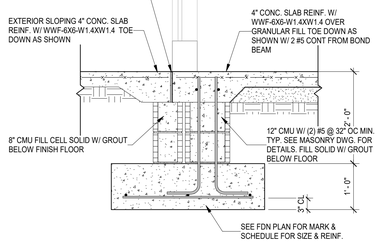
8 NEW CMU WALL ON EXISTING SLAB
S201 3/4" = 1'-0"



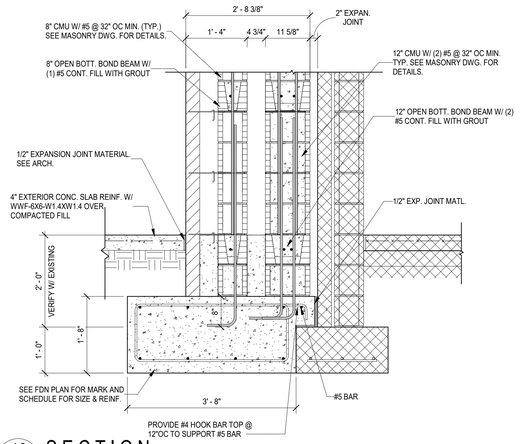
9 SECTION
S201 3/4" = 1'-0"



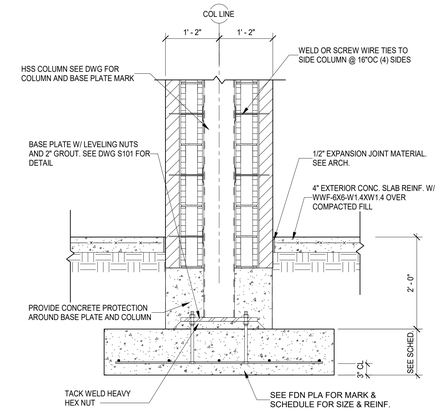
10 SECTION
S201 3/4" = 1'-0"



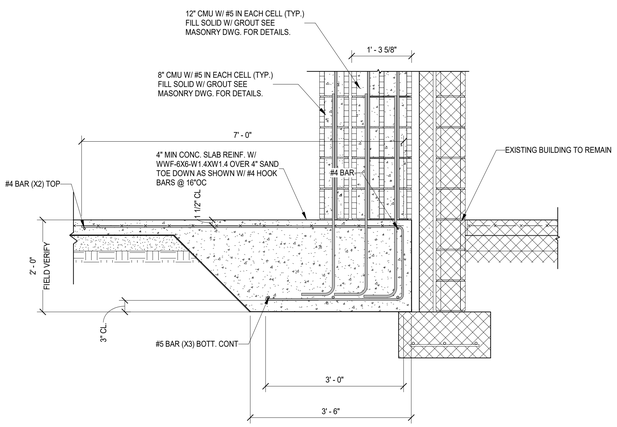
11 SECTION
S201 3/4" = 1'-0"



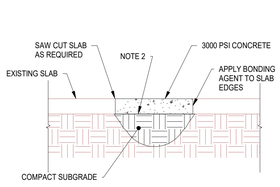
12 SECTION
S201 3/4" = 1'-0"



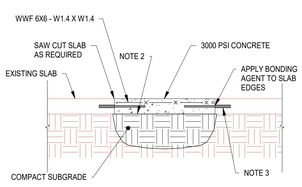
13 SECTION
S201 3/4" = 1'-0"



14 SECTION
S201 3/4" = 1'-0"



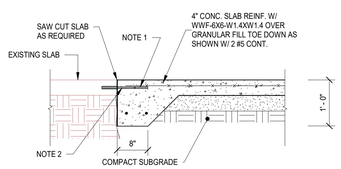
REPAIRS 2'-0" WIDE OR LESS



REPAIRS WIDER THAN 2'-0"

15 SLAB PATCH DETAILS
S201 3/4" = 1'-0"

NOTES:
1. SEE THE DRAWINGS OF ALL OTHER DISCIPLINES FOR AREA WHERE EXISTING SLABS MUST BE CUT. REPAIR CUT AREAS AS SHOWN ABOVE.
2. IF EXISTING SLAB HAS A VAPOR BARRIER, PROVIDE NEW VAPOR BARRIER OVER COMPACTED SUBGRADE AND TUCK UNDER EDGES OF EXISTING SLAB.
3. AT SIDES OF SLAB REPAIRS WIDER THAN 2'-0", PROVE 12" LONG #4 DOWELS @ 24" OC. DRILL AND EPOXY GROUT 4" INTO EXISTING SLAB.



16 TYPICAL NEW SLAB TO EXISTING SLAB
S201 3/4" = 1'-0"

NOTES:
1. PROVIDE NEW VAPOR RETARDER OVER COMPACTED SUBGRADE AND TUCK UNDER EDGES OF EXISTING SLAB.
2. PROVIDE 12" LONG #4 DOWELS @ 24" OC. DRILL AND EPOXY GROUT 4" INTO EXISTING SLAB.

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

TIMMERMAN STRUCTURAL ENGINEERING GROUP — No. 557 — CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA

WILLIAM TIMMERMAN — No. 11150 — REGISTERED PROFESSIONAL ENGINEER — 01.10.23 — SOUTH CAROLINA

TSEG #22-561

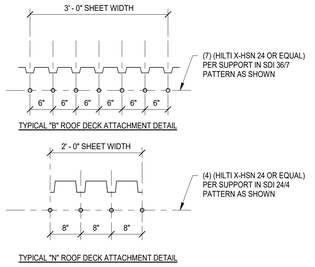
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

BID DOCUMENTS

No	Description	Date

DRAWN BY: LWK
CHECKED BY: KT
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: FOUNDATION SECTIONS

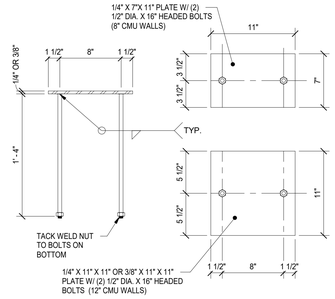
SHEET NO: S201



1 S301 TYPICAL DECK ANCHORAGE DETAIL

3/4" = 1'-0"

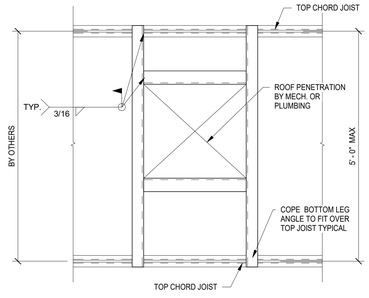
NOTES:
1. PROVIDE #10 TEKS SCREWS @ 12" OC IN SIDELAPS.
2. PROVIDE (HILTI X-HSN 24 OR EQUAL) @ 6" OC AROUND ENTIRE PERIMETER.



TYPICAL JOIST WELDING TO STEEL BEARING MEMBERS	
"K" JOIST	1/8 2 / 1/8 2

2 S301 JOIST BEARING PLATE DETAIL

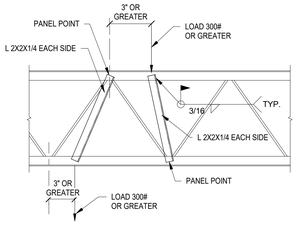
1 1/2" = 1'-0"



3 S301 TYPICAL ROOF FRAME DETAIL

3/4" = 1'-0"

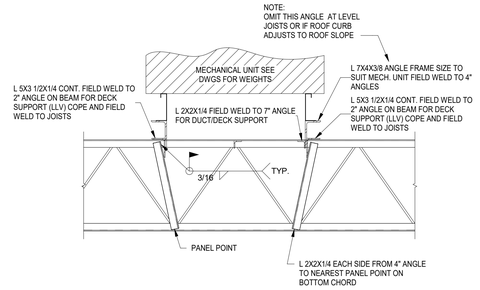
NOTES:
1. L 2X2X1/4 AROUND ALL ROOF PENETRATIONS UNLESS SHOWN OTHERWISE INCLUDING VENT PIPES OVER 6" DIAMETER, ROOF DRAINS, ETC.
2. WHERE JOISTS SPACING IS GREATER THAN 5'-0" USE L 3 1/2 X 3 1/2 X 3/8.



4 S301 CONCENTRATED LOAD ON JOIST

3/4" = 1'-0"

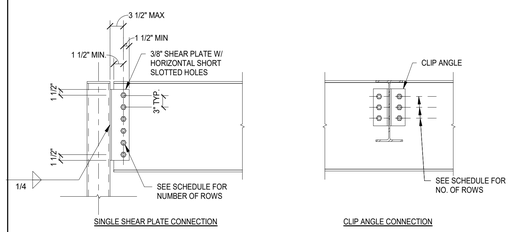
NOTES:
1. WHEN CONCENTRATED LOADS OVER 300 POUNDS, BUT NOT TO EXCEED 500 POUNDS, OCCURS AT A DISTANCE GREATER THAN 3" FROM A PANEL POINT, REINFORCING STRUTS SHALL BE INSTALLED IN THE FIELD TO CARRY THE LOAD TO A PANEL POINT ON THE OPPOSITE CHORD AS SHOWN ABOVE.
2. CONTACT THE ARCHITECT FOR DIRECTIONS BEFORE THE CONCENTRATED LOAD IS INSTALLED IF THE LOAD WILL EXCEED 500 POUNDS.
3. A MAXIMUM OF TWO CONCENTRATED LOADS TOTALING 600 POUNDS MAY BE APPLIED TO ONE JOIST.



5 S301 TYPICAL MECHANICAL UNIT SUPPORT DETAIL

3/4" = 1'-0"

NOTES:
1. MECHANICAL CURB SUPPLIER SHALL DESIGN CURB AND ITS ANCHORAGE TO THE STRUCTURE FOR THE SEISMIC AND WIND LOADS SHOWN IN THE GENERAL NOTES.
2. MECHANICAL UNIT WEIGHT SHOWN ON THE DRAWINGS SHALL BE VERIFIED WITH THE UNITS SUPPLIED BEFORE JOISTS ARE FABRICATED.

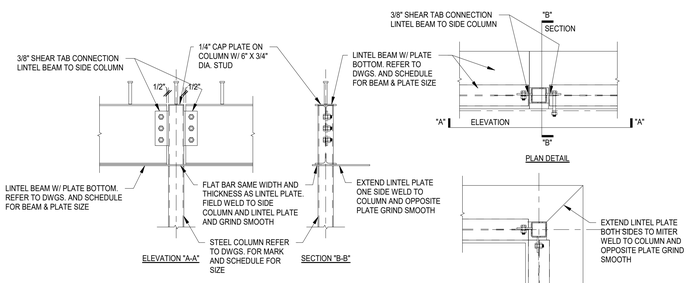


TYPICAL BEAM CONNECTION SCHEDULE		
BEAM SIZE	NO. ROWS 3/4" DIAMETER A325 ROWS	
	SINGLE PLATE CONN.	CLIP ANGLE CONN.
W8, W10	2	2
W12, W14	3	3
W16	4	4
W18	5	4

6 S301 TYPICAL BEAM CONNECTION SCHEDULE

3/4" = 1'-0"

NOTES:
1. USE THESE CONNECTIONS WHERE NO OTHER CONNECTION IS SHOWN ON PLANS OR DETAILS.
2. USE CLIP ANGLE CONNECTIONS WHEREVER POSSIBLE. WHERE NOT POSSIBLE, USE SINGLE PLATE SHEAR CONNECTIONS.



7 S301 TYPICAL LINTEL CONNECTION TO COLUMN

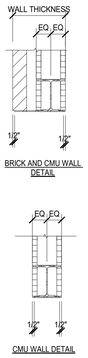
3/4" = 1'-0"

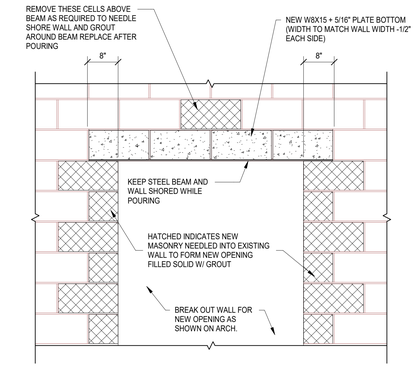
TYPICAL JOIST ROLLOVER DESIGN FORCE

8 S301 JOIST SEAT LOAD DETAIL

3/4" = 1'-0"

NOTE:
1. JOIST FABRICATOR TO DESIGN JOIST BEARING SEAT FOR THE LOAD SHOWN. PROVIDE BEARING SEAT STIFF AS NEEDED.

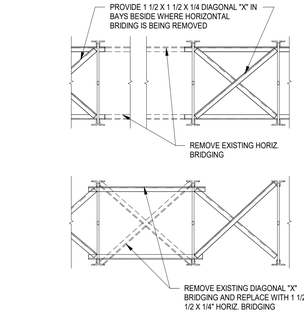




9 S301 NEW LINTEL IN EXISTING WALL

3/4" = 1'-0"

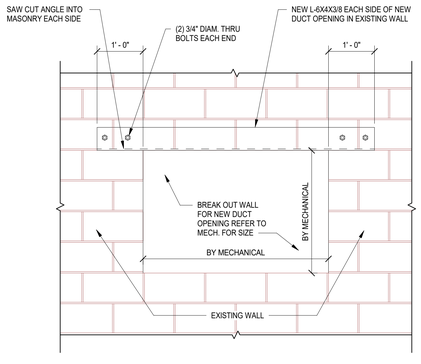
NOTE
1. TYPICAL LINTEL BEAM IN EXISTING MASONRY WALL UP TO 12'-0" WIDE
2. ALL OPENINGS IN EXISTING WALLS SHALL BE WET SAWED NO DRY SAWING IS ALLOWED
3. ALL LINTELS IN EXTERIOR SHALL BE HOT DIPPED GALVANIZED



10 S301 JOIST BRIDGING REMOVAL DETAIL

3/4" = 1'-0"

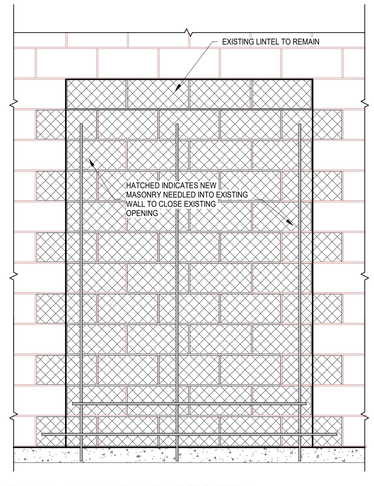
NOTES:
1. THIS DETAIL IS TYPICAL AT ALL MECHANICAL DUCTS WHERE BRIDGING IS BEING REMOVED
2. CONTRACTOR SHALL COORDINATE LOCATIONS WITH MECHANICAL DRAWINGS



11 S301 NEW MECHANICAL OPENING THRU EXISTING CMU WALLS

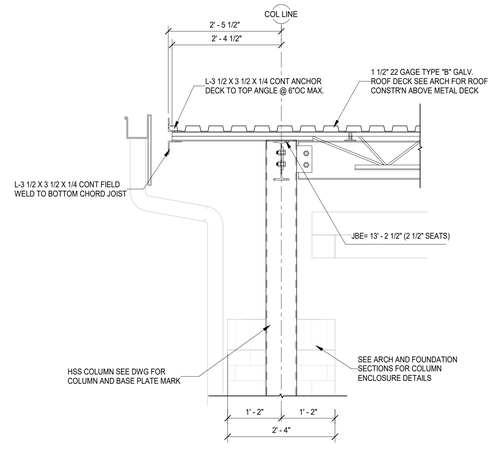
3/4" = 1'-0"

NOTES:
1. USE THIS DETAIL WHERE NEW MECHANICAL OPENING IS NOT VISIBLE OR ABOVE CEILING
2. ALL MASONRY CUTTING SHALL BE DONE BY WET CUTTING -NO DRY SAW CUTTING WILL BE ALLOWED



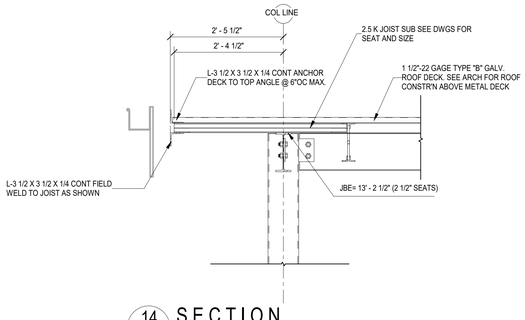
12 S301 TYPICAL WALL CLOSURE DETAIL

3/4" = 1'-0"



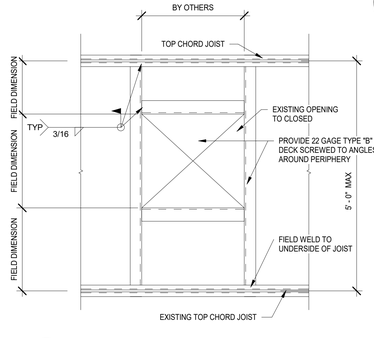
13 S301 SECTION

3/4" = 1'-0"



14 S301 SECTION

3/4" = 1'-0"



15 S301 TYPICAL ROOF CLOSURE DETAIL

3/4" = 1'-0"

NOTES:
1. L-2X2X1/4 ARROUND ALL ROOF CLOSURES UNLESS SHOWN OTHERWISE
2. WHERE JOISTS SPACING IS GREATER THAN 5'-0" USE L 3 1/2 X 3 1/2 X 3/8

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA TIMMERMAN STRUCTURAL ENGINEERING GROUP No. 5537 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED No. 11150 01.10.23 PROFESSIONAL ENGINEER WILLIAM TIMMERMAN

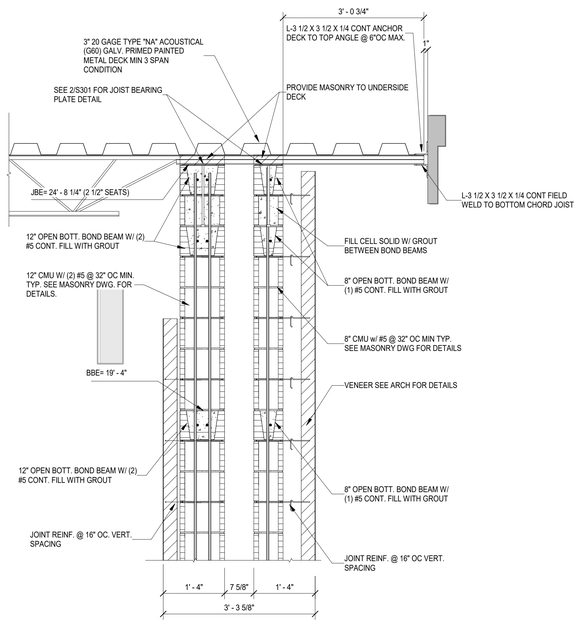
TSEG #22-561

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

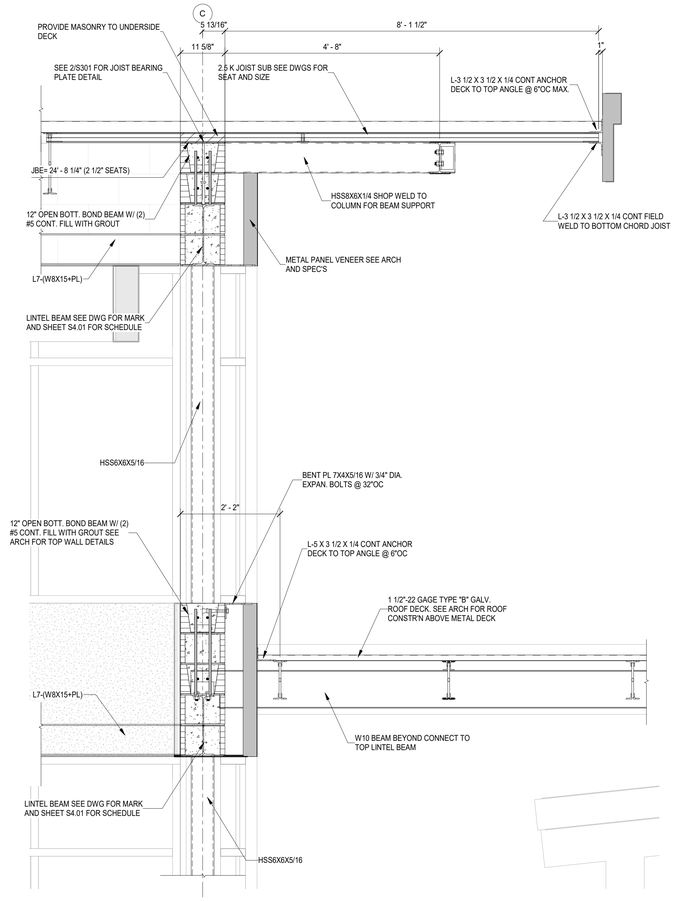
BID DOCUMENTS

No	Description	Date

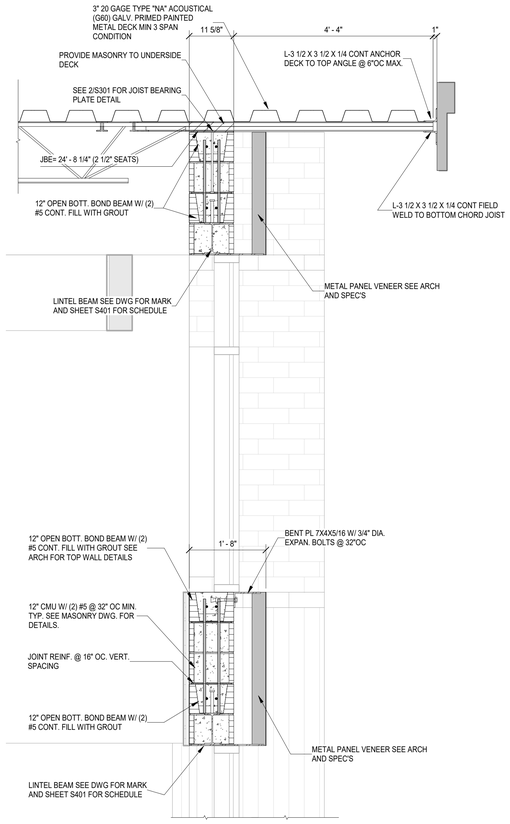
DRAWN BY: LWK
CHECKED BY: KT
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: ROOF FRAMING SECTIONS
SHEET NO: S301



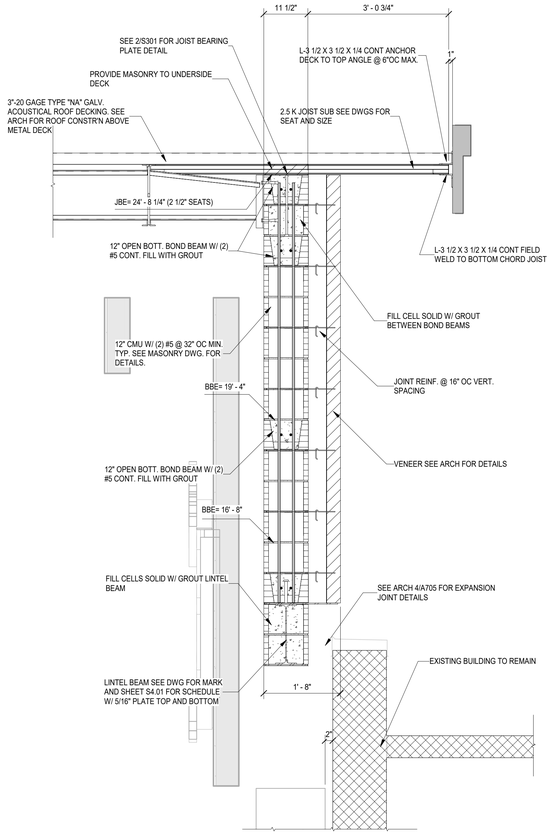
1 S302 SECTION
3/4" = 1'-0"



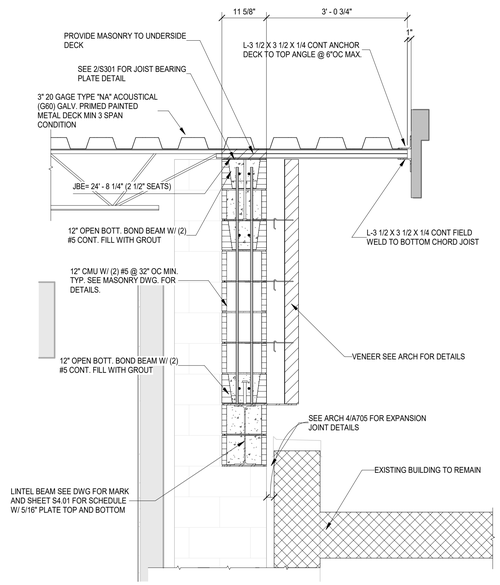
2 S302 SECTION
3/4" = 1'-0"



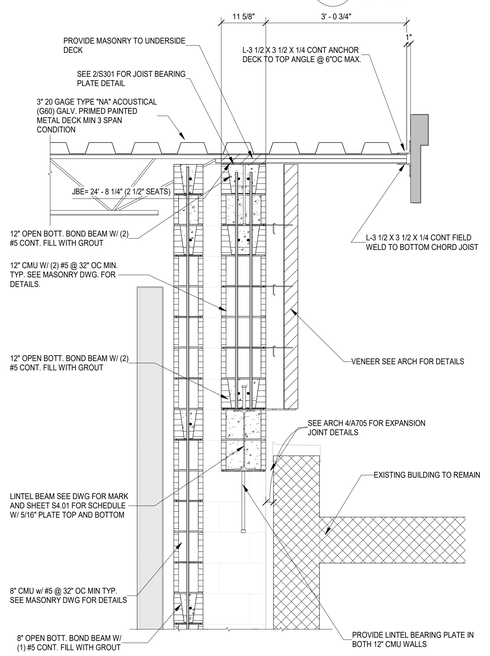
3 S302 SECTION
3/4" = 1'-0"



4 S302 SECTION
3/4" = 1'-0"



5 S302 SECTION
3/4" = 1'-0"



6 S302 SECTION
3/4" = 1'-0"

Jumper
Carter
Sease

ARCHITECTS

412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA TIMMERMAN STRUCTURAL ENGINEERING GROUP No. 5537 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 11150 01.10.23 WILLIAM TIMMERMAN

TSEG #22-561

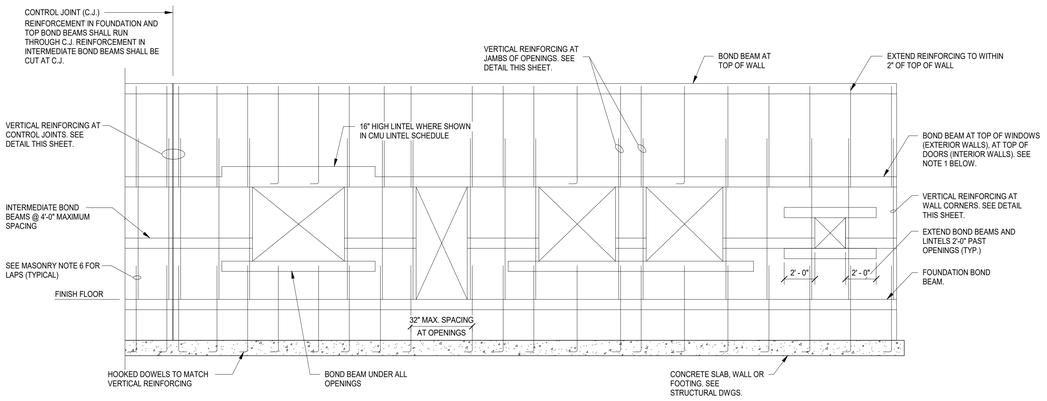
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

BID DOCUMENTS

No	Description	Date

DRAWN BY: LWK
CHECKED BY: KT
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: ROOF FRAMING SECTIONS

SHEET NO: S302

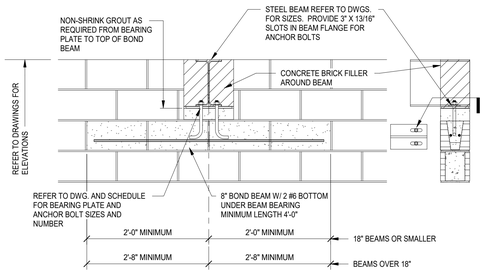


TYPICAL CMU WALL ELEVATION

NO SCALE

NOTES:
1. WALL SHOWN ABOVE IS A GENERIC INDICATION OF THE TYPICAL REINFORCING REQUIRED IN BOTH THE FIRST AND SECOND STORIES.

MASONRY NOTES:
1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1, SPECIFICATIONS FOR MASONRY STRUCTURES.
2. MASONRY IS DESIGNED FOR f'm = 1500 PSI.
3. CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHTWEIGHT UNITS IN ACCORDANCE WITH ASTM C90, GRADE N.
4. FILL ALL BOND BEAMS, LINTELS, CELLS CONTAINING REINFORCEMENT AND CELLS BELOW GRADE WITH 2500 PSI COARSE GROUT IN ACCORDANCE WITH ASTM C476, 8" TO 10" SLUMP. PLACE GROUT IN LIFTS NOT EXCEEDING 5 FEET.
5. MORTAR FOR REINFORCED MASONRY SHALL BE TYPE S IN ACCORDANCE WITH ASTM C270.
6. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. LAP ALL #4 BARS 2'-1" AND #5 BARS 2'-7".
7. VERTICAL REINFORCING SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING AT INTERVALS NOT EXCEEDING 8 FEET USING GALVANIZED STEEL WIRE CENTERING CLIPS.
8. HORIZONTAL JOINT REINFORCEMENT:
   (A) JOINT REINFORCEMENT IN CMU WALLS SHALL BE LADDER TYPE AT 16" OC VERTICAL SPACING WITH 9 GAGE SIDE RODS AND 9 GAGE CROSS RODS. TRI-ROD TYPE SHALL BE USED AT CAVITY WALLS, UNLESS OTHERWISE SHOWN ON THE ARCHITECTURAL DRAWINGS. LAP SIDE RODS 12" AT SPLICES. SIDE RODS SHALL HAVE 5/8" MINIMUM MORTAR COVER AT EXPOSED SIDES OF EXTERIOR WALLS AND 1/2" MINIMUM MORTAR COVER AT INTERIOR WALLS.
   (B) JOINT REINFORCEMENT IN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A153, CLASS B2 (1.50 OZ/SF). JOINT REINFORCEMENT FOR INTERIOR WALLS SHALL BE MILL GALVANIZED IN ACCORDANCE WITH ASTM A641, CLASS I (0.1 OZ/SF).
   (C) PROVIDE FACTORY FABRICATED TEES AND CORNERS AT CMU WALL INTERSECTIONS.
9. CONTROL JOINT SPACING SHALL NOT EXCEED 40 FEET IN STRAIGHT RUNS OF WALL. IF JOINT LOCATIONS ARE NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, CONSULT WITH THE ARCHITECT FOR APPROVAL OF JOINT LOCATIONS.
10. SEE THE DRAWINGS OF ALL OTHER DISCIPLINES FOR OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
11. ALL OF THE MASONRY SIZES AND CONDITIONS SHOWN ON THIS DRAWINGS MAY NOT BE PRESENT ON THIS JOB.
12. CONDITIONS SHOWN ON THIS DRAWING REPRESENT MINIMUM REQUIRED REINFORCING. SEE THE OTHER STRUCTURAL DRAWINGS FOR SPECIAL CASES.



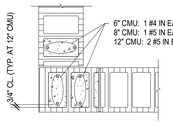
1 S401 TYPICAL BEAM BEARING ON MASONRY WALL

3/4" = 1'-0"

CMU WALL REINFORCING SCHEDULE			
CMU TYPE	VERTICAL REINFORCING	BOND BEAM REINFORCING	MAXIMUM BOND BEAM SPACING
8" EXTERIOR	#5 @ 32" OC	(1) #5	4'-0"
8" INTERIOR	#5 @ 32" OC	(1) #5	4'-0"
12" EXTERIOR	(2) #5 @ 32" OC	(2) #5	4'-0"
12" INTERIOR	(2) #5 @ 32" OC	(2) #5	4'-0"

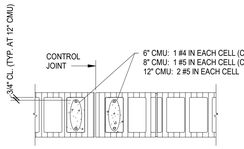
NOTE: PROVIDE BOND BEAMS AS SHOWN IN TYPICAL CMU WALL ELEVATION.

BEARING PLATE SCHEDULE			
MARK	PLATE SIZE	ANCHOR SIZE	REMARKS
BP1	7" X 8" X 1/2"	(2) 3/4" DIA. X 16" LONG	SEE DETAILS 1 OR 3 THIS DWG.



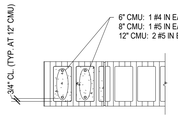
VERTICAL REINFORCING AT CORNERS AND ENDS OF WALLS

NO SCALE



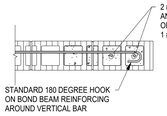
VERTICAL REINFORCING AT CONTROL JOINTS

NO SCALE



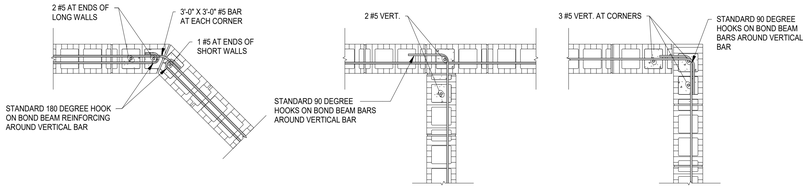
VERTICAL REINFORCING AT JAMBS OF OPENINGS

NO SCALE



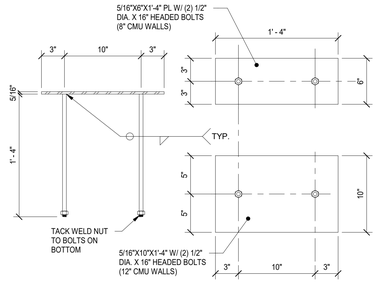
BOND BEAM REINFORCING AT JAMBS OF OPENINGS

NO SCALE



BOND BEAM AND VERTICAL REINFORCING AT WALL INTERSECTIONS

NO SCALE

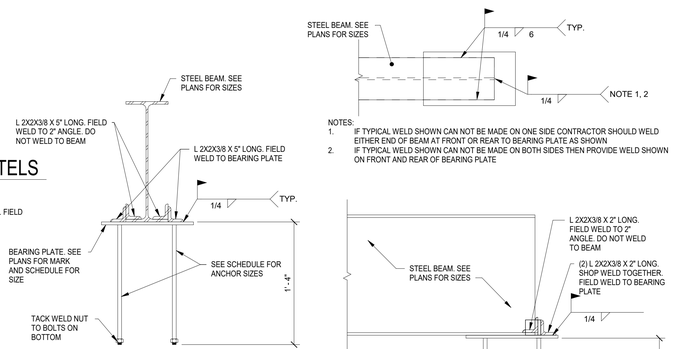


TYPICAL LINTEL WELDING DETAIL TO STEEL BEARING PLATES	
W8 BEAMS	1/8 2
W16 BEAMS	1/4 2
W24 BEAMS	1/4 4

2 S401 BEARING PLATE DETAILS FOR LINTELS

1 1/2" = 1'-0"

NOTES:
1. PROVIDE BEARING PLATE AS SHOWN ABOVE FOR ALL STEEL LINTEL BEAM. FIELD WELD BEAMS TO TOP OF PLATE AS SHOWN BELOW.



NOTES:
1. IF TYPICAL WELD SHOWN CAN NOT BE MADE ON ONE SIDE CONTRACTOR SHOULD WELD EITHER END OF BEAM AT FRONT OR REAR TO BEARING PLATE AS SHOWN
2. IF TYPICAL WELD SHOWN CAN NOT BE MADE ON BOTH SIDES THEN PROVIDE WELD SHOWN ON FRONT AND REAR OF BEARING PLATE

3 S401 SECTION

1 1/2" = 1'-0"

NOTES:
1. AT CONTRACTORS OPTION, THESE BEARING PLATE DETAILS MAY BE USED IN LIEU OF ANCHOR BOLTS THRU SLOTTED BEAM FLANGE AND BEARING PLATE.
2. THIS CONDITION OCCURS ON ONE END OF BEAMS GREATER THAN 36'-0" IN LENGTH. THE OTHER END IS WELDED TO BEAM BEARING PLATE USING 1/4" FILLET WELD X 6" LONG EACH SIDE OF FLANGE. WHERE BEAMS ARE LESS THAN 36'-0", BOTH ENDS MAY BE WELDED TO BEARING PLATES.

LINTEL SCHEDULE

MARK	DESCRIPTION	SHAPE (8" CMU SHOWN 12" CMU SIMILAR)	END BRG EACH END	REMARKS
L1	8" OR 12" CMU BOND BEAM w/ 2 #5 BOTTOM FILL WITH GROUT	EXTEND WALL REINF. 5" MIN INTO BOND BM	2'-0"	OPENINGS IN 8" OR 12" CMU WALLS 4'-0" WIDE AND UNDER
L2	8" OR 12" CMU BOND BEAM + 8" OR 12" OPEN BOTTOM BOND BEAM W/ 2 #6 TOP & BOTTOM + #3 "Z" BARS AT 16" OC FILL WITH GROUT	EXTEND WALL REINF. 5" MIN INTO BOND BM	2'-0"	OPENINGS IN 8" OR 12" CMU WALLS 4'-1" TO 8'-4" WIDE
L3	W8 X 15 + 7"X 1/4" OR 11"X 1/4" PL (STOP PL 1/2" BEFORE OPENING END) 3/4" DIA. X 6" STUDS @ 16" OC SHOP WELDED TO TOP BEAM PROVIDE 8" OR 12" CMU BOTTOM BOND BEAM W/ 1 #5 IN 8" BOND BM AND 2 #5 IN 12" BOND BEAM FILLED WITH GROUT (MASONRY AROUND BEAM NOT SHOWN FOR CLARITY)	FIELD WELD WALL REINF TO TOP BM; 7" OR 11"	8" STL BM BEARING 2'-0" BOND BEAM BEARING	OPENINGS IN 8" OR 12" CMU WALLS 8'-4" TO 12'-0" WIDE (HOT DIP GALV. ALL STEEL BEAMS IN EXTERIOR WALLS)
L4	W16 X 26 OR SEE DWGS + 7"X 1/4" OR 11"X 1/4" PL (STOP PL 1/2" BEFORE OPENING END) 3/4" DIA. X 6" STUDS @ 16" OC SHOP WELDED TO TOP BEAM PROVIDE 8" OR 12" CMU BOTTOM BOND BEAM W/ 1 #5 IN 8" BOND BM AND 2 #5 IN 12" BOND BEAM FILLED WITH GROUT (MASONRY AROUND BEAM NOT SHOWN FOR CLARITY)	FIELD WELD WALL REINF TO TOP BM; 7" OR 11"; PROVIDE WALL TIES EACH SIDE FOR MASONRY ENCASMENT AAROUND BM	1'-4" STL BM BEARING 2'-0" BOND BEAM BEARING	OPENINGS IN 8" OR 12" CMU WALLS 12'-0" WIDE AND GREATER (HOT DIP GALV. ALL STEEL BEAMS IN EXTERIOR WALLS)
L5	8" OR 12" CMU BOND BEAM W/ 2 #5 BOTTOM FILL WITH GROUT + BENT PLATE 7 5/8" X 4" X 5/16"	1' - 4" OR 1'-8"; EXTEND WALL REINF. 5" MIN INTO BOND BM	8" BENT PL BEARING 2'-0" BOND BEAM BEARING	OPENINGS IN 1'-4" OR 1'-8" VENEER + CMU WALLS 4'-0" WIDE AND UNDER (HOT DIP GALV. BENT PLATES)
L6	8" OR 12" CMU BOND BEAM + 8" OR 12" OPEN BOTTOM BOND BEAM W/ 2 #6 TOP & BOTTOM + #3 "Z" BARS AT 16" OC FILL WITH GROUT + BENT PLATE 7 5/8" X 4"X5/16" FOR OPENINGS OVER 6'-4" PROVIDE 3/4" EXPAN. BOLT (4" EMBED) TO CMU AT CENTERLINE OF OPENING AS SHOWN IN REMARKS	EXTEND WALL REINF. 5" MIN INTO LOWER BOND BM	8" BENT PL BEARING 2'-0" BOND BEAM BEARING	OPENINGS IN 1'-4" OR 1'-8" VENEER + CMU WALLS 4'-1" TO 8'-4" WIDE (HOT DIP GALV. BENT PLATES); 2 1/2"; 6"; EQ; EQ; OPENINGS 6'-4" TO 8'-4"
L7	W8 X 15 + 1'-3"X 5/16" OR 1'-7"X 5/16" PL (STOP PL 1/2" BEFORE OPENING END) 3/4" DIA. X 6" STUDS @ 16" OC SHOP WELDED TO TOP BEAM PROVIDE 8" OR 12" CMU BOTTOM BOND BEAM W/ 1 #5 IN 8" BOND BM AND 2 #5 IN 12" BOND BEAM FILLED WITH GROUT (MASONRY AROUND BEAM NOT SHOWN FOR CLARITY)	1' - 4" OR 1'-8"; FIELD WELD WALL REINF TO TOP BM	8" STL BM BEARING 2'-0" BOND BEAM BEARING	OPENINGS IN 1'-4" OR 1'-8" VENEER + CMU WALLS 8'-4" TO 12'-0" WIDE (HOT DIP GALV. ALL STEEL BEAMS IN EXTERIOR WALLS)
L8	W16 X 26 (OR SEE DWGS) + 1'-3"X 5/16" OR 1'-7"X 5/16" PL (STOP PL 1/2" BEFORE OPENING END) 3/4" DIA. X 6" STUDS @ 16" OC SHOP WELDED TO TOP BEAM PROVIDE 8" OR 12" CMU BOTTOM BOND BEAM W/ 1 #5 IN 8" BOND BM AND 2 #5 IN 12" BOND BEAM FILLED WITH GROUT (MASONRY AROUND BEAM NOT SHOWN FOR CLARITY)	1' - 4" OR 1'-8"; FIELD WELD WALL REINF TO TOP BM; PROVIDE WALL TIES EACH SIDE FOR MASONRY ENCASMENT AAROUND BM	1'-4" STL BM BEARING 2'-0" BOND BEAM BEARING	OPENINGS IN 1'-4" OR 1'-8" VENEER + CMU WALLS GREATER THAN 12'-0" WIDE (HOT DIP GALV. ALL STEEL BEAMS IN EXTERIOR WALLS)

NOTES:
1. SEE ARCHITECTURAL CEILING PLANS, WINDOW AND DOOR ELEVATIONS, AND DOOR HEAD DETAILS TO SET HEIGHTS OF ALL LINTELS.
2. ALL LINTEL HEIGHTS SHOWN ON STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE SETTING ANY LINTELS.
3. VERIFY LOCATIONS AND SIZES OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE LINTELS AS SHOWN ABOVE FOR ALL OPENINGS PER OPENING SIZES SHOWN IN THE LINTEL SCHEDULE.

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA TIMMERMAN STRUCTURAL ENGINEERING GROUP No. 5537 CERTIFICATE OF AUTHORIZATION

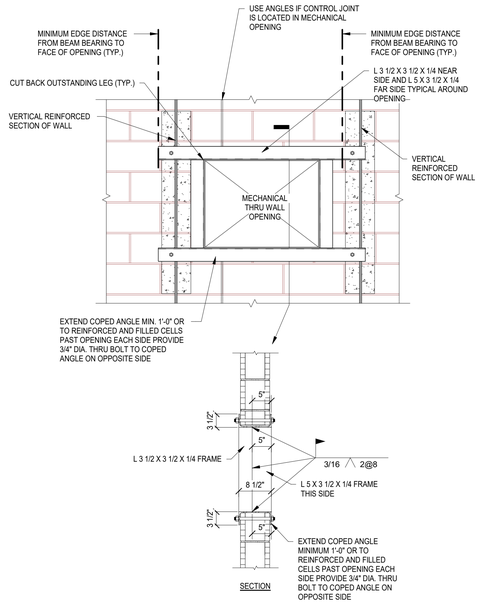
REGISTERED PROFESSIONAL ENGINEER No. 11150 01.10.23 WILLIAM TIMMERMAN

TSEG #22-561

BID DOCUMENTS

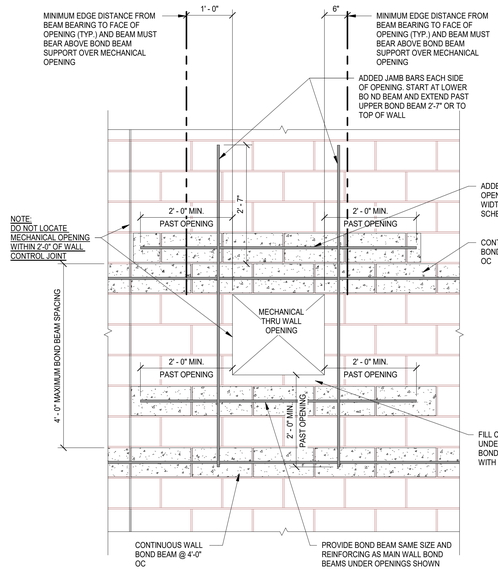
No	Description	Date

DRAWN BY: LWK
CHECKED BY: KT
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: MASONRY WALL DETAILS & LNTEL SCHEDULE
SHEET NO: S401



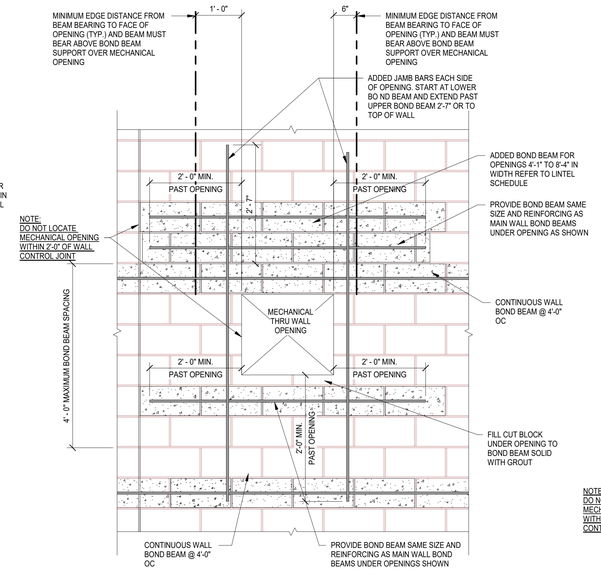
REPAIR OF MECHANICAL OPENING THRU CMU WALLS

NOTES:
1. USE THIS REPAIR WHERE LOWER OR UPPER BOND BEAMS HAVE NOT BEEN INSTALLED, MECHANICAL OPENING HAS BEEN SAW CUT INTO WALL OR CONTROL JOINT LOCATED IN OPENING. FOR JOIST OR BEAMS LOCATED OVER THE OPENING, CONTACT THE STRUCTURAL ENGINEER FOR GUIDANCE.
2.



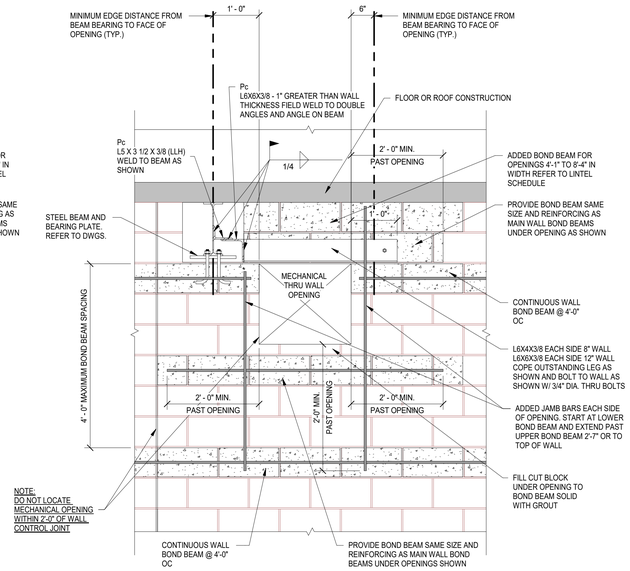
ELEVATION OF MECHANICAL OPENING THRU CMU WALL BETWEEN CONTINUOUS WALL BOND BEAMS

NOTES:
1. MAIN WALL REINFORCING AND CONTROL JOINT REINFORCING NOT SHOWN FOR CLARITY.
2. FOR JOIST OR BEAMS LOCATED OVER THE MECHANICAL OPENING, CONTACT STRUCTURAL ENGINEER FOR GUIDANCE.



ELEVATION OF MECHANICAL OPENING THRU CMU WALL INTERRUPTING CONTINUOUS WALL BOND BEAMS

NOTES:
1. MAIN WALL REINFORCING AND CONTROL JOINT REINFORCING NOT SHOWN FOR CLARITY.
2. FOR JOIST OR BEAMS LOCATED OVER THE MECHANICAL OPENING, CONTACT STRUCTURAL ENGINEER FOR GUIDANCE.



ELEVATION OF MECHANICAL OPENING THRU CMU WALL WHERE STEEL BEAM BEARS INTO OPENING SUPPORT BOND BEAMS

NOTES:
1. MAIN WALL REINFORCING AND CONTROL JOINT REINFORCING NOT SHOWN FOR CLARITY.
2. FOR JOIST OR BEAMS LOCATED OVER THE MECHANICAL OPENING, CONTACT STRUCTURAL ENGINEER FOR GUIDANCE.

CONCRETE POST-INSTALLED ANCHOR TABLE

TYPE	MANUFACTURER	PRODUCT	DIAMETER/SIZE	
SCREW ANCHOR	HILTI	KWIK HUS-EZ (KH-EZ)	1/4" TO 3/4"	
	POWERS	WEDGE-BOLT+ w/ WEDGE BIT	3/8" TO 3/4"	
	SIMPSON	TITEN HD	3/8" TO 3/4"	
ROD ANCHOR	HILTI	KWIK HUS-EZ -1	3/8" TO 1/2"	
	POWERS	VERTIGO + w/ WEDGE BIT	1/4" TO 1/2"	
		SNAKE +	3/8" TO 1/2"	
	SIMPSON	TITEN HD ROD HANGER	3/8", 1/2"	
EXPANSION ANCHOR	HILTI	KWIK BOLT TZ	1/4" TO 1"	
	POWERS	POWER-STUD + SD1	3/8" TO 1"	
	SIMPSON	STRONG-BOLT 2	3/8" TO 5/8"	
ADHESIVE ANCHOR	HILTI	HIT-HY 200 V3 SAFE SET	ALL THREAD ROD	3/8" TO 1 1/4"
			REBAR	#3 TO #8
		HIT-RE 500 V3 SAFE SET	ALL THREAD ROD	3/8" TO 1 1/4"
			REBAR	#3 TO #10
	POWERS	PE1000+	ALL THREAD ROD	1/2" TO 7/8"
			REBAR	#3 TO #7
	SIMPSON	SET-3G	ALL THREAD ROD	3/8" TO 1 1/4"
			REBAR	#3 TO #10
		AT-XP	ALL THREAD ROD	3/8" TO 1 1/4"
			REBAR	#3 TO #10

NOTES:
1. THIS SELECTION TABLE SHALL BE USED WHEN ANCHOR RODS OR REBARS WITH ANCHOR ADHESIVE, EXPANSION ANCHORS OR SCREW ANCHORS ARE CALLED OUT ON THE DRAWINGS. THE ADHESIVES SHOWN SHALL ALSO BE USED WHERE THE TERM "EPOXY IS USED ON THE STRUCTURAL DRAWINGS.
2. ADHESIVE ANCHORS HOLES SHALL BE CLEANED PER THE MANUFACTURER RECOMMENDATIONS INCLUDING USING A BRUSH AND 100 PSI MINIMUM OR THE MANUFACTURERS REQUIRED COMPRESSED AIR.
3. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S PRINTED INSTALLATION INSTRUCTIONS. (MP11)
4. SCREW AND EXPANSION ANCHORS SHALL MEET THE EMBEDMENT DEPTHS AS SPECIFIED IN THE DRAWINGS BUT NOT LESS THAN THE MINIMUM OF 7 TIMES THE ANCHOR DIAMETER
5. ADHESIVE ANCHORS SHALL MEET THE EMBEDMENT DEPTHS AS SPECIFIED IN THE DRAWINGS. IF NO EMBEDMENT IS SPECIFIED, EMBED 12 TIMES THE ANCHOR DIAMETER.
6. CONTACT THE ENGINEER OF RECORD FOR APPROVAL OF ANY OTHER ANCHOR TYPE OR DIAMETER PRIOR TO INSTALLATION

MASONRY POST-INSTALLED ANCHOR TABLE

TYPE	MANUFACTURER	PRODUCT	BASE MATERIAL	DIAMETER/SIZE	
SCREW ANCHOR	HILTI	KWIK HUS-EZ	GROUTED CONCRETE BLOCK	1/4" TO 3/4"	
	POWERS	WEDGE-BOLT+ w/ WEDGE BIT	GROUTED CONCRETE BLOCK	1/4" TO 3/4"	
	SIMPSON	TITEN HD	GROUTED CONCRETE BLOCK	3/8" TO 3/4"	
EXPANSION ANCHOR	HILTI	KWIK BOLT	GROUTED CONCRETE BLOCK	1/4" TO 3/4"	
	POWERS	POWER-STUD + SD1	GROUTED CONCRETE BLOCK	3/8" TO 5/8"	
	SIMPSON	WEDGE ALL	GROUTED CONCRETE BLOCK	3/8" TO 3/4"	
ADHESIVE ANCHOR	HILTI	HIT-HY 270	GROUTED CONCRETE BLOCK	ALL THREAD ROD	1/4" TO 3/4"
		HIT-HY 270	HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD	3/4"
				REBAR	#4 TO #6
	POWERS	T308+	FULLY GROUTED	ALL THREAD ROD	3/4"
			HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD	3/4"
				REBAR	#5 , #6
	SIMPSON	SET	FULLY GROUTED	ALL THREAD ROD	1/2" TO 3/4"
			HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD	5/8" AND 3/4"
		SET-XP	FULLY GROUTED	ALL THREAD ROD	3/8" TO 3/4"
			HOLLOW CONCRETE BLOCK (REQUIRES SCREEN TUBES)	ALL THREAD ROD	3/8" TO 5/8"

NOTES:
1. THIS SELECTION TABLE SHALL BE USED WHEN ANCHOR RODS OR REBARS WITH ANCHOR ADHESIVE, EXPANSION ANCHORS OR SCREW ANCHORS ARE CALLED OUT ON THE DRAWINGS. THE ADHESIVES SHOWN SHALL ALSO BE USED WHERE THE TERM "EPOXY IS USED ON THE STRUCTURAL DRAWINGS.
2. ADHESIVE ANCHORS HOLES SHALL BE CLEANED PER THE MANUFACTURER RECOMMENDATIONS INCLUDING USING A BRUSH AND 100 PSI MINIMUM OR THE MANUFACTURERS REQUIRED COMPRESSED AIR.
3. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S PRINTED INSTALLATION INSTRUCTIONS. (MP11)
4. SCREW AND EXPANSION ANCHORS SHALL MEET THE EMBEDMENT DEPTHS AS SPECIFIED IN THE DRAWINGS BUT NOT LESS THAN THE MINIMUM OF 7 TIMES THE ANCHOR DIAMETER
5. ADHESIVE ANCHORS SHALL MEET THE EMBEDMENT DEPTHS AS SPECIFIED IN THE DRAWINGS. IF NO EMBEDMENT IS SPECIFIED, EMBED 12 TIMES THE ANCHOR DIAMETER.
6. CONTACT THE ENGINEER OF RECORD FOR APPROVAL OF ANY OTHER ANCHOR TYPE OR DIAMETER PRIOR TO INSTALLATION

1 S402 BEAM BEARING FOR MIS-INSTALLED BEARING PLATE

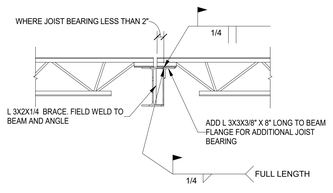
3/4" = 1'-0"

NOTES:
1. IF BEARING PLATE PROTRUDES PROVIDE SHIM SAME THICKNESS AS EXISTING BEARING PLATE AND WELD TO TOP ANGLE AND BEAM.
2. USE THESE DETAILS FOR ADDITIONAL SUPPORT OF BEAMS THAT HAVE BEEN MISALIGNED TO BEARING PLATES OR REQUIRED DUE TO INSPECTION.
3. IF THRU BOLTS CAN NOT BE USED USE 3/4" DIAMETER EPOXY ANCHORS WITH MINMUM 5" EMBEDMENT.

2 S402 ADDED ANGLE FOR JOIST SUPPORT

3/4" = 1'-0"

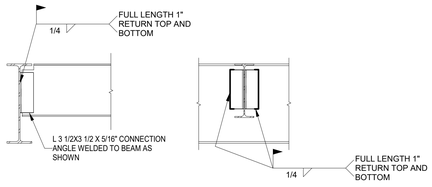
NOTES:
1. CONTRACTOR TO GET APPROVAL FROM STRUCTURAL ENGINEER BEFORE USING THIS DETAIL.
2. USE THIS DETAIL FOR ADDITIONAL SUPPORT OF JOISTS THAT HAVE BEEN MISALIGNED TO BEARING PLATES OR REQUIRED DUE TO INSPECTION.



3 S402 ADDED ANGLE TO BEAM FOR JOIST SUPPORT

3/4" = 1'-0"

NOTES:
1. CONTRACTOR TO GET APPROVAL FROM STRUCTURAL ENGINEER BEFORE USING THIS DETAIL.
2. USE THIS DETAIL WHERE JOIST NEED ADDITIONAL BEARING DUE MISALIGNMENT, FIELD CONDITIONS ETC



4 S402 BEAM CONNECTION WELDING DETAIL

3/4" = 1'-0"

NOTES:
1. CONTRACTOR TO GET APPROVAL FROM STRUCTURAL ENGINEER BEFORE USING THIS DETAIL.
2. USE THIS DETAIL WHERE BEAMS NEED TO BE WELDED DUE MISALIGNMENT, FIELD CONDITIONS, ETC.
3. IF CONNECTION ANGLES NEEDS TO BE ADDED TO BEAM, WELD TO BEAM WITH 1/4" FILLET WELD 3 SIDES.

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA TIMMERMAN STRUCTURAL ENGINEERING GROUP No. 557 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 11150 01.10.23 WILLIAM T. TIMMERMAN

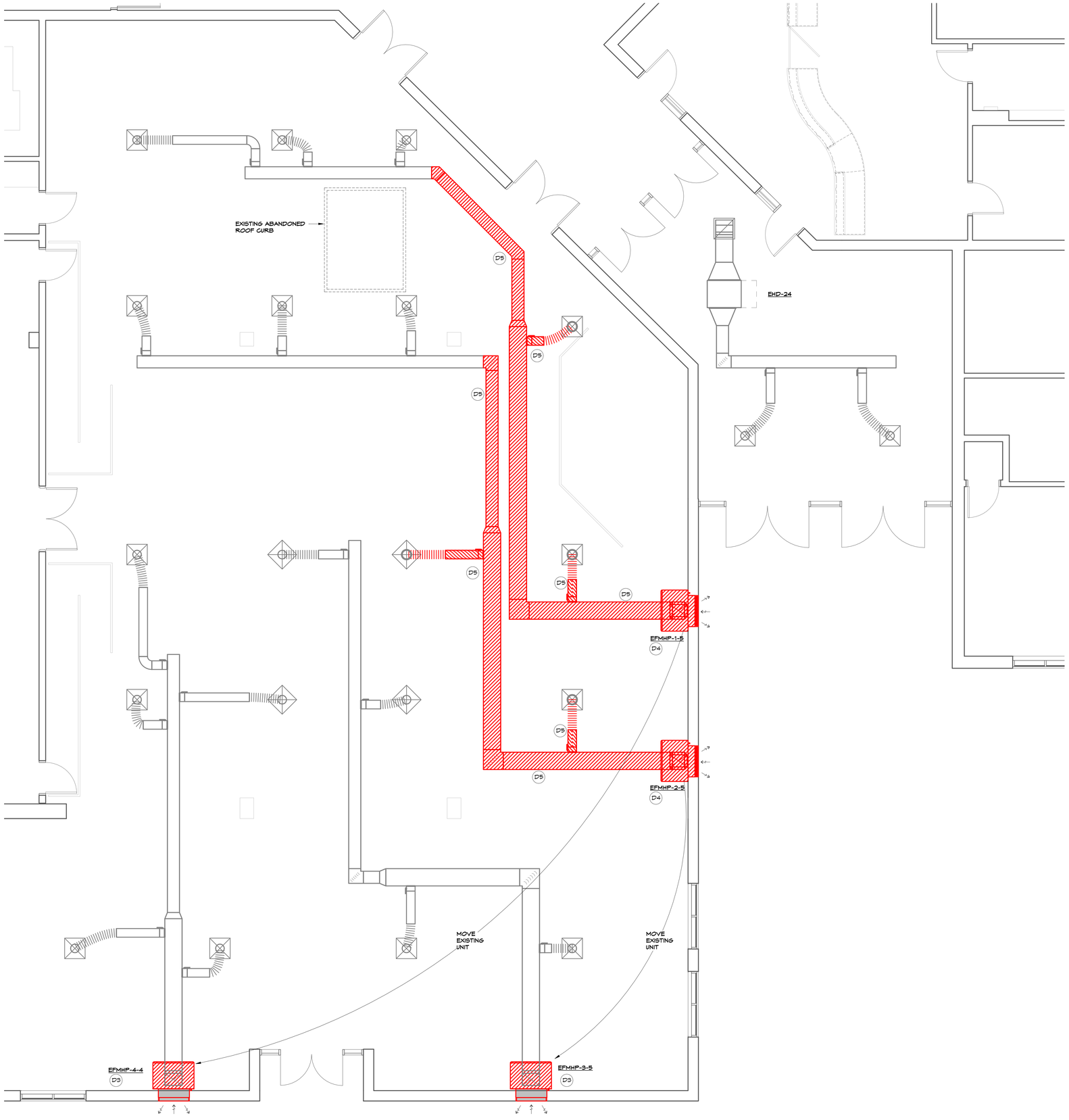
TSEG #22-561

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

BID DOCUMENTS

No	Description	Date

DRAWN BY: LWK
CHECKED BY: KT
COMM NO: 22016
DATE: JANUARY 10, 2023
SHEET TITLE: TYPICAL DETAILS AND SCHEDULES
SHEET NO: S402



HVAC DEMOLITION FLOOR PLAN
1/4" = 1'-0"

DEMOLITION NOTES

D1 ALL HVAC MATERIAL AND EQUIPMENT REQUIRED TO BE DEMOLISHED OR MADE OBSOLETE BY THE SCOPE OF THIS WORK SHALL BE REMOVED FROM THE WORK SPACE. THE OWNER HAS THE FIRST RIGHT TO REFUSAL FOR ALL EQUIPMENT AND MATERIAL OF VALUE. TURN OVER ANY ITEMS FLAGGED BY THE OWNER TO KEEP AND DELIVER UNDAMAGED TO THE LOCATION ON SITE WHERE DIRECTED BY THE OWNER. ALL OTHER DEMOLISHED ITEMS NOT RETAINED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE IN ITS ENTIRETY.

D2 THE CONTRACTOR SHALL REMOVE AND RECOVER ALL REFRIGERANT FROM THE EXISTING AIR HANDLER PRIOR TO THE REMOVAL OF THE REFRIGERANT SYSTEM. THE REMOVAL OF REFRIGERANT SHALL MAXIMIZE RECOVERY AND RECYCLING OF OZONE DEPLETING SUBSTANCES (BOTH CLOROFLOROCARBONS (CFCs) AND HYDROCHOROFLOROCARBONS HCFCs) AND THEIR BLENDS) DURING DISPOSAL OF ALL AIR CONDITIONING AND REFRIGERANT EQUIPMENT.

D3 REMOVE EXISTING UNIT COMPLETE. REPLACE WITH EXISTING UNIT AS NOTED.

D4 REMOVE AND RELOCATE EXISTING UNIT TO NEW LOCATION.

D5 REMOVE DUCTWORK AS INDICATED BY HATCHING. PROVIDE NEW AS INDICATED ON RENOVATION FLOOR PLANS

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

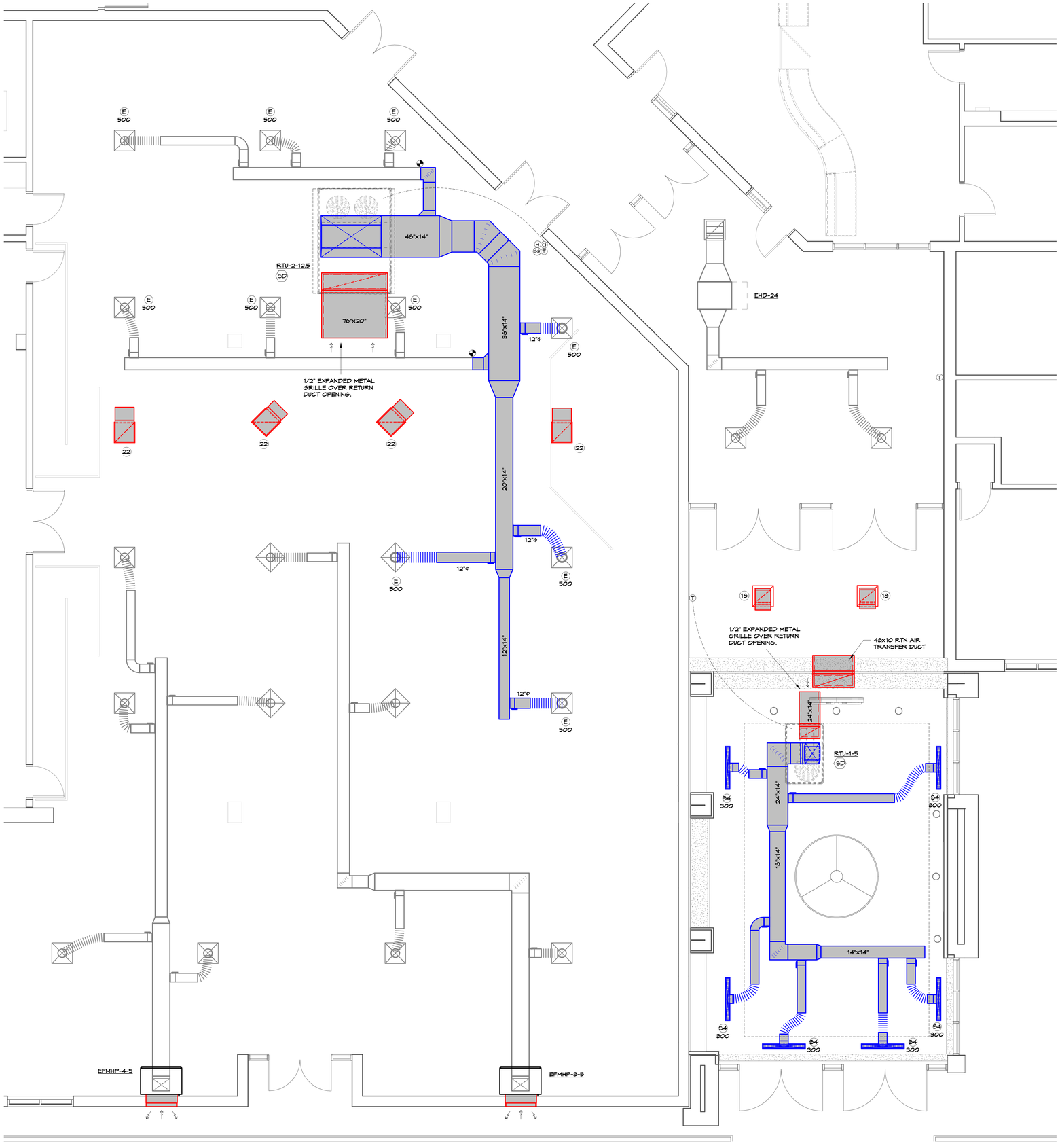
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CONSTRUCTION DOCUMENTS

NO	Description	Date

DRAWN BY: JJV
CHECKED BY: JJV
COMM NO: 22016
DATE: JAN 2023
SHEET TITLE: HVAC DEMOLITION FLOOR PLAN
SHEET NO: M001

MECHANICAL DESIGN INC.
4403 Broad River Road
Columbia, S.C. 29210
T: (803) 731-9834
F: (803) 731-9837
CONTACT: Justin Varco COMM. NO. 223854



HVAC RENOVATION FLOOR PLAN - NEW LOBBY

1/4" = 1'-0"

RATED WALL INDICATIONS

- 1 HOUR WALL
- 2 HOUR WALL
- 3 HOUR WALL
- SMOKE-RATED WALL SEALED TO DECK

NOTES:

1. VERIFY RATED FLOOR AND WALL ASSEMBLY TYPES AND LOCATIONS WITH ARCHITECTURAL FLOOR PLANS.
2. SEAL ALL DUCT AND PIPE PENETRATIONS THROUGH FLOORS AND SMOKE RATED WALL ASSEMBLIES WITH ANGLE AND CAULK.
3. PROVIDE UL RATED ASSEMBLIES ON ALL DUCT AND PIPE PESNETRATIONS THROUGH RATED WALL AND FLOOR ASSEMBLIES.

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CONSTRUCTION DOCUMENTS

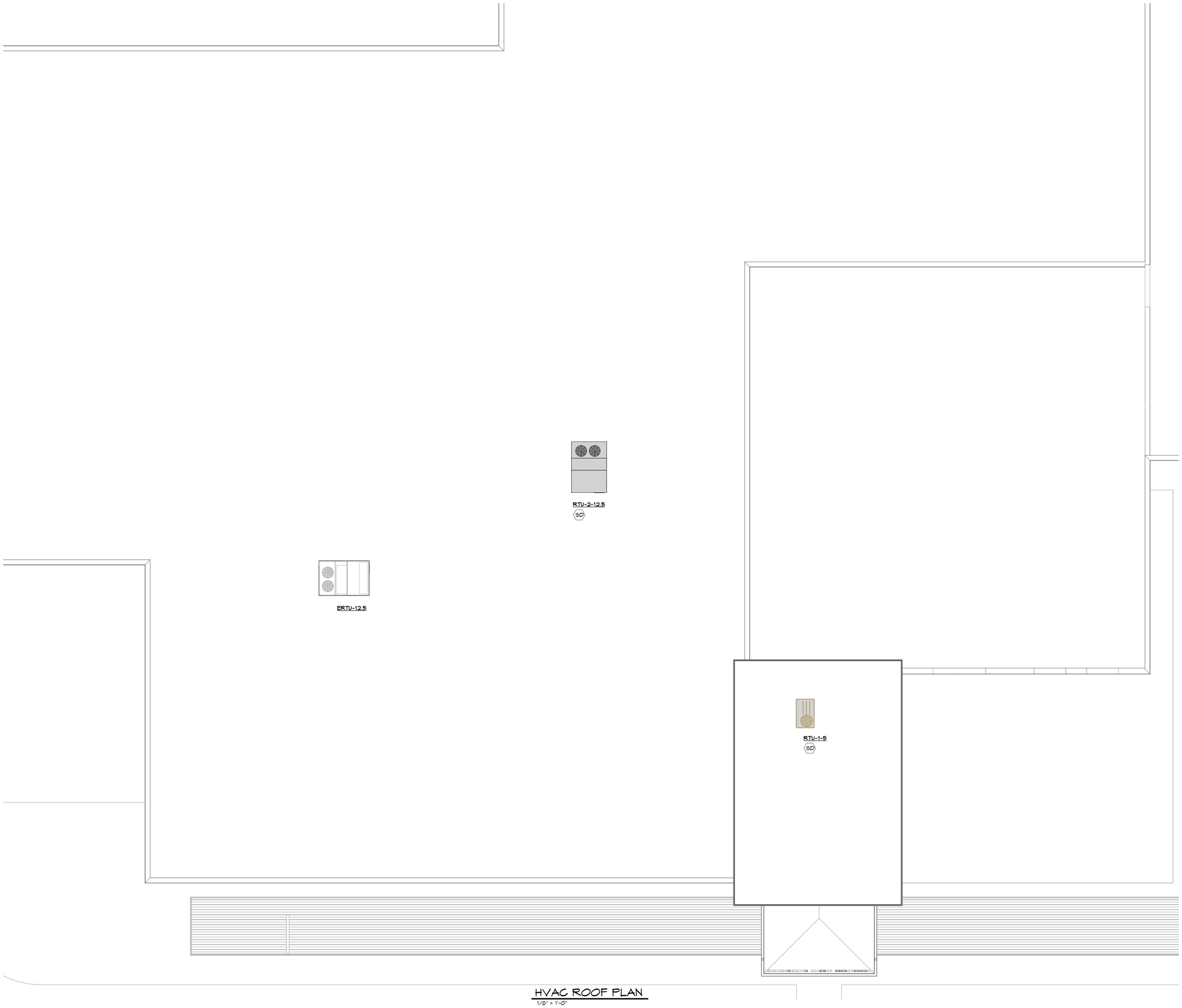
NO	Description	Date

DRAWN BY: JJV
CHECKED BY: JJV
COMM NO: 22016
DATE: JAN 2023
SHEET TITLE: HVAC RENO FLOOR PLAN - NEW LOBBY
SHEET NO: M101

MECHANICAL DESIGN INC.
4403 Broad River Road
Columbia, S.C. 29210
T: (803) 731-9834
F: (803) 731-9837
CONTACT: Justin Varco
COMM. NO. 223854

NOTES

1. CONDENSATE DRAIN LINES SHALL BE TYPE "L" COPPER. WITH UNION CONNECTION. (SEE DETAIL)
2. ROUTE CONDENSATE TO NEAREST ROOF DRAIN, SCUPPER, OR GUTTER. MINIMUM SIZE DRAIN LINE SHALL BE 1" OR NO SMALLER THAN THE EQUIPMENT CONNECTION SIZE WHICHEVER IS LARGER.
3. TURN CONDENSATE PIPING DOWN INTO DRAINS WITH AN ELBOW AT TERMINATION.
4. SUPPORT DRAIN LINES WITH PIPE SUPPORTS AT NOT MORE THAN 8'-0" ON CENTER AND AT EACH CHANGE IN DIRECTION. (SEE DETAIL)
5. SLOPE PIPING A MINIMUM OF 1/8TH OF AN INCH PER FOOT.
6. COORDINATE CLEARANCES FOR EQUIPMENT SERVICE AND FRESH AIR INTAKES WITH OTHER TRADES. MAINTAIN MINIMUM DISTANCES REQUIRED BY MANUFACTURER. INTAKES SHALL NOT BE LOCATED WITHIN 15'-0" OF PLUMBING VENTS OR EXHAUST OUTLETS.
7. COORDINATE ROOFING REQUIREMENTS AND FLASHING CLEARANCES WITH ROOFER PRIOR TO ORDERING EQUIPMENT, CURBS, RAILS, AND OTHER MECHANICAL SYSTEMS THAT REQUIRE ROOF FLASHING.
8. ROOF CURBS AND EQUIPMENT RAILS SHALL BE INSTALLED LEVEL. COORDINATE ROOF SLOPES PRIOR TO ORDERING. SHIMMED CURBS AND RAILS WILL NOT BE ACCEPTED.
9. ALL SERVICEABLE EQUIPMENT SHALL BE LOCATED MORE THAN 10'-0" FROM THE ROOF EDGE.



HVAC ROOF PLAN
1/8" = 1'-0"

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 2955 21/10/25 SOUTH CAROLINA

NORTH CAROLINA MECHANICAL DESIGN No. 0095 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

CONSTRUCTION DOCUMENTS

No	Description	Date

DRAWN BY: JJV
CHECKED BY: JJV
COMM NO: 22016
DATE: JAN 2023
SHEET TITLE: HVAC ROOF PLAN
SHEET NO: M201

MECHANICAL DESIGN INC.
4403 Broad River Road
Columbia, S.C. 29210
T: (803) 731-9834
F: (803) 731-9837
CONTACT: Justin Varco COMM. NO. 223854

PACKAGED HEAT PUMP SCHEDULE (1)(7)

	MARK	TRANE (2) MODEL	O.A. CFM	AUX. HEAT KW (NET)	INDOOR FAN CFM	INDOOR FAN E.S.P.	INDOOR FAN H.P.	COOLING (3) TOTAL	COOLING (3) SENS.	COOLING (3) ENT.AIR	COOLING (3) SEER	COOLING (3) EER	HEATING @ 47°F (4) TOTAL	HEATING @ 47°F (4) COP	HEATING @ 47°F (4) HSPF
(5)	RTU-1-5	WHC060	150	12.0	1,800	0.45"	1.0	61.0	49.1	80/67	16.2	12.9	57.0	3.6	9.0
(6)	RTU-2-12.5	WSJ150	1,000	36.0	5,000	0.75"	3.0	153.12	107.31	80/67	--	10.6	142.05	3.3	--

(1) ROOF TOP UNIT TO MATCH AVAILABLE ELECTRICAL SERVICE, SEE ELECTRICAL. UNIT SHALL BE SINGLE POINT POWER CONNECTION.

(2) TRANE, OR ACCEPTED EQUAL. (SEE SPECIFICATIONS)

(3) BASED ON 95°F CONDENSER AIR TEMPERATURE.

(4) BASED ON 10°F ENTERING AIR TEMPERATURE.

(5) PROVIDE WITH WELDED ALUMINUM ROOF CURB, HAIL GUARD, HARD WIRED SAFETY CONTROLS, INTERFACE FOR FULL EMS CONTROL, UN-POWERED CONVENIENCE OUTLET, HINGED ACCESS PANELS, STAINLESS STEEL DRAIN PAN, AND MOTOR OPERATED 50% OA HOOD.

(6) PROVIDE WITH WELDED PAINTED ROOF CURB ADAPTOR, HAIL GUARD, HARD WIRED SAFETY CONTROLS, INTERFACE FOR FULL EMS CONTROL, UN-POWERED CONVENIENCE OUTLET, HOT GAS RE-HEAT, HINGED ACCESS PANELS, STAINLESS STEEL DRAIN PAN, AND 100% ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND POWER EXHAUST.

(7) PROVIDE UNIT MULTIPLE STAGES/COMPRESSORS AND 2-STAGE/VFD FAN CONTROLS.

GRILLE AND DIFFUSER SCHEDULE

MARK	SERVICE	NECK SIZE	MAX CFM	RUNOUT SIZE	REMARKS
(18)	RETURN	18"x18"	1,250	18"x12"	W/ OPP. BL. DPR* #
(22)	RETURN	22"x22"	1,800	22"x14"	W/ OPP. BL. DPR* #
S-4	4-SLOT DIFF	6"x48"	350	10"ø	W/ INSUL. PLENUM

GRILLE/ DIFFUSER	MOUNTING TYPE	PRICE # MODEL NO.	MATERIAL
SQUARE SUPPLY	LAY-IN	ASPD-31	ALUMINUM
SQUARE SUPPLY	SURFACE	ASPD-31	ALUMINUM
SQUARE RETURN	LAY-IN	81-TB 1/2"x1/2"x1"	ALUMINUM
SQUARE RETURN	SURFACE	81-F-A 1/2"x1/2"x1"	ALUMINUM
SLOT DIFFUSER	SURFACE	SDBI-15 ###	ALUMINUM

* OR EQUAL BY TITUS, METALAIRE, CARNES, NAILOR, KREUGER OR APPROVED EQUAL.

** CONTRACTOR MAY OMIT DAMPER IN RETURN GRILLES.

PROVIDE SLOT DIFFUSERS WITH FACTORY INSULATED PLENUMS

NOTES:
1. GRILLE AND DIFFUSER LOCATIONS SHOWN ON FLOOR PLANS ARE APPROXIMATE. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.
2. GRILLES AND DIFFUSERS SHALL MATCH CEILING TYPE, SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPE.
3. GRILLE AND DIFFUSER COLORS SHALL BE SELECTED BY ARCHITECT, SUBMIT COLOR SAMPLES TO ARCHITECT.
4. LAY-IN EGGCRATE SHALL HAVE FULL FACE (24x24) AND FULL SIZE STEEL BACK PLATE WITH DUCT CONNECTOR COLLAR. INTERIOR OF GRILLE SHALL BE FLAT BLACK.
5. PROVIDE 36x36 BACK PAN INSULATION BLANKET FOR ALL LAY-IN DIFFUSERS.
6. TRANSFER GRILLE DUCT CONNECTIONS SHALL BE FULL SIZE OF GRILLE NECK.

SYMBOLS

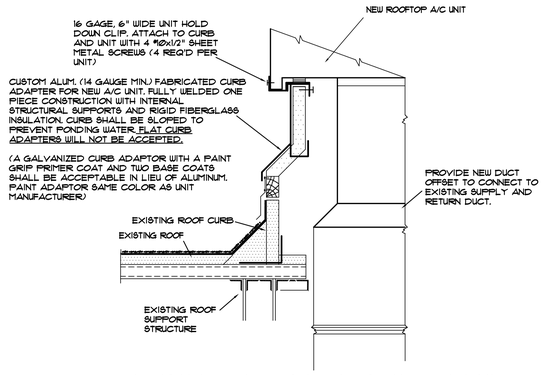
	FLEXIBLE DUCT (6 FT. MAX. LENGTH)
	RIGID ROUND RUNOUT DUCT
	NEW MATERIAL
	MATERIAL TO BE REMOVED
	ACOUSTICALLY LINED DUCT
CFM	AIR FLOWRATE, CUBIC FEET PER MINUTE
(1) 100	GRILLE OR DIFFUSER MARK, BALANCING CFM
	TURNING VANE
	SPLIT DUCT WITH SPLITTER DAMPER
	SPIN-IN TAKEOFF WITH SCOOP AND DAMPER
	MANUAL DAMPER WITH LOCKING QUADRANT
	FLEXIBLE CONNECTION
	MOTOR OPERATED DAMPER, SEE SPECS.
T O H CO2	THERMOSTAT/OVERRIDE/HUMIDISTAT/CO2
S DS TS	SWITCHING DEVICE - WALL/DOOR/TIMER SWITCH
PS E	PULL STATION / EMERGENCY STOP BUTTON
SD	SMOKE DETECTOR
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
AMS	AIR MONITORING STATION
MD-100	MAN. DPR W/ LOCKING QUAD.-BALANCING CFM
	PIPE TURNING DOWN
	PIPE TURNING UP
	CONNECT NEW TO EXISTING

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS.
2. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
3. WHENEVER THE WORD PROVIDE IS USED IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE".
4. ELECTRICAL CHARACTERISTICS SHOWN ON SCHEDULES OR DRAWINGS ARE DESIGN VALUES ONLY AND SHALL BE VERIFIED BEFORE ORDERING EQUIPMENT.
5. PROVIDE "P" TRAP FOR ALL CONDENSATE DRAINS AND SAFETY DRAINS. PROVIDE INSULATED DRAIN LINES FROM ALL DRAIN CONNECTIONS TO FLOOR DRAINS OR DRAINAGE SYSTEM.
6. CONDENSATE DRAIN LINES SHALL BE TYPE "L" COPPER WITH UNION CONNECTION.
7. DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS.
8. UNLESS OTHERWISE NOTED, CEILING RETURN GRILLES SHALL BE THE SAME SIZE AS CEILING SUPPLY GRILLE.
9. MAINTAIN RECOMMENDED CLEARANCES AT EQUIPMENT AS REQUIRED BY THE MANUFACTURE FOR SERVICE.
10. PROVIDE ACOUSTICAL DUCTLINER FOR A MINIMUM OF 15 FEET IN SUPPLY AND RETURN DUCT UNLESS OTHERWISE SHOWN ON DRAWINGS.
11. ALL SUPPLEMENTAL STEEL AND HANGERS REQUIRED FOR THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS SHOWN OTHERWISE IN BID DOCUMENTS.
12. PROVIDE ACCESS DOOR FOR ALL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILINGS. DOOR SHALL BE OF ADEQUATE SIZE TO FACILITATE SERVICE, REPAIR OR REMOVAL OF EQUIPMENT.
13. CONSTRUCT DUCTWORK AS JOB PROGRESSES AND AFTER COORDINATING WITH ALL CONCERNED TRADES AND CONTRACTORS.
14. THERMOSTATS AND OPERABLE CONTROLS DEVICES ACCESSIBLE TO STAFF AND/OR THE PUBLIC SHALL BE MOUNTED PER ANSI STANDARDS.

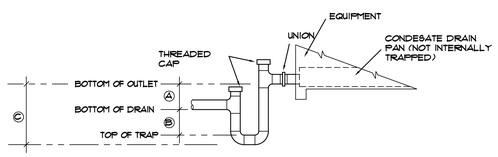
SPECIAL NOTE:
IT IS REQUIRED THAT THE CONTRACTOR VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXIST CONDITIONS RELATING TO THIS PROJECT. SUBMISSION OF A BID WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE OF WORK.

SPECIAL NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEISMIC ATTACHMENT OF THE NEW ROOFTOP UNIT AND CURB ADAPTER TO THE EXISTING ROOF CURB. IF ADEQUATE HOLDDOWN OF THE EXISTING ROOF CURB TO THE STRUCTURE IS NOT EVIDENT (IE 3/8 BOLTS, WELDED CURB TO STRUC, OR STRAPPING) PROVIDE MEANS TO SEISMICALLY ATTACH THE EXISTING CURB TO THE STRUCTURE.



EXISTING CURB AND ADAPTER DETAIL

NOT TO SCALE RTU-2-12.5



Ⓐ 1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE PLUS 1" (2" MINIMUM)

Ⓑ ½ OF DIMENSION A

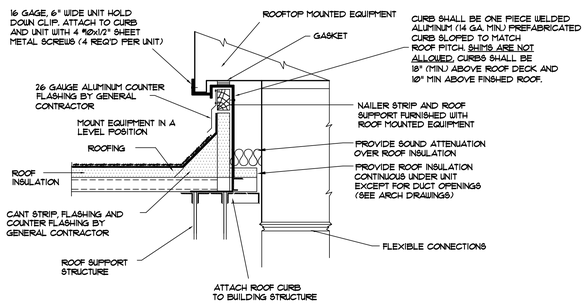
Ⓒ A + B + PIPE DIAMETER (1" MIN)

NOTE:
CONDENSATE DRAIN PIPE SIZE SHALL BE FULL SIZE DRAIN CONNECTION BUT NOT LESS THAN 1" DIAMETER. DRAIN LINE SHALL BE TYPE "L" COPPER

CONDENSATE DRAIN PIPE INSTALLTION DETAIL

NOT TO SCALE

NOTE:
CURB SHALL BE FURNISHED BY EQUIPMENT MANUFACTURER AND SHALL BE INSTALLED AND FLASHED BY GENERAL CONTRACTOR.

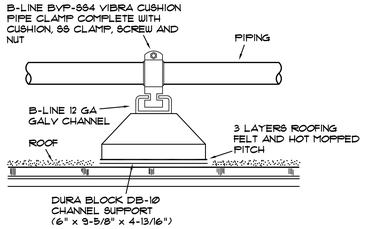


ROOF MOUNTED EQUIPMENT DETAIL

NOT TO SCALE RTU-1-5

NOTE:
THIS DETAIL SHALL APPLY FOR ALL ROOF CURBS INCLUDING CURBS FOR VENTILATING FANS, VENT AND HEAT PUMP UNITS BOTH WITH AND WITHOUT VIBRATION RAILS.

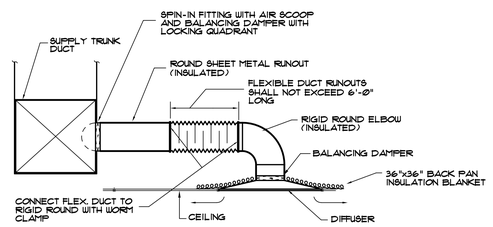
SPECIAL NOTE:
WHERE OPENINGS IN ROOF ARE CUT LARGER THAN REQUIRED FOR DUCT PENETRATION, THE CONTRACTOR SHALL PROVIDE SOUND ABSORBING MATERIAL BETWEEN OPENING AND BOTTOM OF UNIT FOR SOUND REDUCTION.



ROOFTOP PIPE SUPPORT DETAIL

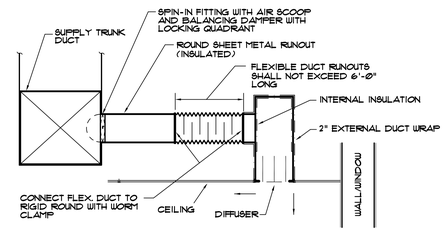
NO SCALE

NOTES:
1. LOCATE PIPE SUPPORTS MAXIMUM 8'-0" ON CENTERS AND AT EACH FITTING.
2. POLYETHYLENE FOAM AND WOOD TIMBERS WILL NOT BE ACCEPTED.



CEILING DIFFUSER INSTALLATION

NOT TO SCALE



CEILING DIFFUSER INSTALLATION - SLOT

NOT TO SCALE

MECHANICAL DESIGN INC.
4403 Broad River Road
Columbia, S.C. 29210
(803) 731-9834
(803) 731-9837 FAX
CONTACT: JUSTIN VARCO
COMM. NO. 223854

Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

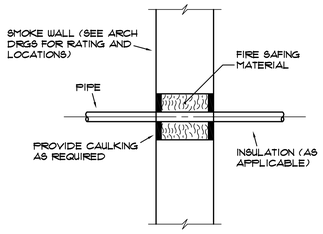
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT 50
GREENWOOD, SOUTH CAROLINA

CONSTRUCTION DOCUMENTS

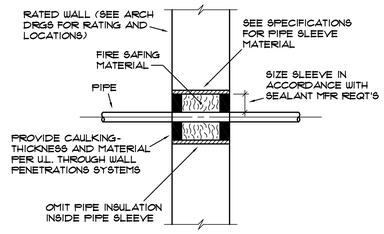
REVISIONS:

No	Description	Date

DRAWN BY: JJV
CHECKED BY: JJV
COMM NO: 21027
DATE: JAN 2023
SHEET TITLE: HVAC SCHEDULES, NOTES, DETAILS, AND SYMBOLS
SHEET NO: M301



SMOKE ASSEMBLY

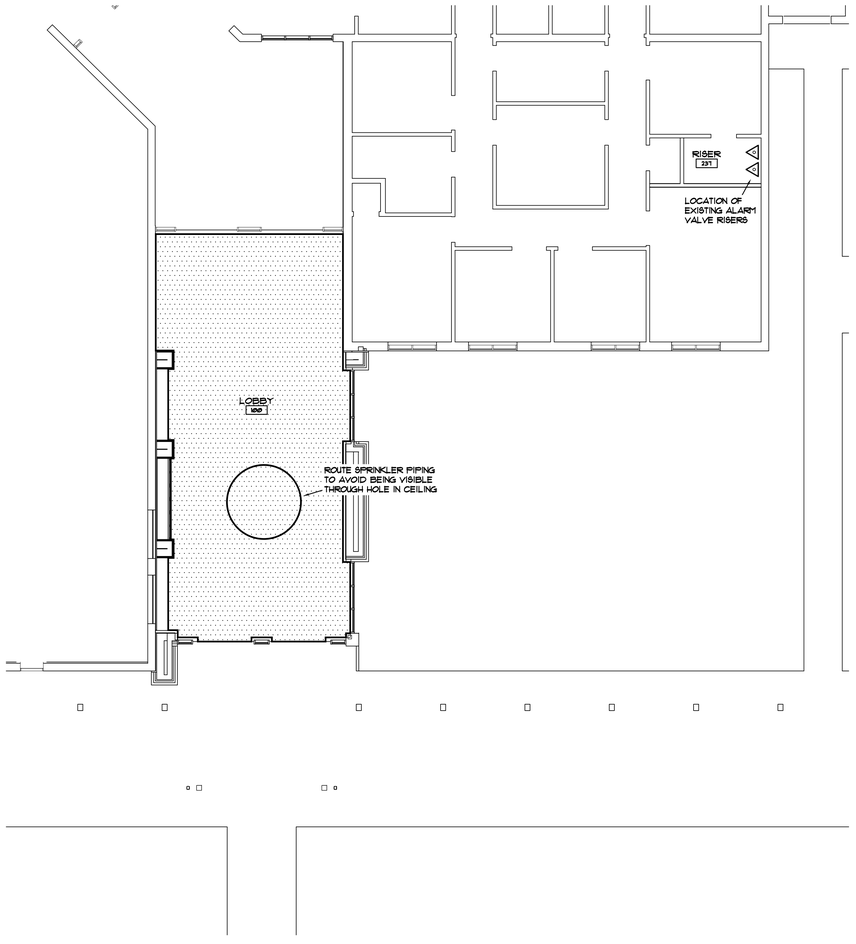


RATED ASSEMBLY

PIPE THRU SMOKE/RATED ASSEMBLY DETAILS

NO SCALE

NOTES:
1. CONTRACTOR SHALL REFER TO ARCHITECTURAL SHEETS FOR LOCATIONS OF ALL RATED WALLS AND ASSEMBLIES. COORDINATE INSTALLATION OF WALL PENETRATION MATERIALS ACCORDINGLY.
3. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS/DATA SHEETS FOR U.L. RATED PIPE PENETRATIONS FOR REVIEW. FAILURE TO COMPLY PRIOR TO INSTALLATION OF CAULKING MATERIALS SHALL REQUIRE THE REMOVAL AND REPLACEMENT OF MATERIALS WITH SPECIFIED PRODUCTS.



SPRINKLER FLOOR PLAN - LOBBY

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

SPRINKLER HATCH KEY

SYMBOL	DESCRIPTION
	LIGHT HAZARD SEMI-RECESSED PENDENT HEADS IN CEILING AND UPRIGHT HEADS ABOVE CEILING

WET PIPE SPRINKLER SYSTEM NOTES

GENERAL: ALL WORK SHALL BE ACCOMPLISHED BY A CERTIFIED AND LICENSED FIRE PROTECTION CONTRACTOR REGULARLY ENGAGED IN THE DESIGN AND INSTALLATION OF FIRE PROTECTION SYSTEMS UNDER THE LAWS OF THE STATE OF SOUTH CAROLINA.

F1. DO NOT SCALE DRAWINGS. ROUGH FROM EXISTING CONDITIONS, ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS. COORDINATE CEILING FINISHES AND HEIGHTS AS APPLICABLE.

F2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA-13, 2013 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES

F3. COORDINATE SPRINKLER SYSTEMS WITH ALL TRADES TO AVOID INTERFERENCE AND CONFLICTS PRIOR TO INSTALLATION OF PIPING, VALVES AND EQUIPMENT.

F4. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.

F5. UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE RUN CONCEALED IN WALLS, SOFFITS, FURRINGS, CHASES AND/OR ABOVE CEILINGS.

F6. PROVIDE SPRINKLER COVERAGE THROUGHOUT BUILDING IN ACCORDANCE WITH SPECIFICATIONS AND HYDRANT FLOW TEST. (SEE NOTE-F1)

F7. CONTRACTOR SHALL PERFORM A FLOW TEST FROM THE CLOSEST FIRE HYDRANT TO THIS SITE TO DETERMINE EXISTING PRESSURE AND FLOW CONDITIONS TO BE USED FOR CALCULATIONS.

F8. CONTRACTOR IS REQUIRED TO NOTIFY ENGINEER MINIMUM (7) DAYS PRIOR TO BID IF PROBLEMS EXIST WITH DESIGN OF SPRINKLER SYSTEM DUE TO EXISTING LINE SIZE AND CURRENT FLOW TEST CONDITIONS.

F9. LOCATE SPRINKLER HEADS IN CENTER OF ENTIRE CEILING TILES. COORDINATE WITH LIGHTING AND MECHANICAL DIFFUSER LOCATIONS PRIOR TO INSTALLATION TO PREVENT CONFLICTS.

F10. CONTRACTOR SHALL PROVIDE "PROOF CALCULATIONS" AS REQUIRED TO VERIFY HYDRAULICS USING CURRENT FIRE FLOW TEST (SEE NOTE-F1).

F11. REFER TO PIPE THRU SMOKE/RATED ASSEMBLY DETAIL, THIS SHEET FOR PIPE PENETRATIONS AS APPLICABLE. (SEE SPECIFICATIONS)

F12. PROVIDE SEISMIC CALCULATIONS ON SPRINKLER SHOP DRAWINGS IN ACCORDANCE WITH STATE FIRE MARSHAL REQUIREMENTS. IDENTIFICATION OF ALL SEISMIC COMPONENTS SHALL BE CLEARLY INDICATED AND NOTED ON DRAWINGS.

F13. PROVIDE SPRINKLER COVERAGE ABOVE AND BELOW SUSPENDED CEILING AS NOTED ON DRAWINGS.

EXISTING SPRINKLER SYSTEM NOTES

A. EXISTING DRAWINGS FOR THIS PROJECT WERE NOT AVAILABLE AT TIME OF DESIGN.

B. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL EXISTING PIPING AND HEADS INCLUDING LINE SIZES AND SPRK HEAD TYPES TO ESTABLISH EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THIS PROJECT.

C. RECORD DRGS FOR THIS PROJECT SHALL INCLUDE LOCATIONS OF ALL EXISTING PIPING TO REMAIN.

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 11155 1/10/23 DANNY HAINES

SOUTH CAROLINA MECHANICAL DESIGN, INC. No. 0096 CERTIFICATE OF AUTHORIZATION

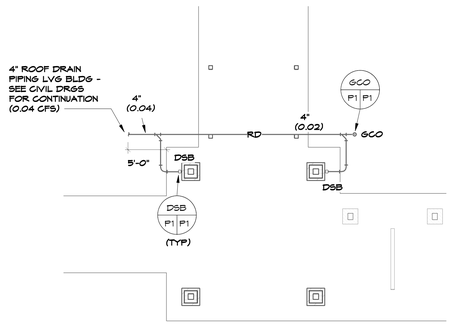
EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

No	Description	Date

DRAWN BY: SJH
CHECKED BY: DLF
COMM NO: 21010
DATE: 01/10/2023
SHEET TITLE: SPRINKLER FLOOR PLAN, NOTES AND DETAILS

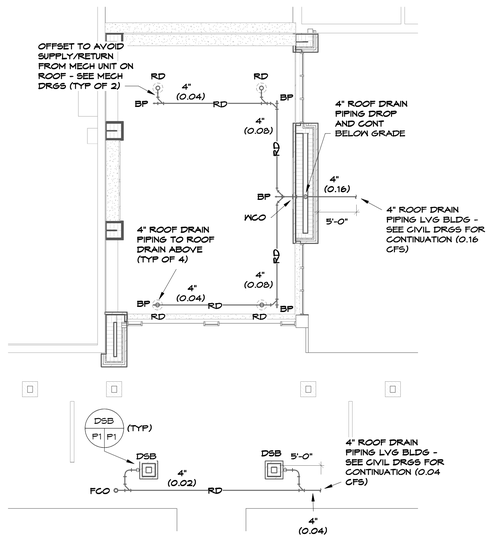
MECHANICAL DESIGN INC.
4403 Broad River Road
Columbia, S.C. 29210
T: (803) 731-9834
F: (803) 731-9837
CONTACT: D. Fulmer
COMM. NO. 223854

SHEET NO: FP1



PLUMBING FLOOR PLAN - BUS CANOPY

1/8" = 1'-0"



PLUMBING FLOOR PLAN - LOBBY

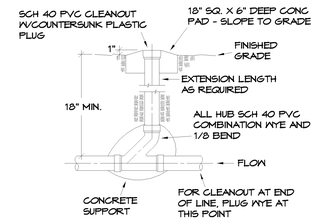
1/8" = 1'-0"

PLUMBING NOTES

1. DO NOT SCALE DRAWINGS. ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS.
2. COORDINATE PLUMBING SYSTEMS WITH ALL TRADES TO AVOID INTERFERENCE AND CONFLICTS PRIOR TO INSTALLATION OF PIPING, FIXTURES, AND EQUIPMENT.
3. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE (IBC) BUILDING AND (IPC) PLUMBING CODES, 2018 EDITIONS OF THE (ICC) INTERNATIONAL CODE COUNCIL AND ALL LOCAL CODES AND ORDINANCES.
4. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
5. UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE RUN CONCEALED IN WALLS, CHASES AND/OR ABOVE CEILINGS.
6. INSTALLATION OF EQUIPMENT AND PIPING SHALL COMPLY WITH THE (IBC) BUILDING CODE 2018 EDITION FOR SEISMIC PROTECTION.

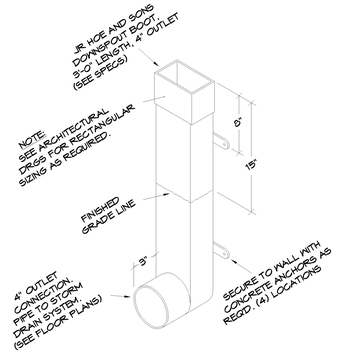
PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
RD	ROOF DRAIN PIPING
FCO	FLOOR CLEANOUT
GCO	GRADE CLEANOUT
WCO	WALL CLEANOUT
RD	ROOF DRAIN
CFS	CUBIC FEET PER SECOND
BP	BLIND PLUG
DSB	DOWNSPOUT BOOT



GCO / P1 P1 GRADE CLEANOUT DETAIL

NOT TO SCALE



DSB / P1 P1 DOWNSPOUT BOOT DETAIL

SCHEMATIC

SPECIAL NOTE:
CONTRACTOR IS REQ'D TO VISIT PROJECT SITE PRIOR TO SUBMITTING BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXIST CONDITIONS RELATING TO THIS PROJECT. SUBMISSION OF A BID WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE OF WORK.

MECHANICAL DESIGN INC.
4403 Broad River Road
Columbia, S.C. 29210
T: (803) 731-9834
F: (803) 731-9837
CONTACT: Dana Fulmer
COMM. NO. 223854

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

NO	Description	Date

DRAWN BY: SJH

CHECKED BY: DLF

COMM NO: 22016

DATE: 01/10/2023

SHEET TITLE: PLUMBING FLOOR PLAN, NOTES AND DETAILS

SHEET NO: P1

ELECTRICAL SYMBOLS

- TAMPER-RESISTANT DUPLEX RECEPTACLE (NEC 406.12), 20A, 120V, NEMA 5/20R, 16" AFF TO BOTTOM OF OUTLET BOX.
  - "CR" DENOTES CORROSION-RESISTANT RECEPTACLE, SEE 260500.
  - "WP" DENOTES WEATHER-RESISTANT RECEPTACLE [NEC, SECTION 406.9(A)] WITH EXTRA-DUTY RATED "IN-USE" WEATHERPROOF COVER PLATE, SEE 260500.
- SAME, EXCEPT MOUNTED 3" TO BOTTOM OF OUTLET FROM COUNTER BACKSPLASH, OR 48" AFF TO TOP OF OUTLET, OR AS DETAILED ON DRAWINGS. SEE ELEVATION THIS SHEET.
- GFCI RECEPTACLE, MOUNTING HEIGHTS AS ABOVE. "WP" DENOTES WEATHER-RESISTANT RECEPTACLE [NEC, SECTION 406.9(A)] WITH WEATHERPROOF COVER PLATE, SEE SPECIFICATIONS.
- WALL OR CEILING MOUNTED JUNCTION BOX.
- NON-FUSED SAFETY SWITCH, 3 POLE (AMPS/VOLTS/NF/ENCLOSURE), SEE NOTES ON DRAWINGS.
- SAME, EXCEPT FUSED SAFETY SWITCH (AMPS/VOLTS/FUSE/ENCLOSURE).
- EQUIPMENT ELECTRICAL CONNECTION. SEE EQUIPMENT POWER NOTES ON DRAWINGS.
- MOTOR CONTROLLER, STARTER, OR VFD FURNISHED WITH EQUIPMENT, INSTALLED AND POWER WIRED BY ELECTRICAL CONTRACTOR.
- TELEPHONE BOARD.
- PANELBOARD.
- A-1,3 — BRANCH CIRCUIT WIRING RUN CONCEALED IN WALLS OR CEILING, 1#12G, 2#12 UNLESS NOTED OTHERWISE. ARROW DENOTES HOME RUN AND NUMERAL DENOTES CIRCUIT NUMBER. WHERE MORE THAN TWO CONDUCTORS ARE REQUIRED, SLASH MARKS INDICATE NUMBER OF #12 CONDUCTORS:
  - SHORT SLASH DENOTES HOT OR SWITCH LEG,
  - LONG SLASH DENOTES NEUTRAL,
  - "L" DENOTES GROUNDING WIRE

  MULTIWIRE BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS. CONDUIT HOMERUNS TO PANELBOARDS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8" MINIMUM.
- SAME, EXCEPT RUN UNDERGROUND OR UNDERFLOOR.
- SAME, EXCEPT RUN EXPOSED.
- COMMUNICATIONS CONDUIT (OR CONDUIT & WIRING WHERE SPECIFIED), SIZE AS NOTED. CONDUIT TO BE EMT RUN OVERHEAD CONCEALED IN WALLS OR CEILING UNLESS NOTED OTHERWISE.
- TV — TV OUTLET, 2 GANG BOX, 4" SQUARE, 2 1/8" DEEP, WITH 1 GANG PLASTER RING, 84" AFF TO BOTTOM OF OUTLET BOX, UNLESS NOTED. PROVIDE DUPLEX RECEPTACLE 84" AFF WITHIN 8" OF TV OUTLET. HOMERUN 3/4" EMPTY CONDUIT WITH PULL WIRE TO CABLE TRAY OR MDF/IDF ROOM.
- WP — RECESSED WALL MOUNTED SPEAKER, "WP" DENOTES WEATHERPROOF GRILL, BOGEN FMH15T FLANGED-MOUNTED HORN WITH BBFM6 FLUSH-MOUNT ENCLOSURE, OR EQUIVALENT. SPEAKER TO BE COMPATIBLE WITH EXISTING SCHOOL PUBLIC ADDRESS SYSTEM. SEE DRAWINGS AND SPECIFICATIONS FOR RACEWAY, CABLING, AND ADDITIONAL INFORMATION.
- WALL OR CEILING MOUNTED FIXTURE, PROVIDE AS SCHEDULED.
- RECESSED FIXTURE, WIRE THRU GREENFIELD FROM OUTLET BOX ABOVE CEILING, PROVIDE AS SCHEDULED. "NL" DENOTES FIXTURE WIRED TO A SEPARATE 24/7 NIGHT LIGHT CIRCUIT.
- 8" DIAMETER PENDANT MOUNTED RING FIXTURE, PROVIDE AS SCHEDULED.
- RECESSED FIXTURE, PROVIDE AS SCHEDULED.
- EXISTING PENDANT FIXTURE TO BE REMOVED.
- HALF-SHADED FIXTURE DENOTES EMERGENCY LIGHTING FIXTURE. PROVIDE EMERGENCY BATTERY AS SCHEDULED.
- WALL OR CEILING MOUNTED LED EXIT LIGHT, SHADED AREA DENOTES FACE.
- WALL OR CEILING MOUNTED LED EMERGENCY/EXIT LIGHT, SHADED AREA DENOTES FACE.

FIRE ALARM SYMBOLS AND NOTES

- FIRE ALARM MANUAL PULL STATION. 48" AFF TO TOP OF BOX.
- FIRE ALARM WALL MOUNTED HORN WITH STROBE LIGHT (HS), FIRE ALARM STROBE LIGHT (ST), AND FIRE ALARM HORN (H), CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQUIREMENTS (MATCH SPEAKER/STROBE, STROBE, AND SPEAKER MOUNTING HEIGHTS).
- DASHED DEVICES DENOTE EXISTING DEVICES TO REMAIN.
- DASHED DEVICES THAT ARE CROSSED-OUT DENOTE EXISTING DEVICES TO BE REMOVED.
- NEW FIRE ALARM DEVICES TO BE MATCH EXISTING FIRE ALARM SYSTEM MANUFACTURER AND TO BE COMPATIBLE WITH EXISTING SYSTEM. PROVIDE TESTING OF ALL NEW AND RELOCATED DEVICES, PLUS 10% OF EXISTING DEVICES AS PART OF OSF AND STATE FIRE MARSHAL INSPECTION.

FIRE ALARM SYSTEM NOTES

1. ALL FIRE ALARM SYSTEM WIRING SHALL BE RUN ABOVE GRADE IN WALLS AND ABOVE CEILING IN METAL RACEWAYS. RACEWAYS SHALL BE RUN CONCEALED IN ALL AREAS NOT DESIGNATED AS A UTILITY OR ELECTRICAL ROOM, EXCEPT SURFACE MOUNTED RACEWAY MAY BE USED WHERE DEVICES ARE INSTALLED ON EXISTING WALLS. FIRE ALARM WIRING MAY NOT BE RUN UNDERGROUND OR IN SLAB UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. WHERE DEVICES SURFACE MOUNTED, PROVIDE DEEP FS SURFACE MOUNTED BOXES (RED) FOR DEVICES AND CONNECTORS FROM RACEWAYS TO DEVICES AS REQUIRED.

   EXCEPTION: TYPE AC FIRE ALARM CABLE MAY BE USED IN LIEU OF CONDUIT FOR FIRE ALARM SYSTEM WIRING WHERE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2023 SOUTH CAROLINA SCHOOL FACILITIES PLANNING AND CONSTRUCTION GUIDE.
2. VERIFY WIRING REQUIREMENTS WITH EQUIPMENT MFR PRIOR TO ROUGH-IN AND INSTALL ACCORDINGLY. NOTIFICATION APPLIANCE CIRCUITS SHALL BE RUN AS REQUIRED TO PROVIDE A 3-PULSE TEMPORAL AUDIBLE SIGNAL WITHOUT COMPROMISING THE OPERATION OF THE STROBES.
3. PROVIDE SYNCHRONIZATION OF ALL STROBE LIGHTS.
4. FIRE ALARM SYSTEM TO BE CLASS B SUPERVISED SYSTEM, FURNISH & INSTALL END-OF-LINE RESISTORS WHERE REQUIRED. ALARM, TROUBLE AND SUPERVISORY SIGNALS FROM ALL INTELLIGENT REPORTING DEVICES SHALL BE ENCODED ON NFPA CLASS B SIGNALING LINE CIRCUITS (SLC). INITIATION DEVICE CIRCUITS (IDC) SHALL BE WIRED CLASS B AS PART OF AN ADDRESSABLE DEVICE CONNECTED BY THE SLC CIRCUIT. NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE WIRED CLASS B AS PART OF AN ADDRESSABLE DEVICE CONNECTED BY THE SLC CIRCUIT.
5. EQUIPMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS, SIGNED BY A MINIMUM NICET III CERTIFIED PROFESSIONAL, INDICATING EXACT ROUTING AND SIZES OF RACEWAYS AND NUMBER AND SIZE OF CONDUCTORS IN RACEWAYS FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR SHALL USE THE REVIEWED DRAWING FOR ROUGH-IN OF FIRE ALARM SYSTEM RACEWAYS AND OUTLET BOXES. IT SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM EQUIPMENT SUPPLIER TO SUBMIT SHOP DRAWINGS TO THE AHJ FOR REVIEW AFTER THEY HAVE BEEN REVIEWED AND DEEMED ACCEPTABLE BY THE ENGINEER.
6. LOCATE MANUAL PULL STATIONS WITHIN 5'-0" OF THE EXIT OPENING PER NFPA AND IBC REQUIREMENTS. PROVIDE ANY SPECIAL ADAPTER PLATES OR COVER PLATES REQUIRED TO MOUNT PULL STATIONS AT DOOR MULLIONS WHERE APPLICABLE AND PAINT EXPOSED SURFACES TO MATCH MULLION. WHERE CONSTRUCTION CONDITIONS CAUSE DIFFICULTY FOR LOCATING PULL STATIONS WITHIN 5'-0" OF EXIT OPENING, COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
7. DO NOT ADJUST LOCATIONS OF HORN/STROBES WITHOUT CONSULTING WITH THE ENGINEER AND OBTAINING WRITTEN PERMISSION. ALL HORNS IN CORRIDORS AND IN SPACES LARGER THAN 2,000SF SHALL BE SET TO "HIGH". ALL OTHER HORNS SHALL BE SET TO "LOW".
8. THE CONTRACTOR SHALL PROVIDE THE REQUIRED NUMBER OF POWER EXTENDER PANELS TO SUPPORT NOTIFICATION DEVICES.
9. BACKBOXES FOR ALL CEILING FIRE ALARM DEVICES SHALL BE FLUSH MOUNTED WHERE CONDUIT IS ROUTED ABOVE FINISHED CEILING. WHERE SURFACE MOUNTING OF DEVICES IS NECESSARY AT CEILINGS, PROVIDE THE SHALLOWEST SURFACE STYLE BOXES ALLOWED BY MANUFACTURER.
10. BACKBOXES FOR SURFACE DEVICES AT WALLS SHALL BE PER FIRE ALARM EQUIPMENT MANUFACTURER AND INSTALLED SUCH THAT DEVICE APRON IS FLUSH TO WALL SURFACE.
11. FIRE ALARM SYSTEM CONDUIT ROUTING SHALL BE SUCH THAT IT DOES NOT IMPEDE ROUTINE MAINTENANCE OF OTHER SYSTEMS (LIGHTING, HVAC, PLUMBING, ETC.).
12. FIRESTOP THROUGH-WALL AND THROUGH-FLOOR PENETRATIONS PER ASTM AND UL 1479, LATEST EDITION AT PROJECT BIDDING. PROVIDE ASSEMBLIES AS REQUIRED AS LISTED IN UL FIRE RESISTANCE DIRECTORY, LATEST EDITION. PROVIDE DOCUMENTATION FOR EACH PENETRATION METHOD USED, REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
13. PENETRATIONS AT NON-RATED PARTITIONS SHALL BE SEALED WITH CAULK. DRYWALL SPACKLE SHALL NOT BE AN ACCEPTABLE SEALANT.
14. WHERE CEILINGS ARE EXISTING, THE CONTRACTOR SHALL REMOVE AND REPLACE ALL CEILING TILES NECESSARY FOR INSTALLATION OF FIRE ALARM DEVICES. THE CONTRACTOR SHALL REPLACE ANY CEILING TILES DAMAGED AS A RESULT OF THIS WORK AT THE CONTRACTOR'S EXPENSE.

CU-2

HVAC POWER PLAN NOTES (NOTES APPLY TO ALL HVAC POWER PLANS):

DENOTES EQUIPMENT ELECTRICAL CONNECTION. ID TAG CORRESPONDS TO UNIT ID ON MECHANICAL DRAWINGS. TAG SHOWN IS FOR HVAC UNIT CU-2. CU = CONDENSING UNIT, 2 = UNIT NUMBER. REFER TO DRAWINGS AND/OR EQUIPMENT SCHEDULE FOR CONDUIT, WIRING, & DISCONNECT TYPES/SIZES. LOCATE DISCONNECTS ADJACENT TO EQUIPMENT IN A "READILY ACCESSIBLE" LOCATION, FIELD VERIFY. WHERE FUSED DISCONNECTS ARE INDICATED, FUSE PER THE MANUFACTURER'S LISTED MCA.

COORDINATE VOLTAGES WITH MECHANICAL CONTRACTOR PRIOR TO START OF WORK. IF EQUIPMENT IS SUPPLIED AT A VOLTAGE OTHER THAN THAT PROVIDED, THE GENERAL CONTRACTOR AND SUBCONTRACTORS WILL BE HELD RESPONSIBLE FOR MAKING ANY NECESSARY ADJUSTMENTS TO CORRECT THE CONFLICT, AT NO COST TO THE OWNER, TO THE SATISFACTION OF THE ELECTRICAL ENGINEER. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS, SUBJECT TO FIELD VERIFICATION.

INFORMATION SHOWN IN SCHEDULE WAS TAKEN FROM DRAWINGS FURNISHED BY THE MECHANICAL ENGINEER. PRIOR TO STARTING WORK AND BEFORE ORDERING ANY EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL REVIEW THE HVAC SHOP DRAWINGS AND SHALL VERIFY ALL EQUIPMENT FOR CONFORMANCE WITH THE INFORMATION SHOWN IN THE SCHEDULE (VOLTAGE, MCA, MOCP), AND SHALL NOTIFY THE ENGINEER AND THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE MECHANICAL SHOP DRAWINGS AND THIS SCHEDULE.

ALL MOTOR STARTERS AND VARIABLE FREQUENCY DRIVES (VFDs) FOR HVAC-RELATED EQUIPMENT THAT ARE NOT FACTORY-MOUNTED AND PREWIRED SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR, INSTALLED AND POWER WIRED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE DESIGN DOCUMENTS. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF MOTOR STARTERS AND VFDs.

USE HACR TYPE CIRCUIT BREAKERS FOR ALL HVAC UNITS.

1. WHERE EQUIPMENT IS SUPPLIED WITH CORD & PLUG, PROVIDE RECEPTACLE TO MATCH PLUG IN LIEU OF DISCONNECT. ELIMINATE DISCONNECT IF UNIT SUPPLIED WITH BUILT-IN DISCONNECT, VERIFY VOLTAGE.
2. PROVIDE SEPARATE 120V CIRCUIT FOR CONDENSATE PUMP ON ALL AHD UNITS AND OTHER NOTED UNITS.

SCOPE OF WORK

THE WORK OF THIS SECTION SHALL PROVIDE COMPLETE ELECTRICAL SYSTEMS WHICH SHALL INCLUDE THE PROVIDING OF ALL CONDUCTORS, RACEWAYS, FITTINGS, CIRCUIT PROTECTIVE DEVICES, LIGHT FIXTURES, BOXES, SUPPORTS, AND ALL ASSOCIATED APPURTENANCES AND MISCELLANEOUS EQUIPMENT NECESSARY, ALL OF WHICH SHALL BE COMPLETELY CONNECTED, TESTED, ADJUSTED AND LEFT IN PROPER OPERATING CONDITION. THE ELECTRICAL SYSTEM TO BE PROVIDED SHALL INCLUDE SERVICE AND DISTRIBUTION FACILITIES POWER FOR MOTOR OPERATED EQUIPMENT, LIGHTING SYSTEMS, AND ALL OUTLETS AS COVERED HEREINAFTER.

GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE (NEC), THE 2018 INTERNATIONAL BUILDING CODE (IBC), AND ANY LOCAL CODES, LAWS AND ORDINANCES WHICH MAY APPLY. WHERE DIFFERENCES EXIST BETWEEN THE CODES, THE STRICTER CODE SHALL APPLY.
2. ALL CONDUITS AND/OR MC CABLE SHALL CONTAIN A GROUNDING CONDUCTOR REGARDLESS OF USE.
3. THE CONTRACTOR FOR THE WORK UNDER THIS SECTION SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND LICENSES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENT AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON REQUEST.
4. TYPE MC CABLE MAY NOT BE USED ON THIS PROJECT, EXCEPT AS NOTED BELOW:
   - MANUFACTURER SUPPLIED METAL CLAD CABLE SHALL BE PERMITTED FOR LIGHT FIXTURE WHIPS (#18 AWG) PROVIDED THEY INCLUDE A GROUND WIRE AND DO NOT EXCEED 6' IN LENGTH.
   - TYPE MC CABLE AND TYPE MC-PCS CABLE MAY BE USED FOR INTERIOR, CONCEALED LIGHTING AND RECEPTACLE BRANCH CIRCUITS LOCATED IN STUD WALLS AND ABOVE ACCESSIBLE LAY-IN CEILINGS, EXCEPT THAT HOMERUNS TO PANELBOARDS SHALL BE IN EMT AND TYPE MC CABLE MAY NOT PENETRATE RATED WALLS OR FLOORS. REFER TO TYPICAL LIGHTING PLANS FOR ADDITIONAL INFORMATION.
   - TYPE MC CABLE MAY NOT BE USED UNDERGROUND OR UNDER SLAB ON THIS PROJECT.
5. UNLESS OTHERWISE NOTED FOR 120-VOLT, 20-AMP CKTS:
   #10 AWG SHALL BE USED FOR HOMERUNS LONGER THAN 75 FEET
   #12 AWG SHALL BE USED FOR HOMERUNS 75 FEET OR SHORTER
6. MULTIWIRE BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS.
7. MOUNT RECEPTACLES 16" AFF UNLESS OTHERWISE NOTED. RECEPTACLES TO BE TAMPER-RESISTANT TYPE UNLESS NOTED OTHERWISE.
8. ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE BY THE SAME MANUFACTURER. COVER PLATES SHALL BE JUMBO STAINLESS STEEL. DEVICE COLOR TO BE SELECTED BY THE ARCHITECT UNLESS STATED WITH THE DEVICE SYMBOL.
9. ELECTRICAL METALLIC TUBING AND RIGID GALVANIZED STEEL CONDUIT SHALL BE THE ONLY TYPES OF CONDUIT INSTALLED WITHIN THE BUILDING. PVC IS PERMITTED UNDERGROUND.
10. BRANCH CIRCUITS SHALL BE RUN CONCEALED WHERE PRACTICAL. BRANCH CIRCUITS RUN EXPOSED TO WEATHER ON EXTERIOR WALLS OR ON ROOFS SHALL BE RUN IN GRC OR IMC WITH SCREWED FITTINGS. BRANCH CIRCUITS RUN CONCEALED IN WALLS OR CEILINGS SHALL BE RUN IN EMT, GRC, OR IMC. BRANCH CIRCUITS RUN EXPOSED IN DRY, FINISHED SPACES SHALL BE RUN IN WIREMOLD SURFACE METAL RACEWAY. BRANCH CIRCUITS RUN EXPOSED IN DAMP LOCATIONS, UNFINISHED SPACES (ATTICS), AND UNOCCUPIED SPACES (STORAGE ROOM, EQUIPMENT ROOMS, JANITOR'S CLOSET, ETC.) MAY BE RUN IN EMT IN LIEU OF WIREMOLD.
11. CONDUIT HOMERUNS TO PANELBOARDS AND CONDUITS SHOWN WITH MULTIPLE CIRCUITS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8" MINIMUM.
12. INTERIOR CONDUIT HOMERUNS TO PANELBOARDS SHALL BE RUN OVERHEAD IN EMT, GRC, OR IMC UNLESS NOTED OTHERWISE ON THE DRAWINGS.
13. FIRE ALARM SYSTEM CONDUITS AND COMMUNICATIONS SYSTEM CONDUITS TO BE EMT RUN OVERHEAD CONCEALED IN WALLS OR CEILING UNLESS NOTED OTHERWISE.
14. ALL FIRE RATED WALLS, FLOORS, ETC WHICH HAVE A CONDUIT OR OTHER ELECTRICAL PENETRATION SHALL BE SEALED TO EQUAL THE RATING OF THE WALL, FLOOR, ETC. THAT IS PENETRATED. CONTRACTOR SHALL USE A U.L. RATED AND LISTED ASSEMBLY FOR THE SEALING MATERIAL AND METHOD. COORDINATE MANUFACTURER WITH THE GENERAL CONTRACTOR SO THAT ALL TRADES ON THE PROJECT USE THE SAME MANUFACTURER. THROUGH PENETRATIONS OF CONDUITS AND CABLES OF FIRE RESISTANCE RATED WALLS MUST COMPLY WITH SECTION 714.3.1 OF THE IBC. THROUGH PENETRATIONS OF FIRE RESISTANCE CEILING ASSEMBLIES MUST COMPLY WITH SECTION 714.4.1.1 OF THE IBC.
15. ALL OUTLET BOXES 4"x4" OR SMALLER LOCATED ON OPPOSITE SIDES OF A RATED WALL SHALL HAVE A MINIMUM OF 24" HORIZONTAL SPACING OR SHALL BE PROTECTED WITH LISTED PUTTY PADS. ALL OUTLET BOXES LARGER THAN 4"x4" (COMMUNICATIONS OUTLETS, ETC.) LOCATED IN RATED WALLS SHALL BE PROTECTED WITH LISTED PUTTY PADS.
16. COMMUNICATIONS OUTLET BOXES TO BE 4"x4"x2 1/8" FOR CONDUIT SIZES 1" AND SMALLER, AND 4 11/16"x4 11/16"x2 1/8" FOR 1 1/4" CONDUIT.
17. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, CABINETS, ETC.
18. CONCEAL ALL CONDUIT AND FITTINGS EXCEPT WHERE THE ARCHITECT GRANTS SPECIFIC PERMISSION.
19. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE.
20. PROVIDE ONE COMPLETE SET OF ELECTRICAL DRAWINGS MARKED UP FOR RECORD DRAWINGS. SHOW ALL LOCATIONS OF EQUIPMENT AND MATERIALS.
21. INSTALL ALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
22. IDENTIFY MAJOR EQUIPMENT INSTALLED WITH LAMICOR LABELS (SEE SPECS). PROVIDE FLASH HAZARD SIGN AT ALL ELECTRICAL PANELS. PROVIDE A TYPED DIRECTORY IN ALL PANEL BOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.
23. VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
24. ALL RACEWAYS, FIXTURES, WIRING, DEVICES, AND EQUIPMENT RENDERED USELESS BY THIS WORK SHALL BE REMOVED AND DELIVERED TO THE OWNER'S STORAGE FACILITY AS DIRECTED. ANY MATERIAL NOT WANTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
25. ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL HIS WORK. FINISH PATCHING AND PAINTING WILL BE DONE BY THE GENERAL CONTRACTOR.
26. PRIOR TO DIGGING ANY TRENCHES, NOTIFY ALL UTILITIES AND OBTAIN LOCATIONS OF UNDERGROUND UTILITIES. ANY DAMAGES DONE TO UNDERGROUND UTILITIES OR PIPING BY THIS CONTRACTOR WILL BE REPAIRED BY THE OWNER OF THE LINE IN A SATISFACTORY MANNER. THIS CONTRACTOR WILL BEAR ALL COSTS FOR REPAIRS.
27. CONDUITS TO BE RUN UNDER WALKWAYS AND PAVINGS SHALL BE INSTALLED BY JACKING OR BORING, UNLESS NOTED. DO NOT CUT WALKWAYS OR PAVEMENTS, UNLESS ACCEPTABLE TO THE ENGINEER. ALLOWED CUTS IN PAVEMENT OR CONCRETE SHALL BE MADE USING A PAVEMENT SAW, AND SHALL BE PATCHED TO MATCH THE EXISTING SURFACE.
28. WHERE DISAGREEMENTS EXISTS ON THE DESIGN DOCUMENTS, THE ITEM OR ARRANGEMENTS OF BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID. ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, AND FIELD CONDITIONS SHALL BE RESOLVED WITH THE ENGINEER PRIOR TO COMMENCING WORK. ALL AGREEMENTS SHALL BE VERIFIED IN WRITING.
29. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES TO INSURE PROPER LOCATION OF OUTLETS AND EQUIPMENT CONNECTIONS, AND TO MINIMIZE CONFLICTS WITH STRUCTURAL MEMBERS, DUCT WORK, PIPING, ETC. CONFLICTS BETWEEN EQUIPMENT AND/OR MATERIAL LOCATIONS SHALL BE CORRECTED AS DIRECTED BY THE ARCHITECT-ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL SUBMITTALS

ELECTRICAL SHOP DRAWINGS SHALL BE SUBMITTED IN ONE COMPLETE PACKAGE CONTAINING ALL ITEMS REQUIRED BY THE ELECTRICAL DRAWINGS AND THE DIVISION 26-28 SPECIFICATIONS. PARTIAL SHOP DRAWING SUBMITTALS MAY BE REJECTED BY THE ARCHITECT-ENGINEER. REFER TO SECTION 260510 OF THE ELECTRICAL SPECIFICATIONS FOR REQUIRED SUBMITTAL FORMAT AND FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS

A	AMPERES	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
AHJ	AUTHORITY HAVING JURISDICTION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CU	COPPER	PH,ø	PHASE
EC	EMPTY CONDUIT	RCPT	RECEPTACLE
EQPT	EQUIPMENT	RE:	REFER TO
EXST	EXISTING	TYP	TYPICAL
FWE	FURNISHED WITH EQUIPMENT	UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT INTERRUPTER	V	VOLTS
IAW	IN ACCORDANCE WITH	W	WIRE OR WATTS
KVA	KILOVOLTAMPERES	WP	WEATHERPROOF
KW	KILOWATTS		

ELECTRICAL DEMOLITION NOTES

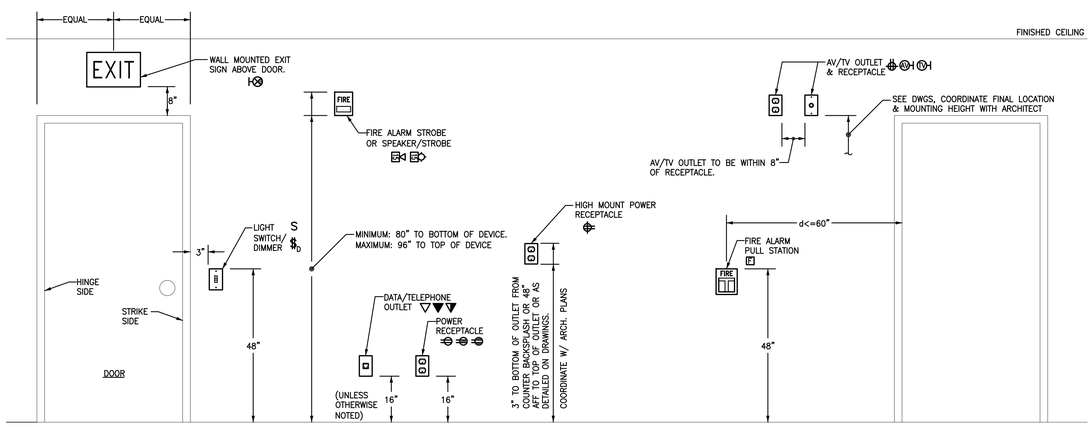
A. IT IS THE GENERAL INTENTION OF THESE DRAWINGS TO COVER ALL SITUATIONS WHERE AN ITEM IS TO BE REMOVED, WHETHER IT HAPPENS TO BE A LIGHT FIXTURE, DUPLEX RECEPTACLE, LIGHT SWITCH, FIRE ALARM DEVICE, OR OTHER ELECTRICAL ITEM. THE ELECTRICAL CONTRACTOR SHALL ASSIST THE MECHANICAL AND GENERAL CONTRACTORS IN REMOVAL OF EQUIPMENT WITH ELECTRICAL CONNECTIONS BEING REMOVED BY THESE CONTRACTORS.

B. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL SURVEY THE EXISTING BUILDING AND MAKE NOTE OF ANY ADDITIONAL DEMOLITION AND/OR ANY ADDITIONAL REMOVAL AND RELOCATION WHICH MAY BE REQ'D IN ORDER TO ACCOMPLISH RENOVATIONS INDICATED IN CONTRACT DOCUMENTS. NO CHANGE ORDER WILL BE ISSUED FOR ADDITIONAL WORK REQUIRED FOR DEMOLITION, REMOVAL, OR RELOCATION WORK NOT INDICATED ON THESE DRAWINGS BUT NECESSARY TO COMPLETE WORK.

C. IN ALL AREAS WHERE EXISTING WALLS ARE BEING REMOVED, NEW WALLS ARE BEING ADDED, AND WHERE OTHER DEMOLITION WORK IS OCCURRING, REMOVE ALL EXISTING RECEPTACLES, LIGHTS, AND OTHER ELECTRICAL DEVICES, AND ALL WIRING AND CONDUIT NOT BEING REUSED. EXISTING CONDUIT RUN CONCEALED IN EXISTING WALLS NOT BEING REMOVED AND/OR REPLACED MAY BE ABANDONED. ALL DEMOLITION MUST BE COORDINATED WITH THE ARCHITECT AND WITH ALL OTHER TRADES TO AVOID CONFLICTS. REFER TO THE ARCHITECTURAL DEMOLITION PLAN.

D. NO EXISTING ELECTRICAL MATERIALS, EQUIPMENT, WIRING, OR CONDUIT BEING REMOVED MAY BE REUSED ON THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE ON THESE DRAWINGS. ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT NOT BEING REUSED SHALL BE DISPOSED OF AS INDICATED IN GENERAL NOTES.

ELECTRICAL SHEET LIST



8 TYPICAL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES
NOT TO SCALE

Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA — SIMS GROUP ENGINEERS, INC. No. C03104 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 18744 — CHRIS PARTRICH

01/11/2023

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

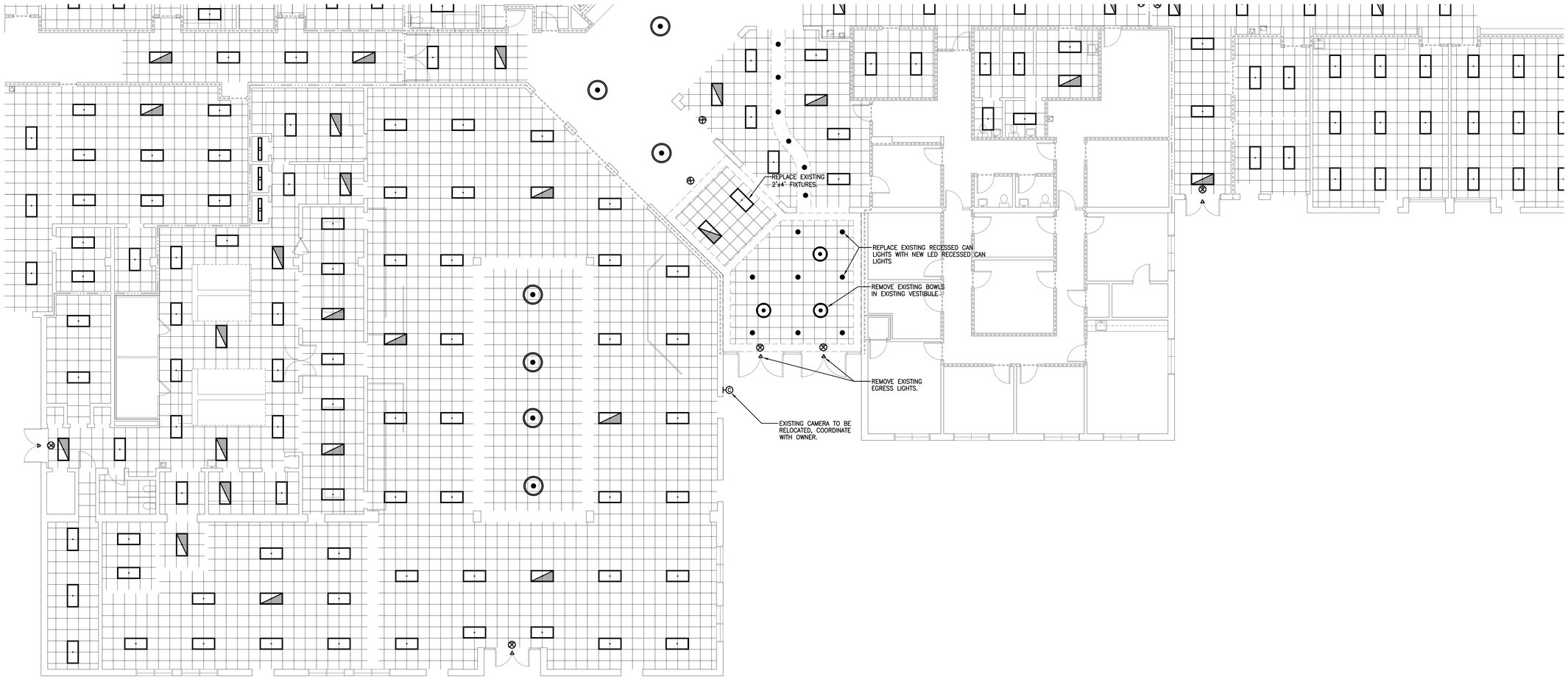
No	Description	Date

DRAWN BY: JWB
CHECKED BY: CLP
COMM NO: 22016
DATE: DECEMBER 15, 2022
SHEET TITLE: ELECTRICAL SYMBOLS, NOTES AND DETAILS

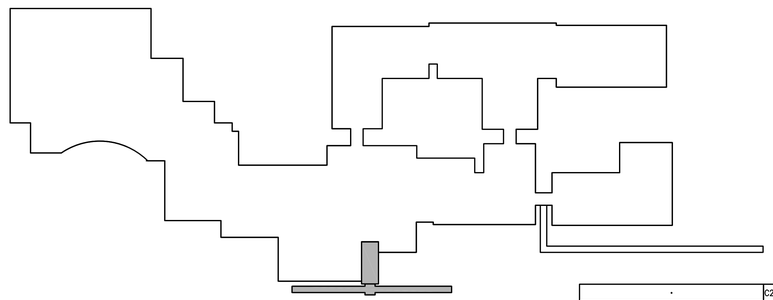
C22080

sims group
SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

SHEET NO: E001



1 PARTIAL DEMOLITION PLAN - FRONT LOBBY AND CANOPY
SCALE: 1/8"=1'-0"



TRUE NORTH PROJECT NORTH KEY PLAN

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA SIMS GROUP ENGINEERS, INC. No. C03104 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 18744 CHRIS PARTRICH

01/11/2023

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

No	Description	Date

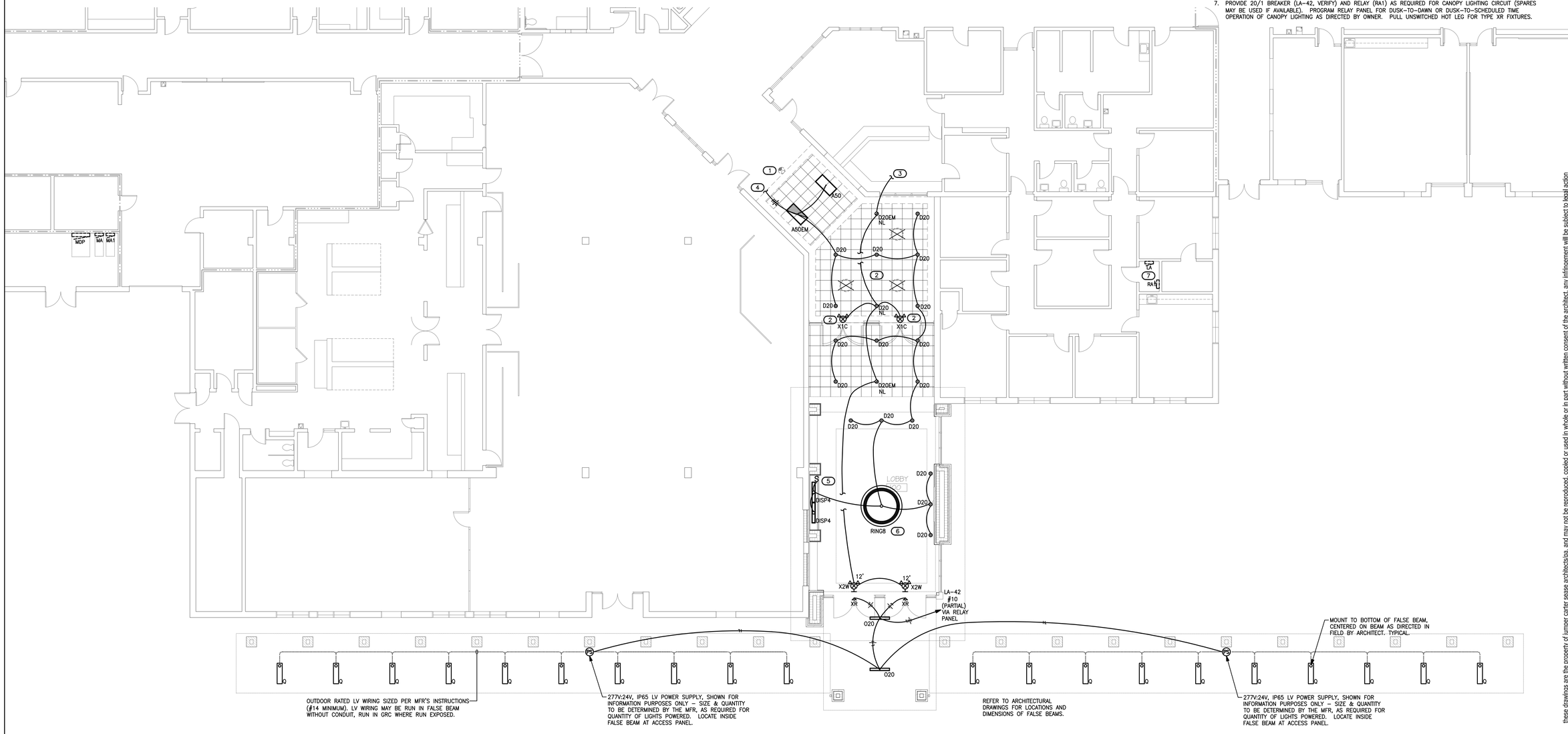
DRAWN BY: JWB
CHECKED BY: CLP
COMM NO: 22016
DATE: DECEMBER 15, 2022
SHEET TITLE: PARTIAL DEMOLITION PLAN - FRONT LOBBY AND CANOPY
SHEET NO: E002

C22080

sims group
SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

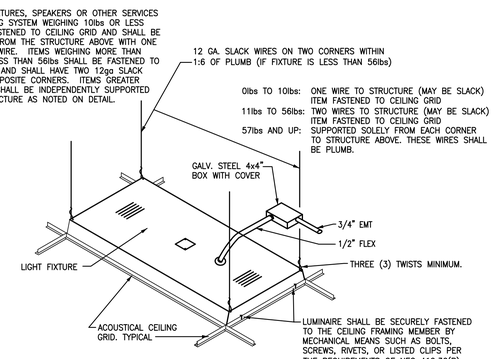
LIGHTING PLAN NOTES:

1. EXISTING EXIT LIGHT TO REMAIN, MAINTAIN EXISTING CIRCUIT AS REQUIRED.
2. LOBBY LIGHTS: EXISTING PENDANT LIGHTS TO BE REMOVED. EXISTING RECESSED DOWNLIGHTS TO BE REPLACED WITH LED DOWNLIGHTS AS NOTED. EXISTING EXIT LIGHTS TO BE REPLACED WITH COMBO EMERGENCY/EXIT LIGHTS AS NOTED. SPLICE/EXTEND/REROUTE EXISTING WIRING AS REQUIRED.
3. NIGHT-LIGHTS AND EXIT LIGHTS: WIRE ALL "NIGHT-LIGHTS" (NL) AND EXIT LIGHTS TO UNSWITCHED HOT LEG OF EXISTING NIGHT LIGHT CIRCUIT FOR 24/7 OPERATION.
4. LOBBY/CORRIDOR/COMMON AREA LIGHTS: WIRE TO EXISTING CORRIDOR LIGHTING CIRCUIT, MAINTAIN EXISTING LIGHTING CONTROLS.
5. DISPLAY CASE LIGHTING: COORDINATE LOCATION OF JUNCTION BOX FOR DISPLAY CASE PRIOR TO ROUGH-IN. PROVIDE 20A WALL MOUNTED SWITCH WITH SHALLOW IN-USE COVER AND LABEL INDICATING "DISPLAY CASE LTG" FOR LOCAL CONTROL OF DISPLAY LIGHT FIXTURES. WIRE SO DISPLAY CASE LIGHTING IS CONTROLLED BY CORRIDOR LIGHTING CIRCUIT WITH LOCAL CONTROL BY SWITCH.
6. VERIFY MOUNTING HEIGHT OF TYPE RING8 FIXTURE WITH ARCHITECT PRIOR TO ROUGH-IN.
7. PROVIDE 20/1 BREAKER (LA-42, VERIFY) AND RELAY (RA1) AS REQUIRED FOR CANOPY LIGHTING CIRCUIT (SPARES MAY BE USED IF AVAILABLE). PROGRAM RELAY PANEL FOR DUSK-TO-DAWN OR DUSK-TO-SCHEDULED TIME OPERATION OF CANOPY LIGHTING AS DIRECTED BY OWNER. PULL UNSWITCHED HOT LEG FOR TYPE XR FIXTURES.

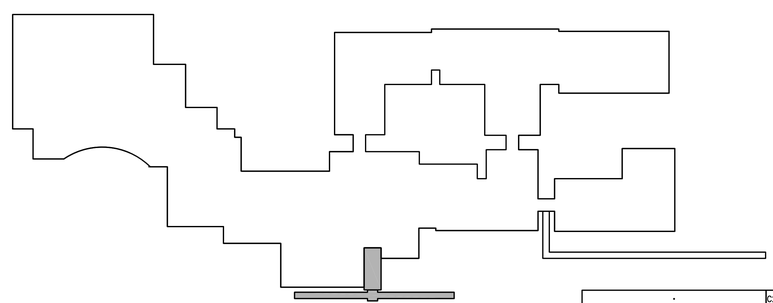


1 PARTIAL LIGHTING PLAN - FRONT LOBBY AND CANOPY
SCALE: 1/8"=1'-0"

ALL LIGHT FIXTURES, SPEAKERS OR OTHER SERVICES WITHIN CEILING SYSTEM WEIGHING 10lbs OR LESS SHALL BE FASTENED TO CEILING GRID AND SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE WITH ONE 12ga SLACK WIRE. ITEMS WEIGHING MORE THAN 10lbs BUT LESS THAN 56lbs SHALL BE FASTENED TO CEILING GRID AND SHALL HAVE TWO 12ga SLACK WIRES ON OPPOSITE CORNERS. ITEMS GREATER THAN 56lbs SHALL BE INDEPENDENTLY SUPPORTED TO THE STRUCTURE AS NOTED ON DETAIL.



2 TYPICAL LIGHT FIXTURE SUPPORT
NOT TO SCALE



KEY PLAN

TRUE NORTH | PROJECT NORTH

Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
SIMS GROUP ENGINEERS, INC. No. C03104

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 18744
CHRIS PARTRICH
01/11/2023

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

No	Description	Date

DRAWN BY: JWB
CHECKED BY: CLP
COMM NO: 22016
DATE: DECEMBER 15, 2022
SHEET TITLE: PARTIAL LIGHTING PLAN - FRONT LOBBY AND CANOPY

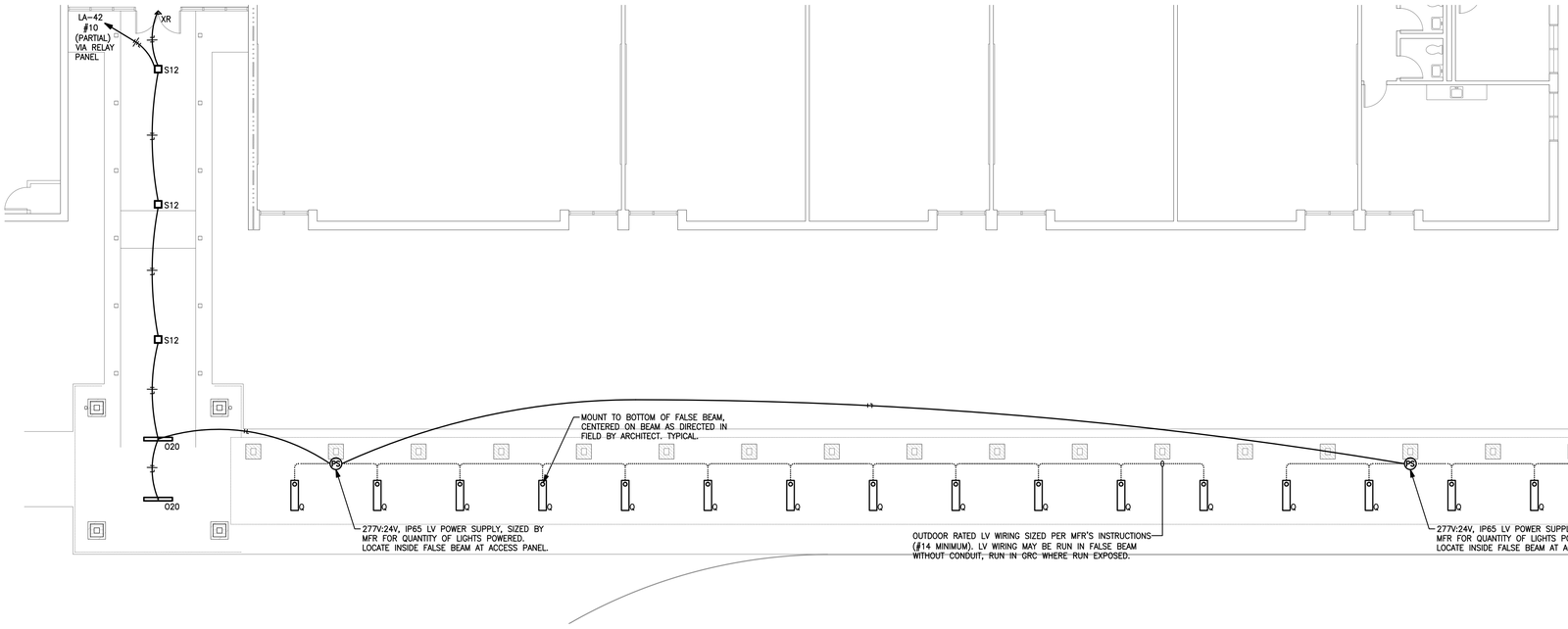
C22080

sims group
SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

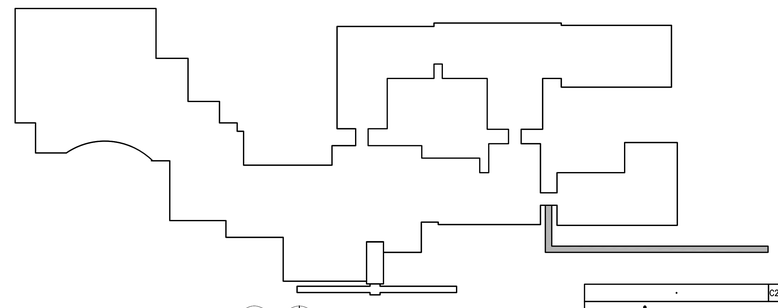
SHEET NO: E101

LIGHTING PLAN NOTES:

1. EXISTING EXIT LIGHT TO REMAIN, MAINTAIN EXISTING CIRCUIT AS REQUIRED.
2. LOBBY LIGHTS: EXISTING PENDANT LIGHTS TO BE REMOVED. EXISTING RECESSED DOWNLIGHTS TO BE REPLACED WITH LED DOWNLIGHTS AS NOTED. EXISTING EXIT LIGHTS TO BE REPLACED WITH COMBO EMERGENCY/EXIT LIGHTS AS NOTED. SPLICE/EXTEND/REROUTE EXISTING WIRING AS REQUIRED.
3. NIGHT-LIGHTS AND EXIT LIGHTS: WIRE ALL "NIGHT-LIGHTS" (NL) AND EXIT LIGHTS TO UNSWITCHED HOT LEG OF EXISTING NIGHT LIGHT CIRCUIT FOR 24/7 OPERATION.
4. LOBBY/CORRIDOR/COMMON AREA LIGHTS: WIRE TO EXISTING CORRIDOR LIGHTING CIRCUIT, MAINTAIN EXISTING LIGHTING CONTROLS.
5. DISPLAY CASE LIGHTING: COORDINATE LOCATION OF JUNCTION BOX FOR DISPLAY CASE PRIOR TO ROUGH-IN. PROVIDE 20A WALL MOUNTED SWITCH WITH SHALLOW IN-USE COVER AND LABEL INDICATING "DISPLAY CASE LTG" FOR LOCAL CONTROL OF DISPLAY LIGHT FIXTURES. WIRE SO DISPLAY CASE LIGHTING IS CONTROLLED BY CORRIDOR LIGHTING CIRCUIT WITH LOCAL CONTROL BY SWITCH.
6. VERIFY MOUNTING HEIGHT OF TYPE RINGB FIXTURE WITH ARCHITECT PRIOR TO ROUGH-IN.



1 PARTIAL FLOOR PLAN - BUS DROP-OFF CANOPY
SCALE: 1/8"=1'-0"



KEY PLAN

TRUE NORTH PROJECT NORTH

Jumper Carter Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
SIMS GROUP ENGINEERS, INC.
No. C03104

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 18744
CHRIS PARTRICH
01/11/2023

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

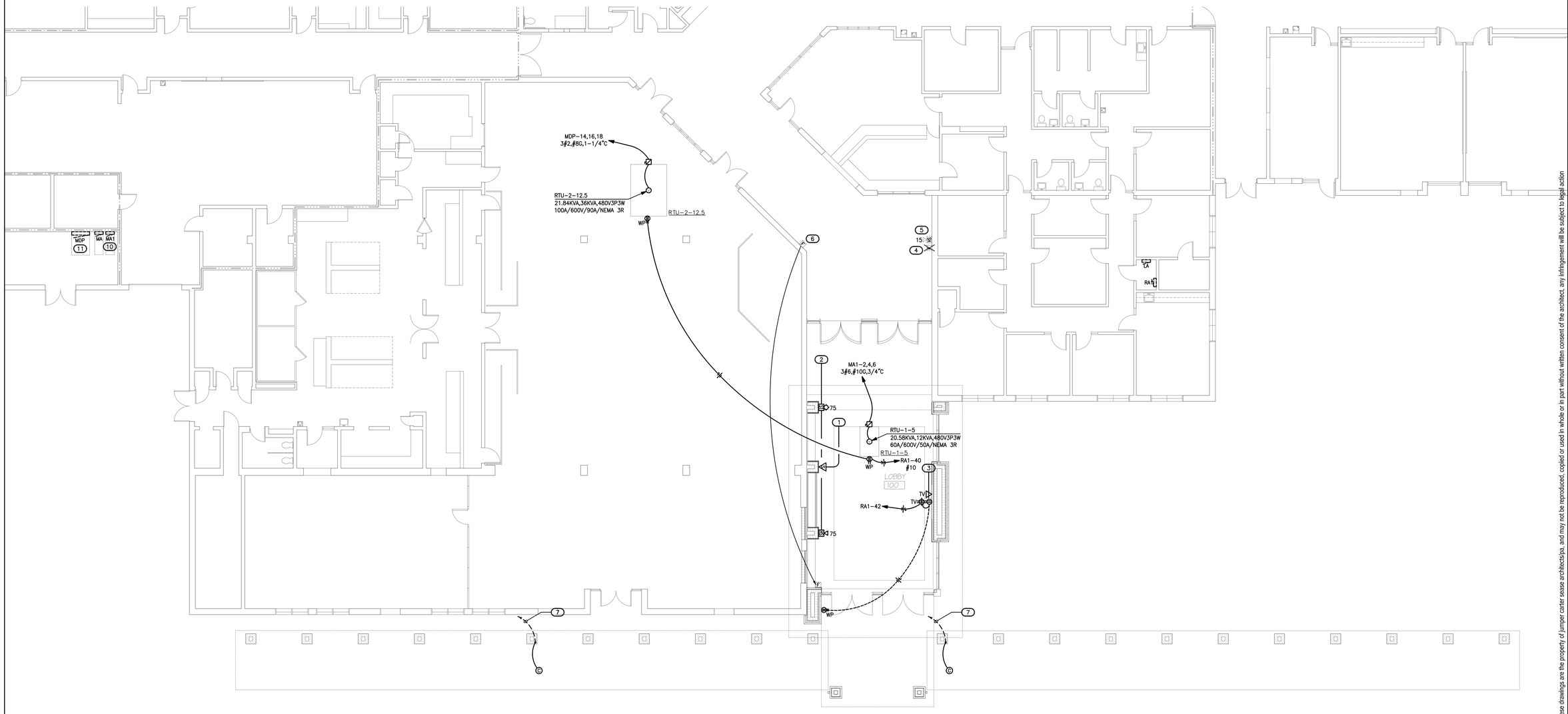
No	Description	Date

DRAWN BY: JWB
CHECKED BY: CLP
COMM NO: 22016
DATE: DECEMBER 15, 2022
SHEET TITLE: PARTIAL LIGHTING PLAN - BUS DROP OFF CANOPY

C22080

sims group
SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

SHEET NO: E102

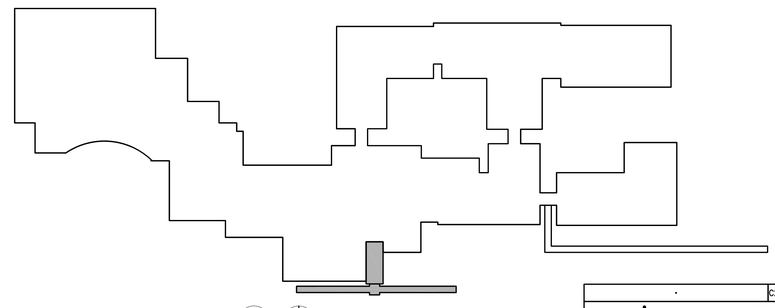


1 PARTIAL ELECTRICAL PLAN - FRONT LOBBY AND CANOPY

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

ELECTRICAL PLAN NOTES:

1. 3/4" CONDUIT WITH SPEAKER WIRE TO EXISTING CORRIDOR SPEAKER CIRCUIT.
2. 3/4" CONDUIT WITH FIRE ALARM WIRING TO EXISTING CORRIDOR NOTIFICATION APPLIANCE CIRCUIT.
3. 3/4" EMPTY CONDUIT WITH PULL WIRE TO MDF/IDF ROOM OR CABLE TRAY.
4. EXISTING MANUAL PULL STATION TO BE REMOVED, PROVIDE STAINLESS STEEL BLANK COVERPLATE OVER BOX. SPLICE/EXTEND/REROUTE EXISTING WIRING AS REQUIRED TO MAINTAIN OPERATION OF EXISTING FIRE ALARM SYSTEM.
5. EXISTING HORN/STROBE TO REMAIN.
6. EXISTING MANUAL PULL STATION TO BE RELOCATED, PROVIDE STAINLESS STEEL BLANK COVERPLATE OVER OLD BOX. SPLICE/EXTEND/REROUTE EXISTING WIRING AS REQUIRED TO MAINTAIN OPERATION OF EXISTING FIRE ALARM SYSTEM.
7. WEATHERPROOF BOX FOR CCTV CAMERA (CAMERA BY OWNER). RUN 1" EMPTY CONDUIT WITH PULL WIRE TO NEAREST MDF/IDF ROOM OR TO NEAREST CABLE TRAY LOCATED ABOVE ACCESSIBLE CEILING. FIELD VERIFY LOCATION CCTV CAMERAS WITH OWNER PRIOR TO ROUGH-IN.
8. EXISTING HVAC UNITS TO BE REMOVED, MAINTAIN EXISTING ELECTRICAL AND RECONNECT TO RELOCATED UNITS, SEE MECHANICAL DRAWINGS.
9. EXISTING HVAC UNITS TO BE RELOCATED, REMOVE ALL ASSOCIATED ELECTRICAL NO LONGER IN USE.
10. PANEL MA1: TURN TWO 40/3 BREAKERS OFF AND LABEL "SPARE". PROVIDE ONE 50/3 BREAKER IN MA1-2/4/6 (VERIFY) TO FEED NEW HVAC UNIT. PROVIDE NEW TYPEWRITTEN PANEL SCHEDULE.
11. PANEL MDP: PROVIDE ONE 90/3 BREAKER IN MDP-14/16/18 (VERIFY) TO FEED NEW HVAC UNIT. PROVIDE NEW TYPEWRITTEN PANEL SCHEDULE.



TRUE NORTH PROJECT NORTH

KEY PLAN

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION SIMS GROUP ENGINEERS, INC. No. C03104

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 18744 CHRIS PARTRICH

01/11/2023

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

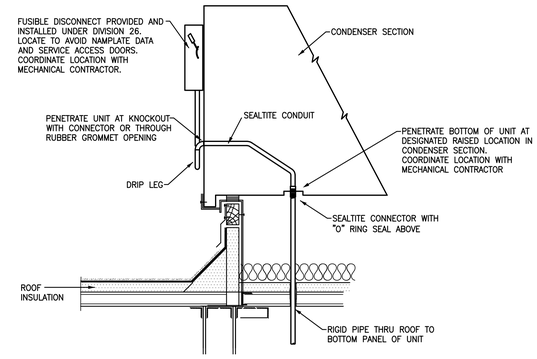
No	Description	Date

DRAWN BY: JWB
CHECKED BY: CLP
COMM NO: 22016
DATE: DECEMBER 15, 2022
SHEET TITLE: PARTIAL ELECTRICAL PLAN - FRONT LOBBY AND CANOPY

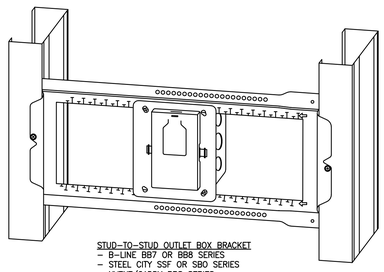
C22080

sims group
SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

SHEET NO: E201



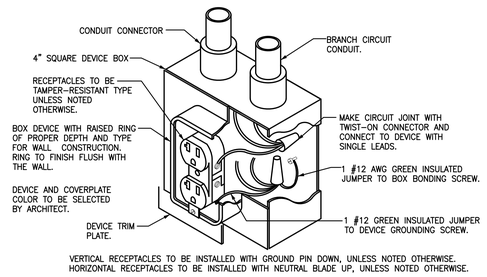
2 ROOF MOUNTED UNIT POWER WIRING DETAIL
NOT TO SCALE



STUD-TO-STUD OUTLET BOX BRACKET
- B-LINE BB7 OR BB8 SERIES
- STEEL CITY SSF OR SBO SERIES
- NVENT/CADDY RBS SERIES
- ACCEPTABLE EQUIVALENT.

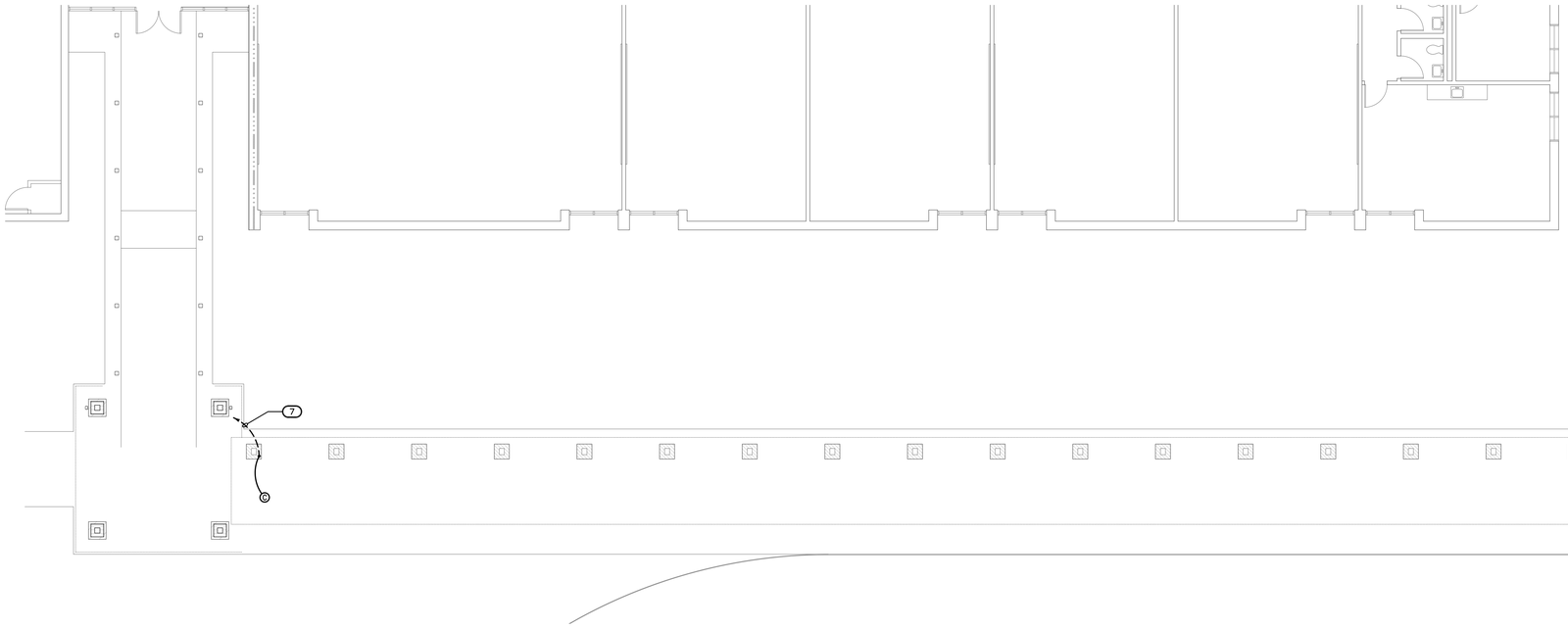
RECESSED BOXES IN MASONRY WALLS: SAW-CUT OPENING FOR BOX IN CENTER OF CELL OF MASONRY BLOCK, AND INSTALL BOX FLUSH WITH SURFACE OF WALL.

RECESSED BOXES IN STUD WALLS: SUPPORT BOXES FROM MORE THAN ONE SIDE BY SPANNING TWO FRAMING MEMBERS OR MOUNTING ON BRACKETS SPECIFICALLY DESIGNED FOR THE PURPOSE. BOX BRACKETS RELIANT ON SUPPORT LEGS PRESSED AGAINST BACK OF OPPOSING WALL ARE NOT ACCEPTABLE.



VERTICAL RECEPTACLES TO BE INSTALLED WITH GROUND PIN DOWN, UNLESS NOTED OTHERWISE.
HORIZONTAL RECEPTACLES TO BE INSTALLED WITH NEUTRAL BLADE UP, UNLESS NOTED OTHERWISE.

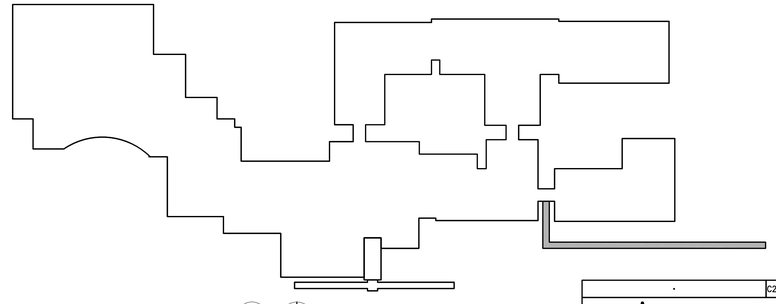
3 TYPICAL DUPLEX RECEPTACLE INSTALLATION
NOT TO SCALE



1 PARTIAL ELECTRICAL PLAN - BUS DROP-OFF CANOPY
SCALE: 1/8"=1'-0"

ELECTRICAL PLAN NOTES:

1. 3/4" CONDUIT WITH SPEAKER WIRE TO EXISTING CORRIDOR SPEAKER CIRCUIT.
2. 3/4" CONDUIT WITH FIRE ALARM WIRING TO EXISTING CORRIDOR NOTIFICATION APPLIANCE CIRCUIT.
3. 3/4" EMPTY CONDUIT WITH PULL WIRE TO MDF/IDF ROOM OR CABLE TRAY.
4. EXISTING MANUAL PULL STATION TO BE REMOVED, PROVIDE STAINLESS STEEL BLANK COVERPLATE OVER BOX. SPLICE/EXTEND/REROUTE EXISTING WIRING AS REQUIRED TO MAINTAIN OPERATION OF EXISTING FIRE ALARM SYSTEM.
5. EXISTING HORN/STROBE TO REMAIN.
6. EXISTING MANUAL PULL STATION TO BE RELOCATED, PROVIDE STAINLESS STEEL BLANK COVERPLATE OVER OLD BOX. SPLICE/EXTEND/REROUTE EXISTING WIRING AS REQUIRED TO MAINTAIN OPERATION OF EXISTING FIRE ALARM SYSTEM.
7. WEATHERPROOF BOX FOR CCTV CAMERA (CAMERA BY OWNER). RUN 1" EMPTY CONDUIT WITH PULL WIRE TO NEAREST MDF/IDF ROOM OR TO NEAREST CABLE TRAY LOCATED ABOVE ACCESSIBLE CEILING. FIELD VERIFY LOCATION CCTV CAMERAS WITH OWNER PRIOR TO ROUGH-IN.
8. EXISTING HVAC UNITS TO BE REMOVED, MAINTAIN EXISTING ELECTRICAL AND RECONNECT TO RELOCATED UNITS, SEE MECHANICAL DRAWINGS.
9. EXISTING HVAC UNITS TO BE RELOCATED, REMOVE ALL ASSOCIATED ELECTRICAL NO LONGER IN USE.
10. PANEL MA1: TURN TWO 40/3 BREAKERS OFF AND LABEL "SPARE". PROVIDE ONE 50/3 BREAKER IN MA1-2/4/6 (VERIFY) TO FEED NEW HVAC UNIT. PROVIDE NEW TYPEWRITTEN PANEL SCHEDULE.
11. PANEL MDP: PROVIDE ONE 90/3 BREAKER IN MDP-14/16/18 (VERIFY) TO FEED NEW HVAC UNIT. PROVIDE NEW TYPEWRITTEN PANEL SCHEDULE.



TRUE NORTH PROJECT NORTH
KEY PLAN

Jumper
Carter
Sease
ARCHITECTS
412 Meeting Street
West Columbia
South Carolina

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
SIMS GROUP ENGINEERS, INC. No. C03104

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 18744
CHRIS PARTRICH
01/11/2023

EMERALD HIGH SCHOOL ADDITION
GREENWOOD SCHOOL DISTRICT #50
GREENWOOD, SOUTH CAROLINA

No	Description	Date

DRAWN BY: JWB
CHECKED BY: CLP
COMM NO: 22016
DATE: DECEMBER 15, 2022
SHEET TITLE: PARTIAL ELECTRICAL PLAN - FRONT LOBBY AND CANOPY

C22080

sims group
SIMS GROUP ENGINEERS, INC.
800 Columbiana Drive, Suite 208
Irmo, South Carolina 29063
Phone: (803) 765-1007 Fax: (803) 765-1030
www.simsgroupusa.com

SHEET NO: E201