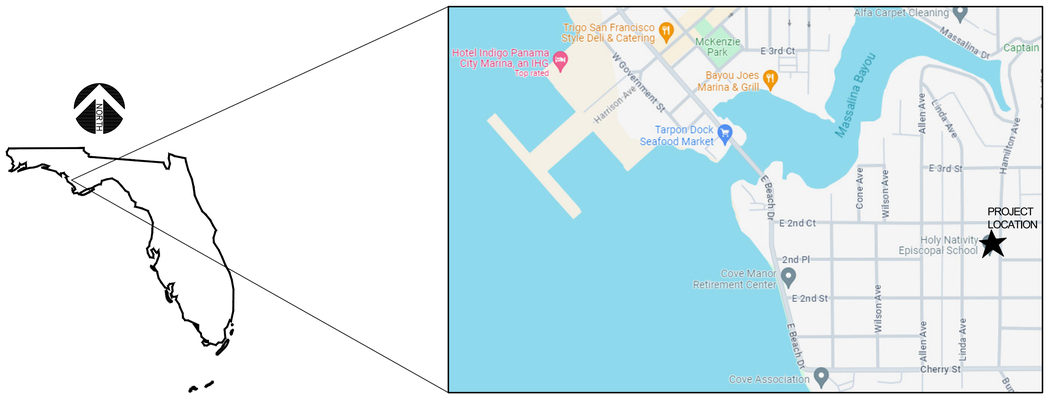
NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY, FL 32401

LOCATION MAP



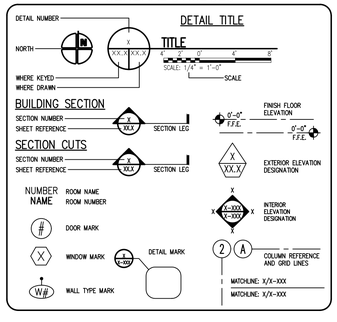
INDEX OF DRAWINGS
(SEE CIVIL ENGINEERING PLANS FOR SITE WORK & LANDSCAPING)

SYMBOL LEGEND

MATERIAL SYMBOLS

EARTH
GRANULAR FILL
CONCRETE
CONCRETE MASONRY UNIT
BRICK
FINISHED WOOD
ROUGH WOOD (CONTINUOUS)
ROUGH WOOD (NOT CONTINUOUS)
PLYWOOD
ACOUSTICAL OR CERAMIC TILE
GWB/PLASTER/ STUCCO/GROUT
RIGID INSULATION
BATT INSULATION

GENERAL SYMBOLS



ABBREVIATIONS

@	AT	FDN	FOUNDATION	OC	ON CENTER(S)
ACT	ACOUSTICAL TILE	FE	FIRE EXTINGUISHER	OD	OUTSIDE DIAMETER
AD	AREA DRAIN	FEC	FIRE EXTINGUISHER CABINET	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
AE	ARCHITECT-ENGINEER	FF	FINISHED FLOOR		
AFF	ABOVE FINISHED FLOOR	FHC	FIRE HOSE CABINET	OFOI	OWNER FURNISHED OWNER INSTALLED
AHU	AIR HANDLING UNIT	FIN	FINISH(ED)		
APPROX	APPROXIMATE	FIXT	FIXTURE	OFCRI	OWNER FURNISHED CONTRACTOR ROUGH IN
ARCH	ARCHITECT(URAL)	FL	FLOOR		
		FO	FACE OF	OH	OVERHEAD
BD	BOARD	FT	FOOT/FEET	OPH	OPPOSITE HAND
BIT	BITUMINOUS	FTG	FOOTING	OPP	OPPOSITE
BLDG	BUILDING				
BLK	BLOCK	GA	GAGE/GAUGE	PL	PLATE
BLKG	BLOCKING	GALV	GALVANIZED	PLAM	PLASTIC LAMINATE
BM	BEAM	GL	GLASS/GLAZING	PR	PAIR
BOT	BOTTOM	GWB	GYPSUM WALL BOARD	PT	PRESSURE TREATED
BRG	BEARING	GYP	GYPSUM		
BRK	BRICK			QT	QUARRY TILE
BUR	BUILT UP ROOFING	HA	HANDICAP ACCESSIBLE		
		HDW	HARDWARE	R	RISER/RADIUS
CEM PL	CEMENT PLASTER	HM	HOLLOW METAL	RD	ROOF DRAIN
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	HR	HOUR	REC	RECESSED
		HT	HEIGHT/HIGH	REINF	REINFORCE(D)(ING)
CHEM	CHEMICAL	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	REQ	REQUIRED
CJ	CONTROL JOINT/ CONSTRUCTION JOINT			RES	RESILIENT
				REV	REVISE(SION)(D)
CL	CENTER LINE	ID	INSIDE DIAMETER	RM	ROOM
CLG	CEILING	IN	INCH	RO	ROUGH OPENING
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATE(D)(ION)		
COL	COLUMN	INT	INTERIOR	S	SOUTH
CONC	CONCRETE			SC	SOLID CORE
CONF	CONFERENCE	JT	JOINT	SECT	SECTION
CONT	CONTINUE(OUS)			SIM	SIMILAR
CPT	CARPET(ED)	L	LENGTH	SPEC	SPECIFICATION(S)
CT	CERAMIC TILE	LAV	LAVATORY	SQ	SQUARE
		LBS	POUNDS	SS	STAINLESS STEEL
DBL	DOUBLE	LF	LINEAL FEET	STRUCT	STRUCTURAL
DEMO	DEMOLISH(TION)			SYS	SYSTEM
DET	DETAIL	MANUF.	MANUFACTURE		
DF	DRINKING FOUNTAIN	MAX	MAXIMUM	T	TREAD
DIA	DIAMETER	MECH	MECHANIC(AL)	THK	THICK(NESS)
DIM	DIMENSION	MET	METAL	TO	TOP OF
DIV	DIVISION	MFR	MANUFACTURE(R)	TYP	TYPICAL
DN	DOWN	MHDF	MOLDED HIGH DENSITY FIBERBOARD	TS	TRANSITION STRIP(FLOORING)
DR	DOOR				
DWG	DRAWING(S)	MIN	MINIMUM		
		MISC	MISCELLANEOUS	UC	UNDERCUT
E	EAST			UL	UNDERWRITERS LABORATORY
EA	EACH	N	NORTH	UON	UNLESS OTHERWISE NOTED
EJ	EXPANSION JOINT	NA	NOT APPLICABLE		
EL	ELEVATION	NIC	NOT IN CONTRACT	VCT	VINYL COMPOSITION TILE
ELEC	ELECTRIC(AL)	NO	NUMBER	VERT	VERTICAL
ELEV	ELEVATOR	NOM	NOMINAL	VTR	VENT THRU ROOF
EQ	EQUAL	NTS	NOT TO SCALE	VWC	VINYL WALL COVERING
EQUIP	EQUIPMENT				
EWC	ELECTRIC WATER COOLER			W	WEST/WIDTH
EXIST	EXISTING			W/	WITH
EXP	EXPOSED			W/O	WITHOUT
EXT	EXTERIOR			WPT	WORK POINT

LEGAL DESCRIPTION

SUDDUTHS 1ST ADD. ALL BLK 27 ORB 1789 P 1416 MAP 105C

APPLICABLE CODES

2023 FLORIDA BUILDING CODE (8th EDITION) BUILDING
2023 FLORIDA BUILDING CODE (8th EDITION) ENERGY CONSERVATION
2023 FLORIDA BUILDING CODE (8th EDITION) FUEL GAS
2023 FLORIDA BUILDING CODE (8th EDITION) PLUMBING
2023 FLORIDA BUILDING CODE (8th EDITION) MECHANICAL
2023 FLORIDA BUILDING CODE (8th EDITION) TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONE
2023 FLORIDA BUILDING CODE (8th EDITION) ACCESSIBILITY CODE

PROJECT DATA

NAME, ADDRESS, AND PHONE NUMBER OF OWNER:
HOLY NATIVITY SCHOOL FOUNDATION, INC.
222 N. BONITA AVENUE
PANAMA CITY, FL 32401

PROJECT ADDRESS:
205 HAMILTON AVENUE
PANAMA CITY BEACH, FL 32401

OCCUPANCY CLASSIFICATION:
E

CONSTRUCTION TYPE:
V-B

SIZE (GROSS SQ. FT.) OF BUILDING:
4,567 TOTAL SQ. FT.

PROJECT TEAM

ARCHITECT:
VBA DESIGN, INC.
2424 JENKS AVE, SUITE B
PANAMA CITY, FL. 32405
(850) 769-3357

CIVIL ENGINEER:
MCNEIL CARROLL ENGINEERING
17800 PANAMA CITY BEACH PRKWY.
PANAMA CITY BEACH, FL. 32413
(850) 234-1730

STRUCTURAL ENGINEER:
BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
(251) 219-4942

MECHANICAL ENGINEER:
JOHNSON PEADEN ENGINEERING
1399M JENKS AVE.
PANAMA CITY, FL. 32401
(850) 215-4068

ELECTRICAL ENGINEER:
YATES ENGINEERING SOLUTIONS
7159 BLUE JACK DRIVE
NAVARRE, FL. 32566
(850) 512-9579

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

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Date: 2025.03.07 09:05:08 -06'00'

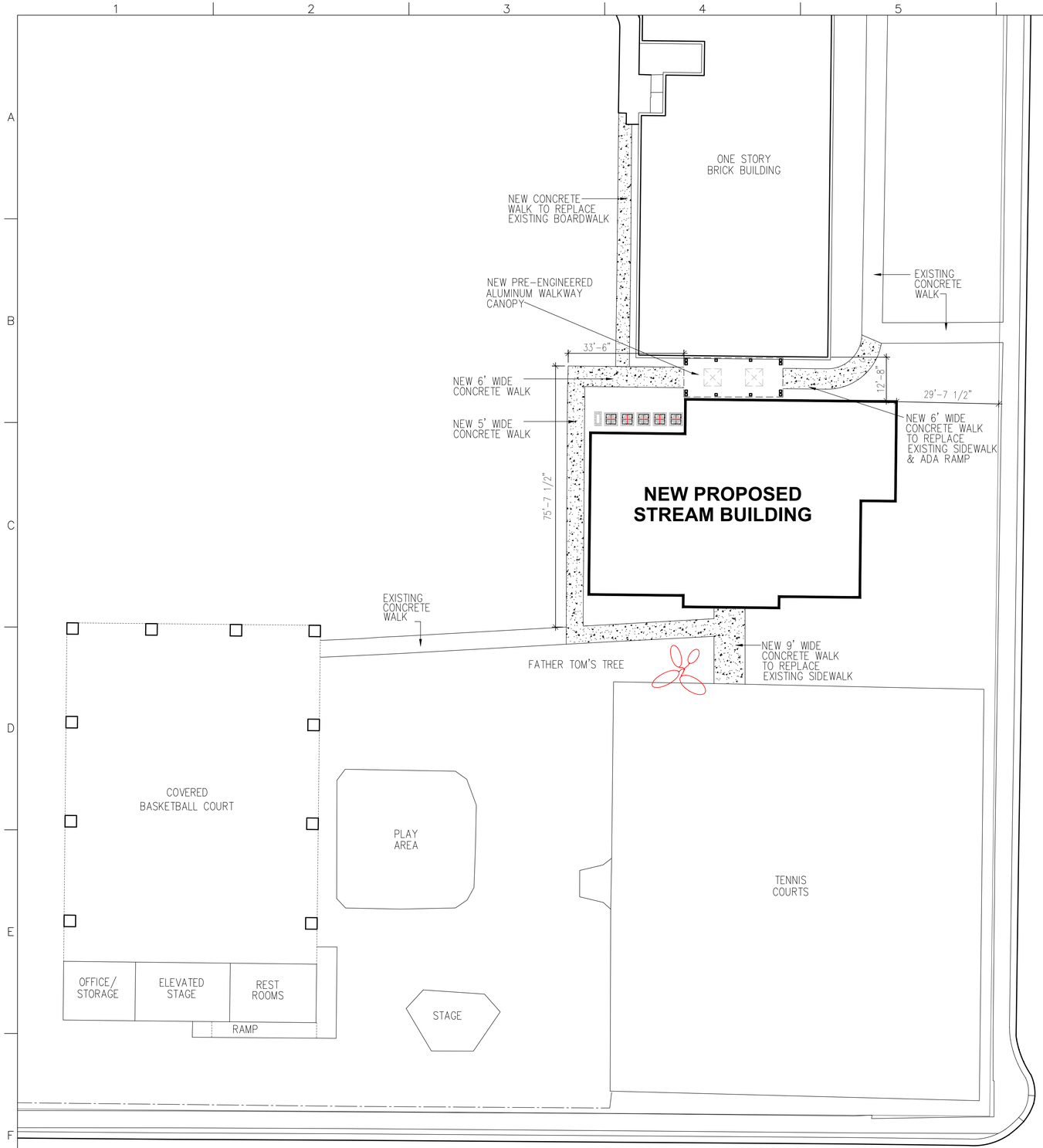
DATE 01-31-2025
DRAWN FL | REVIEWED VW

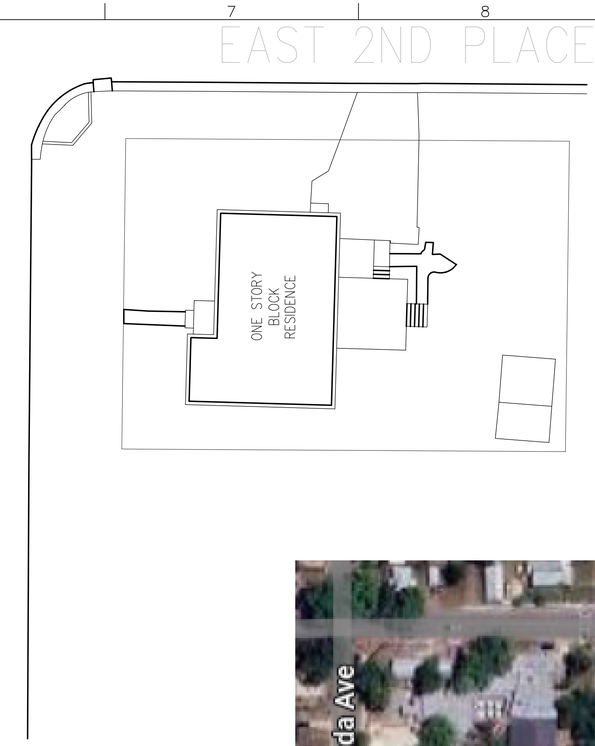
REVISIONS NO.	DATE	DESC.

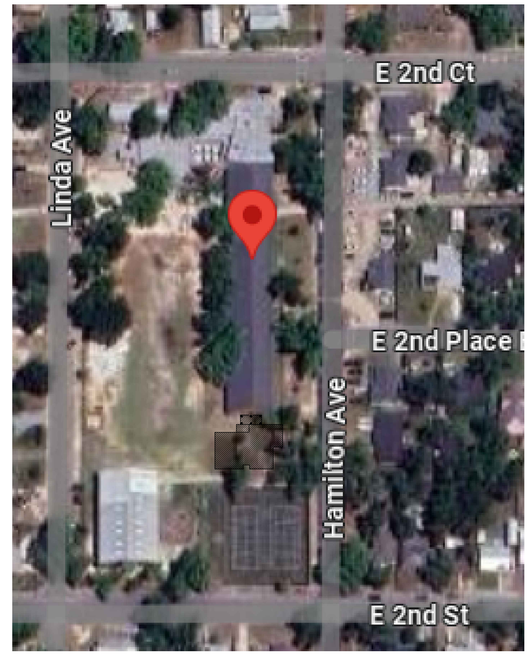
PROJECT # 2409

CONSTRUCTION DOCUMENTS
COVER SHEET
NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. G0.1







SITE OVERLAY
SCALE: NOT TO SCALE

SITE PLAN
SCALE: 1/16" = 1'-0"

NOTES:
1. ARCHITECTRUAL PLAN IS DIAGRAMMATIC. SEE CIVIL ENGINEERING DRAWINGS FOR SITE WORK.

LICENSE NO. AR94000
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FAX: 850 763 0410

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PANAMA CITY, FLORIDA 32405
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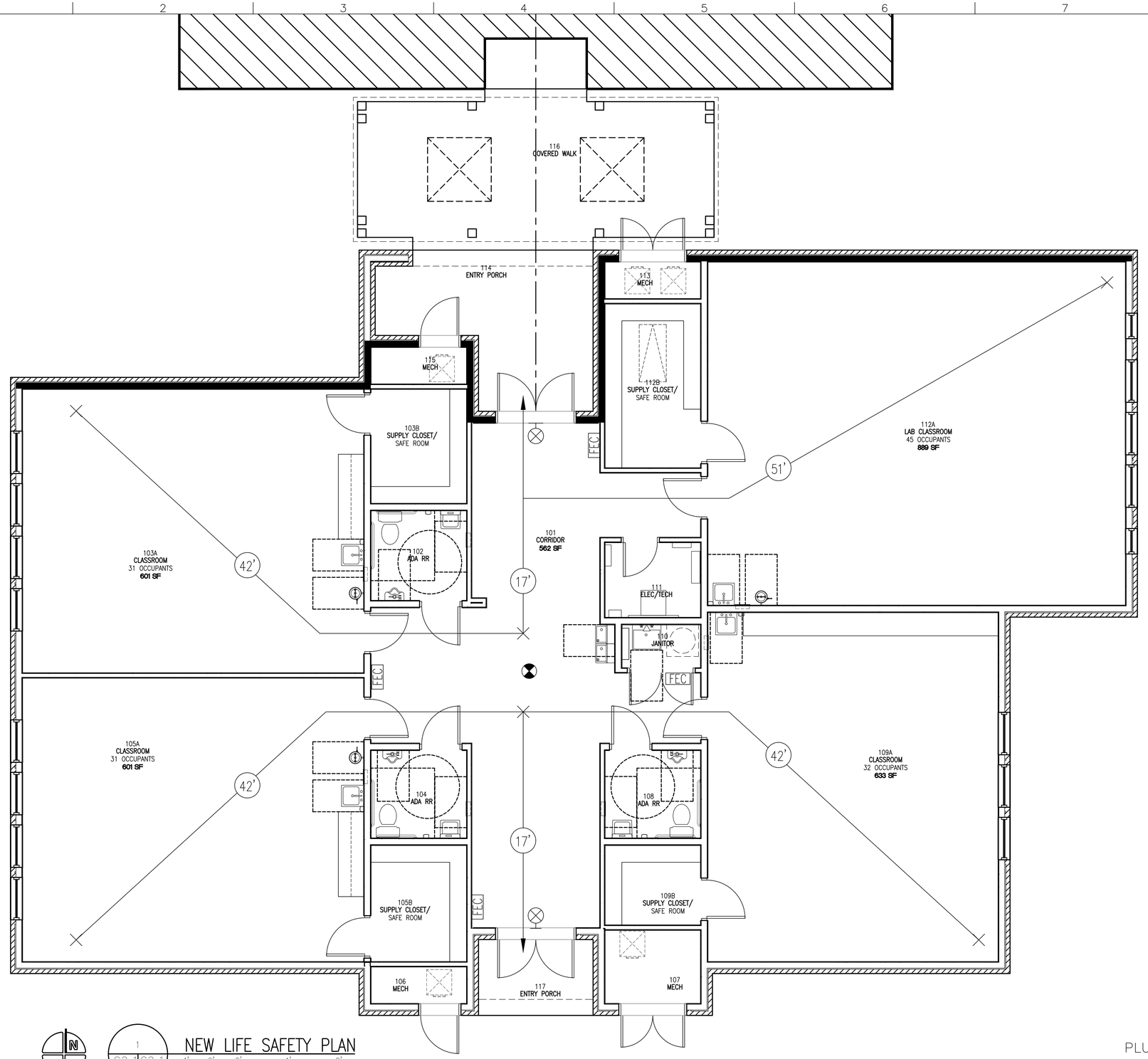
CONSTRUCTION DOCUMENTS

NEW SITE PLAN

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. G1.1



1 G2.1 G2.1

NEW LIFE SAFETY PLAN

4' 2' 0' 4' 8'

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

NOTES

1. LIFE SAFETY PLANS ARE INTENDED TO HIGHLIGHT FIRE WALLS AND EGRESS ACCESSORIES.
2. REFER TO ELECTRICAL FOR DETAILS ON EMERGENCY LIGHTING.
3. REFER TO MECHANICAL FOR DETAILS ON FIRE DAMPERS; FIRE DAMPERS REQUIRED IN FIRE WALLS AND FIRE RATED CEILING ASSEMBLIES.

LIFE SAFETY LEGEND

- FEC — FIRE EXTINGUISHER CABINET
- EXIT SIGN FACE & DIRECTION
- XX — EXIT CAPACITY (CLEAR INCHES)
- XX' — TRAVEL DISTANCE
- WALL MOUNTED EXIT LIGHT
- 1 HOUR SHAFT WALL- HORIZ WITH 1 HOUR WALL UL #U423 FRIE TEST WH1651 -306.1
- 1 HOUR FIRE RATED WALL TO ROOF DECK
- 2 HOUR FIRE RATED WALL TO ROOF DECK

PROJECT DATA

OCCUPANCY
Occupancy(ies) / Group Classification: EDUCATIONAL
Occupant/ Sq. Ft.: 20 NET
Total Net Floor Area: 2,726 SF
Total Occupants: 137

Type of Construction: TYPE VB CONSTRUCTION
Protected or Unprotected: UNPROTECTED
Sprinklered or Non-Sprinklered: NON-SPRINKLERED
Max. Building Height: 40'
Max. Number of Stories: 1
Max. Floor Area: 9,500 SF

EXITS
Minimum Number of Exits: 2
Maximum Travel Distance: 200 FT
Maximum Dead End Corridor: 20 FT
Min. Corridor/ Aisle Width: 72 IN
Minimum Stair Width: N.A.
NOTE 44" if serving 50 or more people
36" if serving less than 50 people

Egress Width, Level: (No. of persons) 137 x .2 in.= 27.4
# of Exits: 2 Average Width of Exits: 72"

FIRE PROTECTION
FIRE PROTECTION REQUIREMENTS

Interior Bearing:	0 HOUR
Columns:	0 HOUR
Floor/ Ceiling:	0 HOUR
Interior Non-bearing:	0 HOUR
Beams, Girders, Trusses:	0 HOUR
Roof/ Ceiling:	0 HOUR

PLUMBING FIXTURE COUNT

CLASSIFICATION	WATER CLOSETS MALE		WATER CLOSETS FEMALE		LAVATORIES MALE & FEMALE		BATHTUBS/ SHOWERS	DRINKING FOUNTAINS		SERVICE SINK	
	Required	Provided	Required	Provided	Required	Provided		Required	Provided	Required	Provided
Educational	3	3	3	3	2	7	N/A	2	2	1	1

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
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PANAMA CITY, FLORIDA 32405
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LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

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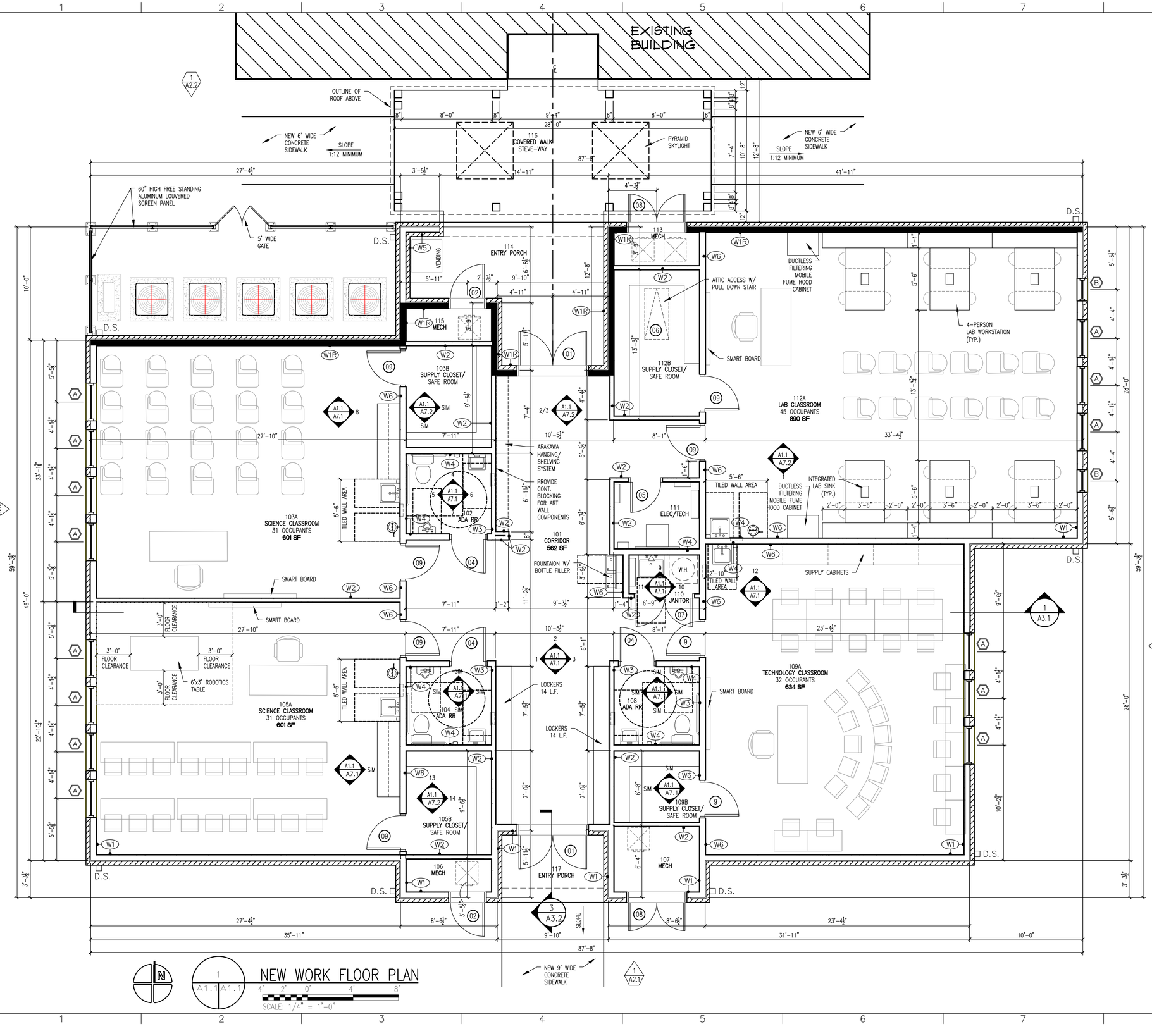
PROJECT # 2409

CONSTRUCTION DOCUMENTS
NEW LIFE SAFETY PLAN
NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA

SHEET NO. G2.1



NOTES

1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE TAKEN TO THE FACE OF THE STUD, CONCRETE OR CMU.
2. ALL CASEWORK IS FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
3. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION CONTACT THE PROJECT MANAGER FOR CLARIFICATION BEFORE CONTINUING WITH CONSTRUCTION.
4. VERIFY ALL ON SITE DIMENSIONS AND EQUIPMENT LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ANY ITEM IN ORDER TO COMPLETE THE REQUIREMENTS OF THIS CONTRACT.
5. CLASSROOM FURNITURE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY AND IS NOT IN CONTRACT.
6. LAB WORKSTATION TO BE INCLUDED IN CONTRACT AND FURNISHED BY THE GENERAL CONTRACTOR.
7. SMART BOARD TO BE VIEWSONIC IFP8650 OR SIMILAR.
8. ALL NEW DOORS ARE TO MATCH EXISTING DOOR OF ADJACENT BUILDING.
9. ALUMINUM LOUVERED SCREEN PANEL FOR MECHANICAL SCREENING TO MEET FLORIDA CODE AND REGULATIONS. PANEL MODEL TO BE PALMSHIELD MERCURY ECO LOUVERS OR SIMILAR. POSTS TO BE SET IN A CONCRETE FOOTING AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

REFER TO COVER SHEET FOR PLAN SYMBOL DESIGNATIONS.

LEGEND

- INTERIOR ELEVATION DESIGNATION
- (1) DOOR DESIGNATION SEE SHEET A6.1
- (W#) WALL TYPES – SEE 2/A1.2
- (X) NEW WINDOW – SEE SHEET A6.1
- X / XX.X EXTERIOR ELEVATION DESIGNATION
- 2 HOUR FIRE RATED WALL TO ROOF DECK
- D.S. ALUMINUM DOWNSPOUTS & PROVIDE SPLASH BLOCKS

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

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PROJECT # 2409

CONSTRUCTION DOCUMENTS

NEW WORK FLOOR PLAN

NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL 205 HAMILTON AVENUE

PANAMA CITY FLORIDA

SHEET NO. A1.1

NEW
PRE-ENGINEERED
ALUMINUM CANOPY
W/ INTEGRATED
GUTTER/DOWNSPOUTS

SKYLIGHTS IN
PRE-ENGINEERED
ALUMINUM CANOPY

ALUMINUM GUTTER

D.S.

M.E. TYP.

LINE OF NEW BUILDING BELOW (TYP.)

VALLEY

RIDGE

M.E. SLOPE

ALUMINUM GUTTER

NOTES

1. UNLESS OTHERWISE NOTED, ALL NEW ROOF AND OVERHANGS TO MATCH EXISTING SLOPE, MATERIAL, AND COLOR.

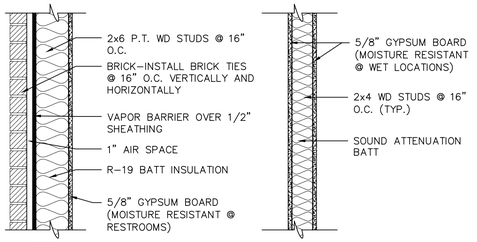
LEGEND

SLOPE X:12 — ROOF SLOPE

NEW SHINGLE
MANUFACTURER: GAF
COLOR: PEWTER GRAY

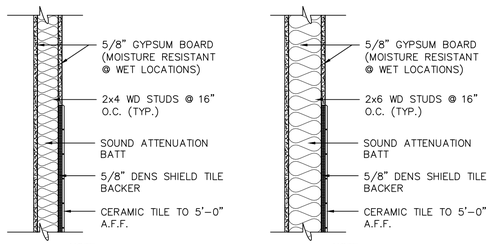
M.E. — MATCH EXISTING ADJACENT BUILDING

D.S. — ALUMINUM DOWNSPOUTS



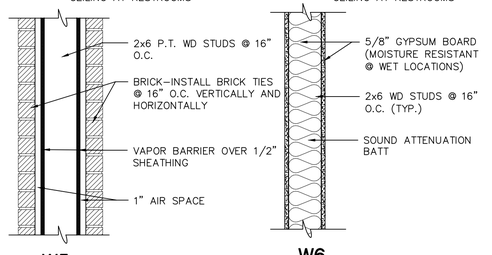
W1
W1R 2-HR. FIRE RATED WALL
UL Design No. W408

W2



W3 NOTE: EXTEND BACKER AND TILE TO CEILING AT RESTROOMS

W4 NOTE: EXTEND BACKER AND TILE TO CEILING AT RESTROOMS



W5

W6

2 A1.1 | A1.2 — WALL TYPES
1' 6" 0' 1' 2'
SCALE: 1" = 1'-0"

1 A1.2 | A1.2 — NEW WORK ROOF PLAN
4' 2' 0' 4' 8'
SCALE: 1/4" = 1'-0"

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

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ARCHITECTS AND PLANNERS
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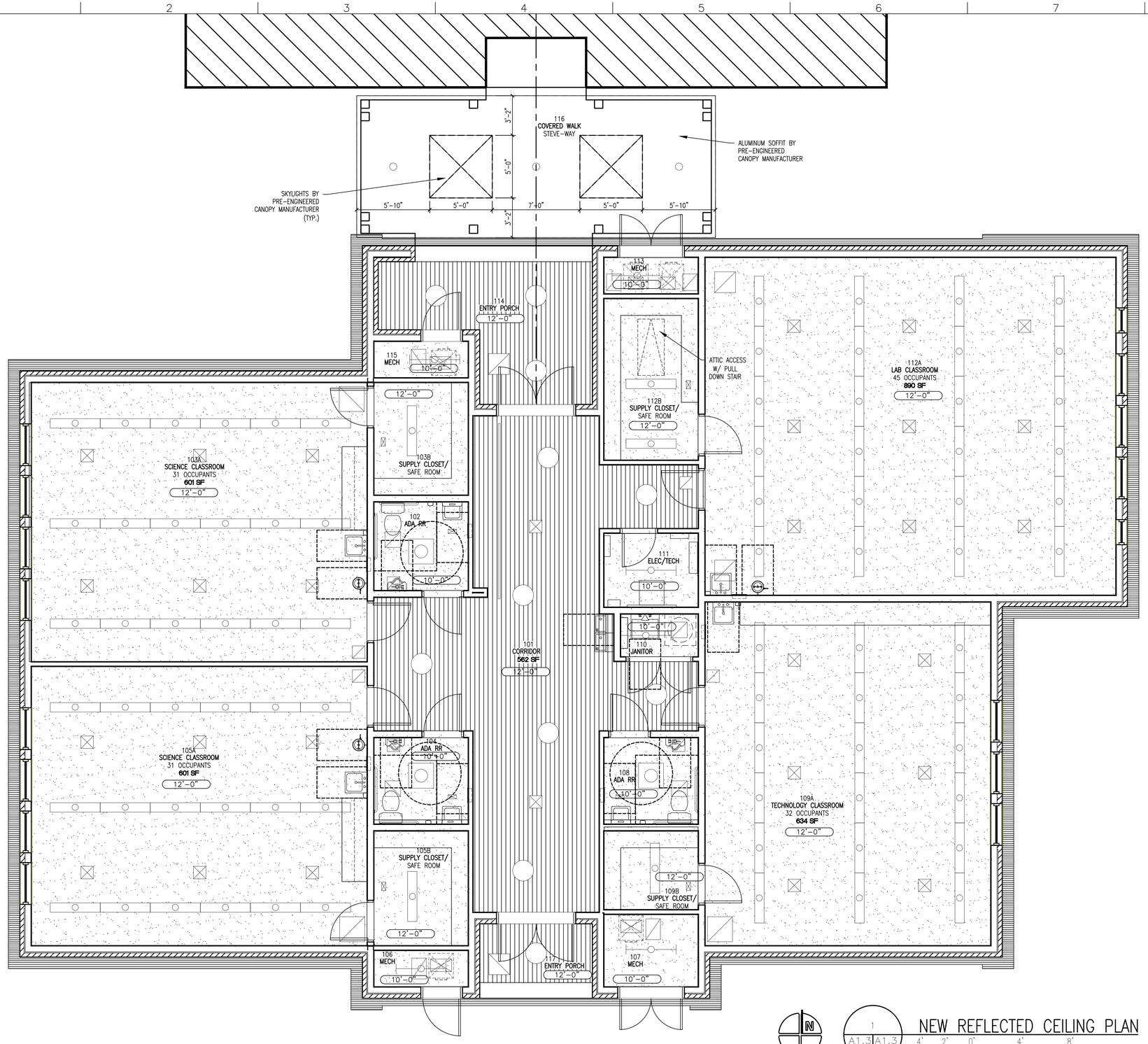
PROJECT # 2409

CONSTRUCTION DOCUMENTS

NEW WORK ROOF PLAN & WALL TYPES

NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA

SHEET NO. A1.2



NEW REFLECTED CEILING PLAN

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

LEGEND

- "ONE" GYP. BOARD – MOISTURE RESISTANT / GREEN BOARD IN ALL WET AREAS
- VINYL SOFFIT TO MATCH EXISTING
- SHIPLAP CEILING TO MATCH EXISTING

ELECTRICAL LEGEND

REFER TO ELECTRICAL PLANS FOR LOCATION OF ITEMS INDICATED IN THIS LEGEND.

- LED SURFACE MOUNTED LIGHT
- LED ROUND LENS STRIP
- LED SURFACE MOUNTED LIGHT
- LED SURFACE MOUNTED DOWNLIGHT RING
- LED SURFACE MOUNTED LIGHT
- ADJUSTABLE ART LIGHT
- SUPPLY OR OUTSIDE AIR DUCT
- RETURN OR EXHAUST AIR DUCT
- AIR DIFFUSER

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PROJECT # 2409

CONSTRUCTION DOCUMENTS

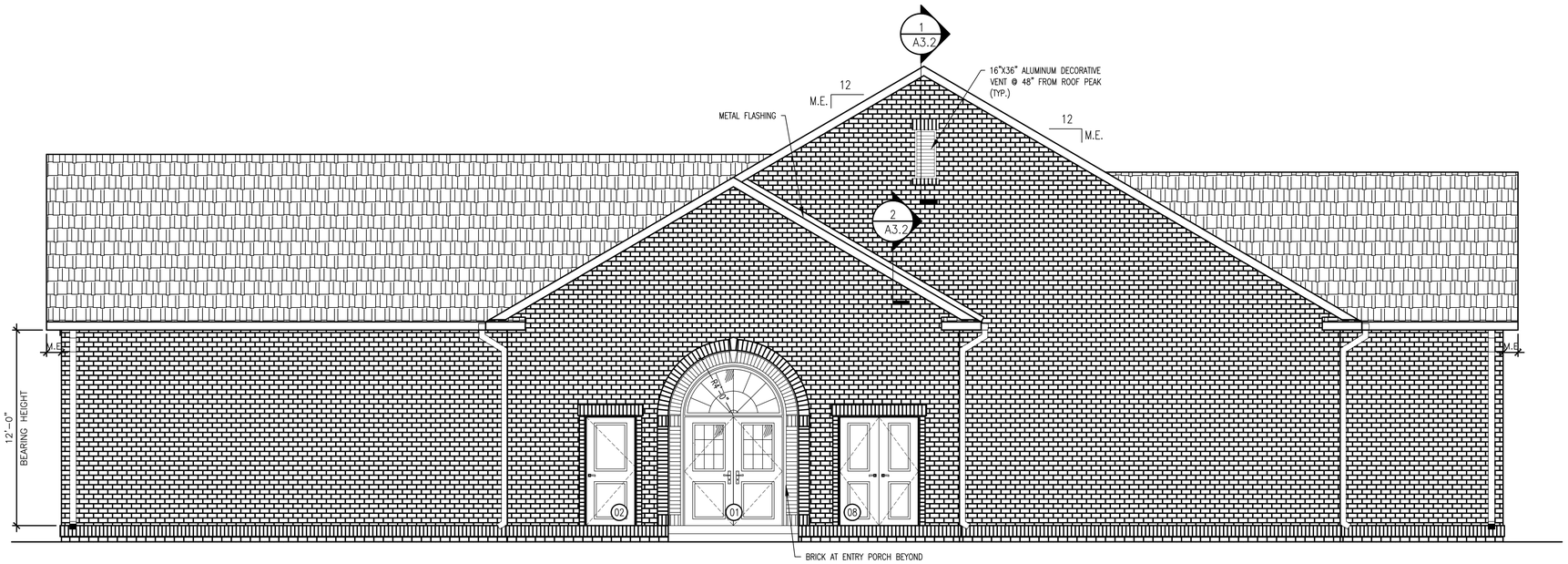
NEW REFLECTED CEILING PLAN

NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL

205 HAMILTON AVENUE

PANAMA CITY, FLORIDA

SHEET NO. A1.3



1 A1.1 A2.1

SOUTH ELEVATION

4' 2' 0' 4' 8'

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

GRAPHIC LEGEND

NEW SHINGLE
MANUFACTURER: GAF
COLOR: PEWTER GRAY

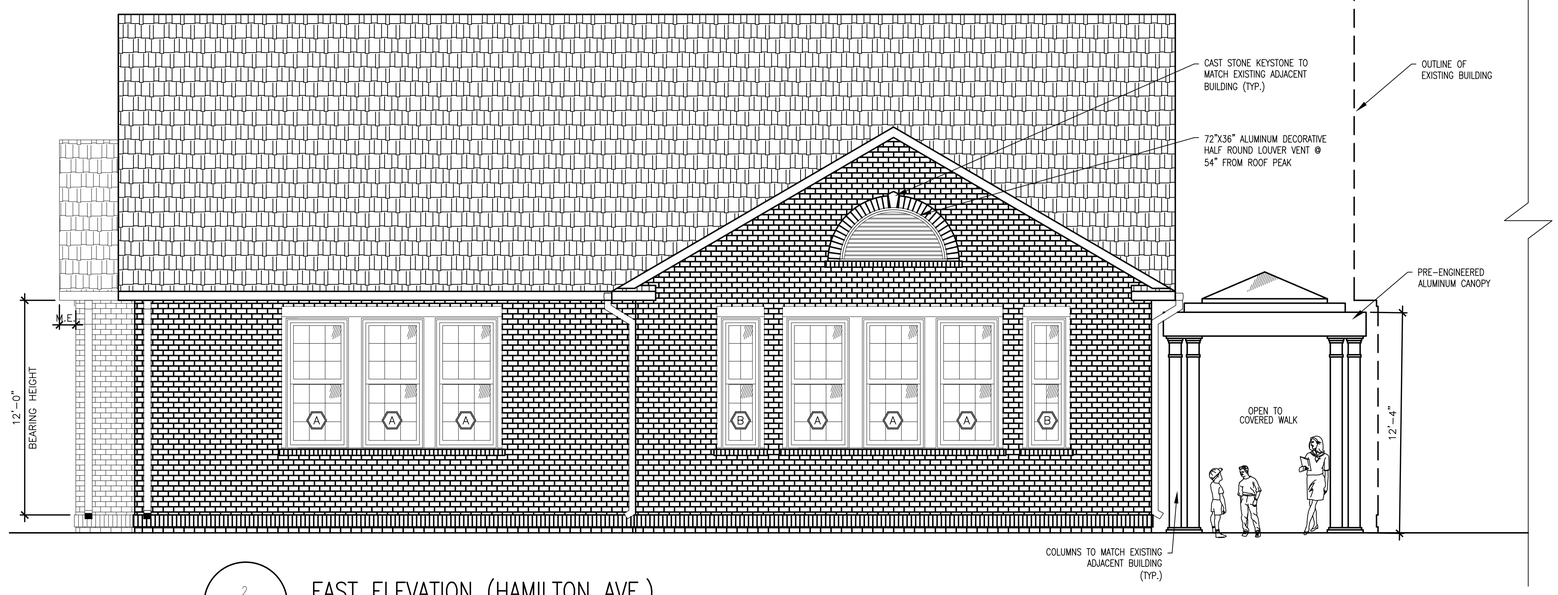
BRICK VENEER TO MATCH EXISTING ADJACENT BUILDING

M.E. MATCH EXISTING

NOTES

1. UNLESS OTHERWISE NOTED ALL NEW ROOF SLOPES TO MATCH EXISTING.
2. UNLESS OTHERWISE NOTED ALL SOFFITS TO MATCH EXISTING DIMENSIONS.
3. BRICK & MORTAR AT ADDITION TO MATCH EXISTING ADJACENT BUILDING.

REFER TO COVER SHEET FOR PLAN SYMBOL DESIGNATIONS.



2 A1.1 A2.1

EAST ELEVATION (HAMILTON AVE.)

4' 2' 0' 4' 8'

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

LICENSE NO. AR94000
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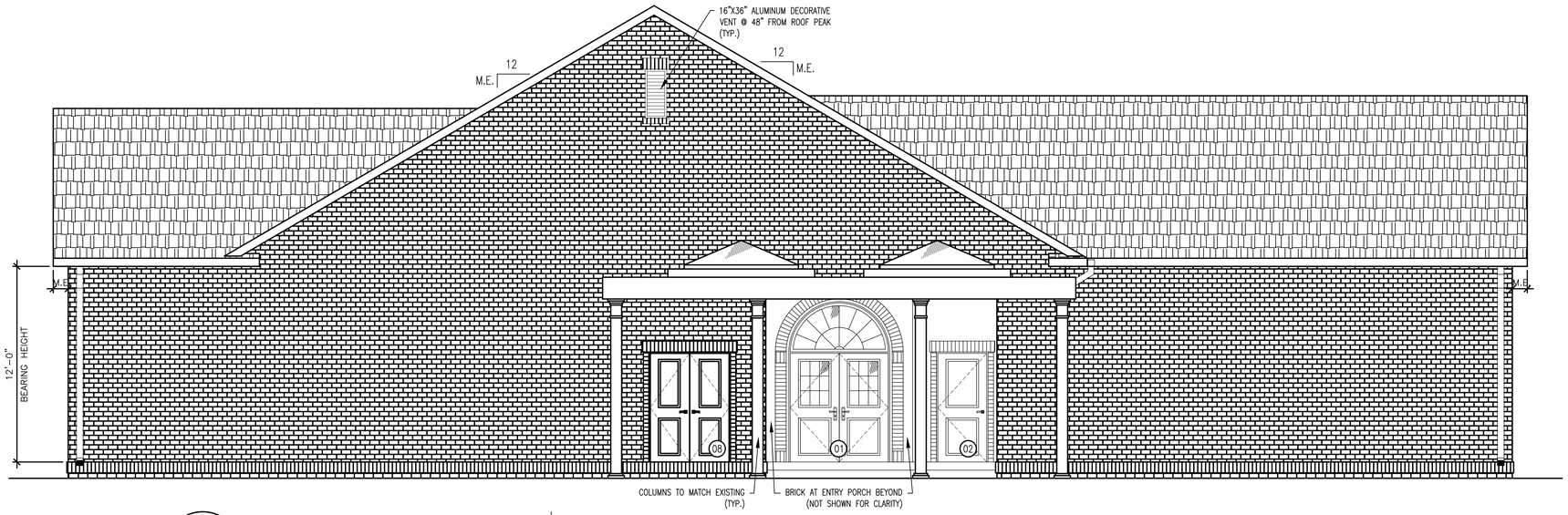
PROJECT # 2409

CONSTRUCTION DOCUMENTS

NEW EXTERIOR ELEVATIONS

NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. A2.1



1 A1.1 A2.2 NORTH ELEVATION

4' 2' 0' 4' 8'

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

GRAPHIC LEGEND

NEW SHINGLE
MANUFACTURER: GAF
COLOR: PEWTER GRAY

BRICK VENEER TO MATCH EXISTING

M.E. MATCH EXISTING

NOTES

1. UNLESS OTHERWISE NOTED ALL NEW ROOF SLOPES TO MATCH EXISTING.
2. UNLESS OTHERWISE NOTED ALL SOFFITS TO MATCH EXISTING DIMENSIONS.
3. BRICK & MORTAR AT ADDITION TO MATCH EXISTING ADJACENT BUILDING.

REFER TO COVER SHEET FOR PLAN SYMBOL DESIGNATIONS.

2 A1.1 A2.2 WEST ELEVATION

4' 2' 0' 4' 8'

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

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

VBA DESIGN

STATE OF FLORIDA — VICTORIA L. WILLIAMS — LICENSE NO. AR94000 — REGISTERED ARCHITECT

Digitally signed by Victoria Williams
DN: cn=Victoria Williams, o=VBA Design, Inc., ou, email=vwilliams@vbadesign.us, c=US
Date: 2025.03.07 09:31:32 -06'00'

DATE 01-31-2025

DRAWN	REVIEWED
FL	VW

REVISIONS NO.	DATE	DESC.

PROJECT # 2409

CONSTRUCTION DOCUMENTS

NEW EXTERIOR ELEVATIONS

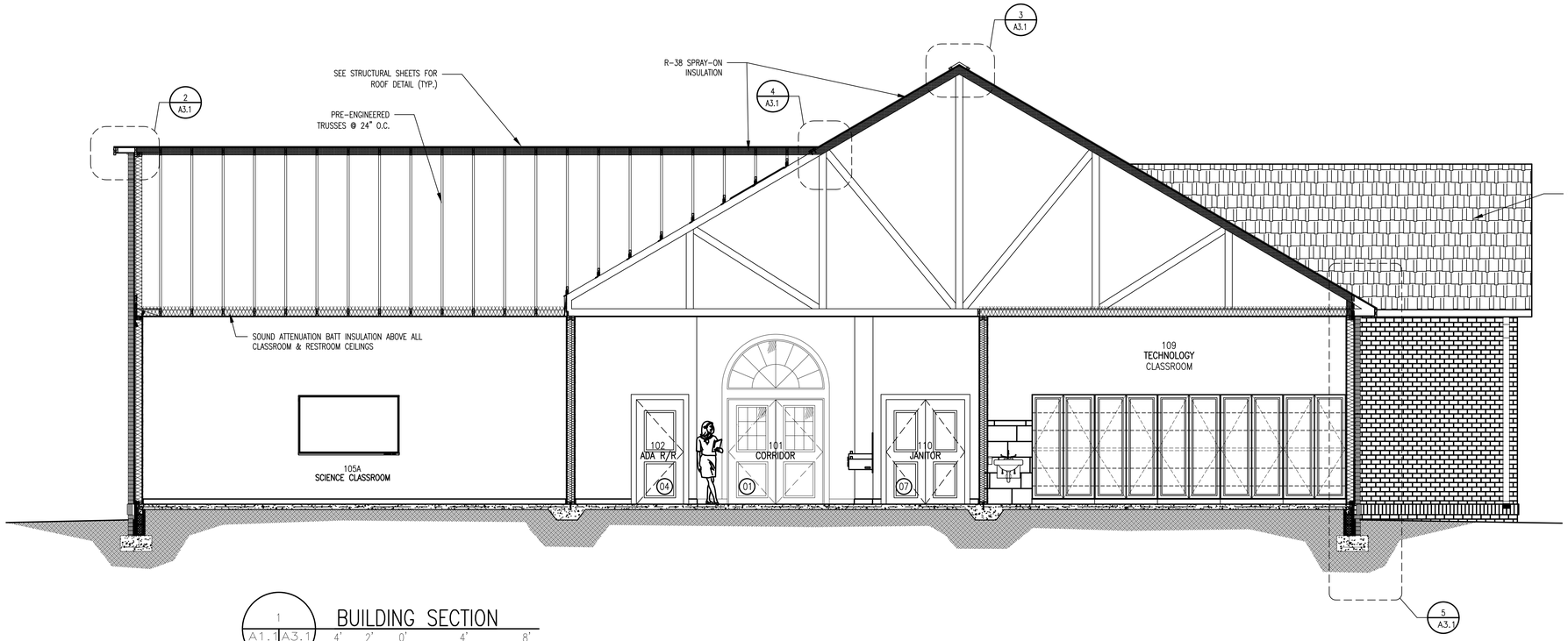
NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL 205 HAMILTON AVENUE

PANAMA CITY FLORIDA

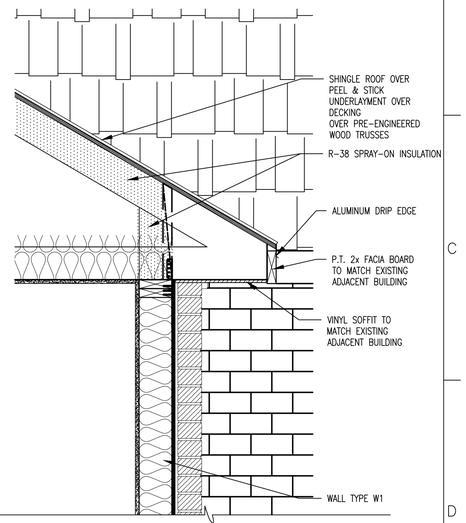
SHEET NO. A2.2

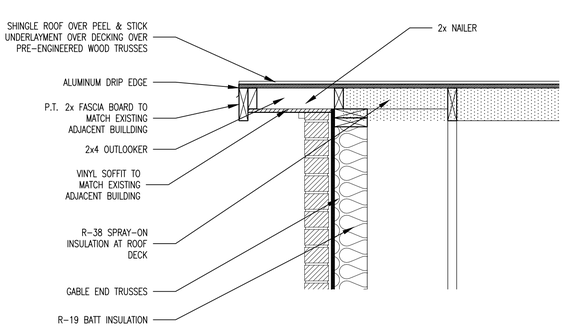
NOTES

1. TRUSS MANUFACTURER TO CONSTRUCT TRUSSES TO PROVIDE STRUCTURAL BOTTOM CHORD FOR ATTIC STORAGE WITH AS MUCH HEAD HEIGHT AS POSSIBLE.

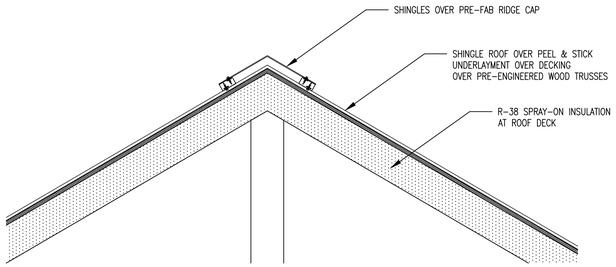


1 A1.1 A3.1 — BUILDING SECTION
SCALE: 1/4" = 1'-0"

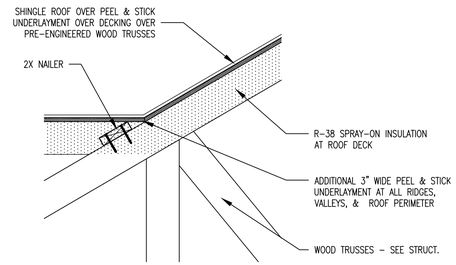




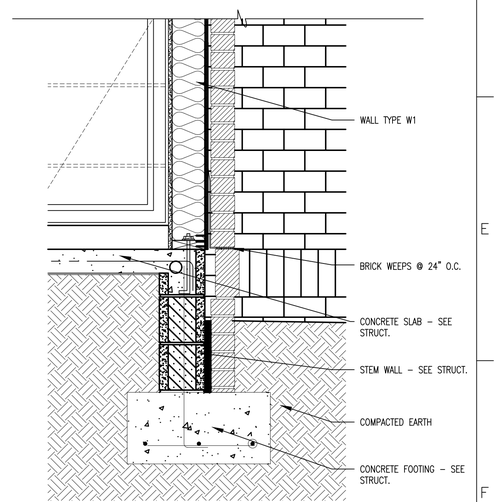
2 A3.1 A3.1 — EAVE DETAIL
SCALE: 1" = 1'-0"



3 A3.1 A3.1 — RIDGE DETAIL
SCALE: 1" = 1'-0"



4 A3.1 A3.1 — CONNECTION & VALLEY DETAIL
SCALE: 1" = 1'-0"



5 A3.1 A3.1 — SOFFIT & FOUNDATION DETAIL
SCALE: 1" = 1'-0"

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

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ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

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DN: cn=Victoria Williams, o=VBA Design, Inc., ou, email=williams@vbadesign.us, c=US
Date: 2025.03.07 09:32:59 -06'00'

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DRAWN FL REVIEWED VW

REVISIONS NO.	DATE	DESC.

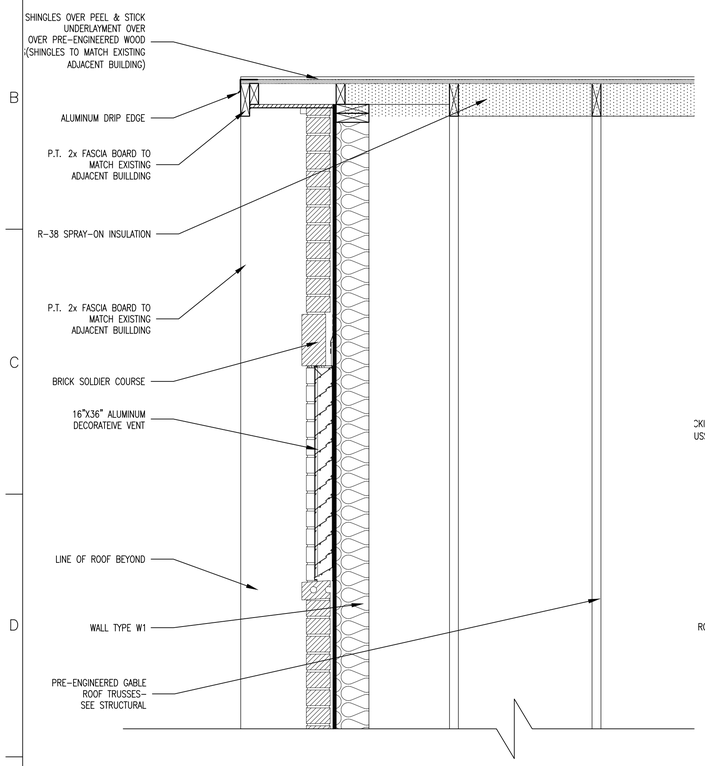
PROJECT # 2409

CONSTRUCTION DOCUMENTS

BUILDING SECTIONS

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA

SHEET NO. A3.1

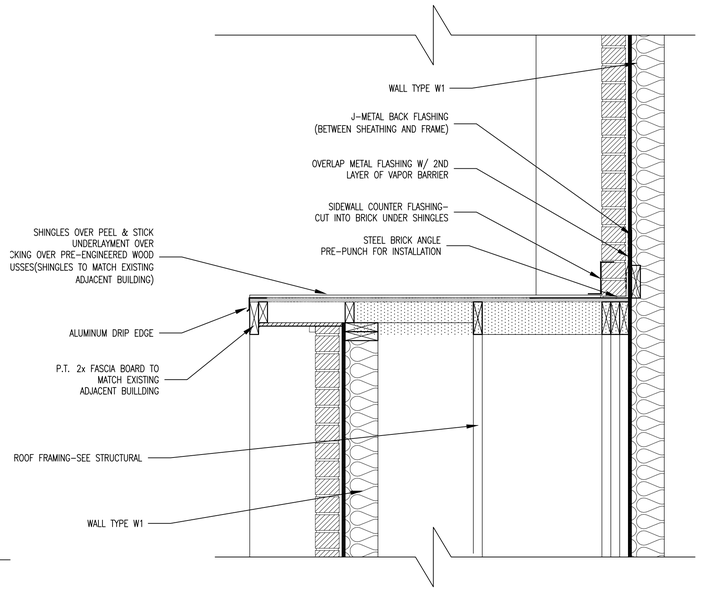


1 A2.1 A3.1

GABLE OVERHANG DETAIL

1' 6" 0' 1' 2'

SCALE: 1" = 1'-0"

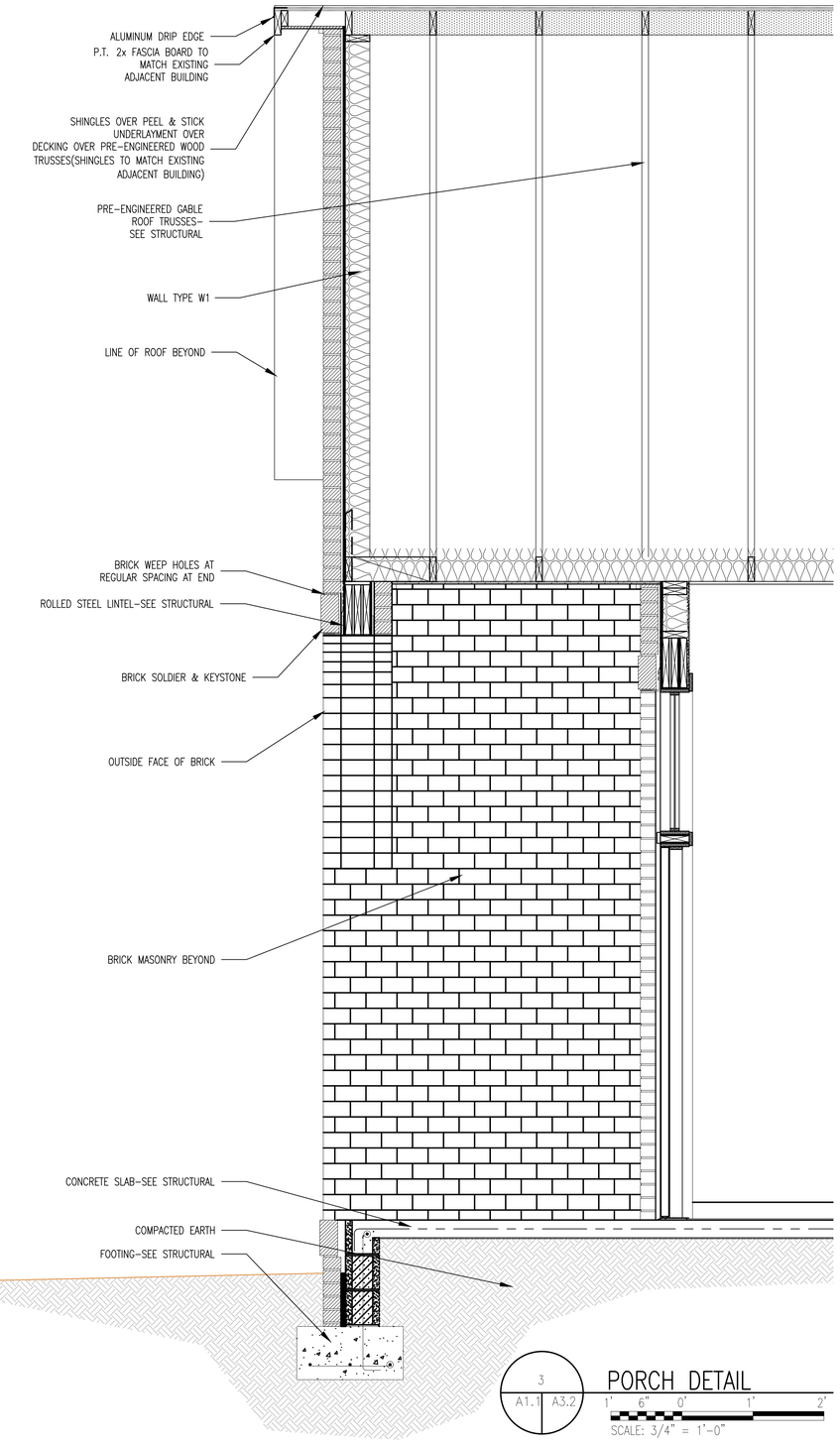


2 A2.1 A3.2

ROOF SIDEWALL DETAIL

1' 6" 0' 1' 2'

SCALE: 1" = 1'-0"



3 A1.1 A3.2

PORCH DETAIL

1' 6" 0' 1' 2'

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

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

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DN: cn=Victoria.Williams, o=VBA Design, Inc., ou, email=vwilliams@vbadesign.us, c=US
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DATE 01-31-2025
DRAWN FL REVIEWED VW

REVISIONS NO.	DATE	DESC.

PROJECT # 2409

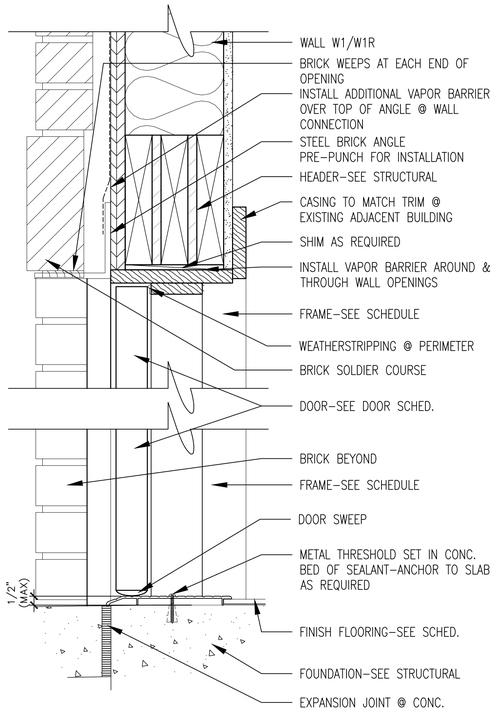
CONSTRUCTION DOCUMENTS

BUILDING SECTIONS

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE

PANAMA CITY FLORIDA

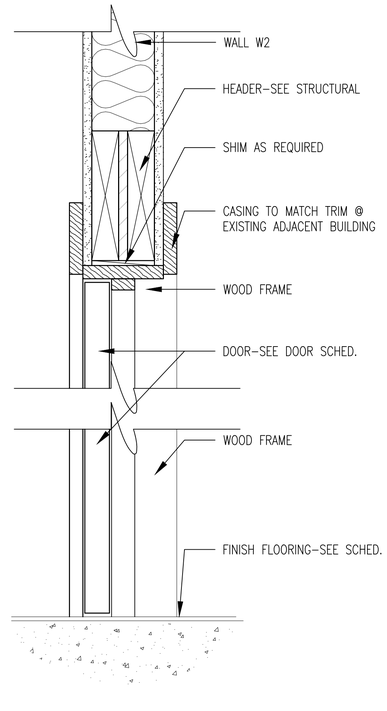
SHEET NO. A3.2



1 A6.1 A5.1 EXT. SWING HEAD/THRESHOLD

4" 2" 0' 4" 8"

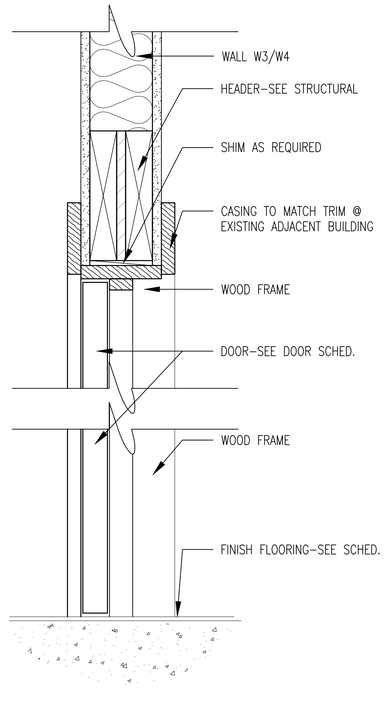
SCALE: 3" = 1'-0"



3 A6.1 A5.1 INT. SWING HEAD/THRESHOLD

4" 2" 0' 4" 8"

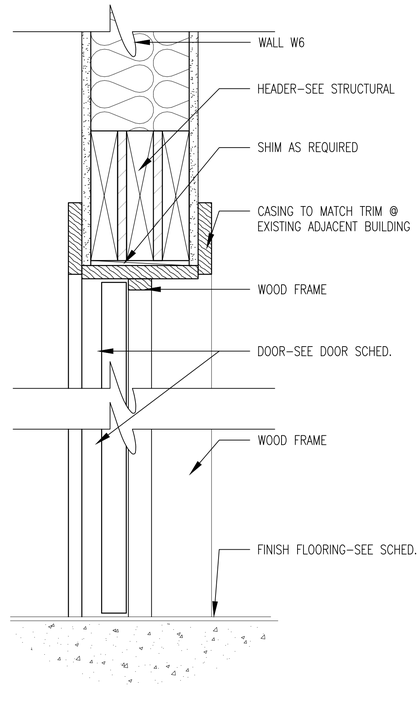
SCALE: 3" = 1'-0"



5 A6.1 A5.1 INT. SWING HEAD/THRESHOLD

4" 2" 0' 4" 8"

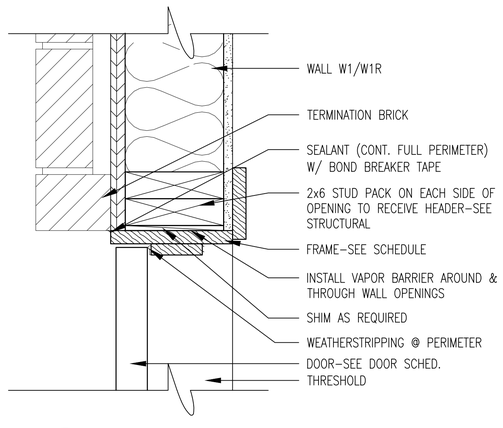
SCALE: 3" = 1'-0"



7 A6.1 A5.1 INT. SWING HEAD/THRESHOLD

4" 2" 0' 4" 8"

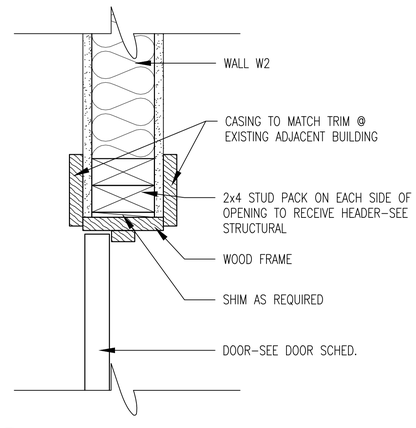
SCALE: 3" = 1'-0"



2 A6.1 A5.1 EXT. SWING JAMB

4" 2" 0' 4" 8"

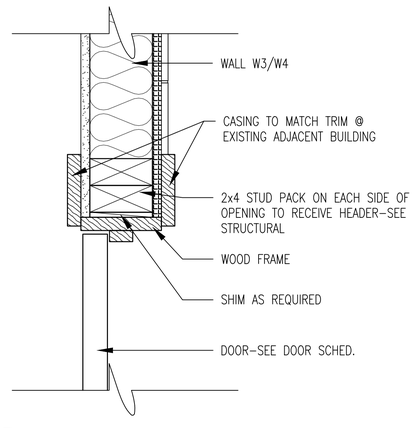
SCALE: 3" = 1'-0"



4 A6.1 A5.1 INT. SWING JAMB

4" 2" 0' 4" 8"

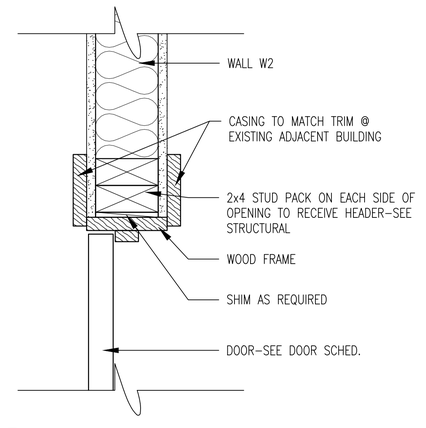
SCALE: 3" = 1'-0"



6 A6.1 A5.1 INT. SWING JAMB

4" 2" 0' 4" 8"

SCALE: 3" = 1'-0"



8 A6.1 A5.1 INT. SWING JAMB

4" 2" 0' 4" 8"

SCALE: 3" = 1'-0"

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

VBA DESIGN

STATE OF FLORIDA VICTORIA WILLIAMS LICENSED ARCHITECT

Digitally signed by Victoria Williams
DN: cn=Victoria Williams, o=VBA Design, Inc., ou, email=vwilliams@vbadesign.us, c=US
Date: 2025.03.07 09:47:25 -06'00'

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FL	VW

REVISIONS

NO.	DATE	DESC.

PROJECT # 2409

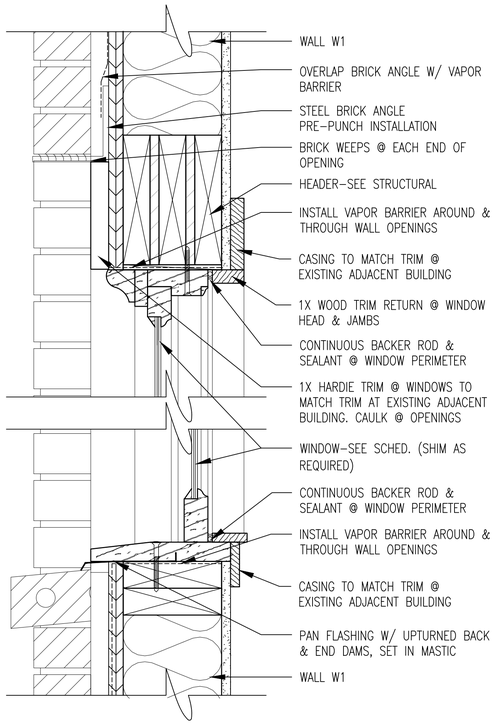
CONSTRUCTION DOCUMENTS

DOOR DETAILS

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE

PANAMA CITY FLORIDA

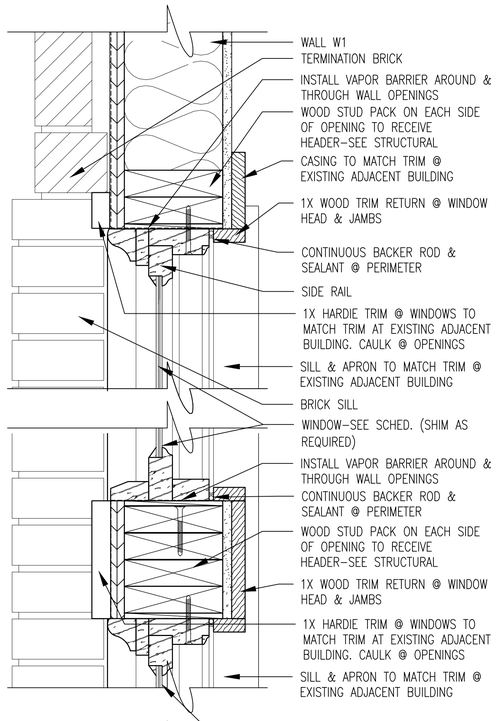
SHEET NO.
A5.1

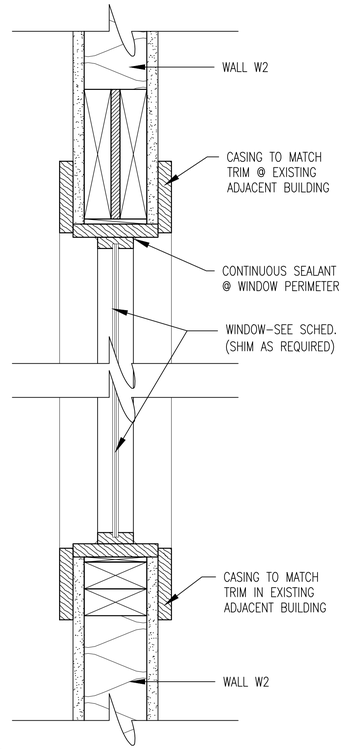


1 A6.1 A5.2 SINGLE HUNG HEAD/SILL

4" 2" 0' 4" 8"

SCALE: 3" = 1'-0"

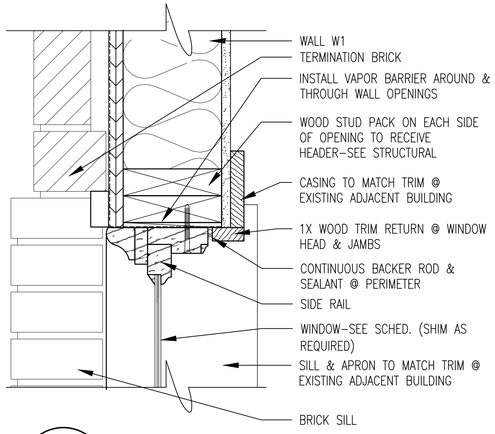




4 A6.1 A5.2 INT. FIXED WINDOW HEAD/SILL

4" 2" 0' 4" 8"

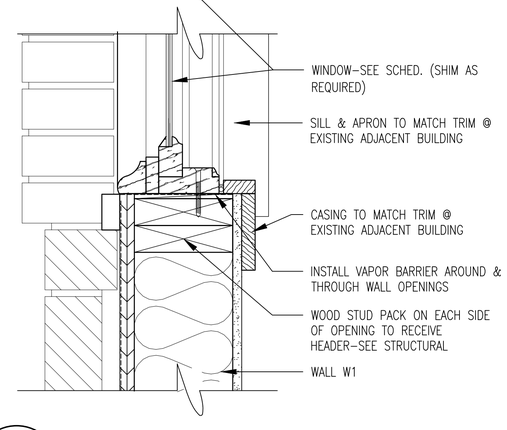
SCALE: 3" = 1'-0"



2 A6.1 A5.2 SINGLE HUNG JAMB

4" 2" 0' 4" 8"

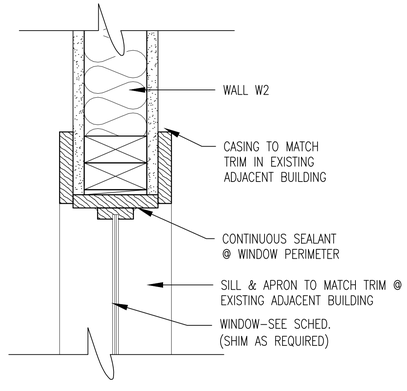
SCALE: 3" = 1'-0"



3 A6.1 A5.2 SINGLE HUNG JAMB

4" 2" 0' 4" 8"

SCALE: 3" = 1'-0"



5 A6.1 A5.2 INT. FIXED JAMB

4" 2" 0' 4" 8"

SCALE: 3" = 1'-0"

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Digitally signed by Victoria Williams
DN: cn=Victoria Williams, o=VBA Design, Inc., ou, email=vwilliams@vbadesign.us, c=US
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NO. DATE DESC.

PROJECT # 2409

CONSTRUCTION DOCUMENTS

WINDOW DETAILS

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. A5.2

DOOR SCHEDULE

DOOR NO.	DOOR ELEV.	WIDTH	HGT	THK	MTL	FIN	GLAZING	FRAME ELEV.	MTL	FIN	HEAD	JAMB	SILL	NOTES	HDWR
01	A	6'–0"	7'–0"	1 3/4"	WD	PT	LMI	1	WD	PT	1/A5.1	2/A5.1	1/A5.1	7	A1
02	B	3'–0"	7'–0"	1 3/4"	WD	PT	N/A	2	WD	PT	1/A5.1	2/A5.1	1/A5.1	7	A1
03	C	3'–0"	6'–8"	1 3/8"	WD	PT	N/A	3	WD	PT	3/A5.1	4/A5.1	3/A5.1	–	3
04	C	3'–0"	6'–8"	1 3/8"	WD	PT	N/A	3	WD	PT	5/A5.1	6/A5.1	5/A5.1	–	2
05	D	2'–8"	6'–8"	1 3/8"	WD	PT	N/A	4	WD	PT	3/A5.1	4/A5.1	3/A5.1	–	1
06	–	2'–1 1/2"	4'–6"	1 3/8"	WD	PT	N/A	N/A	WD	PT	N/A	N/A	N/A	6	N/A
07	E	5'–0"	6'–8"	1 3/8"	WD	PT	N/A	5	WD	PT	3/A5.1	4/A5.1	3/A5.1	–	1
08	F	5'–0"	7'–0"	1 3/4"	WD	PT	N/A	6	WD	PT	1/A5.1	2/A5.1	1/A5.1	7	A1
09	C	3'–0"	6'–8"	1 3/8"	WD	PT	N/A	3	WD	PT	7/A5.1	8/A5.1	7/A5.1	9	3

ABBREVIATIONS:

PT PAINT
N/A NOT APPLICABLE
HM HOLLOW METAL
AL ALUMINUM
WD SOLID WOOD
LMI LARGE MISSILE IMPACT RATED
CC STAIN & CLEAR COAT
TG TEMPERED GLASS–1/4"
WG WIRED GLASS–1/4"
FL FIRELITE–3/8"
MF MANUFACTURER'S STANDARD
ME MATCH EXISTING
FG FIBERGLASS

NOTE:
ALL EXTERIOR DOORS & WINDOWS TO BE LARGE MISSILE IMPACT RATED.

DOOR HARDWARE TYPES (HDWR)

TYPE A: MFG DOUBLE CYLINDER KEYED

TYPE A1: MFG SINGLE CYLINDER W/ THUMB TURN INSIDE. INTEGRAL HEAD & FOOT BOLTS ON OPPOSITE LEAF

TYPE 1: PASSAGE LATCH
BOTH LEVERS ALWAYS UNLOCKED.

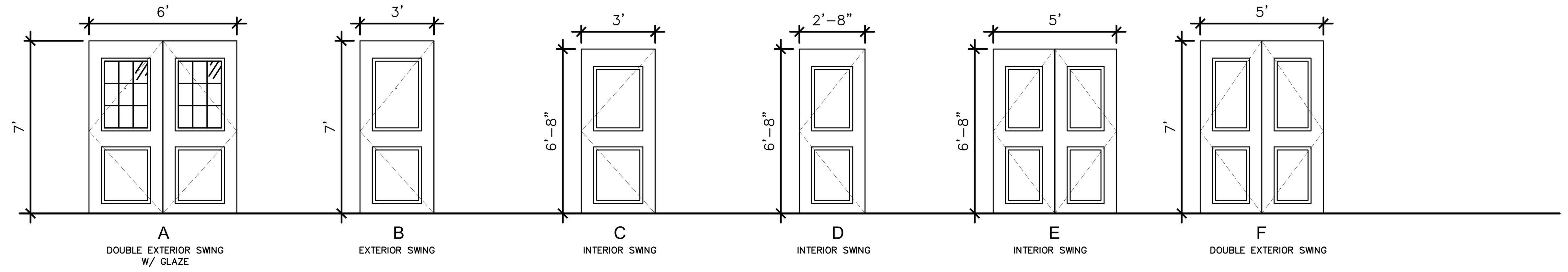
TYPE 2: BATH/BEDROOM PRIVACY LOCK
PUSH–BUTTON LOCKING. CAN BE OPENED FROM OUTSIDE WITH SMALL SCREWDRIVER. TURNING INSIDE KNOB RELEASES PUSH–BUTTON.

TYPE 3: CLASSROOM LOCK
OUTSIDE LOCKED & UNLOCKED BY KEY. INSIDE ALWAYS UNLOCKED.

TYPE 4: CODE LOCK
OUTSIDE LEVEL UNLOCKED BY KEYPAD. INSIDE ALWAYS UNLOCKED

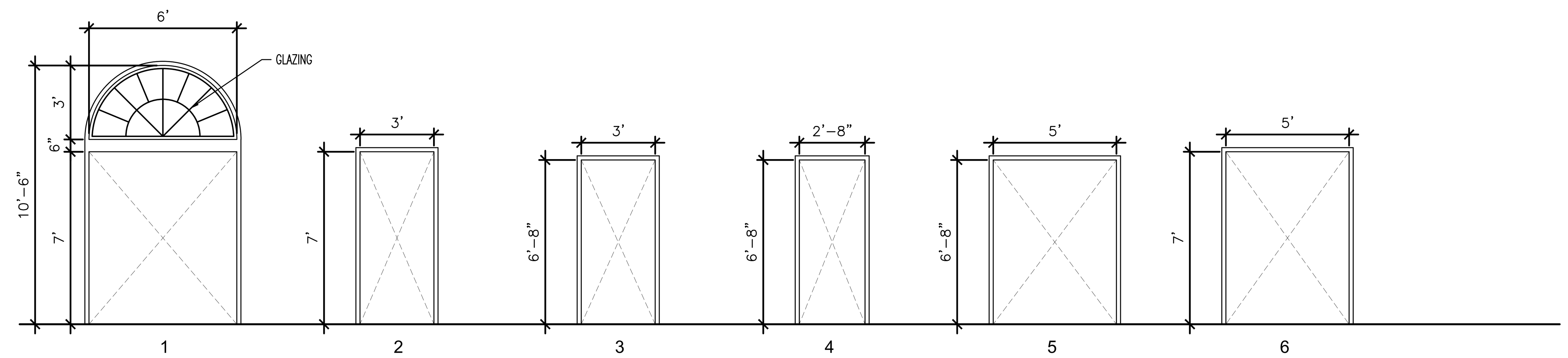
NOTES:

1. ALL HARDWARE TO MEET ADA & STATE ACCESSIBILITY STANDARDS.
2. ALL SIGNAGE SHALL COMPLY W/ STATE ADA STANDARDS.
3. ALL INTERIOR HARDWARE TBD EX. SCHLAGE AL SERIES NEPTUNE w/ 626 FINISH. CODE LOCKS TO BE KC 5000 SERIES.
4. PROVIDE WALL STOPS FOR ALL INTERIOR DOORS.
5. VENDOR TO SUBMIT HARDWARE LIST PER DOOR TO INCLUDE HINGES, CLOSERS, LEVER SETS, KICKPLATES, THRESHOLDS, WEATHER STRIPPING, AND DOOR BOTTOMS.
6. PULL DOWN ATTIC ACCESS WITH LADDER– COORDINATE WITH STRUCTURAL & MECHANICAL FOR REQUIRED CLEARANCES.
7. WHEN IN 2–HOUR FIRE RATED WALL, DOOR TO MEET OR EXCEED THE FIRE–RESISTANCE RATING REQUIRED FOR THE WALL, MINIMUM 90 MINUTES. REFERENCE 2023 FBC 716.5.
8. ALL NEW DOORS ARE TO MATCH DOORS OF EXISTING ADJACENT BUILDING.
9. INCLUDE TRANSOM WINDOW ABOVE EACH CLASSROOM DOOR AT CORRIDOR.



DOOR ELEVATIONS

1/4" = 1'–0"



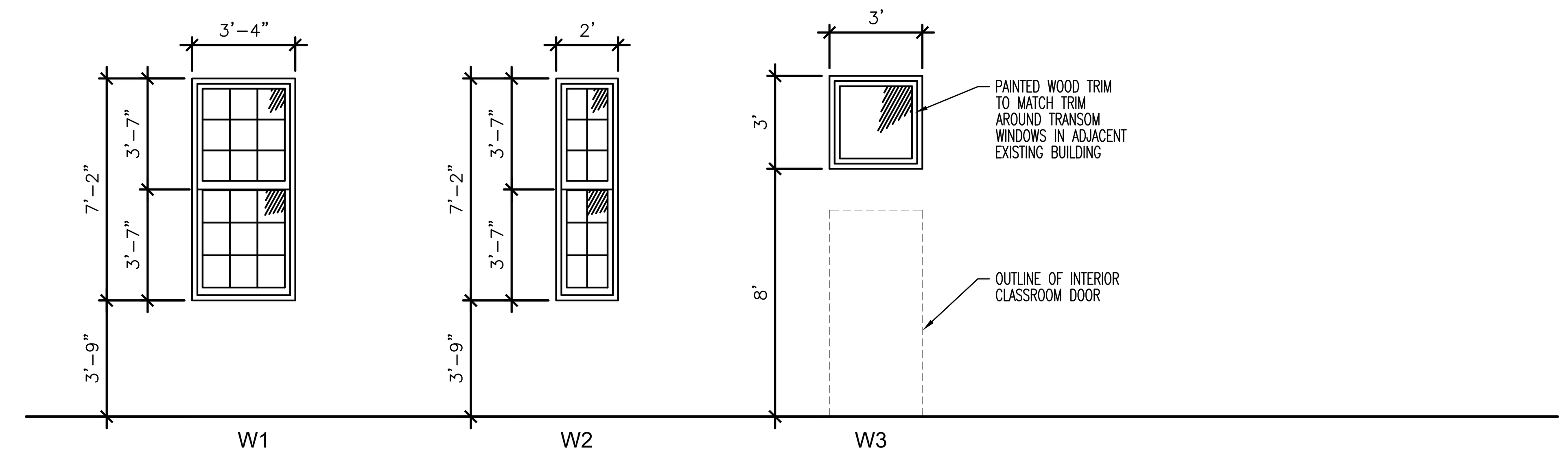
DOOR FRAME ELEVATIONS

1/4" = 1'–0"

WINDOW SCHEDULE

WINDOW NUMBER	SIZE	ELEV.	MTL.	GLAZING TYPE	GLAZING TEMP	FRAME MTL	FRAME FIN	FRAME HEAD	FRAME JAMB	FRAME SILL	TYPE	NOTES
A	3'–4" x 7'–2"	W1	WD	INSULATED	YES	WD	PT	1/A5.2	2&3/A5.2	1/A5.2	SH	
B	2'–0" x 7'–2"	W2	WD	INSULATED	YES	WD	PT	1/A5.2	2/A5.2	1/A5.2	SH	
C	3'–0" x 3'–0"	W3	WD	INSULATED	YES	WD	PT	4/A5.2	5/A5.2	4/A5.2	FX	

ABBREVIATIONS
MF MANUFACTURER'S FINISH
AL ALUMINUM
HM HOLLOW METAL
FX FIXED
WD WOOD



WINDOW ELEVATIONS

1/4" = 1'–0"

ROOM FINISH SCHEDULE

FIRST FLOOR

ROOM NUMBER	ROOM NAME	FLOOR MATL.	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING MATL.	CEILING HEIGHT	NOTES
101	CORRIDOR	WD	WD	PT1	PT1	PT1	PT1/PT2	SL	12'–0"	4
102	ADA RESTROOM	LVT	CTB	CT1	CT1	CT1	CT1	GYP.	10'–0"	1, 2
103A	SCIENCE CLASSROOM	LVT	WD	PT1	PT1	PT1	PT1	GYP.	12'–0"	
103B	SUPPLY CLOSET	LVT	WD	PT1	PT1	PT1	PT1	GYP.	12'–0"	
104	ADA RESTROOM	LVT	CTB	CT1	CT1	CT1	CT1	GYP.	10'–0"	1, 2
105A	SCIENCE CLASSROOM	LVT	WD	PT1	PT1	PT1	PT1	GYP.	12'–0"	
105B	SUPPLY CLOSET	LVT	WD	PT1	PT1	PT1	PT1	GYP.	12'–0"	
106	MECH	LVT	WD	PT1	PT1	PT1	PT1	GYP.	10'–0"	
107	MECH	LVT	WD	PT1	PT1	PT1	PT1	GYP.	10'–0"	
108	ADA RESTROOM	LVT	CTB	CT1	CT1	CT1	CT1	GYP.	10'–0"	1, 2
109A	TECHNOLOGY CLASSROOM	LVT	WD	PT1	PT1	PT1	PT1	GYP.	12'–0"	
109B	SUPPLY CLOSET	LVT	WD	PT1	PT1	PT1	PT1	GYP.	12'–0"	
110	JANITOR'S CLOSET	LVT	CTB	CT1	CT1	CT1	CT1	GYP.	10'–0"	3
111	ELEC./TECH.	LVT	WD	PT1	PT1	PT1	PT1	GYP.	10'–0"	
112A	LAB CLASSROOM	LVT	WD	PT1	PT1	PT1	PT1	GYP.	12'–0"	
112B	SUPPLY CLOSET	LVT	WD	PT1	PT1	PT1	PT1	GYP.	12'–0"	
113	MECH	LVT	WD	PT1	PT1	PT1	PT1	GYP.	10'–0"	
114	ENTRY PORCH	LVT	WD	EXT	EXT	EXT	EXT	GYP.	12'–0"	
115	MECH	LVT	WD	PT1	PT1	PT1	PT1	GYP.	10'–0"	
116	COVERED WALKWAY	CONC	N/A	EXT	EXT	EXT	EXT	AWN	11'–0"	

NOTES:

1. MOISTURE–RESISTANT GYPSUM BOARD AT ALL WET AREAS.
2. MOISTURE–RESISTANT PAINT AT ALL WET AREAS.
3. PROVIDE AND INSTALL MOP HOOK/SHELF UNIT IN CLOSET.
4. PT2 ON ART WALL OF CORRIDOR.

ABBREVIATIONS

FLOOR:
CONC SEALED CONCRETE
LVT LUXURY VINYL TILE IN INTERFACE NATURAL STONES A00106 BOTTICINO MARBLE
WD WOOD FLOOR IN CRESCENT HARDWOOD COLLECTION MARIGNY PLANK ACACIA PORT(SKU CHCMPP)

BASE:
N/A NOT APPLICABLE
WD WOOD BASE TO MATCH EXISTING BUILDING IN SW7756 HIGH REFLECTIVE WHITE
CTB CERAMIC TILE BASE

WALLS:
PT1 EGGSHELL LATEX PAINT (2 COATS) IN SW7006 EXTRA WHITE
PT2 EGGSHELL LATEX PAINT (2 COATS) IN SW6243 DISTANCE
EXT EXTERIOR–SEE A2.1 & A2.2
CT1 CERAMIC TILE IN TILEBAR DREAMSTONE DOLOMITE SNOW 12X24 RUNNING BOARD(MINIMUM GROUT TO CEILING)

CEILING MATERIAL:
GYP 5/8" GYPSUM BOARD (PAINTED PT3) IN SW7756 HIGH REFLECTIVE WHITE
SL SHIPLAP (PAINTED PT3) IN SW7756 HIGH REFLECTIVE WHITE
CT1 SUSPENDED 2X2 VINYL AC CEILING TILE
AWN ALUMINUM CANOPY

FINISH MATERIAL LEGEND

CABINET/MILLWORK:
MANUF: FORMICA 464–58
COLOR: GRAYSTONE MATTE

SOLID SURFACE COUNTERTOP:
MANUF: ARISTECH
COLOR: HONEY ONYX 8750

KINETIC MODULAR LAB STATIONS & FUME HOOD:
1. KINETIC PERIMETER WORKSTATION #2826K
2. MOBILE FUME HOOD STATION #1800K
3. TALL STORAGE W/GLASS DOORS #358–4822
4. GOOSENECK FAUCET #100467
www.diversifiedspaces.com
CONTACT: FREY GAEDE 1–800–524–9222

ART HANGING/SHELVING SYSTEM:
1. ARAKAWA HANGING SYSTEMS
www.arakawagrip.com
CONTACT: 1–888–272–5292

NOTES:

1. ALL FLOORS TO BE CLEANED BY G.C. PRIOR TO INSTALLATION OF ANY FURNISHINGS OR EQUIPMENT AND IMMEDIATELY FOLLOWING MOVE–IN.
2. VERIFY FLOOR COVERINGS AND/OR FLOOR TILE PATTERN W/ OWNERS REPRESENTATIVE.
3. ALL WALLS TO BE PAINTED W/ EGGSHELL FINISH.
ALL TRIM TO BE PAINTED W/ SEMI–GLOSS FINISH.
ALL GYPSUM BOARD CEILINGS TO BE PAINTED W/ FLAT FINISH.
(VERIFY COLORS W/ OWNER'S REPRESENTATIVE)
4. PROVIDE WOOD BLOCKING IN STUD WALLS FOR TOILET ACCESSORIES AND CABINETS.

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2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
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STATE OF FLORIDA VICTORIA C. WILLIAMS AR94000 REGISTERED ARCHITECT

Digitally signed by Victoria Williams
DN: cn=Victoria Williams, o=VBA Design, Inc., ou, email=vwilliams@vbadesign.us, c=US
Date: 2025.03.07 09:59:49 -06'00'

DATE 01-31-2025
DRAWN FL
REVIEWED VW
REVISIONS NO. DATE DESC.

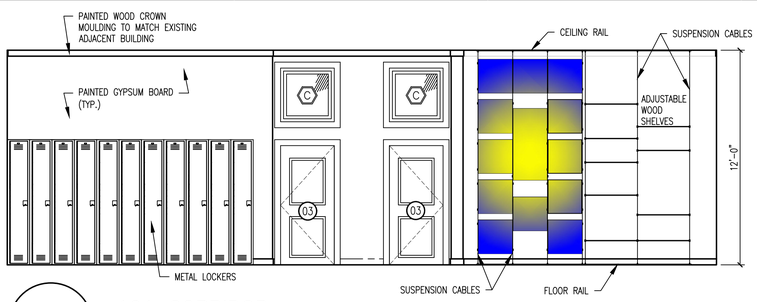
PROJECT # 2409

CONSTRUCTION DOCUMENTS

SCHEDULES

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

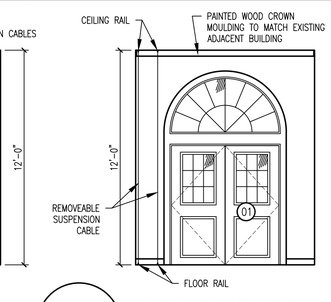
SHEET NO. A6.1



1 A1.1 A7.1 — 101 CORRIDOR

4' 2' 0' 4' 8'

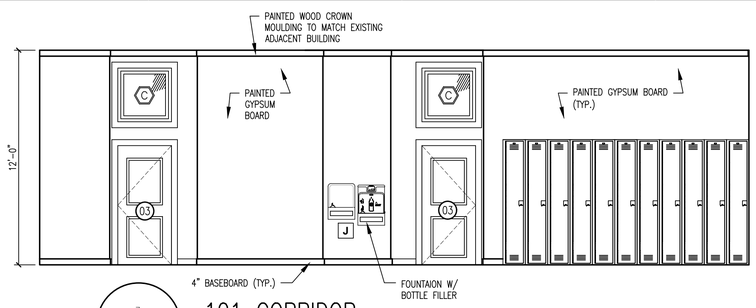
SCALE: 1/4" = 1'-0"



2 A1.1 A7.1 — 101 CORRIDOR

4' 2' 0' 4' 8'

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



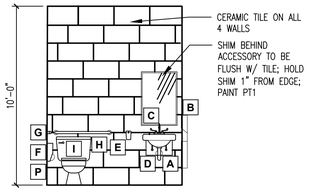
3 A1.1 A7.1 — 101 CORRIDOR

4' 2' 0' 4' 8'

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

NOTES

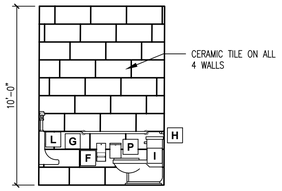
1. SEE MECHANICAL AND ELECTRICAL PLANS FOR LOCATION OF VENTS, SWITCHES, LIGHTS, ETC.
2. OWNER TO SELECT & CONTRACTOR TO SUPPLY AND INSTALL FIXTURES AND APPLIANCES.
3. UNLESS OTHERWISE NOTED ON ELECTRICAL PLANS, OVER-CABINET OUTLETS TO BE MOUNTED HORIZONTALLY 2" ABOVE COUNTER.
4. UNLESS OTHERWISE NOTED ON ELECTRICAL PLANS, TOGGLE SWITCHES TO BE MOUNTED AT 48" A.F.F.
5. SMART BOARD TO BE VIEWSONIC IFP8650 OR SIMILAR.



4 A1.1 A7.1 — 102 UNISEX ADA RESTROOM

4' 2' 0' 4' 8'

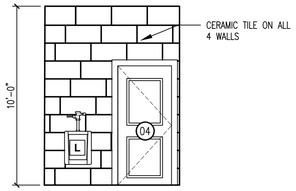
SCALE: 1/4" = 1'-0"



5 A1.1 A7.1 — 102 UNISEX ADA RESTROOM

4' 2' 0' 4' 8'

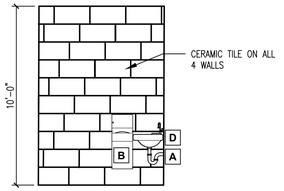
SCALE: 1/4" = 1'-0"



6 A1.1 A7.1 — 102 UNISEX ADA RESTROOM

4' 2' 0' 4' 8'

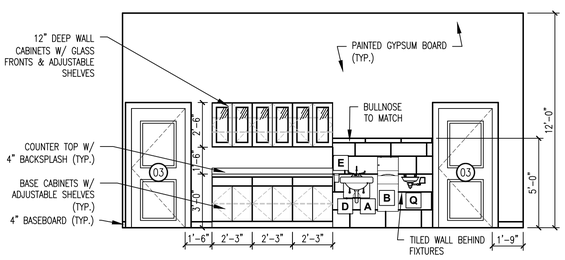
SCALE: 1/4" = 1'-0"



7 A1.1 A7.1 — 102 UNISEX ADA RESTROOM

4' 2' 0' 4' 8'

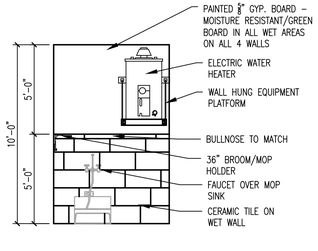
SCALE: 1/4" = 1'-0"



8 A1.1 A7.1 — 103A SCIENCE CLASSROOM

4' 2' 0' 4' 8'

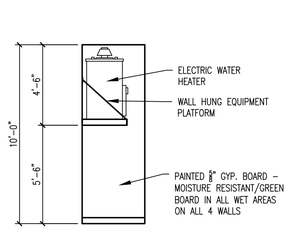
SCALE: 1/4" = 1'-0"



9 A1.1 A7.1 — 110 JANITOR

4' 2' 0' 4' 8'

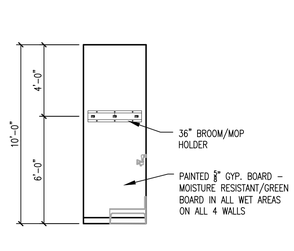
SCALE: 1/4" = 1'-0"



10 A1.1 A7.1 — 110 JANITOR

4' 2' 0' 4' 8'

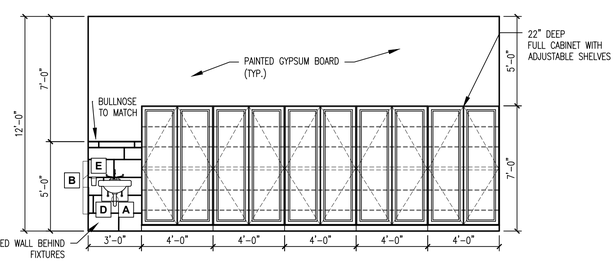
SCALE: 1/4" = 1'-0"



11 A1.1 A7.1 — 110 JANITOR

4' 2' 0' 4' 8'

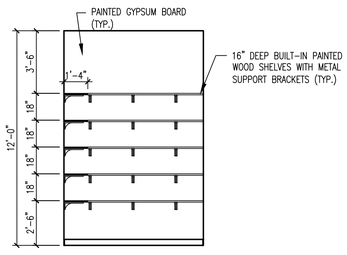
SCALE: 1/4" = 1'-0"



12 A1.1 A7.1 — 109A TECHNOLOGY CLASSROOM

4' 2' 0' 4' 8'

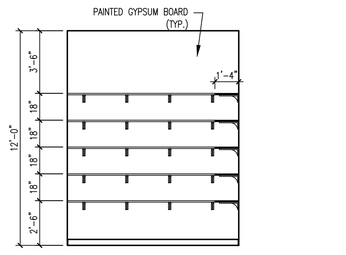
SCALE: 1/4" = 1'-0"



13 A1.1 A7.1 — 105B SCIENCE CLASSROOM

4' 2' 0' 4' 8'

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



14 A1.1 A7.1 — 105B SCIENCE CLASSROOM

4' 2' 0' 4' 8'

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

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PHONE: 850 769 3357
FAX: 850 763 0410

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ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
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DRAWN	REVIEWED
FL	VW

REVISIONS

NO.	DATE	DESC.

PROJECT # 2409

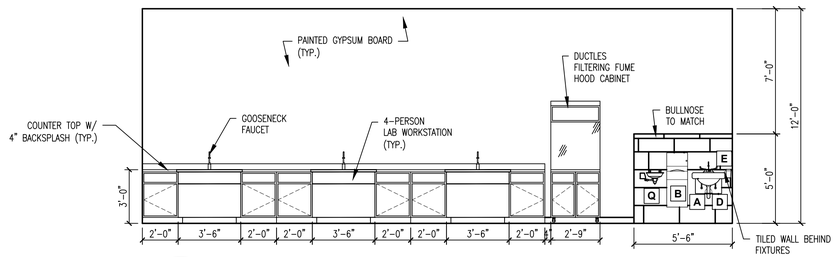
CONSTRUCTION DOCUMENTS

INTERIOR ELEVATIONS

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE

PANAMA CITY, FLORIDA

SHEET NO. A7.1

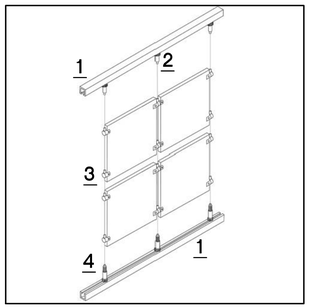


1
A1.1 A7.2

112A TECHNOLOGY CLASSROOM

4' 2' 0' 4' 8'

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



Ceiling and Floor Rail

CRB railing for ceilings and floors is shown here suspending art panels with the BRG1 and BRG2 rotating midway grippers. BS1R rail clips and BS23BRSET rail tensioners allow art panels to move anywhere along the path of the rail to hang multiple sizes of art panels in multiple configurations.

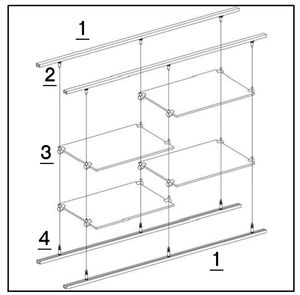
1. CRB Rail (CRB/CRC 1800-A)
2. BS1R
3. BRG1/BRG2
4. BS23BRSET

2
A7.1 A7.2

101 ARAKAWA ART PANEL HANGING DETAIL

4' 2' 0' 4' 8'

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



Ceiling and Floor Railing

CRB and CRC rails, which can be installed on both ceilings and floor, allows for endless possibilities for your shelving configurations. Midway grippers such as the FSG1, shown here, provide a simple and economical way to hang shelving with a thickness of 3/8" or less.

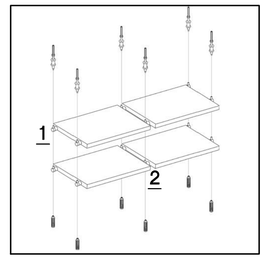
1. CRB Rail (CRB/CRC 1800-A)
2. BS1R
3. FSG1
4. BS23BRSET

3
A7.1 A7.2

101 ARAKAWA SHELVING HANGING DETAIL

4' 2' 0' 4' 8'

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



Alternate Shelving Connectors

1. FRB1SS
2. FRB2SS

The FRB1SS and FRB2SS are rotating grippers that attach to the edges of wood shelving. The rotation allows for the shelving panels to be hung vertically, horizontally, or angled at a diagonal.

NOTES

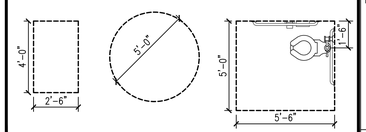
1. SEE MECHANICAL AND ELECTRICAL PLANS FOR LOCATION OF VENTS, SWITCHES, LIGHTS, ETC.
2. OWNER TO SELECT & CONTRACTOR TO SUPPLY AND INSTALL FIXTURES AND APPLIANCES.
3. OWNER TO SELECT & CONTRACTOR TO SUPPLY AND INSTALL CABINETS AND COUNTERS.
4. UNLESS OTHERWISE NOTED ON ELECTRICAL PLANS, OVER-CABINET OUTLETS TO BE MOUNTED HORIZONTALLY 2" ABOVE COUNTER.
5. UNLESS OTHERWISE NOTED ON ELECTRICAL PLANS, TOGGLE SWITCHES TO BE MOUNTED AT 48" A.F.F.
6. SMART BOARD TO BE VIEWSONIC IFP8650 OR SIMILAR.

LEGEND

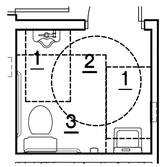
A	LAVATORY PIPE INSULATOR
B	RECESSED HAND TOWEL DISPENSER AND TRASH RECEPTACLE
C	24"X36" MIRROR
D	LAVATORY (ACCESSIBLE): WALL-MOUNT WITH PIPE APRON
E	SURFACE MOUNTED SOAP DISPENSER
F	SURFACE MOUNTED DUAL ROLL TOILET PAPER DISPENSER.
G	1½" Ø 42" LONG GRAB BAR.
H	1½" Ø 36" LONG GRAB BAR.
I	WATER CLOSET (ACCESSIBLE): FLOOR MOUNTED
J	ELECTRIC WATER FOUNTAIN (ACCESSIBLE & STANDARD)
K	NOT USED
L	WALL MOUNTED URINAL
M	NOT USED
N	NOT USED
O	NOT USED
P	FEMANINE NAPKIN DISPOSAL
Q	EYE WASH SINK

ACCESSIBILITY CLEARANCE LEGEND

1. CLEAR FLOOR SPACE CENTERED ON FIXTURE OR APPLIANCE
2. 5'-0" TURNING RADIUS
3. CLEAR FLOOR SPACE REQUIRED AT WATER CLOSET



1 2 3

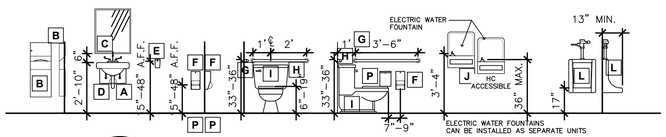


4
A1.1 A7.2

CLEAR FLOOR DIMENSIONS

4' 2' 0' 4' 8'

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



5
A7.2 A7.2

ADA RESTROOM REQUIREMENTS

4' 2' 0' 4' 8'

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

SPECIFICATIONS FOR ACCESSIBLE WATER CLOSETS SERVING ADULTS		
	WHEELCHAIR ACCESSIBLE	AMBULATORY ACCESSIBLE
WATER CLOSET CENTERLINE	16-18 in. (405-455 mm)	17-19 in. (430-485 mm)
TOILET SEAT HEIGHT	17-19 in. (430-485 mm)	
WATER CLOSET CLEARANCE (WIDTHxDEPTH)	60 in. x 56 in. (1525x1420 mm)	
GRAB BAR HEIGHT	33-36 in. (840-915 mm)	
SIDE GRAB BAR (LENGTH, DISTANCE FROM REAR WALL)	42 in. (1065 mm) LONG, 12 in. (305 mm) FROM REAR WALL	
REAR GRAB BAR (LENGTH, DISTANCE FROM W.C. CENTERLINE TO WALL SIDE)	36 in. (915 mm) LONG, 12 in. (305 mm) FROM W.C. CENTERLINE TO WALL SIDE	
DISPENSER HEIGHT	15-48 in. (380-1220 mm)	
TOILET PAPER DISPENSER CENTERLINE IN FRONT OF WATER CLOSET	7-9 in. (180-230 mm)	
LAVATORY HEIGHT-RIM/COUNTER A.F.F.	34 in. (865 mm)	
LAVATORY CLEARANCE (WIDTHxDEPTH)	30 in. x 48 in. (760x1220 mm)	

ADVISORY SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12			
	AGES 3 & 4	AGES 5 THROUGH 8	AGES 9 THROUGH 12
WATER CLOSET CENTERLINE	12 in. (305 mm)	12-15 in. (305-380 mm)	15-18 in. (380-455 mm)
TOILET SEAT HEIGHT	11-12 in. (280-305 mm)	12-15 in. (305-380 mm)	15-17 in. (380-430 mm)
GRAB BAR HEIGHT	18-20 in. (455-510 mm)	20-25 in. (510-635 mm)	25-27 in. (635-685 mm)
DISPENSER HEIGHT	14 in. (355 mm)	14-17 in. (355-430 mm)	17-19 in. (430-485 mm)

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PHONE: 850 769 3357
FAX: 850 763 0410

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ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
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Digitally signed by Victoria Williams
DN: cn=Victoria Williams, o=VBA Design, Inc., ou, email=vwilliams@vbadesign.us, c=US
Date: 2025.03.07 10:02:01 -06'00'

DATE 01-31-2025
DRAWN FL REVIEWED VW

REVISIONS NO.	DATE	DESC.

PROJECT # 2409

CONSTRUCTION DOCUMENTS
INTERIOR ELEVATIONS

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. A7.2

GENERAL NOTES:

DISCLAIMER:

1. THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM MATERIAL REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATIONS AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL. IT IS THE CONTRACTOR RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR ERECTION.

2. AT CONSTRUCTION ISSUE, THESE DRAWINGS REPRESENT STRUCTURAL COMPONENTS IN THEIR FINAL AND FINISHED STATE. CONSTRUCTION PROCEDURES, BRACING METHODS, SAFETY PRECAUTIONS OR MECHANICAL REQUIREMENTS USED TO ERECT THEM ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR SUBCONTRACTOR PERFORMING THE WORK.

BUILDING DESIGN CRITERIA:

A. CODES

2023 FLORIDA BUILDING CODE
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)
BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 531)
ASCE 7–22

B. DESIGN LOADS

ROOF DEAD LOAD	18 PSF
ROOF LIVE LOAD	20 PSF – REDUCIBLE

C. WIND LOADS PER ASCE 7–22 & 2023 FBC
RISK CATEGORY II
WIND SPEED, V = 140 MPH
EXPOSURE CATEGORY = C
MEAN ROOF HEIGHT, h = ±21.5 FEET
TOPOGRAPHIC FACTOR, K_{zt} = 1.00
a = ±5.9 FEET
ROOF PITCH = ±7/12
ROOF SLOPE, θ = 30.3°

COMPONENTS AND CLADDING DESIGN PRESSURES
(ALLOWABLE STRESS DESIGN)
REFERENCE: CHAPTER 30 OF ASCE 7–22

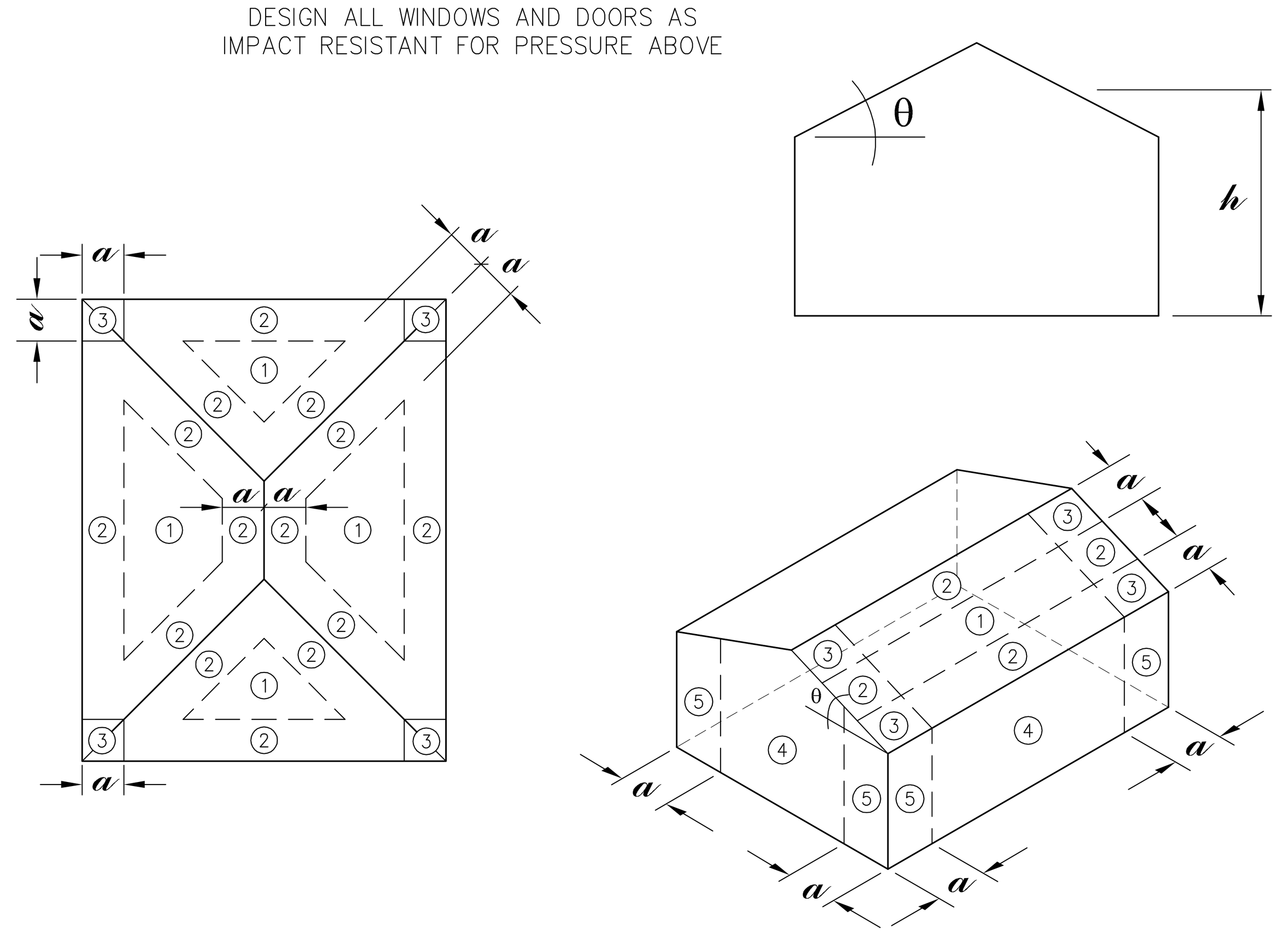
ZONE		TRIB. AREA	COMPONENT PRESSURE POSITIVE (+)	NEGATIVE (–)
ROOF	1	10	+25.3	–46.4
		20	+23.1	–39.4
		50	+20.3	–30.0
		100	+18.1	–23.0
		200	+15.9	–23.0
	2	10	+25.3	–51.1
		20	+23.1	–45.7
		50	+20.3	–38.5
		100	+18.1	–33.1
		200	+15.9	–27.7
	3	10	+25.3	–62.8
		20	+23.1	–54.7
		50	+20.3	–43.9
		100	+18.1	–35.8
		200	+15.9	–27.7
WALL	4	10	+27.7	–30.0
		20	+26.4	–28.8
		50	+24.8	–27.1
		100	+23.5	–25.9
		200	+22.3	–24.6
	5	10	+27.7	–37.0
		20	+26.4	–34.5
		50	+24.8	–31.3
		100	+23.5	–28.8
		200	+22.3	–26.3

REFERENCE FIGURES BELOW:

DESIGN ALL WINDOWS AND DOORS AS IMPACT RESISTANT FOR PRESSURE ABOVE

DESIGN WIND LOAD NOTES:

♦	ULTIMATE WIND SPEED, V_{ult}, WAS DETERMINED THE ASCE HAZARD TOOL WEBSITE.
*	REFERENCE SECTION 1609.3.1 AND/ OR TABLE 1609.3.1 OF THE 2023 FLORIDA BUILDING CODE FOR CONVERSION OF V_{ult} TO V_{asd}.
**	SHOWN IN THIS TABLE ARE NET DESIGN WIND PRESSURES, p_{net}, DETERMINED PER SECTION 30.5.2 OF ASCE 7–22. THESE PRESSURES ARE BASED ON ASD WIND SPEED, V_{asd}, PER FIGURE 26.5–1A AND SHALL BE APPLIED NORMAL TO EACH BUILDING SURFACE AS SHOWN IN FIGURE 30.5–1.
***	MINIMUM NET DESIGN WIND PRESSURE PER ASCE 7–22 SECTION 30.2.2.



LUMBER:

1. UNLESS NOTED OTHERWISE, ALL LUMBER SHALL BE #2 KD SOUTHERN YELLOW PINE OR #2 SPRUCE–PINE–FIR WITH A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
2. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED. ALL LUMBER EXPOSED TO EXTERIOR ENVIRONMENT SHALL BE PRESSURE TREATED.
3. EXTERIOR LOAD–BEARING STUD FRAMING SHALL BE NO. 2 SYP OR SPF: Fb=1000 PSI, E=1400 KSI.
4. INTERIOR LOAD–BEARING STUD FRAMING SHALL BE NO. 2 SYP OR SPF, SIZE SHOWN ON PLANS: Fb=1000 PSI, E=1400 KSI.
5. ROOF DECK SHALL BE MINIMUM ⅝" EXTERIOR GRADE PLYWOOD ATTACHED WITH 8d RING SHANK NAILS AS SHOWN ON ATTACHMENT DETAILS.
6. INSTALL SIMPSON PSC CLIPS OR USP MODEL PC SHEATHING CLIPS AT ALL UNSUPPORTED EDGES OF ROOF DECK (ONE PER SPAN).
7. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALL SHEATHING TO BE ½" PLYWOOD ATTACHED DIRECTLY TO WALL FRAMING MEMBERS. BLOCK ALL PANEL EDGES AND NAIL WITH 8d COMMON NAILS @ 4"o.c. AT ALL PANEL EDGES, BLOCKING, AND TOP & BOTTOM PLATES WITH FIELD NAILING @ 6"o.c.
8. ALL PLYWOOD PANELS SHALL BE INSTALLED IN ACCORDANCE WITH APA RECOMMENDATIONS AND RELATED SPECIFICATIONS. ORIENTED STRAND BOARD "OSB" MAY BE SUBSTITUTED FOR PLYWOOD WHERE APPROVED BY THE ARCHITECT/ENGINEER AND PROVIDED THE PANEL CONFORM TO THE APPROPRIATE APA RAINS FOR THE INTENDED APPLICATION.
9. PROVIDE A MINIMUM OF 2 STUDS NAILED TOGETHER BENEATH ALL HEADERS UNLESS NOTED OTHERWISE. USE AT LEAST 2–2x10 HEADER FOR ALL OPENINGS UP TO 4'–0" WIDE IN BEARING WALLS. USE AT LEAST 3–2x10 HEADER FOR ALL OPENINGS UP TO 8'–0" WIDE IN BEARING WALLS.
10. ALL MULTIPLE PIECE WOOD BEAMS SHALL BE CONNECTED TOGETHER WITH MINIMUM TWO ROWS OF 16d NAILS @ 12"o.c. (U.N.O.).
11. AS A MINIMUM, ANCHOR AND NAIL FRAMING SHALL COMPLY WITH "TABLE R602.3.(1) – FASTENING SCHEDULE" OF THE 2023 FLORIDA BUILDING CODE.
12. ALL BOLTS, NAILS, JOIST HANGERS, CLIPS, STRAPS, ETC THAT ARE IN CONTACT WITH PRESSURE TREATED MATERIAL SHALL BE HOT–DIPPED GALVANIZED OR STAINLESS STEEL.
13. ALL CONNECTORS AND HARDWARE SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER RECOMMENDATIONS. SIZE, QUANTITY, AND LOCATION OF NAILS AND FASTENERS SHALL CONFORM TO THE MANUFACTURERS PUBLISHED LITERATURE.
14. LVL BEAM SHALL BE 2950 Fb–2.0E AS MANUFACTURED.
15. TREATED GLULAMS TO BE MINIMUM 2400 PSI Fb & 1.8E MINIMUM
16. TREATED PSL BEAMS TO BE MINIMUM 1885 PSI Fb, 1.49E, & SERVICE LEVEL 2 TREATMENT MINIMUM.
17. ALL EXTERIOR LVL'S TO BE WRAPPED & PROTECTED FROM THE WEATHER OR USE TREATED GLULAMS OR PSL'S.
18. ROOF SHINGLES TO BE HIGH WIND CLASS "H" WITH A MINIMUM OF 6 FASTENERS EACH.

FOUNDATION:

1. NO SOILS REPORT HAS BEEN PREPARED FOR THIS PROJECT, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE SOIL SUPPORT FOR THE FOUNDATION DESIGN, AND SHALL REPORT UNEXPECTED CONDITIONS TO THE DESIGNER.
2. ALL FOOTINGS, OR PORTIONS THEREOF, BELOW GRADE MAY BE EARTH FORMED BY NEAT EXCAVATIONS.
3. FOOTINGS TO BE CENTERED ON WALLS OR COLUMN UNLESS NOTED OTHERWISE.
4. ALLOWABLE SOIL BEARING = 1500 PSF
5. COMPACT ALL SOILS BELOW SLAB AND FOOTINGS 95% STANDARD PROCTOR DENSITY.
6. ALL SOIL FILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

WOOD ROOF TRUSSES & SPECIALTY WOOD PRODUCTS:

1. WOOD TRUSSES AS INDICATED ON THE PLANS SHALL BE DESIGNED TO MEET THE SPANS AND DESIGN INDICATED ON THESE DRAWINGS. STORAGE ERECTION AND BRACING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS PUBLISHED DRAWINGS AND INSTALLATION RECOMMENDATIONS. MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS AS NECESSARY FOR A COMPLETE INSTALLATION OF THE TRUSSES.
2. ALL HIGH PERFORMANCE SPECIALTY MEMBERS AS INDICATED ON THE PLANS SHALL BE FROM THE TRUSS MANUFACTURER. "LVL" MEMBERS SHALL BE LAMINATED VENEER LUMBER MEMBERS; "PSL" MEMBERS SHALL BE PARALLEL STRAND LUMBER MEMBERS; "LSL" MEMBERS SHALL BE TIMBERSTRAND LAMINATED AND PRESSED MEMBERS. ALL MEMBERS SHALL BE ONE CONTINUOUS PIECE OF SIZE INDICATED ON THE DRAWINGS. ALL ADHESIVES USED TO MANUFACTURE SPECIALTY PRODUCTS SHALL BE WATERPROOF.
3. SHOP DRAWINGS SHALL BE PREPARED FOR THE TRUSS ROOF SYSTEM. SHOP DRAWINGS SHALL INCLUDE FRAMING LAYOUT, INSTALLATION DETAILS, AND RELATED REQUIREMENTS. DRAWINGS SHALL BE SUBMITTED FOR REVIEW. MATERIAL SHOULD NOT BE FABRICATED UNTIL SUBMITTED ITEMS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT/ENGINEER.
4. ALTERNATE PRODUCTS BY OTHER MANUFACTURERS WITH COMPARABLE DESIGN PROPERTIES MAY BE SUBMITTED FOR REVIEW BY THE ENGINEER. ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER/ ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS.

STEEL:

1. STRUCTURAL STEEL SHALL MEET THE LATEST AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. ALL STRUCTURAL STEEL TO MEET ASTM A992– f'y = 50ksi. ALL TUBING TO MEET ASTM A500, GRADE B – f'y = 46ksi.
3. WELDING SHALL CONFORM TO THE STANDARDS SET FORTH IN AWS PUBLICATION "WELDING IN BUILDING CONSTRUCTION".
4. ALL SHOP CONNECTIONS TO HAVE 3/16" FILLET WELDS MINIMUM UNLESS NOTED AS BOLTED CONNECTIONS.
5. ALL FIELD WELDS TO BE WITH E70XX ELECTRODES.
6. ALL ERECTION DRAWINGS SHALL SHOW ALL FIELD WELDS REQUIRED.
7. STRUCTURAL STEEL SHALL HAVE SP3 GRADE "POWER TOOL" CLEANING IN ACCORDANCE WITH THE STRUCTURAL STEEL PAINTING COUNCIL.
8. STRUCTURAL STEEL SHALL HAVE ONE COAT OF PRIMER EXCEPT THOSE MEMBERS THAT ARE GALVANIZED.
9. THE STEEL FRAME IS "NON–SELF SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.
10. ANCHOR BOLTS SHALL NOT BE MODIFIED UNLESS APPROVED BY ENGINEER.

MASONRY:

1. HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C–90 LIGHTWEIGHT, TYPE N–1 WITH A MINIMUM COMPRESSIVE STRENGTH f'm = 1500 PSI.
2. ALL MORTAR FOR USE IN MASONRY SHALL CONFORM TO ASTM C–270, TYPE M OR S. GROUT USED IN MASONRY SHALL BE MINIMUM 2500 PSI AND CONFORM TO ASTM C–476. MINIMUM 8 SACK MIX.
3. REINFORCING BARS TO BE GRADE 60 AND MEET ASTM A–615.
4. GROUT FILL ALL CELLS BELOW GRADE.
5. LAY ALL MASONRY IN A RUNNING BOND PATTERN.
6. PROVIDE #9 TRUSS TYPE JOINT REINFORCEMENT AT 16"o.c. FOR TYPICAL HORIZONTAL REINFORCING.
7. PROVIDE #9 TRUSS TYPE JOINT REINFORCEMENT AT 8"o.c. FOR TYPICAL HORIZONTAL REINFORCING AT PARAPET WALLS.
8. PROVIDE A MINIMUM OF 1" GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.

CONCRETE WORK:

1. CONCRETE (NORMAL WEIGHT) COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE REF. SCHEDULE BELOW

LOCATION	COMPRESSION STRENGTH
FOUNDATION	3000 psi
SLAB ON GRADE	3500 psi
ELEVATED SLAB	4000 psi
WALLS	4000 psi

2. ALL REINFORCING SHALL MEET ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC (WWF) SHALL MEET ASTM A185.
3. CONCRETE COVERAGE OF REINFORCEMENT SHALL BE:

FOOTINGS	3" BOTTOM AND SIDES
WALLS	1½"
SLABS	¾"
PEDESTALS	1½" CLEAR OF TIES

4. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PLACEMENT".
5. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150, TYPE I OR II.
6. ALL AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C 33.
7. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED PER CRSI AND ACI STANDARDS, INCLUDING CONCRETE COVER AND BAR SUPPORTS. LAP BARS AT ALL SPLICES, INCLUDING CORNER BARS AND DOWELS, IN ACCORDANCE WITH SPLICE SCHEDULE OR IN LIEU THEREOF 40 BAR DIAMETERS. LAP WWF 6" OR ONE FULL MESH, WHICHEVER IS GREATER.

WIND BORNE DEBRIS PROTECTION FOR EXTERIOR WINDOWS FBC 2023:

1. WINDOWS TO BE DESIGNED FOR A DESIGN WIND PRESSURE OF ±30 PSF (ASD), REFERENCE CHART.
2. THE CONTRACTOR MUST USE IMPACT RESISTANT WINDOWS PER ASTM E–1886 & E–1996

STRUCTURAL DRAWING INDEX:

BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

STRUCTURAL NOTES
NEW STREAM BUIDLDING

LOCATION:
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

RUSSELL S. BARTON
LICENSE
12-19-24
No. 63599
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FOR PERMIT

REVISIONS:

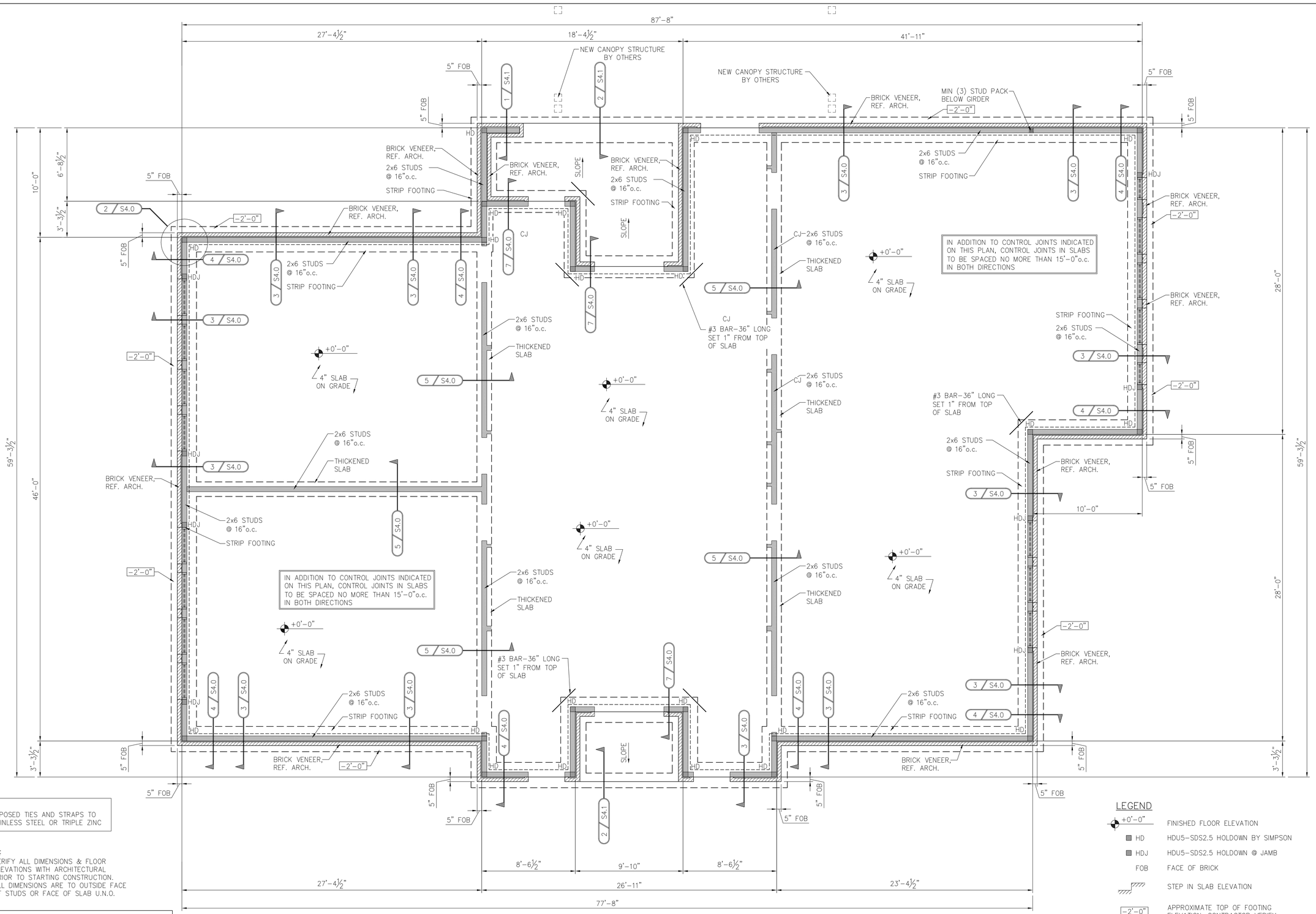
DRAWN BY: KEP

DESIGNED BY: MKS

DATE: 19 DEC 2024

24149

SHEET S0.0



NOTE:
ALL EXPOSED TIES AND STRAPS TO BE STAINLESS STEEL OR TRIPLE ZINC

NOTES:
1. VERIFY ALL DIMENSIONS & FLOOR ELEVATIONS WITH ARCHITECTURAL PRIOR TO STARTING CONSTRUCTION.
2. ALL DIMENSIONS ARE TO OUTSIDE FACE OF STUDS OR FACE OF SLAB U.N.O.

SLAB-ON-GRADE CONSTRUCTION

4" CONCRETE SLAB REINFORCED WITH 6x6-W1.4xW1.4 WWF FLAT SHEETS PLACED ON BRICKS/CHAIRS. PLACE OVER VAPOR BARRIER AND COMPACTED STRUCTURAL FILL MATERIAL. FILL TO BE PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

FOUNDATION PLAN

SCALE: 1/4"=1'-0"
FINISH FLOOR = +0'-0" U.N.O. (CIVIL FINISH FLOOR = 30.11')

IN ADDITION TO CONTROL JOINTS INDICATED ON THIS PLAN, CONTROL JOINTS IN SLABS TO BE SPACED NO MORE THAN 15'-0"o.c. IN BOTH DIRECTIONS

LEGEND

+0'-0"	FINISHED FLOOR ELEVATION
HD	HDU5-SDS2.5 HOLDOWN BY SIMPSON
HDJ	HDU5-SDS2.5 HOLDOWN @ JAMB
FOB	FACE OF BRICK
	STEP IN SLAB ELEVATION
-2'-0"	APPROXIMATE TOP OF FOOTING ELEVATION, CONTRACTOR VERIFY

SCALE: 1/4" = 1'-0"
4' 2' 0 2' 4' 8'

BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

FOUNDATION PLAN
NEW STREAM BUILDING
LOCATION:
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

RUSSELL S. BARTON LICENSE No. 63599 STATE OF FLORIDA PROFESSIONAL ENGINEER
FOR PERMIT

REVISIONS:

DRAWN BY: KEP
DESIGNED BY: MKS
DATE: 19 DEC 2024
SHEET: S1.0
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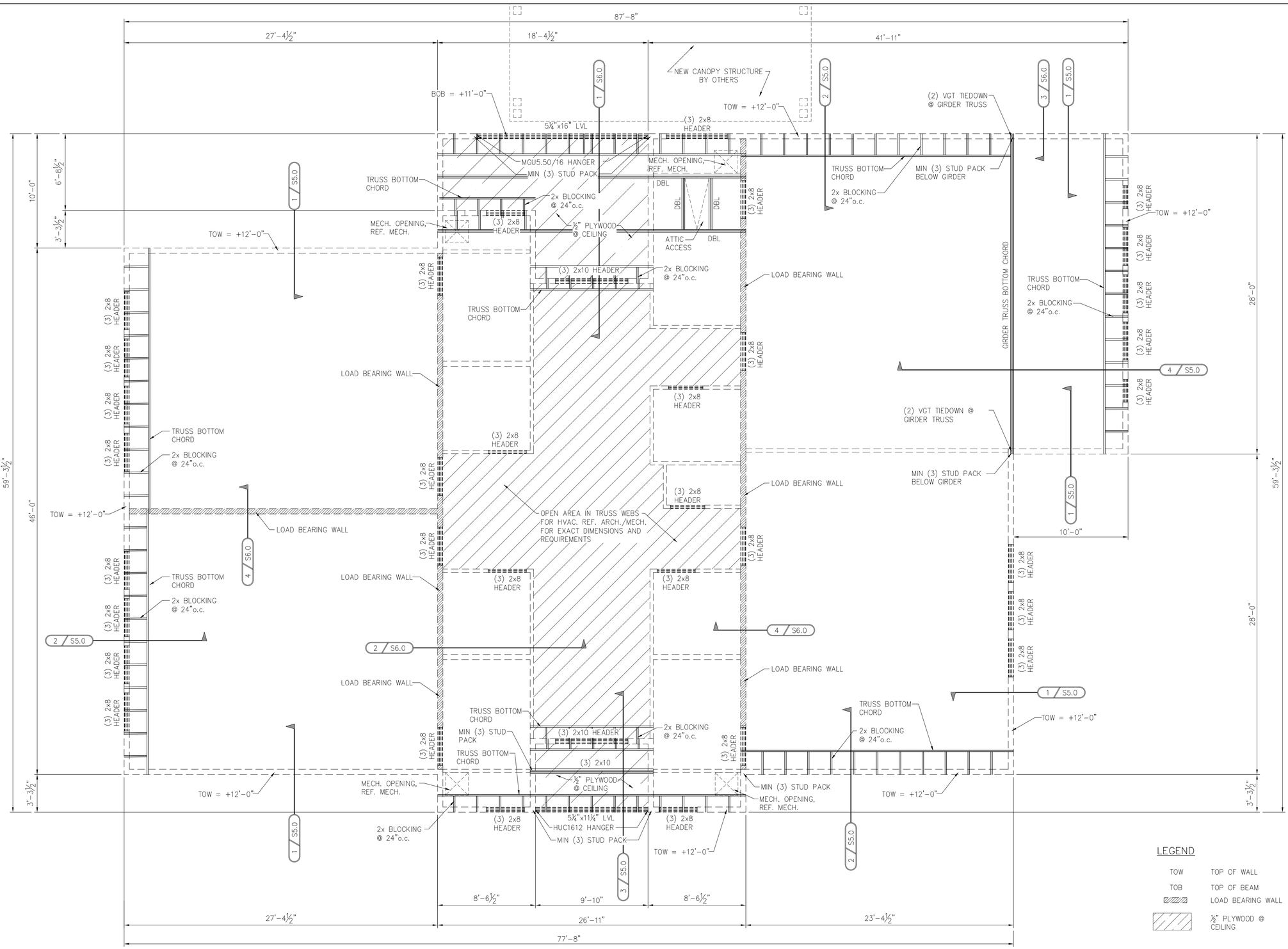

NOTE:
ALL EXPOSED TIES AND STRAPS TO BE STAINLESS STEEL OR TRIPLE ZINC

CEILING FRAMING PLAN

SCALE: 1/4"=1'-0"
TOP OF WALL = +12'-0" U.N.O. = TRUSS BEARING

LEGEND

TOW	TOP OF WALL
TOB	TOP OF BEAM
	LOAD BEARING WALL
	½" PLYWOOD @ CEILING

SCALE: 1/4" = 1'-0"
4' 2' 0 2' 4' 8'

BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

CEILING FRAMING PLAN
NEW STREAM BUILDING

LOCATION:
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

RUSSELL S. BARTON LICENSED No. 63599 STATE OF FLORIDA PROFESSIONAL ENGINEER
FOR PERMIT

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DRAWN BY: KEP
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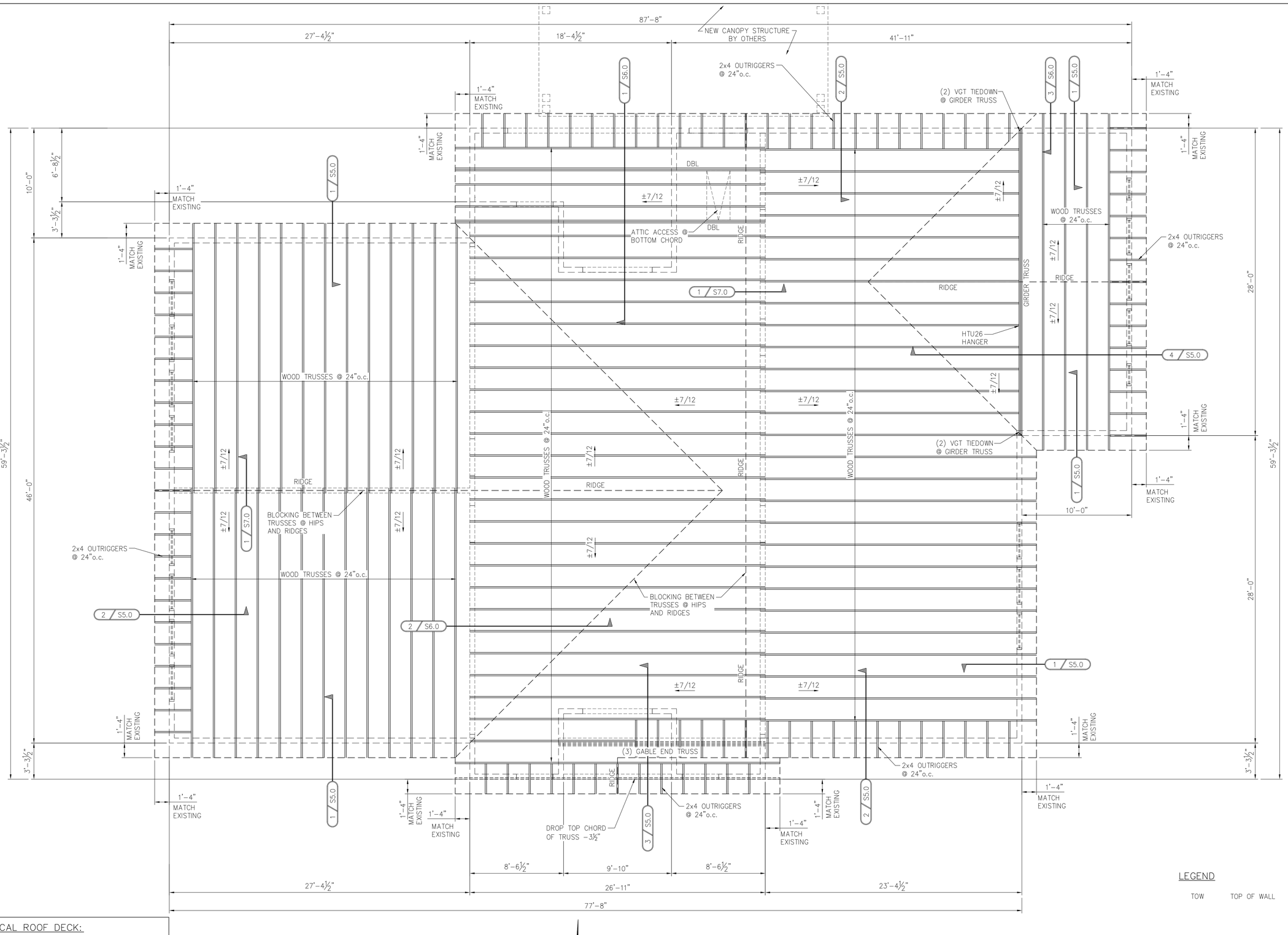

TYPICAL ROOF DECK:

⅝" EXT. GRADE PLYWOOD. ATTACH W/ 8d RING SHANK NAILS AS SHOWN ON ROOF FRAMING DETAIL.

ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"
TOP OF WALL = +12'-0" U.N.O. = TRUSS BEARING

LEGEND

TOW TOP OF WALL

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

4' 2' 0 2' 4' 8'

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3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

ROOF FRAMING PLAN
NEW STREAM BUILDING

LOCATION:
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

RUSSELL S. BARTON
LICENSE
No. 63599
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FOR PERMIT

REVISIONS:

DRAWN BY: KEP
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DATE: 19 DEC 2024
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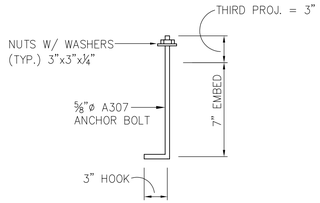
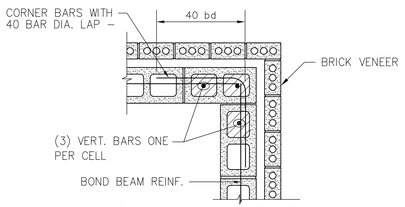


TYPICAL ANCHOR BOLTS

DETAIL 1 / S4.0

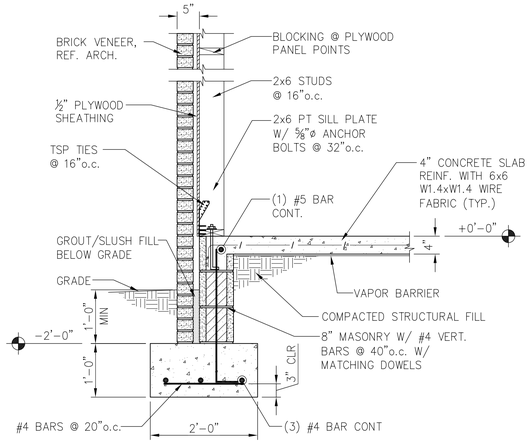
NOT TO SCALE



TYPICAL CMU CORNER REINF.

DETAIL 2 / S4.0

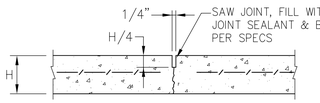
NOT TO SCALE



EXTERIOR WALL

SECTION 3 / S4.0

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



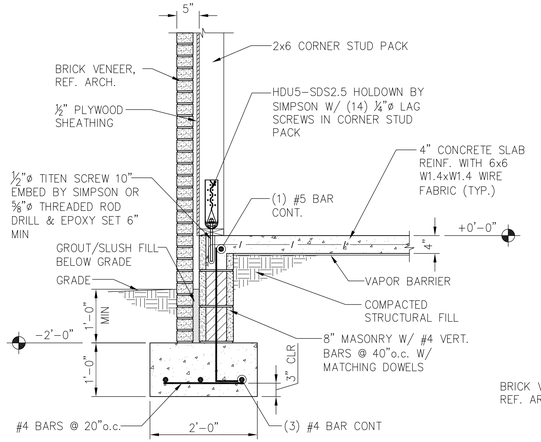
NOTE:

SAW CUT JOINT WITHIN 4-12 HOURS AFTER PLACING CONCRETE

CONTROL JOINT

DETAIL 6 / S4.0

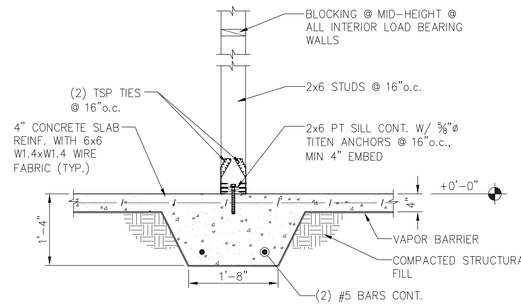
NOT TO SCALE



EXTERIOR WALL @ HOLDOWN

SECTION 4 / S4.0

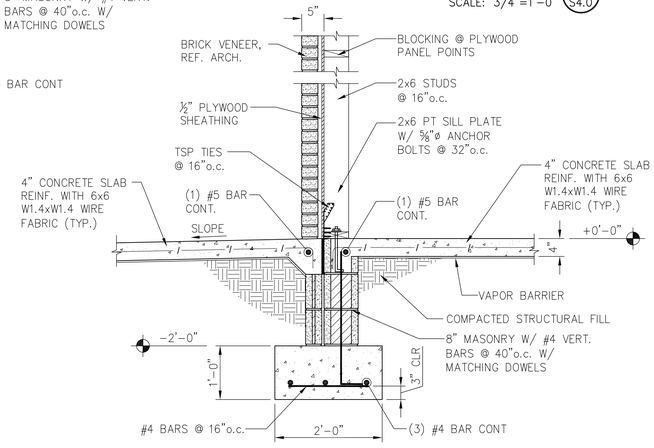
SCALE: 3/4"=1'-0"



INTERIOR LOAD BEARING

SECTION 5 / S4.0

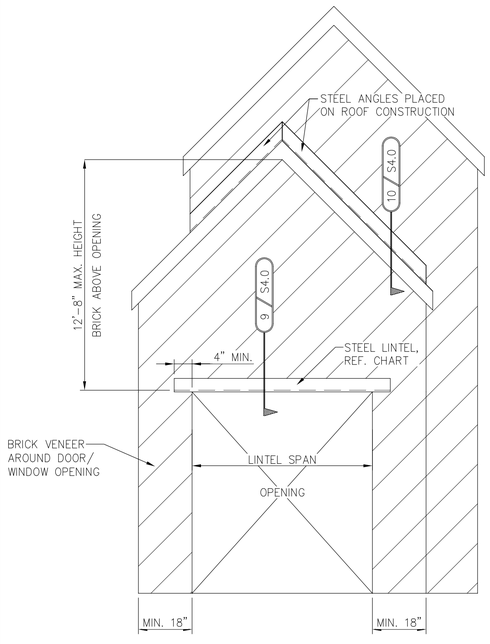
SCALE: 3/4"=1'-0"



EXTERIOR WALL

SECTION 7 / S4.0

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



STEEL ANGLE SUPPORT/ ATTACHMENT	
SPAN	SUPPORT/ ATTACHMENT
< 9'-0"	BEAR LINTEL MIN. 4" ON SURROUNDING BRICK VENEER
> 9'-0"	ATTACH LINTEL TO WOOD HEADER W/ ⅜"ø LAG SCREWS @ 16" o.c.
CONT.*	ATTACH ANGLE TO EACH WOOD STUD W/ ⅜"ø LAG SCREW

* WHERE LINTELS PLACED DIRECTLY ON TOP OF ROOF CONSTRUCTION FOR SUPPORT OF BRICK ABOVE.

NOTES:

1. STEEL LINTELS SHALL HAVE A LENGTH OF BEARING NOT LESS THAN 4 INCHES.
2. ALLOWABLE SPAN SHALL NOT EXCEED 18'-3".
3. MIN. ⅔ WIDTH OF BRICK VENEER THICKNESS SHALL BEAR ON STEEL ANGLE.
4. MAX. HEIGHT OF BRICK VENEER ABOVE STEEL LINTEL SUPPORT SHALL BE 12'-8".
5. PROVIDE MIN. 18 IN OF BRICK VENEER ON EACH SIDE OF OPENING.
6. BRICK VENEER SHALL BE SEPARATED FROM SHEATHING BY MIN. 1" NOMINAL AIR SPACE, BUT NO MORE THAN 4½".
7. ROOF CONSTRUCTION WITH SLOPES GREATER THAN 7:12 BUT NO MORE THAN 12:12 SHALL HAVE MIN. 3"x3"x¼" STEEL VERTICAL STOPS WELDED TO ANGLE @ 24" o.c.
8. PROVIDE MIN. TRPL 2x6 RAFTER WHERE STEEL ANGLE IS PLACED DIRECTLY ON TOP OF ROOF CONSTRUCTION. WOOD MEMBER ABUTTING VERTICAL STUD WALL SHALL BE ANCHORED W/ MIN. ⅜"ø - 5" LONG LAG SCREWS TO EVERY WOOD STUD SPACING. EACH ADDITIONAL ROOF MEMBER SHALL BE ANCHORED BY USE OF (2) 10d NAILS AT EVERY WOOD STUD SPACING.

TYP. EXTERIOR STEEL LINTEL APPLICATIONS

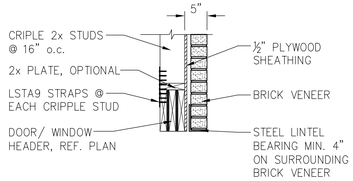
DETAIL 8 / S4.0

NOT TO SCALE

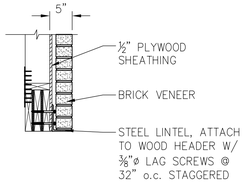
ALLOWABLE SPANS FOR GALV. STEEL LINTELS SUPPORTING BRICK VENEER PER FBC 2023	
LINTEL SIZE	NO STORY ABOVE
L3"x3"x¼"	6'-0"
L4"x3"x¼" LLV	8'-0"
L5"x3½"x5⁄16" LLV	10'-0"
L6"x3½"x5⁄16" LLV	14'-0"

** REF. PLAN FOR SPANS GREATER THAN 12'-0".

STEEL LINTEL BEARING ON BRICK



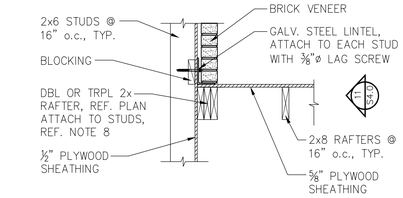
STEEL LINTEL ATTACHED TO HEADER



TYP. EXTERIOR HEADER CONSTRUCTION

SECTION 9 / S4.0

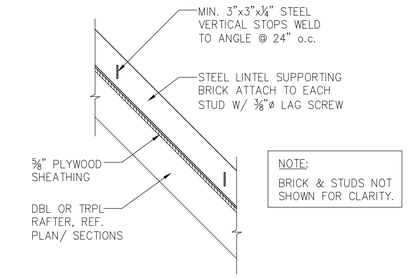
SCALE: 3/4"=1'-0"



TYP. EXTERIOR ROOF CONSTRUCTION

SECTION 10 / S4.0

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



STEEL ANGLE ELEVATION

SECTION 11 / S4.0

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

BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

SECTIONS AND DETAILS

NEW STREAM BUILDING

LOCATION:

205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

RUSSELL S. BARTON LICENSE No. 63390 STATE OF FLORIDA PROFESSIONAL ENGINEER

FOR PERMIT

REVISIONS:

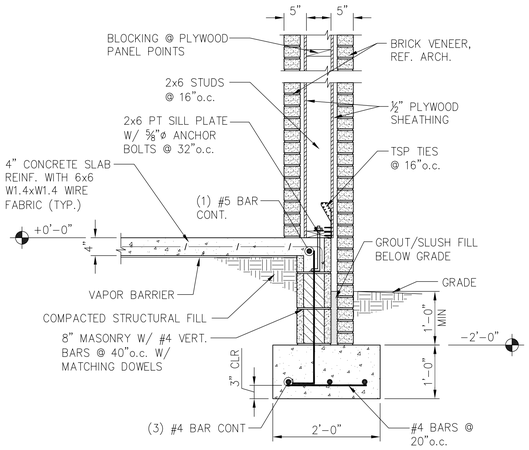
DRAWN BY: KEP

DESIGNED BY: MKS

DATE: 19 DEC 2024

SHEET S4.0

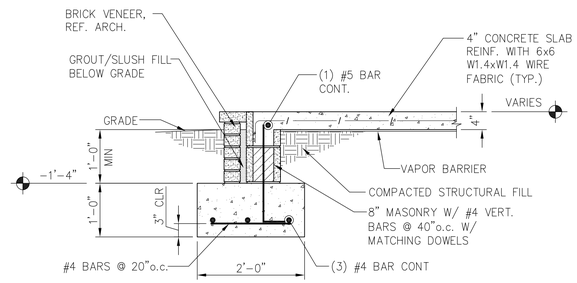
24149



EXTERIOR WALL

SECTION 1 S4.1

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



EXTERIOR SLAB EDGE @ ENTRY

SECTION 2 S4.1

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

BARTON & SHUMER ENGINEERING, LLC

3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
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SECTIONS AND DETAILS

NEW STREAM BUIDLDING

LOCATION:

205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

RUSSELL S. BARTON
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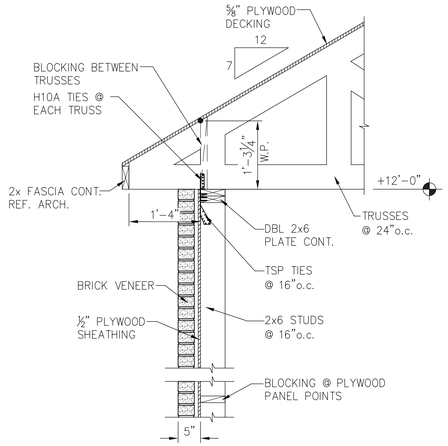
DESIGNED BY: MKS

DATE: 19 DEC 2024

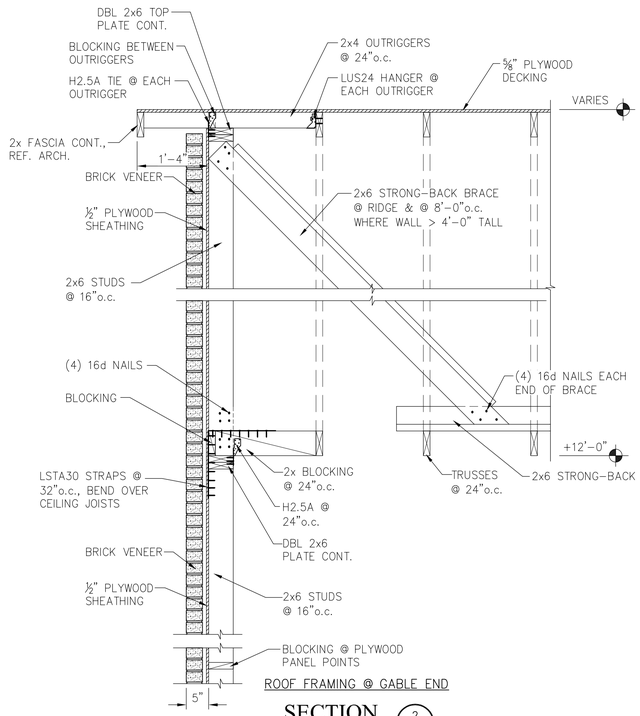
SHEET S4.1

24149



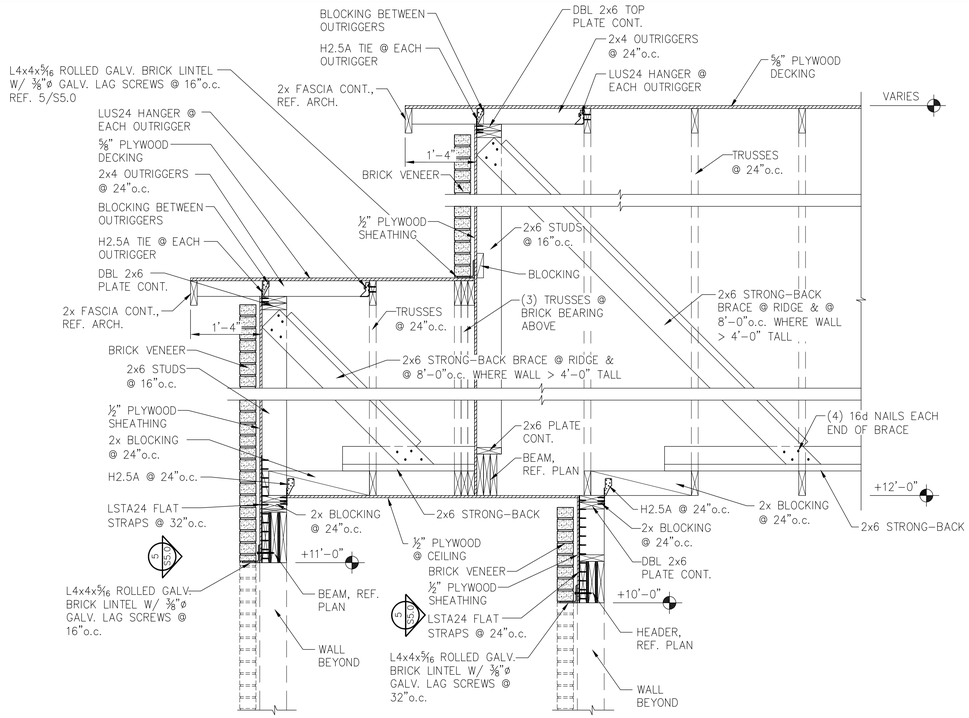
ROOF FRAMING

SECTION 1 S5.0
SCALE: 3/4"=1'-0"



ROOF FRAMING @ GABLE END

SECTION 2 S5.0
SCALE: 3/4"=1'-0"



ROOF FRAMING @ GABLE END @ ENTRY

SECTION 3 S5.0
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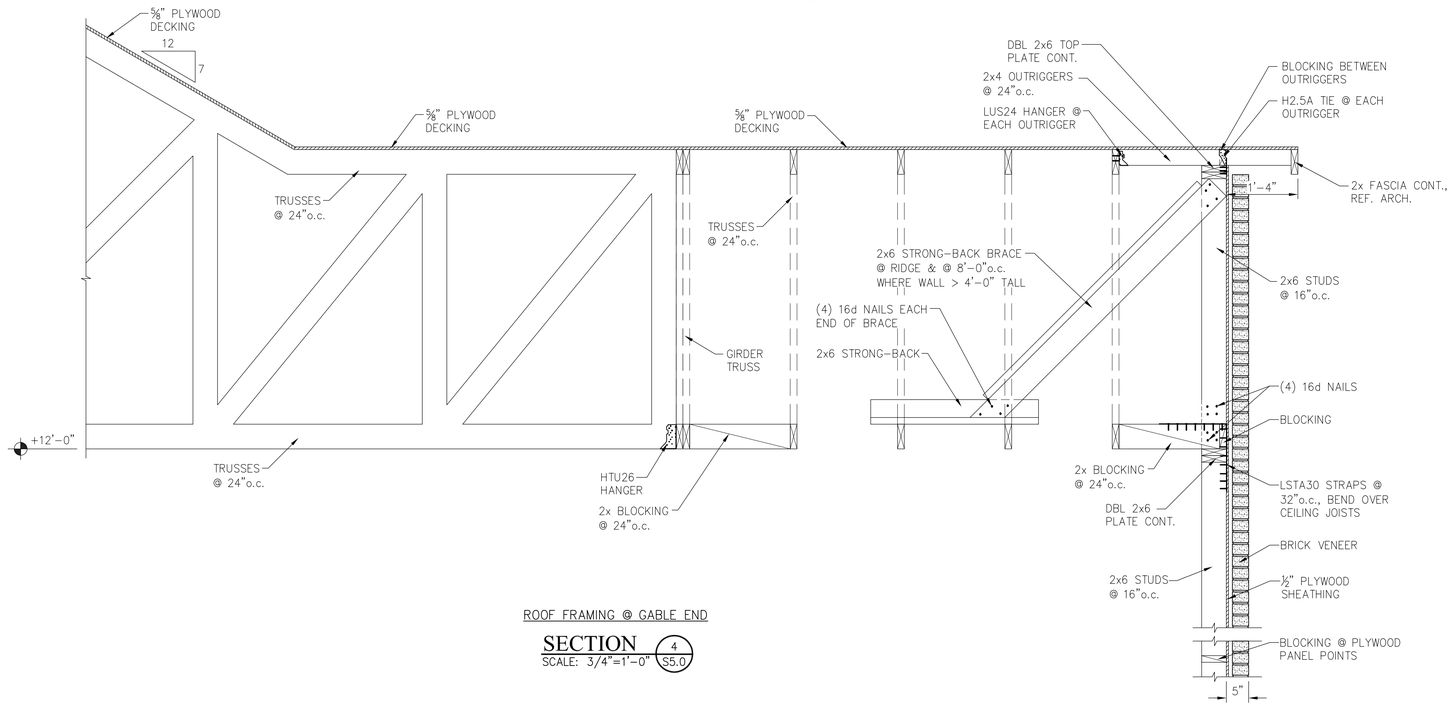
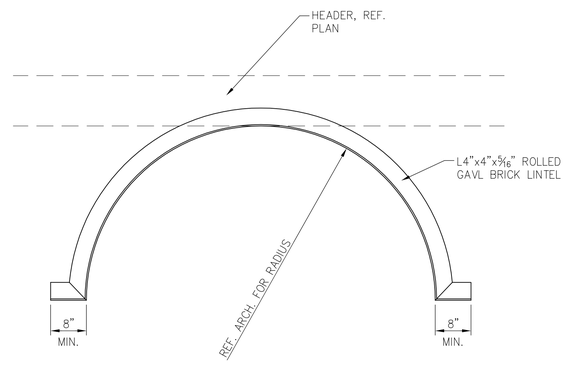


ROOF FRAMING @ GABLE END

SECTION 4 S5.0
SCALE: 3/4"=1'-0"



RADIUS BRICK LINTEL

SECTION 5 S5.0
SCALE: 3/4"=1'-0"

BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

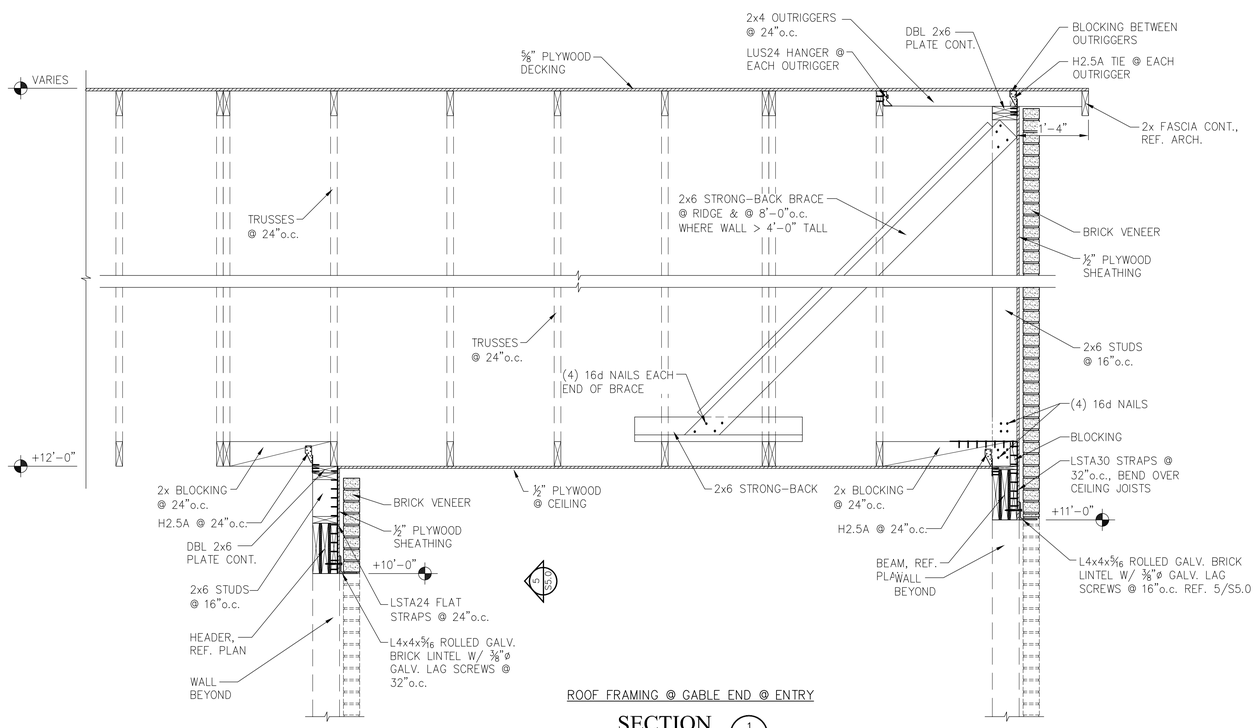
SECTIONS AND DETAILS
NEW STREAM BUIDLDING

LOCATION:
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

RUSSELL S. BARTON LICENSE No. 83599 STATE OF FLORIDA PROFESSIONAL ENGINEER
FOR PERMIT

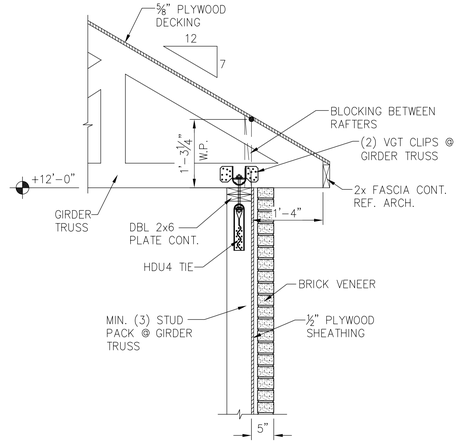
REVISIONS:

DRAWN BY: KEP
DESIGNED BY: MKS
DATE: 19 DEC 2024
SHEET: S5.0
24149



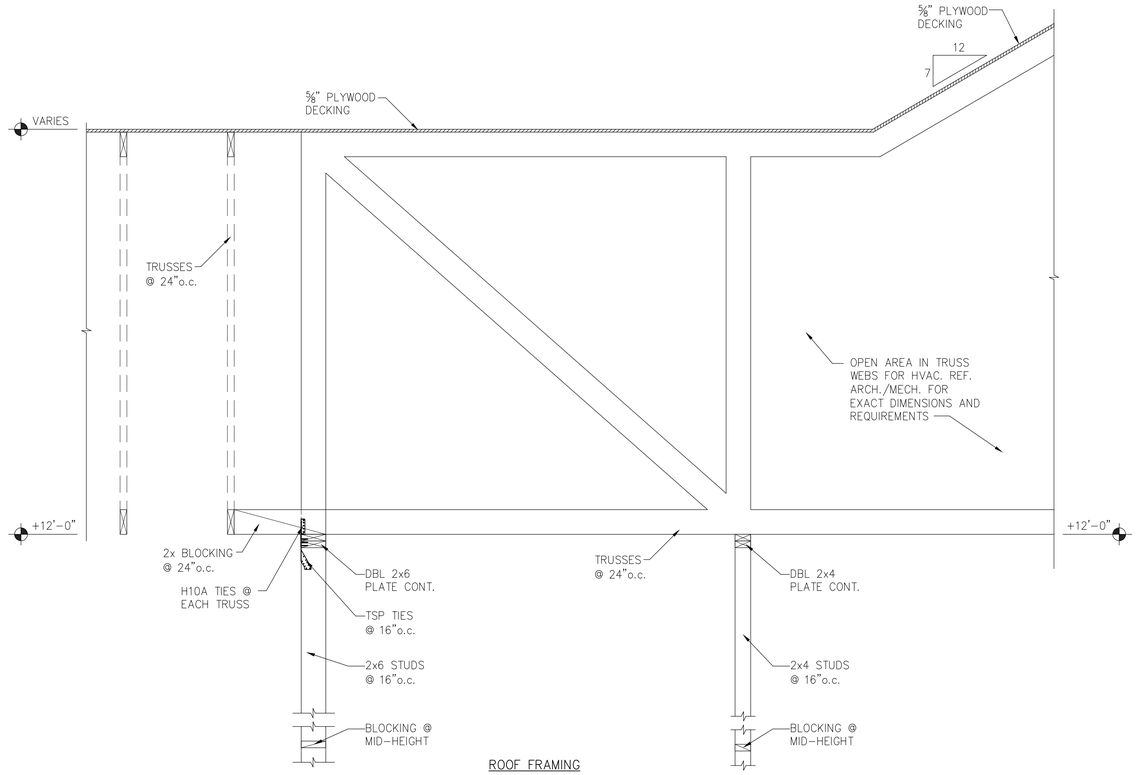
ROOF FRAMING @ GABLE END @ ENTRY

SECTION 1 S6.0
SCALE: 3/4"=1'-0"



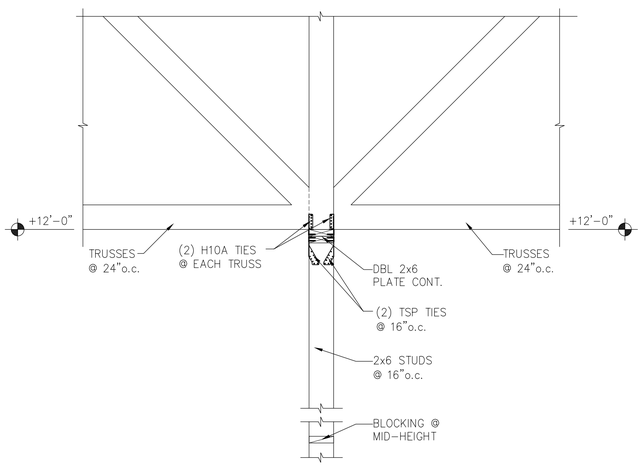
ROOF FRAMING @ GIRDER TRUSS

SECTION 3 S6.0
SCALE: 3/4"=1'-0"



ROOF FRAMING

SECTION 2 S6.0
SCALE: 3/4"=1'-0"



ROOF FRAMING

SECTION 4 S6.0
SCALE: 3/4"=1'-0"

BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

SECTIONS AND DETAILS
NEW STREAM BUIDLDING

205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

LOCATION:

RUSSELL S. BARTON LICENSE No. 83599 STATE OF FLORIDA PROFESSIONAL ENGINEER
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REVISIONS:

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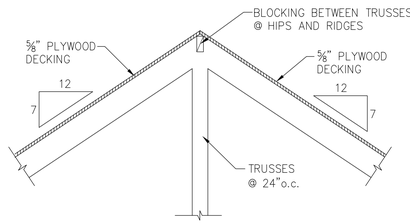
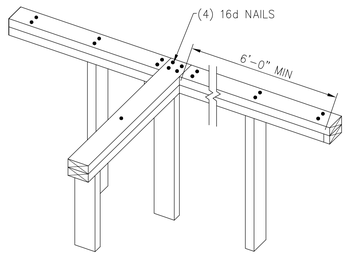


TRUSSES @ RIDGE

SECTION 1 S7.0
SCALE: 3/4"=1'-0"

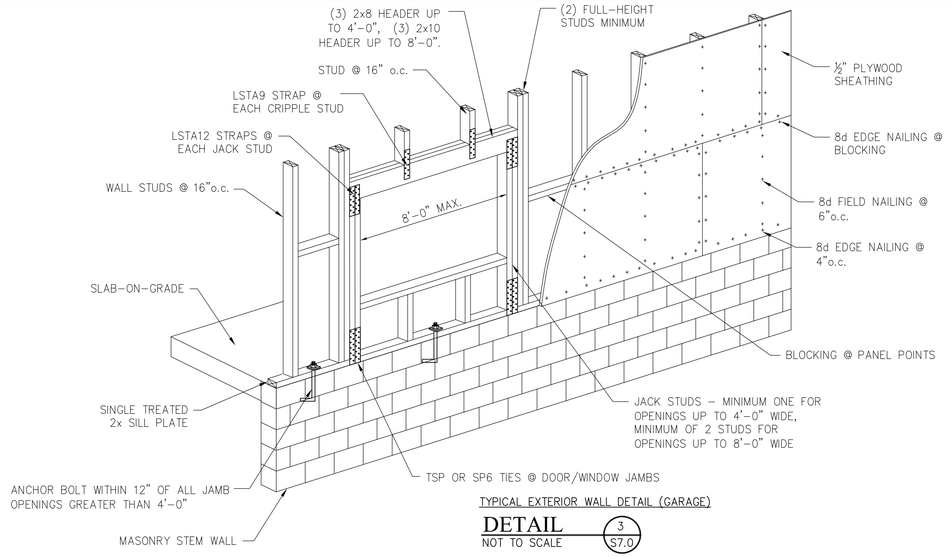
INTERIOR WALL HEADERS		
SPAN	HEADER	JACK STUDS
<4'-0"	(2) 2x8	1
4'-8'	(2) 2x10	2

**REF PLAN FOR SPANS GREATER THAN 8'-0"



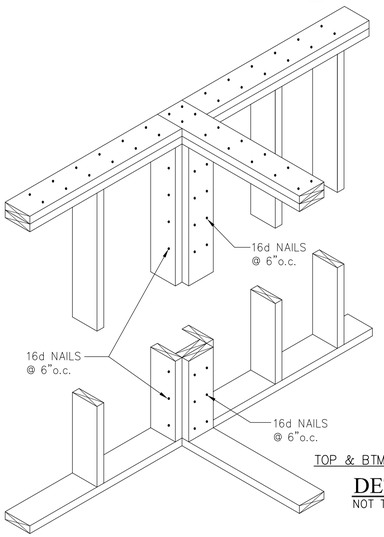
TOP PLATE INTERSECTION DETAIL

DETAIL 2 S7.0
NOT TO SCALE



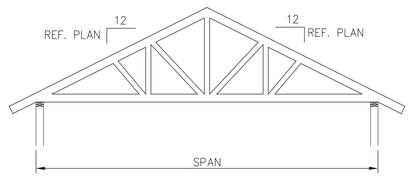
TYPICAL EXTERIOR WALL DETAIL (GARAGE)

DETAIL 3 S7.0
NOT TO SCALE



TOP & BTM PLATE INTERSECTION DETAIL

DETAIL 4 S7.0
NOT TO SCALE



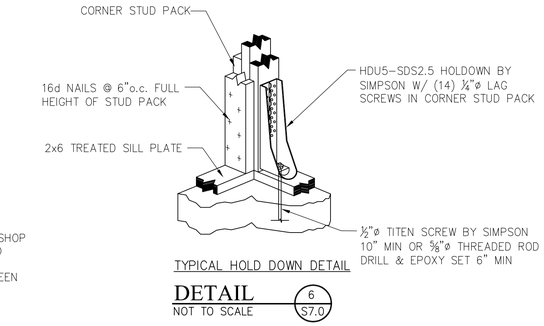
DETAIL 5 S7.0
NOT TO SCALE

WOOD TRUSSES:

DESIGN REQUIREMENTS:

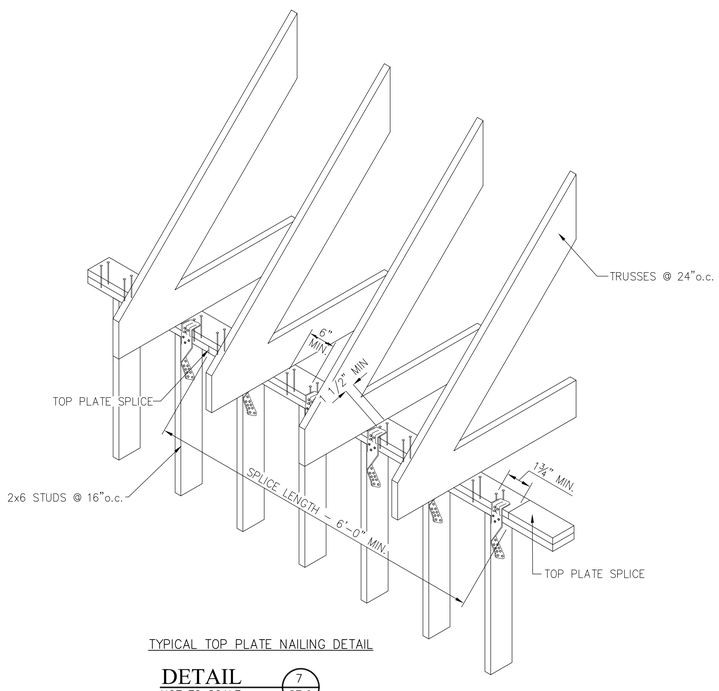
DL = 10 PSF TOP CHORD
LL = 16 PSF TOP CHORD
WL = 26 PSF NET TOP CHORD UPLIFT
DL = 8 PSF BOTTOM CHORD
LL = 5 PSF BOTTOM CHORD

1. TRUSSES ARE TO BE DESIGNED TO BEAR ONLY ON THOSE WALLS INDICATED ON THESE DRAWINGS.
2. ALL TRUSSES TO HAVE BRIDGING AS REQUIRED BY THE MANUFACTURER.
3. ALL TRUSSES SHALL BE PLACE ACCORDING TO THE MANUFACTURER.
4. TRUSSES TO HAVE HURRICANE STRAPS AT ALL BEARING POINTS.
5. SHOP DRAWINGS SHALL BE PREPARED FOR THE TRUSS ROOF SYSTEM. SHOP DRAWINGS SHALL INCLUDE FRAMING LAYOUT, INSTALLATION DETAILS, AND RELATED REQUIREMENTS. DRAWINGS SHALL BE SUBMITTED FOR REVIEW. MATERIAL SHOULD NOT BE FABRICATED UNTIL SUBMITTED ITEMS HAVE BEEN REVIEWED AND APPROVED.



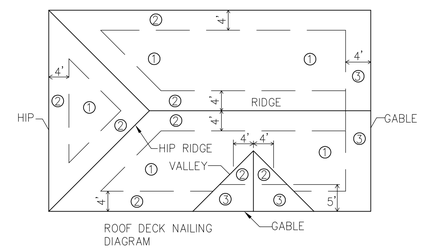
TYPICAL HOLD DOWN DETAIL

DETAIL 6 S7.0
NOT TO SCALE



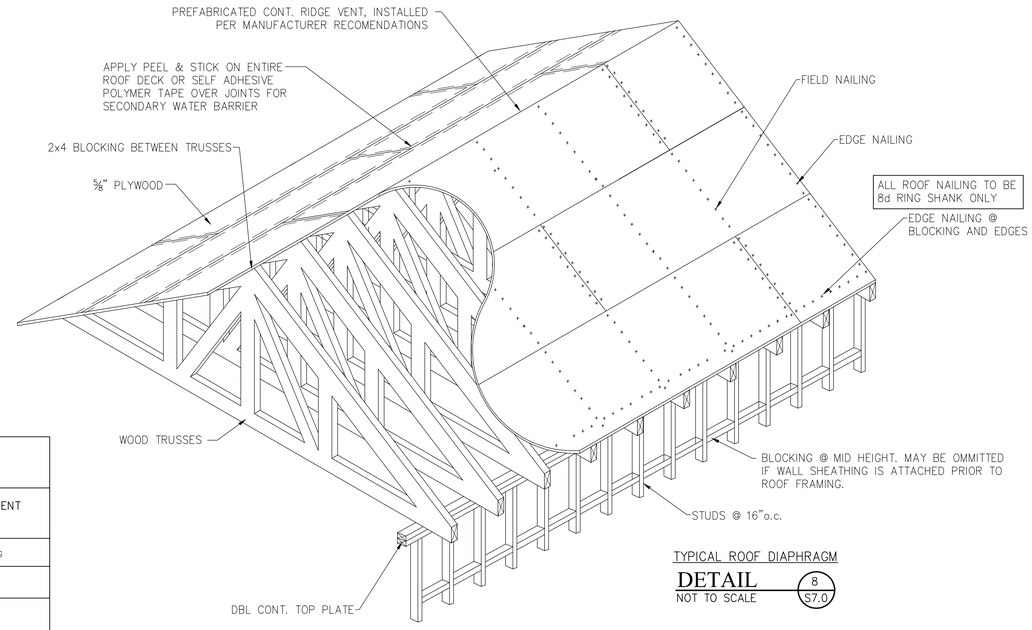
TYPICAL TOP PLATE NAILING DETAIL

DETAIL 7 S7.0
NOT TO SCALE



ROOF DECK NAILING
DIAGRAM

ROOF SHEATHING ATTACHMENT REQUIREMENTS			
THREE SECOND GUST, 140 MPH (ULT) WIND SPEED		STRUCTURAL SHEATHING ATTACHMENT WITH 8d RING SHANK NAILS	
	RAFTER/TRUSS SPACING (INCHES o.c.)	EDGE NAILING	FIELD NAILING
① INTERIOR ZONE	24"o.c.	4"o.c.	4"o.c.
② PERIMETER/ EDGE ZONE	24"o.c.	4"o.c.	4"o.c.
③ GABLE ENDWALL RAKE OR RAKE TRUSS W/LOOKOUTBLOCK		4"o.c.	4"o.c.



TYPICAL ROOF DIAPHRAGM

DETAIL 8 S7.0
NOT TO SCALE

BARTON & SHUMER ENGINEERING, LLC
3213 MIDTOWN PARK SOUTH
MOBILE, AL 36606
PHONE: 251-219-4942

SECTIONS AND DETAILS
NEW STREAM BUILDING

LOCATION:
205 HAMILTON AVENUE
PANAMA CITY, FLORIDA 32401

RUSSELL S. BARTON
LICENSE
No. 63599
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FOR PERMIT

REVISIONS:

DRAWN BY: KEP
DESIGNED BY: MKS
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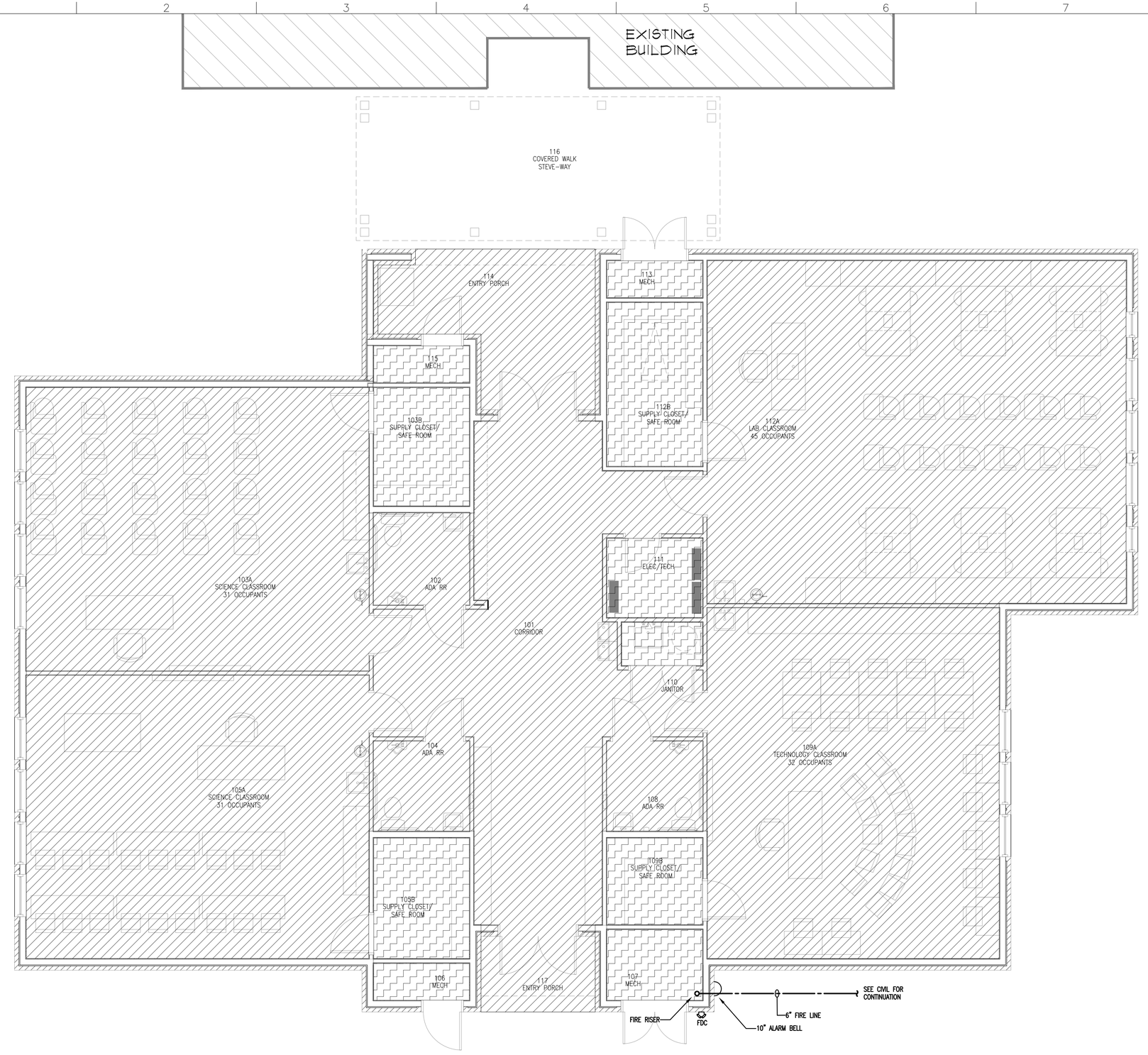
SHEET S7.0
24149



FIRE PROTECTION NOTES

THE FIRE SPRINKLER SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH AND BE REVIEWED BY FM GLOBAL.

THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE COMPLETE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS THOROUGHLY COORDINATED WITH THE CONSTRUCTION DOCUMENTS AND THE OTHER TRADES. ALL LAYOUT WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING;

1. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 13 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS".

2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 14 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF STANDPIPES AND HOSE SYSTEMS".

3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 20 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF CENTRIFUGAL PUMPS".

4. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 24 (CURRENT EDITION) THE "STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAIN AND THEIR APPURTENANCES".

5. FLORIDA BUILDING CODE (CURRENT EDITION) AND THE LIFE SAFETY CODE (NFPA 101 (CURRENT EDITION)

6. WHERE ADDITIONAL OR MORE STRINGENT REQUIREMENTS ARE NOTED ON THE DRAWINGS OR SPECIFIED BY LOCAL ORDINANCES, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. PARTICULAR ATTENTION SHOULD BE GIVEN TO LOCAL ORDINANCES PERTAINING TO STANDPIPE REQUIREMENTS.

7. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD TWO SETS OF THE FIRE SPRINKLER LAYOUT DRAWINGS, PRODUCT SUBMITTAL AND HYDRAULIC CALCULATIONS FOR REVIEW. THE FIRE SPRINKLER LAYOUT DRAWINGS AND CALCULATIONS SHALL REQUIRE THE OVERSIGHT AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS A CONTRACTUAL REQUIREMENT. NO INSTALLATION SHALL PROCEED WITHOUT PRIOR APPROVAL OF THE ABOVE REFERENCED.

8. THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT THE REQUIRED FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL AND PERMITTING. THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS SHALL REQUIRE THE OVERSIGHT AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER AS A CONTRACTUAL REQUIREMENT. NO INSTALLATION SHALL PROCEED WITHOUT PRIOR APPROVAL OF THE ABOVE REFERENCED.

9. THE PRIVATE FIRE SERVICE MAIN SHALL BE INSTALLED BY A FLORIDA CERTIFIED FIRE SPRINKLER CONTRACTOR. THIS CONTRACTOR'S WORK SHALL BEGIN AT THE POINT OF CONNECTION WHERE THE UNDERGROUND IS SOLELY DEDICATED

10. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A CURRENT FIRE FLOW TEST. THE FIRE FLOW TEST SHALL BE WITNESSED AND APPROVED BY THE LOCAL FIRE INSPECTOR.

LIGHT HAZARD DESIGN APPROACH DATA

SYSTEM(s) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
LIGHT HAZARD DENSITY: 0.10 GPM/ SQ. FT.
HEAD SPACING: 225 SQ. FT. PER HEAD (MAX.)

ORDINARY HAZARD GROUP I DESIGN APPROACH DATA

SYSTEM(s) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.15 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

ORDINARY HAZARD GROUP II DESIGN APPROACH DATA

SYSTEM(s) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.20 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

HAZARD CLASSIFICATIONS

LIGHT HAZARD	ORDINARY HAZARD GROUP I	ORDINARY HAZARD GROUP II
.10 GPM/FT²	.15 GPM/FT²	.20 GPM/FT²
100 GPM HOSE ALLOWANCE	250 GPM HOSE ALLOWANCE	250 GPM HOSE ALLOWANCE

1 FP1.1 FP1.1 FIRE PROTECTION FLOOR PLAN
SCALE: 1/4" = 1'-0"

JOHNSON PEADEN ENGINEERING INC.
221 Hollywood Blvd NE, Ft Walton Beach, FL 32548, 850.244.6189V
1399-M Jenks Ave, Panama City, FL 32401, 850.215.4068V
Alabama #CD-2429-E, Arkansas #1654, Florida #00009014, Georgia #PEF003983, Louisiana #EF0006882
Mississippi #E-0000862, Missouri #2018035834, South Carolina #7058, Tennessee #7417, Texas #F-16637

JPE Job Number: 2439

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

JONATHAN M. PEADEN LICENSE NO. 60209 STATE OF FLORIDA PROFESSIONAL ENGINEER
December 23, 2024

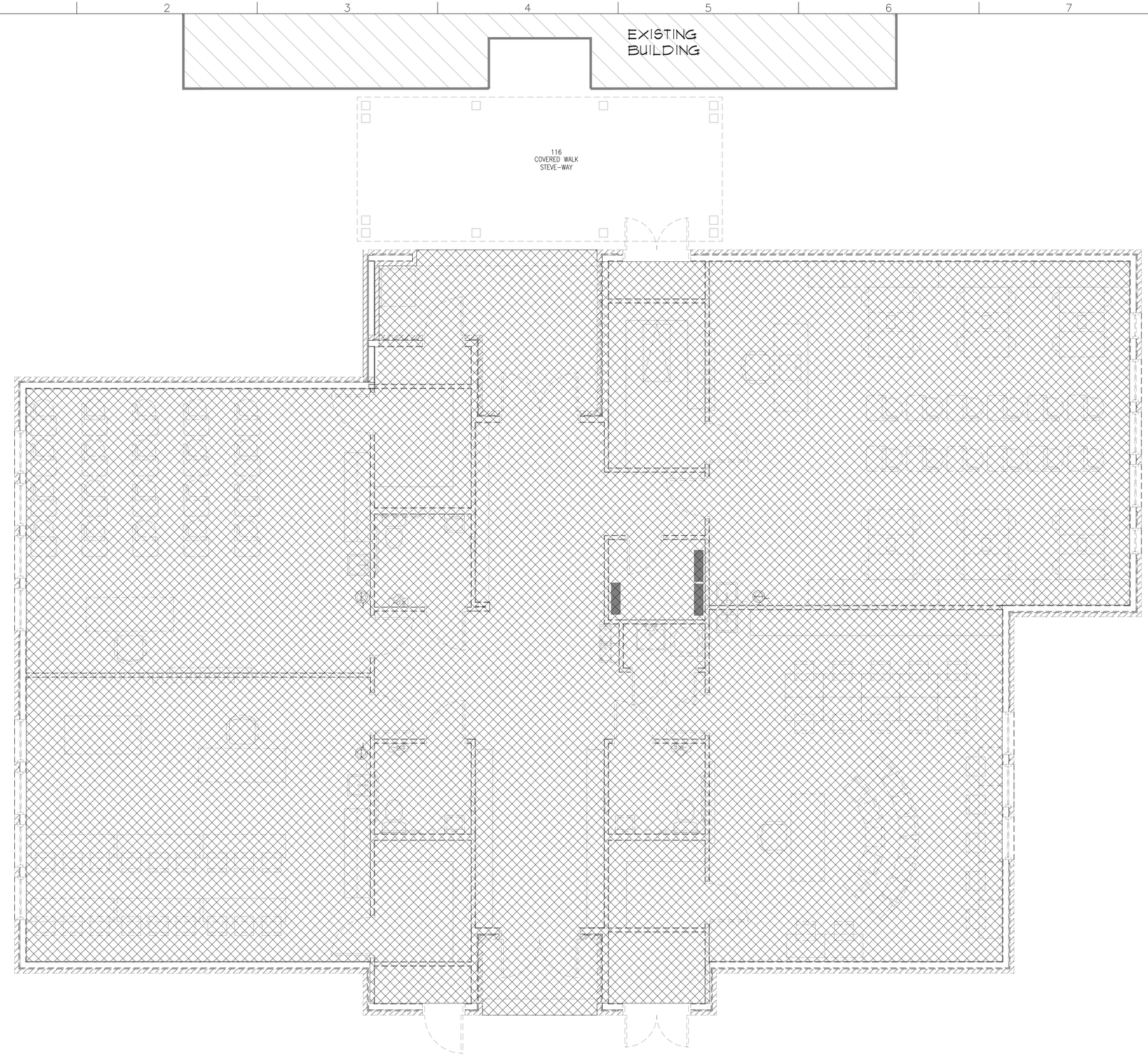
DATE 12-23-2024
DRAWN JP | REVIEWED JJ

REVISIONS NO.	DATE	DESC.

PROJECT # 2409

CONSTRUCTION DOCUMENTS
FIRE PROTECTION FLOOR PLAN
NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. FP1.1



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REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
LIGHT HAZARD DENSITY: 0.10 GPM/ SQ. FT.
HEAD SPACING: 225 SQ. FT. PER HEAD (MAX.)

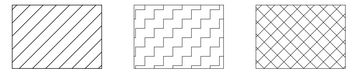
ORDINARY HAZARD GROUP I DESIGN APPROACH DATA

SYSTEM(S) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.15 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

ORDINARY HAZARD GROUP II DESIGN APPROACH DATA

SYSTEM(S) TYPE: WET PIPE
REMOTE AREA: MOST HYDRAULICALLY DEMANDING 1500 SQ. FT.
ORDINARY HAZARD DENSITY: 0.20 GPM/ SQ. FT.
HEAD SPACING: 130 SQ. FT. PER HEAD (MAX.)

HAZARD CLASSIFICATIONS



N

1 FP1.2 | FP1.2

FIRE PROTECTION ATTIC PLAN

4' 2' 0' 4' 8'
SCALE: 1/4" = 1'-0"

JOHNSON PEADEN ENGINEERING INC.
11399-M Jenks Ave
Panama City, FL 32401
850.244.6189V
850.215.4068V
Alabama #CD-2429-E
Arkansas #1654
Florida #00009014
Georgia #PEF003983
Louisiana #EF0006882
Mississippi #E-00000862
Missouri #2018035834
South Carolina #7058
Tennessee #7417
Texas #F-16637

JPE Job Number: 2439

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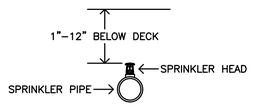
REVISIONS NO.	DATE	DESC.

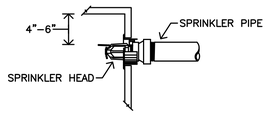
PROJECT # 2409

CONSTRUCTION DOCUMENTS
FIRE PROTECTION ATTIC PLAN
NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

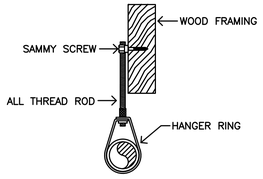
SHEET NO. FP1.2



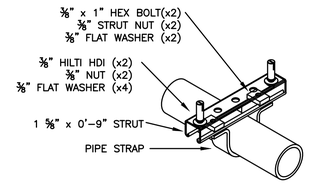
UPRIGHT SPRINKLER
NOT TO SCALE



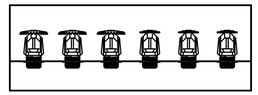
SIDEWALL SPRINKLER
NOT TO SCALE



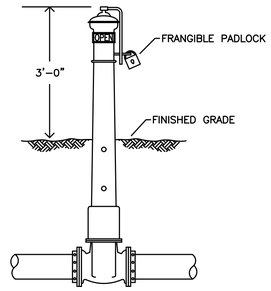
HANGER DETAIL
NOT TO SCALE



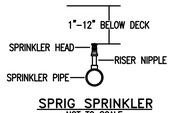
HANGER #33 UNISTRUT & PIPE STRAP
NOT TO SCALE



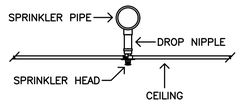
SPARE HEAD BOX
NOT TO SCALE



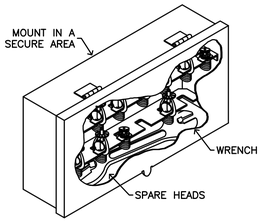
POST INDICATOR VALVE DETAIL
NOT TO SCALE



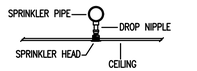
SPRIG SPRINKLER
NOT TO SCALE



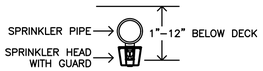
RECESSED SPRINKLER
NOT TO SCALE



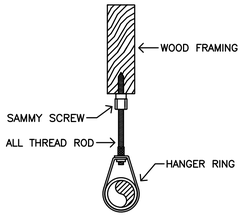
HEAD BOX DETAIL
NOT TO SCALE



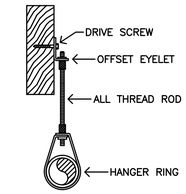
CONCEALED SPRINKLER
NOT TO SCALE



PENDENT SPRINKLER
NOT TO SCALE



HANGER DETAIL
NOT TO SCALE



HANGER DETAIL
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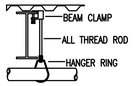

HANGER DETAIL
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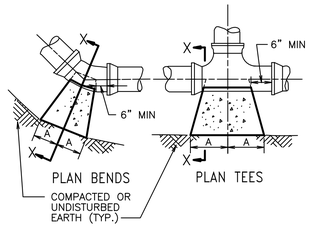
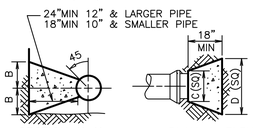


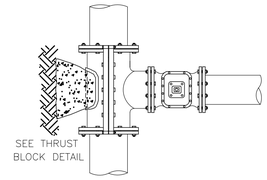


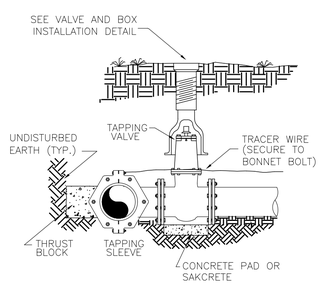
SECTION X–X BENDS & TEES

PLAN & ELEVATION PLUGS

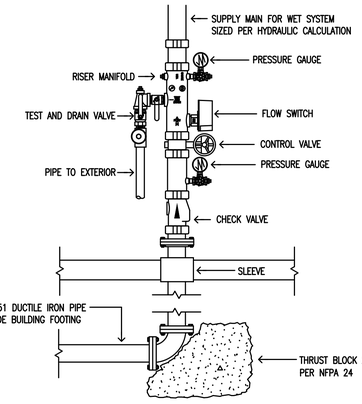
SIZE	¼ BENDS		⅛ BENDS		1/16 BENDS		TEES		PLUGS	
	A	B	A	B	A	B	A	B	C	D
6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

THRUST BLOCK DETAILS
N.T.S.

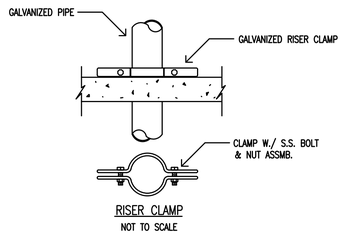




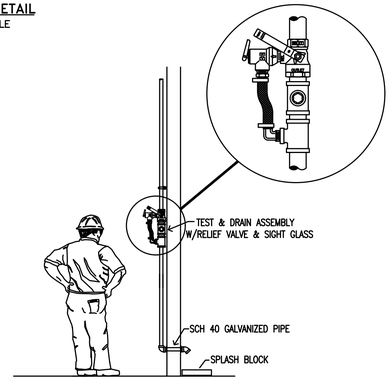
TAPPING SLEEVE & VALVE DETAIL
N.T.S.



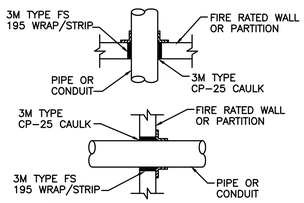
FIRE SPRINKLER RISER DETAIL
NOT TO SCALE



RISER CLAMP
NOT TO SCALE

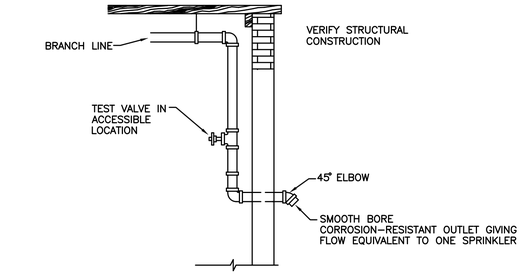


INSPECTORS TEST VALVE
NOT TO SCALE



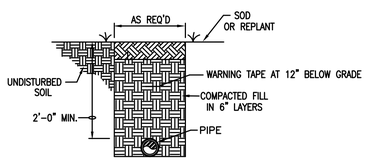
NOTE:
ALL FIRE STOPPING MATERIAL TO COMPLY WITH STANDARD BUILDING CODE SECTION 705, ASTM E119 REQUIREMENTS.

DETAIL–FIRE STOPPING OF PIPING PENETRATIONS
NO SCALE

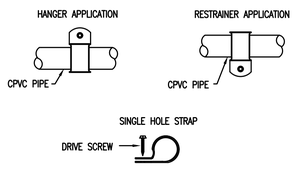


NOTE: NOT LESS THAN 4 FT (1.2 M) OF EXPOSED TEST PIPE IN WARM ROOM BEYOND VALVE WHERE PIPE EXTENDS THROUGH WALL TO OUTSIDE.

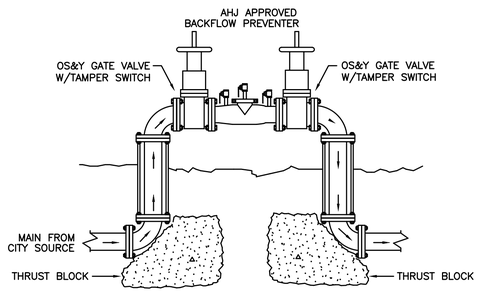
INSPECTORS TEST CONNECTION WET PIPE SYSTEM
NO SCALE



TRENCH DETAIL
NO SCALE



SINGLE FASTENER CPVC PIPE STRAP
NOT TO SCALE



BACKFLOW PREVENTOR DETAIL
NOT TO SCALE

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

JONATHAN M. PEADEN LICENSE NO. 60209 STATE OF FLORIDA PROFESSIONAL ENGINEER
December 23, 2024

DATE 12-23-2024
DRAWN JP REVIEWED JJ
REVISIONS
NO. DATE DESC.

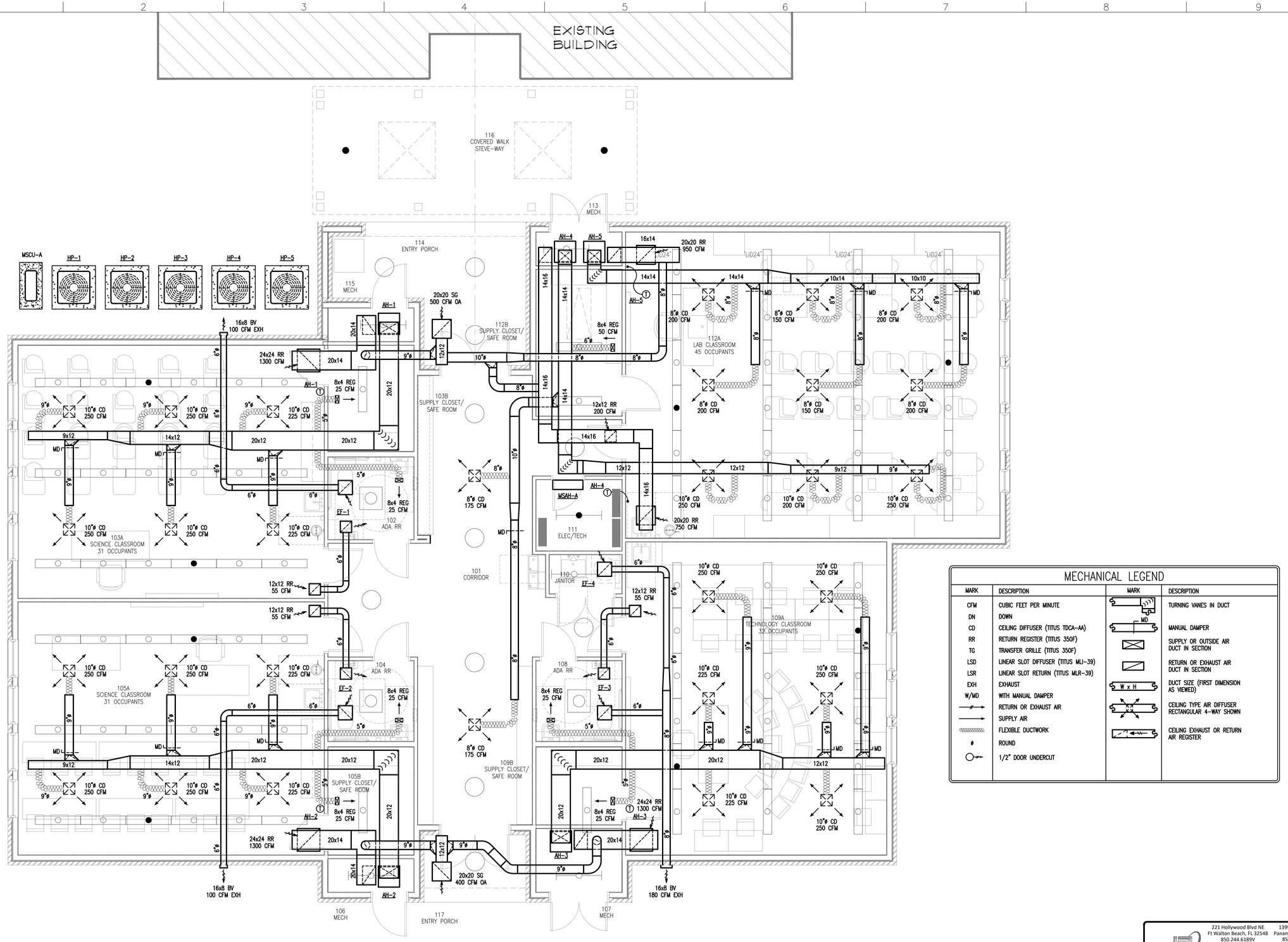
PROJECT # 2409

CONSTRUCTION DOCUMENTS
FIRE PROTECTION NOTES AND DETAILS
NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

JOHNSON PEADEN ENGINEERING INC.
221 Hollywood Blvd NE, Ft Walton Beach, FL 32548, 850.244.6189V
Alabama #CD-2429-E, Arkansas #1654, Florida #00009014, Georgia #PEF003983, Louisiana #EF0006882
1399-M Jenks Ave, Panama City, FL 32401, 850.215.4068V
Mississippi #E-00000862, Missouri #2018035834, South Carolina #7058, Tennessee #7417, Texas #F-16637

JPE Job Number: 2439

SHEET NO. FP2.1



MECHANICAL LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION
CFM	CUBIC FEET PER MINUTE		TURNING VANES IN DUCT
DN	DOWN	MD	MANUAL DAMPER
CD	CEILING DIFFUSER (TITUS TDCA-AA)		SUPPLY OR OUTSIDE AIR DUCT IN SECTION
RR	RETURN REGISTER (TITUS 350F)		RETURN OR EXHAUST AIR DUCT IN SECTION
TG	TRANSFER GRILLE (TITUS 350F)	W x H	DUCT SIZE (FIRST DIMENSION AS VIEWED)
LSD	LINEAR SLOT DIFFUSER (TITUS MLI-39)		CEILING TYPE AIR DIFFUSER RECTANGULAR 4-WAY SHOWN
LSR	LINEAR SLOT RETURN (TITUS MLR-39)		CEILING EXHAUST OR RETURN AIR REGISTER
EXH	EXHAUST		
W/MD	WITH MANUAL DAMPER		
	RETURN OR EXHAUST AIR		
	SUPPLY AIR		
	FLEXIBLE DUCTWORK		
ø	ROUND		
	1/2" DOOR UNDERCUT		

HVAC FLOOR PLAN

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

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"
LICENSE NO. AR94000
PHONE: 850 769 3357
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JONATHAN M. PEADEN LICENSE NO. 60209 STATE OF FLORIDA PROFESSIONAL ENGINEER

December 23, 2024

DATE 12-23-2024
DRAWN JP | REVIEWED JJ
REVISIONS
NO. | DATE | DESC.

PROJECT # 2409

CONSTRUCTION DOCUMENTS

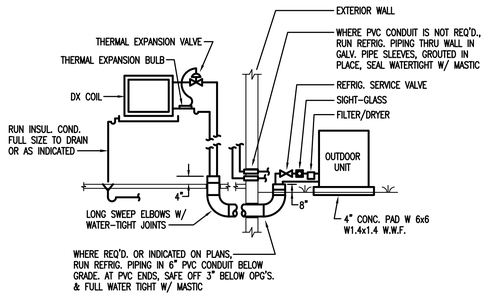
HVAC FLOOR PLAN

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. M1.1

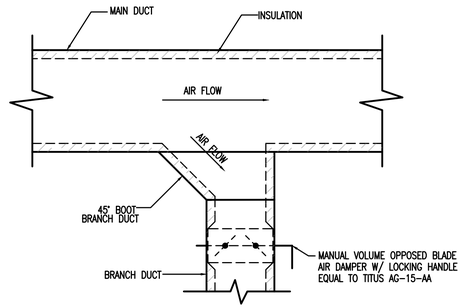
JOHNSON PEADEN ENGINEERING INC.
221 Hollywood Blvd NE, Ft Walton Beach, FL 32548, 850.244.6188V
1399-M Jenks Ave, Panama City, FL 32401, 850.215.4068V
Alabama #CD-2429-E, Arkansas #1654, Florida #00009014, Georgia #PEF003983, Louisiana #EF0006882
Mississippi #E-00000862, Missouri #2018035834, South Carolina #7058, Tennessee #7417, Texas #F-16637

JPE Job Number: 2439



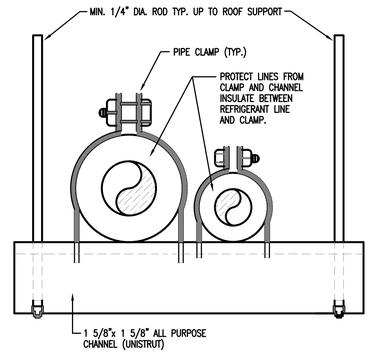
TYPICAL REFRIGERANT PIPING DIAGRAM

NOT TO SCALE



BRANCH DUCT TAP FROM MAIN

NOT TO SCALE

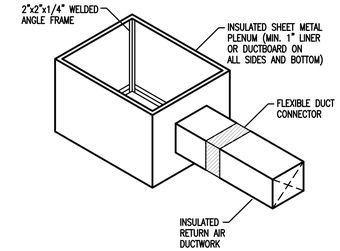


NOTE: SUPPORT PIPE ON CHANNEL @ 10' O.C. MAX.

REFRIGERANT PIPE SUPPORT DETAIL

NOT TO SCALE

NOTE:
RUN WELDED ANGLE BRACKETS FOR AIR HANDLER'S HANDLER'S BASE FOR SUPPORT SO TOP INSULATED SHEET METAL DOES NOT SAG. SEAL AIR HANDLER TO PLENUM AIR TIGHT.

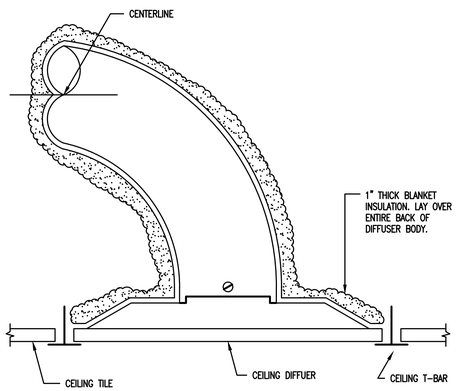


STAND-TYPE RETURN PLENUM

NOT TO SCALE

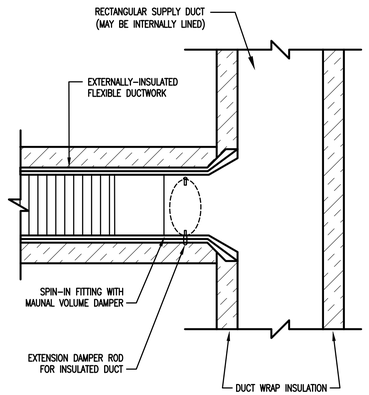
GENERAL MECHANICAL NOTES

1. FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL SYSTEM. DUE TO THE SCHEMATIC NATURE OF THESE PLANS, THE CONTRACTOR SHALL FIELD-VERIFY LOCATIONS FOR EQUIPMENT DUCTWORK, AND ACCESSORIES. IN ADDITION, THIS WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS. THE CONTRACTOR SHALL ALSO REVIEW THE STRUCTURAL DRAWINGS BEFORE FABRICATING AND INSTALLING DUCTWORK OR EQUIPMENT.
2. ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCED WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
3. ALL MATERIALS SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. DUCT SIZES ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DUCT SHALL BE OF LOW-PRESSURE (1.0" w.g.) CONSTRUCTION AS CLASSIFIED BY SMACNA UNLESS OTHERWISE NOTED. ALL DUCT SHALL HAVE MINIMUM 1" INTERNAL LINER FOR THE FIRST 20 FEET FOR SOUND ATTENUATION. AFTER 20 FEET, THE CONTRACTOR SHALL USE 2" EXTERNAL WRAP (MINIMUM R-6.0). DUCTBOARD IS NOT ALLOWED.
5. FLEXIBLE DUCT MAY BE INSTALLED ONLY WHERE SHOWN ON THE DRAWINGS. DUCT SHALL BE EXTERNALLY-INSULATED CORRUGATED METAL WITH A MAXIMUM LENGTH OF 8'-0". FOR TAKE-OFFS LONGER THAN 8'-0", THE REMAINDER OF THE DISTANCE SHALL BE EXTERNALLY-WRAPPED SINGLE-WALL ROUND DUCT WITH A SPIN-IN STYLE TAP AT THE MAIN DUCT.
6. HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK.
7. ALL RETURN AND EXHAUST GRILLES SHALL HAVE OPPOSED-BLADE DAMPERS. ALL SUPPLY-SIDE TAKE-OFFS SHALL HAVE A BALANCING DAMPER.
8. FIRE DAMPERS AND FIRE-STOPPING SHALL BE PROVIDED FOR ANY PENETRATIONS OF FIRE-RATED PARTITIONS. VERIFY LOCATIONS OF ALL FIRE-STOPPING ON THE ARCHITECTURAL DRAWINGS.
9. ALL GRILLES AND REGISTERS SHALL BE EQUAL TO TITUS WITH ALUMINUM CONSTRUCTION. SUPPLY GRILLES SHALL BE EQUAL TO MODEL TDC. SUPPLY REGISTERS SHALL BE EQUAL TO MODEL 301. RETURN, EXHAUST AND TRANSFER GRILLES SHALL BE EQUAL TO MODEL 355 WITH OPPOSED-BLADE DAMPERS. GRILLE FINISH SHALL BE APPROVED BY THE OWNER AND THE ARCHITECT.
10. EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE ABLE TO PROVIDE THE REQUIRED CAPACITIES IN THE MIDDLE OF IT'S PERFORMANCE RANGE. ALL COMPRESSORS SHALL HAVE A MINIMUM 5-YEAR WARRANTY UNLESS OTHERWISE NOTED. THE EQUIPMENT SHALL HAVE AL THE NECESSARY CONTROLS AND ACCESSORIES TO ALLOW FOR FULL OPERATION. IF EQUIPMENT HAS COMPONENTS OF A VIBRATIVE NATURE, THE CONTRACTOR SHALL PROVIDE THE NECESSARY VIBRATION CONTROLS.
11. REFRIGERANT PIPING SHALL BE HARD-DRAWN TYPE K OR L COPPER WITH COPPER SOLDER FITTINGS. PIPING SHALL BE SOLDERED WITH SILVER SOLDER AND INSULATED WITH 1/2" THICK THERMAL TUBULAR JACKETING. SEAL INSULATION JOINTS WITH TAPE AND CEMENT OR PER MANUFACTURER'S INSTRUCTIONS. PRE-INSULATED AND PRE-CHARGED REFRIGERANT LINES MAY BE USED AS PROVIDED BY THE EQUIPMENT MANUFACTURER. WHERE INSULATION IS EXPOSED TO WEATHER PROTECT LINES WITH AN ALUMINUM COVER AND PAINT TO MATCH EXTERIOR FINISH.
12. CONDENSATE DRAINS SHALL BE FULL-SIZE (3/4" MINIMUM) COPPER OR SCHEDULE 40 PVC. DRAINS SHALL BE INSULATED IN THE SAME MANNER AS REFRIGERANT LINES. SPILL ON GRADE ADJACENT TO OUTDOOR UNITS.
13. CONTROLS SHALL BE EQUAL TO MANUFACTURER'S CONTROLS. OUTDOOR UNITS SHALL HAVE FACTORY-WIRED TIME DELAYS, PRESSURE SWITCHES, LOW-AMBIENT CONTROLS AND DEFROST CONTROLS. THERMOSTATS SHALL BE DIGITAL AND PROGRAMMABLE WITH BATTERY BACK-UP. SETPOINTS SHALL FOLLOW DESIGN CONDITIONS OR BE AS DIRECTED BY THE OWNER. MOUNT ALL THERMOSTATS AND TEMPERATURE SENSORS 60" A.F.F.
14. THE HVAC SYSTEM SHALL BE TESTED AND BALANCED ACCORDING TO AABC STANDARDS. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A COPY OF THE TEST AND BALANCE REPORT AND THE OWNER WITH A LETTER STATING THAT THE SYSTEM(S) HAVE BEEN BALANCED TO WITHIN 10% OF DESIGN PARAMETERS.



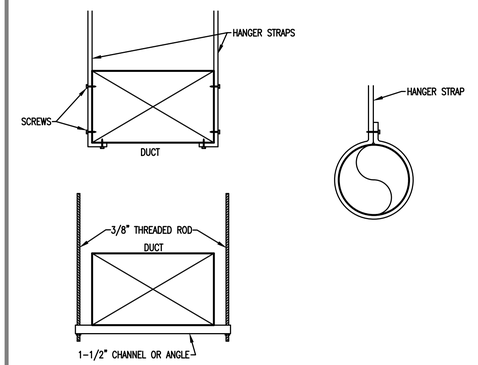
TYPICAL CEILING DIFFUSER DETAIL

NOT TO SCALE



TYPICAL FLEX DUCT TAKEOFF DETAIL

NOT TO SCALE



TYPICAL LOW-PRESSURE DUCT HANGERS

NOT TO SCALE

VENTILATION FAN SCHEDULE

MARK	CFM	S.P. "W.G.	MIN. POWER	VOLTAGE/ PHASE	MAX. RPM	MAX. SONES	FAN TYPE	DRIVE TYPE	EQUAL TO GREENHECK	CONTROL OR INTERLOCK	NOTES
EF-1,2,3	100	0.25	17 W	120/1	870	0.4	CENTRIF.	DIRECT	SP-A110	MOTION SENSOR	1, 2, 3
EF-4	80	0.25	17 W	120/1	870	0.4	CENTRIF.	DIRECT	SP-A90	LIGHT SWITCH	1, 2, 3

1. PROVIDE BACKDRAFT DAMPER, DISCONNECT, THERMAL OVERLOAD PROTECTION, ISOLATION KIT, MOUNTED FAN SPEED CONTROLLER.
2. MOTION SENSOR SHALL HAVE OVERRIDE CONTROL.
3. DISCHARGE EXHAUST DUCT THROUGH EXHAUST LOUVER IN EXTERIOR WALL.

AIR HANDLER SCHEDULE

UNIT NO.	SUPPLY AIR CFM	APPROX. E.S.P."W.G.	FAN H.P.	COOLING ENT AIR TEMP	COOLING LVG AIR TEMP	O.A. CFM	OUTDOOR TEMP-COOLING	ELEC HEAT (kW)	MCA	MOCP	VOLT/PHASE	REMARKS
AH-1,2,3	1500	0.50	3/4	77.1°FDB/65.6°FWB	55.7°FDB/54.1°FWB	200	93°FDB/79°FWB	5.76	43	45	208v/1ø	1, 2, 3, 5
AH-4,5	1100	0.50	1/2	77.1°FDB/65.6°FWB	55.7°FDB/54.1°FWB	150	93°FDB/79°FWB	5.76	40	40	208v/1ø	2, 3, 4, 5

REMARKS

1. AIR HANDLER BASIS OF DESIGN IS TRANE TEM6*48. PROVIDE TXV AND 7-DAY DIGITAL PROGRAMMABLE T'STAT WITH BATTERY BACK-UP.
2. PROVIDE 120v MOTORIZED DAMPER AND MANUAL BALANCING DAMPER IN ALL OUTSIDE AIR DUCTS. INSTALL DAMPERS AS CLOSE TO AIR HANDLER RETURN DUCT AS POSSIBLE.
3. PROVIDE AUXILIARY DRAIN PAN WITH FLOAT SWITCH UNDERNEATH AIR HANDLER. SPILL CONDENSATE IN EXTERIOR LANDSCAPED AREAS.
4. AIR HANDLER BASIS OF DESIGN IS TRANE TEM6*36. PROVIDE TXV AND 7-DAY DIGITAL PROGRAMMABLE T'STAT WITH BATTERY BACK-UP.
5. PROVIDE BIPOLAR IONIZATION SYSTEM EQUAL TO GPS AIR IN AIR HANDLER.

AIR COOLED HEAT PUMP SCHEDULE

UNIT NO.	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	LATENT COOLING (MBH)	COOLING STAGES	SEER2	OUTDOOR TEMP-COOLING (°FDB/°FWB)	FLA	MCA	MOCP	VOLT/PHASE	REMARKS
HP-1,2,3	46.9	32.8	14.1	2	16.0	93°FDB/79°FWB	23.3	28.0	45	208-230/1	1, 2
HP-4,5	35.7	24.9	10.7	2	16.0	93°FDB/79°FWB	16.1	20.0	35	208-230/1	1, 2

REMARKS

1. BASIS OF DESIGN IS TRANE 4TWR6 HEAT PUMP WITH ANTI-SHORT-CYCLE TIMER, LOW AMBIENT COOLING, EVAPORATOR DEFROST.
2. INSTALL HEAT PUMP ON MINIMUM 4" CONCRETE HOUSEKEEPING PAD.

DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

UNIT NO.	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	SEER	INDOOR TEMP COOL/HEAT	OUTDOOR TEMP COOL/HEAT	MITSUBISHI MDL NUMBER	MCA	MOCP	VOLT/PHASE	REMARKS
MSCU-A	22.5	–	20.5	80°FDB/70°FDB	95°FDB/47°FDB	MSY-GL24NA	17.1	20	208-230/1	1, 2, 3, 4

REMARKS

1. INSTALL UNIT ON MINIMUM 4" THICK CONCRETE HOUSEKEEPING PAD. SECURE UNIT TO PAD IN ACCORDANCE WITH FBC-BUILDING.
2. INDOOR UNITS CONNECTED TO THIS HEAT PUMP SHALL BE POWERED THRU HEAT PUMP VIA FACTORY CONTROL/POWER CABLING.
3. PROVIDE REFRIGERANT LINE COVER FOR LINES ROUTED OUTSIDE ON EXTERIOR WALL.
4. VERIFY EQUIPMENT LOAD IN ROOM WITH OWNER PRIOR TO INSTALLING MINI-SPLIT. IF MINI-SPLIT IS NOT SIZED PROPERLY FOR FINAL EQUIPMENT LOAD CONTACT ARCHITECT FOR DIRECTION.

DUCTLESS SPLIT-SYSTEM AIR HANDLER SCHEDULE

UNIT NO.	COOLING MBH	HEATING MBH	MITSUBISHI MDL NUMBER	CONNECTED COND UNIT	REFRIG TYPE	LOCATION ROOM NAME	MCA	MOCP	VOLT-PHASE	REMARKS
MSAH-A	22.5	–	MUY-GL24NA	CU-B	R410A	IT ROOM	1.00	15	208/230-1ø	1, 2, 3, 4

REMARKS

1. FAN SPEEDS SHALL BE SET TO THE SECOND HIGHEST SPEED SETTING.
2. PROVIDE INTEGRAL CONDENSATE PUMP, DISCHARGE INTO MOP SINK.
3. PROVIDE HAND-HELD REMOTE CONTROL WITH WALL BRACKET.
4. INDOOR UNITS CONNECTED TO THIS HEAT PUMP SHALL BE POWERED THRU HEAT PUMP VIA FACTORY CONTROL/POWER CABLING.

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"
LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

JONATHAN M. FEADER LICENSE NO. 60209 STATE OF FLORIDA PROFESSIONAL ENGINEER
December 23, 2024

DATE 12-23-2024
DRAWN JP REVIEWED JJ

REVISIONS

NO.	DATE	DESC.

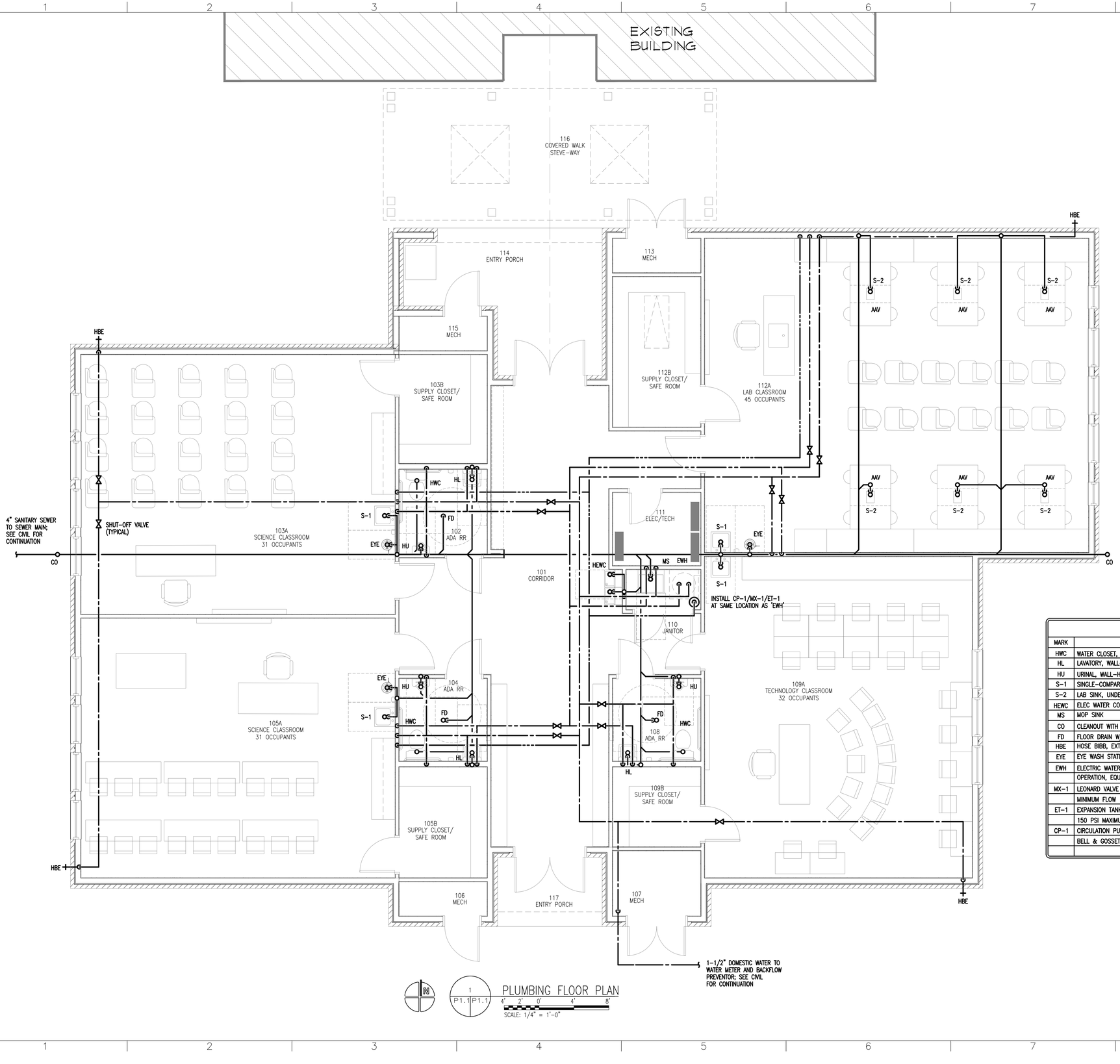
PROJECT # 2409

CONSTRUCTION DOCUMENTS
HVAC SCHEDULES, NOTES AND DETAILS
NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. M2.1

JOHNSON PEADEN ENGINEERING INC.
221 Hollywood Blvd NE, Ft Walton Beach, FL 32548, 850.244.6189V
1399-M Jenks Ave, Panama City, FL 32401, 850.215.4068V
Alabama #CD-2429-E, Arkansas #1654, Florida #00009014, Georgia #PEF003983, Louisiana #EF0006882
Mississippi #E-00000862, Missouri #2018035834, South Carolina #7058, Tennessee #7417, Texas #F-16637

JPE Job Number: 2439



PLUMBING LEGEND

	SOIL OR WASTE LINE
	VENT
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER RECIRC (HWR)
	GATE VALVE
	T & P RELIEF VALVE
AAV	AUTOMATIC AIR VENT
CO	FLOOR CLEANOUT
	SHOCK ABSORBER
	VENT THRU ROOF

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SANITARY	C.W.	H.W.
HWC	WATER CLOSET, FLOOR, TANK TYPE ADA COMPLIANT	3"	1/2"	–
HL	LAVATORY, WALL-HUNG WITH CARRIER, ADA COMPLAINT	1 1/4"	1/2"	1/2"
HU	URINAL, WALL-HUNG WITH CARRIER, SIPHON JET	2"	3/4"	–
S-1	SINGLE-COMPARTMENT SINK, WALL-HUNG WITH CARRIER	1 1/2"	1/2"	1/2"
S-2	LAB SINK, UNDER COUNTER	1 1/2"	1/2"	1/2"
HEWC	ELEC WATER COOLER, BI-LEVEL, ADA COMPLIANT	1-1/2"	1/2"	–
MS	MOP SINK	2"	1/2"	1/2"
CO	CLEANOUT WITH BRONZE PLUG	4"	–	–
FD	FLOOR DRAIN W/ TRAP PRIMER	3"	–	–
HBE	HOSE BIBB, EXTERIOR	–	3/4"	–
EYE	EYE WASH STATION WITH SHOWER, MIXING VALVE	–	3/4"	3/4"
EWH	ELECTRIC WATER HEATER, 50 GALLON, 12 kW NON-SIMULTANEOUS			
	OPERATION, EQUAL TO AO SMITH DEN-50; INSTALL ON STAND	–	3/4"	3/4"
MX-1	LEONARD VALVE TM-26-LF, 3/4" IN & OUT, MAX 5 PSI LOSS,			
	MINIMUM FLOW 1.0 GPM			
ET-1	EXPANSION TANK, 2.1 GALLON, 1.48 GALLON TANK ACCEPTANCE,			
	150 PSI MAXIMUM PRESSURE, EQUAL TO WATTS PLT-5			
CP-1	CIRCULATION PUMP, 6 GPM, 25' HEAD, 115V, 1/6 HP, EQUAL TO			
	BELL & GOSSETT MODEL PL-45			

1 P1.1 | P1.1

PLUMBING FLOOR PLAN

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

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ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"
LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

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NO. DATE DESC.

PROJECT # 2409

CONSTRUCTION DOCUMENTS

PLUMBING FLOOR PLAN

NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL 205 HAMILTON AVENUE

PANAMA CITY FLORIDA

SHEET NO. P1.1

JOHNSON PEADEN ENGINEERING INC.
221 Hollywood Blvd NE, Ft Walton Beach, FL 32548, 850.244.6189V
1399-M Jenks Ave, Panama City, FL 32401, 850.215.4068V
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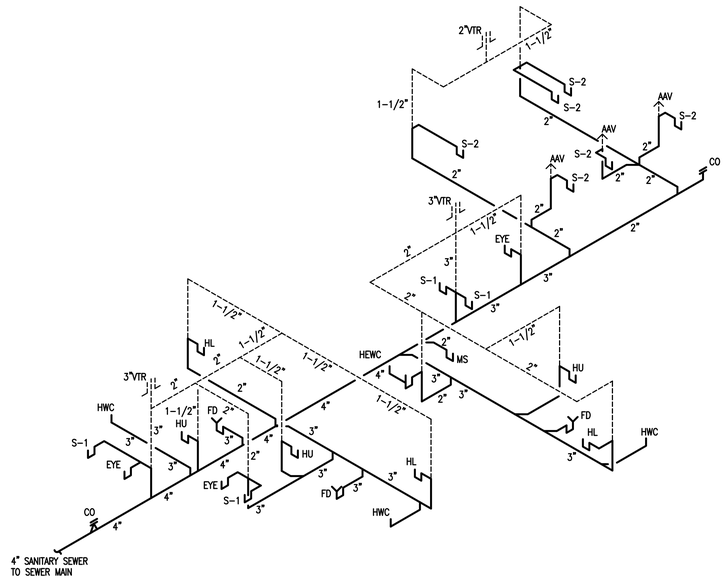
Mississippi #E-00000862, Missouri #2018035834, South Carolina #7058, Tennessee #7417, Texas #F-16637

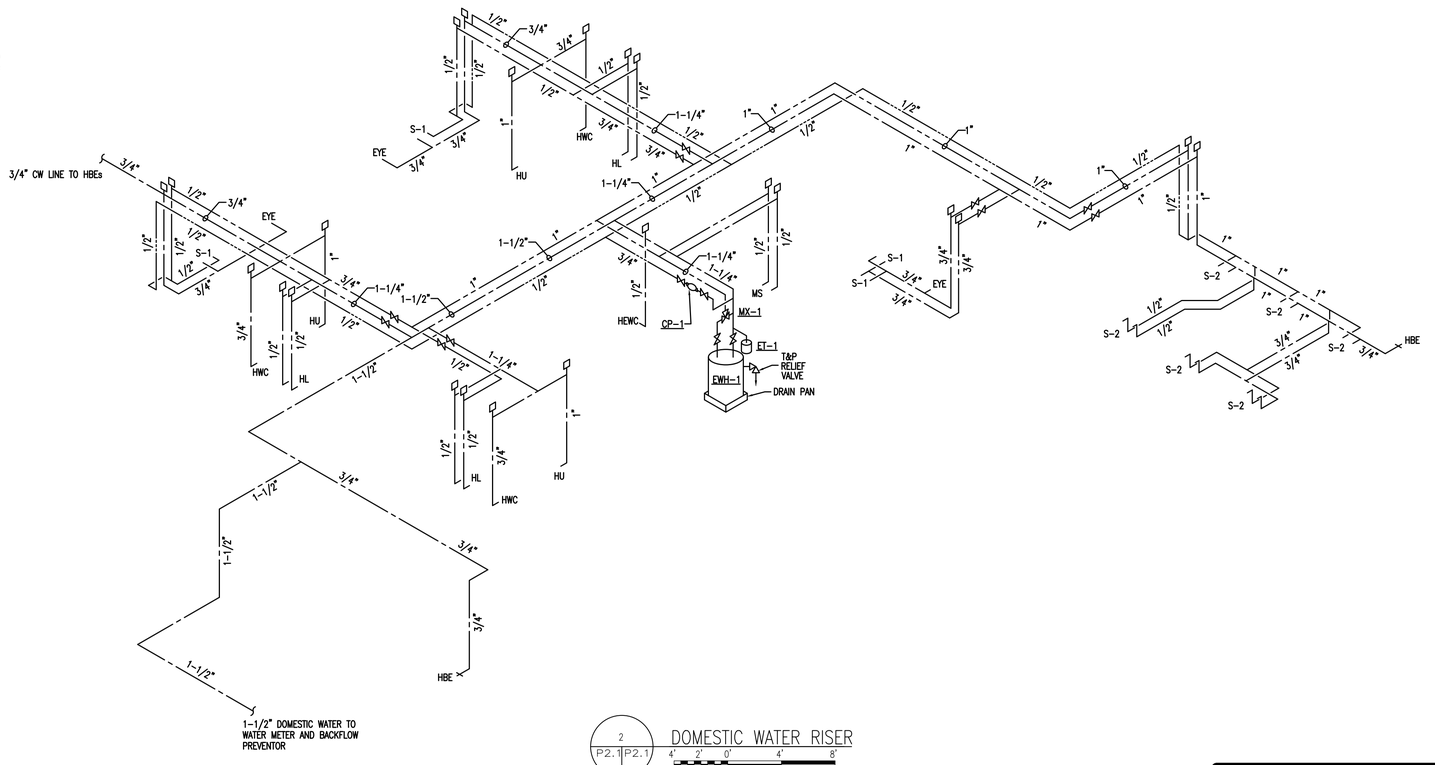
JPE Job Number: 2439



1 P2.1 P2.1 SANITARY SEWER RISER

4' 2' 0' 4' 8'

SCALE: NONE



2 P2.1 P2.1 DOMESTIC WATER RISER

4' 2' 0' 4' 8'

SCALE: NONE

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Ft Walton Beach, FL 32548
850.244.6189V

1399-M Jenks Ave
Panama City, FL 32401
850.215.4068V

Alabama #CD-2429-E
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VBA DESIGN, INC.
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2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
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JONATHAN M. PEADEN
LICENSE
NO. 60209
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PROFESSIONAL ENGINEER

December 23, 2024

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NO.	DATE	DESC.

PROJECT # 2409

CONSTRUCTION DOCUMENTS

PLUMBING RISERS

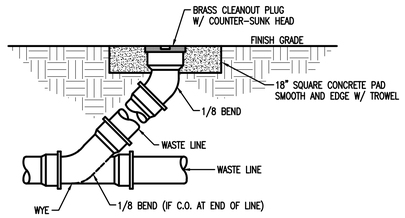
NEW STREAM BUILDING FOR HOLY NATIVITY EPISCOPAL SCHOOL 205 HAMILTON AVENUE

FLORIDA

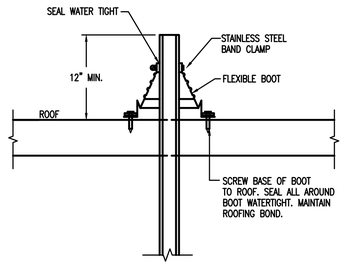
PANAMA CITY

SHEET NO. P2.1

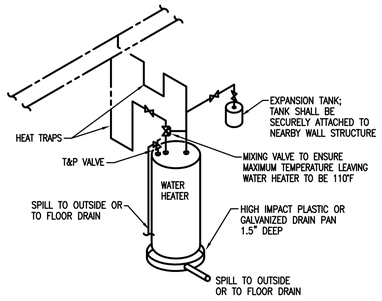
NOTE: IF CLEANOUT IS LOCATED INSIDE BUILDING, SET TOP LEVEL WITH CARPETING OR FLOORING MATERIAL.



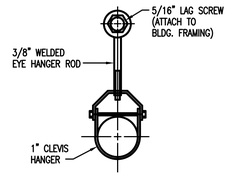
CLEANOUT DETAIL
NOT TO SCALE



VENT THROUGH ROOF DETAIL
NOT TO SCALE



DOMESTIC HOT WATER INSTALLATION DETAIL
NOT TO SCALE

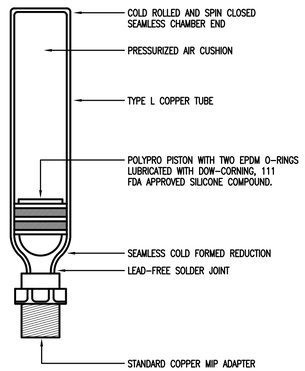


HANGER DETAIL (TYPICAL)
NO SCALE

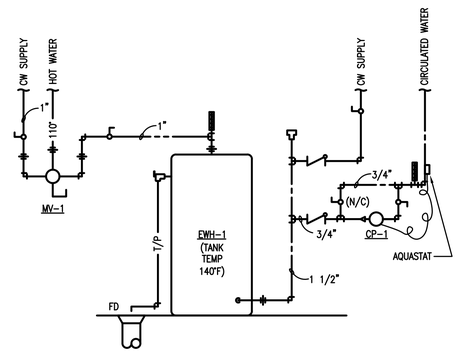
NOTE: USE APPROPRIATE HANGER AS APPROVED IN NFPA-13-A-3-15-1.

GENERAL PLUMBING NOTES

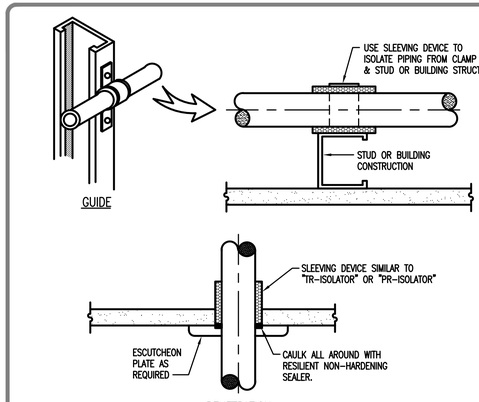
1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NEEDED TO PROVIDE A COMPLETE PLUMBING SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, WATER PIPING, WASTE AND VENT PIPING, AND ALL NECESSARY VALVES, TRAPS, AND ACCESSORIES.
2. ALL WORK SHALL BE PERFORMED BY SKILLED AND EXPERIENCE WORKMEN. WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PERMITS, LICENSES, AND INSPECTIONS.
3. ROUGH-INS SHALL BE MADE FROM ARCHITECTURAL DRAWINGS AND FIELD VERIFICATION, NOT FROM PLUMBING DRAWINGS AS THEY ARE ONLY SCHEMATIC. THIS CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND TAPS, AND FOR CHECKING ALL ELEVATIONS, GRADES, AND INVERTS BEFORE THE START OF CONSTRUCTION. IF UNSATISFACTORY CONDITIONS EXIST, NOTIFY THE ARCHITECT IMMEDIATELY.
4. THIS CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS TO AVOID CONFLICTS WITH OTHER TRADES. MAKE DEVIATIONS AS NECESSARY FROM THE WORK SHOWN ON THE DRAWINGS TO ENSURE THE WORK FITS THE SPACE(S) PROVIDED. NOTIFY THE ARCHITECT OF ALL NECESSARY DEVIATIONS.
5. IF NEW CONNECTIONS REQUIRE INTERRUPTION OF EXISTING SERVICES, ALL PREPARATORY WORK SHALL BE COMPLETED EARLY TO MINIMIZE TIME. WHERE POSSIBLE, PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN UTILITY SERVICE.
6. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT DEFECTS. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS. ALL WORK DONE BY THIS CONTRACTOR SHALL BE WARRANTED FOR ONE YEAR FROM THE TIME THE OWNER GIVES ACCEPTANCE OR GAINS BENEFICIAL USE, WHICHEVER IS FIRST.
7. ALL SANITARY AND VENT LINES SHALL BE HUBLESS CAST IRON PIPE CISPI 310-78 STANDARD WEIGHT WITH SPIGOT ENDS FOR COUPLING. HUBLESS CAST IRON JOINTS TO BE CISPI 310 STAINLESS STEEL SHIELD OVER ONE PIECE NEOPRENE SLEEVE. THIS CONTRACTOR MAY USE PVC PIPE AND FITTINGS CONFORMING TO ASTM D-2665 WHERE ALLOWED BY CODE.
8. ROOF PENETRATIONS SHALL BE FLASHED AND MADE WATER-TIGHT IN A MANNER APPROVED BY THE MANUFACTURER OF THE ROOFING MATERIAL AND COMPLYING WITH ARCHITECTURAL REQUIREMENTS.
9. PROVIDE CLEANOUTS WHERE INDICATED ON PLANS AND AS NECESSARY TO COMPLY WITH THE STANDARD PLUMBING CODE. ALL CLEANOUTS SHALL BE IN ACCESSIBLE LOCATIONS.
10. INSULATE ALL DOMESTIC WATER PIPING ABOVE GRADE WITH 3/4" THICK FLEXIBLE CLOSED-CELL POLYETHYLENE INSULATION. SEAL ALL JOINTS AND SEAMS AND INSULATE FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
11. HANGERS FOR EQUIPMENT AND PIPING SHALL BE SECURED TO THE BUILDING STRUCTURE. NO HANGERS SHALL BE ATTACHED TO THE FLOOR OR ROOF DECK MATERIAL, OR CONCRETE DECKS LESS THAN 4" THICK.
12. INSTALL SHOCK ABSORBERS VERTICALLY AT EACH FIXTURE. OFFSET AS NEEDED TO GAIN A MINIMUM HEIGHT OF 18". ALL SHOCK ABSORBERS SHALL BE A MINIMUM OF ONE PIPE SIZE LARGER THAN THE BRANCH BEING SERVED.
13. PROVIDE CHROME PLATED BRASS ESCUTCHEON PLATES AT ALL PENETRATIONS OF WALLS, FLOORS OR CEILINGS IN FINISHED AREAS AND UNDER LAVATORIES. PROVIDE STOPS AND TRAPS FOR ALL FIXTURES.
LEAK TEST WATER PIPING, FOR NOT LESS THAN 90 MINUTES AT 100 PSI. FILL SANITARY SEWER SYSTEM TO A MINIMUM HEIGHT OF TEN FEET AND LET STAND FOR AT LEAST 30 MINUTES WITHOUT LEAKAGE.
AFTER PRESSURE TESTS HAVE BEEN MADE, THOROUGHLY FLUSH THE ENTIRE DOMESTIC WATER SYSTEM WITH WATER UNTIL ALL ENTRAINED DIRT AND MUD HAVE BEEN REMOVED, AND STERILIZE. THE STERILIZING MATERIAL SHALL BE EITHER LIQUID CHLORINE CONFORMING THE FED. SPEC. BB-C-120, OR HYPOCHLORITE CONFORMING TO FED. SPEC. O-C-114, OR FED. SPEC. O-S-602M. THE CHLORINATING AGENT SHALL PROVIDE A MINIMUM DOSAGE OF 50 PPM AND SHALL BE RETAINED IN THE SYSTEM FOR 90 MIN. THE SYSTEM WILL THEN BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE RESIDUAL CHLORINE IS REDUCED TO LESS THAN 1.0 PPM. HAVE THREE STATE-APPROVED INDEPENDENT TESTING FACILITIES TAKE SAMPLES AND DELIVER CERTIFICATES OF APPROVAL TO THE OWNER. ANY NEGATIVE RESULTS MUST BE INVESTIGATED, AND IF NECESSARY CORRECTED, BEFORE THE BUILDING MAY BE ACCEPTED.



WATER HAMMER ARRESTER
NOT TO SCALE



ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



PENETRATION

DETAIL OF CONSTRUCTION PENETRATIONS & GUIDES FOR CONTROL OF PLUMBING NOISE & VIBRATION
NO SCALE

JOHNSON PEADEN ENGINEERING INC.
221 Hollywood Blvd NE
Ft Walton Beach, FL 32548
850.244.6189V
Alabama #CD-2429-E
Arkansas #1654
Florida #00009014
Georgia #PEF003983
Louisiana #EF0006882
1399-M Jenks Ave
Panama City, FL 32401
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CONSTRUCTION DOCUMENTS
PLUMBING NOTES AND DETAILS
NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. P2.2

WARNING

Arc Flash Hazard
Appropriate PPE Required

Do not operate controls or open covers without appropriate personal protection equipment.
Failure to comply may result in injury or death!

REFER TO NFPA 70E FOR MINIMUM PPE REQUIREMENTS

TYPICAL ARC FLASH HAZARD LABEL DETAIL

NOT TO SCALE

ARC FLASH LABEL DETAIL NOTES:

1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ALL PANEL AND SWITCHBOARDS IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.
2. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, VENDOR, OR CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL PANELS AND SWITCHBOARDS ARE LABELED IN THE FIELD.
3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

1/2" LETTERS

PANEL LA

208Y/120 VOLTS
3 PHASE 4 WIRE
SERVED FROM PANEL MP
IN ELEC RM
10,000 AIC RATING

1/4" LETTERS

TYPICAL ELECTRICAL EQUIPMENT IDENTIFICATION DETAIL

NOT TO SCALE

ELECTRICAL EQUIPMENT IDENTIFICATION DETAIL NOTES:

1. MECHANICALLY AFFIX NAMEPLATE TO PANELBOARDS, CONTROL PANELS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS OR SIMILAR DEVICES.
2. LETTERS SHALL BE WHITE ON BLACK BACKGROUND; SIZE OF LETTERS INDICATED ON DETAIL.
3. INFORMATION IN LABEL IS A GENERIC EXAMPLE – DESIGNATE EQUIPMENT IN A SIMILAR WAY USING RELEVANT INFORMATION (NAME OF PANEL, VOLTS, PHASE, LOCATION, AIC RATING ETC.) ACCORDING TO EACH INDIVIDUAL LOCATION OF EQUIPMENT.

WARNING

MAXIMUM AVAILABLE FAULT CURRENT: _____
NOMINAL SYSTEM VOLTAGE: _____
CLEARING TIME OF OCPD(s): _____
DATE OF LABEL ON: _____
INSTALLING ELECTRICAL CONTRACTOR NAME, ADDRESS & PHONE NUMBER

ORANGE BACKGROUND WITH BLACK LETTERS

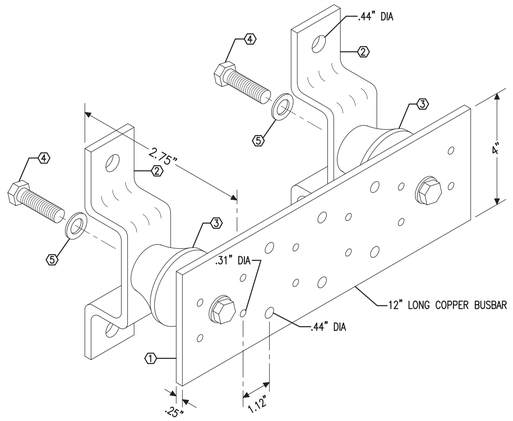
WHITE BACKGROUND WITH BLACK LETTERS

TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL

NOT TO SCALE

SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL NOTES:

1. PROVIDE 4" HIGH X 6" WIDE VINYL LABEL WITH BLACK LETTERING PER ANSI Z535
2. LABEL SHALL MEET NEC 110.24 REQUIREMENTS



TYPICAL GROUND BUS BAR DETAIL

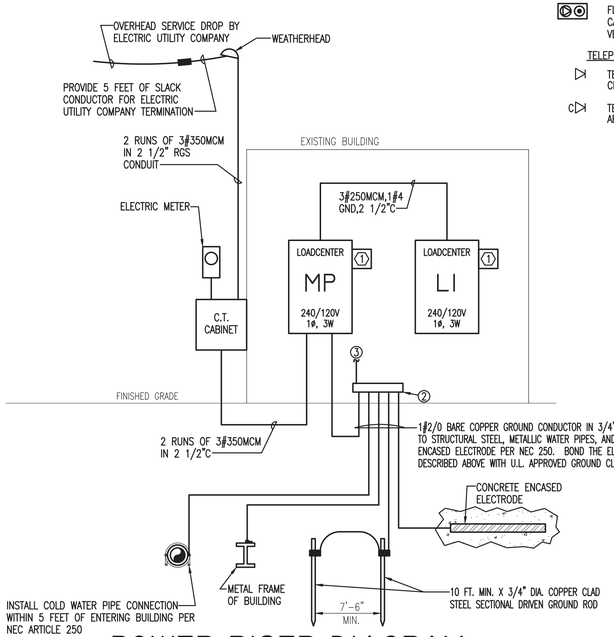
NOT TO SCALE

GROUND BAR GENERAL NOTES:

1. INSTALL GROUND BUS BAR ON COMMUNICATIONS BACKBOARD IN COMMUNICATIONS ROOM AND ELECTRICAL SERVICE ENTRANCE. MOUNT BUS BAR AT 18" AFF.
2. INSTALL 1#3/0 COPPER CONDUCTOR IN 1" CONDUIT TO EACH GROUND BUS BAR FROM THE MAIN GROUND BUS BAR. INSTALL A #3/0 COPPER GROUND FROM THE MAIN BUS BAR TO THE ELECTRICAL SERVICE GROUND.

GROUND BAR MATERIALS:

① TIN PLATED HIGH CONDUCTIVE COPPER GROUND BAR
② WALL MOUNTING BRACKET
③ INSULATORS
④ 3/8" CAP SCREWS
⑤ 3/8" LOCKWASHERS



POWER RISER DIAGRAM

NOT TO SCALE

POWER RISER DIAGRAM KEYNOTES:

① PROVIDE INTEGRAL SURGE SUPPRESSOR DEVICE IN PANEL WITH 40KA PER MODE/ 80KA PER PHASE, INDICATING LIGHTS AND ALARM SURGE COUNTER. SURGE SUPPRESSOR SHALL BE EQUAL TO EATON SPC SERIES, VERIFY VOLTAGE AND PHASES. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

② SERVICE GROUND BUS BAR; SEE TYPICAL GROUND BUS BAR DETAIL

③ #3/0 BARE COPPER GROUND CONDUCTOR IN 1" PVC CONDUIT TO TELE/DATA BACKBOARD ON 1ST FLOOR

ELECTRICAL LEGEND

CEILING OUTLETS

"A" (2) RECESSED 2' X 4' FLUORESCENT FIXTURE MARK "A" CIRCUIT No. 2 TYPICAL

INDICATES FIXTURE WITH EMERGENCY UNIT BATTERY PACK

EXIT LIGHT

(J) JUNCTION BOX

EF EXHAUST FAN

WALL OUTLETS

DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; TAMPER RESISTANT

G DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; TAMPER RESISTANT

WP DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; PROVIDE WEATHERPROOF BOX WITH EXTRA DUTY COVER IN ACCORDANCE WITH NEC 406.9(B) FOR RECEPTACLE TAMPER RESISTANT

QUADRUPLEX RECEPTACLE – (2) 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE; TAMPER RESISTANT

DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER; TAMPER RESISTANT

G DUPLEX RECEPTACLE – 20 AMP, 125 VOLT, GFI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER; TAMPER RESISTANT

JUNCTION BOX WITH BLANK SCREW COVER AND FLEXIBLE CONDUIT CONNECTION

WALL MOUNTED LED AREA LIGHT FIXTURE

(P) SIDEWALL PHOTOCELL EQUAL TO TORK #2101 (120V)

WALL MOUNTED EXIT LIGHT

WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)

S A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT

S_3 A.C. TYPE, 3-WAY, 20 AMP, 120/277 VOLT

S_R WALL MOUNTED OCCUPANCY SENSOR; DUAL TYPE (INFRARED AND ULTRASONIC) TECHNOLOGY; MOUNT 48" AFF TO C/L; EQUAL TO WATTSTOPPER DW-100

S_{RD} WALL MOUNTED OCCUPANCY SENSOR; DUAL TYPE (INFRARED AND ULTRASONIC) TECHNOLOGY; MOUNT 48" AFF TO C/L; EQUAL TO WATTSTOPPER DW-311

MISCELLANEOUS

A.F.F. ABOVE FINISH FLOOR

WP WEATHERPROOF

U.N.O. UNLESS NOTED OTHERWISE

FLOOR BOX WITH RECEPTACLE AND TELECOMM; SELECTION OF MATERIAL & COLOR BY ARCHITECT; CARLON E976 SERIES; SUPPLY ALL ACCESSORIES AS REQUIRED FOR A FINISHED INSTALLATION. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN

TELEPHONE SYSTEM

TELECOMMUNICATIONS OUTLET AT 18" AFF; STUB 3/4"C WITH PULL STRING TO ABOVE ACCESSIBLE CEILING.

C TELECOMMUNICATIONS OUTLET AT 6" ABOVE COUNTERTOP; STUB 3/4"C WITH PULL STRING TO ABOVE ACCESSIBLE CEILING.

FIRE ALARM/VOICE EVACUATION SYSTEM

F FIRE ALARM/VOICE EVAC SYSTEM MANUAL PULL STATION; MT 48" AFF TO C/L

FH FIRE ALARM SYSTEM SIGNAL HORN/STROBE; MT 80" AFF TO BOTTOM OF HORN/STROBE.

WP FH WEATHERPROOF FIRE ALARM SYSTEM SIGNAL HORN; MOUNT 80" AFF TO BOTTOM

FH FIRE ALARM EVAC SYSTEM STROBE; MT. 80" AFF TO C/L.

H FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED

FIRE ALARM/VOICE EVAC SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED

D FIRE ALARM SYSTEM AUTOMATIC AIR DUCT SMOKE DETECTOR MOUNTED IN AIR DUCT

R NORMALLY CLOSED RELAY IN H.V.A.C CONTROL CIRCUIT TO OPEN UPON ACTUATION OF BUILDING FIRE ALARM SYSTEM TO SHUT DOWN A/C UNIT. CONTACTS RATED 5 AMPS, 120 VOLTS.

F FIRE ALARM SYSTEM RACEWAY INSTALLED CONCEALED; ARROW INDICATES HOMERUN TO FIRE ALARM CONTROL PANEL

FS FIRE ALARM SYSTEM FLOW SWITCH

TS FIRE ALARM SYSTEM TAMPER SWITCH

PANELS AND POWER

120/208 VOLT PANELBOARD

M MOTOR – SIZE AND CHARACTERISTICS AS NOTED

NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING

BRANCH CIRCUITING

RUN CONCEALED UNDER FLOOR OR IN GRADE

RUN CONCEALED IN CEILING OR WALLS

LA-1 HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND – 1/2" C; ~~2 #12~~ – 3 #12, 1 #12 GROUND – 1/2" C; ~~3 #12~~ – 4 #12, 1 #12 GROUND – 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.

LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION

SURFACE MOUNTED CONDUIT; RUN PARALLEL OR PERPINDICULAR TO BUILDING LINES

LIGHTING CONTROLS

R CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO WATTSTOPPER LMPC-100-5; INFRARED TECHNOLOGY, SEE LIGHTING CONTROL DETAILS

P POWER PACK RELAY EQUAL TO WATTSTOPPER BZ150; INSTALL IN ACCESSIBLE LOCATION FOR MAINTENANCE PURPOSES

RC1 ROOM CONTROLLER WITH DIMMING CONTROLS EQUAL TO WATTSTOPPER LMRC-211; 1 20 AMP CONTACTS, 0-10V CONTROLS; SEE CEILING MOUNTED MOTION DETECTOR DETAIL

RC2 ROOM CONTROLLER WITH DIMMING CONTROLS EQUAL TO WATTSTOPPER LMRC-212; 1 20 AMP CONTACTS, 0-10V CONTROLS; SEE CEILING MOUNTED MOTION DETECTOR DETAIL

SLM1 DLM PROGRAMMABLE WALL SWITCH (MOUNT 48" AFF TO CENTERLINE) EQUAL TO LEGRAND LMSW-101; 2 BUTTON

SLM4 DLM PROGRAMMABLE WALL SWITCH (MOUNT 48" AFF TO CENTERLINE) EQUAL TO LEGRAND LMSW-241; 4 BUTTONS 1 ROCKER SWITCH; MULTI-ZONE SCENE DIMMING CONTROL

ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
3. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
4. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
5. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
6. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, DISCONNECTS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
7. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
8. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
9. FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
10. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
11. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
12. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS/DISCREPANCIES BETWEEN DISCIPLINES BEFORE ORDERING EQUIPMENT/MATERIALS.
13. DECORATIVE COVER PLATES FOR RECEPTACLE OUTLETS, SWITCHES, ETC. SHALL BE STAINLESS STEEL; REFER TO ELECTRICAL SPECIFICATIONS
14. INSTALL OCCUPANCY SENSORS AND ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS. ALL CONDUCTORS (INCLUDING CONTROLS) ASSOCIATED WITH OCCUPANCY SENSORS AND POWER PACKS SHALL BE INSTALLED IN 1/2" CONDUIT MINIMUM.
15. ELECTRICAL CONTRACTOR SHALL PAINT AND LABEL ALL JUNCTION BOXES TO IDENTIFY PANEL AND CIRCUIT; SEE ELECTRICAL SPECIFICATIONS.
16. ALL CONDUCTORS INDICATED ON PLAN SHALL BE COPPER.
17. EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED IN ALL BRANCH CIRCUIT WIRING. CONDUIT GROUND SHALL NOT BE ACCEPTABLE.
18. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
19. ALL CONDUCTORS LESS THAN 100A. SHALL BE COPPER #12 & #10 SOLID, #8 AND LARGER STRANDED, 600 VOLT INSULATION
20. EQUIVALENT ALUMINUM CONDUCTORS ARE ACCEPTABLE FOR CONDUCTORS 100 AMPS AND ABOVE.

Raymond Q. Yates
Digitally signed by Raymond Q Yates
Date: 2025.01.09 11:01:21 -06'00'

YATES ENGINEERING SOLUTIONS
7159 Blue Jack Dr.
Navarre, FL 32566
FSPE Authorization No. 30242
Phone: (850)512-9579
Email: quinn@yateseseng.com
FL PE No: 80826

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY R.Q. YATES, PE ON 1/9/2025 USING A SHA AUTHENTICATION CODE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

RAYMOND Q. YATES CERTIFICATE NO. 80826 STATE OF FLORIDA 1-9-2025 PROFESSIONAL ENGINEER

DATE	1-9-2025
DRAWN	QY
REVIEWED	QY

REVISIONS NO.	DATE	DESC.

PROJECT # 2409

CONSTRUCTION DOCUMENTS

ELECTRICAL LEGEND, NOTES & RISER DIAGRAM

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

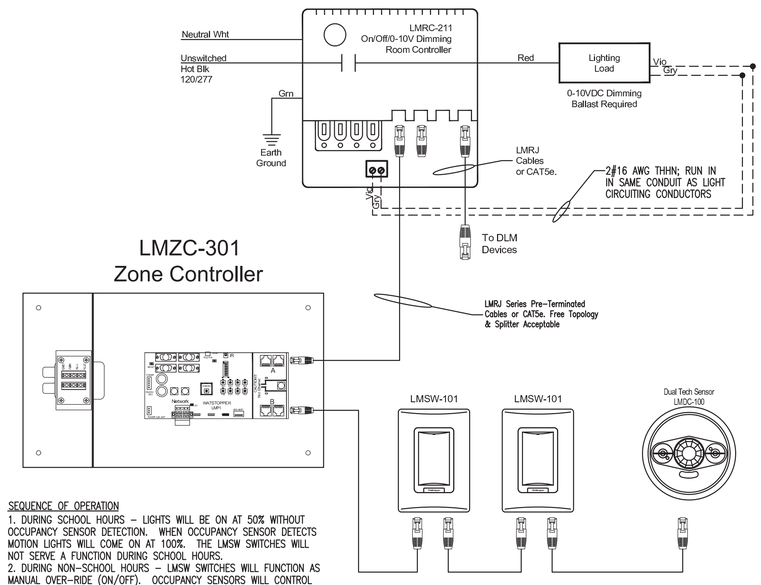
SHEET NO. E0.1

MANUFACTURERS CONSIDERED EQUAL MUST SUBMIT TO ENGINEER 14 DAYS PRIOR TO BID FOR APPROVAL

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No. (or approved equal)	LAMPS No.	LAMPS TYPE	MOUNTING	REMARKS
BPC	CHLORIDE CLUR3-N-W	THREE 2.2W DC LED		CEILING RECESSED	RECESSED COMPACT EMERGENCY LIGHTING UNIT WITH BATTERY BACKUP
EM2	H.E. WILLIAMS WETDRHL-T-WHT-MV	TWO 1W LED HEADS		WALL ABOVE DOOR	WET LOCATION DUAL HEAD REMOTE HEAD; CONNECT TO REMOTE BATTERY IN FIXTURE XR
L14S	H.E. WILLIAMS PTS-14-L45-835-SA-DIM-UNV	34W LED ARRAY 44500 LUMEN/3500K		CEILING SURFACE	1X4 SHALLOW SURFACE MOUNT LED
L22S	H.E. WILLIAMS PTS-22-L47-835-SA-DIM-UNV	38W LED ARRAY 4700 LUMEN/3500K		CEILING SURFACE	2X2 SHALLOW SURFACE MOUNT LED
LID24	FINELITE S19-P-ID-24'-2E-H-835-OPEN-120V-SC-FC1%-FA50-C4-FE-SW	160W LED ARRAY 21,744 LUMEN/3500K		CEILING PENDANT AT 10'-0" AFF	LOW PROFILE LED PENDANT LUMINAIRE
LID24E	FINELITE S19-P-ID-24'-2E-H-835-OPEN-120V-SC-FC1%-FA50-C4-FE-SW-LGD10W	160W LED ARRAY 21,744 LUMEN/3500K		CEILING PENDANT AT 10'-0" AFF	LOW PROFILE LED PENDANT LUMINAIRE, PROVIDE 10W EMERGENCY UNIT BATTERY PACK
LS4	H.E. WILLIAMS 76R-4-L52-835-DIM-UNV	36W LED ARRAY 5200 LUMEN/3500K		CEILING SURFACE	4 FT LED STRIP FIXTURE WITH ROUND LENS
LS4E	H.E. WILLIAMS 76R-4-L52-835-DIM-UNV-EM/10W	36W LED ARRAY 5200 LUMEN/3500K		CEILING SURFACE	4 FT LED STRIP FIXTURE WITH ROUND LENS WITH 10W EMERGENCY UNIT BATTERY PACK
PD14	FINELITE E3-PWWD-14-H-835-F96LG-120-SC-FE	56W LED ARRAY 5796 LUMENS/3500K		CEILING PENDANT AT 10'-0" AFF	14 FT LINEAR LED WALL WASH FIXTURE
SF	FC LIGHTING FCW3050-UNV-4K-CRI85-36L-(FINISH)-LD	43W LED ARRAY 3600 LUMENS/3500K		CEILING SURFACE	10" ROUND LED FIXTURE WITH IP65 RATING, 120V
SFE	FC LIGHTING FCW3050-UNV-4K-CRI85-36L-(FINISH)-LD-EB/7W	43W LED ARRAY 3600 LUMENS/3500K		CEILING SURFACE	10" ROUND LED FIXTURE WITH IP65 RATING, 120V, EMERGENCY UNIT BATTERY PACK
SM	CAMMAN P1044-18-LN-35K-CLV-MV-WM-(FINISH)-ACC-OAH18	70W LED ARRAY 6000 LUMEN/3500K		CEILING SURFACE	18" LED DECORATIVE RING FIXTURE
SMW	CAMMAN P1044-18-LD-40K-CLV-MV-WM-(FINISH)-WET	70W LED ARRAY 6000 LUMEN/3500K		CEILING SURFACE	18" LED DECORATIVE RING FIXTURE, WET LOCATION
WB	H.E. WILLIAMS VWPH-L30-740-T3-(FINISH)-SDGL-DIM-UNV	36W LED ARRAY 3000 LUMEN/4000K		WALL @ 9'-0" AFF	LED WALL MOUNTED AREA LIGHT
X	H.E. WILLIAMS EXIT-R-EM-WHT-SDT	LED		WALL ABOVE DOOR	LED EXIT LIGHT WITH THERMOPLASTIC HOUSING, EMERGENCY BATTERY BACKUP, PROVIDE DIRECTIONAL ARROWS AS INDICATED, 120V, SELF TEST DIAGNOSTICS
XR	H.E. WILLIAMS EXIT/REMOTE-R-WHT-D	LED		WALL ABOVE DOOR	LED EXIT LIGHT WITH THERMOPLASTIC HOUSING, EMERGENCY BATTERY BACKUP, PROVIDE DIRECTIONAL ARROWS AS INDICATED, 120V, SELF TEST DIAGNOSTICS, 11 WATT REMOTE BATTERY FOR FIXTURE EM2

NOTE:
1. FINISHES OF ALL FIXTURES SHALL BE SELECTED BY ARCHITECT



SEQUENCE OF OPERATION

1. DURING SCHOOL HOURS – LIGHTS WILL BE ON AT 50% WITHOUT OCCUPANCY SENSOR DETECTION. WHEN OCCUPANCY SENSOR DETECTS MOTION LIGHTS WILL COME ON AT 100%. THE LMSW SWITCHES WILL NOT SERVE A FUNCTION DURING SCHOOL HOURS.
2. DURING NON-SCHOOL HOURS – LMSW SWITCHES WILL FUNCTION AS MANUAL OVER-RIDE (ON/OFF). OCCUPANCY SENSORS WILL CONTROL LIGHTS AT 100% (ON/OFF).

CORRIDOR LIGHTING CONTROL DIAGRAM

NOT TO SCALE

120/240 VOLT 1ø 3W
600 AMP MAIN BREAKER

CIRCUIT BREAKER PANEL SCHEDULE
PANEL MP

SURFACE MOUNTED

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	LOAD KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	AH-1	2	45①	7.20	4.85	45①	2	HP-1	2
3	↑	↑	↑			↑	↑	↑	4
5	AH-2	2	45①	7.20	4.85	45①	2	HP-2	6
7	↑	↑	↑			↑	↑	↑	8
9	AH-3	2	45①	7.20	4.85	45①	2	HP-3	10
11	↑	↑	↑			↑	↑	↑	12
13	AH-4	2	40①	6.78	3.35	35①	2	HP-4	14
15	↑	↑	↑			↑	↑	↑	16
17	AH-5	2	40①	6.78	3.35	35①	2	HP-5	18
19	↑	↑	↑			↑	↑	↑	20
21	ELECTRIC WATER HEATER	2	70①	12.00	3.28	20①	2	MSCU-A	22
23	↑	↑	↑			↑	↑	↑	24
25	SPARE	2	60			30	2	SPARE	26
27	↑	↑	↑			↑	↑	↑	28
29	SPACE	1	--			--	1	SPACE	30
31	SPACE	1	--			--	1	SPACE	32
33	SPACE	1	--			--	1	SPACE	34
35	SPACE	1	--			--	1	SPACE	36
37	SPACE	1	--			--	1	SPACE	38
39	PANEL L1	2	250	48.63		--	1	SPACE	40
41	↑	↑	↑			--	1	SPACE	42

TOTAL CONNECTED LOAD: 120.32 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED

120/240 VOLT 1ø 3W
225 AMP M.L.O.

CIRCUIT BREAKER PANEL SCHEDULE
PANEL LI

SURFACE MOUNTED

CKT	LOAD DESCRIPTION	BREAKER POLE	BREAKER AMP	LOAD KVA		BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION	CKT
1	REC-SCIENCE CLASSRM 112A	1	20	.54	1.08	20	1	REC-SCIENCE CLASSRM 103A	2
3	REC-SMARTBRD CLASSRM 112A	1	20	1.0	1.0	20	1	REC-SMARTBRD CLASSRM 112A	4
5	REC-SCIENCE CLASSRM 112A	1	20	.72	.54	20	1	REC-SCIENCE CLASSRM 103A	6
7	REC-SCIENCE CLASSRM 112A	1	20	.54	.54	20	1	REC-SCIENCE CLASSRM 105A	8
9	REC-CLASSRM 112A FUME HOOD	1	20	1.0	1.0	20	1	REC-SMARTBRD CLASSRM 105A	10
11	REC-SCIENCE CLASSRM 112A	1	20	.72	1.08	20	1	REC-SCIENCE CLASSRM 105A	12
13	REC-SCIENCE CLASSRM 112A	1	20	.54	1.0	20	1	REC-SUPPLY CLOSET 103B	14
15	REC-TECH CLASSRM 109A	1	20	1.26	1.0	20	1	REC-SUPPLY CLOSET 103B	16
17	REC-TECH CLASSRM 109A	1	20	.54	1.0	20	1	REC-SUPPLY CLOSET 103B	18
19	REC-SMARTBRD CLASSRM 109A	1	20	1.0	1.0	20	1	REC-SUPPLY CLOSET 103B	20
21	REC-SUPPLY CARPET 112B	1	20	1.0	1.0	20	1	REC-SUPPLY CLOSET 103B	22
23	REC-SUPPLY CARPET 112B	1	20	1.0	1.0	20	1	REC-SUPPLY CLOSET 105B	24
25	REC-SUPPLY CARPET 112B	1	20	1.0	1.0	20	1	REC-SUPPLY CLOSET 105B	26
27	REC-SUPPLY CARPET 112B	1	20	1.0	1.0	20	1	REC-SUPPLY CLOSET 105B	28
29	REC-SUPPLY CARPET 112B	1	20	1.0	1.0	20	1	REC-SUPPLY CLOSET 105B	30
31	REC-SUPPLY CARPET 109B	1	20	1.0	1.0	20	1	REC-SUPPLY CLOSET 105B	32
33	REC-SUPPLY CARPET 109B	1	20	1.0	1.26	20	1	REC-PORCH,CLOSET,RESTRMS	34
35	REC-SUPPLY CARPET 109B	1	20	1.0	1.20	20	1	REC-DRINKING FOUNTAIN	36
37	REC-SUPPLY CARPET 109B	1	20	1.0	2.50	30	1	UPS RECEPTACLE	38
39	REC-SUPPLY CARPET 109B	1	20	1.0	.72	20	1	REC-TBB	40
41	FIRE ALARM CONTROL PANEL	1	20①	.20	.36	20	1	ACCESS CONTROL PANEL	42
43	DOOR LOCK-NORTH DOOR	1	20	.20	1.26	20	1	REC-CLOSET,RESTRM,MECH,EXTR	44
45	DOOR LOCK-SOUTH DOOR	1	20	.20	1.0	20	1	VENDING MACHINE	46
47	REC-CORRIDOR	1	20	.72	.20	20	1	CIRCULATION PUMP	48
49	LTS-EXTERIOR	1	20	.74	.70	20	1	LTS-CLASSRM 103A,RESTRM,SUP	50
51	LTS-CLASSRM 105A,RESTRM,SUP	1	20	.70	.70	20	1	LTS-CLASSRM 112A,RESTRM,SUP	52
53	LTS-CLASSRM 105A,RESTRM,SUP	1	20	.70	.55	20	1	LTS-CORRIDOR	54
55	REC-TECH CLASSRM 109A	1	20	.36	.36	20	1	REC-TECH CLASSRM 109A	56
57	REC-TECH CLASSRM 109A	1	20	.18	.72	20	1	FLOOR REC-TECH CLSSRM 109A	58
59		1	20			20	1	SPARE	60
61	SPARE	1	20			20	1	SPARE	62
63	SPARE	1	20			20	1	SPARE	64
65	SPARE	1	20			20	1	SPARE	66
67	SPARE	1	20			20	1	SPARE	68
69	SPACE	1	--			--	1	SPACE	70
71	SPACE	1	--			--	1	SPACE	72

TOTAL CONNECTED LOAD: 48.63 KVA
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① PROVIDE HANDLE LOCK-ON BREAKER

YATES ENGINEERING SOLUTIONS
7159 Blue Jack Dr.
Navarre, FL 32566
FSPE Authorization No. 30242
Phone: (850)512-9579
Email: quinn@yateseng.com
FL PE No: 60826

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

RAYMOND D. YATES
CERTIFICATE
No. 60826
STATE OF
FLORIDA
1-9-2025
PROFESSIONAL ENGINEER

DATE 1-9-2025
DRAWN QY REVIEWED QY

REVISIONS NO.	DATE	DESC.

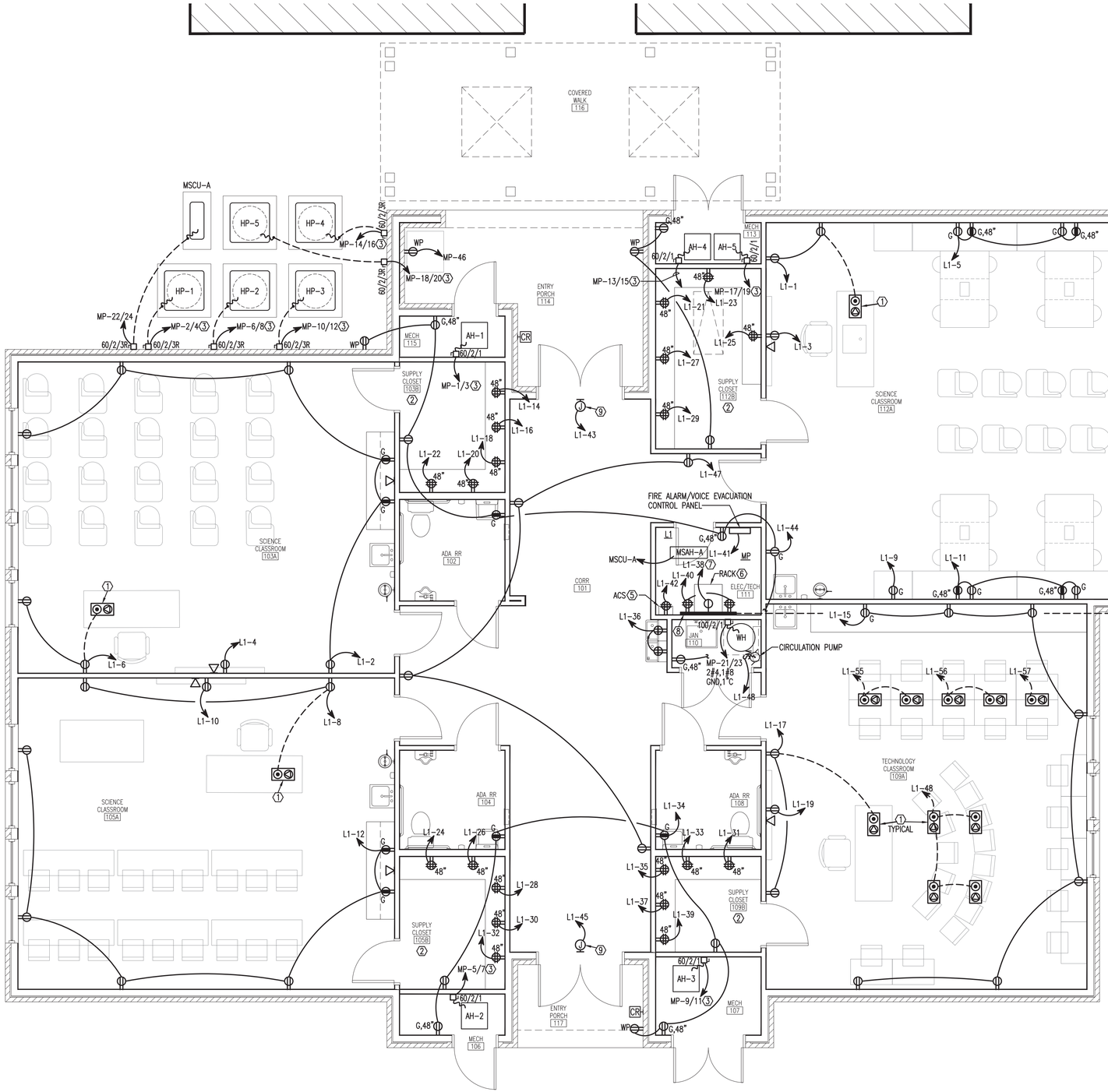
PROJECT # 2409

CONSTRUCTION DOCUMENTS

SCHEDULES & DETAILS

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. E0.2



KEYNOTES:

1. COORDINATE FLOOR BOX LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. TYPICAL FOR ALL FLOOR BOXES.
2. RECEPTACLES IN SUPPLY CLOSET ARE FOR CHARGING LAPTOPS; COORDINATE LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
3. 2#8,1#10 GND,3/4"C
4. JUNCTION BOX FOR DOOR LOCK POWER SUPPLY; INSTALL ABOVE CEILING; COORDINATE LOCATION WITH SECURITY DOOR INSTALLER; FURNISH AND INSTALL ALL SECURITY DOOR DEVICES AND CONDUIT
5. OWNER FURNISHED ACCESS CONTROL PANEL; VERIFY ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN
6. OWNER FURNISHED COMMUNICATIONS RACK; VERIFY ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN
7. 2#10,1#10 GND,3/4"C
8. UL LISTED FIRE-RETARTAND COMMUNICATIONS BACKBOARD, 4FT X 4FT. INSTALL ONE No. 6 COPPER GROUND IN 3/4"C TO BUILDING GROUND. LEAVE 4FT SLACK CONDUCTOR AT BACKBOARD.
9. JUNCTION BOX FOR DOOR LOCK POWER SUPPLY; INSTALL ABOVE CEILING; COORDINATE LOCATION WITH SECURITY DOOR INSTALLER; FURNISH AND INSTALL ALL SECURITY DOOR DEVICES AND CONDUIT

POWER & SIGNAL PLAN

4' 2' 0' 4' 8'

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

YATES ENGINEERING SOLUTIONS
7159 Blue Jack Dr.
Navarre, FL 32566
FBPE Authorization No. 30242
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LICENSE NO. AR94000
PHONE: 850 769 3357
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REVISIONS NO.	DATE	DESC.

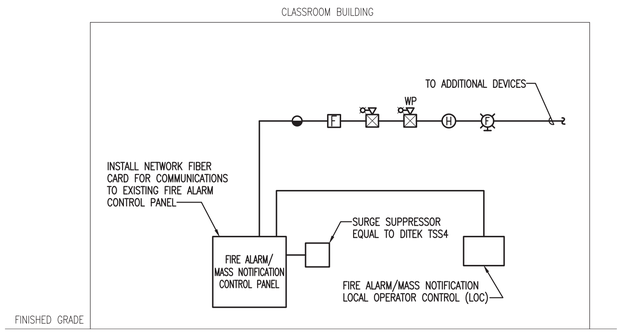
PROJECT # 2409

CONSTRUCTION DOCUMENTS

POWER & SIGNAL PLAN

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. E1.1

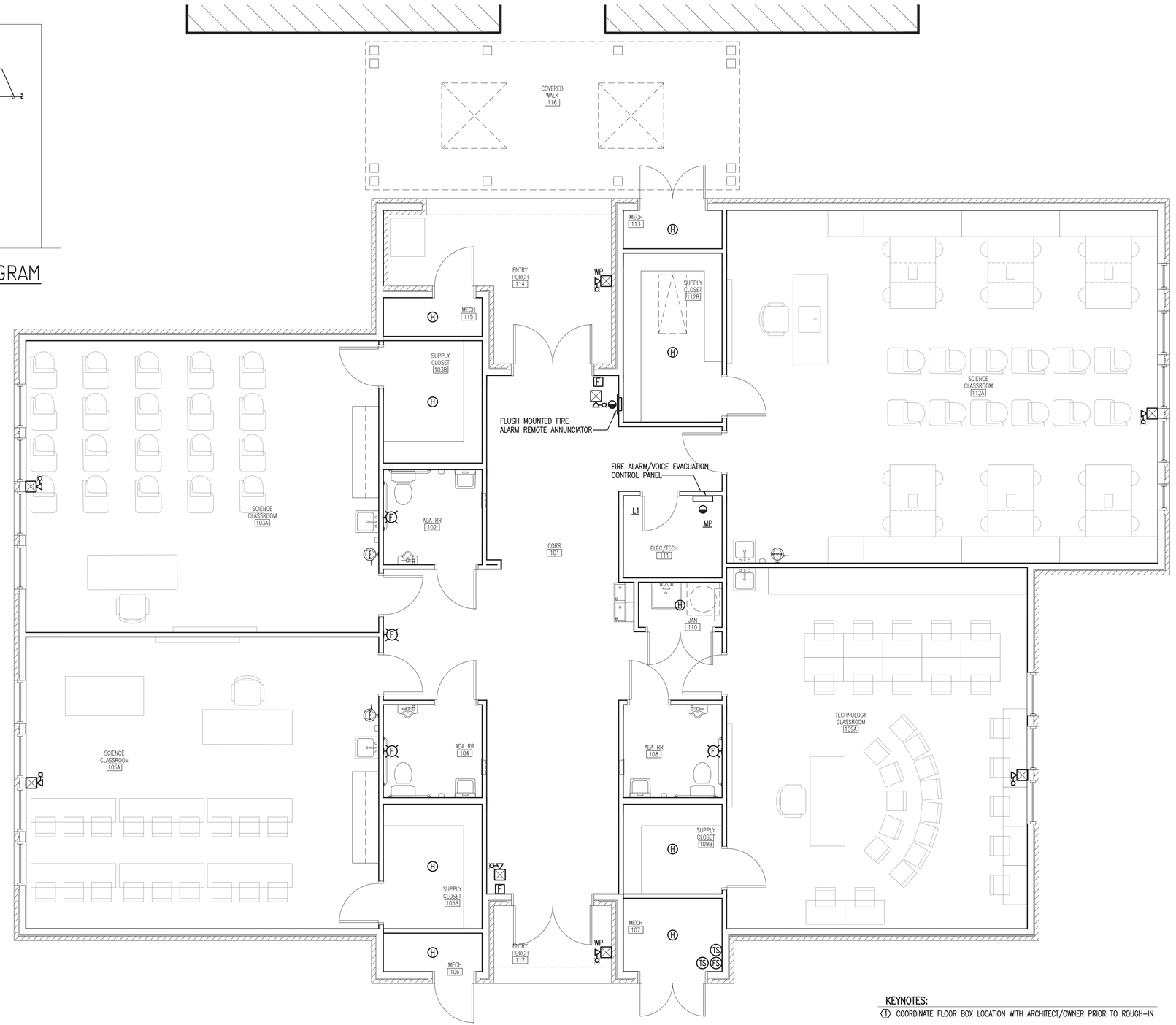


FIRE ALARM/MASS NOTIFICATION RISER DIAGRAM

NOT TO SCALE

FIRE ALARM SYSTEM RISER DIAGRAM GENERAL NOTES:

1. FURNISH FIRE ALARM SYSTEM WITH NECESSARY NETORK CARD, MODULES, ACCESSORIES, ETC. AS REQUIRED TO FUNCTION AS INDICATED.
2. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 72 AND ALL STATE AND LOCAL REQUIREMENTS
3. CONTRACTOR SHALL PAY FOR ANY STATE AND LOCAL FEES AND PERMITS ASSOCIATED WITH INSTALLATION OF SYSTEM.
4. FIRE ALARM SYSTEM SHALL BE INSTALLED BY A FIRE ALARM CONTRACTOR LICENSED IN THE STATE OF FLORIDA.
5. PROVIDE ADDRESSABLE TYPE FIRE ALARM/MASS NOTIFICATION CONTROL PANEL.
6. FIRE ALARM CONTRACTOR SHALL PROVIDE ALL DEVICES, INCLUDING DUCT DETECTORS



KEYNOTES:

(1) COORDINATE FLOOR BOX LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN

FIRE ALARM SYSTEM PLAN

4' 2' 0' 4' 8'

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

YATES ENGINEERING SOLUTIONS
7159 Blue Jack Dr.
Navarre, FL 32566
FSPE Authorization No. 30242
Phone: (850)512-9579
Email: quinn@yateseseng.com
FL PE No: 80826

LICENSE NO. AR94000
PHONE: 850 769 3357
FAX: 850 763 0410

VBA DESIGN, INC.
ARCHITECTS AND PLANNERS
2424 JENKS AVENUE, SUITE B
PANAMA CITY, FLORIDA 32405
"DESIGNING A BETTER EXPERIENCE"

RAYMOND Q. YATES
CERTIFICATE
No. 80826
STATE OF
1-9-2025
FLORIDA
PROFESSIONAL ENGINEER

DATE 1-9-2025
DRAWN QY
REVIEWED QY

REVISIONS
NO. DATE DESC.

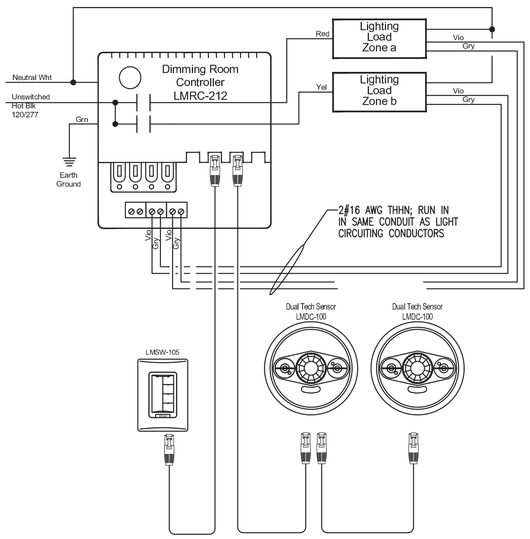
PROJECT # 2409

CONSTRUCTION DOCUMENTS

FIRE ALARM SYSTEM PLAN

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
205 HAMILTON AVENUE
PANAMA CITY FLORIDA

SHEET NO. E1.2



SEQUENCE OF OPERATION

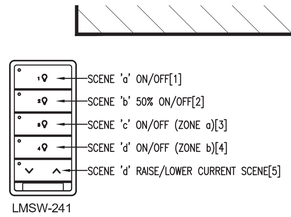
1. GENERAL LIGHTING (A) AUTO ON TO 50% WHEN OCCUPANCY DETECTED.
2. MANUAL ON/OFF/DIM AND LIGHT REDUCTION CONTROL OF GENERAL LIGHTING (A, B) WITH DIMMER SWITCHES.
3. MANUAL ON/OFF/DIM WHITE BOARD LIGHTING (B) WITH DIMMER SWITCH.
4. AUTO OFF ALL LIGHTING WITHIN 20 MINUTES OF OCCUPANTS LEAVING.

TYPICAL DRAWING DETAIL NOTES

1. FOLLOW MANUFACTURER INSTRUCTIONS FOR PROPER PRODUCT PLACEMENT, INSTALLATION, WIRING AND OPERATION.
2. DIAGRAM IS TYPICAL FOR SPACE TYPE. PROVIDE PROPER QUANTITY AND TYPE OF OCCUPANCY SENSORS, SWITCHES, ROOM CONTROLLERS, DAYLIGHTING SENSORS, ETC., PER CODE REQUIREMENT FOR EACH SPACE.
3. USE PRE-TERMINATED CAT5E CABLES WITH SPLITTERS AND COUPLERS AS NEEDED USING A FREE TOPOLOGY WIRING ARRANGEMENT TO CONNECT LIGHTING CONTROL DEVICES.
4. USE LM-MSTP WIRE TO DAISY CHANGE CONNECT NETWORK BRIDGE DEVICES IN EACH ROOM. TWIST TOGETHER AND TAPE BACK THE SHIELDED WIRE AND DO NOT CONNECT TO NETWORK TERMINALS.
5. CONTRACTOR SHALL PROGRAM THE ROOM CONTROLLER FOR SEQUENCE OF OPERATION LISTED ABOVE.

CEILING MOUNTED MOTION DETECTOR DETAIL

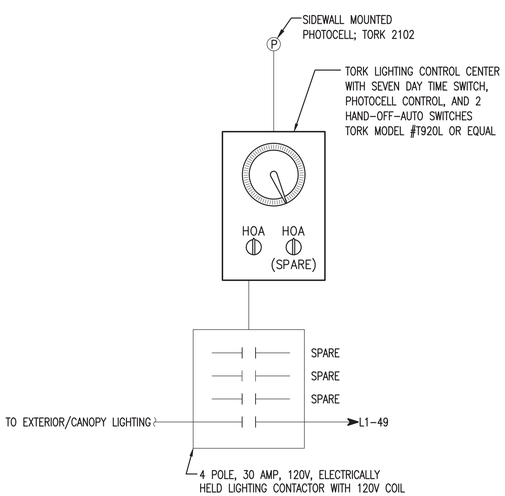
NOT TO SCALE



SEQUENCE OF OPERATIONS:
SCENE 'a': TURNS ZONE ALL LIGHTS ON OR OFF
SCENE 'b': TURNS ZONE ALL LIGHTS TO 50% ON OR OFF
SCENE 'c': TURNS ZONE 'a' LIGHTS ON OR OFF
SCENE 'd': TURNS ZONE 'b' LIGHTS ON OR OFF
SCENE 'e': RAISES OR LOWERS CURRENT SCENE

SLM4 DLM SWITCH ASSIGNMENT DETAIL

NOT TO SCALE



EXTERIOR LIGHTING CONTROL DIAGRAM

NOT TO SCALE

KEYNOTES:

1. ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR; SEE EXTERIOR LIGHTING CONTROL DIAGRAM
2. 2#10,1#10 GND, 3/4"C
3. ROUTE CIRCUIT THROUGH ROOM CONTROLLER; SEE CLASSROOM LIGHTING CONTROL DIAGRAM
4. 3#10,1#10 GND, 3/4"C
5. ROUTE CIRCUIT THROUGH ROOM CONTROLLER; SEE CORRIDOR LIGHTING CONTROL DIAGRAM

GENERAL NOTES:

- THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS/ DISCREPANCIES BETWEEN DISCIPLINES BEFORE ORDERING EQUIPMENT/MATERIALS.
- INSTALL OCCUPANCY SENSORS AND ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.

LIGHTING PLAN

4' 2' 0' 4' 8'

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

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DATE	1-9-2025	
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PROJECT # 2409

CONSTRUCTION DOCUMENTS

LIGHTING PLAN

NEW STREAM BUILDING FOR
HOLY NATIVITY EPISCOPAL SCHOOL
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PANAMA CITY FLORIDA

SHEET NO. E1.3