Renovations & Additions
Phase 2: Activity Barn

MADISON METHODIST CHURCH

1091 Confederate Highway

Madison, Georgia 30650

PROJECT DATA:

COUNTY: MORGAN COUNTY -104

CONTACTS:

OCCUPANT NAME: MADISON METHODIST CHURCH, INC.
OWNER CONTACT: SUNBELT BUILDERS - MIKE McCROREY
PROFESSIONAL CONTACT: SUBBELT BUILDERS - MIKE McCOREY

PROJECT INFORMATION

IS THIS GOVERNMENT? - NO
PURPOSE OF SUBMISSION: FULL SET
TYPE OF WORK - NEW RENOVATION
STANDARD USED: 2018 NFPA 101 LIFE SAFETY CODE NEW
TYPE OF OCCUPANCY: ASSEMBLY
CONSTRUCTION TYPE: V(111)-VA
SQUARE FOOTAGE OF FACILITY: 6,256 (4,909: RENOVATED / 1,347 ADDITION)
SQUARE FOOTAGE OF PROJECT: (7,667: RENOVATED / 1,347 ADDITION / 1,411 COVERED PATIO)
PROJECT OCCUPANT LOAD: 289
IS THE PROJECT AN ADDITION: YES
SQUARE FOOTAGE ADDED: 1,347 ADDITION / 1,411 COVERED PATIO
RENOVATION: YES
TOTAL STORIES OF BUILDING: 1
FLOOR PROJEDT IS LOCATED: SLAB ON GRADE
IS THERE A BASEMENT? NO.
SPRINKLER SYSTEM TO BE INSTALLED? YES
SPRINKLER TYPE: 13
FIRE ALARM TO BE ADDED? YES
ALARM TYPE: VOICE EVAC
NO. OF BUILDING IN PROJECT: 1
BUILDING NAME: MADISON METHODIST CHURCH
BUILDING SQUARE FOOTAGE: 6,256
BUILDING OCCUPANT LOAD: 289

PROJECT SCOPE OF WORK

THE PROJECT IS PHASE 2 OF 3 PHASES.

PHASE 2 SCOPE OF WORK:

PHASE 2 SCOPE OF WORK INCLUDES THE RENOVATION OF AN EXISTING OUT-BUILDING, APPROXIMATELY 4,909 SQUARE FEET IN AREA, AN ADDITION APPROXIMATELY 1,347 SQUARE FEET AND A PATIO AREA APPROXIMATELY 1,147 SQUARE FEET. THE OUT-BUILDING FUNCTION WILL BE ASSEMBLY TYPE.
THE EXISTING OUT-BUILDING IS WOOD FRAME CONSTRUCTION WITH WOOD TRUSSES.

BRAVO BLDG SET 08-31-2026

CD REVIEW DOCUMENTS

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APPROVED
MORGAN COUNTY PLANNING AND DEVELOPMENT
DATE: 4-13-2026
BY:

CONSULTANT

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SUNBELT BUILDERS
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COVER SHEET

Retrofit & Renovations for
Madison Methodist Church
Phase 2: Activity Barn
1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.12.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.26
REVISIONS:	
1	00.00.26
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SHEET
AO.1
OF

ABBREVIATIONS

"E" PRECEEDING THE ABBREVIATIONS BELOW REFERS TO AN EXISTING ITEM.

ABV	ABOVE	DBL	DOUBLE	KPL	KICKPLATE			REM	REMOVE
AFF	ABOVE FINISHED FLOOR	DH	DOUBLE HUNG	KIT	KITCHEN			REQD	REQUIRED
AFS	ABOVE FLOOR SLAB	DS	DOWNSPOUT	KO	KNOCKOUT			RES	RESILIENT
AGG	ACCESS	DN	DOWN					RET	RETURN
AC	ACOUSTICAL	DRB	DRAINBOARD					RA	RETURN AIR
ACP	ACOUSTICAL CEILING PANEL	DT	DRAIN TILE	LBL	LABEL			RVS	REVERSE (SIDE)
		DWR	DRAWER	LAB	LABORATORY			REV	REVISION (S), REVISED
ACPL	ACOUSTICAL PLASTER	DWG	DRAWING	LAM	LAMINATE (D)			RH	RIGHT HAND
ACT	ACOUSTICAL CEILING TILE	DF	DRINKING FOUNTAIN	LAV	LAVATORY			ROW	RIGHT OF WAY
				LH	LEFT HAND				RISER
AGR	ACRYLIC PLASTIC			L	LENGTH			RVT	RIVET
ADD	ADDENDUM			LT	LIGHT			RD	ROOF DRAIN
ADH	ADHESIVE	EA	EACH	LTL	LINTEL			RFG	ROOFING
ADJT	ADJACENT	EF	EACH FACE	LL	LIVE LOAD			RM	ROOM
ADJ	ADJUSTABLE	EW	EACH WAY	LVR	LOUVER			RO	ROUGH OPENING
AGG	AGGREGATE	E	EAST	LLV	LONG LEG VERTICAL			RWL	RAIN WATER LEADER
A/C	AIR CONDITIONING	ELEC	ELECTRIC(AL)	LLH	LONG LEG HORIZONTAL				
ALT	ALTERNATE	EP	ELECTRIC PANELBOARD						
AL	ALUMINUM	EWC	ELECTRIC WATER COOLER						
ANC	ANCHOR, ANCHORAGE								
AB	ANCHOR BOLT	EL	ELEVATION					SCH	SCHEDULE
ANOD	ANODIZED	ELEV	ELEVATOR	MH	MANHOLE			SECT	SECTION
APX	APPROXIMATE	EMER	EMERGENCY	MFR	MANUFACTURER			SS	SERVICE SINK
ARCH	ARCHITECT (URAL)	ENC	ENCLOSE (URE)	MKBD	MARKERBOARD			SHTH	SHEATHING
AD	AREA DRAIN	EQ	EQUAL	MRB	MARBLE			SHT	SHEET
ASB	ASBESTOS	EQP	EQUIPMENT	MAS	MASONRY			SIM	SIMILAR
ASPH	ASPHALT	EST	ESTIMATE	MO	MASONRY OPENING			SKL	SKYLIGHT
AUTO	AUTOMATIC	EXH	EXHAUST	MAT	MATERIAL			SC	SOLID CORE
		EXTG	EXISTING	MAX	MAXIMUM			SP	SOUNDPROOF
		EXP	EXPANSION	MECH	MECHANIC (AL)				SOUTH
		EJ	EXPANSION JOINT	MED	MEDIUM			SPK	SPEAKER
BSMT	BASEMENT	EXT	EXTERIOR	MBR	MEMBER			SPL	SPECIAL
BRG	BEARING			MTL	METAL			SPEC	SPECIFICATION (S)
BM	BENCH MARK/BEAM			MNWK	MILLWORK			SQ	SQUARE
BEL	BELOW			MIN	MINIMUM				SQUARE INCH
BET	BETWEEN			MIR	MIRROR			SF	SQUARE FEET
BVL	BEVELED	FB	FACE BRICK	MISC	MISCELLANEOUS			SSTL	STAINLESS STEEL
BIT	BITUMINOUS	FOC	FACE OF CONCRETE	MOD	MODULAR			STD	STANDARD
BLK	BLOCK	FOF	FACE OF FINISH	MLD	MOLDING, MOULDING			STA	STATION
BLKG	BLOCKING	FOM	FACE OF MASONRY	MR	MOP RECEPTOR			STL	STEEL
BD	BOARD	FOS	FACE OF STUDS	MT	MOUNT (ED) (ING)			STOR	STORAGE
BS	BOTH SIDES	FBD	FIBERBOARD	MOV	MOVABLE			SD	STORM DRAIN
BW	BOTH WAYS	FGL	FIBERGLASS	MILL	MILLION			STR	STRUCTURE (AL)
BOT	BOTTOM	FIN	FINISH (ED)	MULL	MULLION			SCT	STRUCTURAL CLAY TILE
BRK	BRICK	FFE	FINISH FLOOR ELEVATION					SUSP	SUSPENDED
BRZ	BRONZE							SYM	SYMMETRY (ICAL)
BLDG	BUILDING	FA	FIRE ALARM					SYN	SYNTHETIC
BUR	BUILT UP ROOFING	FBRK	FIRE BRICK					SYS	SYSTEM
		FE	FIRE EXTINGUISHER CABINET	NAT	NATURAL				
		FEC	FIRE EXTINGUISHER & CABINET	NOM	NOMINAL				
				N	NORTH				
		FHC	FIRE HOSE CABINET	NIC	NOT IN CONTRACT				
CAB	CABINET	FP	FIREPROOF	NTS	NOT TO SCALE			TKBD	TACKBOARD
CPT	CARPET (ED)	FLG	FLASHING	NO.	NUMBER			TKS	TACKSTRIP
CSMT	CASEMENT	FLX	FLEXIBLE					TEL	TELEPHONE
CI	CAST IRON	FLR	FLOOR (ING)					TV	TELEVISION
CPC	CAST-IN-PLACE CONCRETE	FD	FLOOR DRAIN	OFF	OFFICE			TEMP	TEMPERED
		FPL	FLOOR PLATE	OC	ON CENTER			TC	TERRA COTTA
CST	CAST STONE	FLUR	FLUORESCENT	OPNG	OPENING			TZ	TERRAZZO
CB	CATCH BASIN	FTG	FOOTING	OPP	OPPOSITE			THK	THICK (NESS)
CK	CAULK (ING), CAULK (ING)	FND	FOUNDATION	OD	OUTSIDE DIAMETER			THR	THRESHOLD
CLG	CEILING	FR	FRAME (D), (ING)	OVA	OVERALL			TA	TOILET ACCESSORY
CEM	CEMENT	FS	FULL SIZE	OH	OVERHEAD			TPTN	TOILET PARTITION
CTR	CENTER	FBO	FURNISHED BY OTHERS					TTD	TOILET TISSUE DISPENSER
CER	CERAMIC	FUR	FURRED (ING)						
CT	CERAMIC TILE	FUT	FUTURE	PNT	PAINT (ED)			TOL	TOLERANCE
CMT	CERAMIC MOSAIC (TILE)			PR	PAIR			T&G	TONGUE AND GROOVE
CKBD	CHALKBOARD			PNL	PANEL			TOS	TOP OF SLAB
CHAM	CHAMFER			PB	PANIC BAR			TOST	TOP OF STEEL
CR	CHROMIUM (PLATED)			PTD	PAPER TOWEL DISPENSER			TOW	TOP OF WALL
CIR	CIRCLE	GA	GAGE, GAUGE					TB	TOWEL BAR
CIRC	CIRCUMFERENCE	GALV	GALVANIZED	PTR	PAPER TOWEL RECEPTOR			TR	TRANSOM
CLR	CLEAR (ANCE)	GKT	GASKET (ED)	PKG	PARKING				TREAD
CLO	CLOSET	GL	GLASS, GLAZING	PBD	PARTICLE BOARD			TRT-WD	TREATED WOOD
CLS	CLOSURE	GCMU	GLAZED CONCRETE MASONRY UNITS	PTN	PARTITION			TYP	TYPICAL
COL	COLUMN			PVG	PAVING			TOF	TOP OF FOOTING
COMB	COMBINATION	GB	GRAB BAR	PVMT	PAVEMENT				
COMPT	COMPARTMENT	GD	GRADE, GRADING	PERF	PERFORATE (D)				
COMP	COMPOSITION (COMPOSITE)	GRN	GRANITE	PLAS	PLASTER				
		GVL	GRAVEL	PLAM	PLASTIC LAMINATE				
CONC	CONCRETE	GT	GROUT	PL	PLATE			UNFIN	UNFINISHED
CMU	CONCRETE MASONRY UNIT	GYP BD	GYPSUM BOARD	PWD	PLYWOOD			UNO	UNLESS NOTED OTHERWISE
		GYPL	GYPSUM LATH	PT	POINT				
CONST	CONSTRUCTION	GYPPL	GYPSUM PLASTER	PVC	POLYVINYL CHLORIDE			UR	URINAL
CONT	CONTINUOUS, CONTINUE	GYPT	GYPSUM TILE	PCF	POUNDS PER CUBIC FOOT				
CONTR	CONTRACT/CONTRACTOR			PLF	POUNDS PER LINEAL FOOT			VAR	VARNISH(ED)
CLL	CONTRACT LIMIT LINE							VNR	VENEER
CG	CONTROL JOINT			PSF	POUNDS PER SQUARE FOOT			VERT	VERTICAL
CFR	COFFER	HBD	HARDBOARD					VB	VINYL BASE
CJ	CORNER GUARD	HDW	HARDWARE	PSI	POUNDS PER SQUARE INCH			VCT	VINYL COMPOSITION TILE
CORR	CORRIDOR	HWD	HARDWOOD						
CMP	CORRUGATED METAL PIPE	HDR	HEADER	PCC	PRECAST CONCRETE			VT	VINYL TILE
		HTG	HEATING	PFB	PREFABRICATE (D)			VWC	VINYL WALL COVERING
CFL	COUNTERFLASTING	HVAC	HEATING/VENTILATING/AIR CONDITIONING	PTWD	PRESSURE TREATED WOOD				
CS	COUNTERSUNK								
CRS	COURSE (S)	HD	HEAVY DUTY	PFN	PREFINISHED				
CF	CUBIC FOOT	HT	HEIGHT	PRFM	PREFORMED			WSCT	WAINSCOT
CY	CUBIC YARD	HC	HOLLOW CORE	PRPL	PROPERTY LINE			WTW	WALL TO WALL
		HM	HOLLOW METAL					WH	WALL HUNG
		HK	HOOK (S)					WC	WATER CLOSET
		HORZ	HORIZONTAL					WP	WATERPROOFING
DPR	DAMPER	HB	HOSE BIBB	QT	QUARRY TILE			WR	WATER REPELLENT
DP	DAMPPROOFING	HWH	HOT WATER HEATER					WS	WATERSTOP
DL	DEAD LOAD							WT	WEIGHT
DKG	DECKING			RAD	RADIUS			WWF	WELDED WIRE FABRIC
DEMO	DEMOLISH, DEMOLITION			RWL	RAINWATER LEADER			W	WIDTH, WIDE, WEST
DMT	DEMOUNT(ABLE)	INCL	INCLUDE (D) (ING)	REF	REFERENCE			WDW	WINDOW
DGA	DENSE GRADE AGGREGATE	ID	INSIDE DIAMETER	RFL	REFLECT (ED)(IVE)(OR)			WG	WIRE GLASS
		INSUL	INSULATE (D) (ION)	REFR	REFRIGERATOR			W/	WITH
DEP	DEPRESSED	INT	INTERIOR	REG	REGISTER			W/O	WITHOUT
DET	DETAIL	INV	INVERT	REINF	REINFORCE (D) (ING)			WD	WOOD
DIAG	DIAGONAL			RCP	REINFORCED CONCRETE PIPE			WB	WOOD BASE
DIA	DIAMETER							WI	WROUGHT IRON
DIM	DIMENSION	JAN	JANITOR						
DIV	DIVIDE/DIVISION	JT	JOINT						
DR	DOOR	JST	JOIST						

PLAN AND SECTION INDICATIONS

EARTHWORKS

EARTH

ROCK

STONE/ AGGREGATE FILL

CONCRETE

CONCRETE

CONCRETE (LIGHT WEIGHT)

WELDED WIRE FABRIC (IN CONCRETE)

MASONRY

CONCRETE MASONRY UNITS (CMU)

BRICK (COMMON OR FACE)

STONE

MARBLE/ GRANITE

LIMESTONE

METAL

STEEL

ALUMINUM

WOOD

WOOD FRAMING

WOOD BLOCKING

FINISHED WOOD

PLYWOOD

INSULATION

BATT/LOOSE FILL INSULATION

RIGID INSULATION

GLASS

GLASS

FINISHES

TERRAZZO

GYPSUM/ PLASTER

ACOUSTICAL TILE

CARPET

ELEVATION INDICATIONS

RUBBLE STONE

SQUARED STONE

CONCRETE, PLASTER, SYNTHETIC FINISH

GLASS

CMU - RUNNING BOND

CMU - STACK BOND

BRICK - RUNNING BOND

BRICK - SOLDIER

SHINGLES

HORIZONTAL SIDING

SHEET METAL

CERAMIC TILE

SYMBOLS

SQUARE

ANGLE

CENTERLINE

CHANNEL

POUND OR NUMBER

HANDICAP FACILITIES

PERPENDICULAR

PLATE

ROUND OR DIAMETER

// PARALLEL

@ AT

& AND

GRAPHIC SYMBOLS

894 — NEW OR REQUIRED SPOT ELEVATION

894 — EXISTING SPOT ELEVATION

TB-1 — TEST BORING AND NUMBER

ELEVATION LINE

1 — REVISION (DATE OPTIONAL)

1 — DRAWING NOTES

2 — WALL TYPE

101 — DOOR NUMBER

A — WINDOW TYPE

101 — NEW DOOR & FRAME (SEE DOOR SCHEDULE)

A — NEW WINDOW UNIT (SEE WINDOW SCHEDULE)

ROOM NAME & NUMBER
101

MB 12 — MARKER BOARD LENGTH

CB 12 — CHALKBOARD LENGTH

TB 12 — TACKBOARD LENGTH

EQ 3 — EQUIPMENT EQUIPMENT NUMBER

KE 3 — KITCHEN EQUIPMENT EQUIPMENT NUMBER

FS 3 — FOOD SERVICE EQUIPMENT EQUIPMENT NUMBER

TA 5 — TOILET ACCESSORY ACCESSORY NUMBER

FIRE SEPARATION GENERAL NOTES

1. WHERE PIPING, DUCTWORK, ETC. PASS THRU SMOKE OR FIRE-RATED ASSEMBLIES, THESE AND ALL PENETRATIONS SHALL BE FIRE AND SMOKED STOPPED.

2. ALL SMOKE AND FIRE PARTITIONS OR WALLS SHALL BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK, UNLESS OTHERWISE NOTED.

FIRE SEPARATION WALL PLAN INDICATIONS

4 HOUR RATED WALL

3 HOUR RATED WALL

2 HOUR RATED WALL

1 HOUR RATED WALL

SMOKE PARTITION

INDICATES SECTION NUMBER

A1.4 — A — A1.1

INDICATES DRAWING SHEET ON WHICH SECTION IS SHOWN

BUILDING SECTION CUT LINE

MATCH LINE

A — A

BUILDING MATCH LINE

1 — A1.4

SECTION NUMBER

DIRECTION OF VIEW

DRAWING SHEET ON WHICH SECTION IS LOCATED

EXTENT OF SECTION CUT

WALL SECTION OR DETAIL SECTION MARK

4 — A1.2

DETAIL NUMBER

DRAWING SHEET ON WHICH DETAIL IS LOCATED

PLAN DETAIL MARK

BRAVO BLDG SET 08-31-2026

SHEET CONTENTS

SHT NO	SHEET DESCRIPTION
GENERAL	
A01	COVER SHEET
A02	ABBREVIATIONS, SYMBOLS, SHEET CONTENTS, ETC.
ARCHITECTURAL	
ALS1.1	LIFE SAFETY & CODE COMPLIANCE PLAN; FIRST FLOOR
AD1.0.1	DEMOLITION PLAN: FIRST FLOOR
A1.1	FLOOR PLAN
A1.4	EQUIPMENT PLAN & SCHEDULE
A2.1	BUILDING EXTERIOR ELEVATIONS
A3.1	BUILDING SECTIONS
A4.1	WALL SECTIONS & DETAILS
A4.2	WALL SECTIONS
A7.1	ROOF PLAN
A7.3	FIRE RATED ASSEMBLY DETAILS
A8.1	OPENINGS SCHEDULES, ETC.
A9.1	FINISH FLOOR PLAN, FINISH SCHEDULE, & RCP
A9.3.1	INTERIOR ELEVATIONS
STRUCTURAL	
S0.0	GENERAL NOTES
S1.1	FOUNDATION PLAN
S1.2	FOUNDATION SECTIONS
S2.1	ROOF FRAMING PLAN
S2.2	ROOF FRAMING SECTIONS
FIRE PROTECTION & PLUMBING	
P0.1	PLUMBING SPECIFICATIONS
P0.2	FIRE PROTECTION SPECIFICATIONS
P1.0	PLUMBING PLAN - SEWER
P1.1	PLUMGING PLAN - WATER
P2.0	PLUMBING ROOF PLAN
MECHANICAL	
M0.1	MECHANICAL SPECIFICATIONS
M0.2	MECHANICAL SCHEDULES
M0.3	MECHANICAL DETAILS
M1.1	MECHANICAL FLOOR PLAN
M1.2	MECHANICAL ROOF PLAN
ELECTRICAL	
E1.1	ELECTRICAL LEGENDS, SCHEDULES & DETAILS
E1.2	ELECTRICAL SPECIFICATIONS
E2.1	FLOOR PLAN - LIGHTING
E3.1	FLOOR PLAN - POWER & SYSTEMS
E4.1	ELECTRICAL DETAILS
E4.2	ELECTRICAL SCHEDULES
CIVIL	CIVIL DRAWINGS ARE UNDER A SEPARATE COVER

PROJECT TEAM:

OWNER:
MADISON METHODIST CHURCH
1091 CONFEDERATE HIGHWAY
MADISON, GEORGIA 30650

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ABBREVIATIONS, SYMBOLS, SHEET INDEX, ETC.

Retrofit & Renovations for Madison Methodist Church

Phase 2: Activity Barn

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	GM
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SHEET

A0.2

OF

CODE COMPLIANCE PLAN LEGEND

OL	OCCUPANT LOAD
31	EGRESS LOAD & DIRECTION
TD: 50'-0"	TRAVEL DISTANCE
FEC	FIRE EXTINGUISHER & CABINET: JL INDUSTRIES, INC., TYPE A, UL-RATED 3-A 40 BC 10 LB, WITH COMPATIBLE RECESSED CABINET
FEB	FIRE EXTINGUISHER & BRACKET: JL INDUSTRIES, INC., TYPE A, UL-RATED 3-A 40 BC 10 LB, WITH COMPATIBLE WALL BRACKET
FEB-K	FIRE EXTINGUISHER & BRACKET: JL INDUSTRIES, INC., CLASS K WITH COMPATIBLE WALL BRACKET
	EXIT LIGHT SIGN (SEE LIGHTING PLANS)
	EMERGENCY LIGHTING APPLIANCE, WALL MOUNTED (SEE LIGHTING PLANS)
	1-HOUR RATED PARTITION: UL-U305
	2-HOUR RATED PARTITION
	3-HOUR RATED PARTITION
	4-HOUR RATED PARTITION

MANDATORY CODES:

2024 INTERNATIONAL BUILDING CODE, WITH GEORGIA AMENDMENTS (2020) (2022) (2024).

2024 INTERNATIONAL EXISTING BUILDING CODE, WITH GEORGIA AMENDMENTS (2021)

2024 INTERNATIONAL FIRE CODE

2024 INTERNATIONAL PLUMBING CODE, WITH GEORGIA AMENDMENTS (2020) (2022) (2023) (2024).

2024 INTERNATIONAL MECHANICAL CODE, WITH GEORGIA AMENDMENTS (2020) (2024).

2024 INTERNATIONAL FUEL GAS CODE, WITH GEORGIA AMENDMENTS (2020) (2022).

2020 NATIONAL ELECTRICAL CODE, WITH GEORGIA AMENDMENTS (2021).

2015 INTERNATIONAL ENERGY CONSERVATION CODE, WITH GEORGIA SUPPLEMENTS & AMENDMENTS (2020) (2022) (2023).

2018 NFPA LIFE SAFETY CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 12-3-3-.04 (72).

2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS.

2019 NFPA 13 FIRE SPRINKLER SYSTEMS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS

GEORGIA ACCESSIBILITY CODE CHAPTER 120-3-20(.01-.08) WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH .11. - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

CODE REVIEW DATA:

OCCUPANCY TYPE(S): IBC / NFPA 101

ASSEMBLY (A3) / NEW ASSEMBLY
ACCESSORY STORAGE (S2)

CONSTRUCTION TYPE(S): IBC 2018 / NFPA 101 2012
TYPE VA / V-111
COMBUSTIBLE / PROTECTED / SPRINKLERED

BUILDING LEVELS AND HEIGHTS:
ONE STORY
TOP OF HIGHEST WALL / ROOF: 34'-6" +/-

BUILDING AREAS:
ALLOWABLE TABULAR AREA (IBC 2018 TABLE 503)
ASSEMBLY (A3) / NEW ASSEMBLY: 24,000 GSF ALLOWABLE
TOTAL ASSEMBLY (A3): 4,909 GSF ACTUAL
ACCESSORY (KITCHEN): 558 NSF
ACCESSORY STORAGE (S2): 54,000 GSF ALLOWABLE
TOTAL STORAGE (S2): 348 GSF ACTUAL
TOTAL BUILDING FOOTPRINT: 7,667 GSF

AUTOMATIC SPRINKLER INSTALLATION INCREASE: NOT NEEDED.

FRONTAGE INCREASE CALCULATIONS: NOT NEEDED.

OCCUPANCY LOAD: IBC 2018 / NFPA 101 2012
ASSEMBLY (A3) / NEW ASSEMBLY:

ASSEMBLY: 4,220 NSF / 15 NSF = 282 PERSONS
ACCESSORY (KITCHEN): 558 NSF / 100 NSF = 6 PERSONS
ACCESSORY (STORAGE): 348 NSF / 500 NSF = 1 PERSONS
TOTAL ASSEMBLY (A3): 289 PERSONS

EGRESS WIDTH REQUIRED / PROVIDED:
0.2" / PERSON X 289 PERSONS = 57.8" REQUIRED / 189" PROVIDED

SEE CODE COMPLIANCE PLAN FOR EGRESS / EXITING

TRAVEL DISTANCES: IBC 2018 / NFPA 101 2012
ASSEMBLY (A3): 250' / NEW ASSEMBLY: 250' ALLOWED.

PLUMBING FIXTURE CALCULATIONS IPC 2018
ASSEMBLY (A3): TOTAL LOAD: 289 PERSONS
-WATER CLOSETS
MALES: 144/150 = 0.96 / 1 REQUIRED
FEMALES: 145/75 = 1.93 / 2 REQUIRED
-LAVATORIES
MALES: 144/200 = 0.72 / 1 REQUIRED
FEMALES: 145/200 = 0.72 / 1 REQUIRED

DRINKING FOUNTAINS: 1,274/1000 = 1.28 / 2 REQUIRED
BOTTLED WATER PROVIDE AT KITCHEN AREA

JAN. SINKS: 1 REQUIRED / 1 PROVIDED

PLUMBING FIXTURE TABULATIONS
PROVIDED TOTALS
WATER CLOSETS: 1 M / 2 F = 2 TOTAL
URINALS: 1 M= 1 TOTAL
LAVS: 1 M / 1 F = 2 TOTAL
D.F.: 0 PROVIDED (SEE ABOVE)

PROJECT DATA:

COUNTY: MORGAN COUNTY -104

CONTACTS:

OCCUPANT NAME: MADISON METHODIST CHURCH, INC.
OWNER CONTACT: SUNBELT BUILDERS - MIKE McCROREY
PROFESSIONAL CONTACT: SUBBELT BUILDERS - MIKE McCROREY

PROJECT INFORMATION

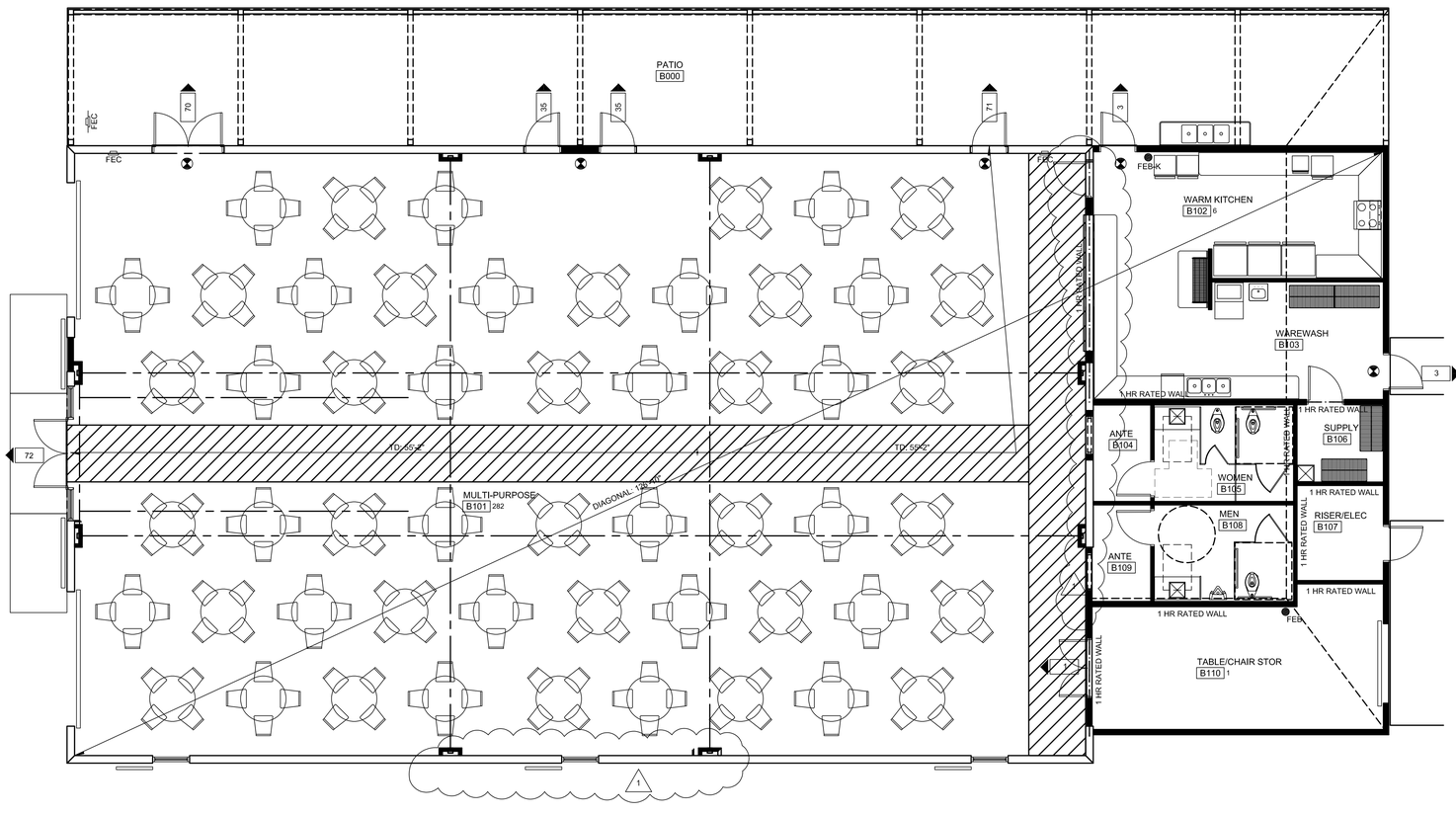
IS THIS GOVERNMENT? - NO
PURPOSE OF SUBMISSION: FULL SET
TYPE OF WORK - NEW RENOVATION
STANDARD USED: 2018 NFPA 101 LIFE SAFETY CODE NEW
TYPE OF OCCUPANCY: ASSEMBLY
CONSTRUCTION TYPE: V-111-VA
SQUARE FOOTAGE OF FACILITY: 6,256 (4,909: RENOVATED / 1,347 ADDITION)
SQUARE FOOTAGE OF PROJECT: (7,667: RENOVATED / 1,347 ADDITION / 1,411 COVERED PATIO)
PROJECT OCCUPANT LOAD: 289
IS THE PROJECT AN ADDITION: YES
SQUARE FOOTAGE ADDED: 1,347 ADDITION / 1,411 COVERED PATIO
RENOVATION: YES
TOTAL STORIES OF BUILDING: 1
FLOOR PROJEDT IS LOCATED: SLAB ON GRADE
IS THERE A BASEMENT? NO.
SPRINKLER SYSTEM TO BE INSTALLED? YES
SPRINKLER TYPE: 13
FIRE ALARM TO BE ADDED? YES
ALARM TYPE: VOICE EVAC
NO. OF BUILDING IN PROJECT: 1
BUILDING NAME: MADISON METHODIST CHURCH
BUILDING SQUARE FOOTAGE: 6,256
BUILDING OCCUPANT LOAD: 289

PROJECT SCOPE OF WORK

THE PROJECT IS PHASE 2 OF 3 PHASES.

PHASE 2 SCOPE OF WORK:

PHASE 2 SCOPE OF WORK INCLUDES THE RENOVATION OF AN EXISTING OUT-BUILDING, APPROXIMATELY 4,909 SQUARE FEET IN AREA, AN ADDITION APPROXIMATELY 1,347 SQUARE FEET AND A PATIO AREA APPROXIMATELY 1,147 SQUARE FEET. THE OUT-BUILDING FUNCTION WILL BE ASSEMBLY TYPE.
THE EXISTING OUT-BUILDING IS WOOD FRAME CONSTRUCTION WITH WOOD TRUSSES.



BRAVO BLDG SET 08-31-2026

PROJ NORTH

CODE COMPLIANCE & LS PLAN: THE ACTIVITY BARN - PHASE 2

SCALE: 3/16" = 1'-0"

SCALE IN FEET

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CERTIFICATE NO. 020
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CONSULTANT

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770.786.3031

FLOOR PLAN: BARN

Retrofit & Renovations for Madison Methodist Church Phase 2: Activity Barn

1091 Confederate Highway, Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P2
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DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
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SHEET

ALS1.1

OF

GENERAL DEMOLITION NOTES

A. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CODES LISTED ON SHEET ALS1.1 AND CURRENT EDITIONS OF ALL OTHER APPLICABLE LOCAL CODES, ORDINANCES, SUBDIVISION REGULATIONS, AND COVENANTS AND REQUIREMENTS.

B. REMOVE OF DEMOLITION ITEMS MEANS DEMOLITION, REMOVAL AND LEGALLY TRANSPORTING AND DISPOSING OFF-SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.

C. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, NOTIFY OWNER AND/OR ARCHITECT IMMEDIATELY.

D. PROVIDE, ERECT AND MAINTAIN EFFECTIVE BARRICADES, DANGER SIGNALS AND SIGNS IN LOCATIONS WHERE REQUIRED FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE WORKERS AND THE PUBLIC.

E. MAINTAIN EXISTING UTILITIES, INDICATED TO REMAIN. KEEP IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS.

F. PROVIDE MATERIALS, LABOR, AND EQUIPMENT NOT SPECIFICALLY INDICATED BUT NECESSARY FOR DEMOLITION AND PROPER INSTALLATION OF NEW MATERIALS AND PROPER COMPLETION OF THIS CONTRACT.

PLAN DEMOLITION NOTES

1. REMOVE EXISTING WINDOW, LOUVER, STOREFRONT, DOOR ASSEMBLIES, AND ASSOCIATED HARDWARE, ETC. AND DISPOSE OF OFF SITE.

2. SHORE AND BRACE EXISTING ROOF STRUCTURE AND REMOVE EXISTING WALL ASSEMBLEY, INCLUDING ASSOCIATED DOOR AND WINDOW ASSEMBLIES THEREIN, AND DISPOSE OF OFF SITE.

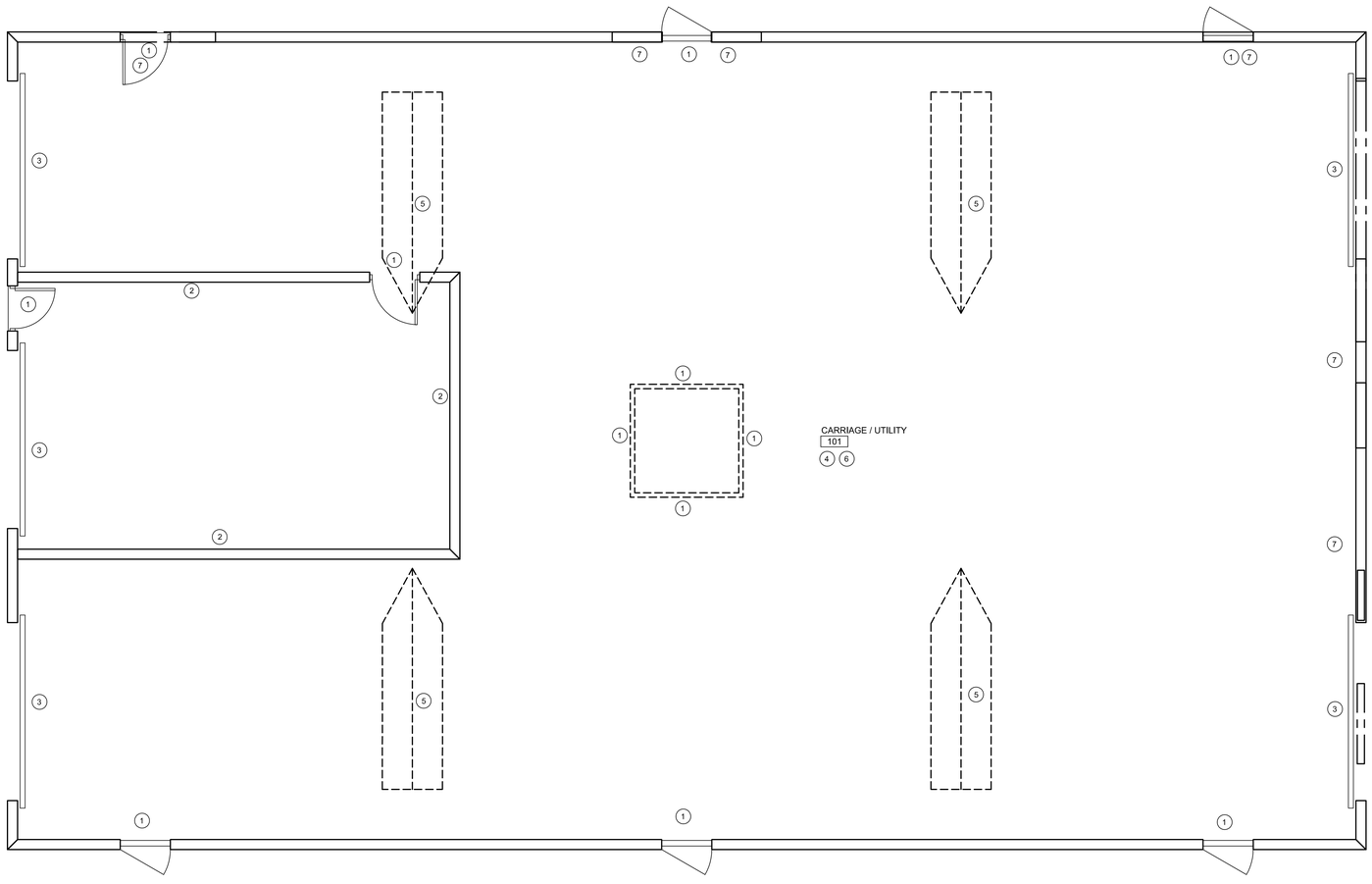
3. REMOVE EXISTING BARN DOOR ASSEMBLY AND DISPOSE OF OFF SITE.

4. REMOVE EXISTING ELECTRICAL EQUIPMENT AND LIGHT FIXTURES AND ASSOCIATED CONDUIT, PANELS, SWITCHES, OUTLETS, ETC. AND DISPOSE OF OFF SITE.

5. REMOVE EXISTING ROOF DORMER, INCLUDING WINDOW UNIT, ETC., AND DISPOSE OF OFF SITE.

6. REMOVE A PORTION OF EXISTING STRUCTURE TO ALLOW INSTALLATION OF NEW AND DISPOSE OF OFF SITE.

7. REMOVE A PORTION OF EXISTING WALL TO ALLOW INSTALLATION OF NEW DOOR OR WINDOW ASSEMBLE AND DISPOSE OF OFF SITE.



BRAVO BLDG SET 08-31-2026

PROJ NORTH

DEMOLITION PLAN: THE ACTIVITY BARN - PHASE 2

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

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EQUIPMENT FLOOR PLAN

Retrofit & Renovations for Madison Methodist Church
Phase 2: Activity Barn

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SHEET

AD1.1

OF

PARTITION TYPES

WOOD FRAMING PARTITIONS

- 6.4.1 — 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.
- 6.4.2 — 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH FACES & SOUND ATTENUATION INSULATION.
- 6.4.3 — 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.
- 6.4.4 — 2X4 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8"TYPE "X" GYPSUM BOARD ON EACH FACE. (UL DESIGN NO. U305) & SOUND ATTENUATION INSULATION.
- 6.4.5 — 2X4 WOOD STUDS AT 16" O. C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE W/ THERMAL INSULATION R13. (UL DESIGN NO. U305)
- 6.6.1 — 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. WITH SOUND ATTENUATION INSULATION.
- 6.6.2 — 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH FACES. & SOUND ATTENUATION INSULATION.
- 6.6.3 — 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY. & SOUND ATTENUATION INSULATION.
- 6.6.4 — 2X6 WOOD STUDS AT 16" O. C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES. (UL DESIGN NO. U305) & SOUND ATTENUATION INSULATION.
- 6.6.5 — 2X6 WOOD STUDS AT 16" O. C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE W/ WITH THERMAL INSULATION R19. (UL DESIGN NO. U305)

GENERAL PARTITIONS NOTES:

(1) ALL PARTITIONS TO TERMINATE AT BOTTOM OF CEILING JOIST OR AT BOTTOME OF ROOF SHEATHING U. O. N.

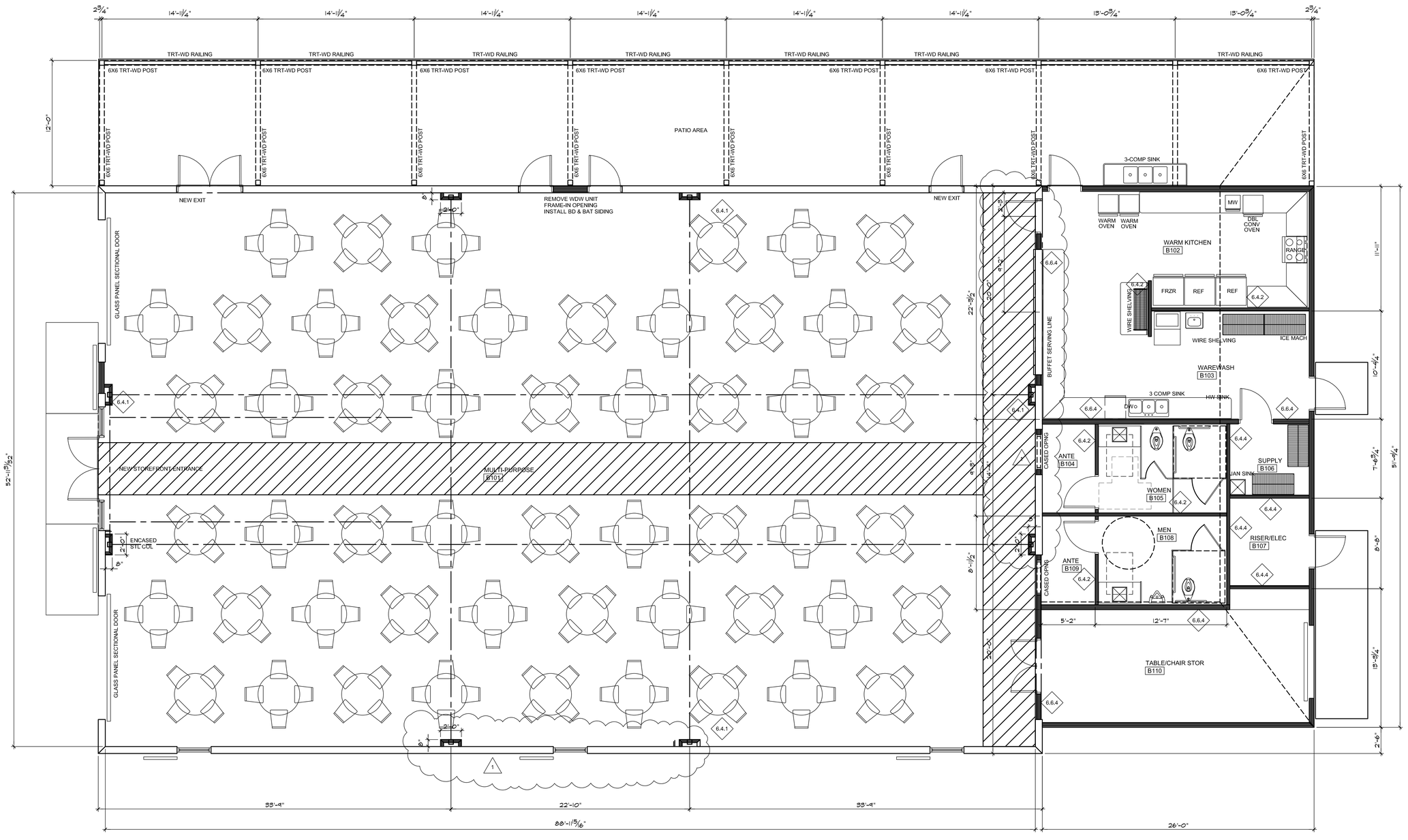
(2) ALL FIRE RATED WALLS & PARTITIONS TO TERMINATE AT BOTTOM OF FLOOR / CEILING JOISTS AND BOTTOM OF ROOF SHEATHING. FLOOR TO THE UNDERSIDE OF THE ROOF OR FIRE RATED FLOOR DECK WITH ALL OPENINGS SEALED TIGHT.

(3) RATED WALL CONSTRUCTION THAT EXTENDS FROM THE FLOOR TO THE UNDERSIDE OF FLOOR / CEILING JOISTS OR ROOF SHEATHING SHALL BE FIRE-SEALED TIGHT.

(4) FIRE STOP SYSTEMS AND DEVICES: PENETRATIONS FOR CABLES, CABLE TRAYS, CONDUITS, PIPES, TUBES, COMBUSTION VENTS AND EXHAUST VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS INTO OR THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A FIRE BARRIER SHALL BE PROTECTED BY A FIRE STOP SYSTEM OR DEVICE. LIFE SAFETY CODE SECTION 8.3.5.1 OF THE 2018 EDITION. FIRE STOP SYSTEMS SHALL HAVE A MINIMUM OF ONE (1) HOUR F RATING, BUT NOT LESS THAN THE REEQUIRED FIRE RESISTIVE RATING OF THE FIRE BARRIER PENETRATED, SECTION 8.3.5.1.3. PENETRATIONS IN FIRE RATED HORIZONTAL ASSEMBLIES SHALL HAVE A MINIMUM ONE (1) HOUR T RATING, BUT NOT LESS THAN THE FIRE RESISTIVE RATING OF THE HORIZONTAL ASSEMBLY, SECTION 8.3.5.1.4. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS.

(5) IDENTIFICATION OF FIRE BARRIERS SHALL BE BY SIGNS OR STENCILING PERMANENTL INSTALLED ON ALL RATED BARRIERS OR WALLS, ABOVE ANY DECORATIVE CEILING AND/OR IN CONCEALED SPACES. THE LETTERING SHALL BE 2" IN HEIGHT AND SPACED EVERY 12 FEET. THE FOLLOWING WORDING IS RECOMMENDED: "ONE 1 (OR TWO-2) HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS."

BRAVO BLDG SET 08-31-2026



PROJ NORTH

FLOOR PLAN: THE ACTIVITY BARN - PHASE 2

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

SCALE IN FEET

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FLOOR PLAN: BARN

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1091 Confederate Highway — Madison, Georgia 30650

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SHEET

A1.1

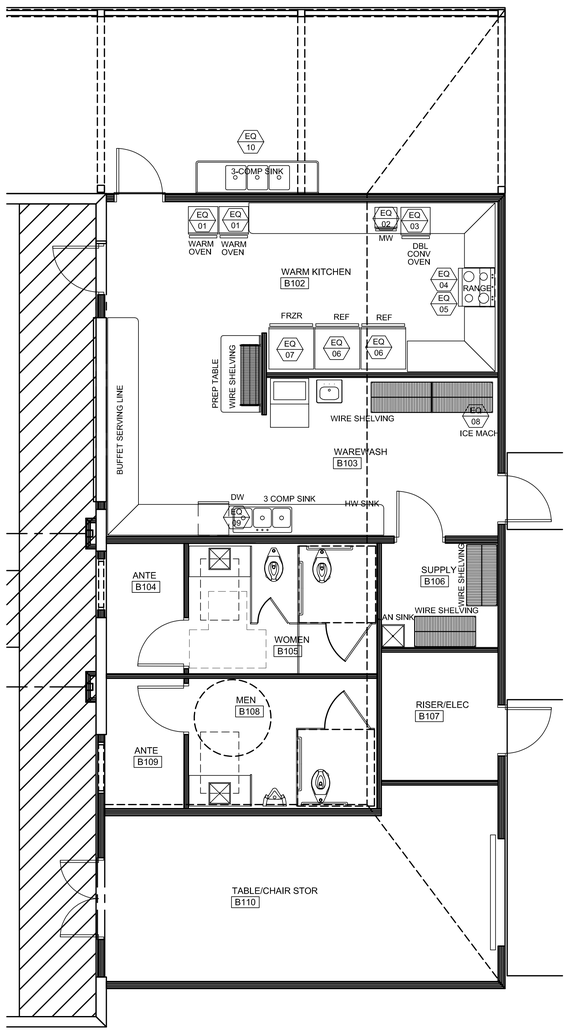
OF

EQUIPMENT SCHEDULE

ABBREVIATIONS:

GC GENERAL CONTRACTOR INSTALLATION
PH PIZZA HUT

SYMBOL		ITEM			PHYSICAL DATA				MOTOR	UTILITIES											REMARKS/NOTES
										ELECTRICAL					PLUMBING						
MARK	SPACE	DESCRIPTION	MANUFACTURER	MODEL NO.	W	L	H	WT (LBS)	HP	VOLTS	AMPS	WATTS	PHASE	HERTZ	HOT	COLD	WASTE	GAS	AIR	MISC.	
EQ01	B102	WARM OVEN	BUNN	55400.0106	17	24.5	34	-	-	208-240	24	5200	1	60	-	3/8	PLUMB	-	-	-	FURNISHED BY OWNER / GC INSTALLED
EQ02	B102	MICROWAVE	PANASONIC	NN-SN97JS	24	20	14	-	-	120	12.3	1460	1	60	-	-	-	-	-	-	FURNISHED BY OWNER / GC INSTALLED
EQ03	B102	DBL OVEN	MOTAK	MECO-2-DBL-240	38	43.5	63	546.75	-	240V	50	11.9 kw	1	60	-	-	-	-	-	-	FURNISHED BY OWNER / GC INSTALLED
EQ04	B102	HOOD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SEE MECH FOR HOOD
EQ05	B102	RANGE	THOR	HRE3601	37.75	31	36	-	-	240V	50	-	1	60	-	-	-	-	-	-	FURNISHED BY OWNER / GC INSTALLED
EQ06	B102	REFRIGERATOR	TRAULSEN	-	27	33.25	82	-	-	-	-	-	-	-	-	-	-	-	-	-	FURNISHED BY OWNER / GC INSTALLED
EQ07	B102	FREEZER	TRAULSEN	CLBM-23F-FS-R	27	33.25	82	-	1/2	115	6.5	-	1	60	-	-	-	-	-	-	FURNISHED BY OWNER / GC INSTALLED
EQ08	B103	ICE MAKER	MANITOWOC	IRTO500A	30	34	60	-	-	115	5.1	-	1	60	-	3/8	-	-	-	-	FURNISHED BY OWNER / GC INSTALLED
EQ09	B103	DISHWASHER	THOR	HDW2401SS	23.875	24.625	35.75	-	-	120V	50	840	1	60	-	-	-	-	-	-	FURNISHED BY OWNER / GC INSTALLED
EQ10	PATIO	3-COMP SINK GRID	METRO	PHXSG6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FURNISHED BY GC / GC INSTALLED



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PROJ NORTH

EQUIPMENT PLAN: THE ACTIVITY BARN - PHASE 2

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

SCALE IN FEET

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EQUIPMENT FLOOR PLAN

Retrofit & Renovations for Madison Methodist Church
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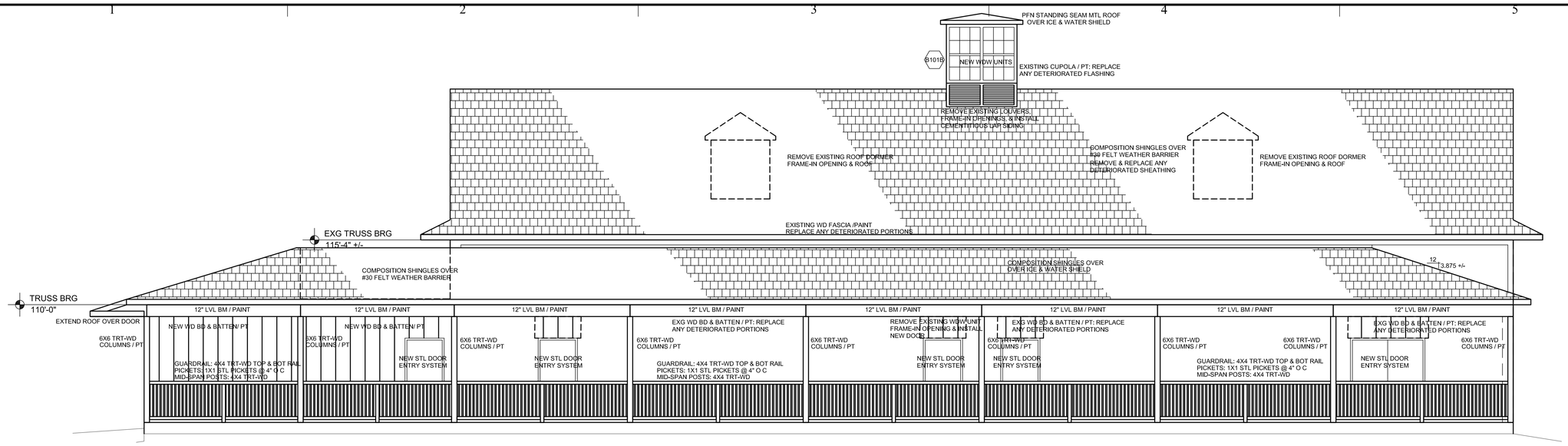
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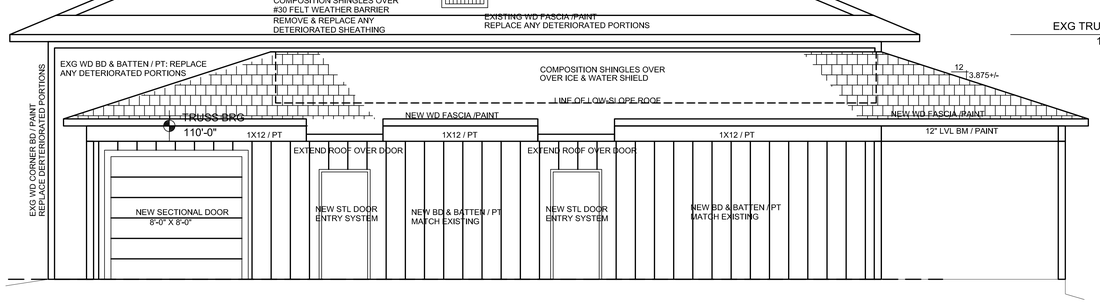
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OF



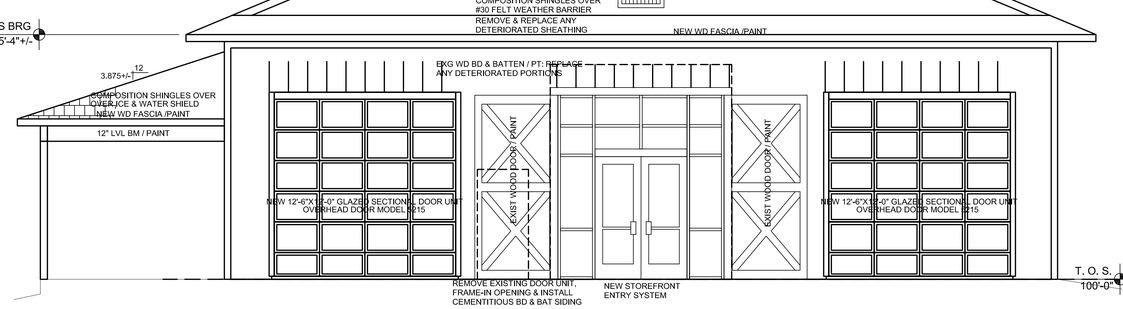
NORTH ELEVATION: BARN

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



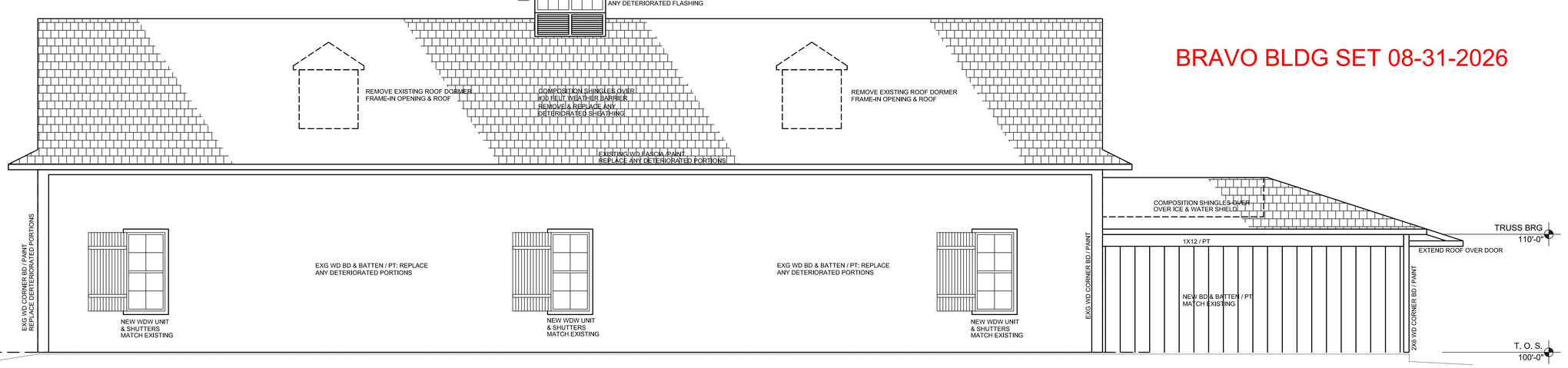
EAST ELEVATION

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



WEST ELEVATION

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



SOUTH ELEVATION

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

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0 8" 16"
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BUILDING ELEVATIONS

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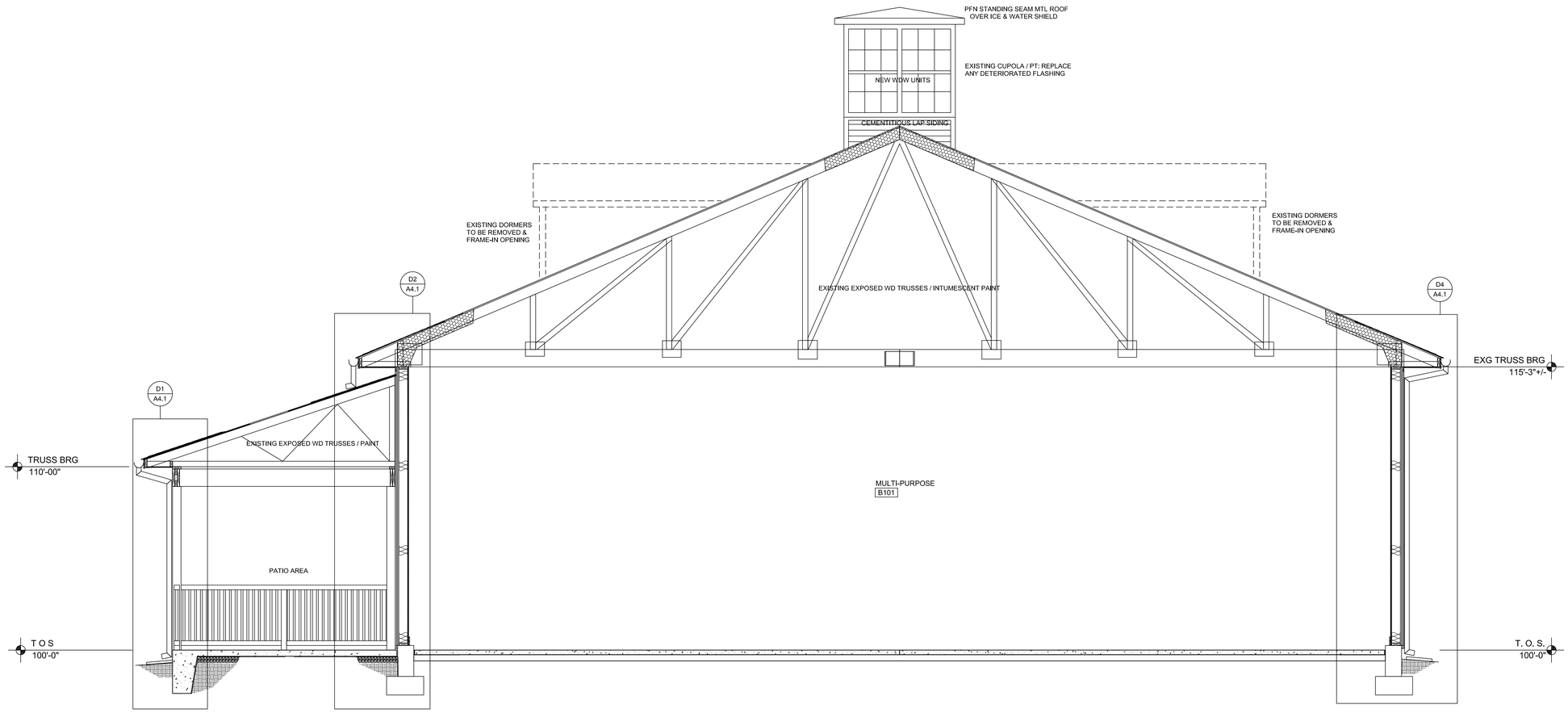
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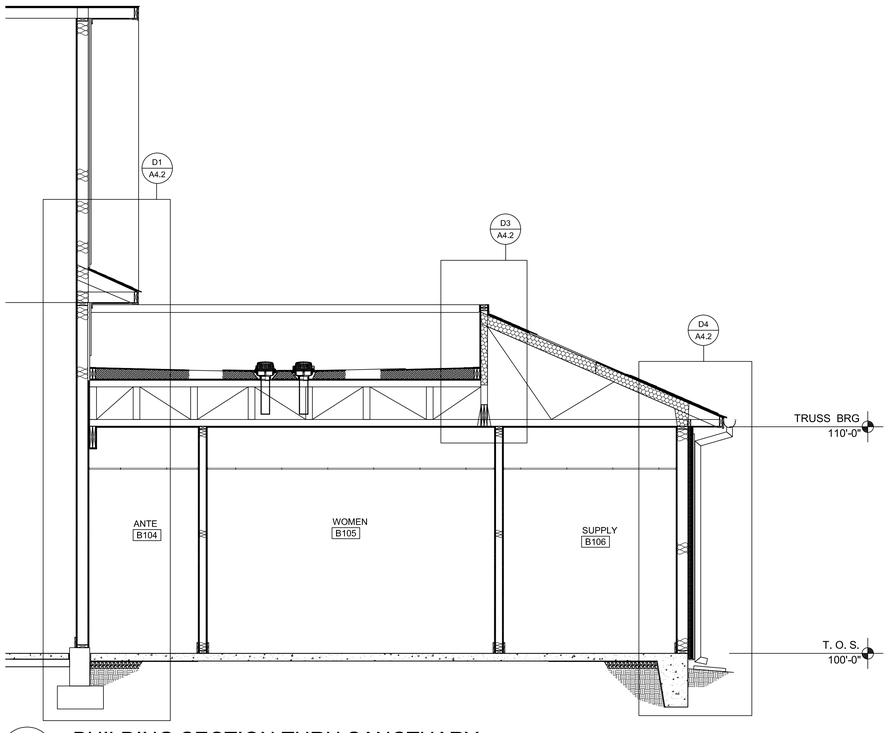
A2.1

OF



B1 / A3.1 BUILDING SECTION THRU SANCTURAY

SCALE: 3/8"=1'-0"



D1 / A3.1 BUILDING SECTION THRU SANCTUARY

SCALE: 3/8"=1'-0"

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BUILDING SECTIONS

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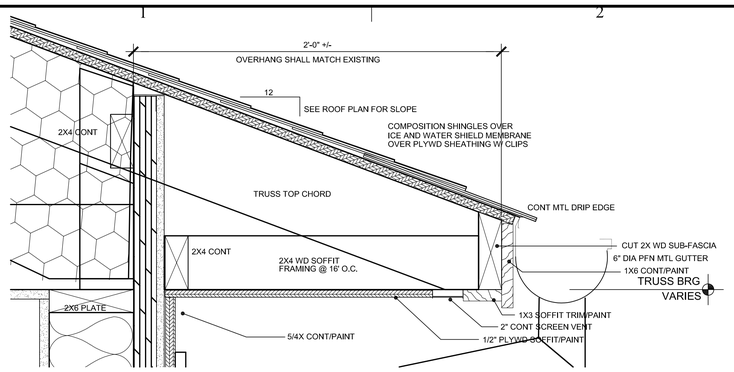
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A3.1

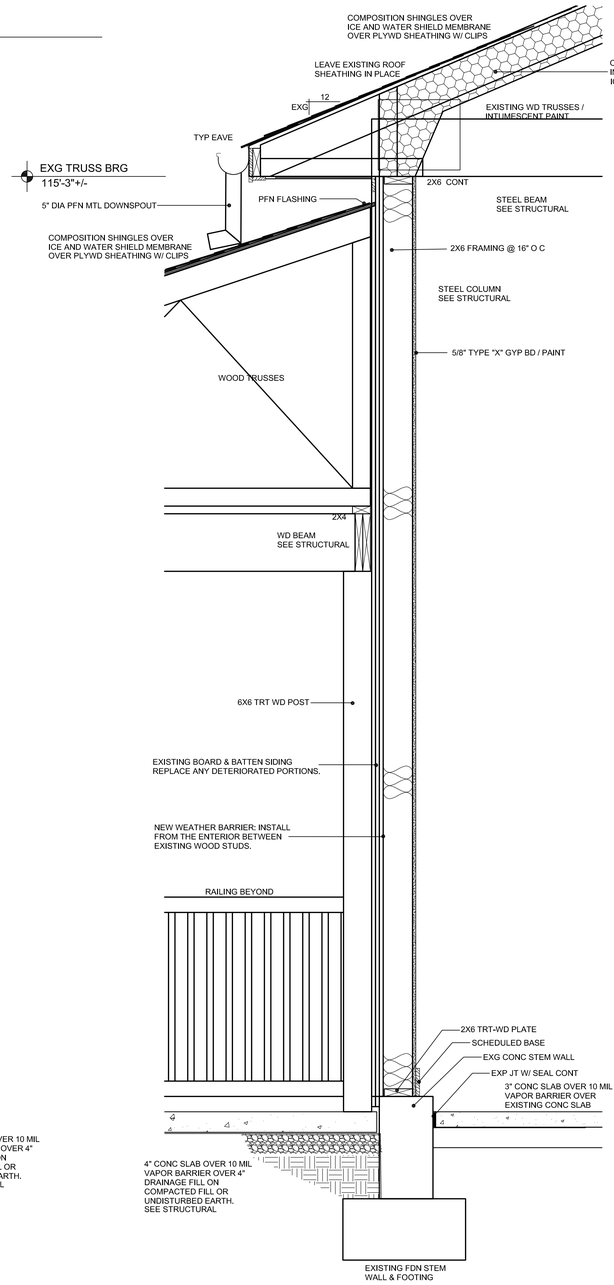
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A1 / A4.1

DETAIL: TYP EAVE

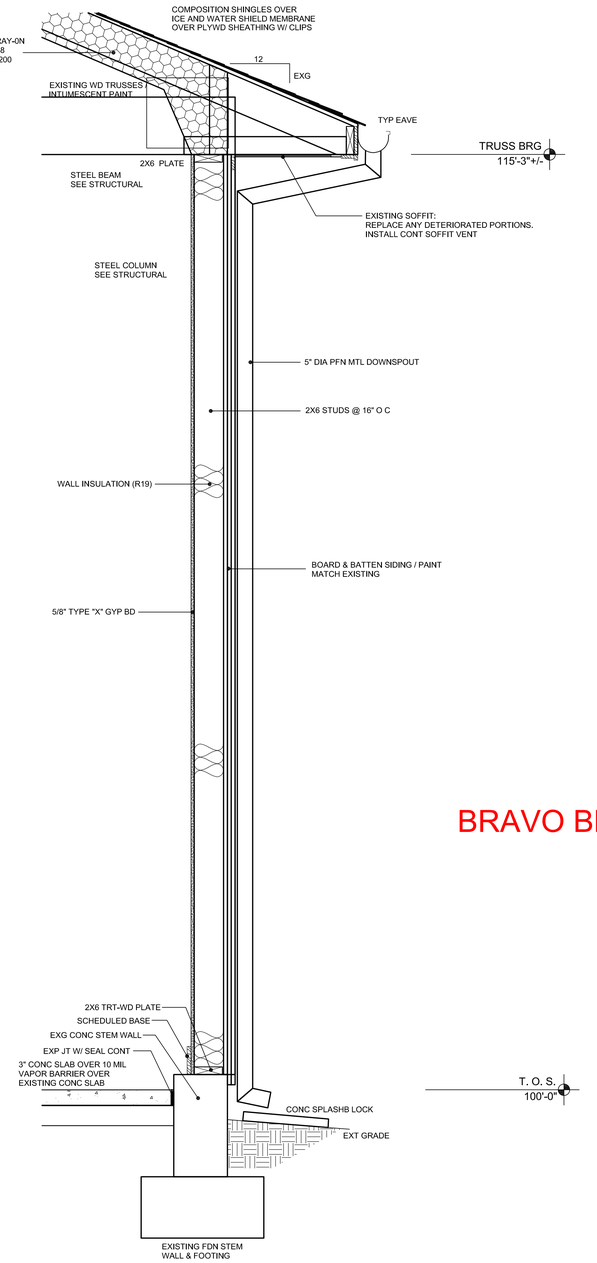
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D2 / A4.1

WALL SECTION

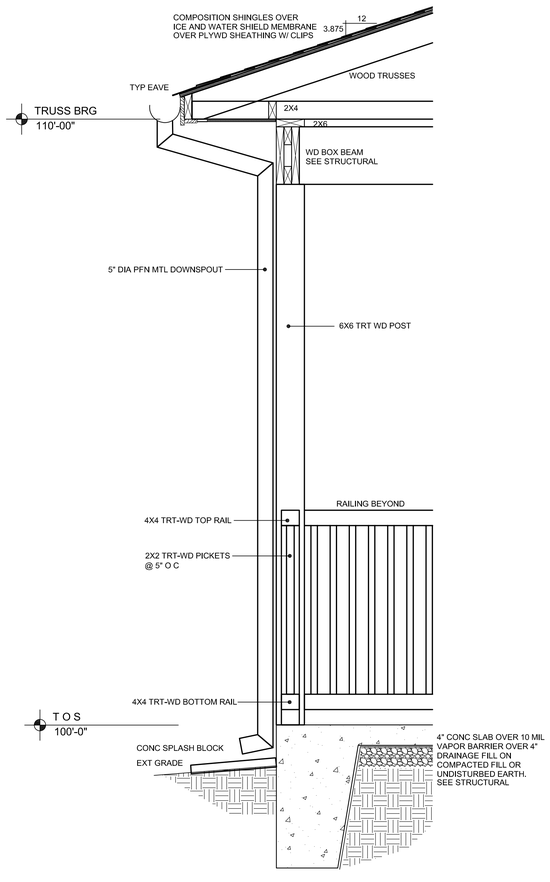
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D4 / A4.1

WALL SECTION

SCALE: 1"=1'-0"



D1 / A4.1

WALL SECTION

SCALE: 1"=1'-0"

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WALL SECTIONS & DETAILS

Retrofit & Renovations for Madison Methodist Church
Phase 2: Activity Barn

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.12.26
DESCRIPTION:	BID-CONSTRUCTION
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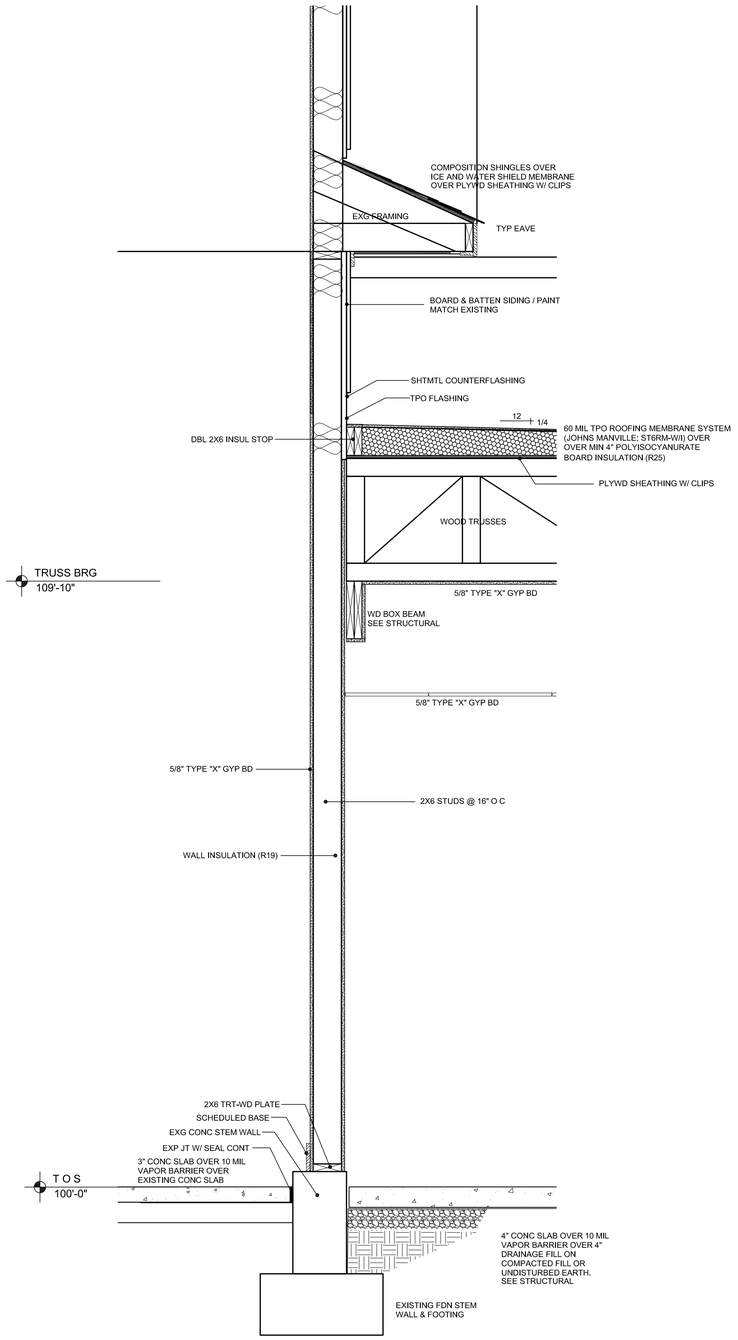
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A4.1

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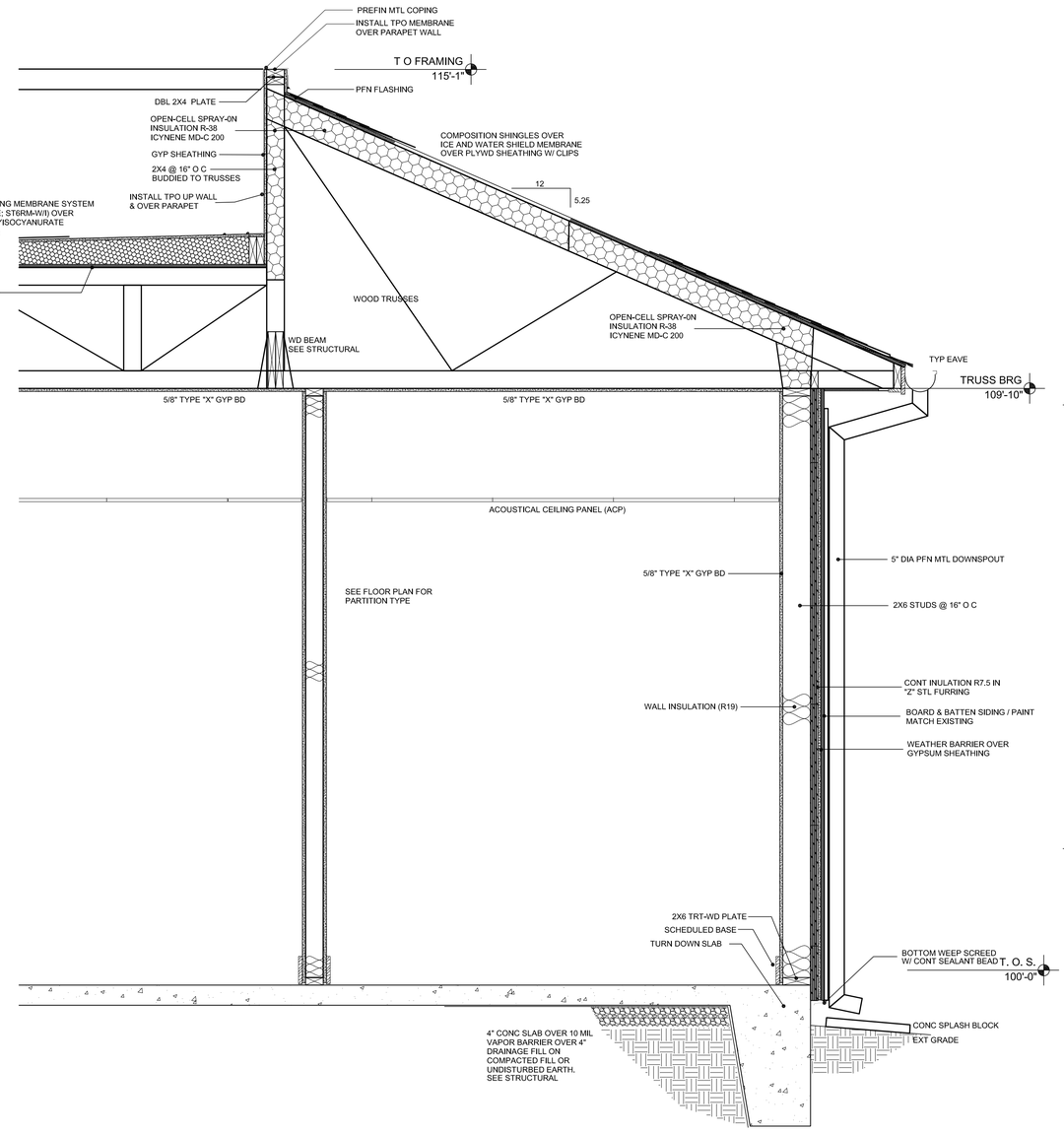
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D1
A4.2

PARTIAL WALL SECTION

SCALE: 1"=1'-0"



D4
A4.2

WALL SECTION

SCALE: 1"=1'-0"

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WALL SECTIONS & DETAILS

Retrofit & Renovations for Madison Methodist Church
Phase 2: Activity Barn

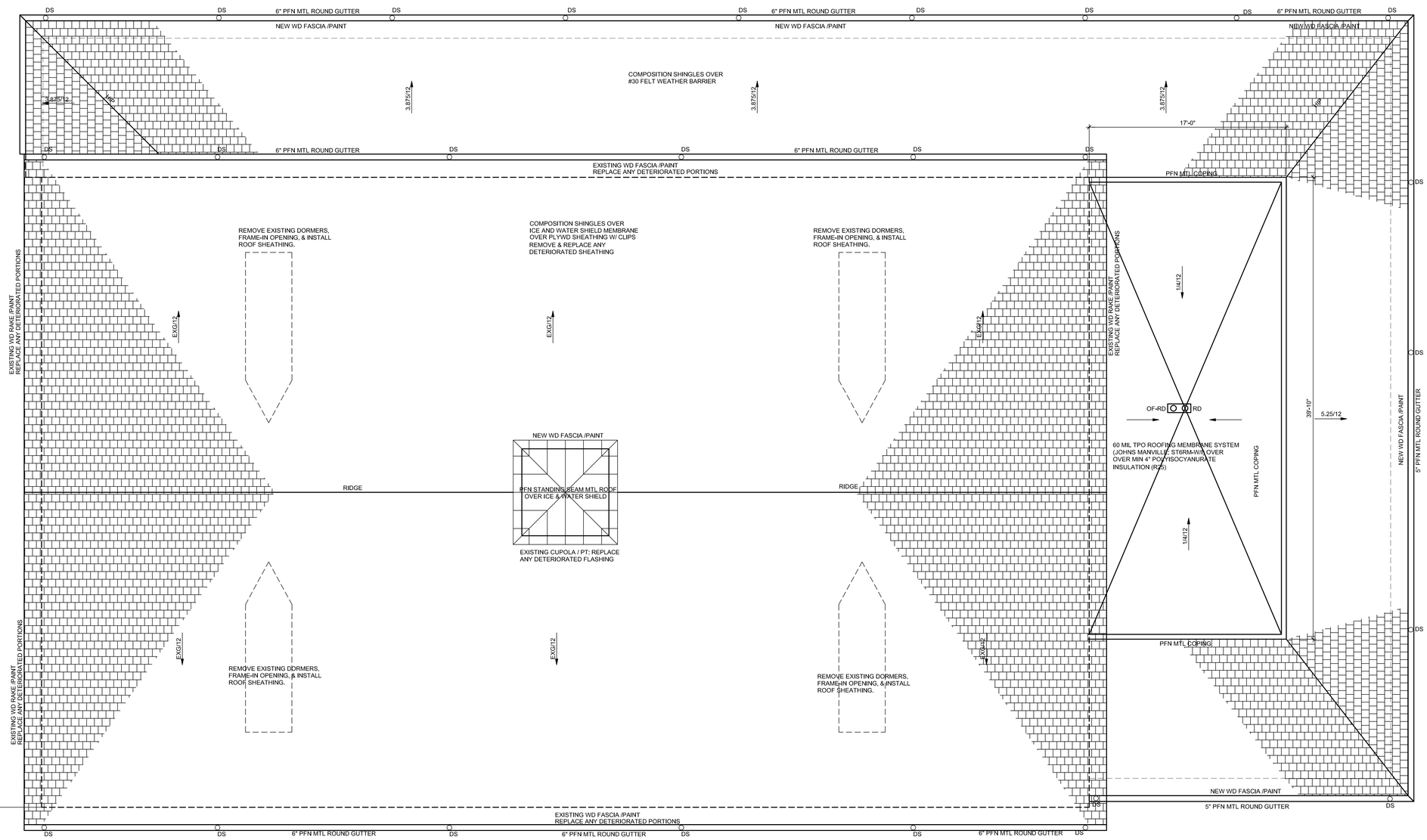
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PROJ NORTH

FLOOR PLAN: THE ACTIVITY BARN - PHASE 2

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

SCALE IN FEET

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ROOF PLAN

Retrofit & Renovations for Madison Methodist Church
Phase 2: Activity Barn

1091 Confederate Highway — Madison, Georgia 30650

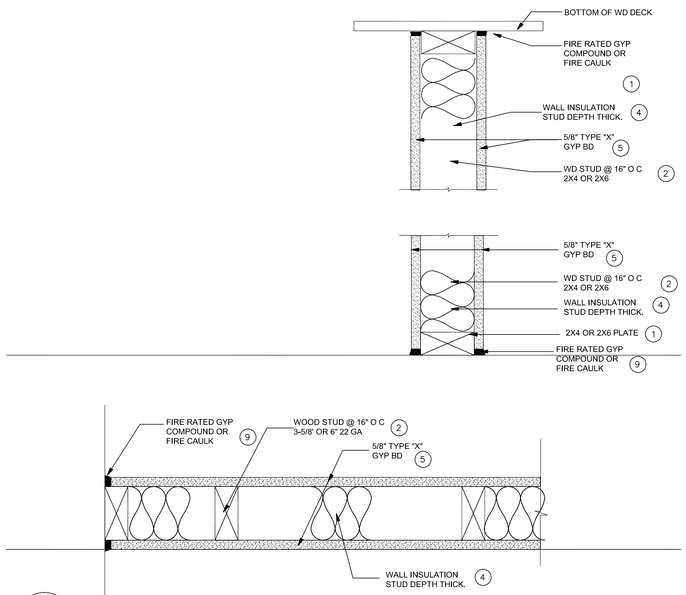
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A7.1

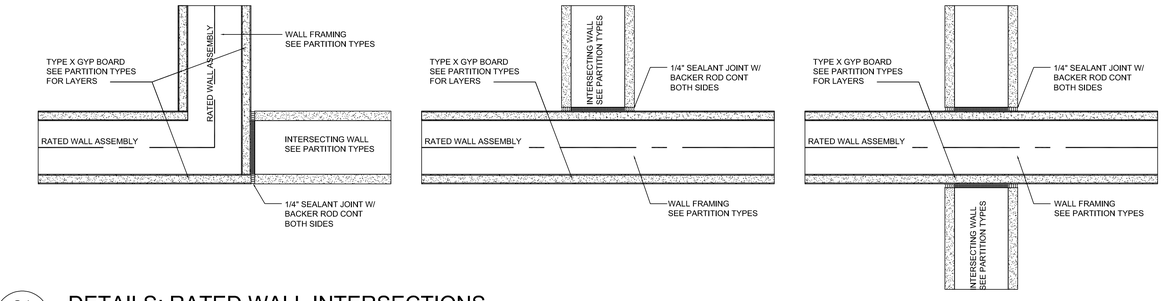
OF



B1
A7.3

ONE HOUR RATED PARTITION: UL-U305

NTS



C1
A7.3

DETAILS: RATED WALL INTERSECTIONS

SCALE: NTS

UL RATED WALL CRITERIA: DESIGN NO. U305

NONBEARING WALL RATINGS — 1 HOUR

1. CEILING RUNNERS: NOT REQUIRED

2. WOOD STUDS: NOMINAL 2 X 4 OR 2X6, SPACED 16" O. C. EFFECTIVELY CROSS BRACED.

3. WOOD STRUCTURAL PANEL SHEATHING: NOT REQUIRED.

4. BATTS AND BLANKETS: MINERAL WOOL BATTS, FRICTION FITTED BETWEEN STUDS AND PLATES. MIN. NOMINAL THICKNESS EQUAL THE STUD DEPTH.

5. GYPSUM BOARD: GYPSUM PANELS WITH BEVELED, SQUARE OF TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. VERTICAL JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED ONE STUD CAVITY. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED A MIN. OF 12 IN. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) WITH TYPE ULIX NEED NOT BE STAGGERED. THE THICKNESS AND NUMBER OF LAYERS OF THE 1 HR AND 2 HR RATINGS ARE AS FOLLOWS:

1 HOUR RATED:
MIN. 3 5/8 IN STUD DEPTH
1 LAYER 5/8" TYPE "X" GYP BD ON BOTH STUD SURFACES
INSULATION OPTIONAL

6. FASTENERS: TYPE S-12 STEEL SCREWS USED TO ATTACHED PANELS TO STUDS.

SINGLE LAYER SYSTEMS: 1 IN. LONG FOR 1/2 AND 5/8 IN. THICK PANELS OR 1-1/4 IN. LONG FOR 3/4 IN. THICK PANELS SPACED 8 IN. OC WHEN PANELS ARE APPLIED HORIZONTALLY, OR 8 IN. OC ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. OC IN THE FIELD WHEN PANELS ARE APPLIED VERTICALLY.

SINGLE LAYER SYSTEMS WITH TYPE ULIX: 1 IN. LONG FOR 1/2 IN. OC IN THE FIELD AND PERIMETER, WHEN PANELS ARE APPLIED HORIZONTALLYH OR VERTICALLY.

7. FURRING / ADDITIONAL FRAMING: NONE REQUIRED.

8. JOINT TAPE AND COMPOUND VINYL OR CASEING, DRY OR PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS OF OUTER LAYERS, PAPER TAPE, NOMINAL 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS OF OUTER LAYER PANELS. PAPER TAPE AND JOINT COMPOUND MAY BE OMITTED WHEN GUPSUM PANELS AARE SUPPLIED WITH A SQUARE EDGE.

9. SEALANTS: A BEAD OF GYPSUM FIRE RATED COMPOUND OR FIRE CAULK APPLIED AROUNG THE PARTITION PERIMETER.

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FIRE RATED ASSEMBLY DETAILS

Retrofit & Renovations for Madison Methodist Church Phase 2: Activity Barn

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	GM
CHECKED BY:	GM
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SHEET

A7.3

OF

WINDOW SCHEDULE

ABBREVIATIONS:

AL	ALUMINUM	NR	NOT RATED(NO RATING)	WD	WOOD
FF	FACTORY FINISH	PT	PAINT		
GL1	GLAZING TYPE	SF	STOREFRONT SYSTEM		
HLB	HORIZONTAL LOUVER BLIND	SS	SOLID SURFACE MATERIAL		
HM	HOLLOW METAL	STL	STEEL		
NA	NOT APPLICABLE				

SYMBOL		WINDOW UNIT									TRIM & SILL						DETAILS			FIRE RATING	WDW TRTMT	REMARKS
		R. O. SIZE		UNIT SIZE							WDW TRIM			WDW SILL			SHEET A8.3 U.O.N.					
SPACE	MARK	W	H	W	H	D	TYPE	MAT'L.	FIN	GL.	TYPE	MAT'L.	FIN	TYPE	MAT'L.	FIN	H	J	S			
A	B101	B101A	3'-3" +/-	6'-0"+/-	3'-2"	5'-11" +/-	4 1/2"	A	AL	FF	GL2	N/A	N/A	N/A	"	WD	FF	?	?	?	N/A	N/A	FIELD VERIFY R O SIZE
	B101	B101B	5'-6"+/-	4'-6"+/-	5'-4"+/-	4'-4"+/-	4 1/2"	B	AL	FF	GL1	N/A	N/A	N/A	"	WD	PT	?	?	?	N/A	N/A	FIELD VERIFY R O SIZE

DETAILS ON SHEET A8.3.2

GLASS TYPES

GL 1	INSULATING GLASS WITH TINTED LOW-E EXTERIOR PANE AND CLEAR GLASS INTERIOR PANE.
GL 2	INSULATING GLASS WITH TEMPERED TINTED LOW-E EXTERIOR PANE AND TEMPERED CLEAR GLASS INTERIOR PANE.
GL 3	INSULATING GLASS WITH TINTED EXTERIOR PANE AND CLEAR GLASS INTERIOR PANE.
GL 4	INSULATING GLASS WITH TEMPERED TINTED EXTERIOR PANE AND TEMPERED CLEAR GLASS INTERIOR PANE.
GL 5	SINGLE 1/4" TINTED GLASS.
GL 6	SINGLE 1/4" CLEAR GLASS.
GL 7	SINGLE 1/4" TEMPERED CLEAR GLASS.
GL 8	SOUND INSULATING GLASS WITH CLEAR LAMINATED PLATE GLASS PANELS BOTH PANES.
GL 9	SINGLE TEMPERED TINTED GLASS.
GL 10	INSULATING GLASS WITH CLEAR EXTERIOR PANE AND CLEAR GLASS INTERIOR PANE.
GL 11	INSULATING GLASS WITH TEMPERED CLEAR EXTERIOR PANE AND TEMPERED CLEAR GLASS INTERIOR PANE.
GL 12	1/4" WIRE GLASS.

DOOR, WINDOW, AND FRAME NOTES

1. ALL STEEL DOORS, WINDOWS, AND FRAMES SHALL BE PAINTED INCLUDING ALL TOPS, BOTTOMS, AND EDGES.

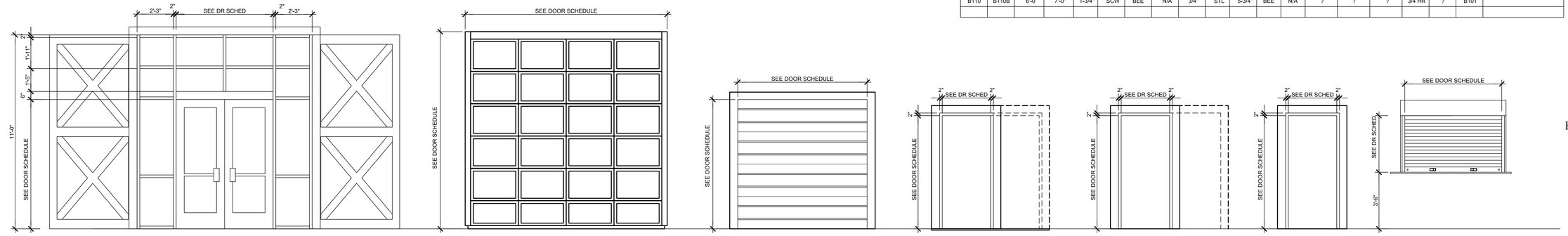
2. ALL WOOD DOORS, WINDOWS, AND FRAMES SHALL BE PAINTED OR STAINED INCLUDING ALL TOPS, BOTTOMS, AND EDGES.

DOOR AND FRAME SCHEDULE

ABBREVIATIONS:

AL	ALUMINUM	SCW	SOLID CORE WOOD	WD	WOOD
GL	GLASS TYPE	STN	STAIN	WPL	WOOD PANEL
HCW	HOLLOW CORE WOOD	STL	STEEL		
HR	HOUR RATING	S. S.	STAINLESS STEEL		

SYMBOL		DOOR							FRAME							HDWE.			
		OPENING SIZE											DETAILS						
SPACE	MARK	W	H	T	MAT'L.	TYPE	GL.	UND. CUT	MAT'L.	DEPTH	TYPE	TRIM TYPE	H	J	S	FIRE RAT'G	HDWE. GRP.	KEY SPACE	REMARKS
ACTIVITY BARN																			
	B101	B101A	6'-0"	7'-0"	1-3/4"	AL	BA	GL7	1/2"	AL	4-1/2"	BA	N/A	?	?	?	N/A	?	EXT	-
	B101	B101B	12'-0"	12'-0"	1-3/4"	AL	BB	GL11	"	STL	1-3/4"	BB	N/A	?	?	?	N/A	?	EXT	GLASS SECTIONAL DOOR
	B101	B101C	12'-0"	12'-0"	1-3/4"	AL	BB	GL11	"	STL	1-3/4"	BB	N/A	?	?	?	N/A	?	EXT	GLASS SECTIONAL DOOR
	B101	B101D	6'-0"	7'-0"	1-3/4"	HM	BDD	"	1/2"	STL	7-3/4"	BDD	N/A	?	?	?	N/A	?	EXT	-
	B101	B101E	3'-0"	7'-0"	1-3/4"	HM	BD	"	1/2"	STL	7-3/4"	BD	N/A	?	?	?	N/A	?	EXT	-
	B101	B101F	3'-0"	7'-0"	1-3/4"	HM	BD	"	1/2"	STL	7-3/4"	BD	N/A	?	?	?	N/A	?	EXT	-
	B101	B101G	3'-0"	7'-0"	1-3/4"	HM	BD	"	1/2"	STL	7-3/4"	BD	N/A	?	?	?	N/A	?	EXT	-
	B102	B102A	3'-0"	7'-0"	1-3/4"	HM	BD	"	1/2"	STL	7-3/4"	BD	N/A	?	?	?	N/A	?	EXT	-
	B102	B102B	3'-0"	7'-0"	1-3/4"	SCW	BE	N/A	3/4"	STL	5-3/4"	BE	N/A	?	?	?	3/4 HR	?	B101	-
	B103	B103A	3'-0"	7'-0"	1-3/4"	HM	BD	-	1/2"	STL	7-3/4"	BD	N/A	?	?	?	N/A	?	EXT	-
	B103	B103B	12'-0"	3'-6"	2"	STL	BG	GL7	"	STL	2"	BG	N/A	?	?	?	3/4 HR	?	101B	
	B104	B104	3'-0"	7'-0"	"	"	"	"	"	STL	7-3/4"	BF	"	"	"	"	"	"	"	FRAME ONLY
	B105	B105	3'-0"	7'-0"	1-3/4"	SCW	BE	N/A	3/4"	STL	5-3/4"	BE	N/A	?	?	?	"	?	"	-
	B106	B106	3'-0"	7'-0"	1-3/4"	SCW	BE	N/A	3/4"	STL	5-3/4"	BE	N/A	?	?	?	3/4 HR	?	B103	-
	B107	B107	3'-0"	7'-0"	1-3/4"	HM	BD	"	1/2"	STL	7-3/4"	BD	N/A	?	?	?	N/A	?	EXT	-
	B108	B108	3'-0"	7'-0"	1-3/4"	SCW	BE	N/A	3/4"	STL	5-3/4"	BE	N/A	?	?	?	"	?	"	-
	B109	B109	3'-0"	7'-0"	"	"	"	"	"	STL	7-3/4"	BF	"	"	"	"	"	"	"	FRAME ONLY
	B110	B110A	8'-0"	8'-0"	2"	STL	BC	"	"	STL	2"	BC	N/A	?	?	?	"	?	EXT	SECTIONAL OVERHEAD DOOR
	B110	B110B	6'-0	7'-0"	1-3/4"	SCW	BEE	N/A	3/4"	STL	5-3/4"	BEE	N/A	?	?	?	3/4 HR	?	B101	-



BA
KAWNEER TRIFAB 451T STOREFRONT SYSTEM CAPTIONED 4 SIDES
KAWNEER 550 STANDARD ENTRANCE DOOR

BB
SECTIONAL OVERHEAD DOOR; ALUMINUM GLASS MODEL 511 BY OVERHEAD DOOR CORPORATION, 1-3/4 PANEL THICKNESS, ELECTRIC OPERATION, INTERIOR MOUNTED, POWDER COATED FINISH (WHITE)

BC
SECTIONAL OVERHEAD DOOR; 420 SERIES STEEL DOOR BY OVERHEAD DOOR CORPORATION, 2" PANEL THICKNESS, INSULATED, RIBBED, 20 GAUGE GAL STEEL, CHAIN HOIST OPERATION, INTERIOR MOUNTED, KEYED LOCK, TWO COAT BAKE-ON POLYESTER FINISH (WHITE).

BD BDD
EXT. FRAMES: FULL PROFILE WELDED, LEVEL 1, 0.042 INCH STL SHEET
EXT. DOORS: LEVEL 1, PP LEVEL C, MODEL 1

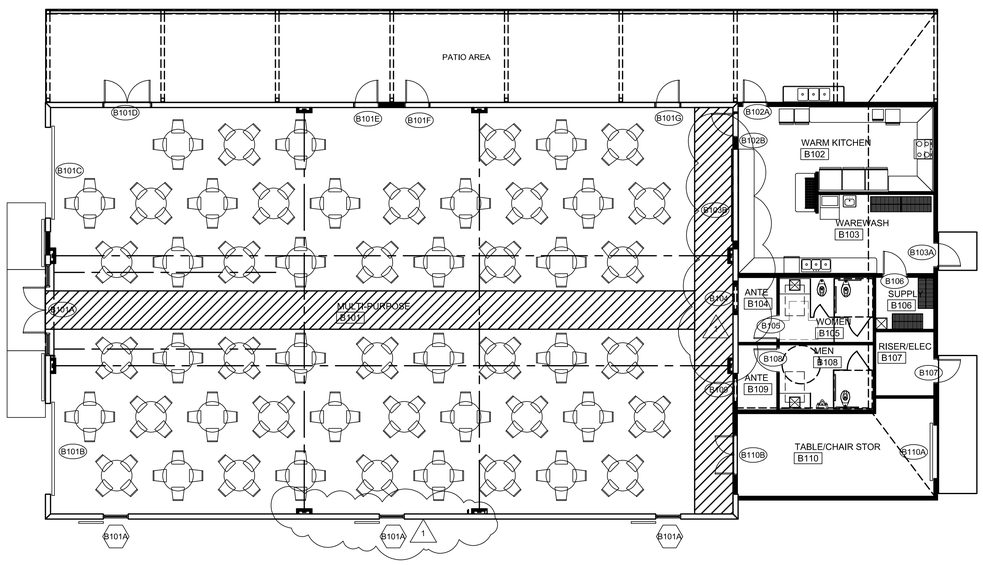
BE BEE
INT. FRAMES: FULL PROFILE WELDED, LEVEL 1, 0.042 INCH STL SHEET
INT. DOORS: SOLID-CORE WOOD, PANEL WDMA 1.S.1-A, HEAVY DUTY

BF
INT. FRAMES: FULL PROFILE WELDED, LEVEL 1, 0.042 INCH STL SHEET
STEEL FRAME ONLY

BG
OVERHEAD COUNTER DOOR: 640 SERIES BY OVERHEAD DOOR CORPORATION, 2" PANEL THICKNESS, ELECTRIC OPERATION, FUSIBLE LINK, INTERIOR FACE MOUNT, SLIDE LOCK, TWO COAT BAKE-ON POLYESTER FINISH (WHITE).

DOOR & FRAME ELEVATIONS (TYPES)

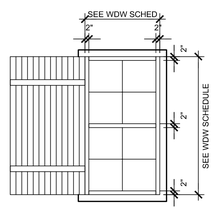
SCALE: 3/8" = 1'-0"

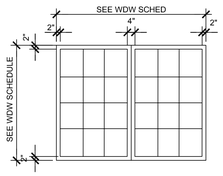


PROJ NORTH

FLOOR PLAN: THE ACTIVITY BARN - PHASE 2

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





A
KAWNEER TRIFAB 451T STOREFRONT SYSTEM CAPTIONED 4 SIDES

B
KAWNEER TRIFAB 451T STOREFRONT SYSTEM CAPTIONED 4 SIDES

WINDOW ELEVATIONS (TYPES)

SCALE: 3/8" = 1'-0"

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OPENINGS SCHEDULES

Retrofit & Renovations for
Madison Methodist Church
Phase 2: Activity Barn
1091 Confederate Highway
Madison, Georgia 30650

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OF

FINISH SCHEDULE

ABBREVIATIONS:

ACP	ACOUSTICAL CEILING PANELS	EPT	ENAMEL PANT	N/A	NOT APPLICABLE(NONE)	SS	SOLID SURFACE MATERIAL
BRK	BRICK	EHP	EXTERIOR HIGH PERFORMANCE COATING	PN.	PINE	STN	STONE
BRK-P	BRICK PAVERS	EPT	EXTERIOR PAINT SYSTEM	PLAS.	PLASTER	TRZ	TERRAZZO
CB	CERAMIC BASE	ES	EXPOSED STRUCTURE	PC	POLISHED CONCRETE	U	UNFINISHED
CFT	CERAMIC FLOOR TILE	EXG	EXISTING	PT.	PAINT	UND.	UNDERLAYMENT BOARD
CWT	CERAMIC WALL TILE	FF	FACTORY FINISH	PLYWD.	PLYWOOD.	VRN	VARNISH
CMU	CONCRETE MASONRY UNIT	GBB	GYPSUM BACKING BOARD	QT	QUARRY TILE	VCT	VINYL COMPOSITION TILE
CPT	CARPET	GYP.	GYPSUM BOARD	RB	RUBBER BASE	VS	VINYL SHEET FLOORING
CPT-T	CARPET TILE	GYP. X	GYPSUM BOARD, TYPE "X"	RCP	REFLECTED CEILING PLAN	WOC	WALK-OFF-CARPET
CS	CONC. SEALER	HPC	HIGH PERFORMANCE COATING	SHTG	SHEATHING	WC	WALL COVERING
CONC.	CONCRETE	IHP	INTERIOR HIGH PERFORMANCE COATING	SLT	SLATE	WD.	WOOD
		IPT	INTERIOR PAINT SYSTEM	S	STAIN	WP	WOOD PANEL
		ITP	INTUMESCENT PAINT SYSTEM				

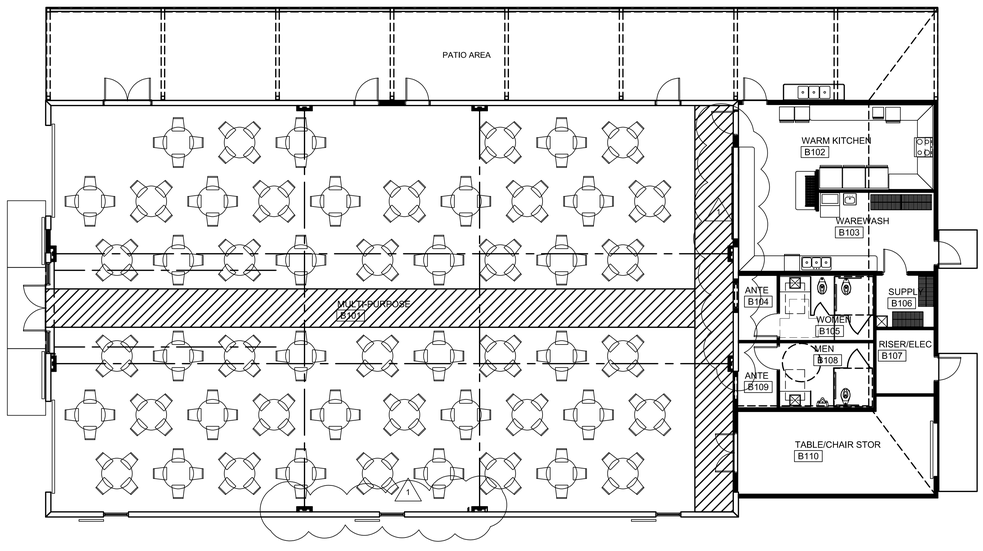
NOTE: AN ABBREVIATION PRECEDED WITH AN "E" INDICATES AN EXISTING CONDITION, MATERIAL, FINISH, ETC. NOTE: AN ABBREVIATION PRECEDED WITH AN "R" INDICATES AN EXISTING MATERIAL REFINISHED AND REUSED.

SPACE		FLOOR		BASE			WAINSCOT				WALLS									CEILING				REMARKS
											NORTH		EAST		SOUTH		WEST		D./W.					
RM. NO.	ROOM NAME	MAT'L	FIN	MAT'L	FIN	TYPE	MAT'L	FIN	TYPE	C. R. TYPE	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	TRIM	MAT'L	FIN	HEIGHT	CORN TYPE	
B101	MULTI-PURPOSE RM	CONC	CS	WD	PT	N/A	PLYWD	PT	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ES	ITP	VARIES	N/A	NOTE 5, 7, 12, & 14
B102	WARM KITCHEN	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 7 & 11
B103	WAREWASHING	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 7 & 11
B104	ANTE	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 7 & 11.
B105	WOMEN	CONC	FT	FT	FF	N/A	N/A	N/A	N/A	N/A	GBB	WT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 11 & 13
B106	SUPPLY	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 7 & 11
B107	RISER RM	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 7 & 11
B108	MEN	CONC	FT	FT	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GBB	WT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 11 & 13
B109	ANTE	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 7 & 11
B110	TABLE/CHAIR STOR	CONC	CS	RB	FF	N/A	N/A	N/A	N/A	N/A	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	N/A	ACP	FF	8'-0"	N/A	NOTE 7 & 11

FINISH NOTES:

1. PROPER PREPARATION OF SURFACES AND ADEQUATE CLEANING FOR BONDING OF PAINT IS AN ABSOLUTE NECESSITY. START OF PAINTING INSTALLATION AND OPERATIONS INDICATES ACCEPTANCE OF SUBSTRATE SURFACE CONDITIONS AND FULL RESPONSIBILITY FOR COMPLETED WORK.
2. WHERE EXISTING WALLS, FLOOR FINISHES, ETC. ARE SHOWN TO BE REMOVED, PROVIDE LEVEL SUBFLOOR SURFACE BY GRINDING DOWN THE EXISTING SLAB, PATCHING THE EXISTING SLAB, AND/OR INSTALLATION OF FLOOR LEVELING COMPOUND.
3. WHERE DIFFERENT FLOOR FINISHES MEET, PROVIDE & INSTALL VINYL TRANSITION, UNLESS OTHERWISE NOTED.
4. AV CONTROLS AREA WALLS TO BE CABINETRY FINISHES.
5. SEE INTERIOR ELEVATIONS FOR WALL FINISHES OTHER THAN GYPSUM WALL BOARD.
6. SEE REFLECTED CEILING PLANS FOR CEILINGS OTHER THAN EXPOSED STRUCTURE, GYPSUM BOARD, AND ACOUSTICAL CEILING PANELS.
7. EXTERIOR WALL INTERIOR FINISH: INSTALL NEW WALL FINISHES AFTER INSTALLATION OF WALL INSULATION, ELECTRICAL, PLUMBING, ETC.
8. SEE FLOOR PLAN FOR FLOOR FINISHES OTHER THAN EXPOSED CONCRETE.
9. PODIUM TREADS AND RISERS TO BE WOOD RECLAIMED FROM EXISTING SIDING.
10. INSTALL 5/8" GYPSUM BOARD TYPE "X" ON SUPPLEMENTAL 2X6 FRAMING AT 2'-0" O C AT EXISTING TRUSS BOTTOM CHORD.
11. INSTALL 5/8" GYPSUM BOARD TYPE "X" ON BOTTOM CHORD OF NEW TRUSSES WHERE SCHEDULE INDICATES ACP OR A FINISH OTHER THAN GYPSUM BOARD.
12. WHERE SHOWN TO PROVIDE INTUMESCENT PAINT ON EXISTING STRUCTURAL MEMBERS, PROVIDE FIRE RESISTANT INTUMESCENT PAINT.
13. FLOOR TO CEILING WALL TILE INSTALLATION ON WET WALL.
14. STEEL COLUMNS & BEAMS WRAPPED IN WOOD OVER GYPX.

BRAVO BLDG SET 08-31-2026

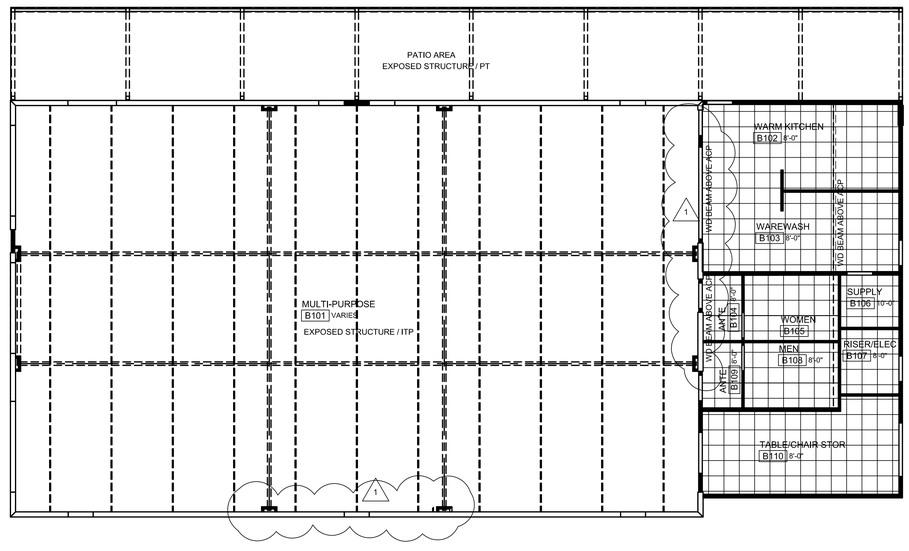


PROJ NORTH

FLOOR PLAN: THE ACTIVITY BARN - PHASE 2

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

SCALE IN FEET



PROJ NORTH

REFLECTED CEILING PLAN: THE ACTIVITY BARN - PHASE 2

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

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FINISH FLOOR PLAN, RCP, NOTES, & FINISH SCHEDULES

Retrofit & Renovations for Madison Methodist Church
Phase 2: Activity Barn

1091 Confederate Highway
Madison, Georgia 30650

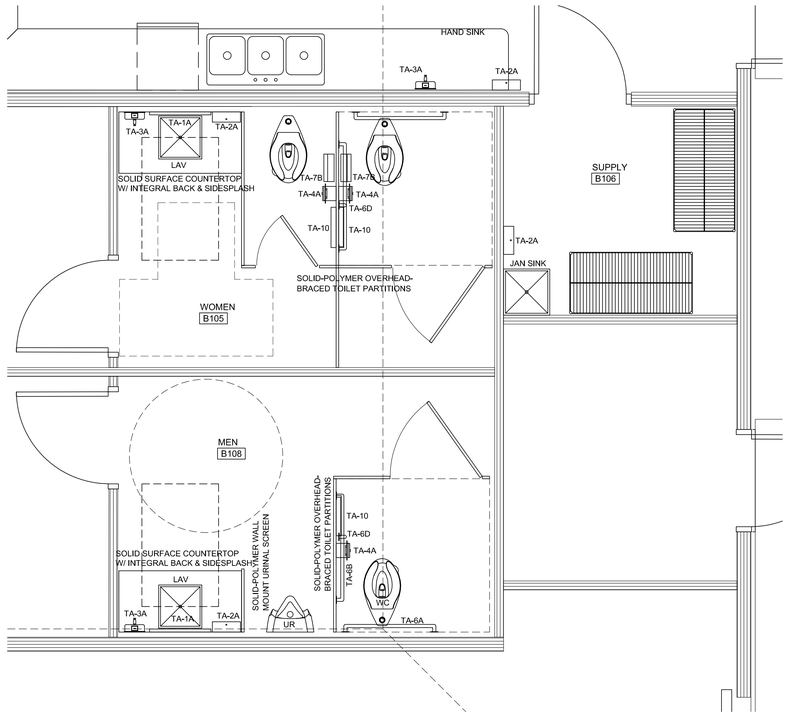
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CHECKED BY:	GM
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DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.12.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.26
REVISIONS:	
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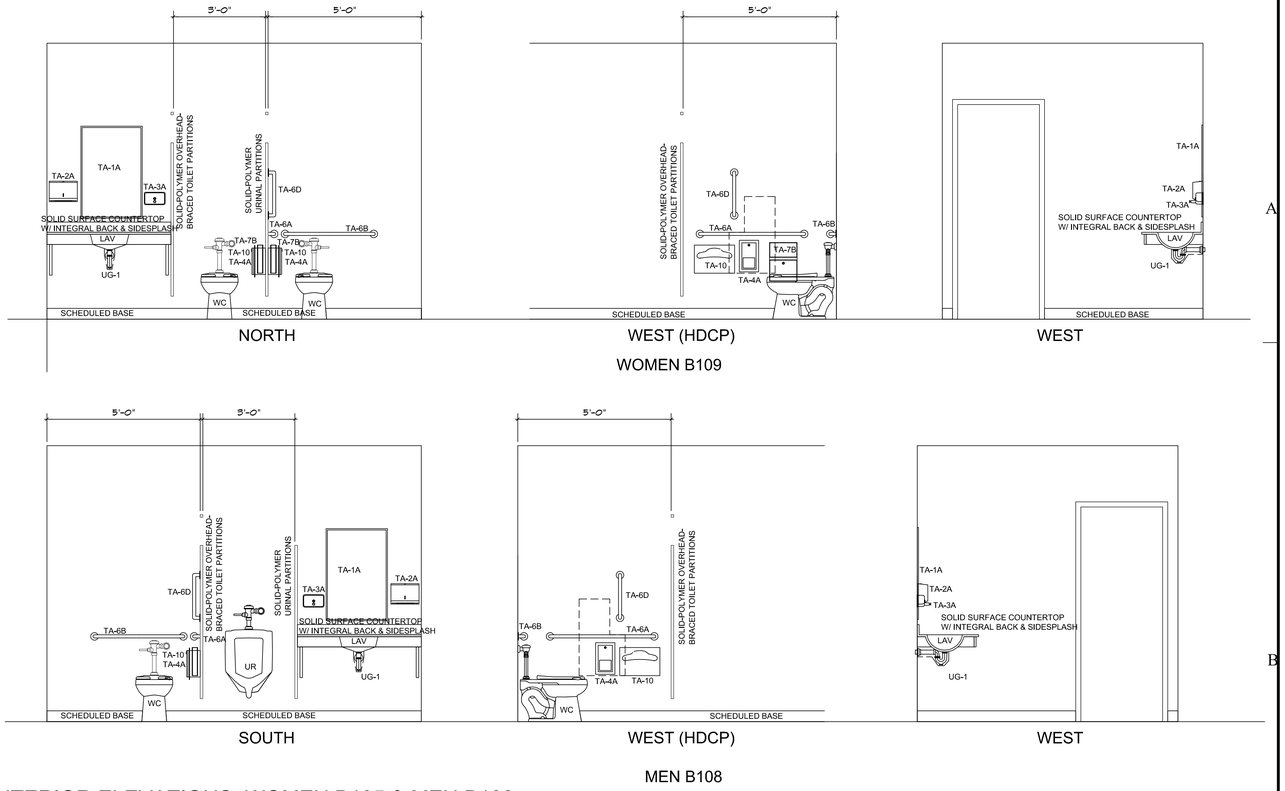
OF



PROJ NORTH

ENLARGED PLANS: WOMEN B105, SUPPLY B106, & MEN B108

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



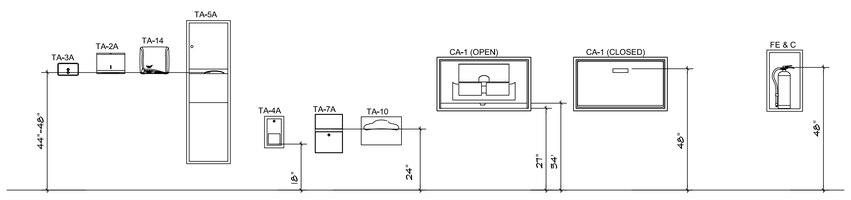
INTERIOR ELEVATIONS: WOMEN B105 & MEN B108

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

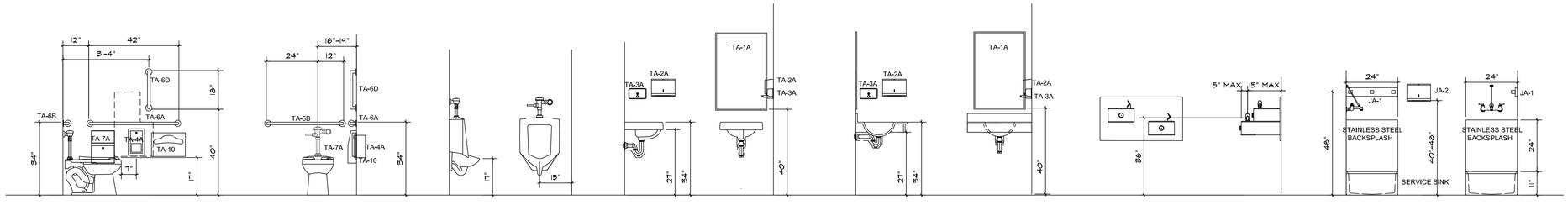
SCALE IN FEET

ACCESSORY SCHEDULE	
TA-1A	MIRROR UNIT: 24X36
TA-1B	MIRROR UNIT: CUSTOM SIZE
TA-2A	PAPER TOWEL DISPENSER (FOLDED)
TA-2B	PAPER TOWEL DISPENSER (ROLLED)
TA-3A	SOAP DISPENSER
TA-4A	TOILET TISSUE DISPENSER (ROLLED)
TA-4B	COMBINATION TOILET TISSUE DISPENSER (ROLLED)
TA-4C	TOILET TISSUE DISPENSER (FOLDED)
TA-4D	TOILET TISSUE DISPENSER (JUMBO ROLLED)
TA-5A	COMBINATION TOWEL DISPENSER (FOLDED) / WASTE RECEPTACLE
TA-5B	COMBINATION TOWEL DISPENSER (ROLLED) / WASTE RECEPTACLE
TA-5C	MULTIPURPOSE SOAP / TOWEL DISPENSER
TA-6A	GRAB BAR 42
TA-6B	GRAB BAR 36
TA-6C	GRAB BAR 24
TA-6D	GRAB BAR 18
TA-7A	SANITARY NAPKIN DISPOSAL (WALL MOUNT)
TA-7B	SANITARY NAPKIN DISPOSAL (PARTITION MOUNT/DUAL ACCESS)
TA-8	ROBE HOOK
TA-9	WASTE RECEPTACLE
TA-10	SEAT COVER DISPENSER
TA-11	VENDING
TA-12	BAG SHELF
TA-13	SEAT COVER DISPENSER
TA-14	HAND DRYER
CA-1	CHANGING STATION
CA-2	CHILD PROTECTION SEAT
UG-1	UNDERLAVATORY GUARDS
JA-1	MOP AND BROOM HOLDER
JA-2	PAPER TOWEL DISPENSER

BRAVO BLDG SET 08-31-2026



TYPICAL MOUNTING AND LOCATION OF ACCESSORIES



TYPICAL ACCESSIBLE TOILET | TYPICAL ACCESSIBLE URINAL | TYP ACCESS WALL MOUNT SINK | TYP ACCESS WALL MOUNT LAVATORY | TYP ACCESS WALL MOUNT DRINKING FOUNTAINS | TYPICAL FLOOR MOUNT SERVICE SINK

INTERIOR ELEVATIONS: MOUNTING & LOCATION REQUIREMENTS

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

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ENLARGED PLANS & INTERIOR ELEVATIONS

Retrofit & Renovations for Madison Methodist Church Phase 2: Activity Barn

Madison, Georgia 30650

1091 Confederate Highway

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OF

GENERAL

1. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. COORDINATE THESE DRAWINGS WITH EXISTING CONDITIONS, AND COORDINATE ALL DIMENSIONS AND WALL LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS.
2. THE STRUCTURAL DRAWINGS SHOULD NOT BE USED TO SIZE OR LOCATE DOORS, WINDOWS, TOILET PARTITIONS, OR NON-LOAD BEARING WALLS.
3. SEE ARCHITECTURAL FOR ALL EXPANSION JOINT COVERS.
4. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2024 INTERNATIONAL BUILDING CODE, WITH GEORGIA AMENDMENTS.
5. DESIGN LOADS:

   LIVE LOAD INFORMATION
   A. ROOF LIVE LOAD (REDUCED FOR TRIBUTARY AREA) = 20 PSF

   ROOF DEAD LOADING INFORMATION
   A. 10.0 PSF WOOD TRUSSES, DECKING, ROOFING AND INSULATION
   B. 6.0 PSF COLLATERAL LOAD (LIGHTS, HVAC, SPRINKLER, ETC.)
   C. SEE FRAMING PLAN FOR OTHER CONCENTRATED LOADS

   SNOW LOAD INFORMATION
   A. GROUND SNOW LOAD (PG) = 5 PSF
   B. FLAT-ROOF SNOW LOAD (PF) = 5.5 PSF
   C. SNOW EXPOSURE FACTOR (CE) = 1.0
   D. SNOW LOAD IMPORTANCE FACTOR(IS) = 1.1
   E. THERMAL FACTOR (CT) = 1.0

   WIND LOAD INFORMATION
   A. ULT. WIND SPEED = 118 MPH
   B. ASD WIND SPEED = 85 MPH
   C. WIND IMPORTANCE FACTOR (IW) = 1.1
   D. RISK CATEGORY = II
   E. WIND EXPOSURE = C
   F. INTERNAL PRESSURE COEFFICIENT = +/- 0.18
   G. COMPONENTS AND CLADDING = VARIES

   SEISMIC DESIGN INFORMATION
   A. SEISMIC IMPORTANCE FACTOR (IE) = 1.0
   B. SEISMIC DESIGN CATEGORY = C
   C. 0.2 SECOND SPECTRAL RESPONSE ACCELERATION (SS) = 0.22
   D. 1 SECOND SPECTRAL RESPONSE ACCELERATION (S1) = 0.084
   E. 0.2 DESIGN SPECTRAL RESPONSE ACCELERATION (SDS) = 0.235
   F. 1 DESIGN SECOND SPECTRAL RESPONSE ACCELERATION (SD1) = 0.134
   G. SITE CLASS = D (PER GEOTECHNICAL REPORT)
   H. RESPONSE MODIFICATION COEFFICIENT (R) = 3.5
   I. SYSTEM OVERSTRENGTH FACTOR = 3
   J. DEFLECTION AMPLIFICATION FACTOR (CD) = 4
   K. SEISMIC RESPONSE COEFFICIENT (CS) = 0.013
   L. DESIGN BASE SHEAR (VX) = VARIES
   M. BASIC SEISMIC FORCE RESISTING SYSTEM - EXISTING WOOD SHEAR WALLS
   N. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE
   O. SEISMIC RISK CATEGORY = III

   RAIN INTENSITY FACTOR = 4.0 INCHES PER HOUR

6. ALL THE SAFETY REGULATIONS, METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING, AND FRAMEWORK, ETC. AS REQUIRED.
7. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER FOR CLARIFICATION.
8. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
9. ISOMETRIC VIEWS ARE FOR ILLUSTRATIVE PURPOSES ONLY. NO INFORMATION ABOUT THE STRUCTURE OR ITS COMPONENTS SHALL BE TAKEN OR ASSUMED FROM THEM.
10. CONTRACTOR SHALL TAMP THE VIRGIN SOIL AFTER EXCAVATION UNTIL NO VISIBLE SOIL RUTTING OCCURS FOR THE FULL SIZE OF THE FOOTING. IF SOIL TAMPING DOES NOT COMPACT SOIL TO THIS CRITERIA, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE SOIL REMEDIATION REQUIREMENTS.

SUBMITTALS

1. THE CONTRACT DOCUMENTS ARE THE STRUCTURAL ENGINEER'S INSTRUMENTS OF SERVICE TO CONVEY DESIGN INTENT. THEY ARE NOT TO BE CONSIDERED FABRICATION OR LAYOUT DRAWINGS.
2. THE FOLLOW ARE REQUIRED SUBMITTALS
   A. CONCRETE MIX DESIGN(S)
   B. REINFORCING BAR DRAWINGS
   C. WOOD TRUSSES
   D. STRUCTURAL STEEL
   E. OTHER SUBMITTALS AS NOTED ON THE DRAWINGS AND SPECIFICATIONS
3. SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER AND SHALL BEAR THE CONTRACTOR'S STAMP ATTESTING TO THE DRAWINGS NOT STAMPED WILL NOT BE REVIEWED. SUBCONTRACTOR'S UNCHECKED SUBMITTAL DRAWINGS WILL NOT BE REVIEWED.
4. SUBMITTALS TO BE REVIEWED BY THE STRUCTURAL ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT. THE STRUCTURAL ENGINEER WILL NOT ACCEPT SUBMITTALS DIRECTLY FROM CONTRACTORS WITHOUT THE STRUCTURAL ENGINEER'S PRIOR APPROVAL.
5. UPON COMPLETION OF THE STRUCTURAL ENGINEER'S REVIEW, SUBMITTALS WILL BE RETURNED TO THE ARCHITECT FOR THEIR REVIEW.
6. ANY DEVIATION IN DESIGN, DETAILS, DIMENSIONS, ETC. FROM THE CONSTRUCTION DOCUMENTS SHALL BE CLOUDED ON THE SUBMITTAL AND VERIFICATION OF THE CHANGE SHALL BE REQUESTED.

STRUCTURAL LUMBER & TRUSSES

1. PROVIDE SOUTHERN SPECIES PLYWOOD RATED FOR INDICATED SPANS AND LOADS BY AMERICAN PLYWOOD ASSOCIATION. INSTALL IN ACCORDANCE WITH ALL RECOMMENDATIONS BY THE AMERICAN PLYWOOD ASSOCIATION INCLUDING SIZE AND SPACING OF FASTENERS.
2. ROOF TRUSS DESIGN LOADS SHALL BE AS FOLLOWS:

   ROOF
   TOP CHORD LIVE LOAD..... 20 PSF
   TOP CHORD DEAD LOAD..... 10 PSF
   BOTTOM CHORD LIVE LOAD..... 0 PSF
   BOTTOM CHORD DEAD LOAD..... 10 PSF
   TOP CHORD WIND UPLIFT LOAD..... IN ACCORDANCE W/ ASCE7-05

   SEE GENERAL NOTES FOR OTHER DESIGN LOADS. SEE PLANS FOR ADDITIONAL POINT LOADS.
3. TRUSSES SHALL BE DESIGNED AND FABRICATED BY THE TRUSS MANUFACTURER. DESIGN SHALL CARRY THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF PROJECT LOCATION. CONFIGURATION AND SIZE OF WEB MEMBERS SHALL BE DETERMINED BY THE TRUSS MANUFACTURER. SHOP DRAWINGS AND CALCULATIONS FOR TRUSSES SHALL BE SUBMITTED FOR APPROVAL BEFORE FABRICATION. TRUSS SHOP DRAWINGS SHALL BE AVAILABLE AT THE SITE.
4. MAXIMUM LIVE LOADS DEFLECTION FOR ROOF TRUSSES = L/240
5. LOADS ABOVE SHALL BE UTILIZED IN THE DESIGN OF GIRDER TRUSSES.
6. BOTTOM AND TOP CHORDS OF ALL ROOF TRUSSES SHALL BE TEMPORARILY BRACED BY 1" X 4" X 8.8' AT 10 FEET ON CENTER. ALL ADDITIONAL PERMANENT BRACING AS REQUIRED BY STRUCTURAL DESIGN OF THE TRUSSES AND FOR STABILITY OF THE TRUSSES SHALL BE INDICATED ON THE SHOP DRAWINGS. BRACING SHALL BE X - TYPE WITH HORIZONTAL STRUTS TOP AND BOTTOM BETWEEN NO LESS THAN 4 TRUSSES, SPACED AT 20 FEET MAXIMUM. BRACING SHALL BE ATTACHED TO EACH TRUSS.
7. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR THE TRUSSES DURING ERECTION.
8. TRUSS DESIGN SHALL ACCOUNT FOR LOAD IMPOSED UPON TRUSSES BY WEIGHT OF MECHANICAL UNITS. SEE MECHANICAL PLANS FOR UNIT LOCATION. VERIFY WEIGHT OF UNIT W/ EQUIPMENT SELECTED.

WOOD NOTES:

1. WOOD CONNECTIONS SHALL FOLLOW THE MINIMUM REQUIREMENTS OF THE 2024 INTERNATIONAL BUILDING CODE TABLE 2304.9.1 UNLESS NOTED ON THE DRAWINGS TO REQUIRE ADDITIONAL FASTENERS.
2. INSTALL ALL WOOD CONSTRUCTION CONNECTORS ACCORDING TO THE REQUIREMENTS SET BY THE MANUFACTURER.
3. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
4. STRUCTURAL LUMBER SHALL BE SOUTHERN PINE GRADE #2 OR EQUAL, UNLESS NOTED AS GRADE #.
5. PROVIDE DOUBLE JOISTS UNDER ALL NON-LOAD BEARING PARTITIONS PARALLEL TO THE SPAN OF THE FLOOR JOISTS.
6. PROVIDE SOLID BLOCKING BETWEEN FLOOR JOISTS UNDER WALLS THAT ARE PERPENDICULAR TO THE FLOOR TRUSSES.
7. ALL STRUCTURAL WOOD USED IN THE CONSTRUCTION OF STEPS, PORCHES, AND DECKS, OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED. (UNO.)
8. ALL PRE-ENGINEERED LUMBER SPECIFIED AS LVL'S ON THESE DRAWINGS SHALL BE PRODUCED BY "TRUSS JOIST BY WEYERHAEUSER" OR APPROVED EQUAL WITH MANUFACTURERS DETAILED DESIGN PROPERTIES FOR THE SECTIONS USED IN THIS SET OF DRAWINGS. THE MINIMUM DESIGN PROPERTIES SHALL INCLUDE:
   E: 2,000,000 PSI
   Fb: 2,600 PSI
   Fc PERPENDICULAR: 750 PSI
9. WALL SHEATHING SHALL BE CONTINUOUS OVER RIM JOIST TO TOP PLATE. ALL WALL AND FLOOR SHEATHING SHALL BE BLOCKED AT PANEL JOINTS AND NO MORE THAN FOUR FEET ON CENTER VERTICALLY.

   ROOF SHEATHING:
   THE ROOF SHEATHING SHALL BE 5/8" THICK (MIN.) 24/16 APA-RATED PLYWOOD, WITH Ø.131" DIAMETER X 2.5" LONG (RING SHANK) NAILS AT 3" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD.

   FLOOR SHEATHING:
   THE FLOOR SHEATHING SHALL BE 3/4" THICK (MIN.) 24/16 APA-RATED PLYWOOD, WITH Ø.131" DIAMETER X 2.5" LONG (RING SHANK) NAILS AT 3" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD.

   SHEARWALL SHEATHING:
   SHEARWALLS SHALL BE SHEATHED WITH 15/32" (MIN.) 24/16 APA-RATED OSB OR PLYWOOD, WITH Ø.131" DIAMETER X 2.5" LONG (8D COMMON) NAILS AT 3" ON CENTER AT ALL PANEL EDGES AND BOUNDARIES, AND 12" ON CENTER IN THE FIELD. BLOCK ALL EDGES OF PLYWOOD.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, AND SHALL BE FREE FROM ANY FORM RELEASE AGENTS.
2. REINFORCING BENDS SHALL CONFORM TO CRSI.
3. WELDED WIRE FABRIC SHALL BE SHEETS OF NEW BILLET STEEL COLD DRAWN, CONFORMING TO ASTM SPECIFICATION A185, GRADE 60.
4. REINFORCING IS TO BE SUPPORTED AND SPACED WITH WIRE BAR SUPPORTS ACCORDING TO CRSI "PLACING REINFORCING BARS" UNLESS NOTED OTHERWISE.
5. BAR SUPPORTS, DESIGN, DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318 AND "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.
6. SPLICES FOR CONTINUOUS BARS SHALL BE CLASS B, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
7. PROVIDE BENT HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF ALL WALLS AND FOOTINGS. BENT BARS ARE TO MATCH THE SIZE AND SPACING OF HORIZONTAL BARS IN WALL OR FOOTING. USE CLASS B SPLICE EACH SIDE.
8. PROVIDE DIAGONAL BARS AT CORNERS OF OPENINGS IN SLABS AND CONCRETE WALLS. SEE DETAILS "RECTANGULAR OPENING WALL SLAB" AND "CIRCLE OPENING WALL SLAB". PROVIDE 2" CLEAR COVER BETWEEN THE OPENING AND THE CORNER REINFORCING BARS.
9. WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMN FOOTING.
10. EXTEND ALL FOOTING REINFORCEMENT TO FAR SIDE OF FOOTING. SEE NOTE BELOW FOR CONCRETE COVERAGE.
11. PROVIDE DOWELS IN WALL FOOTING TO MATCH WALL VERTICALS UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE CLASS B SPLICE. USE STANDARD ACI 90 DEGREE HOOK WITH 3" CLEAR TO BOTTOM OF FOOTING UNLESS NOTED OTHERWISE. SEE DETAIL "CORNER BAR & SPLICE LENGTH DETAIL (IN CONCRETE)"

CLASS B SPLICE OR CORNER BAR PER ACI 318

BAR #	3000 PSI CONCRETE		4000 PSI CONCRETE		5000 PSI CONCRETE	
	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)	MIN. SPLICE (INCHES)	MIN. SPLICE (BAR DIAM.)
4	29		25		24	
5	36	57	31	50	28	45
6	43		37		34	
7	63		54		49	
8	72		62		56	
9	81	72	70	62	63	56
10	89		78		69	
11	98		85		76	

12. MINIMUM CONCRETE COVERAGE SHALL BE AS FOLLOWS. IF CONSTRUCTION DOCUMENTS INDICATE A LARGER COVERAGE, IT SHALL BE USED. IF STIRRUPS, TIES, OR SPIRALS ARE USED, COVERAGE SHALL BE TO THE OUTERMOST FACE OF THESE ELEMENTS.
   A. FOOTINGS, CAISSONS, AND OTHER MEMBERS WHERE CONCRETE IS DEPOSITED AGAINST SOIL (EXCEPT SLABS ON GRADE) = 3"
   B. CONCRETE EXPOSED TO WEATHER OR SOIL BUT IS NOT DEPOSITED AGAINST SOIL:
      #6 BAR AND LARGER = 2"
      #5 BAR AND SMALLER = 1 1/2"
   C. CONCRETE NOT EXPOSED TO WEATHER OR SOIL:
      SLABS, WALLS, JOISTS #14 BAR AND LARGER = 1 1/2"
      SLABS, WALLS, JOISTS #11 BAR AND SMALLER = 3/4"
      BEAMS AND COLUMNS = 1 1/2"

FOUNDATIONS

1. THE FOUNDATION IS DESIGNED USING AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF BASED ON 2024 IBC SECTION 1806. IF THE BEARING CONDITIONS VARY FROM WHAT IS SHOWN, OR IF THE SOIL BEARING CAPACITY IS QUESTIONABLE, THE ARCHITECT AND STRUCTURAL ENGINEER ARE TO BE NOTIFIED IMMEDIATELY.
2. ALL BUILDING AREAS SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AT OPTIMUM OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D698, CURRENT EDITION.
3. A REGISTERED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER SHALL BE PRESENT TO MONITOR COMPACTION AND SETTLEMENT AND VERIFY THE BEARING CAPACITY; ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ON-SITE GEOTECHNICAL ENGINEER.
4. REMOVE ALL TOPSOIL, ROOT SYSTEM OR OTHER DELETERIOUS MATERIAL UNDER PROPOSED SLAB AND COLUMN FOOTINGS AND REPLACE WITH SUITABLE COMPACTED FILL OR CRUSHED STONE, STRUCTURAL ENGINEER'S DECISION ON QUESTIONABLE MATERIAL SHALL BE FINAL
5. BACKFILLING SHALL BE PERFORMED IN EQUAL LIFTS AROUND THE BUILDING PERIMETER TO BALANCE LATERAL EARTH PRESSURE ON THE BUILDING. WALK BEHIND COMPACTION EQUIPMENT IS REQUIRED WITHIN A DISTANCE OF TWO TIMES THE WALL HEIGHT.
6. BACKFILL AGAINST STRUCTURAL WALLS SHALL NOT BE PERFORMED UNTIL WALL AND SLAB ON GRADE HAS OBTAINED SPECIFIED STRENGTH.
7. IF REQUIRED BY THE GEOTECHNICAL REPORT OR THE ON-SITE GEOTECHNICAL ENGINEER, THE GROUND WATER TABLE SHALL BE LOWERED.
8. ALL FOOTINGS TO BE CENTERED UNDER THE COLUMNS OR WALLS THEY SUPPORT, UNLESS NOTED OTHERWISE ON THE DRAWING.
9. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL IN WRITING. THE CONTRACTOR SHALL LOCATE ANY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION.
10. INSPECTIONS BY GEOTECH FIRM ARE REQUIRED FOR EXISTING SOILS CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS:
    A. SITE PREPARATION: PRIOR TO PLACEMENT OF PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.
    B. FILL PLACEMENT: DURING PLACEMENT AND COMPACTION OF FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE PROPER FILL MATERIAL IS BEING USED AND THAT THE MAXIMUM LIFT THICKNESS IS FOLLOWED IN ACCORDANCE WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.
    C. EVALUATION OF IN-PLACE DENSITY: THE INSPECTOR SHALL DETERMINE, AT THE FREQUENCIES DETERMINED IN THE SOILS REPORT AND PROJECT SPECIFICATIONS, THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.

CONCRETE

1. ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE CODE REFERENCED EDITION OF ACI-318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
2. CONCRETE MIX DESIGN REQUIREMENTS AND COMPRESSIVE STRENGTH AT 28 DAYS.

DESCRIPTION	28 DAY STRENGTH (PSI)	WEIGHT PER CUBIC FOOT (PCF)	SLUMP AT POINT OF PLACEMENT	AGGREGATE	FIBERMESH OR WWM
FOOTING AND FOUNDATION WALLS	3000	145	4" +/- 1"	ASTM C33	NONE
SLAB ON GRADE	3000	145	4" +/- 1"	ASTM C33	FIBERMESH @ 1.5LB PER CUBIC YARD OF CONC.
EXTERIOR SLAB ON GRADE	4500	145	4" +/- 1"	ASTM C33	WWM 6X6 W1.4 X W1.4

FLY ASH SHALL NOT BE USED. WATER REDUCING ADMIXTURES MAY BE USED TO ACHIEVE SLUMP REQUIREMENTS.

3. SEE ARCHITECTURAL DOCUMENTS FOR JOINT SIZES AND FILLER MATERIALS.
4. LOCATION OF ALL CONSTRUCTION JOINTS, EXCLUDING SLABS ON GRADE, SHALL BE COORDINATED WITH STRUCTURAL ENGINEER.
5. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER SHOWING PROPOSED LOCATIONS OF ANY MATERIAL SUCH AS BUT NOT LIMITED TOO CONDUITS, EMBEDMENTS, OR FIXTURES TO BE PLACED INSIDE ANY STRUCTURAL CONCRETE MEMBER SUCH AS BEAMS, WALLS, SLABS, COLUMNS OR FOOTINGS. THIS IS NOT REQUIRED FOR SLABS ON GRADE OF 4" OR LESS IN THICKNESS.
6. CONCRETE SLAB FLATNESS AND LEVELNESS TOLERANCES SHALL BE IN CONFORMANCE WITH ACI 117, AND SHALL BE SPECIFIED BY THE OWNER UNLESS SUPERSEDED BY THE OWNER'S CRITERIA, CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:
    A. PROVIDE A FLOOR SURFACE WHICH IS TRUE AND LEVEL AND ACHIEVES "F NUMBERS" OF FF = 30 AND FL = 20 MINIMUM OVERALL COMPOSITE AND FF = 20 AND FL = 15 MINIMUM AT ANY INDIVIDUAL SECTION, WHEN TESTED IN ACCORDANCE WITH ASTM E1155. REMOVE SURFACE IRREGULARITIES TO PROVIDE A CONTINUOUS SMOOTH FINISH.
    B. ALL INTERIOR SLABS TO RECEIVE A SMOOTH TROWEL FINISH UNLESS NOTED.
7. UNLESS SPECIFIED OTHERWISE IN THE SPECIFICATION, TESTING OF CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF ACI 318 SECTION 5.6 "EVALUATION AND ACCEPTANCE OF CONCRETE".
8. CONSTRUCTION JOINTS (CNJT.) ARE TO BE LOCATED ON THE THRESHOLD SIDE OF A WALL.
9. SEE DETAIL "TYPICAL SLAB ON GRADE JOINT LAYOUT".
10. THE FOLLOWING PROCEDURES SHALL MEET THE REQUIREMENTS OF THE REFERENCED CODE SECTIONS:

PROCEDURE	REFERENCE SECTION
PREPARATION	ACI 304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
CONVEYING	ACI 318 SECTION 5.9 - "CONVEYING"
DEPOSITING	ACI 318 SECTION 5.10 - "DEPOSITING"
CONSOLIDATION	ACI 309 - "GUIDE FOR CONSOLIDATION OF CONCRETE"
CURING	ACI 308 - "STANDARD PRACTICE FOR CURING CONCRETE"
HOT WEATHER CONCRETING	ACI 305 - "HOT WEATHER CONCRETING"
COLD WEATHER CONCRETING	ACI 306 "COLD WEATHER CONCRETING"

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CODE-REFERENCED AISC MANUAL OF STEEL CONSTRUCTION, SPECIFICATION FOR STEEL BUILDINGS, AND CODE OF STANDARD PRACTICE.
2. STEEL FABRICATOR SHALL BE CURRENTLY CERTIFIED BY THE AISC QUALITY CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATIONS AND DESIGNATED AS "AISC CERTIFIED BUILDING FABRICATOR CATEGORY BU". CONTRACTOR SHALL SUBMIT IN WRITING TO THE STRUCTURAL ENGINEER, AT THE TIME OF PROOF OF CERTIFICATION FOR THE STEEL FABRICATOR(S) SUPPLYING STRUCTURAL STEEL.
3. MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   A. W-SHAPES = ASTM 992
   B. HOLLOW STRUCTURAL SHAPES = ASTM A500, GRADE B
   C. PLATES, BARS, ANGLES, C-SHAPES, MC-SHAPES = ASTM A36
   D. PIPES = ASTM A53, GRADE B
   E. WELDING ELECTRODES = E70XX
4. ALL ANCHOR BOLTS SHALL BE SIZE AND STRENGTH SPECIFIED ON THESE DRAWINGS.
5. ALL BEAM END CONNECTIONS SHALL BE AISC DOUBLE ANGLE BOLTED-WELDED CONNECTIONS WITH 3/4" DIA. A325N BOLTS UNO. THE WELD SHALL BE 1/4" SIZED FULL LENGTH OF ANGLE PLUS 1" TOP AND BOTTOM. DESIGN SHEAR SHALL BE THE GREATER OF:
   A. THE SHEAR REACTION SHOWN ON DRAWINGS (IF ANY.)
   B. 50% OF THE VALUE FROM THE "MAXIMUM TOTAL UNIFORM LOAD IN KIPS" TABLES OF THE AISC 13TH EDITION (BLACK BOOK) OR
   C. THE MINIMUM NUMBER OF BOLTS IN SINGLE SHEAR AS FOLLOWS:

BEAM SHAPE*	# OF 3/4" DIA. A325 BOLTS	LENGTH OF L.L 3 1/2"x3 1/2"x5/16"
W8 , W10	4	5 1/2
W12 , W14	6	8 1/2
W16 , W18	8	11 1/2
W21	10	14 1/2
W24	12	17 1/2
W27	14	20 1/2
W30	16	23 1/2

WHERE CONNECTIONS ARE SKEWED OR THE DOUBLE ANGLE CONNECTIONS ABOVE WILL NOT FIT, THE FOLLOWING CONNECTIONS SHALL BE USED:

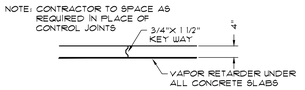
END OF BEAM CONNECTIONS*

BEAM SHAPE*	# OF 3/4" DIA. A325 BOLTS	1/2" SHEAR TAB LENGTH**
W8 , W10	2	5 1/2
W12 , W14	3	8 1/2
W16 , W18	4	11 1/2
W21	5	14 1/2
W24	6	17 1/2
W27	7	20 1/2
W30	8	23 1/2

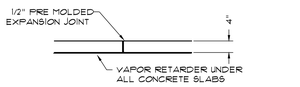
*WHEN THE SHEAR TAB CONNECTION ABOVE DOES NOT FIT IN THE BEAM WEB, USE THE ADJACENT SMALLER CONNECTION AND CLOUD ON SHOP DRAWINGS.

**WELD PLATE TO SUPPORTING MEMBER WITH 5/16" WELD ALL AROUND. SHEAR TAB TO BE 1/2" THICK X 4" WIDE.

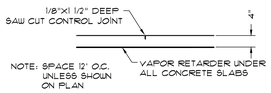
6. ALL BOLTED CONNECTION SHALL BE FULLY PRETENSIONED ACCORDING TO THE REQUIREMENTS OF "AISC MANUAL OF STEEL CONSTRUCTION" UTILIZING DIRECT TENSION INDICATORS OR AN APPROVED INSTALLATION METHOD IN WRITING FROM THE ENGINEER OF RECORD.
7. WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELD REQUIRED. WELDER CERTIFICATION SHALL BE SUBMITTED FOR REVIEW.
8. WELD LENGTHS NOT NOTED SHALL BE FULL LENGTH. TERMINATE WELDS IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION AND AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE - STEEL (D1.1).
9. HOLES LARGER THAN 1" DIA. SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. HOLES SHALL BE PUNCHED OR DRILLED. EXCEPT AS OTHERWISE PERMITTED THE STRUCTURAL ENGINEER.
10. PROTECT COLUMNS, BASE PLACES, ANCHOR BOLTS, AND ANY STEEL BELOW GRADE WITH AN APPROVED INORGANIC OR EPOXY ANTI-CORROSION COATING. FIELD APPLIED PER MANUFACTURER'S INSTRUCTIONS.
11. ALL EXPOSED STRUCTURAL STEEL INCLUDING LINTELS, AND AS NOTED ON DRAWINGS, SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A123.FASTENERS AND SMALL PARTS REQUIRING GALVANIZING SHALL BE IN CONFORMANCE WITH ASTM A153.
12. THE CONTRACTORS SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS SUFFICIENT TO SECURE THE STRUCTURAL STEEL FRAMING AGAINST LOADS PRESENT DURING ERECTION. TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL CONNECTIONS TO THE LATERAL LOAD RESISTING SYSTEM, INCLUDING HORIZONTAL DIAPHRAGMS, ARE COMPLETE.
13. THE GENERAL CONTRACTOR SHALL VERIFY THAT THE CORRECT BEAM AND GIRDER CAMBER IS PRESENT AFTER ERECTION AND BEFORE FLOOR SLAB IS POURED.
14. SPLICE CONTINUOUS STEEL ANGLES AND PLATES WITH PARTIAL-JOINT-PENETRATION SQUARE GROOVE WELDS (JOINT DESIGNATION B-P1A) U.N.O.
15. STRUCTURAL STEEL FABRICATOR AND DETAILER SHALL SEE THE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL STEEL NOT SHOWN OR CALLED OUT IN THESE DRAWINGS. IF SIZE IS NOT SHOWN IN ARCHITECTURAL DRAWINGS A REQUEST OR INFORMATION SHALL BE SENT TO THE STRUCTURAL ENGINEER THROUGH THE PROPER CHANNELS.
16. GENERAL CONTRACTOR SHALL COORDINATE CONNECTIONS OF JOIST AND JOIST GIRDERS TO STRUCTURAL STEEL.



TYPICAL CONSTRUCTION JOINTS (CNJT.)
N.T.S.



TYPICAL ISOLATION JOINT (I. JT.)
N.T.S.



TYPICAL CONTROL JOINT (C.J.)
N.T.S.

SAW CUTTING CONTROL JOINTS IS AN ATTEMPT TO PARTIALLY CONTROL THE SHRINKAGE CRACKS THAT NATURALLY OCCURS IN CONCRETE DURING THE CURING PROCESS. SOMETIMES THE CONCRETE WILL CRACK BETWEEN CONTROL JOINTS.

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GENERAL NOTES

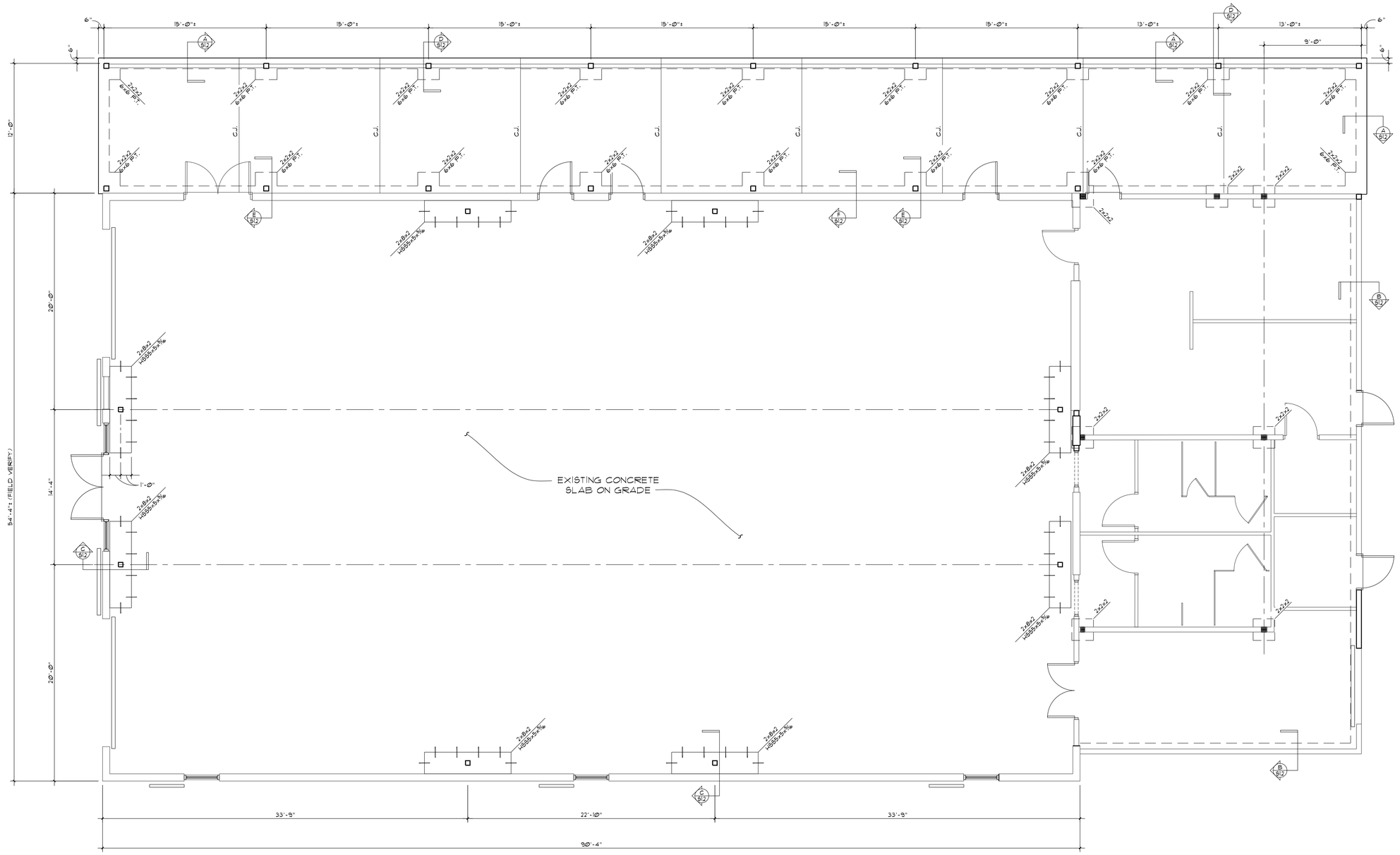
Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

1091 Confederate Highway — Madison, Georgia 30650

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CHECKED BY:	G. KORNEGAY
DESCRIPTION:	SCH-REVIEW-P2
DATE:	00.00.26
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.03.26
DESCRIPTION:	BID-CONSTRUCTION
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FOUNDATION PLAN
SCALE: 1/4"=1'-Ø"

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FOUNDATION PLAN

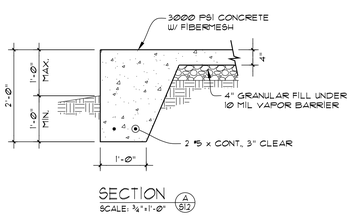
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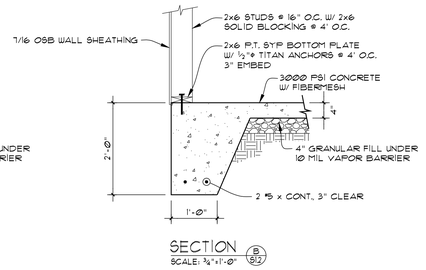
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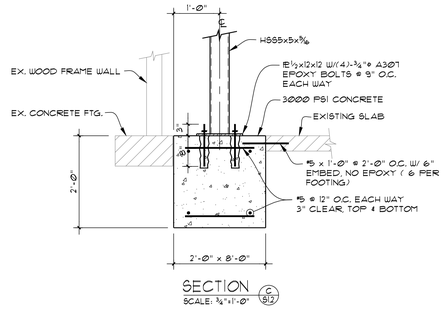
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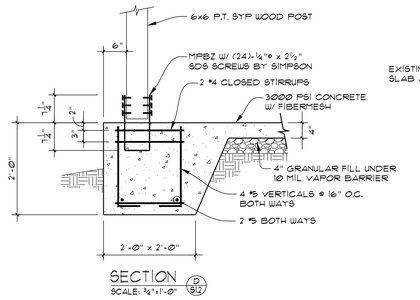
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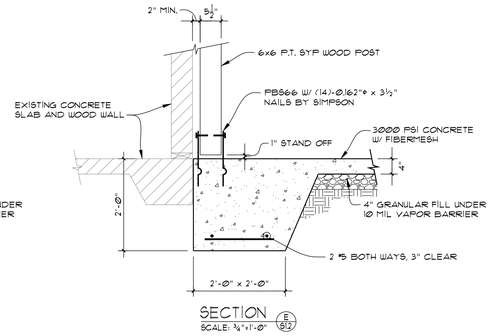
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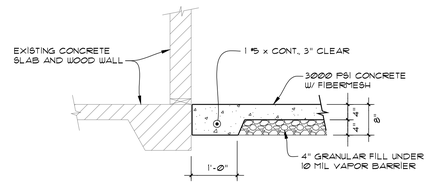
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SECTION (F/S1.2)
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FOUNDATION SECTIONS

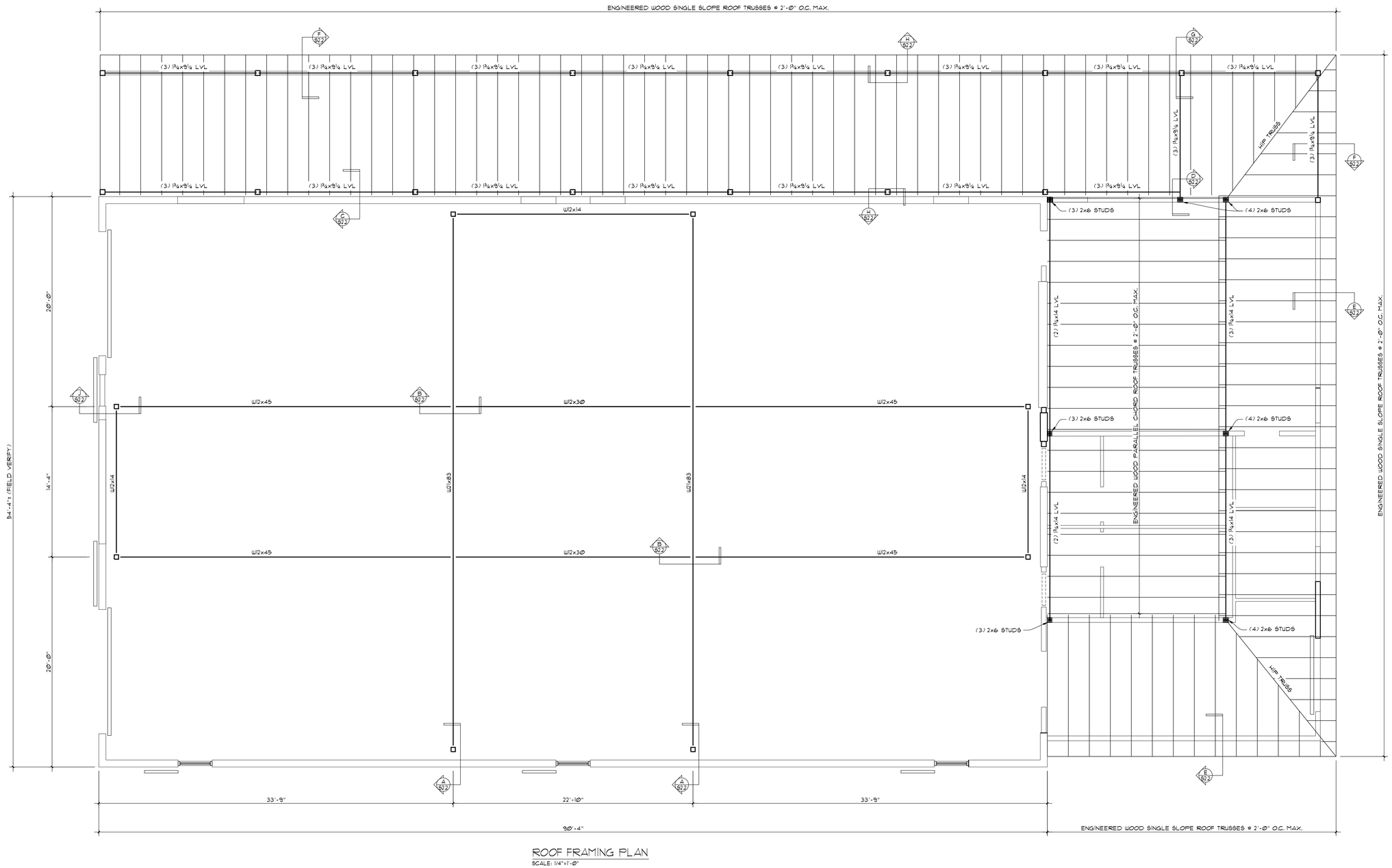
Retrofit & Renovations for Madison Methodist Church
Phase 2: Party Barn

1091 Confederate Highway — Madison, Georgia 30650

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ROOF FRAMING PLAN
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ROOF FRAMING PLAN

Retrofit & Renovations for Madison Methodist Church
Phase 2: Party Barn

1091 Confederate Highway
Madison, Georgia 30650

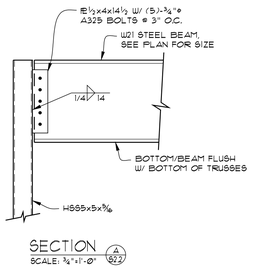
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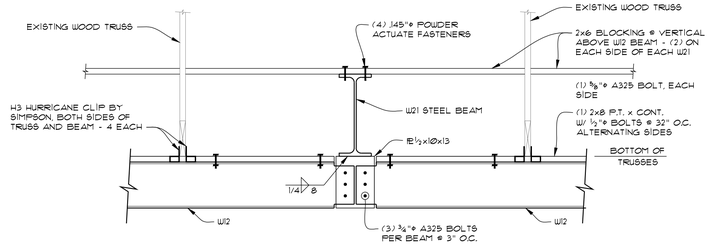
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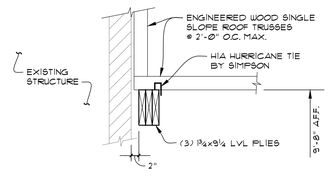
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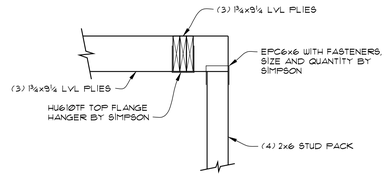
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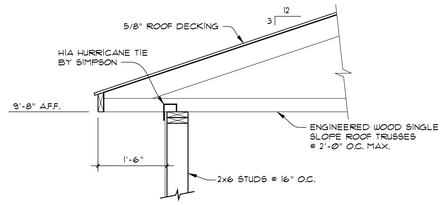
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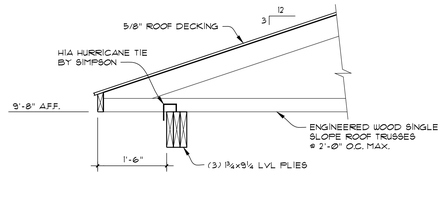
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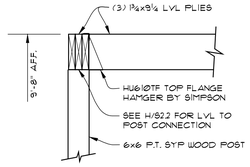
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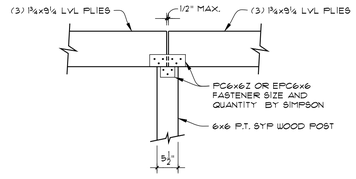
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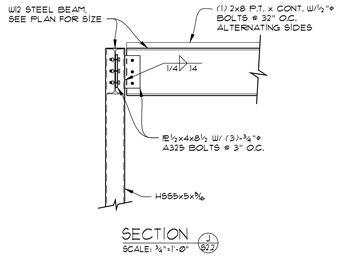
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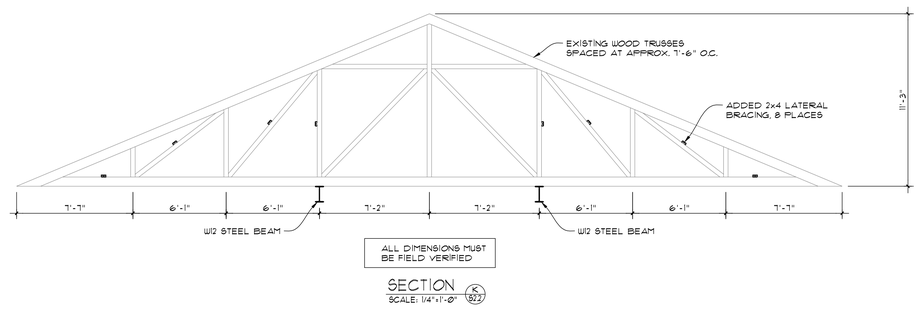
SECTION (G/S2.2)
SCALE: ¾"=1'-0"



SECTION (H/S2.2)
SCALE: ¾"=1'-0"



SECTION (J/S2.2)
SCALE: ¾"=1'-0"



ALL DIMENSIONS MUST BE FIELD VERIFIED

SECTION (K/S2.2)
SCALE: 1/4"=1'-0"

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Project No: 25-398

CONSULTANT

GEORGIA REGISTERED No. PE011260 PROFESSIONAL ENGINEER GLENN VAN KORNEGAY

3-13-2026

ROOF FRAMING SECTIONS

Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	D. WHITBY
CHECKED BY:	G. KORNEGAY
DESCRIPTION:	SCH-REVIEW-P2
DATE:	00.00.26
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.03.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.26
REVISIONS:	
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S2.2

OF

PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:
A. Plumbing fixtures, fittings and equipment.
B. Hot and cold water systems.
C. Drain waste and vent piping systems.
D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Gas Code (2018 International Gas Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State supplements and Amendments), and the DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120-3-20.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Below ground sanitary drain, roof drainage, overflow roof drainage, and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain, roof drainage, overflow roof drainage, and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665. All aboveground piping shall be adequately supported. Sanitary drain, roof drainage, overflow roof drainage, and vent piping shall have PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope pipe sizes 6" and under at 1/8 inch per foot continuously toward public sewer. Slope pipe sizes 8" and larger at 1/16 inch per foot continuously toward public sewer. Provide PVC IPEX type 1 expansion joints on alternating floors on horizontal sewer, storm, and vent risers over 30 feet tall.

Insulate all horizontal aboveground roof drainage piping with 1 inch flexible fiberglass insulation with FSK jacket.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60° with 1" thick type i performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elestomeric.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 876 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings.

DOMESTIC WATER PIPING CLEANING

A. Clean and disinfect potable domestic water piping as follows:
   1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
   2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
      a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
      b. Fill and isolate system according to either of the following:
         1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
         2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
      c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
      d. Repeat procedures if biological examination shows contamination.
      e. Submit water samples in sterile bottles to authorities having jurisdiction.
B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic Hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

Above ground natural gas piping shall be ASTM A53; Type E or S; Grade B; Schedule 40; black steel with malleable iron threaded fitting per ASME 16.3 Class 150. Flexible connectors shall comply be ANSI Z21.24 of copper alloy. Gas stops shall have bronze body with AGA stamp and bronze plug with lever handle. Valves shall be ASME B16.33 with IAS-listed bronze body. Coordinate connection of gas service and installation of meter with gas utility company. All piping shall be adequately supported. Prime & paint all exposed outdoor piping. Line gas pressure regulators shall comply with ANSI Z21.80. Appliance gas pressure regulators shall comply with ANSI Z21.18. Provide vent limiting device for regulators located indoors. Provide vent protector device for regulators located outdoors.

HW & CW Valves: Use pipe size valves, as shown below:
A. Ball: Spears CPVC True Union.
B. Check: Spears CPVC True Union.

Domestic water valve Boxes: Comply with AWWA M44 for cast-iron valve boxes. Include top section, adjustable extension of length required for depth of burial of valve, plug with lettering "WATER," and bottom section with base that fits over valve and with a barrel approximately 5 inches in diameter. Operating Wrenches: Steel, tee-handle with one pointed end, stem of length to operate deepest buried valve, and socket matching valve operating nut.

Ball-Valve-Type Hose-End Drain Valves shall comply with MSS SP-110 for standard-port, two-piece ball valves. Copper alloy body, 3/4", 400-psig pressure rating, replaceable seats and seals, vinyl-covered steel handle, threaded short nipple outlet with garden-hose thread complying with ASME B1.20.7 and cap with brass chain.

Balancing valves shall confirmed to MSS SP-110 for two-piece, copper-alloy ball valves. Balancing valves shall be copper alloy, memory-stop type, chrome-plated brass ball, replaceable seats & seals, vinyl-covered steel handle with memory-setting device.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for break room sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Urinal Supports shall be type I, urinal carrier with fixture support plates and coupling with seat and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers. Water closet carrier shall be ASME A112.6.1M waste-fitting assembly, as required to match drainage piping material and arrangement with faceplates, couplings gaskets, and feet; bolts and hardware matching fixture. Include additional extension coupling, faceplate, and feet for installation in wide pipe space if required.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components – Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for concealed behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require turning other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Extend all plumbing vents above roof to parapet height.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary and storm drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and unconcealed until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide Plastic Pipe Markers on all aboveground plumbing piping that Comply with ASME A13.1. Minimum information indicating flow direction arrow and identification of fluid being conveyed. Install labeling on pipe at intervals of not more than 20 feet and at least once in each room.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Provide Watts #LF9D dual check valve with intermediate atmospheric vent at all ice maker machines.

Provide a backflow preventer at the water riser if backflow preventer is not shown on civil drawings.

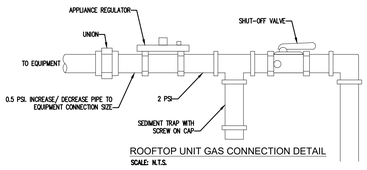
Provide PRessure reducing valve if pressure within building is above 79 PSI.

Approved manufactures: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons
Supplies & Traps: Engineered Brass CO., Mcguire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
Flush Valves: Sloan, Delany, Zurn, American Standard
Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey
Tankless Gas Water Heaters: A.O. Smith, Rheem, Rinnai, Bradley, Intellihot
Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey
Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn
Wall Hydrants/ Hose Bibbs: MIFAB, Jay R. Smith, Wade, Watts, Woodford, Zurn
Expansion Tanks: AMTROL, State, Watts, Wilkins
Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Jay R. Smith, Wade, Watts, Zurn
CPVC Valves: American, NIBCO, Spears
Mop Sinks: Stern Williams, Acorn, Fiat

FIXTURE AND EQUIPMENT SCHEDULE

#	FIXTURE TYPE	WASTE BELOW FLOOR	WASTE FIXTURE CONN.	WATER SUPPLY COLD	WATER SUPPLY HOT	WATER FIX. CONN. COLD	WATER FIX. CONN. HOT	MANUFACTURE AND NOTES
WC1	WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96053 WATER CLOSET. SLOAN REGAL 111-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
WC2	ADA WATER CLOSET 1.28 GPF	3"	3"	1"		1"		KOHLER K-96057-B WATER CLOSET. SLOAN REGAL 111-1.28 FLUSH VALVE. BEMIS 1655SSCT SEAT.
UR	ADA URINAL 0.125 GPF	2"	2"	3/4"		3/4"		KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0.125 FLUSH VALVE.
LAV	ADA UNDERMOUNT LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2210-0 LAVATORY. MOEN 9417F05 FAUCET.
MOP	MOP SINK	3"	3"	1/2"	1/2"	1/2"	1/2"	FIAT MSB2424, 830AA FAUCET, 832AA HOSE/BRACKET, 889CC HANGER, MSG2424 PANELS.
HB1	EXTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD 27.
HB2	INTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD 84.
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	3"	3"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.
FCO	FLOOR CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO12. PROVIDE CARPET MARKER WHEN INSTALLED UNDER CARPET.
GCO	GRADE CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO-200-RX-4-60.
FS	FLOOR SINK	4"	4"					WATTS FS-740-NH-150.
HD	HUB DRAIN	2"	2"					WATTS FD-100-DD-60.
RD	ROOF DRAIN	SEE DWG.	SEE DWG.					WATTS RD-100-NH-D.
OF	OVERFLOW ROOF DRAIN	SEE DWG.	SEE DWG.					WATTS RD-100-NH-D-R.
OFO	OVERFLOW ROOF DRAIN OUTLET	SEE DWG.	SEE DWG.					WATTS RD-950.
MV	POINT OF USE MIXING VALVE ASSE 1070			1/2"	1/2"	1/2"	1/2"	LEONARD 170-LF-BRKT.



ROOFTOP UNIT GAS CONNECTION DETAIL
SCALE: N.T.S.

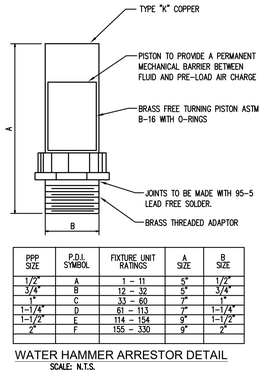
GAS WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	BTUH/KW
WH1	A.O. SMITH	ACT-199I-N	TANKLESS GAS	199,000 BTUH
WH2	A.O. SMITH	ACT-199I-N	TANKLESS GAS	199,000 BTUH
ET	WILKINS	XT-18	EXPANSION TANK	–

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE

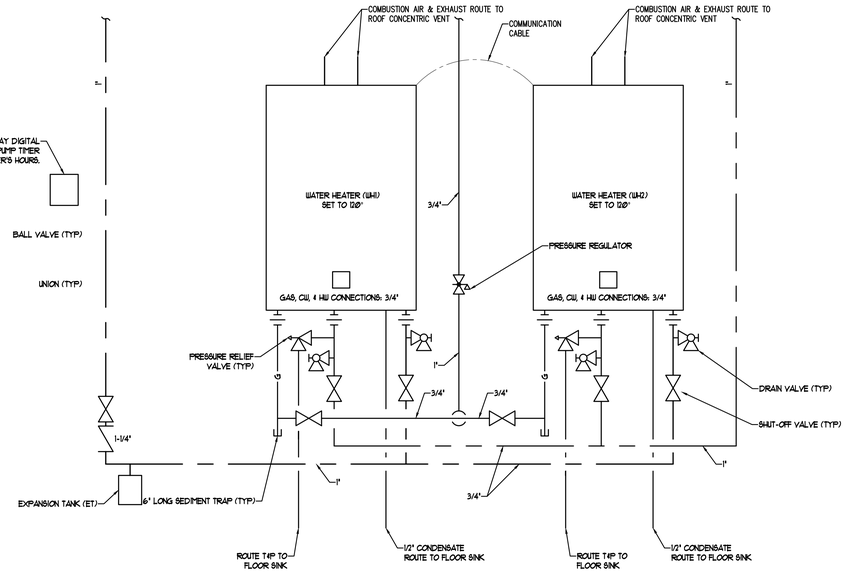
LEGEND

	SHUTOFF VALVE		COLD WATER	(TYP)	TYPICAL	VTR	VENT THRU ROOF
	CHECK VALVE		HOT WATER	C.T.	COUNTER-TOP	AFF	ABOVE FINISHED FLOOR
	PIPE UP		HOT WATER RETURN	DN	DOWN	CW	COLD WATER
	PIPE DOWN	G	GAS	CONN.	CONNECTION	HW	HOT WATER
PDI-B 11	PDI UNIT WATER HAMMER ARRESTOR	GREASE	GREASE LADEN SEWER	NTS	NOT TO SCALE	HWR	HOT WATER RETURN
	DRAWINGS		SEWER VENT	VT	VENT	B.F.F.	BELOW FINISH FLOOR
A	COMPRESSED AIR		SEWER	FFE	FINISHED FLOOR ELEVATION	CV	CLOSED VALVE
	PRESSURE REDUCING/ REGULATOR VALVE	F	FIRE SPRINKLER	FLR	FLR		
	DEMOLITION		EXISTING TO REMAIN		CONNECT TO EXISTING		



PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 – 11	5"	1/2"
3/4"	B	12 – 32	5"	3/4"
1"	C	33 – 60	7"	1"
1-1/4"	D	61 – 113	7"	1-1/4"
1-1/2"	E	114 – 154	9"	1-1/2"
2"	F	155 – 330	9"	2"

WATER HAMMER ARRESTOR DETAIL
SCALE: N.T.S.



WH1 & WH2 THANKLESS WATER HEATER PIPING SCHEMATIC
SCALE: N.T.S.

BRAVO BLDG SET 08-31-2026

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770.786.3031

PLUMBING SCHEDULES & SPECIFICATIONS

Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

1091 Confederate Highway — Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	KMP & MGT
CHECKED BY:	KMP
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	00.00.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.26
REVISIONS:	
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OF

FIRE PROTECTION BASIC MATERIALS AND METHODS
(FIRE PROTECTION SECTION 1 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pipe, fittings, valves, and connections for combination sprinkler and standpipe systems.

1.2 REFERENCES

A. ASME B16.1 – Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250; The American Society of Mechanical Engineers.

B. ASME B16.3 – Malleable Iron Threaded Fittings; The American Society of Mechanical Engineers.

C. ASME B16.4 – Gray Iron Threaded Fittings; The American Society of Mechanical Engineers.

D. ASME B16.5 – Pipe Flanges and Flanged Fittings; The American Society of Mechanical Engineers; (ANSI/ASME B16.5).

E. ASTM A 47/A 47M – Standard Specification for Ferritic Malleable Iron Castings.

F. ASTM A 53/A 53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.

G. ASTM A 795/A 795M – Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use.

H. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.

I. NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances; National Fire Protection Association.

J. NFPA 72 – National Fire Alarm Code.

K. NFPA 101 – Code for Safety to Life from Fire in Buildings and Structures.

L. 2018 International Fire Code (as adopted and amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120-3-3-04(3))

M. UL (FPED) – Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.

N. UL 262 – Gate Valves for Fire-Protection Service; Underwriters Laboratories Inc..

O. Chapter 120-3-3 of the Rules of the Safety Fire Commissioner.

P. Georgia State Minimum Standard Building Code (International Building Code 2018 Edition, with Georgia State Amendments). NFPA Code, where more stringent, shall take precedence.

1.3 SUBMITTALS

A. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.

B. Shop Drawings: Indicate pipe materials used, jointing methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.

C. Project As-Built Documents: Record actual locations of components and tag numbering.

D. Operation and Maintenance Data: Include installation instructions and spare parts lists.

1.4 QUALITY ASSURANCE

A. Fire Protection

1. The Contractor expressly warrants that the company performing the installation of the fire protection systems has demonstrated proficiency in the installation, start-up and adjustment of such systems by the successful performance of work of the nature specified herein on at least 5 commercial or institutional buildings, each containing minimum of 10,000 ft2 of protected area or greater.
2. The Contractor further warrants that the aforesaid subcontractor has trained personnel, instruments, tools, and equipment to perform the installation specified.
3. The Contractor also warrants that the aforesaid installer has been in business performing services of the nature specified herein for at least five-years.
4. Provide a certificate of competency as issued by the Georgia State Fire Marshal's Office.

B. Conform to UL and FM requirements.

C. Valves: Bear UL and FM label or marking. Provide manufacturer's name and pressure rating marked on valve body.

D. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Deliver and store valves in shipping containers, with labeling in place.

B. Provide temporary protective coating on cast iron and steel valves.

C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

1.6 EXTRA MATERIALS

A. Provide additional materials as provided in these specifications and by NFPA.

PART 2 PRODUCTS

2.1 GENERAL SYSTEM AND PRODUCT REQUIREMENTS

A. Sprinkler Systems: Conform work to NFPA 13.

B. Standpipe and Hose Systems: Conform to NFPA 14.

C. Welding Materials and Procedures: Conform to ASME Code.

D. Building is light hazard, ordinary hazard group, and extra hazard group. Pipe sizes shall be hydraulically calculated based upon flow test to be conducted by contractor.

E. Provide hydraulic calculations over the most remote 1500 square feet providing density required for hazard as indicated in NFPA 13. Minimum discharge pressure shall be 7.0 PSI. Minimum residual pressure at city water main in the street shall be 20.0 PSI. Provide 10.0 PSI minimum safety margin in hydraulic calculations at design point. Design area reduction per NFPA 13 is not allowed.

F. Basis of design: Contractor shall perform, or have performed, at the same time, a Fire Flow and Twenty Four Hour Static Test to assure flow equals or exceeds specified basis of design flow rate prior to preparing shop drawings, installing system or performing calculations. Prepare calculations based on confirmed flow data or basis of design flow data, whichever is lowest. Flow test shall be performed in accordance with NFPA 13 and Rules and Regulations of Safety Fire Commissioner, O.C.G.A. Chapter 120-3-3. Modify flow test pressures (static and residual), if pressure recorded in 24 hour test is lower than flow test pressures for one hour duration, to lowest hour test pressure.

G. No pipe shall be routed above electrical panels and equipment as required by National Electrical Code, on control side or beneath suspended mechanical equipment except where specifically required by Code, in which case, provisions shall be made for service access.

H. Inspectors test connection(s) shall discharge to the outside of the building in location(s) acceptable to the Architect.

I. Inside auxiliary drains, if needed, shall discharge in location(s) acceptable to the Architect.Drain and test connection piping, if in finished space, shall be installed concealed.

2.2 BURIED PIPING

A. Refer to Civil plans and specifications for piping type.

2.3 ABOVE GROUND WET SYSTEM PIPING

A. Steel Pipe: ASTM A 795 Schedule 10 or ASTM A 53 Schedule 40, black. Piping 2" and smaller shall be threaded. Piping 2 1/2" and larger shall be grooved with rigid couplings.

1. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.
2. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.
3. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.

2.4 PIPE HANGERS AND SUPPORTS

A. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.

B. Hangers for Pipe Sizes 2-inches and Over: Carbon steel, adjustable, clevis.

C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.

D. Vertical Support: Steel riser clamp.

E. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.

F. Provide support for any vertical pipe 36" in length or greater except armovers. Provide supports 12'-0" O.C. maximum or at floor levels.

G. Threaded rods shall NOT be bent. Bending is permitted only in unthreaded sections of hanger rods. Bending shall occur as close to the hanger as possible. Provide a swivel assembly if required.

2.5 GATE VALVES

A. Up to and including 2 inches:

1. Manufacturers:
   a. Nibco Scott; Product T-104-O
   b. Jenkins; Product 275U
   c. Hammond; Product 18681
   d. Stockham; Product B-133
   e. Kennedy; Product Fig. 66
2. Bronze body, bronze trim, rising stem, handwheel, solid wedge or disc, threaded ends.

B. Over 2 inches:

1. Manufacturers:
   a. Nibco Scott; Product F-607-OTS
   b. Crane; Product 467
   c. Jenkins; Product 825-A
   d. Hammond; Product IR1154
   e. Stockham; Product G-634
   f. Kennedy; Product Fig. 68
2. Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, handwheel, OS&Y, solid rubber covered bronze or cast iron wedge, flanged ends.

2.6 GLOBE VALVES

A. Bronze body, rubber disc, union bonnet, 174 W.W.P., threaded ends.

B. Up to and including 2 inches:

1. Manufacturers:
   a. Nibco-Scott; Product KT-65.
   b. Kennedy; Product 975D.
   c. United; Product 125S.
   d. Fairbanks; Product 4691-3.

2.7 ANGLE VALVES

A. Bronze body, rubber disc, union bonnet, 174 non-shock cold water, threaded ends.

B. Up to and including 2 inches:

1. Manufacturers:
   a. Nibco-Scott; Product T-301-W.
   b. Kennedy; Product 985D.
   c. United; Product 126S.
   d. Fairbanks; Product 4691-3.

2.8 BUTTERFLY VALVES: Not allowed.

2.9 CHECK VALVES

A. Iron body, U.L. Listed- F.M. Approved, swing type, bronze trimmed, bronze seat and disc, flanged ends.

B. Manufacturers:

1. Jenkins; Product 629
2. Crane; Product 375
3. Stockham; Product G-939
4. Mueller; Product A-2120-6
5. Kennedy; Product #126

2.10 INDICATOR POSTS

A. Cast iron base, top section, & cap; malleable iron wrench and locking device; steel stem; cast iron coupling; bronze target holder with aluminum "shut" and "open" targets; Underwriters Laboratories listed, and Factory Mutual approved; available for varying trench depth; and with adjustable depth features.

B. Manufacturers:

1. Kennedy Fig. Series 741.
2. Nibco NIP-1.
3. Stockham G-951.
4. Mueller A-20804.

2.11 UNDERGROUND GATE VALVES

A. 2 1/2-inch and larger, iron body, non-rising stem, bronze stem, iron mounted disc with bronze rings, cast iron 2-inch square operating nut, flange, ends, AWWA spec. C-500.

B. Manufacturers:

1. Kennedy Fig. 701X.
2. Nibco F-609.
3. Stockham G-635.
4. Mueller A-2075-20.
5. M & H Fig. 3067.

PART 3 EXECUTION

3.1 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and foreign material, from inside and outside, before assembly.

C. Prepare piping connections to equipment with flanges or unions.

D. Storage: All piping shall be stored above ground and protected to prevent dirt and debris from entering pipe.

3.2 INSTALLATION

A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13 and these specifications.

B. Install standpipe piping, hangers, and supports in accordance with NFPA 14.

C. Install post indicator valve (PIV) upstream of backflow device.

D. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.

E. Install piping to conserve building space, to not interfere with use of space and other work.

F. Group piping whenever practical at common elevations.

G. All piping shall be installed above ceilings in a concealed manner except where no ceilings are present

H. Sleeve pipes passing through partitions, walls, and floors.

I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

J. Reducing Tees: Weld-on threaded outlet tees and Coupolet-300 by Bonney Forge Division of Energy Products Group, Central Sprink 701, "TEE-LET" 300 by Merit Manufacturing Corp., NAP.300 by North Alabama Pipe Corp., F400 by Grinnell Corp. may be used for side outlet reducing tees more than two pipe sizes smaller than main. Discs shall be retrieved and connected to pipe at point of cutting. Cutting shall comply with NFPA 13, Chapter 6.5.2.9.

K. Couplings may be used on gridded systems at only one end of each gridded branch line or on 2 1/2" or larger riser nipple to 2" or smaller branch line to facilitate connection provided that the coupling is connected to piping by a cut groove. Rolled grooves are not acceptable.

L. Pipe Hangers and Supports:

1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
2. Place hangers within 12 inches of each horizontal elbow.
3. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
4. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.

M. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.

N. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.

O. Do not penetrate building structural members unless indicated.

P. Provide sleeves when penetrating floors and walls. Seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.

Q. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.

R. Die cut threaded joints with full cut standard taper pipe threads with red lead and linseed oil or other non-toxic joint compound applied to male threads only.

S. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.

T. Provide gate valves for shut-off or isolating service. No valve shall be installed with the centerline, if horizontal, or wheel, if vertical, more than 9'-0" AFF.

U. Provide drain valves at main shut-off valves, low points of piping and apparatus.

3.3 CLEANING AND PROTECTION

A. All materials, equipment and mechanical rooms shall be cleaned prior to the Final Inspection.

B. Wash down and scrub clean all mechanical room floors, walls, equipment bases and equipment.

C. Paint equipment where finish has been damaged requiring retouching of finish to match factory finish.

D. Chipped or scraped paint shall be retouched to match original finish.

E. All dents and sags in equipment casing shall be straightened.

F. All equipment, pipe, pipe fittings and appurtenances shall be free of rust and stains prior to substantial completion.

3.4 FINISHING EQUIPMENT AND MATERIAL

A. Use paint systems specified in Division 9 for the substrates to be finished.

B. Paint shop-primed equipment.

C. Re-install electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

D. Paint all exposed pipes, unless otherwise indicated.

E. All ferrous fasteners and hanger supports not having a corrosion resistant plated finish shall be painted to prevent rust.

F. Paint all equipment, including that which is factory-finished, exposed to weather or to view on the roof and outdoors.

G. Paint all exposed un-insulated ferrous materials.

END OF SECTION

FIRE SUPPRESSION SPRINKLERS
(FIRE PROTECTION SECTION 2 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Wet Type Sprinkler System

B. Dry-pipe sprinkler system.

C. System design, installation, and certification.

D. Fire department connections.

1.2 REFERENCES

A. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.

B. NFPA 14 – Standard for the Installation of Standpipe and Hose Systems; National Fire Protection Association.

1.3 SUBMITTALS

A. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.

B. Shop Drawings:

1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.
2. Submit shop drawings, product data, and hydraulic calculations to Fire Marshall for approval and to Architect for review. Submit to Architect prior to submitting to Fire Marshal. Submit proof of approval to the Architect.

C. Project As-Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as-built drawings.

D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.

E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

1.4 QUALITY ASSURANCE

A. Maintain one copy of referenced design and installation standard on site.

B. Conform to UL requirements.

C. Equipment and Components: Provide products that bear UL label or marking.

D. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.

B. Store piping off floor and out of elements. Provide cover for piping to prevent dirt and debris from entering piping. Piping and fittings shall be rust free when installed.

1.6 EXTRA MATERIALS

A. Provide extra sprinklers of type and size matching those installed, in quantity required by referenced NFPA design and installation standard.

B. Provide suitable wrenches for each sprinkler type.

C. Provide metal storage cabinet located at piping entrance to building.

PART 2 PRODUCTS

2.1 SPRINKLER SYSTEM REQUIREMENTS

A. Sprinkler System: Provide coverage for entire building.

B. Occupancy: comply with NFPA 13.

C. Water Supply: Contractor shall perform or have performed an NFPA-13 water flow test data and a 24 hour static pressure test. Adjust flow test to lowest pressure recorded by 24 hour test of one hour duration.

D. Interface system with building fire alarm system.

E. Provide fire department connections where indicated on FP and civil drawings.

2.2 SPRINKLERS

A. Tyco and affiliates, Automatic Sprinkler, Reliable, Viking.

B. All sprinklers installed shall be by the same manufacturer.

C. Contractor shall select temperature ratings in accordance with NFPA 13, paragraph 8.3.2.

D. Suspended Ceiling Type: Recessed pendant type with matching flush push on escutcheon plate.

1. Finish: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick response Glass bulb type temperature rated for specific area hazard.

E. Gypsum Board Ceiling Type: Concealed pendant type with matching push on escutcheon plate.

1. Finish: Brass.
2. Escutcheon Plate Finish: Enamel, Verify color with architect.

F. Exposed Area Type: Standard upright type.

1. Finish: Brass.
2. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.

G. Sidewall Type: Standard horizontal sidewall type with matching flush push on two piece escutcheon plate.

1. Finish: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick Response Fusible solder link type temperature rated for specific area hazard.

H. Guards: Finish to match sprinkler finish.

2.3 PIPING SPECIALITIES

A. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator; with test and drain valve.

B. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gong and motor housing, nylon bearings, and inlet strainer. By same manufacturer as Alarm Valve.

C. Electric Alarm: Electrically operated chrome plated gong with pressure alarm switch.

D. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.

E. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.

F. Fire Department Connections: Elkhart, Croker Standard, Potter Roemer.

1. Type: Free standing type with ductile iron pedestal chrome plated finish.
2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
3. Drain: 3/4 inch automatic drip, outside.
4. Label: "Sprinkler – Fire Department Connection".

PART 3 EXECUTION

3.1 INSTALLATION

A. Install in accordance with referenced NFPA design and installation standard and these specifications.

B. Sprinklers shall be in line with and centered between down lights unless shown otherwise.

C. Install equipment in accordance with manufacturer's instructions.

D. Each floor of multi story buildings shall be zoned.

E. All dry system piping shall be galvanized down stream of dry valve.

F. Install buried shut-off valves in valve box. Provide post indicator.

G. Provide approved double detector check assembly at sprinkler system water source connection.

H. Locate fire department connection within forty (40'-0") feet of nearest fire hydrant and with sufficient clearance from walls, obstructions, or adjacent siamese connectors to allow full swing of fire department wrench handle.

I. Locate outside alarm gong on building wall at piping entrance to building.

J. Place pipe runs to minimize obstruction to other work.

K. Place piping in concealed spaces above finished ceilings.

L. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.

M. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field paint finish. Remove after painting. Replace painted sprinklers.

N. Where sprinklers are required under rectangular duct, the centerline of the sprinkler shall be minimum 6" under duct

O. Install air compressor on vibration isolators.

P. Flush entire piping system of foreign matter.

Q. Hydrostatically test entire system.

R. Require test be witnessed by Fire Marshall.

S. All drain piping shall discharge to the outside 6" maximum above grade unless noted otherwise.

T. Where sprinklers are required under oval or round duct, the centerline of the sprinkler shall be under the centerline of the duct.

3.2 INTERFACE WITH OTHER PRODUCTS

A. Ensure required tamper and flow devices are installed and connected as required to fire alarm system including but not limited to Floor control valves, alarm check valve, elevator shaft isolation valve, Post Indicator Valve (PIV) and backflow device valves.

3.3 SCHEDULES

A. System Hazard Areas:

1. Public Areas and similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.
2. Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Mechanical Equipment Rooms, Restaurant Service Areas, and similar occupancies – Ordinary Hazard Group 1 Design; 0.15 GPM/sq.ft. over the most remote 1500 square foot.

END OF SECTION

BRAVO BLDG SET 08-31-2026

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FIRE SPECIFICATIONS

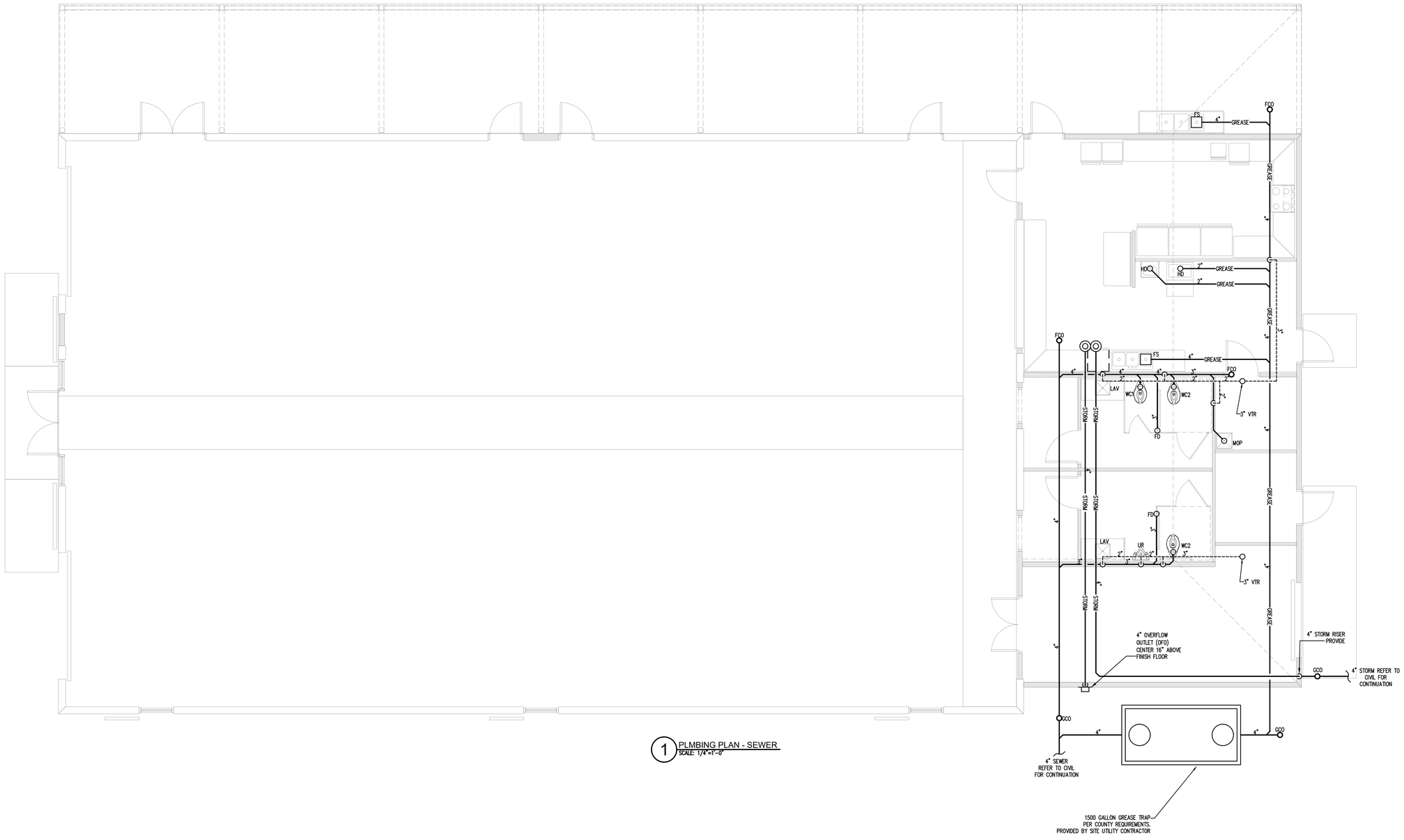
Retrofit & Renovations for
Madison Methodist Church
Phase 2: Party Barn

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	KMP & MGT
CHECKED BY:	KMP
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	00.00.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.26
REVISIONS:	
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SHEET
P0.2
OF



1 PLMBING PLAN - SEWER
SCALE: 1/4"=1'-0"

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PLUMBING PLAN - SEWER

Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

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OF



GAS NOTES:

TOTAL GAS LOAD IS 825,000 BTUH. NATURAL GAS SYSTEM PRESSURES WITHIN BUILDING: PRIMARY PRESSURE IS 2.0 PSIG, AND IS REDUCED TO SECONDARY PRESSURE OF 0.5 PSIG AT INDIVIDUAL POINTS OF USE.

GAS LOAD:

199,000 BTUH	WH1 WATER HEATER
199,000 BTUH	WH2 WATER HEATER
180,000 BTUH	RTU-1
180,000 BTUH	RTU-2
67,000 BTUH	RTU-3
825,000 BTUH	TOTAL GAS LOAD

KEY NOTES(THIS SHEET ONLY):

(1) 6" FIRE SPRINKLER FROM CITY SUPPLY & 4" FIRE TO REMOTE F.D.C. REFER TO CIVIL FOR CONTINUATION.

(2) 2" WATER REFER TO CIVIL FOR CONTINUATION.

1 PLMBING PLAN - WATER
SCALE: 1/4"=1'-0"

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PLUMBING PLAN - WATER

Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

Madison, Georgia 30650

1091 Confederate Highway

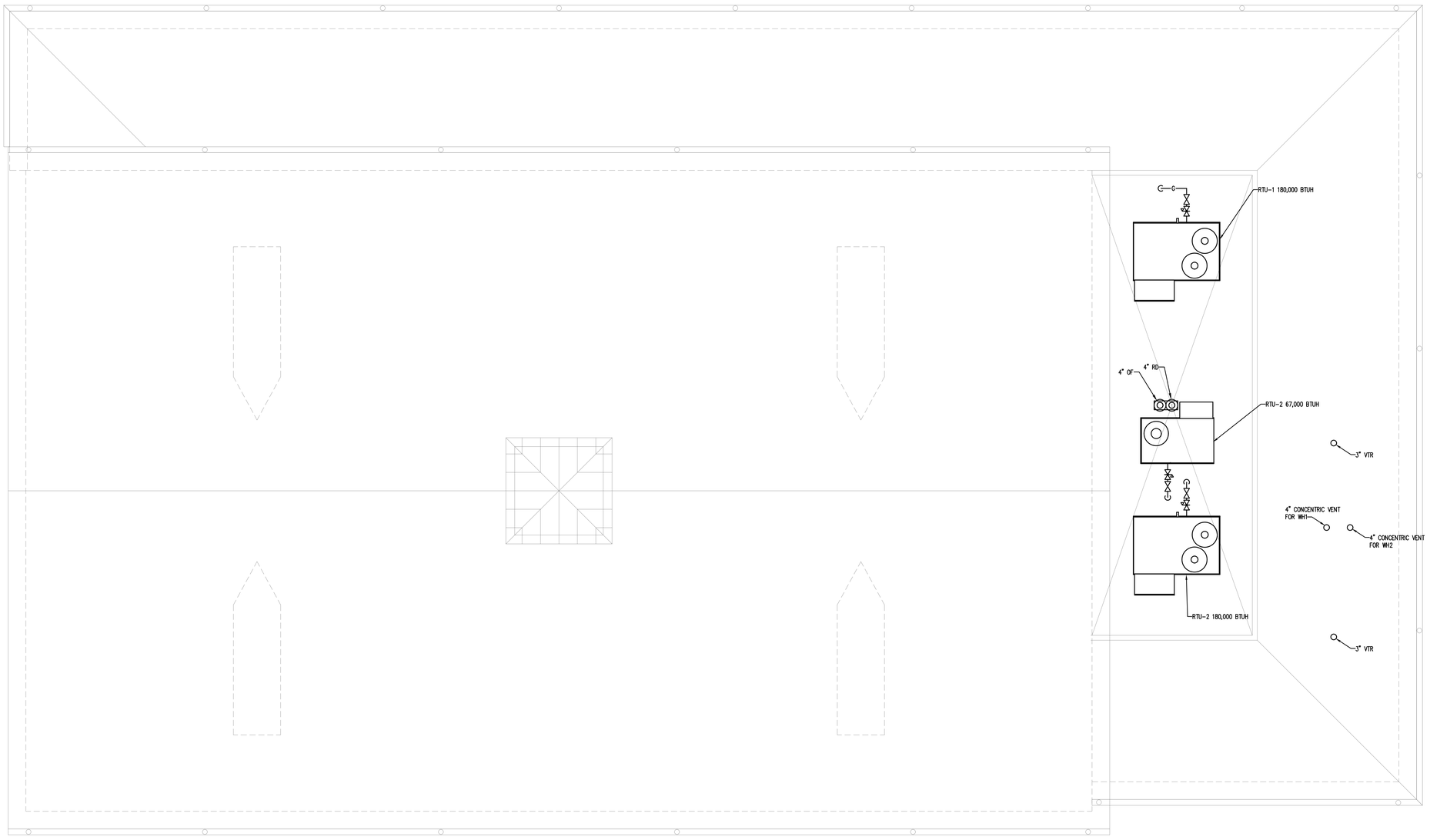
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SHEET

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OF



1 PLMBING ROOF PLAN
SCALE: 1/4"=1'-0"

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PLUMBING ROOF PLAN

Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

1091 Confederate Highway Madison, Georgia 30650

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OF

MECHANICAL SPECIFICATIONS

1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification or required for a complete and proper installation.

2)Comply with all pertinent codes, ordinances and regulations. Refer to website for Dept. of Community Affairs for current Codes Editions.

3)The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.

4)Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.

5)All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings and shall be UL listed.

6)Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.

7)Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.

8)Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair and replacement.

9)All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.

10) All ductwork shall be fabricated from galvanized sheet metal duct and conform to SMACNA "HVAC Duct Construction Standards–Metal and Flexible. Seal all joints in ductwork with mastic sealant.

11) Flexible duct: Flexmaster; Atco UPC#36(R–6.0); Atco UPC#31 (R–8) or Thermaflex, Type 3, insulated. 5'–0" Maximum length unless noted otherwise. Class 1 rating with R–value of 6.0 when located inside building insulation envelope and R–8 when located outside building insulation envelope. Install with no more than 135 degrees maximum of total bends per run. Maximum individual bend shall not exceed 45 degrees each. Support at five feet on centers with hangers having at least 2–inches of width at duct contact points. Flexible connectors shall not pass through any wall floor or ceiling weather rated or not. Provide 36–onches of metal duct at penetration of draft stops, fire walls and smoke walls.

12) Outside duct insulation (supply and return): 2" thick, 6#/C.F. density rigid glass fiber insulation with foil scrim vapor retarding jacket. smooth side. Owens Corning 705 or equivalent. Wrap duct with Alumagaurd covering to form vapor tight enclosure of duct. Provide 6" wide by 18–gauge saddle at duct supports. Overall insulation value must be R–8 for exterior duct as per ASHRAE 90.1 & IECC.

13) Duct Liner: Owens Corning Aeroflex Plus, or equivalent. Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G 21. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F. Service Temperature: 250 degrees F. Density: 1.5 pounds/cubic foot. Install using adhesive (50% coverage) and galvanized steel fasteners with welded press–on head Thickness: 1–inch.

14) Condensate drain piping shall be ASTM D2665 PVC with solvent welded fittings. Drain piping shall be no smaller than the drain connection size on equipment. Slope at 1/8 inch per foot continuously toward drains. All indoor condensate drain piping shall be insulated with preformed flexible plastic cellular foam. All outdoor condensate drain piping shall be primed and painted with a coating system recommended by the piping manufacturer for protection against deterioration from weather and UV–light exposure. All piping shall be adequately supported to maintain proper slope and avoid sagging.

15) Thermostats: Provide 24 volt, programmable 24 hour, 7 day thermostat to control heating stages in sequence with delay between stages and supply fan to maintain temperature setting. For Heat Pumps include system selection switch heat–off–cool and fan control switch (auto–on), emergency heat switch (auxiliary/emergency heat indicator lights).

16) Provide fire and smoke rated flexible connections between fans and ducts. Material shall comply with NFPA 90A requirements for material in supply air stream.

17) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily accessible.

18) Indoor duct insulation: Foil–faced fiberglass, Owens Corning type 75 or equal, 2.2" thick(R–6), unless the insulated duct is outside building insulation envelope (attic, crawlspace or unconditioned space) in which case the duct insulation thickness shall be 3" thick(R–8). Duct shall have a flame spread rating of not more than 25 and smoke developed rating of not more than 50. Glass–Fiber Insulation: All service duct wrap with foil scrim and having backing and a k–value of 0.30 at 75° F mean temperature and an average maximum density of 0.75 lb/cu. ft.

19) All supply, return, and exhaust air ducts shall be insulated. Exhaust ducts shall be installed with a 1/8" slope to outside. Install acoustical duct liner on the interior surface of the first five (5) linear feet of supply duct downstream and the last five (5) linear feet of return duct upstream of rooftop units. Insulate the concealed tops of all ceiling mounted supply air diffusers with foil–faced fiberglass, 1.5#/cubic foot density, 2" thick. Seal edges to ceiling grid with foil faced tape to provide vapor tight seal.

20) All low pressure duct branches shall contain manual balancing dampers. Manual balancing dampers shall also be installed in the continuation of the main, if the main duct is smaller or the same size as the branch duct, or if the continuation of the main serves only one device.

21) Make all duct elbows right angle type with single –thickness turning vanes or construct with centerline radius 1–1/2 times the duct width.

22) Duct sizes shown on plans are clear, interior dimensions. Duct sizes shown shall be enlarged to allow for liner at locations of interior liner.

23) Do not cut into or reduce the size of any structural member without the permission of the Architect.

24) Provide weather–proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weatherproof.

25) Support all HVAC units, ductwork, piping and other appurtenances from structure, provide vibration isolation at all fans which are not internally isolated. Provide hanger rod with built in rubber–in–shear isolator. Between drain pan and unit provide 4 each rubber–in–shear isolator. Do not attach vibration isolator to drain pan. Do not screw or drive fasteners into non–structural components such as roof decks or non–load bearing walls.

26) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.

27) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the completed system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:
   a) Airflow rate at each supply, return and exhaust outlet or inlet.
   b) Total airflow rate and total static pressure for each supply and exhaust fan. Test exhaust fans with room doors closed.
   c) Motor speed, for multiple speed fans (e.g. high, medium, low).
   d) For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
   e) Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
   f) Outside airflow rate to each HVAC unit and supply fan.
   g) Motor current (and compare with nameplate data) at all motors.
   h) Entering and leaving air dry–bulb and wet–bulb conditions at all cooling coils.
   i) Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
   j) Manufacturer, model and serial number for each piece of HVAC equipment scheduled on drawings.
   k) Calibrate thermostats to be within one degree of actual temperature at thermostat.
   l) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON–OFF, 2–stage, variable output (SCR heaters), etc.

28) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) year parts only warranty from the manufacturer. All labor and materials necessary to repair or replace the system or portions thereof, during that time shall be warranted for a period of one (1) year from the repair of replacement.

29) SUBMITTALS AND SUBMITTAL PROCEDURES:
   a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
   b. Transmit each submittal electronically in PDF format.
   c. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
   d. Identify Project, the Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
   e. Apply the Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
   f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights and load distribution at mounting points.
   g. Deliver submittals electronically to the Design Professional.
   h. Schedule submittals to expedite the Project, and coordinate submission of related items.
   i. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
   j. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
   k. Provide space for the Contractor and the Architect/ review stamps.
   l. When revised for resubmission, identify all changes made since previous submission.
   m.Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
   n. Submittals not requested will not be recognized or processed.
   o. Provide files containing only related items (such as piping, equipment, air distribution, etc.)

30) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.

31) Provide an operation and maintenance manual. As a minimum, the manual shall contain:
   a. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
   b. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
   c. Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
   d. List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
   e. Manufacturers' warranties.

32) Provide a duct smoke detector on the supply duct of each rooftop unit with design airflows exceeding 2,000 CFM. Install detector in accordance with the International Mechanical Code section 606 Smoke Detection Control System with Georgia Amendments 2018. Detectors shall be provided by the electrical/fire alarm subcontractor and shall be installed by the mechanical subcontractor. For other fans, such as exhaust fans with design airflows exceeding 2,000 CFM, coordinate with the electrical/fire alarm subcontractor to provide room or duct smoke detectors. Where no fire alarm system is installed in building provide smoke detector, audio visual annunciator and trouble indicator in an approved location. Duct smoke detector trouble conditions shall activate a visible or audible signal in an approved location and shall be identified as air duct detector trouble. Provide contacts to automatically shut down all such fan motors when smoke is detected, to indicate detector status to the fire alarm system, and to require a manual reset of the shut–down relay.

33) Fire damper; curtain type with blades outside air stream except when located behind grilles when blades may be in air stream. Provide 1–1/2 hr class unless noted otherwise, vertical or horizontal mounting as shown on drawings with re–placeable, rated, fusible link. Duct–Mounted Access Doors: Provide access doors for access to fire or smoke dampers having fusible links, doors shall be pressure relief access doors; and shall be outward operation for access doors installed upstream from dampers and inward operation for access doors installed downstream from dampers adjacent to and close enough to fire or smoke dampers, to reset or reinstall fusible links. Fabricate access panels according to SMACNA's "HVAC Duct Construction Standards – Metal and Flexible"; Figures 2–10, "Duct Access Doors and Panels," and 2–11, "Access Panels – Round Duct."

34) Grilles, Registers and Diffusers: Grilles, registers, and diffusers as indicated on the drawings have been selected from the catalog of the manufacturer noted as the basis of design. Sizes, types, and performance of the devices to be provided must be coordinated to insure conformity with design basis. Sidewall supply grilles and registers shall have vertical front blades; sidewall return grilles shall have horizontal blades. Grilles and registers with borders shall have felt or rubber gaskets cemented to the back face and holding screws not over 18 inches on centers around the perimeter. Holding screws shall be counter–sunk to fit flush with face of grille or register. Grilles passing air through partitions shall be as described for wall return grilles, one for each side of partition. Register dampers shall be of the gang–operated, opposed blade type, operated through the face of the register. Operating mechanism shall not project through the register face. Mounting frame shall be coordinated with architectural reflected ceiling plans. Construction shall be of steel or aluminum as scheduled, with frame type to match ceiling construction. Sidewall supply grilles and registers shall be double–deflection type, with vertical front vanes. Construction shall be of steel, with 3/4 inch blade spacing. Return air grilles, return air registers, exhaust grilles, exhaust registers and transfer air grilles located in ceilings shall be constructed of aluminum with "egg–crate" design, with 1/2 inch x 1/2 inch x 1/2 inch grids. Frame style shall be compatible with ceiling construction. Install wall grilles and registers with horizontal edges parallel to ceiling. Concentric diffuser assemblies at roof top units shall have paint–ready exterior finish and 1–inch lined supply and return ducts that transition to diffuser size within 24 inches vertically of the bottom of roof top unit curb.

35) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase, unless otherwise scheduled. Motors smaller than 1/2 hp: single phase. Frequency rating: 60 Hz. Service factor: according to NEMA MG 1, general purpose continuous duty, design type "B." Enclosure: open drip–proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard average motor as delineated in IEEE Standard 112, test method 13. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.

36) Hangers and supports: Building attachments: concrete inserts or structural–steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all–thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards––Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screws, blind rivets, or self–tapping metal screws; compatible with duct materials. Trapeze and riser supports galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.

37) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open–weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass–fiber fabric reinforced. Joint and seam sealant: one–part, nonsag, solvent–release–curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastics: one–part, acid–curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use 0.

38) Packaged Roof Top Units–Gas Heat: Outdoor packaged units, roof mounted, electrically controlled, 2–stage cooling with gas heat units, as scheduled, utilizing scroll hermetic compressor(s) for cooling duty and an indirect fired gas furnace section for heating duty. Unit shall discharge supply air horizontally or vertically(refer to schedules). Unit shall exceed ASHRAE 90.1–2001 Energy Standards, be rated in accordance with ARI Standards 210/240 or 360 and 270, in accordance with UL Standard 1995, conform to ASHRAE 15, latest revision, be UL–tested and certified in accordance with ANSI Z21.47 Standards. Factory assembled, single–piece heating and cooling unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, refrigerant charge, and thermal expansion valve. Unit cabinet shall be constructed of galvanized steel, and shall be phosphatized/bonderized and coated with a pre–painted baked enamel finish on all externally exposed surfaces. Coils shall have aluminum fins mechanically bonded to copper tubing. Evaporator fan compartment interior cabinet surfaces shall be insulated with a minimum 1/2–in. thick, 1 lb. density, flexible fiberglass insulation, neoprene coated on the air side. Cabinet insulation shall meet ASHRAE Standard 62P. Aluminum foil–faced fiberglass insulation shall be used in the gas heat compartment. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation. Cabinet panels shall be easily removable for servicing. Condenser coils shall have protective wire guards. Unit shall have a factory–installed, sloped condensate drain pan made of a non–corrosive material, with a minimum 3/4–in.–14 NPT connection and shall comply with ASHRAE Standard 62. Unit shall have 2–inch pleated MERV 7 disposable filters a removable, filter access panel to provide filter access. Unit shall have standard thru–the–bottom utility connection capability and accessory powered convenience receptacle. Provide matching pre–fabricated roof curb with direct, duct attachment capability. Provide low and high pressure safety switches, anti–short cycle safety, and low ambient operation. Provide microprocessor control panel and complete, factory–wired controls, including discharge air temperature sensor, and communications interface. Refer to schedule for layout basis. Substitutions shall match the features of specified model. Provide condensate overflow switch (Rectorseal Safe–T–Switch Model SST or equivalent) wired to shut unit down in case of condensate overflow. Refer to Schedule on Drawings for additional specifications.

39) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible nameplates with their associated marks on them.

40) Ceiling Ventilator shall have corrosion resistant galvanized steel housing with four–point mounting capability. It shall be ducted to a cap on wall or roof using round ductwork. Blower assembly shall be removable, have a centrifugal–type blower wheel and a permanently lubricated motor designed for continuous operation. Non–metallic damper/duct connector shall be included. Air delivery shall be no less than scheduled and sound level no greater than scheduled. All air and sound ratings shall be certified by HVI. Ceiling ventilator shall be Energy Star? qualified and have an energy efficient permanent split capacitor motor.

41) Kitchen Hood (KH–1): Provide under cabinet kitchen hood as scheduled. Kitchen hood shall be 30" wide. Hood shall have UL rated, class 2 filter located in the middle of the hood. Provide Grease filter GD–06, and Charcoal Filter CF–06. Hood body shall be made of 24 gauge, grade 430 stainless steel. Painted hood shall be 23 gauge cold rolled commercial grade (CRCQ) steel, Auto welded. Hood shall have fully enclosed PSC 4 pole motor. Variable speed, thermally protected, permanently lubricated. Rated 115/120 Volts, 60 Hz. Hood shall have enclosed in a polycarbonate lens, 60 watt max. Type A15 appliance lamp, complete with night light setting. Hood shall exhaust to outside by 10"x4" exhaust duct thru wall or 7" round ductwork thru roof or wall as per drawing. Provide duct adapter and damper. Provide Stainless steel finish for the hood.

42) The project shall be constructed in strict adherence to drawings and specifications. Constructability questions shall be addressed, in writing, to the Architect and Engineer of Record for resolution. Any deviations from these Drawings and Specifications documents without written consent from the Engineer of Record shall become the responsibility of the person or entity making the changes. That person or entity shall become solely responsible for any claims resulting from such changes.

43) Acceptable Manufacturers are:

Air Handlers & Heat Pumps, Packaged Units:	Carrier, Trane, York, Lennox
Grilles, Registers & Diffusers:	Titus, Nailor, Price, Tuttle & Bailey, Kruger, Metal Aire(Color selection submitted to Architect)
Fans:	Twin–City, Cook, Greenheck, PennBarry, Acme, American CoolAir, Captive Air, Solar & Palau
Louvers/Dampers/Fire Dampers:	United Enertech, Greenheck, Ruskin, Arrow United, Lloyd Industries, Air Balance (Color selection submitted to Architect)
Controls–provided with unit:	Provide thermostats by same manufacturer as equipment

BRAVO BLDG SET 08-31-2026

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MECHANICAL SPECIFICATIONS

Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

1091 Confederate Highway Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	KMP & MGT
CHECKED BY:	KMP
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	00.00.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	00.00.26
REVISIONS:	
1	00.00.26
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M0.1
OF

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND

	NEW PIPE, DUCTWORK OR EQUIPMENT
24x12 | 24x12	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
F | SCD | SD	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
R	REFRIGERANT PIPING
D	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
T	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
TC	TIME CLOCK
ø	DIAMETER
U.C.	UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
20 | 218	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
4 S1 8"ø 300	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
AFF	ABOVE FINISHED FLOOR
AH	AIR HANDLING UNIT
BD	BYPASS DAMPER
BTUH, MBH	BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CU	CONDENSING UNIT
DB, WB	DRY BULB TEMPERATURE, WET BULB TEMPERATURE
EA, EG	EXHAUST AIR, EXHAUST GRILLE
EF	EXHAUST FAN
EXT SP	EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
HP	HEAT PUMP UNIT
MVD, VD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
RA, RG	RETURN AIR, RETURN GRILLE
RTU	PACKAGED ROOFTOP UNIT
SA	SUPPLY AIR
SF	SUPPLY FAN FOR SHOP VENTILATION
VAC, PH	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
W, KW	WATTS, KILOWATTS
UH	UNIT HEATER
A	AUDIBLE/VISUAL ALARM DEVICE CONNECTED TO DUCT SMOKE DETECTOR
AD / AD	ACCESS DOOR
	CONTROL DAMPER-OPPOSED BLADE
	CONTROL DAMPER-PARALLEL BLADE
	BACKDRAFT DAMPER
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
MVD	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)
X / XX	X INDICATES SECTION NUMBER/XX INDICATES ON WHICH DRAWING SECTION APPEARS

KITCHEN HOOD SCHEDULE

MARK	CFM HI/LO	WIDTH IN	VOLTS/PH	LAY-OUT BASIS: AIRKING MODEL	REMARKS
KH-1	250/150	30"	120/1	QZ SERIES	1:2:3:4:5:6

1. FILTER FOR THE KITCHEN HOOD SHALL BE LOCATED IN THE MIDDLE.
2. HOOD SHALL BE EXHAUSTED TO OUTSIDE THRU 7"ø DUCT. PROVIDE MANUFACTURER DUCT ADAPTER AND DAMPER.
3. PROVIDE ROOF CAP ON ROOF WITH ROOF CURB FOR RANGE HOOD EXHAUST.
4. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
5. PROVIDE STAINLESS STEEL FINISH FOR THE KITCHEN HOOD.
6. PROVIDE TYPE B FLUE VENT FOR KITCHEN EXHAUST DUCT.

FIRE SUPPRESSION SYSTEM FOR KITCHEN HOOD

MARK	SERVES	LAY-OUT BASIS: GURDIAN SAFTY SOLUTIONS, INC	REMARKS
FS-1	KH-1	GURDIAN III	1:2:3:4

1. FIRE SUPPRESSION SYSTEM SHALL BE LOCATED IN THE CABINET ABOVE KITCHEN HOOD PER MANUFACTURERS INSTRUCTIONS.
2. FIRE SUPPRESSION SYSTEM SHALL BE PROVIDED AND INSTALLED BY GUARDIAN SAFETY SOLUTION, INC QUALIFIED INSTALLER.
3. FOLOW LOCAL FIRE PROTECTION CODES FOR INSTALLING FIRE SUPPRESSION SYSTEM.
4. INTERLOCK RANGE TO FS-1 SUCH THAT RANGE TURNS OFF WHEN FS-1 IS ON.

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	AIRFLOW	SUPPLY AIR CFM	MIN OUTSIDE AIR CFM	EXT. SP. IN. W.G.	NOMINAL TONS	EVAP. COIL ENTERING AIR DESIGN CONDITIONS DB F°	EVAP. COIL ENTERING AIR DESIGN CONDITIONS WB F°	EVAP. COIL LEAVING AIR DESIGN CONDITIONS DB F°	EVAP. COIL LEAVING AIR DESIGN CONDITIONS WB F°	SYSTEM COOLING MAX. REQUIREMENTS (MBH) TOTAL	SYSTEM COOLING MAX. REQUIREMENTS (MBH) SENSIBLE	OUTSIDE AIR TEMP. CONDITIONS DB F°	GAS HEAT MBH STAGE 1 IN/OUT	GAS HEAT MBH STAGE 2 IN/OUT	HEATING COIL @ OUTSIDE 25F ENT. TEMP@LVG. TEMP @ STG 1	HEATING COIL @ OUTSIDE 25F ENT. TEMP@LVG. TEMP @ STG 1	POWER VAC/PH	BASIS OF DESIGN: CARRIER	WEIGHT LBS	NOTES
RTU-1	HORIZONTAL	2,775	500	0.60	7.5	78.2	65.3	55.0	54.0	90.0	68.0	95	125/103	---/--	61.0	95.0	208/3	48FEDM08M2A5-0A0A0	1,050	1:2:3:4:6:7:9:11:12:15:16
RTU-2	HORIZONTAL	2,775	500	0.60	7.5	78.2	65.3	55.0	54.0	90.0	68.0	95	125/103	---/--	61.0	95.0	208/3	48FEDM08M2A5-0A0A0	1,050	1:2:3:4:6:7:9:11:12:15:16
RTU-3	VERTICAL	1,400	250	0.60	4.0	78.2	65.3	55.0	54.0	52.0	38.5	95	50/40	67/54	61.0	84.0	208/3	48GEDN05M2M5-8B0A0	850	1:2:3:4:5:6:8:9:11:12:13:14

1. PROVIDE FILTERS, CONDENSATE TRAP AND PIPING, FLEXIBLE CONNECTIONS, PROGRAMMABLE T-STAT, AND CONDENSATE P-TRAP TO DISCHARGE INTO ROOF DRAIN.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. ROOF TOP UNITS SHALL HAVE MEDIUM STATIC MOTOR.
4. PROVIDE MANUFACTURER'S SUPPLY AIR SMOKE DETECTOR. ELECTRICAL SHALL INTERLOCK IT WITH BUILDING FIRE ALARM SYSTEM. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE OVERFLOW SWITCH.
5. PROVIDE BUILT-IN HUMIDI-MIZER ADAPTIVE DEHUMIDIFICATION SYSTEM.
6. PROVIDE FLUE DISCHARGE DEFLECTOR THAT DEFLECTS FLUE UPWARD. PROVIDE FLUE DISCHARGE HEAT SHIELD.
7. PROVIDE CH 3-4 HORIZONTAL SL ECON W/POL224(CRECOMZR106A00).
8. 2-STAGE COOLING WITH HUMIDI-MIZER. PROVIDE 2-SPEED INDOOR FAN CONTROLLED. PROVIDE DIRECT DRIVE ECO BLUE EVAPORATOR FAN MOTOR.
9. UNDER HEATING MODE SUPPLY CFM SHALL BE SET TO PROVIDE 100% OF AIR. UNDER COOLING MODE STAGE FAN TO MATCH COOLING STAGE.
10. PROVIDE ELECTROMECHANICAL CONTROLS AND LOUVERED HAIL GUARDS.
11. PROVIDE GLOBAL PLASMA SOLUTIONS COMPACT SELF CLEANING IONIZATION SYSTEM. REFER TO SCHEDULE PROVIDED.
12. PROVIDE MANUFACTURER'S UL60335-2-40 APPROVED R-454B DISSIPATION BOARD AND LEAK SENSOR.
13. PROVIDE STANDARD LEAK TEMPERATURE ECONOMIZER WITH BAROMETRIC RELIEF.
14. PROVIDE ELECTROMECHANICAL CONTROLS WITH POL224. PROVIDE THRU THE BOTTOM CONNECTIONS, ROOF CURB, AND LOUVERED HAIL GUARDS.
15. 2-STAGE COOLING. PROVIDE 2-SPEED INDOOR FAN CONTROLLED. PROVIDE DIRECT DRIVE ECO BLUE EVAPORATOR FAN MOTOR.
16. PROVIDE ELECTROMECHANICAL CONTROLS.

SELF-CLEANING IONIZATION SYSTEM SCHEDULE

AIRFLOW CAPACITY MIN-MAX CFM	BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS	NOTES
0-6000	GPS-IMOD	1:2:3:4:5:6:7

1. ONE SELF CLEANING IONIZATION SYSTEM SHALL BE INSTALLED PER SYSTEM.
2. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
3. USE THIS SYSTEM FOR PACKAGED UNITS.
4. MODULAR NEEDLEPOINT BIPOLAR IONIZATION AIR IONIZATION SYSTEM.
5. THE UNIT SHALL MOUNT AT THE INLET OF THE COIL AND SHALL BE SIZED TO FIT THE WIDTH OF THE COIL.
6. UNIT SHALL BE EQUIPPED WITH VOLTAGE SELECTOR SWITCH, ILLUMINATED ON/OFF SWITCH, OPERATION STATUS LED, AND SIX HV OUTPUT PORTS.
7. INTERLOCK IONIZATION SYSTEM TO RUN WITH EVAPORATOR FAN.

FAN SCHEDULE

MARK	CFM	EXT. SP IN W.G.	DRIVE TYPE	MOTOR AMP/WATTS	MAX SONES	POWER/ PHASE	SERVES	BASIS OF DESIGN	NOTES
EF-1	140	0.30	DIRECT	0.47 A	1.3	115/1	B105 WOMEN	DELTA SMT150	1:2:3:4
EF-2	140	0.30	DIRECT	0.47 A	1.3	115/1	B108 MEN	DELTA SMT150	1:2:3:4
EF-3	70	0.30	DIRECT	0.33 A	2.0	115/1	B106 SUPPLY	DELTA ITG100	1:3:4:5

1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION. FAN SHALL BE ENERGY STAR RATED. ALL DUCTWORK FOR FAN SHALL BE SHEET METAL.
2. FAN SHALL BE INTERLOCKED WITH LIGHTS IN THE ROOM IT SERVES. PROVIDE 15 MINUTE TIME DELAY. CONTRACTOR MUST COORDINATE WITH ELECTRICAL.
3. CEILING MOUNTED CENTRIFUGAL FAN. PROVIDE FACTORY SUPPLIED DISCONNECT SWITCH, BACKDRAFT DAMPER, VIBRATION ISOLATION, FAN SPEED CONTROLLER, GRILLE AND MOTOR WITH THERMAL OVERLOAD.
4. PROVIDE AND INSTALL MANUFACTURER'S ROUND DUCT CONNECTION.
5. FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM IT SERVES.

AIR DEVICE SCHEDULE

MARK	SERVICE	NECK SIZE	FACE SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS TITUS	NOTES
S1	SUPPLY	SEE PLANS	---	ALUMINUM	NOZZLE DIFFUSER	1-WAY	DUCT MOUNT	TND-AA	1:7
S2	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TMS	1:2:4
S3	SUPPLY	SEE PLANS	12" X 12"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TMS	1:2:4
R1	RETURN	SEE PLANS	NECK + 1-3/4"	ALUMINUM	FULL LOUVERED FACE	---	SURFACE	350R	6
R2	RETURN	SEE PLANS	24"X24"	ALUMINUM	EGGCRATE	---	LAY-IN	50F	1:3

1. PROVIDE STANDARD WHITE FINISH.
2. INSULATE BACK OF DEVICE.
3. PROVIDE FULL SIZE LINED SHEET METAL PLENUM ON TOP OF GRILLE FOR CONNECTION.
4. BALANCE AIRFLOW TO QUANTITY SHOWN.
5. PROVIDE ALUMINIZED FACE OPERATED DAMPER THAT IS ACCESSIBLE FROM THE FACE OF REGISTER/DIFFUSER.
6. GRILLE SHALL BE SAME COLOR AS THE WALL/DUCT IT IS MOUNTED ON. CONTRACTOR SHALL COORDINATE EXACT GRILLE FINISH WITH ARCHITECTURAL BEFORE PROVIDING A FINISHED COLOR.
7. PROVIDE APERTURE DAMPER.

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MECHANICAL SCHEDULES

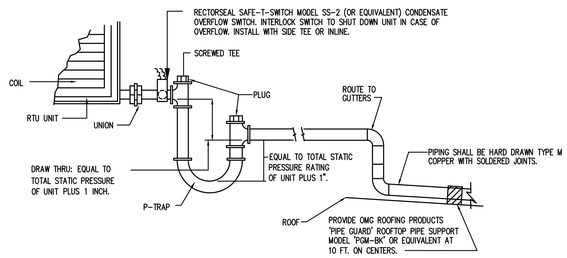
Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

1091 Confederate Highway, Madison, Georgia 30650

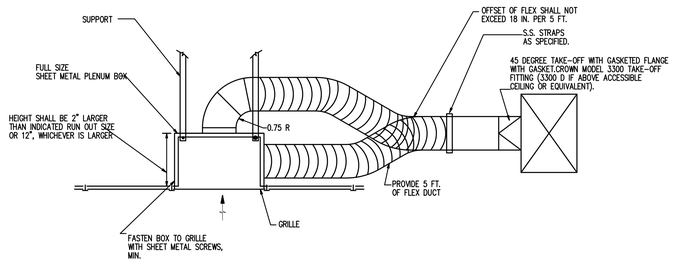
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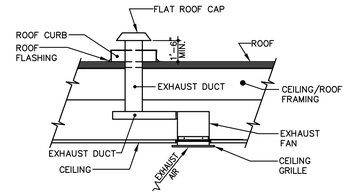
SHEET
M0.2
OF



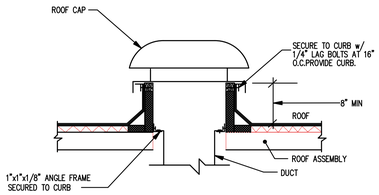
1 CONDENSATE DRAIN FOR ROOF TOP
SCALE: N.T.S.



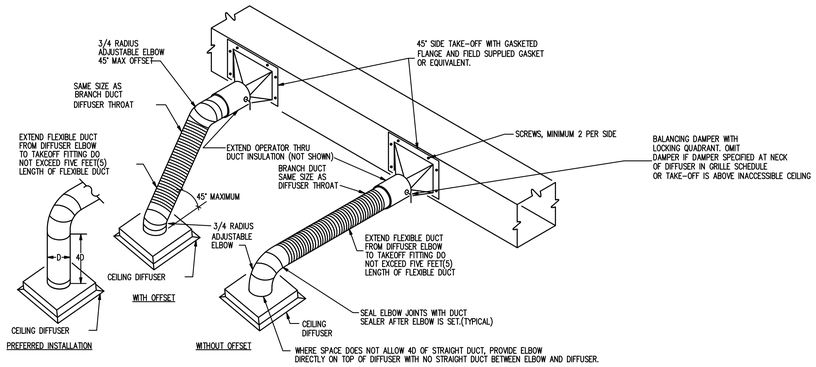
2 TYPICAL GRILLE WITH LINED PLENUM DETAIL
SCALE: N.T.S.



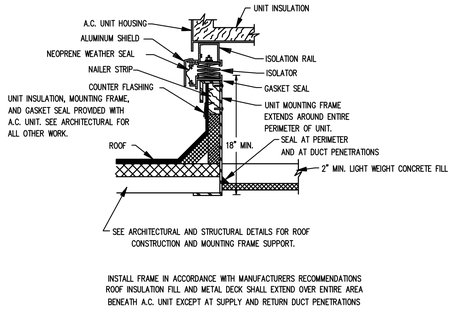
3 CEILING EXHAUST FAN DETAIL
SCALE: N.T.S.



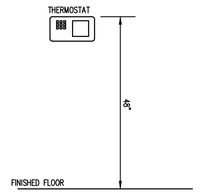
4 ROOF CAP DETAIL
SCALE: N.T.S.



5 DIFFUSER RUN OUT DETAIL
SCALE: N.T.S.



6 ROOFTOP UNIT CURB WITH VIBRATION ISOLATION - DETAIL
SCALE: N.T.S.



7 T-STAT DETAIL
SCALE: N.T.S.

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MECHANICAL DETAILS

Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

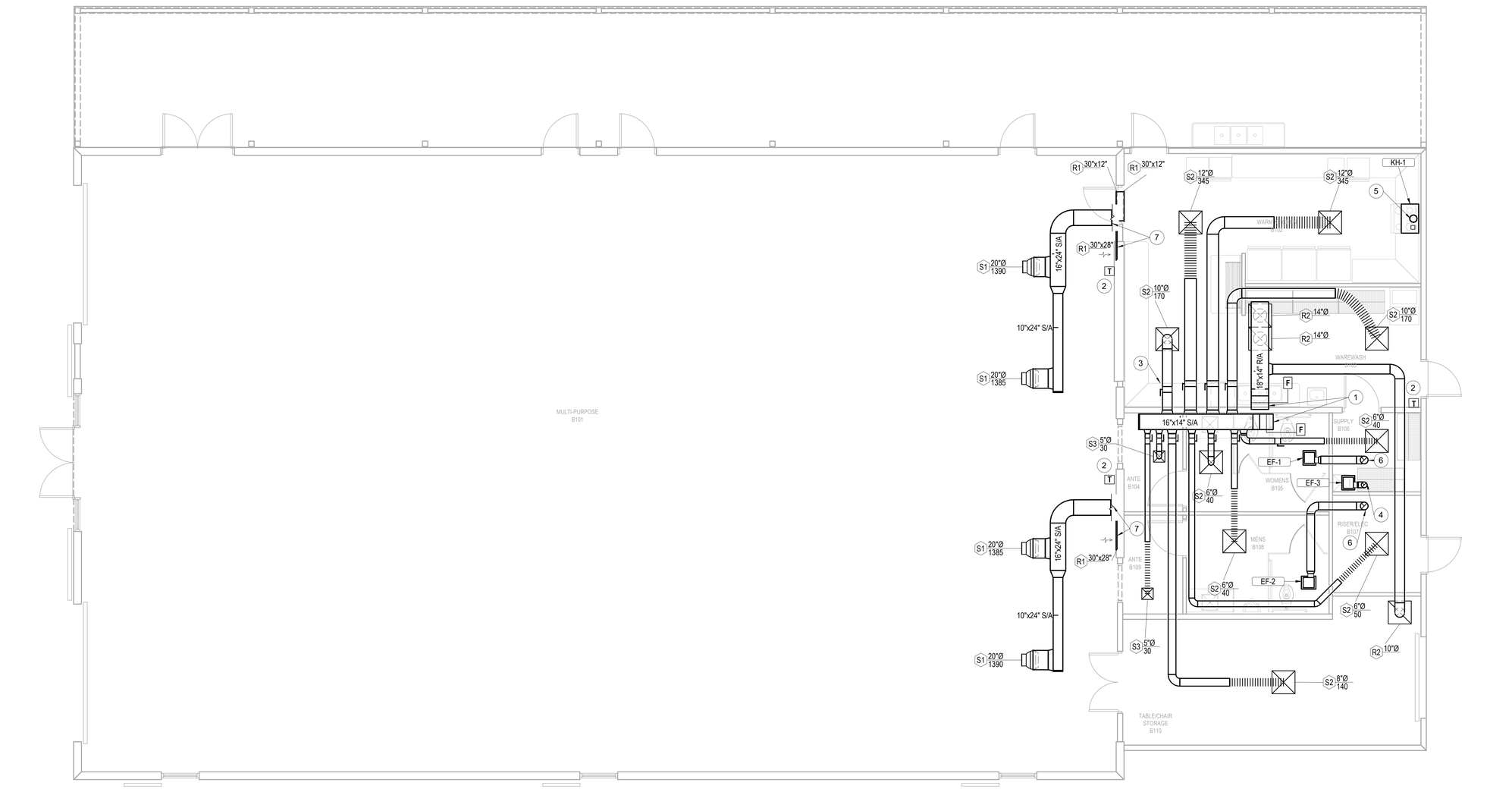
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SHEET
M0.3
OF

#	NEW WORK NOTES - M1.1
NOTE NUMBER	NOTE TEXT
#	
1	DUCT UP TO RTU-3 ON ROOF. TRANSITION TO RTU OPENING SIZE AT UNDER SIDE OF ROOF. RTU3 DUCTS DO NOT NEED LINER.
2	TOP OF THERMOSTAT SHALL BE AT 48" AFF. PROVIDE BREATHABLE CLEAR PLASTIC, TAMPER PROOF AND LOCKABLE THERMOSTAT COVER.
3	TYPICAL MANUAL VOLUME DAMPER.
4	6" Ø EXHAUST DUCT UP TO ROOF CAP.
5	7" Ø EXHAUST DUCT UP TO ROOF CAP.
6	8" Ø EXHAUST DUCT UP TO ROOF CAP.
7	REFER TO SHEET M1.2 FOR CONTINUATION.



1 / M1.1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"

0 2' 4' 8'

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MECHANICAL FLOOR PLAN

Retrofit & Renovations for Madison Methodist Church Phase 2: Party Barn

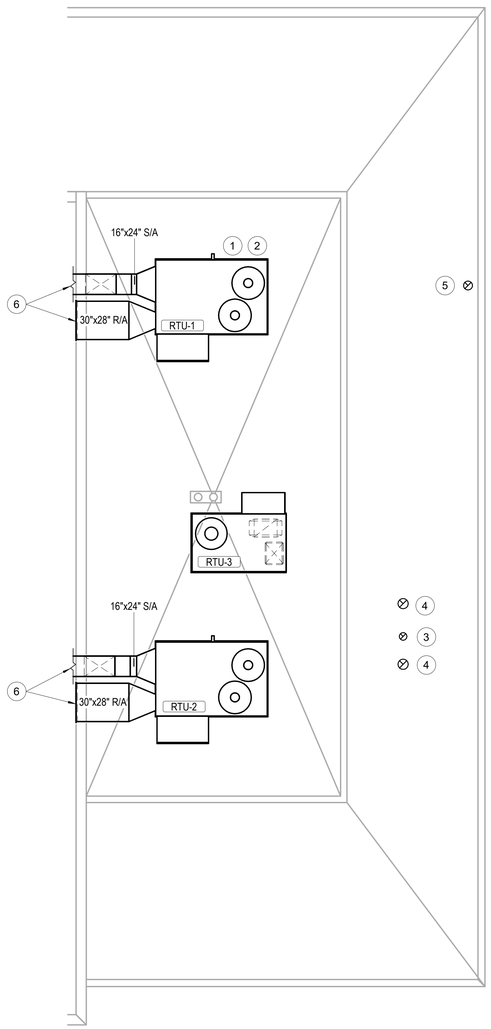
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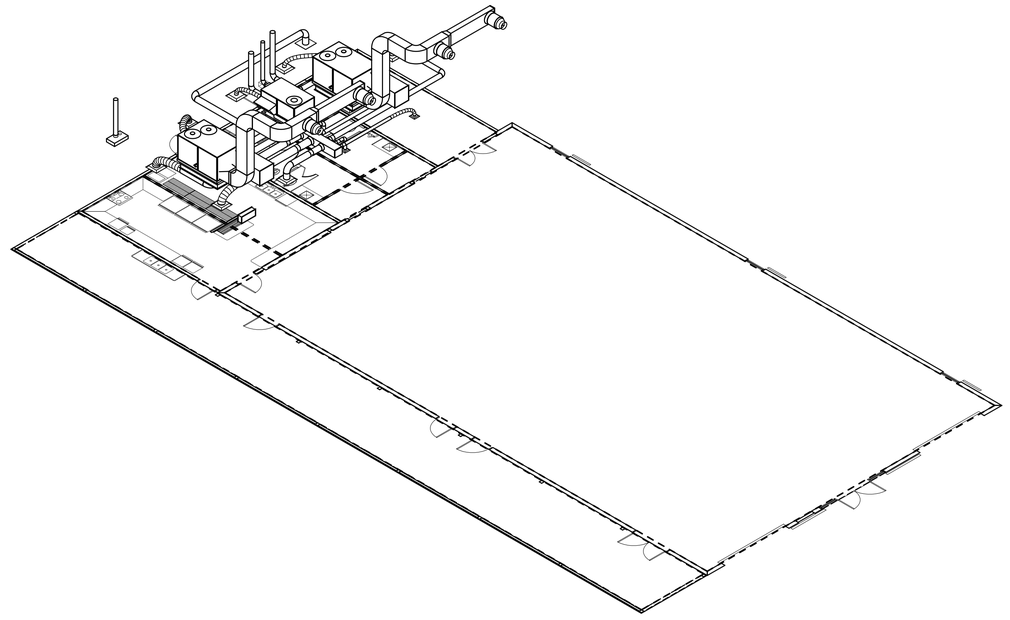
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SHEET
M1.1
OF

#	NEW WORK NOTES - M1.2
NOTE NUMBER	NOTE TEXT
#	
1	OUTDOOR AIR INTAKE OPENINGS OF RTU SHALL BE LOCATED A MINIMUM OF 10 FEET HORIZONTALLY FROM PLUMBING VTR AND EXHAUST ROOF CAPS. TYPICAL FOR ALL RTUs.
2	PROVIDE REQUIRED RTU SERVICE CLEARANCES PER MANUFACTURER'S INSTRUCTIONS. TYPICAL FOR ALL RTUs.
3	6" Ø EXHAUST AIR ROOF CAP. PAINT CAP TO MATCH ROOF.
4	8" Ø EXHAUST AIR ROOF CAP. PAINT CAP TO MATCH ROOF.
5	7" Ø EXHAUST AIR ROOF CAP. PAINT CAP TO MATCH ROOF.
6	REFER TO SHEET M1.1 FOR CONTINUATION.



1 / M1.2 LEVEL 3 HVAC PLAN
1/4" = 1'-0"
0 2' 4' 8'



2 / M1.2 Isometric
NOT TO SCALE

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MECHANCIAL ROOF PLAN

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M1.2
OF

LIGHTING FIXTURE SCHEDULE

A	6 IN. ROUND COMMERCIAL GRADE CYLINDER, PENDANT MOUNTED, COORDINATE COLOR AND STEM LENGTH WITH ARCHITECT. WIDE DISTRIBUTION, 0-10V DIMMING STANDARD, PROVIDE MOUNTING BRACKET OR CANOPY AS REQUIRED. LAMPS: LED, 2600 LUMENS, 29 WATTS, 3000 DEGREE K DRIVER: UNV. VOLT	HALO COMMERCIAL "HCC6" SER., LITHONIA "LDN6" SER., RAYON "RFL-6" SER., OR APPROVED EQUAL
B	2 FT. X 4 FT. RECESSED LED TROFFER, A12.125 LENS, ALUMINUM DOOR FRAME WITH DOOR FRAME GASKETING, STANDARD 0-10 DIMMING. LAMPS: LED, 8000 LUMENS, 49 WATTS, 3000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "GTL" SER., COLUMBIA "LJT" SER., METALUX "GR" SER., OR EQUAL BY H.E. WILLIAMS
C	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. LAMPS: LED, 6000 LUMENS, 50 WATTS, 3000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STAK" SER., METALUX "ACHIEVA" SER., COLUMBIA "CCL" SER., H.E. WILLIAMS "FT" SER.
D	2 FT. X 2 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING. LAMPS: LED, 4000 LUMENS, 34 WATTS, 3000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STAK" SER., METALUX "ACHIEVA" SER., COLUMBIA "CCL" SER., H.E. WILLIAMS "FT" SER.
OA	ARCHITECTURAL WALL PACK WITH DIE-CAST ALUMINUM HOUSING; TYPE 4 DISTRIBUTION; WET LOCATION LISTED. COORDINATE FINISH WITH OWNER/ARCHITECT. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL. LAMPS: LED, 5300 LUMENS, 47 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "WDGE2" SER., MCGRAW-EDISON "IST" SER., BEACON "TRP" SER., GARDCO "101L" SER.
OB	ARCHITECTURAL WALL PACK WITH DIE-CAST ALUMINUM HOUSING; TYPE 4 DISTRIBUTION; WET LOCATION LISTED. COORDINATE FINISH WITH OWNER/ARCHITECT. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL. LAMPS: LED, 3000 LUMENS, 32 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "WDGE2" SER., MCGRAW-EDISON "IST" SER., BEACON "TRP" SER., GARDCO "101L" SER.
EX	LED INTEGRATED THERMOPLASTIC COMBO EXIT/EMERGENCY, IMPACT RESISTANT HOUSING; TOP, END, OR BACK MOUNTING STANDARD, UNIVERSAL FIELD SELECTABLE SINGLE OR DOUBLE FACE. FIELD SELECTABLE RED OR GREEN ILLUMINATION. FIELD SELECTABLE CHEVRONS, WHITE / BLACK ENCLOSURE. (PROVIDE 90 MIN. BACK-UP BATTERY) LAMPS: LED (2), 3 WATTS DRIVER: UNV. VOLT	SURE-LITES "LPX-C" SER., LITHONIA "LHQM" SER., COMPASS "CC" SER., OR EQUAL BY BEGHELLI
EM	LED 2 HEAD EMERGENCY UNIT, ROUND HEAD, LOW PROFILE CONTEMPORARY DESIGN WITH THERMOPLASTIC HOUSING, IMPACT RESISTANT, DAMP LOCATION LISTED. (PROVIDE 90 MIN. BACK-UP BATTERY) LAMPS: LED (2), 6 WATTS DRIVER: UNV. VOLT	LITHONIA "ELM4L" SER., LIGHT ALARMS "LCA" SER., SURELITES "SEL50", OR APPROVED EQUAL
EG	EXTERIOR ARCHITECURAL STYLED LOW PROFILE LED EMERGENCY LIGHTING UNIT, SELF DIAGNOSTICS STANDARD. WET LOCATION WITH FULLY GASKETED HOUSING AND -20C TO 50C OPERATION, PRISMATIC POLYCARB REFRACTOR, BRONZE / BLACK SELECTED BY ARCHITECT. (PROVIDE 90 MIN. BACK-UP BATTERY) LAMPS: LED, 3 WATTS DRIVER: UNV. VOLT	LITHONIA "AFO" SER., MULE "MAKO" SER., SPITZER "EWS" SER., COMPASS "CUW" SER., H.E. WILLIAMS "EMER" SER.

NOTES:
1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.

2. ALL LUMENS LISTED ARE DELIVERED LUMENS. ALL EQUALS TO SPECIFIED FIXTURES SHALL NOT BE ANY LOWER THAN 5% OF SPECIFIED LUMENS. WATTAGE SHALL NOT BE HIGHER THAN 15% OF SPECIFIED WATTAGE.

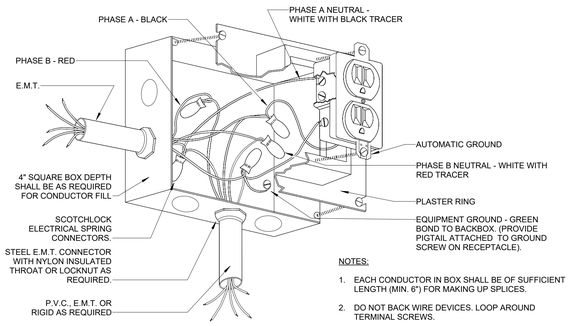
3. LISTING OF MANUFACTURERS DOES NOT EQUAL AUTOMATIC APPROVAL. ALL CHARACTERISTICS NOTED IN DESCRIPTION SECTION MUST BE MET IN ORDER TO BE APPROVED. WHERE VENDOR/REP. DOES NOT HAVE ONE MANUFACTURER LISTED, PRIOR APPROVAL IS REQUIRED TO BE SUBMITTED TO ENGINEER TEN (10) DAYS PRIOR TO BID.

4. PROVIDE UNSWITCHED HOT TO EXIT SIGNS, EMERGENCY FLOOD LIGHTS AND EXTERIOR BUILDING EGRESS LIGHTING.

LEGEND

	LIGHTING AND POWER
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL CONTAINING 3 NUMBER 12 CONDUCTORS UNLESS SHOWN OTHERWISE. HASH MARKS, IF SHOWN, INDICATE QUANTITY OF NUMBER 12 CONDUCTORS. WHERE DRAWING SPACE PROHIBITS HASH MARKS BEING SHOWN REFER TO CIRCUIT NUMBERS AND PROVIDE REQUIRED NUMBER OF CONDUCTORS PER CIRCUIT TYPE.
	CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB, OR UNDERGROUND.
A-2,4,6	HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARDS, NUMBERS INDICATE CIRCUIT NUMBERS.
	EXPOSED CONDUIT RUN.
	L.E.D. LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
	L.E.D. FIXTURE, SURFACE OR RECESSED MOUNTED. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
	L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS NOTED.
	L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS NOTED. SEE FIXTURE SCHEDULE FOR BATTERY PACK INFORMATION (IF APPLICABLE).
	EXIT LIGHT.
	EMERGENCY PACK FIXTURE.
	DUPLEX CONVENIENCE OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED. 5" INDICATES THE CIRCUIT NUMBER.
	DUPLEX CONVENIENCE OUTLET, GFI TYPE, +18" TO CENTER LINE UNLESS OTHERWISE NOTED. "WP" WHERE SHOWN INDICATES WEATHER-RESISTENT DEVICE WITH METAL IN-USE WEATHERPROOF COVER.
	DUPLEX CONVENIENCE OUTLET, GFI TYPE. MOUNTED ABOVE COUNTER AT +46" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.
	QUADRUPLEX RECEPTACLE, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
	SINGLE POLE TOGGLE SWITCH, +46" TO CENTER LINE MOUNTING HEIGHT.
	THREE OR FOUR WAY SWITCH AS INDICATED. +46" TO CENTER LINE MOUNTING HEIGHT.
	LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER. 0-10VDC CAPABLE THREE WAY DIMMER. +46" MOUNTING HEIGHT. LUTRON "DIVA 0-10V" OR EQUAL BY LEVITON, WATTSTOPPER, HUBBELL, OR COOPER. (NO ADDITIONAL POWER PACK REQUIRED). DIVISION 26 SHALL PROVIDE ALL ADDITONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR A PROPER 0-10VDC OPERATION. GRAY FINISH.
	PANELBOARD, SEE SCHEDULE.
	DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS. FUSED PER MANUFACTURER'S NAME PLATE DATA OF EQUIPMENT SERVED.
	SINGLE OR DOUBLE POLE, MINIMUM 20 AMP MOTOR RATED ENCLOSED SWITCH WITH "LOCK-OUT" OPTION. MOUNTED NEAR EQUIPMENT BEING SERVED.
M	MOTOR.
	OCCUPANCY SENSORS
	SWITCH, WALL MOUNTED OCCUPANCY SENSOR (WATTSTOPPER PW-100 OR EQUAL). +46" TO CENTER LINE MOUNTING HEIGHT.
	DUAL TECHNOLOGY 360° OCCUPANCY SENSOR. CEILING MOUNTED. INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)

	FIRE ALARM SYSTEM (FULL VOICE EVAC SYSTEM)
VE	VOICE EVACUATION SIGNAL, SPEAKER, AND STROBE LIGHT, 80 IN. ABOVE FLOOR TO THE BOTTOM OF THE LENS. ("WP" INDICATES WEATHERPROOF.)
SL	STROBE LIGHT, 80 IN. ABOVE FLOOR TO THE BOTTOM OF THE LENS.
F	FIRE ALARM PULL STATION. WALL MOUNTED 42 IN. ABOVE FLOOR.
FACP	FIRE ALARM CONTROL PANEL. SURFACE WALL MOUNTED.
EVAC	FIRE ALARM VOICE EVAC PANEL. SURFACE WALL MOUNTED.
	HEAT DETECTOR, CEILING MOUNTED, 135 DEGREE OPERATION.
	SMOKE DETECTOR, CEILING MOUNTED, PHOTOELECTRIC TYPE.
CO	CARBON MONOXIDE DETECTOR, CEILING MOUNTED.
FG	FUEL GAS DETECTOR, CEILING MOUNTED. NFPA 715 (2023 EDITION) COMPLIANT. MUST BE SAME MANUFACTURER OR COMPATIBLE WITH MANUFACTURER OF FIRE ALARM SYSTEM.
FAA	FIRE ALARM LCD REMOTE ALPHANUMERIC ANNUNCIATOR. FLUSH WALL MOUNTED.
DD	FIRE ALARM DUCT SMOKE DETECTOR LOCATED IN HVAC SUPPLY AIRE DUCT. PROVIDE IN UNITS 2000 CFM AND GREATER. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
VS	TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
WF	FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.
FCSU	FIRE ALARM CONNECTION TO HOOD EXTINGUISHING SYSTEM. SEE MECHANICAL DRAWINGS FOR LOCATION.
MIC	VOICE EVACUATION REMOTE MICROPHONE.
PIV	POST INDICATOR VALVE.
DCV	DOUBLE CHECK VALVE.
	TELEPHONE / DATA SYSTEMS
TB	PLYWOOD BACKBOARD "T.B." INDICATES TELECOMMUNICATIONS BOARD.
	DATA OUTLET., +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE. TWO DATA JACKS AND CABLES PER OUTLET.
	DATA OUTLET., +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE. TWO DATA JACKS AND CABLES PER OUTLET.
AP	DATA OUTLET, (WIRELESS ACCESS POINT), +6" ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. WHERE THERE IS NO CEILING OR HIGH CEILING, WALL MOUNT AT +11' A.F.F.
	C.C.T.V. SYSTEM (RACEWAY, BOXES, AND PULL STRING ONLY)
C	CCTV SYSTEM CAMERA, WALL MOUNTED. PROVIDE JUNCTION BOX AND 1 IN. C. WITH PULL STRING TO SECURITY EQUIPMENT LOCATION. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL.



NOTES:
1. EACH CONDUCTOR IN BOX SHALL BE OF SUFFICIENT LENGTH (MIN. 6") FOR MAKING UP SPLICES.
2. DO NOT BACK WIRE DEVICES. LOOP AROUND TERMINAL SCREWS.
3. FACE OF PLASTER RING SHALL BE FLUSH WITH WALL.

1 / E1.1 DETAIL - RECEPTACLE CONNECTION
NO SCALE

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HA1-1,b

- PANEL DESIGNATION:
- FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN
- CIRCUIT NUMBER:
- SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPARE/AREA

B/ HA1 -1, b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

GENERAL NOTES:

A. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4 IN. IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE. CAREFULLY COORDINATE ROUGH-IN WITH BLOCK MASONS AND GROUT-IN CELL CONTAINING OUTLET BOX.

B. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS. MOUNTING HEIGHTS AS INDICATEDON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.

C. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.

D. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

BRAVO BLDG SET 08-31-2026

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ELECTRICAL LEGEND, SCHEDULES, & DETAILS

Retrofit & Renovations for Madison Methodist Church Phase 2: Activity Barn

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	TW
CHECKED BY:	JM
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.01.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	03.10.26

REVISIONS:

1		DATE
2		00.00.26
3		
4		
5		
6		
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ELECTRICAL SPECIFICATIONS

DIVISION 26

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO RETROFIT & RENOVATIONS FOR MADISON METHODIST CHURCH PHASE 2, MADISON, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.

3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

4. ALL PERMITS AND FEES SHALL BE OBATINED AND PAID FOR BY THE CONTRACTOR.

5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.

6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.

7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.

8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.

9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.

10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.

11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.

12. EQUIPMENT BREAKER AND WIRING REQUIREMENTS; THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF BREAKER AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURERS SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE AND MINIMUM CIRCUIT AMPACITY SIZE. WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS), THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER. ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST NE INCLUDED IN THE VALUE ENGINEERING OVERALL CHANGE ORDER COST. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, BREAKER AND WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.

2. ALL INTERIOR 120/208 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR "MC" CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF "MC" CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN 3/4" ELECTRICAL METALIC CONDUIT MINIMUM. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT. GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE.

3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.

4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.

5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.

6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).

7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.

8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR. TAMPER RESISTANT (TR) TYPE.

9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.

10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.

11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.

12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.

13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL. THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.

2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE I ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.

3. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE I ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.

4. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.

5. PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V AND 14,000 AIC FOR 277/480V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR, PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS: SQUARE D, GE, SEIMENS, AND CULTER HAMMER. ALL CURRENT CARRYING PARTS SHALL BE COPPER.

6. SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.

7. PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE INDETIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.

8. PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USEAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.

2. ALL LIGHTINGFIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.

3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.

4. BALLAST SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).

5. ALL LIGHTING FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. FIXTURS, BALLAST AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 55,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.

6. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.

7. ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.

8. CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.

9. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

SECTION E: FIRE ALARM SYSTEM (FULL VOICE EVAC SYSTEM COMPLETE WITH MICROPHONE PER CURRENT NFPA CODES)

1. ACCEPTABLE MANUFACTURERS: NOTIFIER, FIRE LITE, EDWARDS, OR SILENT KNIGHT.

2. PROVIDE A COMPLETE OPERABLE FIRE ALARM VOICE EVAC SYSTEM FOR THIS PROJECT. THE MAIN PANEL SHALL BE LOCATED AS SHOWN. THE FIRE ALARM SYSTEM SHALL BE DESIGNED FOR CLASS B OPERATION. THE WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN 1/2 IN. ELECTRICAL METALLIC TUBING. PROVIDE INSULATED FITTINGS ON ALL CONDUIT ENDS. THE FIRE ALARM SHALL BE MADE IN THE USA AND BE UL LISTED. ALL WIRING AND DEVICES FOR THE SYSTEM SHALL BE SUPERVISED. COLOR CODE THE CONDUIT EVERY 24 IN. WITH RED MARKINGS (EXCEPT WHERE EXPOSED).

3. THE MAIN PANEL SHALL HAVE A BATTERY BACKUP AND BE SURGE PROTECTED. THE BATTERY SHALL BE CAPABLE OF PROVIDING NORMAL OPERATION FOR A PERIOD OF 24 HOURS WITH ENOUGH RESERVE TO ANNUNCIATE A BUILDING ALARM FOR 90 MINUTES.

4. NEW DEVICES SHALL BE PROVIDED WITH RECESSED METAL BOXES. ALL DEVICES SHALL BE MOUNTED FLUSH WITH WALL EXCEPT FOR PULL STATIONS WHICH SHALL BE SEMI-FLUSH.

5. NEW SPEAKER/STROBE DEVICES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. THE SPEAKER SHALL PRODUCE A SOUND LEVEL OF 90 DECIBELS AND THE STROBE SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELA. BOTH SOUND PRESSURE AND STROBE INTENSITY SHALL BE FIELD SELECTABLE AND ADJUSTABLE.

6. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.

7. NEW PULL STATIONS SHALL BE NON-GLASS BREAK TYPE AND KEYED THE SAME AS THE FIRE ALARM PANEL.

8. THE SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE POWERED FROM THE MAIN FIRE ALARM PANEL.

9. THE GENERAL BUILDING ALARM WILL SOUND WHEN ACTIVATED AT THE CONTROL PANEL, BY SMOKE OR HEAT DETECTORS, OR BY A PULL STATION. ALARM WILL ALSO SOUND WHEN ACTIVATED BY A DUCT SMOKE DETECTOR OR SPRINKLER.

10. THE MAIN PANEL SHALL PROVIDE INDICATION OF EACH INITIATING DEVICE LOCATION FOR ALARM, TROUBLE, AND SUPERVISORY CONDITIONS. THE PANEL SHALL HAVE LAMP TEST, ALARM SILENCE, TROUBLE, AND SUPERVISORY SILENCE, SYSTEM RESET, AND ALARM INITIATE CONTROLS. THE PANEL SHALL ALSO INDICATE VOLTAGE AND BATTERY TEST. THE PANEL SHALL ALSO INCLUDE AN LCD DISPLAY. PANEL SHALL BE IN A SURFACE MOUNTED ENCLOSURE WITH LOCKABLE, SEE THROUGH, HINGED FRONT COVER.

11. THE FIRE ALARM PANEL SHALL BE EQUIPPED WITH A DIGITAL TRANSMITTER AND CELLULAR COMMUNICATOR FOR OFF PREMISES REMOTE MONITORING (FIRE DEPARTMENT) DURING ALARM CONDITION. PROVIDE 3/4 IN. CONDUIT FROM FIRE ALARM PANEL TO TELEPHONE BACKBOARD. FIELD COORDINATE.

12. PROVIDE REMOTE ANNUNCIATOR PANEL AS SHOWN ON PLANS. THE ANNUNCIATOR PANEL SHALL BE PROVIDED WITH AN LCD DISPLAY AND COMPLETE CONTROL PUSH BUTTONS INCLUDING, BUT NOT LIMITED TO, ALARM ACKNOWLEDGE, ALARM SILENCE, RESET, ETC.

13. PROVIDE PHOTO ELECTRIC TYPE DUCT MOUNTED SMOKE DETECTORS WHERE SHOWN IN HVAC SUPPLY DUCT. UNIT SHALL HAVE SAMPLING TUBES THAT EXTEND THE WIDTH OF THE DUCT. PROVIDE REMOTE INDICATOR ACCESSIBLE IN NEAREST MECH/ELEC ROOM FOR EACH DETECTOR, WHICH WILL INDICATE WHICH DETECTOR IS ACTIVATED.

14. SEE FIRE ALARM SUBCONTRACTOR SUBMITTAL TO AUTHORITY HAVING JURISDICTION FOR ADDITIONAL REQUIREMENTS. FIRE ALARM SUBCONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE, AND LOCAL CODES.

SECTION E(1): FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION:

IN ACCORDANCE WITH CHAP 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:

1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.

2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.

3. A FIRE ALARM RISER DIAGRAM.

4. A FLOOR PLAN LAYOUT WITH ROOM NAMES, DOOR LOCATIONS, FIXTURES (DRAWN TO SCALE) SHOWING LOCATION OF ALL DEVICES AND CONTROL EQUIPMENT. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS IS THE MINIMUM REQUIRED. PROVIDE ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.

5. THE FIRE ALARM SYSTEM WIRING LAYOUT DESIGN WHICH INCLUDES THE GAUGE(S) OF WIRING INSTALLED.

6. THE SEQUENCE OF OPERATION IN EITHER INPUT/OUTPUT MATRIX OR NARRATIVE FORM.

7. EQUIPMENT TECHNICAL DATA SHEETS FOR ALL COMPONENTS SPECIFIED IN THE FIRE ALARM SYSTEM DESIGN.

8. MANUFACTURERS PUBLISHED INSTRUCTIONS, INCLUDING OPERATION AND MAINTENANCE INSTRUCTIONS.

9. BATTERY CALCULATIONS.

10. A SET OF NAC VOLTAGE DROP/LOAD CALCULATIONS.

11. SPEAKER WATTAGES AND DECIBEL RATINGS FOR HORN ALARM SYSTEM COMPONENTS.

12. THE CANDELA RATING SHOWN FOR DRAWINGS FOR EACH STROBE/VISUAL DEVICE AND EACH ILLUMINATED EMERGENCY EXIT SIGN FIRE ALARM SYSTEM MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE (120-3-20), LIFE SAFETY CODE (NFPA 101) AND THE NATIONAL FIRE ALARM CODE (NFPA 72).

DIVISION 27

TELE / DATA NETWORK

SECTION F: CONDUIT AND OUTLET SYSTEM FOR TELE / DATA NETWORK

1. PROVIDE A COMPLETE SYSTEM OF CONDUITS AND OUTLET BOXES FOR SYSTEMS AS REQUIRED. EACH OUTLET SHALL HAVE A CONDUIT ROUTED FROM THE FLUSHED RECESSED OUTLET BOX UP TO THE ACCESSIBLE CEILING SPACE ABOVE, TURN CONDUIT OUT ABOVE CEILING WITH A 90° HORIZONTAL ELBOW AND TERMINATE WITH AN INSULATED BUSHING. WHERE CEILING FINISH IS EXPOSED STRUCTURE (I.E. NO ACOUSTICAL TILE CEILING), EXTEND CONDUIT TO AN AREA WITH AN ACCESSIBLE CEILING. WHERE THERE ARE NO ACCESSIBLE CEILINGS, EXTEND CONDUIT TO BACKBOARD OR DATA RACK/CABINET AND TERMINATE WITH AN INSULATED BUSHING.
2. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. CONDUIT SHALL BE MINIMUM 1", WITH EXPOSED CONDUIT MINIMUM 3/4" TRADE SIZE. PROVIDE NYLON PULL STRING IN ALL CONDUIT. ALL CONDUIT FOR HORIZONTAL TELE / DATA CABLES AND FOR INTERIOR BACKBONE CABLING BETWEEN MDF AND IDF, SHALL BE ROUTED ABOVE GROUND AND SHALL BE EMT WITH COMPRESSION FITTINGS WHERE CONCEALED OR NOT SUBJECT TO DAMAGE, WHERE EXPOSED AND SUBJECT TO DAMAGE CONDUIT IS TO BE RIGID STEEL WITH THREADED FITTINGS.
3. PROVIDE SERVICE ENTRANCE CONDUIT BELOW GRADE AT LOCATION AND ROUTING SHOWN OR NOTED. CONDUIT IS TO BE A MINIMUM OF TWO CONDUITS, EACH (3", ONE WITH THREE 1" INNERDUCTS) (4", ONE WITH THREE 1-1/4" INNERDUCTS) PROVIDE PULL STRING IN EACH DUCT / INNERDUCT AND PROVIDE TRACER WIRE IN EACH CONDUIT.
4. ALL CONDUIT FOR FIBER OPTIC CABLE SHALL UTILIZE LONG RADIUS ELBOWS, INSIDE RADIUS OF BEND OF NOT LESS THAN 18" FROM CENTER OF CURVATURE.
5. LOCATION OF OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS AND HEIGHTS AS DEFINED ON LEGEND OR ELSEWHERE IN SPECIFICATIONS OR ON DRAWINGS.
6. ALL RECESSED WALL OUTLETS AND BOXES IN NEW CONSTRUCTION SHALL BE TWO GANG TYPE, 4" X 4" X 2 1/8" DEEP, WITH SINGLE GANG PLASTER RINGS. PLASTER RINGS SHALL BE FLUSH WITH FINISH OF WALL. COORDINATE DEPTH OF PLASTER RING REQUIRED WITH TYPE OF WALL CONSTRUCTION. FOR SURFACE MOUNT BOXES PROVIDE 4" X 4" X 2 1/8" BOX WITH 2 GANG FACEPLATE WITH CENTERED SINGLE GANG KNOCKOUTS / PORT CUTOUTS. SEE SPECIFICATION F TELE / DATA NETWORK FOR FACEPLATE INFORMATION.
7. COLOR AND MATERIAL OF FACEPLATES IS TO MATCH CONVENIENCE OUTLETS AND LIGHT SWITCHES, COORDINATE COLOR WITH ARCHITECT.
8. BOXES FOR RECESSED INSTALLATION SHALL BE STANDARD SHEET METAL TYPE, FOR EXPOSED BOX LOCATIONS PROVIDE CAST TYPE BOX WITH THREADED HUBS.
9. PROVIDE JUMBO BLANK WALL PLATES FOR ALL OUTLETS NOT CABLED, FINISH TO MATCH ALL OTHER OUTLETS.

SECTION G: TELE / DATA NETWORK

1. GENERAL: THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TELE / DATA NETWORK AS FOLLOWS AND AS SHOWN ON PLANS. TELE / DATA NETWORK IS TO INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION OF A PLYWOOD BACKBOARD, WITH (WALL / FLOOR) MOUNT CABINET/RACK(S), BACKBONE AND OR HORIZONTAL CABLING AND CABLE PATHWAY SYSTEM, CABLE TERMINATIONS, WORKSTATION AND PATCHING CABLES, OUTLETS/CONNECTORS, BOXES, AND FACEPLATES. BOXES ARE TO BE FLUSH / RECESSED IN WALL AND CONDUIT CONCEALED IN WALL OR ABOVE CEILING, UNLESS NOTED OTHERWISE.
2. ALL PRODUCTS ARE TO BE INSTALLED PER THE INSTALLATION DETAILS AND REQUIREMENTS OF THE RESPECTIVE MANUFACTURER NECESSARY TO MAINTAIN PERFORMANCE STANDARDS AND WARRANTY REQUIREMENTS. OBTAIN AND COORDINATE ALL INSTALLATION INSTRUCTIONS PRIOR TO ROUGH IN OF ANY CABLE PATHWAY.
3. CODES AND STANDARDS: CONTRACTOR IS TO COMPLY WITH THE LATEST VERSION, INCLUDING SUPPLEMENTS, OF THE FOLLOWING STANDARDS OR CODES:
   a. EIA / TIA - 568 COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING.
   b. EIA / TIA - 569 COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES.
   c. EIA / TIA - 606 ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
   d. EIA / TIA - 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
4. QUALIFICATIONS: DATA / VOICE CONTRACTOR SHALL SUBMIT CERTIFICATION STATING THAT HE IS AN AUTHORIZED REPRESENTATIVE AND CERTIFIED INSTALLER FOR THE MANUFACTURER OF THE EQUIPMENT HE IS SUBMITTING FOR APPROVAL. INSTALLATION SHALL BE COMPLETED BY TECHNICIANS THAT ARE FACTORY CERTIFIED FOR THE MANUFACTURER WHO'S PRODUCTS ARE BEING INSTALLED. SUBMIT VALID LOW VOLTAGE LICENSE OR CERTIFICATION OF AGENCY, VALID BICSI RCDD CERTIFICATE FOR CONTRACTOR, AND FACTORY CERTIFICATIONS FOR INSTALLATION TECHNICIANS, FOR REVIEW PRIOR TO ROUGH IN.
5. WARRANTY: CABLING AND CONNECTORS FOR HORIZONTAL STATION OUTLET SERVICE ARE TO BE PROVIDED, TESTED AND WARRANTED AS A COMBINED END TO END SYSTEM. THE CONTRACTOR SHALL FURNISH WRITTEN LIMITED WARRANTY THAT DESCRIBES THE EQUIPMENT SUPPLIED UNDER THIS SPECIFICATION WILL BE FREE FROM DEFECTS OF MANUFACTURER MATERIAL OR WORKMANSHIP FOR A PERIOD OF FIFTEEN (15) YEARS FROM THE DATE OF FINAL ACCEPTANCE, AND FOR INSTALLATION MATERIAL AND TESTING OF HORIZONTAL CHANNEL SHALL BE FREE OF DEFECT FOR A PERIOD OF TWO (2) YEARS. ALL DEFECTS OCCURRING WITHIN THOSE PERIODS SHALL BE CORRECTED IN A TIMELY MANNER AT NO COST TO OWNER.
6. SUBMITTALS: CONTRACTOR IS SUBMIT THE FOLLOWING INFORMATION FOR REVIEW PRIOR TO PROCUREMENT OF ANY PRODUCT SPECIFIED:
   a. CONTRACTOR AND INSTALLER CERTIFICATIONS.
   b. SUBMIT A ONE-LINE SCHEMATIC OF THE COMPLETE SYSTEM SHOWING FLOOR PLAN TO SCALE, SHOWING LOCATIONS AND TYPES OF EQUIPMENT AND CABLES.
   c. MANUFACTURERS STANDARD PRODUCT DATA FOR ALL ITEMS PROVIDED, ALL CUT SHEETS SHALL BE FULLY ANNOTATED TO INDICATE PRODUCTS PROPOSED.
   d. MANUFACTURERS PUBLISHED WARRANTY INFORMATION.
   e. SUBMIT SAMPLE TEST REPORT, AND TESTING EQUIPMENT TO BE USED.
   f. DOCUMENTATION OF TESTING / TEST DATA RESULTS OF ALL WIRING AND TERMINATIONS AND CONFORMANCE TO WARRANTY REQUIREMENTS (SUBMITTED AFTER INSTALLATION).
7. TESTING AND CERTIFICATIONS:
   a. COPPER CABLE SYSTEMS: ALL DATA AND VOICE TERMINATIONS SHALL BE TESTED AND CONFORM TO TIA/EIA-569.C.2 FOR STANDARD. TESTING SHALL BE ACCOMPLISHED USING A POE (CLASS 1-8) CABLE + NETWORK SCANNER, FLUKE LIQ-100 OR FLUKE MS-POE-IE, (OR PRIOR APPROVED EQUAL). TEST EACH PAIR AND SHIELD OF CABLE FOR OPENS, SHORTS, GROUNDS AND PAIR REVERSALS, CORRECT ALL GROUNDS OR PAIR REVERSALS, WHERE A REPAIR IS NOT POSSIBLE REPLACE ENTIRE CABLE AND RETEST TO ENSURE COMPLIANCE WITH STANDARDS.
   b. TEST RESULTS: ALL COMMUNICATIONS OUTLETS WIRED AND SERVICEABLE AND SUPPORTING HORIZONTAL OR BACKBONE CABLING SHALL BE FULLY TESTED PER THE APPROPRIATE STANDARD NOTED ABOVE AND TEST RESULTS SUBMITTED TO SHOW COMPLIANCE WITH STANDARDS, INCLUDING AT LEAST THE FOLLOWING INFORMATION OR ITEMS CLEARLY DETAILED, NOT LESS THAN 7 DAYS PRIOR TO FINAL INSPECTION:
      1. WIRE MAP
      2. LENGTH
      3. INSERTION LOSS
      4. NEAR-END CROSSTALK (NEXT)
      5. POWER SUM NEAR END CROSSTALK (PSNEXT)
      6. EQUAL-LEVEL FAR END CROSSTALK (ELFEXT)
      7. POWER SUM EQUAL-LEVEL FAR END CROSSTALK (PSELFEXT)
      8. RETURN LOSS
      9. PROPAGATION DELAY
8. RACK AND CABINET:
   a. WALL MOUNT DATA CABINET: PROVIDE AND INSTALL A WALL MOUNT SWING GATE TYPE ENCLOSED LOCKABLE CABINET WITH CLEAR PLEXI FRONT DOOR INSERT, HAVING FRONT AND REAR HINGES TO ALLOW FRONT OR REAR ACCESS TO CONNECTIONS. THE CABINET IS TO BE SIZED FOR INSTALLATION OF STANDARD 19" PANELS AND CABLE MANAGEMENT AND HAVE FULLY ADJUSTABLE EIA COMPLIANT MOUNTING RAILS. ENCLOSURE IS TO BE PROVIDE WITH FRONT AND REAR WIRE MANAGEMENT FOR EACH PATCH PANEL OR PLATE, A GROUND BAR, AND VENTS ON TOP, BOTTOM AND BOTH SIDES. PROVIDE CABINET WITH 24U VERTICAL MOUNTING SPACE AND MIN. 24" DEPTH. SECURE THE CABINET TO WALL BY MINIMUM 300 POUND ANCHORS. WHERE ON DRYWALL ENSURE THE ANCHORS ARE SUPPORTED FROM STUD IN WALL. CABINET TO BE CHATSWORTH "CUBE-iT" SERIES, SIEMON "WC2P" SERIES, OR APPROVED EQUAL.
9. ENHANCED CATEGORY 6 (6E) CABLE AND CONNECTORS:
   a. CAT 6E CABLE: PROVIDE AND INSTALL PREMIUM / ENHANCED CATEGORY 6 (6E) DATA CABLE AND CONNECTORS AT LOCATIONS AND QUANTITIES SHOWN OR NOTED ON THE PLANS FOR VOICE AND DATA COMMUNICATIONS SYSTEM. CABLE IS TO HAVE FOUR (4) UNSHIELDED TWISTED PAIRS (UTP) OF CONDUCTORS THAT ARE MINIMUM 23 AWG INDIVIDUALLY INSULATED, WITH A CENTER ISOLATION MEMBER SEPARATING EACH OF THE 4 INDIVIDUALLY TWISTED PAIRS. PROVIDE CABLES THAT MEET OR EXCEED THE PERFORMANCE STANDARDS OF ANSI / TIA-568.2-D AND ISO / IEC 11801-1, AND ARE MANUFACTURER TESTED TO 550 MHz FREQUENCY, MINIMUM. THE JACKET IS TO BE PLENUM RATED (CMP) WITH FEP INSULATION, BLUE COLOR, OR AS SHOWN AND NOTED ON DRAWINGS, OR AS DIRECTED BY OWNER. CABLE IS TO BE SIEMON "PREMIUM 6 UTP (9C6PR-E4-XX)" SERIES OR APPROVED EQUAL.
   b. WORST CASE TRANSMISSION PERFORMANCE ACCEPTABLE FOR CAT 6E CABLE AT 550 MHz, BASED ON 100 METER CHANNEL LENGTH:
      1. INSERTION LOSS - 50.2dB
      2. NEXT - 40.2dB
      3. PSNEXT - 38.2dB
      4. ACR - -10.0dB
      5. PSACR - -12.0dB
      6. ACR-F - 19.9dB
      7. PSACR-F - 16.9dB
      8. RETURN LOSS - 14.9dB
      9. PROPOGATION DELAY - 536ns
   c. CAT 6 CONNECTORS: PROVIDE AN INSTALL CATEGORY 6 MODULAR CONNECTORS THAT ARE DUAL LABELED FOR 568-A/B INSTALLATION AND USE. PROVIDE ANGLED MODULES FOR WORKSTATION OUTLETS AND FLAT FRONT MODULES FOR INSTALLATION IN PATCH PANELS OR FOR WALL MOUNT PHONE / DEVICE INSTALLATION. PROVIDE CONNECTORS ON EACH END OF EACH CABLE, AND PROVIDE AN ADDITIONAL 20% OF THE TOTAL NUMBER OF CONNECTORS USED AS SPARE. CONNECTOR MODULES ARE TO BE SIEMON "MAX-6 (MX6)" OR "Z-MAX-6 (Z6)" SERIES OR APPROVED EQUAL.
   d. CAT 6 PATCH / STATION CORDS: FOR EACH CATEGORY 6 OR 6E TELE / DATA PORT INSTALLED, PROVIDE ONE WORKSTATION CABLE AND ONE PATCH CORD. CABLES ARE TO BE STANDARD CATEGORY 6. STATION CABLES ARE TO BE BLUE AND 2 METER IN LENGTH, PATCH CORDS ARE TO BE 2 METERS IN LENGTH AND YELLOW IN COLOR. CABLES / CORDS ARE TO BE SIEMON "MC-6 UTP" SERIES OR APPROVED EQUAL.
10. PATCH PANEL AND WIRE MANAGEMENT:
    a. FOR WALL MOUNT DATA CABINET, PROVIDE MODULAR PATCH PANELS THAT ARE COMPATIBLE WITH CONNECTOR MODULES SPECIFIED. PATCH PANELS ARE TO BE STANDARD 19" WIDTH, TYPICALLY 1U MOUNTING HEIGHT FOR 16 OR 24 PORT PANELS AND HAVE FLAT FRONT CONNECTOR MODULES, AND 2U MOUNTING HEIGHT FOR 48 PORT PANELS. PROVIDE TYPICAL 16, 24 OR 48 PORT FLAT PANELS AS NOTED ON DRAWINGS OR AS REQUIRED FOR FULL INSTALLATION. PANELS ARE TO HAVE ONE PORT FOR EACH HORIZONTAL CABLE PLUS 25% SPARE / OPEN PORTS AND ALL PORTS ARE TO BE PROVIDED WITH PRINTED LABEL HOLDERS. OPEN PORTS ARE TO BE PROVIDED WITH FILLER PLATES. PATCH PANELS ARE TO BE SIEMON "MAX" PATCH PANELS OR APPROVED EQUAL.
    b. WIRE MANAGEMENT: PROVIDE FRONT AND REAR 1U WIRE MANAGEMENT BAR FOR EACH PATCH PANEL PROVIDED. PROVIDE ONE ADDITIONAL PAIR OF WIRE MANAGEMENT BARS TO ALLOW AN ABOVE AND BELOW INSTALLATION OF WIRE MANAGEMENT. PRODUCT TO BE SIEMON "WM-143" SERIES OR APPROVED EQUAL.
11. FACEPLATES: FOR WORK AREA OUTLETS, PROVIDE MODULAR FACEPLATES THAT ALLOW INSTALLATION OF AND ARE FULLY COMPATIBLE WITH THE MODULAR CONNECTORS SPECIFIED ABOVE. PROVIDE PLATES OF THE SAME MATERIAL AS DUPLEX OR SWITCH PLATES AND SAME COLOR. PROVIDE BLANK FILLER PLATE FOR ANY CUTOUTS THAT ARE NOT USED. PLATES ARE TO BE SIEMON "CT" FACEPLATES OR APPROVED EQUAL.
12. WIRELESS ACCESS POINTS: PROVIDE WIRELESS ACCESS POINTS AS SHOWN OR NOTED ON PLANS AND PER SPECIFICATIONS BELOW. AT LOCATIONS SHOWN PROVIDE DUAL PORT "BISCUIT" TYPE SURFACE MOUNT BOX, WITH TWO (2) CATEGORY 6 PORTS AND OUTLETS/JACKS. MOUNT BOX ABOVE CEILING ON STANDARD 4X4 JUNCTION BOX WITH FACEPLATE AS REQUIRED. LOCATE AND MOUNT BOX SO THAT THERE ARE NO OBSTRUCTIONS TO ACCESS FROM BELOW FOR ACCESS POINT INSTALLATION. SURFACE MOUNT BOX TO BE SIEMON "MX-SM" SERIES OR EQUAL.
13. TELE / COMM BACKBOARD: PROVIDE A MINIMUM 3/4" X 4' X 8' PLYWOOD TELECOM BACKBOARD (OR AS SHOWN ON PLANS FOR LARGER AREAS), SECURED TO WALL STRUCTURE WITH MINIMUM 300 POUND ANCHORS. PAINT BACKBOARD WITH FLAT GRAY OR BLACK FIRE-PROOFING / FLAME RETARDANT INTUMESCENT LATEX PAINT.
14. CABLE SUPPORTS:
    a. J-HOOK CABLE SUPPORTS: PROVIDE 4" OPEN TYPE CABLE HOOKS WITH CABLE RETAINER CLIPS FOR SUPPORT OF TELE/DATA CABLING, HOOKS ARE TO BE SPACED AT A MAXIMUM LATERAL DISTANCE OF 48 INCHES. HOOKS ARE TO BE PRE-GALVANIZED FINISH, WITH STATIC LOAD CAPACITY OF AT LEAST 30 POUNDS. WHERE PROTECTION SYSTEMS ARE ROUTED USING PLENUM CABLE EXPOSED, PROVIDE SEPARATE CABLE SUPPORTS AND INCLUDE COLOR CODE ID CLIPS (RED - FOR PROTECTION SYSTEMS). SUPPORT FROM WALL OR STRUCTURE PER MANUFACTURERS GUIDELINES AND INSTALLATION INSTRUCTIONS. PRODUCT IS EATON / B-LINE "CABLE HOOK / J-HOOK" SERIES OR APPROVED EQUAL.
15. GROUNDING: PROVIDE A TELECOM GROUND BAR, 1/4" X 2" X 15" COPPER GROUND BAR MEETING REQUIREMENTS OF TIA-607-C/D AND NEMA STANDARDS. PROVIDE WITH UNIVERSAL HOLE PATTER OF 5/16" AND 7/16" HOLES PRE-DRILLED, AND 3" INSULATED STANDOFF BRACKETS. PROVIDE AND ROUTE A MINIMUM #4 AWG COPPER GROUNDING CONDUCTOR FROM THE TELECOM GROUND BAR TO THE MAIN ELECTRICAL SERVICE ENTRANCE GROUND, AND BOND PER BICSI RECOMMENDATIONS. EXTEND A #10 GROUNDING CONDUCTOR FROM GROUND BAR TO THE GROUND LUG ON EACH RACK OR CABINET PROVIDED. PRODUCT IS THE NVENT / ERICO "TGBA-XX" SERIES OR APPROVED EQUAL
16. LABELING: ALL CABLING, CORDS, PORTS AND EQUIPMENT SHALL BE LABELED PER THE ANSI/TIA-606-D ADMINISTRATION STANDARDS FOR TELECOMMUNICATIONS INFRASTRUCTURE STANDARD. LABELS ARE TO BE PERMANENT TYPE AFFIXED FOR EASE VISIBILITY AND IDENTIFICATION AT EACH TERMINATION, AND IN EACH BOX OR CABINET. EACH JACK SHALL HAVE FACEPLATE LABELED WITH MANUFACTURER PROVIDED PRINTED TEMPLATE. ALL DROPS IN A COMMON SPACE SHALL BE LABELED SEQUENTIALLY WITH ROOM AND CABLE IDENTIFIER. LABELS SHALL BE CONSISTENT BETWEEN RACK AND WORK AREA OUTLETS, AND ALL LABELS SHALL BE CLEARLY RECORDED AND MARKED ON THE WIRE MAP SUBMITTED. TAPE TYPE LABELS AND HANDWRITTEN LABELS ARE NOT ACCEPTABLE.
17. MANUFACTURERS: ENHANCED CATEGORY 6 (6E) CABLING AND CONNECTORS FOR HORIZONTAL STATION OUTLET SERVICE ARE TO BE PROVIDED, TESTED AND WARRANTED AS A COMBINED END TO END SYSTEM. PROVIDE ALL CABLE AND CONNECTORS BY ONE COMMON MANUFACTURER. SPECIFIED PRODUCTS ARE BY BASIS OF DESIGN MANUFACTURER "SIEMON" FOR ENHANCED CATEGORY 6 (6E) CABLE AND FOR CORRESPONDING CATEGORY 6 CONNECTORS, OTHER APPROVED MANUFACTURERS OF CABLE / CONNECTORS FOR A FULL END TO END SOLUTIONS ARE:
    a. SIEMON "PREMIUM 6 UTP" SERIES - BASIS OF DESIGN
    b. HUBBELL "NEXTSPEED 6E"
    c. COMMSCOPE SYSTIMAX "GIGASPEED XL-2071E"
    d. PANDUIT "TX6000"
    e. BERKTEK "LANMARK-2000" / LEVITON CONNECTORS
    f. BELDEN "3600"
    g. MOHAWK "ADVANCENET" / BELDEN CONNECTORS
    h. OR APPROVED EQUAL

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ELECTRICAL SPECIFICATIONS

Retrofit & Renovations for Madison Methodist Church
Phase 2: Activity Barn

1091 Confederate Highway Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	TW
CHECKED BY:	JM
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.01.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	03.10.26

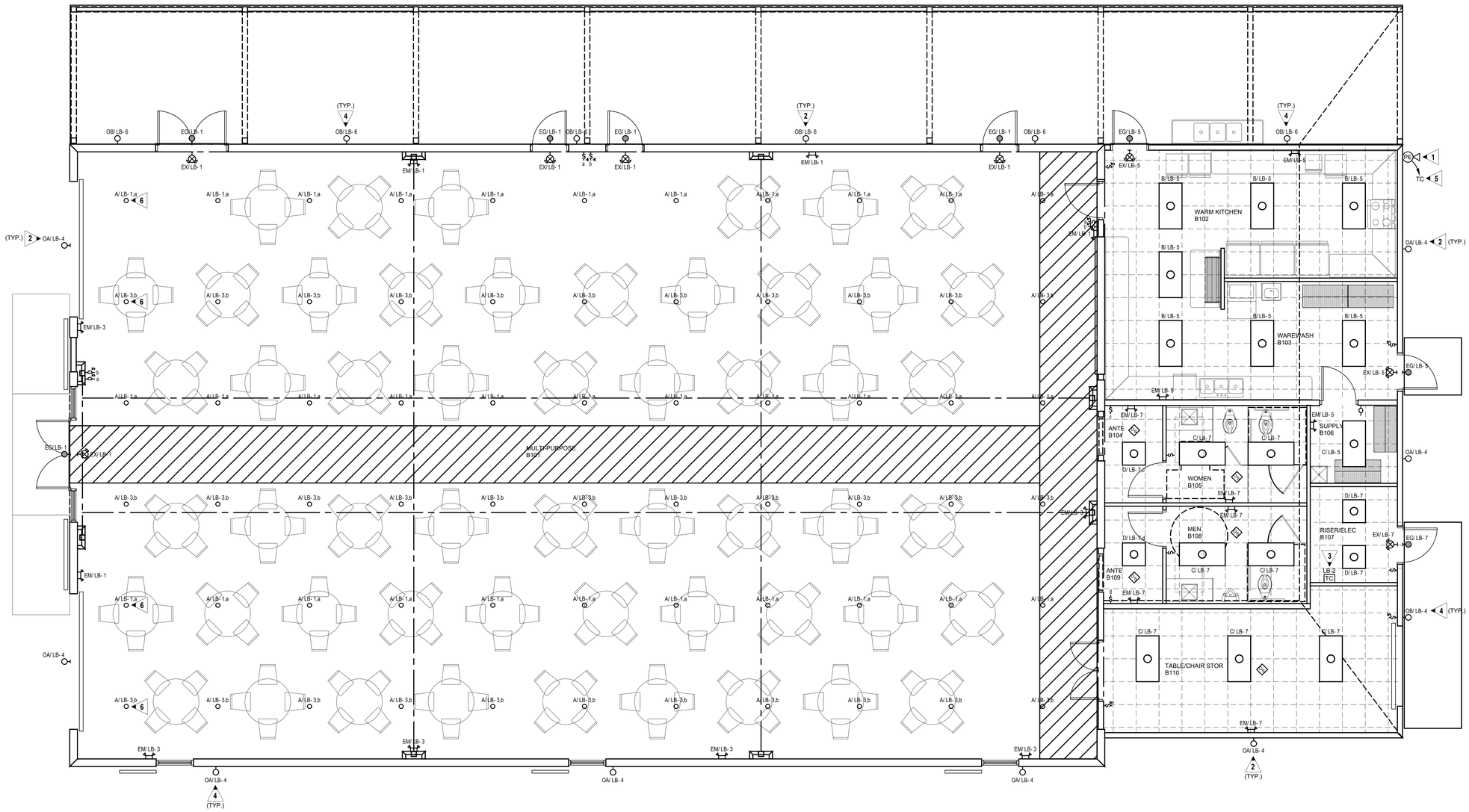
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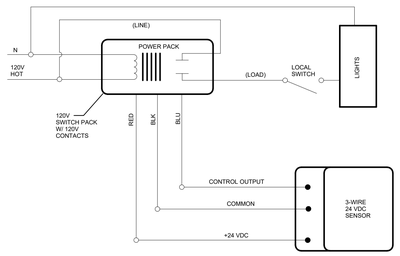
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1 FLOOR PLAN - LIGHTING
E2.1 SCALE: 1/4" = 1'-0"



(SEE MANUFACTURERS RECOMMENDATION FOR SCHEMATIC WHERE MULTIPLE SENSORS OCCUR IN SAME SPACE.)

2 WIRING DIAGRAM-SENSOR CONTROL-LIGHTING
E2.1 NO SCALE

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HA1-1.b

- PANEL DESIGNATION: B/
- FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN: HA1
- CIRCUIT NUMBER: -1.
- SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPARE/AREA: b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

GENERAL NOTES:

A. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.

B. ALL AREA'S OF THIS PLAN REQUIRE OCCUPANCY SENSOR COVERAGE (EXCEPT FOR MECHANICAL, ELECTRICAL ROOMS, AND THE KITCHEN). SEE LIGHTING SENSOR LEGEND E1.1 (TYPICAL).

C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.

D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.

E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8 IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.

F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS.

KEYED NOTES:

1. LOCATE P.E. CELL FACING NORTH, CLEAR OF MAN MADE LIGHT SOURCES. J-BOX TO HOUSE P.E. CELL SHALL BE RECESSED MOUNTED WITH STAINLESS STEEL COVER.
2. ROUTE VIA 4 POLE EXTERIOR LIGHTING CONTACTOR/TIME CLOCK LOCATED ADJACENT PANEL. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIME CLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS, SEE KEYED NOTE 3. USE #10'S ENTIRE CIRCUIT, PROVIDE MANUAL OVERRIDE SWITCH ADJACENT TIME CLOCK.
3. PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIME CLOCK WITH MINIMUM 4 CONTACTS AND MINIMUM 96 ON/OFF EVENTS PER WEEK. CONTACTS RATED FOR MINIMUM 30 AMPS AND 120 VOLTS. PROVIDE WITH NEMA TYPE 1 ENCLOSURE AND CAPACITOR BACKUP. PROVIDE WITH AUTO-ON-OFF FUNCTION. PROVIDE AUXILIARY INPUT FROM PHOTO CELL FOR OVERRIDE ON OR OFF CONTROL.
4. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
5. ROUTE 5#12, 1/2 IN. C. TO LIGHTING CONTROL TIME CLOCK FOR AUXILIARY SWITCH CONTROL INPUT.
6. ADJUST LOCATION OF LIGHT FIXTURE AS REQUIRED FOR UNIMPEDED OPERATION OF OVERHEAD DOOR.

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FLOOR PLAN - LIGHTING

Retrofit & Renovations for Madison Methodist Church Phase 2: Activity Barn

1091 Confederate Highway
Madison, Georgia 30650

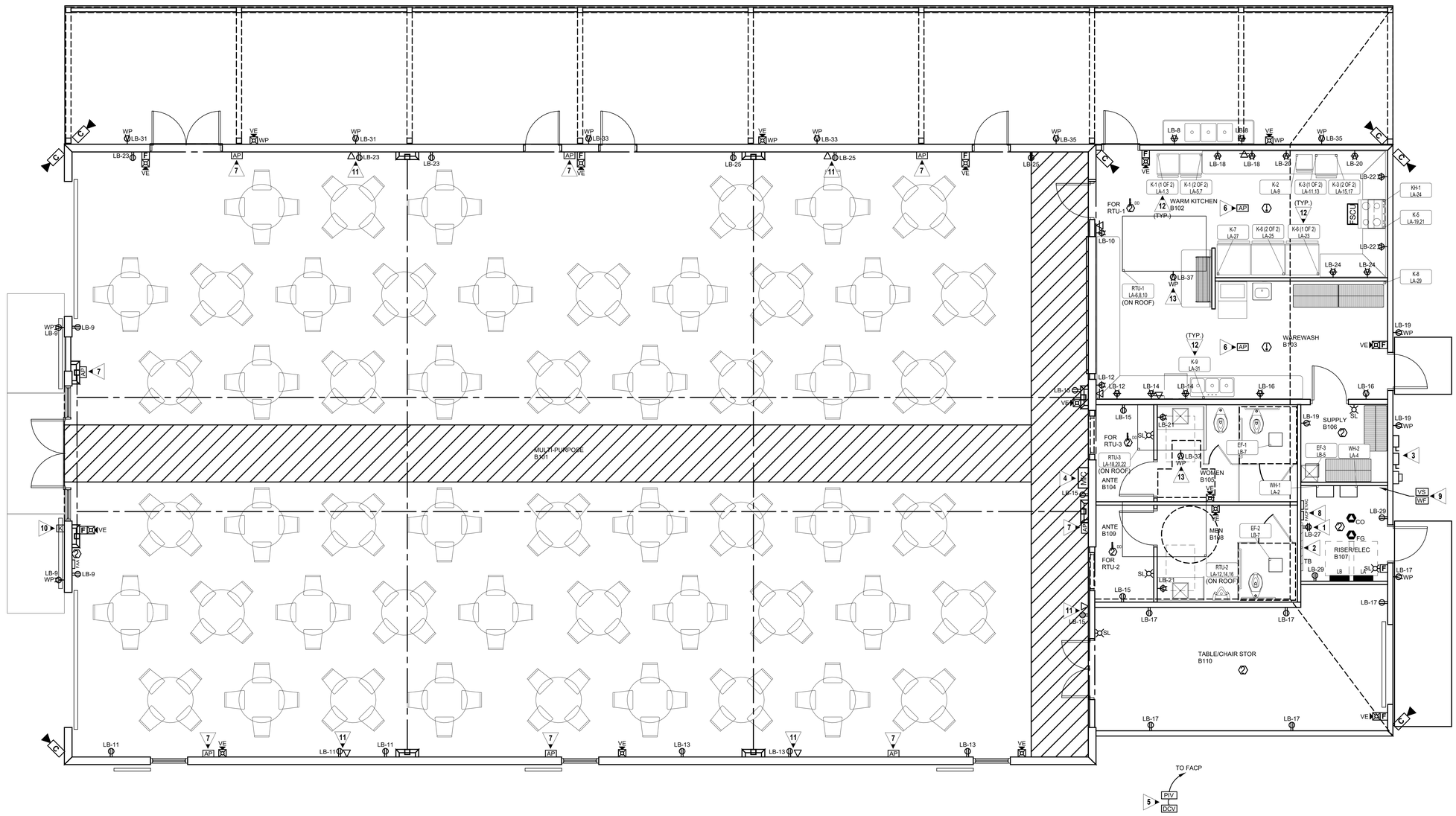
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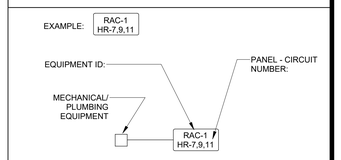
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1 E3.1 FLOOR PLAN - POWER & SYSTEMS
SCALE: 1/4" = 1'-0"

MECHANICAL EQUIPMENT TAG DESCRIPTION



NOTE: REFER TO MECHANICAL/PLUMBING EQUIPMENT POWER SCHEDULE FOR CIRCUITING INFORMATION.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

KITCHEN CONNECTION SCHEDULE

ID	EQUIPMENT	EQUIPMENT INFORMATION VOLT	PH	MCA	MOCP	CIRCUIT INFORMATION PANEL	NO.	APPARENT LOAD	CONDUIT & WIRE SIZE	DISC TYPE	NOTES
KITCHEN EQUIP											
K-1 (1 OF 2)	WARM OVEN	208 V	1	31.3 A	35.0 A	LA	1,3	5200 VA	1*C,3#8,1#10G	CORD & PLUG	1,2
K-1 (2 OF 2)	WARM OVEN	208 V	1	31.3 A	35.0 A	LA	5,7	5200 VA	1*C,3#8,1#10G	CORD & PLUG	1,2
K-2	MICROWAVE	120 V	1	15.3 A	20.0 A	LA	9	1460 VA	1/2"C,2#12,1#12G	CORD & PLUG	1,2
K-3 (1 OF 2)	DBL OVEN	208 V	1	54.7 A	60.0 A	LA	11,13	9000 VA	1*C,3#6,1#8G	CORD & PLUG	1,2
K-3 (2 OF 2)	DBL OVEN	208 V	1	54.7 A	60.0 A	LA	15,17	9000 VA	1*C,3#6,1#8G	CORD & PLUG	1,2
K-5	RANGE	208 V	1	62.5 A	70.0 A	LA	19,21	10400 VA	1 1/4*C,3#4,1#8G	CORD & PLUG	1,2
K-6 (1 OF 2)	REFRIGERATOR	120 V	1	10.0 A	20.0 A	LA	23	960 VA	1/2"C,2#12,1#12G	CORD & PLUG	1,2
K-6 (2 OF 2)	REFRIGERATOR	120 V	1	10.0 A	20.0 A	LA	25	960 VA	1/2"C,2#12,1#12G	CORD & PLUG	1,2
K-7	FREEZER	120 V	1	8.1 A	20.0 A	LA	27	780 VA	1/2"C,2#12,1#12G	CORD & PLUG	1,2
K-8	ICE MAKER	120 V	1	6.4 A	20.0 A	LA	29	612 VA	1/2"C,2#12,1#12G	CORD & PLUG	1,2
K-9	DISHWASHER	120 V	1	9.3 A	20.0 A	LA	31	890 VA	1/2"C,2#12,1#12G	CORD & PLUG	1,2

KITCHEN SCHEDULE NOTES:

1. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
2. PROVIDE GFCI BREAKER.

GENERAL NOTES:

1. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.
2. VERIFY MOUNTING HEIGHTS OF ALL ELECTRICAL OUTLETS WITH ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS PRIOR TO ROUGH-IN.
3. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
4. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
5. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE OUTLET BOXES AND CONDUIT TO ABOVE CEILINGS FOR ALL THERMOSTATS.
6. FIRE SEAL ALL FIREWALL PENETRATIONS.

GENERAL KITCHEN NOTES:

A. ALL EXPOSED OUTLETS IN KITCHEN SHALL BE CAST METAL AND WATER PROOF.

B. ALL FLEXIBLE CONDUIT SHALL BE WATERPROOF.

C. WHERE KITCHEN EQUIPMENT SHOP DRAWINGS CALL FOR DIRECT CONNECTION AND A RECEPTACLE IS SHOWN ON THE DRAWINGS, PROVIDE RECEPTACLE, PLUG, AND CORDSET.

D. BEFORE ROUGHING IN ANY OUTLETS OR ORDERING ANY RECEPTACLES, PLUGS, CORDSETS, DISCONNECTS, OR ANY ITEMS NECESSARY FOR THE CONNECTION OF KITCHEN EQUIPMENT, THE CONTRACTOR SHALL CONSULT THE SHOP DRAWINGS FOR THE EQUIPMENT ACTUALLY BEING FURNISHED (UNDER THE CONTRACT OR BY THE OWNER) FOR THE PROJECT AND SHALL PROVIDE AND INSTALL DEVICES. CIRCUITS AND ANY OTHER APPURTENANCES COMPATIBLE WITH THE EQUIPMENT FURNISHED SHALL BE PROVIDED AT NO COST TO THE OWNER.

E. ALL EXPOSED CONDUIT SHALL BE RIGID STEEL.

F. ALL 20A RECEPTACLES IN KITCHEN SHALL BE GFCI TYPE.

G. COORDINATE CORD AND PLUG REQUIREMENTS FOR KITCHEN EQUIPMENT WITH EQUIPMENT PROVIDER.

KEYED NOTES:

1. OUTLET FOR OWNER PROVIDED IT EQUIPMENT. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
2. REFER TO TELEPHONE/DATA RISER, 5/E4.1.
3. POWER COMPANY METER AND SERVICE DISCONNECTS, SEE POWER RISER DIAGRAM 1/E4.1.
4. COORDINATE EXACT LOCATION OF REMOTE EVACUATION MICROPHONE WITH OWNER AND AHJ PRIOR TO ROUGH-IN.
5. PROVIDE MONITORING OF DOUBLE CHECK VALVE AND POST INDICATOR VALVE FOR FIRE SPRINKLER SYSTEM. FIELD COORDINATE EXACT LOCATION.
6. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
7. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED HIGH ON WALL FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
8. LABEL CIRCUIT BREAKER SERVING FIRE ALARM CONTROL PANEL WITH RED NAME PLATE "FIRE ALARM CIRCUIT". LABEL FIRE ALARM CONTROL PANEL WITH CIRCUIT NUMBER SERVING PANEL. PROVIDE HASP LOCK FOR CIRCUIT BREAKER.
9. PROVIDE FIRE ALARM SYSTEM MONITORING MODULES AT ALL FIRE SPRINKLER FLOW AND TAMPER SWITCHES AT FIRE RISER. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH FIRE PROTECTION DRAWINGS. PROVIDE MONITORING MODULES AS REQUIRED.
10. KNOX REMOTE POWER BOX. COORDINATE FINAL LOCATION WITH OWNER, ARCHITECT, AND AHJ. COORDINATE MOUNTING WITH ARCHITECT.
11. PROVIDE DUPLEX RECEPTACLE AND DATA OUTLET MOUNTED HIGH ON WALL FOR TV. COORDINATE EXACT LOCATION OF TV WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
12. REFER TO KITCHEN CONNECTION SCHEDULE FOR EQUIPMENT AND CIRCUIT REQUIREMENTS FOR "K-#" EQUIPMENT.
13. PROVIDE WEATHERPROOF GFI OUTLET IN METAL BOX AND FUSED DISCONNECT MOUNTED HARD TO UNIT, CLEAR OF ALL ACCESS PANELS. ROUTE FEEDERS INSIDE CURB PROVIDED FOR UNIT (NOT THRU DRIP PAN). PROVIDE 2#10, #10G., 3/4 IN. C. FOR RECEPTACLE CIRCUIT. SEE MECHANICAL CONNECTION SCHEDULE FOR DISCONNECT REQUIREMENTS. REFER TO DETAIL - ROOF TOP UNIT MOUNTED DISCONNECT, 8/E4.1.

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MACON OFFICE - PROJECT #: 26023
edc1973.com

FLOOR PLAN - POWER & SYSTEMS

Retrofit & Renovations for Madison Methodist Church Phase 2: Activity Barn

Madison, Georgia 30650

1091 Confederate Highway

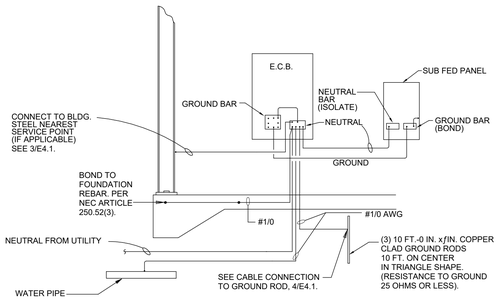
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CHECKED BY:	JM
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DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.01.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	03.10.26

REVISIONS:

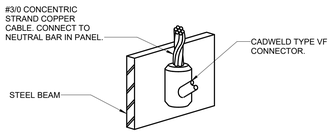
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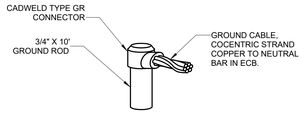
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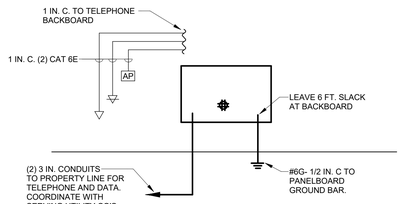
2 / E4.1 DETAIL - SERVICE GROUNDING
NO SCALE



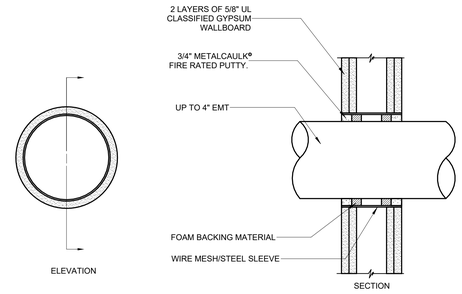
3 / E4.1 DETAIL - CABLE CONNECTION TO STEEL BEAM
NO SCALE



4 / E4.1 DETAIL - CABLE CONNECTION TO GROUND ROD
NO SCALE

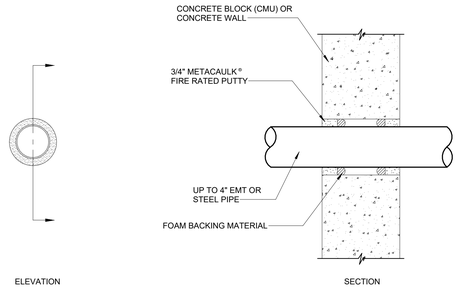


5 / E4.1 DATA/TELEPHONE RISER
NO SCALE



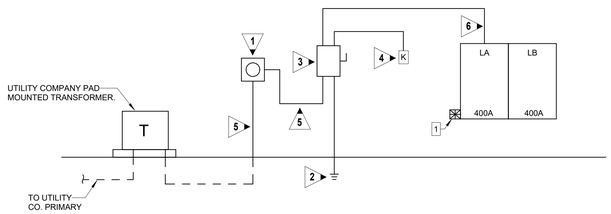
NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

6 / E4.1 DETAIL - GYPSUM WALLBOARD PENETRATION
NO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

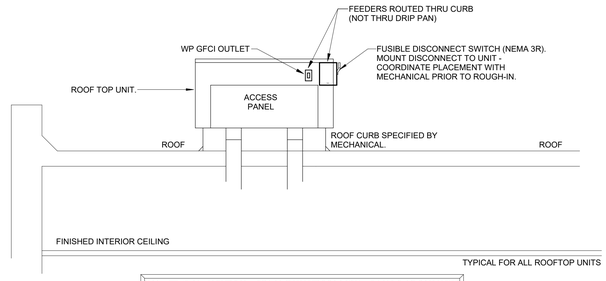
7 / E4.1 DETAIL - CONCRETE WALL PENETRATION
NO SCALE



1 / E4.1 POWER RISER DIAGRAM
NO SCALE

TVSS

1 MAIN SERVICE PANEL. PROVIDE 4#6 CONDUCTORS IN 1 IN. C. FROM 60A/3P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER, U.L. 1449 LISTED, 200,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.



NOTE: ELECTRICAL CONTRACTOR SHALL COORDINATE PRIOR TO ROUGH-IN OF MECHANICAL UNIT THE EXACT ELECTRICAL SERVICE CONNECTION POINT WITH MECHANICAL CONTRACTOR AND EQUIPMENT ROUGH-IN SHOW DRAWINGS.

8 / E4.1 DETAIL - ROOF TOP UNIT MOUNTED DISCONNECT
NO SCALE

MECHANICAL CONNECTION SCHEDULE

	EQUIPMENT INFORMATION				CIRCUIT INFORMATION				DISC	
ID	VOLT	PH	MCA	MOCP	PANEL	NO.	APPARENT LOAD	CONDUIT & WIRE SIZE	TYPE	NOTES
EXHAUST FAN										
EF-1	120 V	1	0.3 A	20.0 A	LB	7	24 VA	1/2"C,2#12,1#12G	MRS	1,3
EF-2	120 V	1	0.3 A	20.0 A	LB	7	24 VA	1/2"C,2#12,1#12G	MRS	1,3
EF-3	120 V	1	0.4 A	20.0 A	LB	5	40 VA	1/2"C,2#12,1#12G	MRS	1,4
HOOD										
KH-1	120 V	1	5.0 A	20.0 A	LA	24	500 VA	1/2"C,2#12,1#12G	MRS	1
ROOF TOP UNITS										
RTU-1	208 V	3	52.0 A	60.0 A	LA	6,8,10	14976 VA	1"C,4#6,1#8G	60A/3P NEMA 3R	1,2
RTU-2	208 V	3	52.0 A	60.0 A	LA	12,14,16	14976 VA	1"C,4#6,1#8G	60A/3P NEMA 3R	1,2
RTU-3	208 V	3	28.0 A	40.0 A	LA	18,20,22	8064 VA	1"C,4#8,1#10G	60A/3P NEMA 3R	1,2
WATER HEATER										
WH-1	120 V	1	20.0 A	20.0 A	LA	2	1500 VA	1/2"C,2#12,1#12G	MRS	
WH-2	120 V	1	20.0 A	20.0 A	LA	4	1500 VA	1/2"C,2#12,1#12G	MRS	

MECHANICAL/PLUMBING SCHEDULE NOTES:

1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
2. DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT PROVIDED BY MANUFACTURER. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON SENSING SMOKE.
3. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. PROVIDE 15 MINUTE TIME DELAY RELAY. PROVIDE UNSWITCHED HOT AT FAN.
4. POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED. FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM IT SERVES.

KEYED NOTES:

1 ▶ 400 AMP FEED-THROUGH METER BASE SUPPLIED BY POWER COMPANY AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR TO PAY ALL COSTS FOR METER BASE AND SERVICE SHOWN.

2 ▶ SEE SERVICE GROUNDING DETAIL, 2/E4.1.

3 ▶ 120/208V, 3PH, 400A/3P/3R S.E. RATED ENCLOSED SHUNT TRIP TYPE CIRCUIT BREAKER. 27.0 KAIC MINIMUM. PROVIDE LABEL "SERVICE DISCONNECT".

4 ▶ SURFACE MOUNTED NEMA 3R KNOX REMOTE POWER BOX PRODUCT NUM. "MKT-KBSPEC-0169". CONNECT TO 3 PHASE ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP TO REMOTELY DISCONNECT POWER. COORDINATE FINAL LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION.

5 ▶ 4#600MCM, 4 IN. C.

6 ▶ 4#600MCM, #1/0G., 4 IN. C.

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ELECTRICAL DETAILS

Retrofit & Renovations for Madison Methodist Church Phase 2: Activity Barn

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	TW
CHECKED BY:	JM
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.01.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	03.10.26

REVISIONS:

1	DATE
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PANELBOARD: LA

LOCATION: RISER/ELEC B107 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA1 **A.I.C. RATING:** 27,000 AMPS SYMMETRICAL
MAIN DEVICE: 400.0 A MLO **SPECIAL:**
BUS AMPS: 400 AMPS **FED FROM:** UTILITY

LOAD NAME	NOTE	BKR	P	CKT	A		B		C		CKT	P	BKR	NOTE	LOAD NAME
K-1 WARM OVEN	1	35 A	2	1	2.6	1.5					2	1	20 A		WH-1
				3			2.6	1.5			4	1	20 A		WH-2
K-1 WARM OVEN	1	35 A	2	5					2.6	5.0	6				
				7	2.6	5.0					8	3	60 A		RTU-1
K-2 MICROWAVE	1	20 A	1	9			1.5	5.0			10				
K-3 DBL OVEN	1	60 A	2	11					4.5	5.0	12				
				13	4.5	5.0					14	3	60 A		RTU-2
K-3 DBL OVEN	1	60 A	2	15			4.5	5.0			16				
				17					4.5	2.7	18				
K-5 RANGE	1	70 A	2	19	5.2	2.7					20	3	40 A		RTU-3
				21			5.2	2.7			22				
K-6 FRIDGE	1	20 A	1	23					1.0	0.5	24	1	20 A		KH-1
K-6 FRIDGE	1	20 A	1	25	1.0	0.0					26	1	20 A		SPARE
K-7 FREEZER	1	20 A	1	27			0.8	0.0			28	1	20 A		SPARE
K-8 ICE MAKER	1	20 A	1	29					0.6	0.0	30	1	20 A		SPARE
K-9 DISHWASHER	1	20 A	1	31	0.9	0.0					32	1	20 A		SPARE
SPARE	1	20 A	1	33			0.0	--			34	1	--		SPACE
SPARE	1	20 A	1	35					0.0	--	36	1	--		SPACE
TVSS		60 A	3	37	0.0	--					38	1	--		SPACE
				39			0.0	--			40	1	--		SPACE
				41					0.0	--	42	1	--		SPACE
		TOTAL LOAD:			36 kVA		33 kVA		30 kVA						
		TOTAL AMPS:			304 A		278.2 A		252 A						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	38516 VA	100.00%	38516 VA		
Other	500 VA	100.00%	500 VA	**CONNECTED LOAD:**	99227 VA
RECEPTACLES	11120 VA	94.96%	10560 VA	**ESTIMATED DEMAND:**	84249 VA
FIRE ALARM	600 VA	100.00%	600 VA	**CONNECTED CURRENT:**	275.4 A
MTR	88 VA	111.36%	98 VA	**EST. DEMAND CURRENT:**	233.9 A
KTCH	44462 VA	65.00%	28900 VA		
HEAT	3000 VA	100.00%	3000 VA		
LITES	3319 VA	125.00%	4149 VA		

NOTES: SECTION 1 OF 2, PROVIDE FEED THRU LUGS
1. PROVIDE GFCI BREAKER

PANELBOARD: LB

LOCATION: RISER/ELEC B107 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA1 **A.I.C. RATING:** 27,000 AMPS SYMMETRICAL
MAIN DEVICE: 400.0 A MLO **SPECIAL:**
BUS AMPS: 400 AMPS **FED FROM:** LA

LOAD NAME	NOTE	BKR	P	CKT	A		B		C		CKT	P	BKR	NOTE	LOAD NAME
LITES		20 A	1	1	0.9	0.5					2	1	20 A		TIMECLOCK
LITES		20 A	1	3			0.9	0.4			4	1	20 A		WALL PACKS
LITES		20 A	1	5					0.5	0.2	6	1	20 A		PATIO LITES
LITES		20 A	1	7	0.6	0.4					8	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	9			0.7	0.2			10	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	11					0.5	0.4	12	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	13	0.5	0.4					14	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	15			0.9	0.4			16	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	17					1.1	0.4	18	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	19	0.5	0.4					20	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	21			0.4	0.4			22	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	23					0.5	0.4	24	1	20 A		RECEPTACLES
RECEPTACLES		20 A	1	25	0.5	0.6					26	1	20 A	2	FACP
RECEPTACLES		20 A	1	27			0.5	0.0			28	1	20 A		SPARE
RECEPTACLES		20 A	1	29					0.4	0.0	30	1	20 A		SPARE
RECEPTACLES		20 A	1	31	0.4	0.0					32	1	20 A		SPARE
RECEPTACLES		20 A	1	33			0.4	0.0			34	1	20 A		SPARE
RECEPTACLES		20 A	1	35					0.4	--	36	1	--		SPACE
ROOF RECEPTACLES		20 A	1	37	0.4	--					38	1	--		SPACE
SPARE		20 A	1	39			0.0	--			40	1	--		SPACE
SPARE		20 A	1	41					0.0	--	42	1	--		SPACE
		TOTAL LOAD:			6 kVA		5 kVA		5 kVA						
		TOTAL AMPS:			50 A		42.1 A		38 A						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
Other	500 VA	100.00%	500 VA		
RECEPTACLES	11120 VA	94.96%	10560 VA	**CONNECTED LOAD:**	15549 VA
FIRE ALARM	600 VA	100.00%	600 VA	**ESTIMATED DEMAND:**	15816 VA
MTR	88 VA	111.36%	98 VA	**CONNECTED CURRENT:**	43.2 A
LITES	3319 VA	125.00%	4149 VA	**EST. DEMAND CURRENT:**	43.9 A

NOTES: SECTION 2 OF 2
2. LABEL CIRCUIT PER NEC 2023 FOR FIRE ALARM CONTROL. PROVIDE HASP LOCK FOR BREAKER.

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Madison Methodist Phase 2: Party Barn
Project Type: Alteration

Construction Site:
1091 Confederate Highway
Madison, GA 30650

Owner/Agent:

Designer/Contractor:
Electrical Design Consultants
175 New Street
Suite 1
Macon, GA 31210

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Convention Center	6095	1.01	6156
		Total Allowed Watts =	6156

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Convention Center (6095 sq.ft.)				
A: A: 6 IN. COMMERCIAL CYLINDER: LED Other Fixture Unit 28W:	1	66	29	1914
B: B: 2 FT. X 4 FT. GASKETED TROFFER: LED Panel 54W:	1	7	49	343
C: C: 2 FT. X 4 FT. TROFFER: LED Panel 54W:	1	8	50	400
D: D: 2 FT. X 2 FT. TROFFER: LED Panel 33W:	1	4	34	136
		Total Proposed Watts =		2793

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Insection Checklist.

Jeffrey H. McGee, PE — Name - Title
Signature
03/10/26 — Date

Project Title: Madison Methodist Phase 2: Party Barn Report date: 03/10/26
Data filename: Z:\2026 CAD\M26023 Madison Methodist Phase 2\WORKING DRAWINGS\ELEC\LIGHTING\Madiso Methodist Phase 2 COMcheck.cck

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Madison Methodist Phase 2: Party Barn
Project Type: Alteration
Exterior Lighting Zone 2 (Residential mixed use area (LZ2))

Construction Site:
1091 Confederate Highway
Madison, GA 30650

Owner/Agent:

Designer/Contractor:
Electrical Design Consultants
175 New Street
Suite 1
Macon, GA 31210

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Exterior Perimeter (Walkway < 10 feet wide)	340 ft of	0.7	Yes	238
		Total Tradable Watts (a) =		238
		Total Allowed Watts =		238
		Total Allowed Supplemental Watts (b) =		600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Exterior Perimeter (Walkway < 10 feet wide 340 ft of walkway length): Tradable Wattage				
OA: OA: ARCHITECTURAL WALL PACK: LED Other Fixture Unit 46W:	1	8	47	376
OB: OB: ARCHITECTURAL WALL PACK: LED Other Fixture Unit 36W:	1	7	32	224
		Total Tradable Proposed Watts =		600

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Insection Checklist.

Jeffrey H. McGee, PE — Name - Title
Signature
03/10/26 — Date

Project Title: Madison Methodist Phase 2: Party Barn Report date: 03/10/26
Data filename: Z:\2026 CAD\M26023 Madison Methodist Phase 2\WORKING DRAWINGS\ELEC\LIGHTING\Madiso Methodist Phase 2 COMcheck.cck

BRAVO BLDG SET 08-31-2026

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ARCHITECT

CONSULTANT

GEORGIA — CERTIFICATE OF AUTHORIZATION — PROFESSIONAL ENGINEER — JEFFREY H. McGEE

EDC
ELECTRICAL DESIGN CONSULTANTS
ELECTRICAL ENGINEERS
MACON OFFICE - PROJECT #: 26023
edc1973.com

ELECTRICAL SCHEDULES

Retrofit & Renovations for Madison Methodist Church Phase 2: Activity Barn

1091 Confederate Highway
Madison, Georgia 30650

JOB NO.:	02601
DRAWN BY:	TW
CHECKED BY:	JM
DESCRIPTION:	SCH-REVIEW-P2
DATE:	12.15.25
DESCRIPTION:	DD-REVIEW
DATE:	00.00.26
DESCRIPTION:	CD-REVIEW
DATE:	03.01.26
DESCRIPTION:	BID-CONSTRUCTION
DATE:	03.10.26

REVISIONS:

1		DATE
2		00.00.26
3		
4		
5		
6		
7		

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