

New Facility

Newton Co. Senior Services Enrichment Center

Richard Chapel Road

Covington, Georgia

GENERAL NOTES:

1. DRAWING DIMENSIONS GOVERN OVER SCALE. DIMENSIONS ARE TAKEN FROM FACE OF NEW MASONRY, CONCRETE, STUD AND FACE OF EXISTING FINISHES. VERIFY ALL ROUGH OPENING DIMENSIONS FOR DOORS, WINDOWS, LOUVERS, MECHANICAL REQUIREMENTS AND OTHER MISCELLANEOUS OPENINGS BEFORE INSTALLATION OF CONCRETE, MASONRY OR FRAMING.

2. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE BEFORE COMMENCING ANY PORTION OF THE WORK. THE CONTRACTOR SHALL COMPARE ACTUAL CONDITIONS WITH DRAWINGS TO ASCERTAIN CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL CHECK AND CONFIRM LOCATION OF EXISTING STRUCTURES, EQUIPMENT, UTILITIES, AND SITE CONDITIONS FULL ACCEPTANCE OF EXISTING CONDITIONS. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK.

3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING CODES AND ALL OTHER APPLICABLE LOCAL CODES, ORDINANCES, SUBDIVISION REGULATIONS AND COVENANTS, AND REQUIREMENTS:

- 2018 INTERNATIONAL BUILDING CODE, WITH 2020, 2022, 2024 GEORGIA STATE AMENDMENTS
- 2018 INTERNATIONAL MECHANICAL CODE WITH 2020, 2024 GEORGIA STATE AMENDMENTS
- 2020 NFPA 70 NATIONAL ELECTRICAL CODE WITH 2021 GEORGIA STATE AMENDMENTS
- 2018 INTERNATIONAL PLUMBING CODE WITH 2020, 2022, 2023, 2024 GEORGIA STATE AMENDMENTS
- 2018 INTERNATIONAL FUEL GAS CODE WITH 2020, 2022 GEORGIA STATE AMENDMENTS
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH 2020, 2022, 2023 GEORGIA STATE SUPPLEMENTS AND AMENDMENTS
- 2018 NFPA 101 LIFE SAFETY CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 12-3-3-.04 (72)
- 2018 INTERNATIONAL FIRE CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04
- 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
- 2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINQUISHERS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS
- 2019 NFPA 13 FIRE SPRINKLER SYSTEMS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS

4. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.

PROJECT DESIGN TEAM:

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NEWTON COUNTY BOARD OF COMMISSIONERS

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COVER SHEET

New Facility
Newton County Enrichment Center
Covington, Georgia
Richard Chapel Road

JOB NO.:	2309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE

REVISIONS:

1	04.22.24
2	08.23.24
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OF 5

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
ACC	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
ACR	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			MWK	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 EXTINGUSHER	NAT	NATURAL		
		FEC	FIRE EXTINGUSHER & 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	CALK (ING), CAULK (ING)	FND	FOUNDATION	OD	OUTSIDE DIAMETER	THR	THRESHOLD
CLG	CEILING	FR	FRAME (D), (ING)	OA	OVERALL	TA	TOILET ACCESSORY
CEM	CEMENT	FS	FULL SIZE	OH	OVERHEAD	TPTN	TOILET PARTITION
CTR	CENTER	FBO	FURNISHED BY OTHERS			TTD	TOILET TISSUE
CER	CERAMIC	FUR	FURRED (ING)				DISPENSER
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	TSTL	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	COUNTERPLASTING	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	PTWD	PRESSURE TREATED WOOD		
CS	COUNTERSUNK			PFN	PREFINISHED		
CRS	COURSE (S)	HD	HEAVY DUTY	PRFM	PREFORMED	WSCT	WAINSCOT
CF	CUBIC FOOT	HT	HEIGHT	PRL	PROPERTY LINE	WTW	WALL TO WALL
CY	CUBIC YARD	HC	HOLLOW CORE			WH	WALL HUNG
		HM	HOLLOW METAL			WC	WATER CLOSET
		HK	HOOK (S)			WP	WATERPROOFING
		HORZ	HORIZONTAL			WR	WATER REPELLENT
DPR	DAMPER	HB	HOSE BIBB	QT	QUARRY TILE	WS	WATERSTOP
DP	DAMPPROOFING	HWH	HOT WATER HEATER			WT	WEIGHT
DL	DEAD LOAD					WWF	WELDED WIRE FABRIC
DKG	DECKING			RAD	RADIUS	W	WIDTH, WIDE, WEST
DEMO	DEMOLISH, DEMOLITION			RWL	RAINWATER LEADER	WDW	WINDOW
DMT	DEMOUNT(ABLE)	INCL	INCLUDE (D) (ING)	REF	REFERENCE	WG	WIRE GLASS
DGA	DENSE GRADE AGGREGATE	ID	INSIDE DIAMETER	RFL	REFLECT (ED)(IVE)(0R)	W/	WITH
		INSUL	INSULATE (D) (ION)	REFR	REFRIGERATOR	W/O	WITHOUT
DEP	DEPRESSED	INT	INTERIOR	REG	REGISTER	WD	WOOD
DET	DETAIL	INV	INVERT	REINF	REINFORCE (D) (ING)	WB	WOOD BASE
DIAG	DIAGONAL			RCP	REINFORCED CONCRETE PIPE	WI	WROUGHT IRON
DIA	DIAMETER						
DIM	DIMENSION	JAN	JANITOR				
DIV	DIVIDE/DIVISION	JT	JOINT				
DR	DOOR	JST	JOIST				

PLAN AND SECTION INDICATIONS

EARTH

ROCK

STONE/ AGGREGATE FILL

EARTHWORKS

CONCRETE

CONCRETE (LIGHT WEIGHT)

WELDED WIRE FABRIC (IN CONCRETE)

CONCRETE

CONCRETE MASONRY UNITS (CMU)

BRICK (COMMON OR FACE)

MASONRY

MARBLE/ GRANITE

LIMESTONE

STONE

STEEL

ALUMINUM

METAL

WOOD FRAMING

WOOD BLOCKING

FINISHED WOOD

PLYWOOD

WOOD

BATT/LOOSE FILL INSULATION

RIGID INSULATION

INSULATION

GLASS

GLASS

TERRAZZO

GYPSUM/ PLASTER

ACOUSTICAL TILE

CARPET

FINISHES

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

CHANNEL

PERPENDICULAR

PARALLEL

ANGLE

POUND OR NUMBER

PLATE

AT

CENTERLINE

HANDICAP FACILITIES

ROUND OR DIAMETER

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

EQ 3 — EQUIPMENT EQUIPMENT NUMBER

TA 5 — TOILET ACCESSORY ACCESSORY NUMBER

CB 12 — CHALKBOARD LENGTH

KE 3 — KITCHEN EQUIPMENT EQUIPMENT NUMBER

TB 12 — TACKBOARD LENGTH

FS 3 — FOOD SERVICE EQUIPMENT EQUIPMENT 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

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

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E5.3	LIGHTING COMCHECK REPORTS
E6.1	ELECTRICAL DETAILS

GENERAL NOTES:

1. DRAWING DIMENSIONS GOVERN OVER SCALE. DIMENSIONS ARE TAKEN FROM FACE OF NEW MASONRY, CONCRETE, STUD AND FACE OF EXISTING FINISHES. VERIFY ALL ROUGH OPENING DIMENSIONS FOR DOORS, WINDOWS, LOUVERS, MECHANICAL REQUIREMENTS AND OTHER MISCELLANEOUS OPENINGS BEFORE INSTALLATION OF CONCRETE. MASONRY OR FRAMING.

2. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE BEFORE COMMENCING ANY PORTIONS OF THE WORK. TEH CONTRACTOR SHALL COMPARE ACTUAL CONDITIONS WITH DRAWINGS TO ASCERTAIN CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL CHECK AND CONFIRM LOCATIONS OF EXISTING STRUCTURES, EQUIPMENT, UTILITIES, AND SITE CONDITIONS WHICH MAY AFFECT THE WORK. COMMENCEMENT OF THE WORK SHALL CONSTITUTE FULL ACCEPTANCE OF EXISTING CONDITIONS. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF THE WORK.

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ABBREVIATIONS, SYMBOLS, SHEET INDEX

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SHEET
A02
OF 5

ALPHA BLDG SET 09-04-2024

CODE REVIEW:

OCCUPANCY TYPE(S): NFPA 101 LIFE SAFETY CODE 2018
NEW BUSINESS

CONSTRUCTION TYPE(S): IBC 2018 / NFPA 101 LIFE SAFETY CODE 2018
TYPE VB / V-000
COMBUSTIBLE / UNPROTECTED / SPRINKLERED

BUILDING LEVELS AND HEIGHTS:
STORIES ALLOWED / STORIES ACTUAL
BUILDING HEIGHT ALLOWED: 40'-0"
ACTUAL BUILDING HEIGHT: 27'-0" +/-
TOP OF HIGHEST WALL / ROOF: 27'-0" +/-

BUILDING AREA:
ALLOWABLE TABULAR AREA (IBC 2018 TABLE 506.2): 36,000 GSF
ACTUAL TABULAR AREA
FIRST FLOOR: 8,169 GSF ACTUAL

FRONTAGE INCREASE CALCULATIONS:
TABULATION NOT REQUIRED

AUTOMATIC SPRINKLER INSTALLATION INCREASE:
TABULATION NOT REQUIRED

OCCUPANCY LOAD: 2018 NFPA 101 LIFE SAFETY CODE WITH GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04 (72)

BUSINESS (B): 1270 NSF / 150 = 9 PERSONS
ASSEMBLY AREAS:
GAME ROOM : 415 NSF / 15 = 28 PERSONS
ACTIVITY ROOM 114 : 180 NSF / 15 = 12 PERSONS
DINING 121 : 716 NSF / 15 = 48 PERSONS
RECREATION 125 : 535 NSF / 15 = 36 PERSONS
ADULT CLASSROOM 128 : 253 NSF / 15 = 17 PERSONS
ACTIVITY ROOM 131 : 163 NSF / 15 = 11 PERSONS

KITCHEN 118 : 280 NSF / 100 = 3 PERSONS
WAREWASHING 119 : 96 NSF / 100 = 1 PERSON
PANTRY 117 : 86 NSF / 500 = 1 PERSON
ACCESSORY STORAGE 115: 114 NSF / 500 = 1 PERSON
ACCESSORY STORAGE 129 : 103 NSF / 500 = 1 PERSON

TOTAL OCCUPANT LOAD : 168 PERSONS

EGRESS WIDTH REQUIRED / PROVIDED:
0.2" / PERSON X 105 PERSONS = 21" REQUIRED / 294" PROVIDED

SEE CODE COMPLIANCE PLAN FOR EGRESS / EXITING

TRAVEL DISTANCES: NFPA 101 LIFE SAFETY 2018
NEW BUSINESS: 200' ALLOWED

PLUMBING FIXTURE CALCULATIONS IBC 2018
FIRST FLOOR OL: 168 PERSONS

WATER CLOSETS (1/25): 1/25 (50) / 1/50
MEN: 50/25 = 2 / 34/50 = 1 : 3 REQUIRED
2 WATER CLOSETS & 1 URINAL PROVIDED
WOMEN: 50/25 = 2 / 34/50 = 1 : 3 REQUIRED
3 WATER CLOSETS PROVIDED

LAVATORIES (1/40): 1/40 (80) / 1/80
MEN: 80/40 = 2 4/80 = 1 : 3 REQUIRED
3 LAVATORIES PROVIDED
WOMEN: 80/40 = 2 4/80 = 1 : 3 REQUIRED
3 LAVATORIES PROVIDED

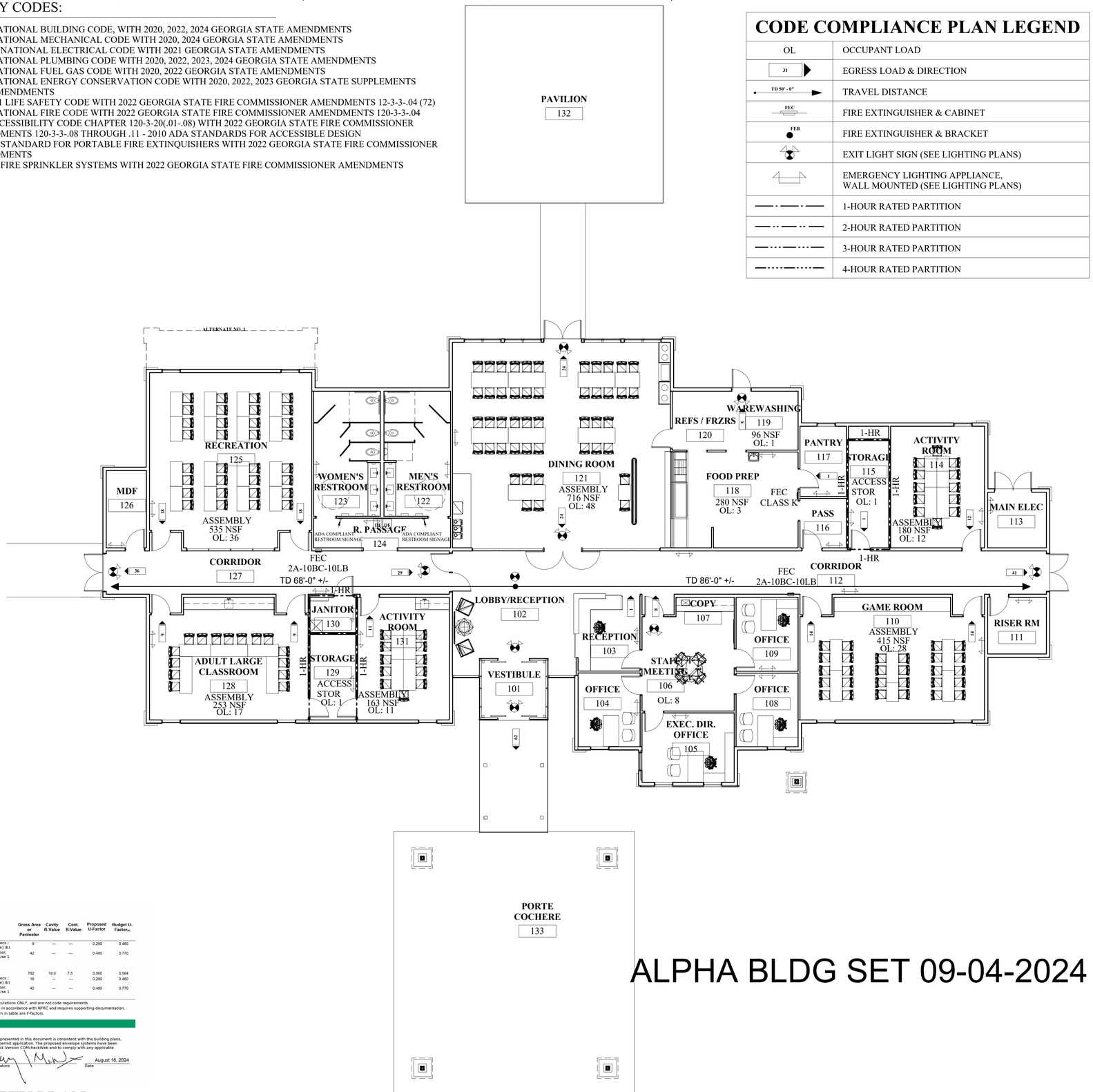
DRINKING FOUNTAINS: 1/100 = 168/100 = 1.68 REQUIRED / 2 PROVIDED
JANITOR SINKS: 1 REQUIRED / 1 PROVIDED

MANDATORY CODES:

2018 INTERNATIONAL BUILDING CODE, WITH 2020, 2022, 2024 GEORGIA STATE AMENDMENTS
2018 INTERNATIONAL MECHANICAL CODE WITH 2020, 2024 GEORGIA STATE AMENDMENTS
2020 NFPA 70 NATIONAL ELECTRICAL CODE WITH 2021 GEORGIA STATE AMENDMENTS
2018 INTERNATIONAL PLUMBING CODE WITH 2020, 2022, 2023, 2024 GEORGIA STATE AMENDMENTS
2018 INTERNATIONAL FUEL GAS CODE WITH 2020, 2022 GEORGIA STATE AMENDMENTS
2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH 2020, 2022, 2023 GEORGIA STATE SUPPLEMENTS AND AMENDMENTS
2018 NFPA 101 LIFE SAFETY CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 12-3-3-.04 (72)
2018 INTERNATIONAL FIRE CODE WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04
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
2018 NFPA 10 STANDARD FOR PORTABLE FIRE EXTINQUISHERS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS
2019 NFPA 13 FIRE SPRINKLER SYSTEMS WITH 2022 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS

CODE COMPLIANCE PLAN LEGEND

OL	OCCUPANT LOAD
31 ▶	EGRESS LOAD & DIRECTION
TD 50' - 0" ▶	TRAVEL DISTANCE
FEC	FIRE EXTINGUISHER & CABINET
FEB	FIRE EXTINGUISHER & BRACKET
	EXIT LIGHT SIGN (SEE LIGHTING PLANS)
	EMERGENCY LIGHTING APPLIANCE, WALL MOUNTED (SEE LIGHTING PLANS)
	1-HOUR RATED PARTITION
	2-HOUR RATED PARTITION
	3-HOUR RATED PARTITION
	4-HOUR RATED PARTITION



COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	Newton County Enrichment Center
Location:	Covington,Georgia
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	39%

Construction Site:
Richard Chapel Road
Covington, Georgia 30016

Owner/Agent:
Newton County Board of Education
Covington, Georgia

Designer/Contractor:
Mike McCorey Jr.
Sunbelt Builders
Covington, Georgia 30014

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Building Area	Floor Area
1-Office : Nonresidential	8169

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{tu}$
Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - Office]	8823	38.0	0.0	0.027	0.027
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Office] (c)	485	---	---	0.730	0.730
NORTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	1042	19.0	7.5	0.060	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451T, SHGC 0.22, [Bldg. Use 1 - Office] (b)	188	---	---	0.290	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451T, SHGC 0.22, [Bldg. Use 1 - Office] (b)	725	---	---	0.290	0.460
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Stanley Dura Care 7200, SHGC 0.22, [Bldg. Use 1 - Office] (b)	42	---	---	0.480	0.770
EAST					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	66	19.0	7.5	0.060	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451T, SHGC 0.22, [Bldg. Use 1 - Office] (b)	16	---	---	0.290	0.460
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Kawneer 550 Entrance, SHGC 0.22, [Bldg. Use 1 - Office] (b)	42	---	---	0.480	0.770
SOUTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	1287	19.0	7.5	0.060	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451T, SHGC 0.22, [Bldg. Use 1 - Office] (b)	114	---	---	0.290	0.460
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	63	---	---	2.400	0.610
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	468	19.0	7.5	0.060	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451T, SHGC 0.22, [Bldg. Use 1 - Office] (b)	176	---	---	0.290	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451T, SHGC 0.22, [Bldg. Use 1 - Office] (b)	9	---	---	0.290	0.460
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Kawneer 550, SHGC 0.22, [Bldg. Use 1 - Office] (b)	42	---	---	0.480	0.770
WEST					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Office]	792	19.0	7.5	0.060	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451T, SHGC 0.22, [Bldg. Use 1 - Office] (b)	16	---	---	0.290	0.460
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Kawneer 550, SHGC 0.22, [Bldg. Use 1 - Office] (b)	42	---	---	0.480	0.770

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

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

Gary L. McNutt
Name - Title

Signature

August 18, 2024
Date

ALPHA BLDG SET 09-04-2024

CODE COMPLIANCE PLAN / LIFE SAFETY PLAN

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

PROJ NORTH

0' 4' 8'
SCALE IN FEET

GM
Architect
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Covington, Georgia
30014

CODE COMPLIANCE / LIFE SAFETY PLAN

New Facility
Newton County Enrichment Center
Covington, Georgia
Richard Chapel Road

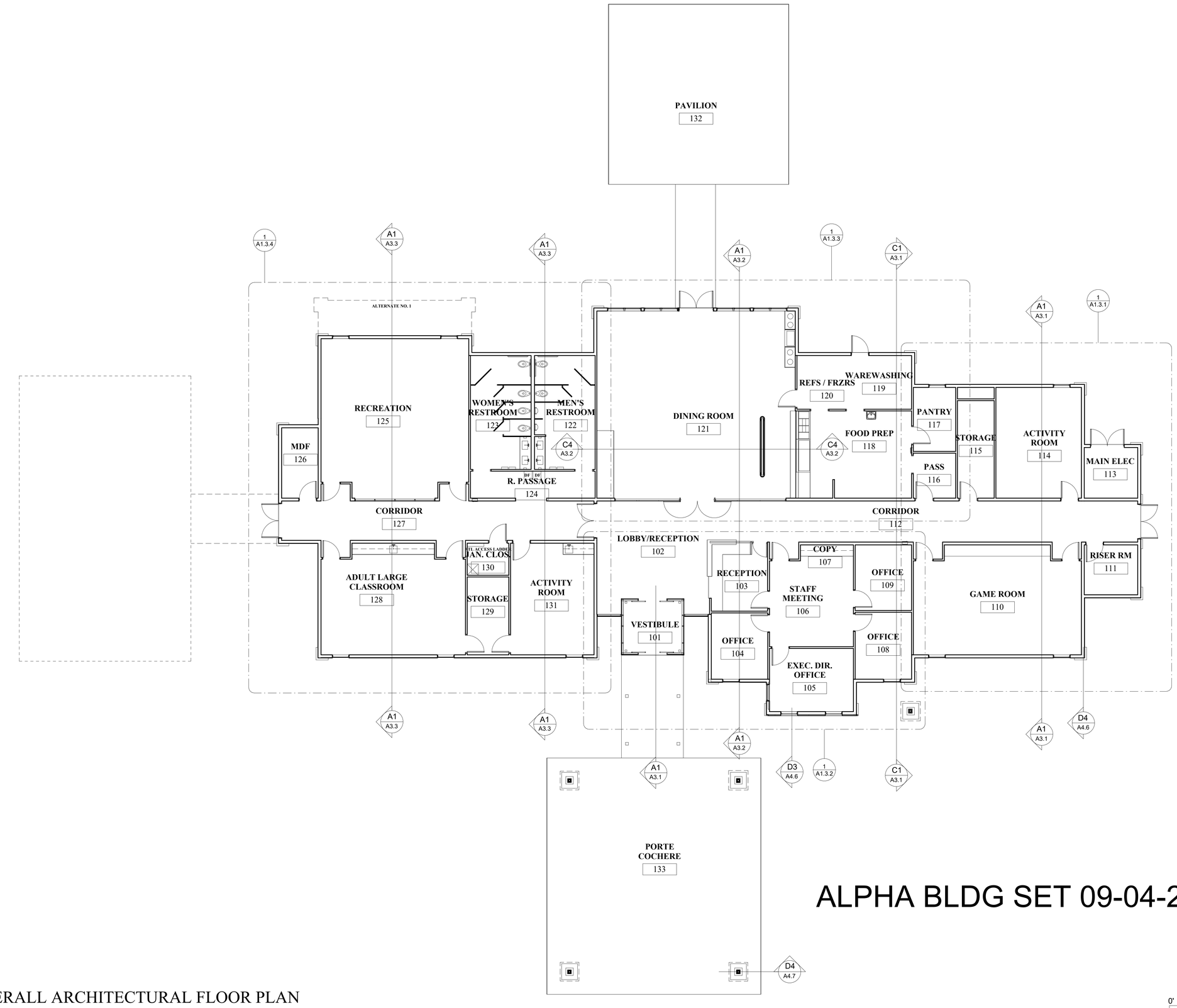
JOB NO.:	2309
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CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
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DATE:	03.11.24
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1	04.22.24
2	08.23.24
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ALPHA BLDG SET 09-04-2024

OVERALL ARCHITECTURAL FLOOR PLAN

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

PROJ NORTH

0' 4' 8'
SCALE IN FEET

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OVERALL ARCHITECTURAL PLAN

New Facility
Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

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GENERAL PARTITION NOTES:

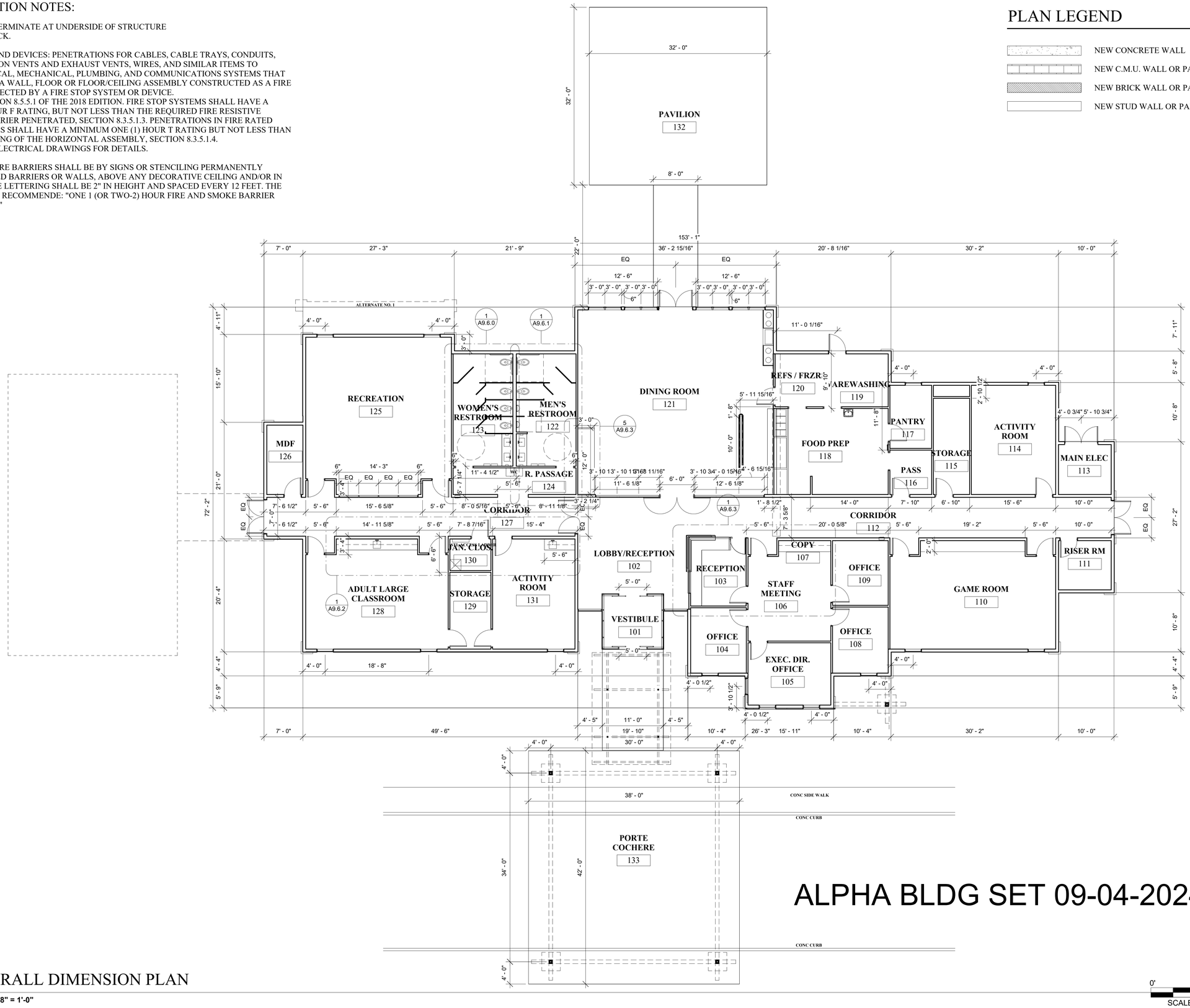
(1) ALL PARTITIONS TO TERMINATE AT UNDERSIDE OF STRUCTURE FLOOR AND/OR ROOF DECK.

(2) FIRE STOP SYSTEMS AND DEVICES: PENETRATIONS FOR CABLES, CABLE TRAYS, CONDUITS, PIPES, TUBES, COMBUSTION VENTS AND EXHAUST VENTS, WIRES, AND SIMILAR ITEMS TO ACOMMODATE ELEVTRICAL, 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 8.5.5.1 OF THE 2018 EDITION. FIRE STOP SYSTEMS SHALL HAVE A MINIMUM OF ONE (1) HOUR F RATING, BUT NOT LESS THAN THE REQUIRED 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.

(3) IDENTIFICATION OF FIRE BARRIERS SHALL BE BY SIGNS OR STENCILING PERMANENTLY 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 RECOMMENDE: "ONE 1 (OR TWO-2) HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS."

PLAN LEGEND

- NEW CONCRETE WALL
- NEW C.M.U. WALL OR PARTITION
- NEW BRICK WALL OR PARTITION
- NEW STUD WALL OR PARTITION



ALPHA BLDG SET 09-04-2024

OVERALL DIMENSION PLAN

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

PROJ NORTH

0' 4' 8'
SCALE IN FEET

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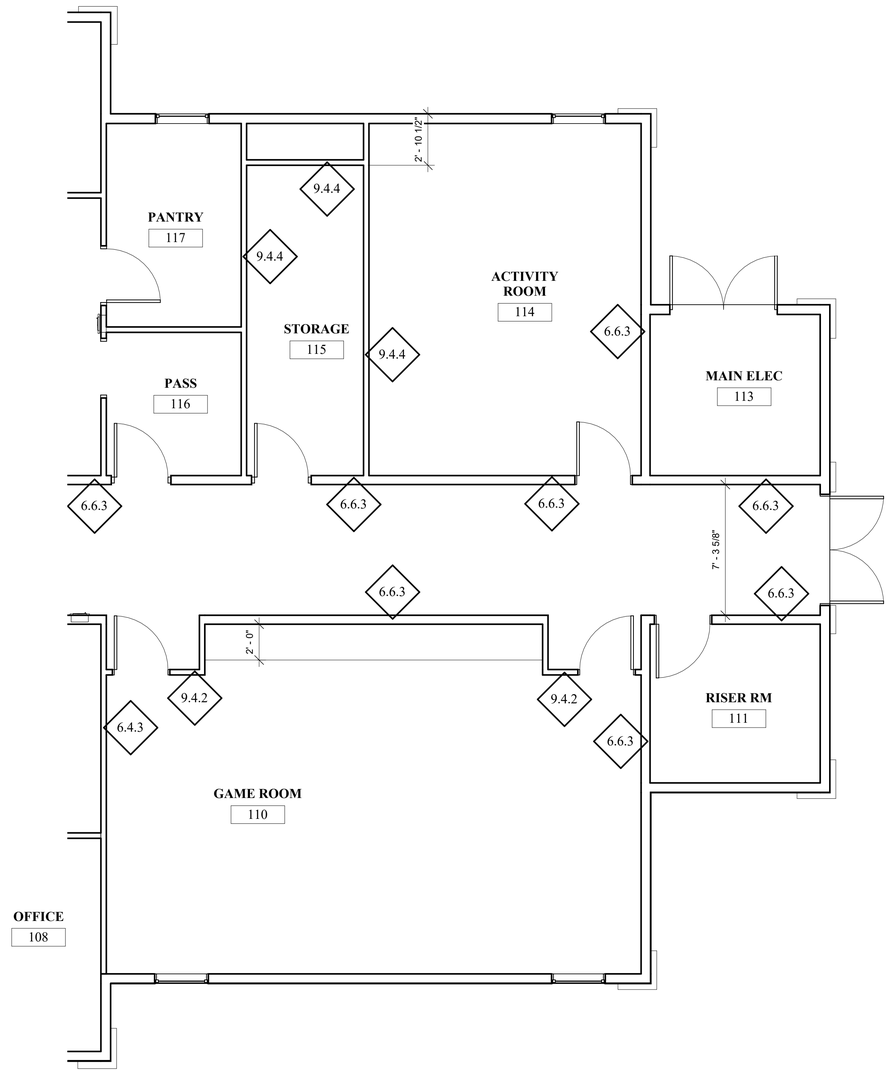
OVERALL DIMENSION PLAN

New Facility
Newton County Enrichment Center
Richard Chapel Road
Covington, Georgia

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PARTITION TYPES

NON-STRUCTURAL METAL FRAMING PARTITION
3-5/8" STEEL STUD PARTITIONS

9.4.1 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.

9.4.2 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE “X” GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION.

9.4.3 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.

9.4.4 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION (UL DESIGN NO. U419). ONE HOUR RATED ASSEMBLY.

9.4.5 — 3-5/8" STEEL STUDES AT 16" O.C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION (UL DESIGN NO. U419) TWO HOUR RATED ASSEMBLY.

6" STEEL STUD PARTITIONS

9.6.1 — 6" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.

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STRUCTURAL METAL FRAMING

3-5/8" STEEL STUD PARTITIONS

6.4.3 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER TYPE “X” GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION.

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ALPHA BLDG SET 09-04-2024

PROJ NORTH

ENLARGED PLAN - EAST WING

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

0' 4' 8'
SCALE IN FEET

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ENLARGED ARCH / DIMENSIONED PLANS - EAST

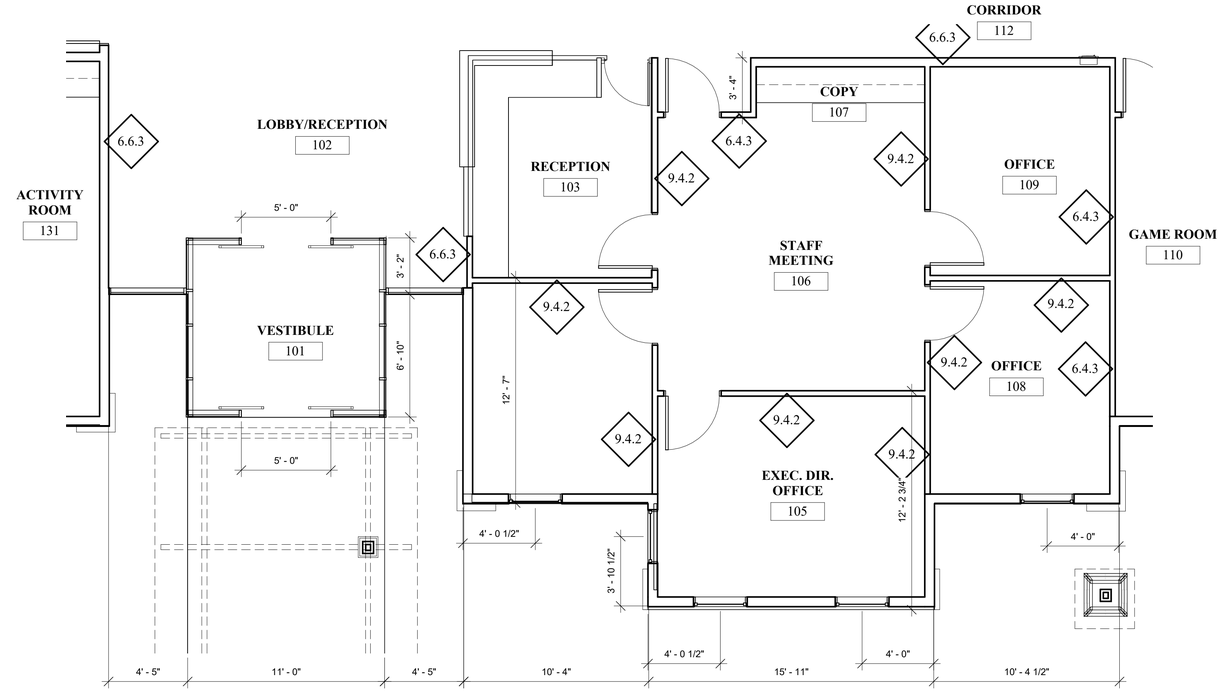
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Richard Chapel Road

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PARTITION TYPES

NON-STRUCTURAL METAL FRAMING PARTITION
3-5/8" STEEL STUD PARTITIONS

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6" STEEL STUD PARTITIONS

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STRUCTURAL METAL FRAMING

3-5/8" STEEL STUD PARTITIONS

6.4.3 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER TYPE “X” GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION.

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6" STEEL STUD PARTITIONS

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ALPHA BLDG SET 09-04-2024

PROJ NORTH

ENLARGED PLAN - SOUTH WING

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

0' 4' 8'
SCALE IN FEET

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ENLARGED ARCH / DIMENSIONED PLAN - SOUTH

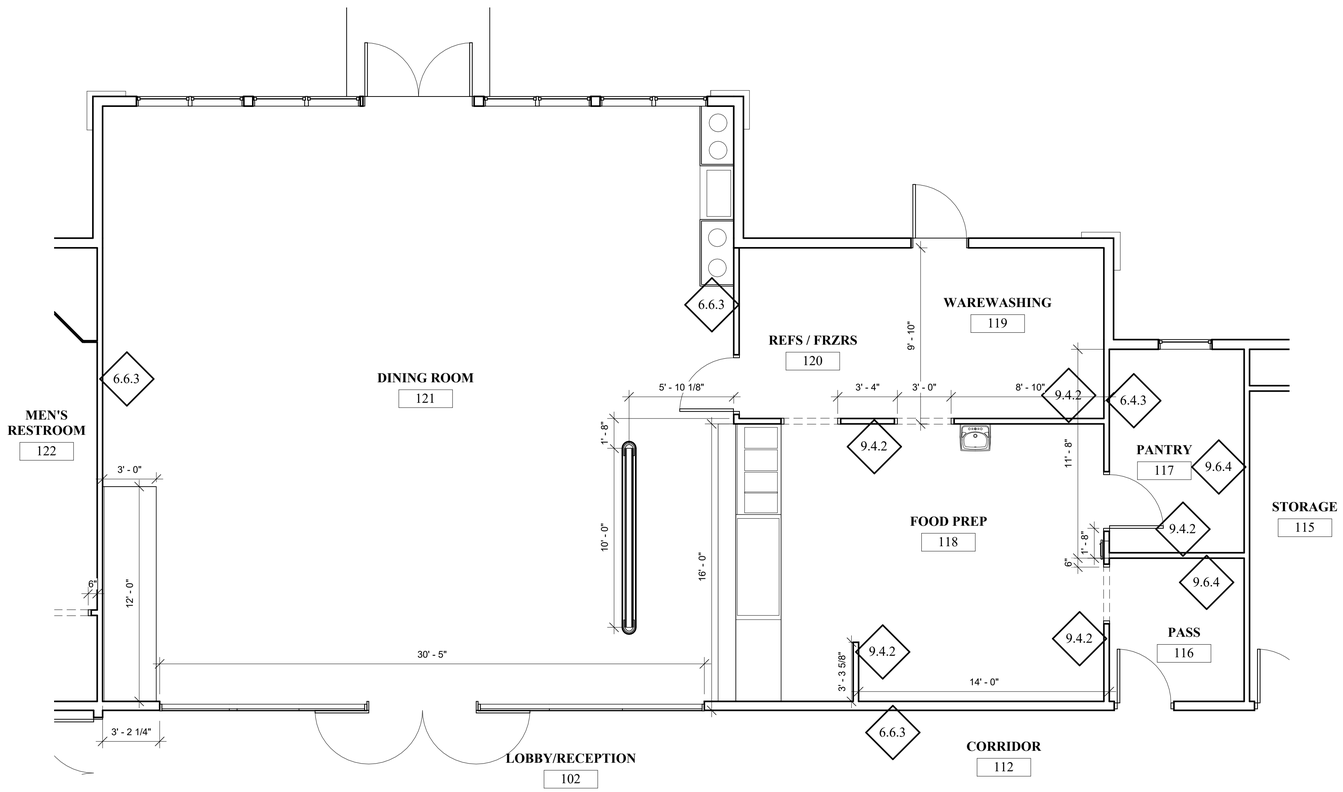
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SHEET
A1.3.2
OF 5



PARTITION TYPES

NON-STRUCTURAL METAL FRAMING PARTITION
3-5/8" STEEL STUD PARTITIONS

9.4.1 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.

9.4.2 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE “X” GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION.

9.4.3 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.

9.4.4 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION (UL DESIGN NO. U419). ONE HOUR RATED ASSEMBLY.

9.4.5 — 3-5/8" STEEL STUDES AT 16" O.C. WITH 2 LAYER 5/8" TYPE "X" GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION (UL DESIGN NO. U419) TWO HOUR RATED ASSEMBLY.

6" STEEL STUD PARTITIONS

9.6.1 — 6" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" GYPSUM BOARD ON ROOM SIDE FACE ONLY WITH SOUND ATTENUATION INSULATION.

9.6.2 — 6" STEEL STUDS AT 16" O.C. WITH 1 LAYER 5/8" TYPE “X” GYPSUM BOARD ON BOTH FACES WITH SOUND ATTENUATION INSULATION.

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STRUCTURAL METAL FRAMING

3-5/8" STEEL STUD PARTITIONS

6.4.3 — 3-5/8" STEEL STUDS AT 16" O.C. WITH 1 LAYER TYPE “X” GYPSUM BOARD ON EACH FACE WITH SOUND ATTENUATION INSULATION.

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ALPHA BLDG SET 09-04-2024

ENLARGED PLAN - NORTH WING

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

PROJ NORTH

0' 4' 8'
SCALE IN FEET

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ENLARGED ARCH / DIMENSIONED PLAN - NORTH

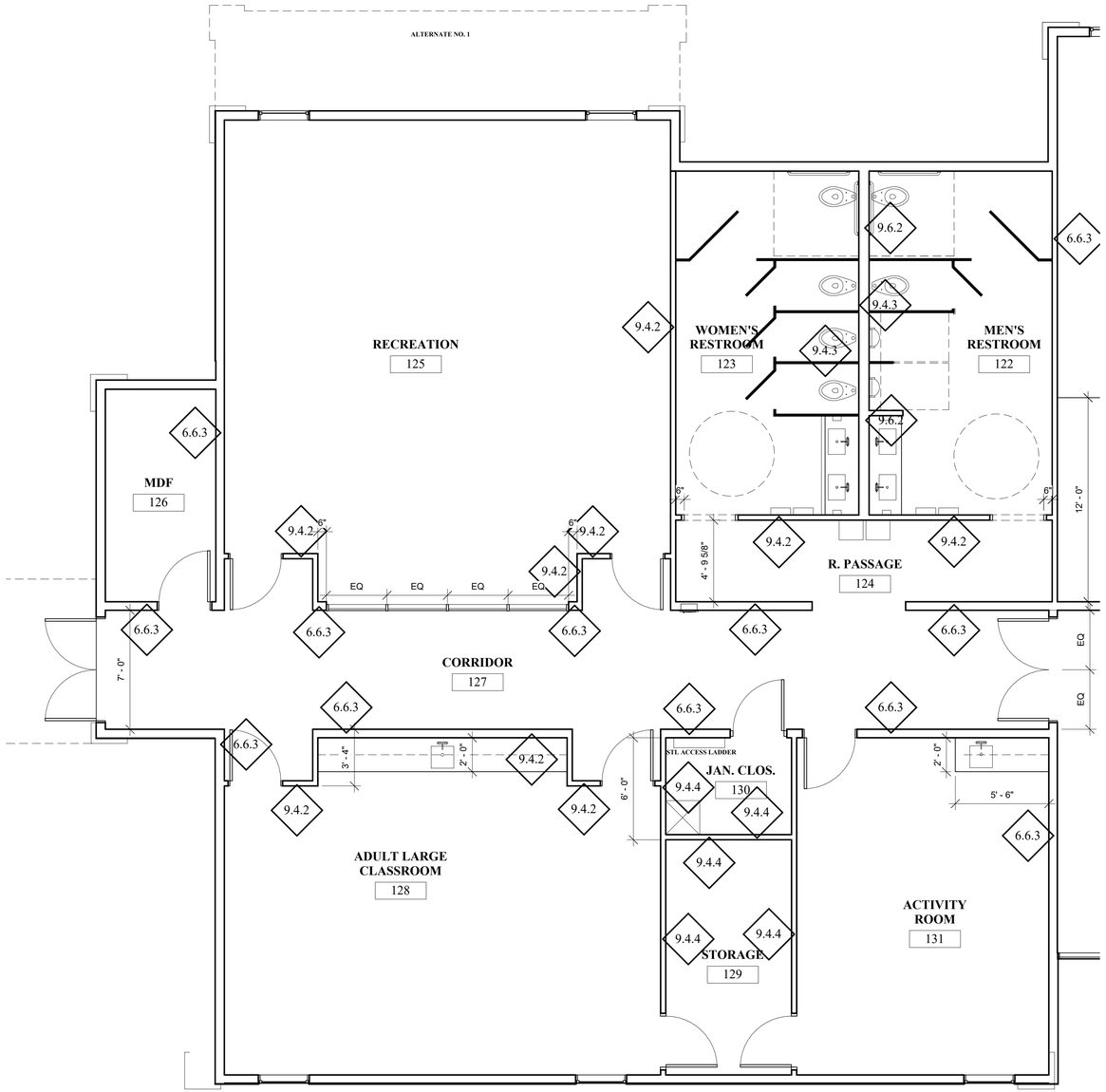
New Facility
Newton County Enrichment Center

Richard Chapel Road
Covington, Georgia

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PARTITION TYPES

NON-STRUCTURAL METAL FRAMING PARTITION
3-5/8" STEEL STUD PARTITIONS

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STRUCTURAL METAL FRAMING

3-5/8" STEEL STUD PARTITIONS

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ALPHA BLDG SET 09-04-2024

PROJ NORTH

ENLARGED PLAN - WEST WING

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

0' 4' 8'
SCALE IN FEET

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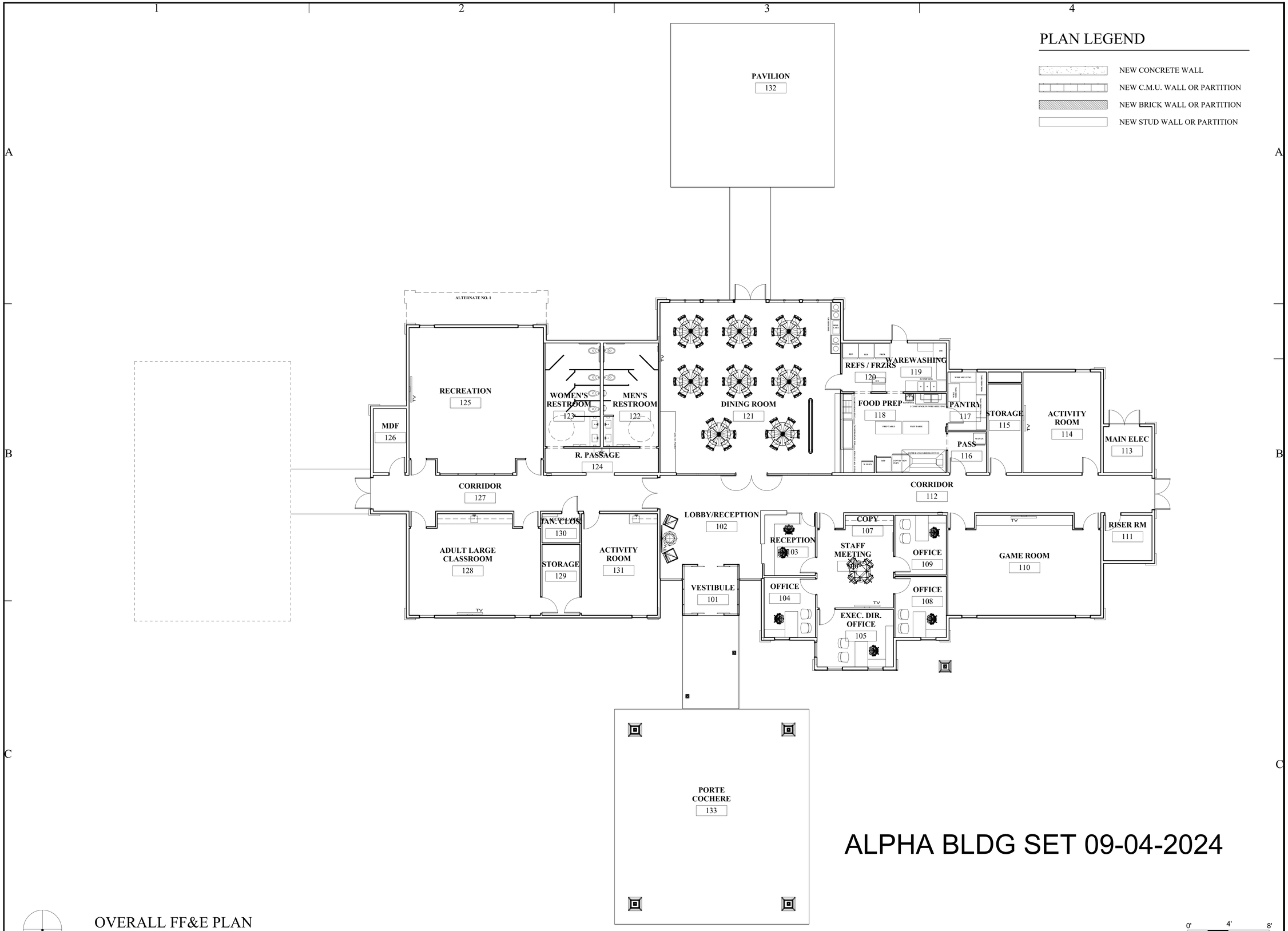
ENLARGED ARCH / DIMENSIONED PLAN - WEST

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Richard Chapel Road

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PLAN LEGEND

- NEW CONCRETE WALL
- NEW C.M.U. WALL OR PARTITION
- NEW BRICK WALL OR PARTITION
- NEW STUD WALL OR PARTITION

ALPHA BLDG SET 09-04-2024

PROJ NORTH

OVERALL FF&E PLAN

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

0' 4' 8'
SCALE IN FEET

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OVERALL FF&E PLAN

New Facility
Newton County Enrichment Center

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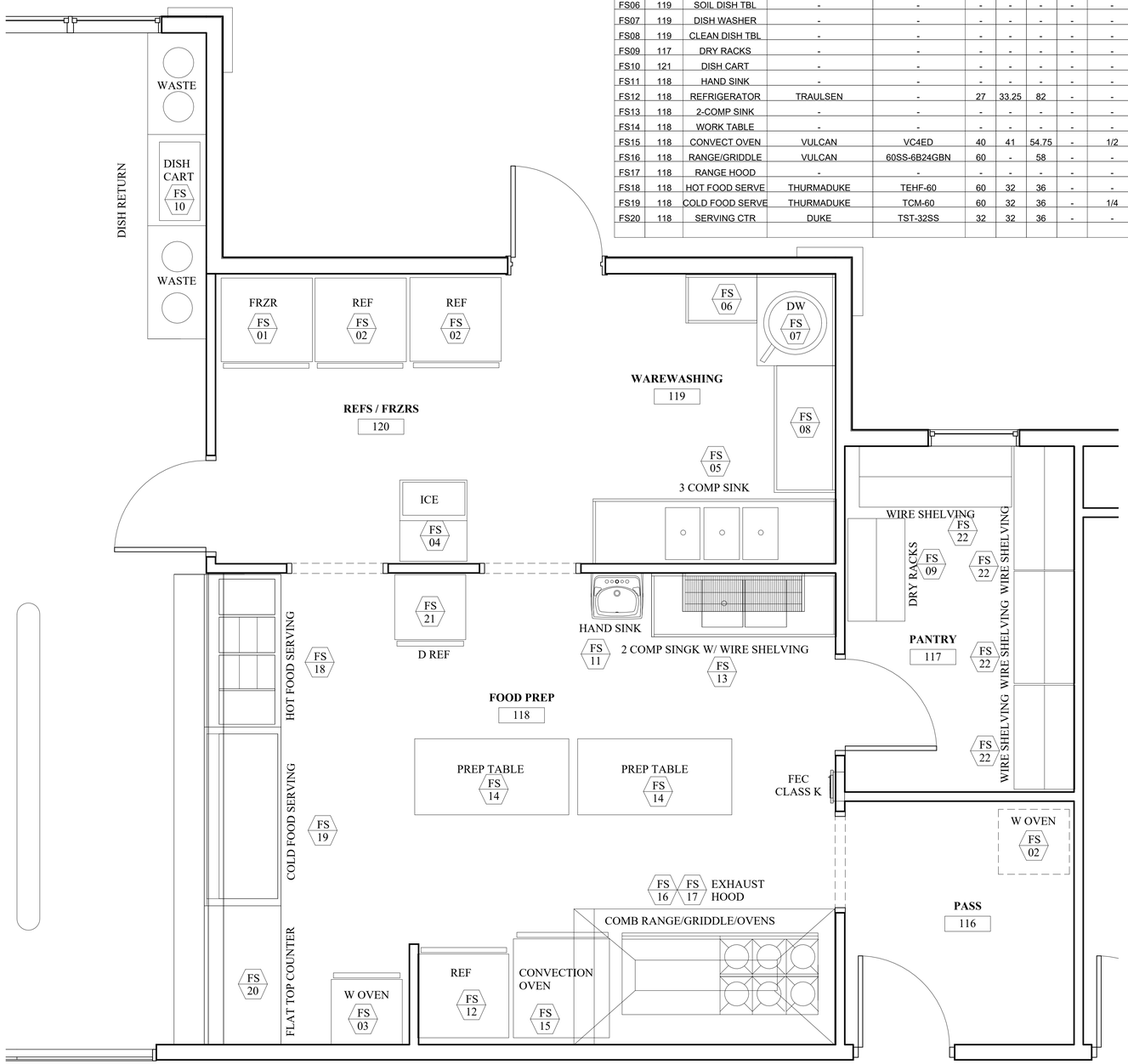
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EQUIPMENT SCHEDULE

ABBREVIATIONS:

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.	
FS01	120	FREEZER	TRAULSEN	CLBM-23F-FS-R	27	33.25	82	-	1/2	115	6.5	-	1	60	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS02	120	REFRIGERATOR	TRAULSEN	-	27	33.25	82	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS03	118	WARMING CAB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS04	120	ICE MAKER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS05	119	3-COMP SINIK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS06	119	SOIL DISH TBL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS07	119	DISH WASHER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS08	119	CLEAN DISH TBL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS09	117	DRY RACKS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS10	121	DISH CART	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS11	118	HAND SINK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS12	118	REFRIGERATOR	TRAULSEN	-	27	33.25	82	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS13	118	2-COMP SINK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS14	118	WORK TABLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS15	118	CONVECT OVEN	VULCAN	VC4ED	40	41	54.75	-	1/2	208	35	-	3	60	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS16	118	RANGE/GRIDDLE	VULCAN	60SS-6B24GBN	60	-	58	-	-	-	-	-	-	-	-	-	-	-	-	-	268 MBTU / EQUIPMENT BY OWNER
FS17	118	RANGE HOOD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER
FS18	118	HOT FOOD SERVE	THURMADUKE	TEHF-60	60	32	36	-	-	120	25	3000	1	60	-	-	3/4	-	-	-	EQUIPMENT BY OWNER
FS19	118	COLD FOOD SERVE	THURMADUKE	TCM-60	60	32	36	-	1/4	120	6	-	1	60	-	-	1	-	-	-	EQUIPMENT BY OWNER
FS20	118	SERVING CTR	DUKE	TST-32SS	32	32	36	-	-	-	-	-	-	-	-	-	-	-	-	-	EQUIPMENT BY OWNER



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ENLARGED KITCHEN / FOODSERVICE PLAN

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

PROJ NORTH

0' 4' 8'
SCALE IN FEET

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ENLARGED KITCHEN / FOODSERVICE PLAN

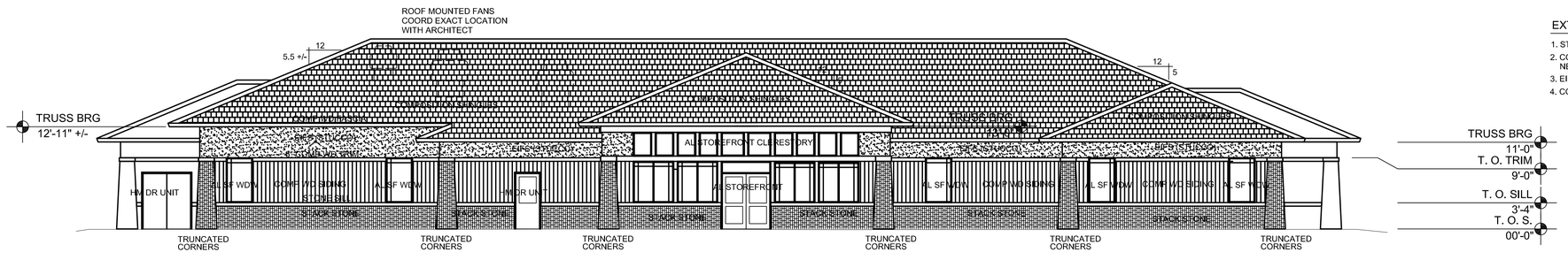
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Newton County Enrichment Center

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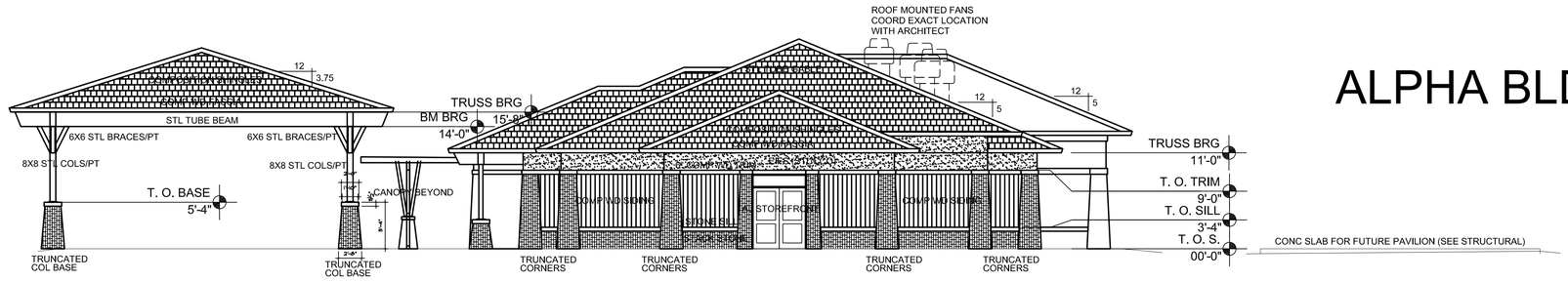
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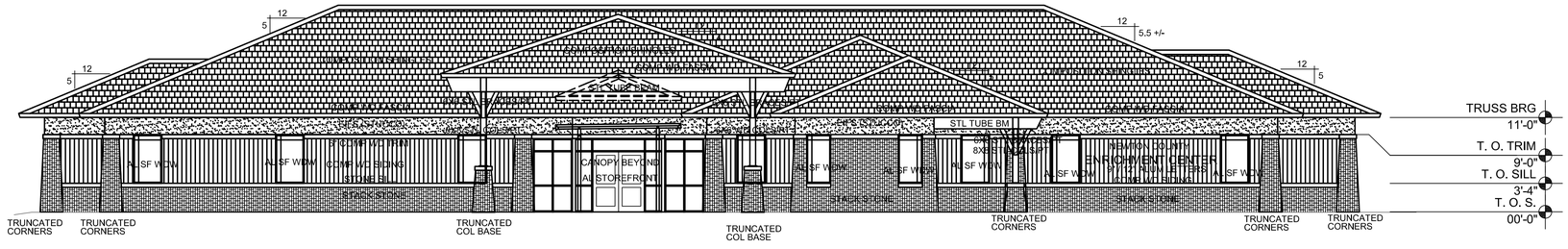
NORTH ELEVATION

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



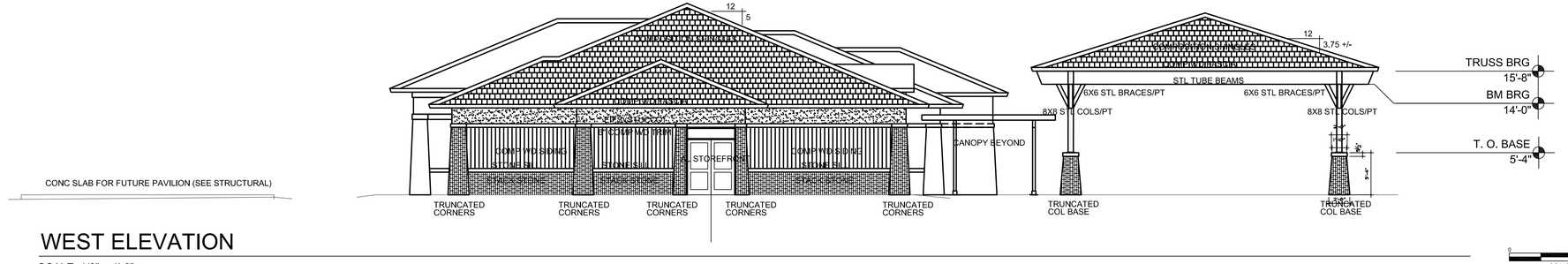
EAST ELEVATION

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



SOUTH ELEVATION

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



WEST ELEVATION

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

EXTERIOR FINISHES

1. STACK STONE: ELDORADO STACK STONE SYSTEM-CASTAWAY OR EQUAL
2. COMPOSITE WOOD SIDING / SOFFIT / CEILINGS: NEWTECHWOOD: USC9 VERTICAL TOUGUE & GROOVE OR EQUAL.
3. EIFS: EXTERIOR INSULATION FINISH SYSTEM- "OUTSULATION" OR EQUAL
4. COMPOSITION ASPHALT SHINGLES: TIMBERLINE HDZ "BIRCHWOOD" OR EQUAL

ALPHA BLDG SET 09-04-2024

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SUNBELT BUILDERS

BUILDING ELEVATIONS

New Facility
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Covington, Georgia

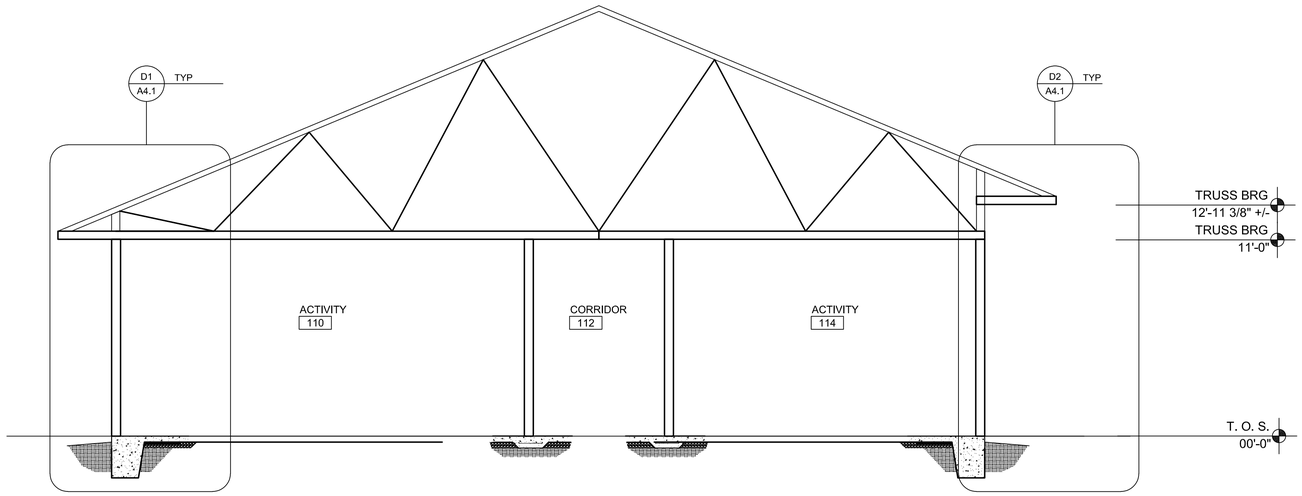
Richard Chapel Road

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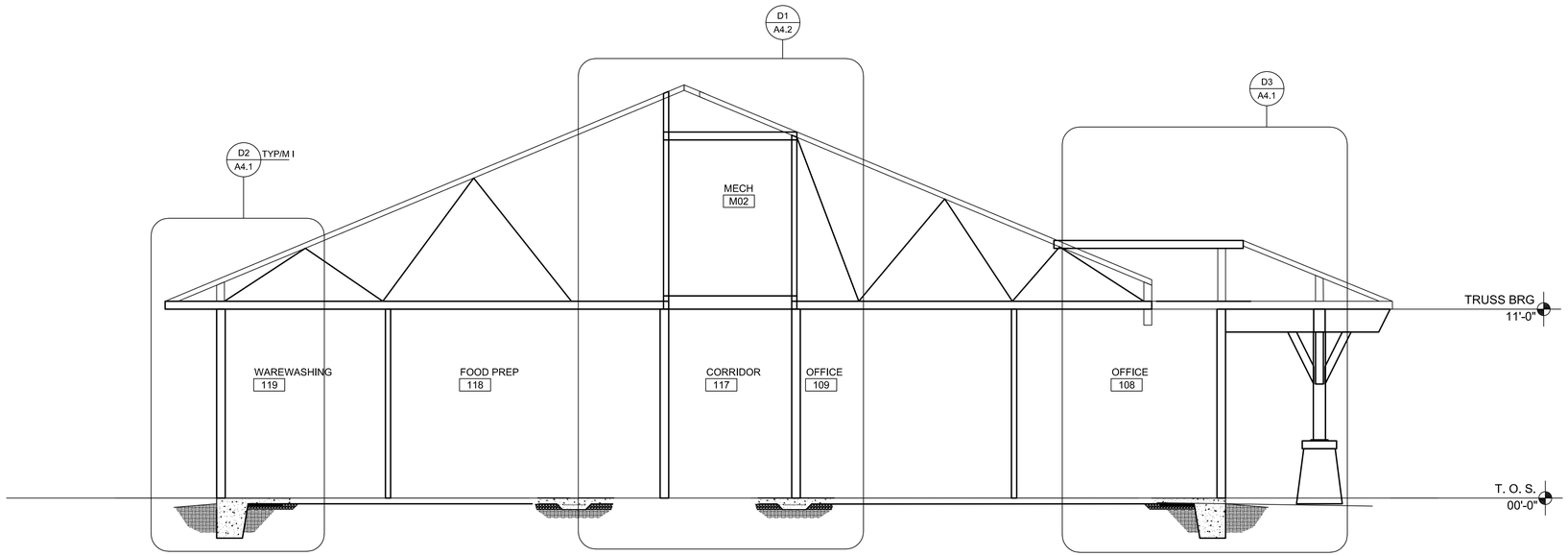
SHEET
A2.1
OF

SCALE IN FEET



A1 / A3.1 **BUILDING SECTION**

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



C1 / A3.1 **BUILDING SECTION**

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

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SUNBELT BUILDERS

BUILDING SECTIONS

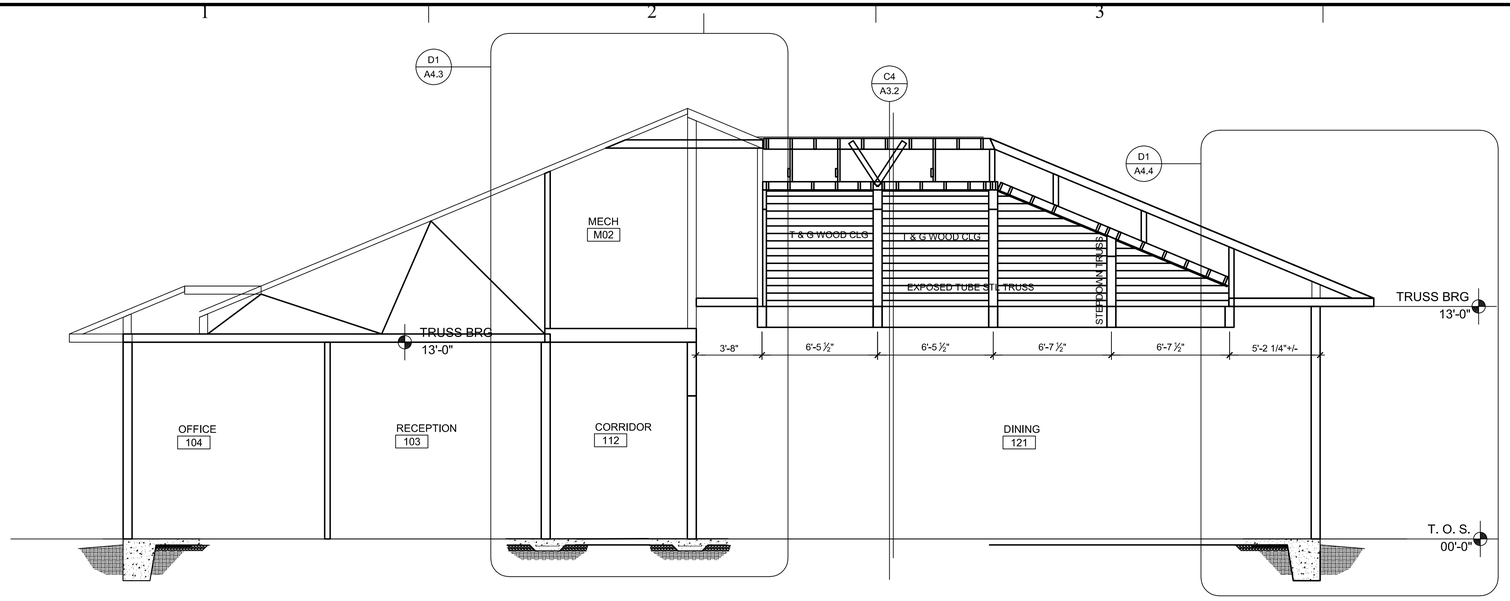
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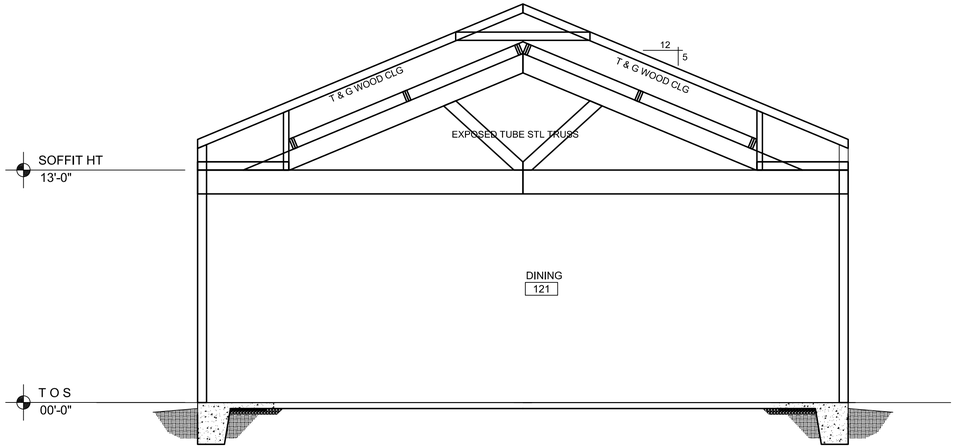
SHEET
A3.1
OF 1 2 3



A1
A3.2

BUILDING SECTION

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



C4
A3.2

BUILDING SECTION

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

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SUNBELT BUILDERS

BUILDING SECTIONS

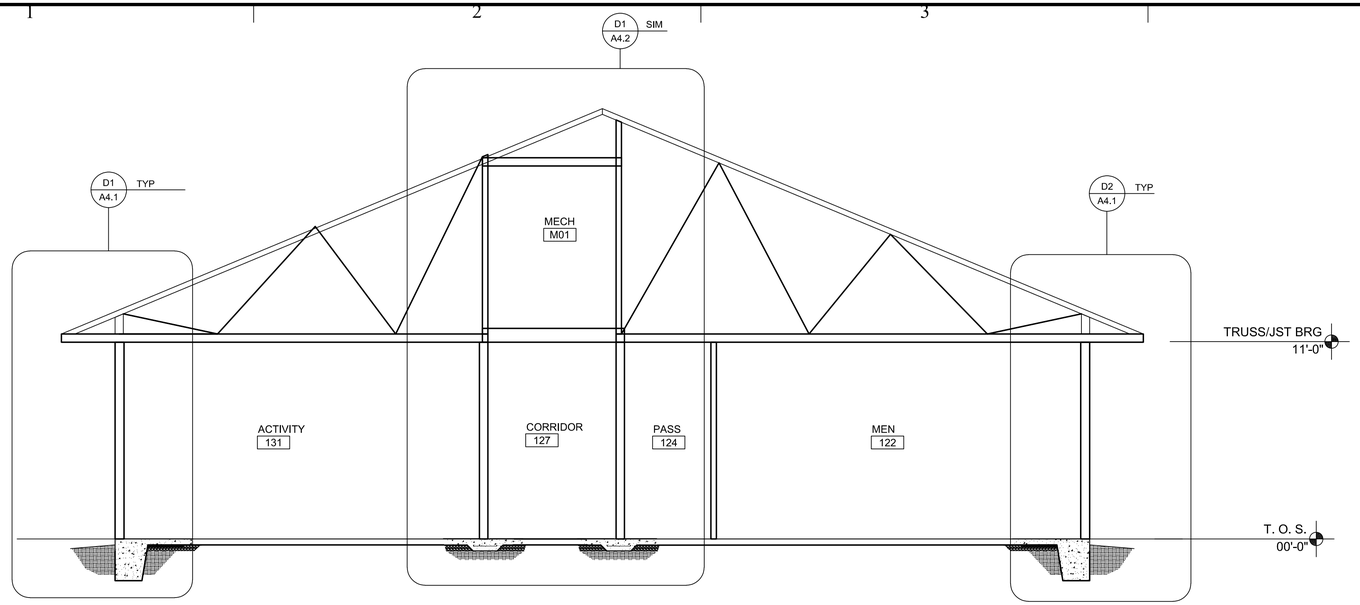
New Facility
Newton County Enrichment Center

Richard Chapel Road
Covington, Georgia

JOB NO.:	02309
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CHECKED BY:	GM
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DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID-CONSTRUCTION
DATE:	04.04.24
REVISIONS:	
1	04.22.24
2	05.24.24
3	07.09.24 VE
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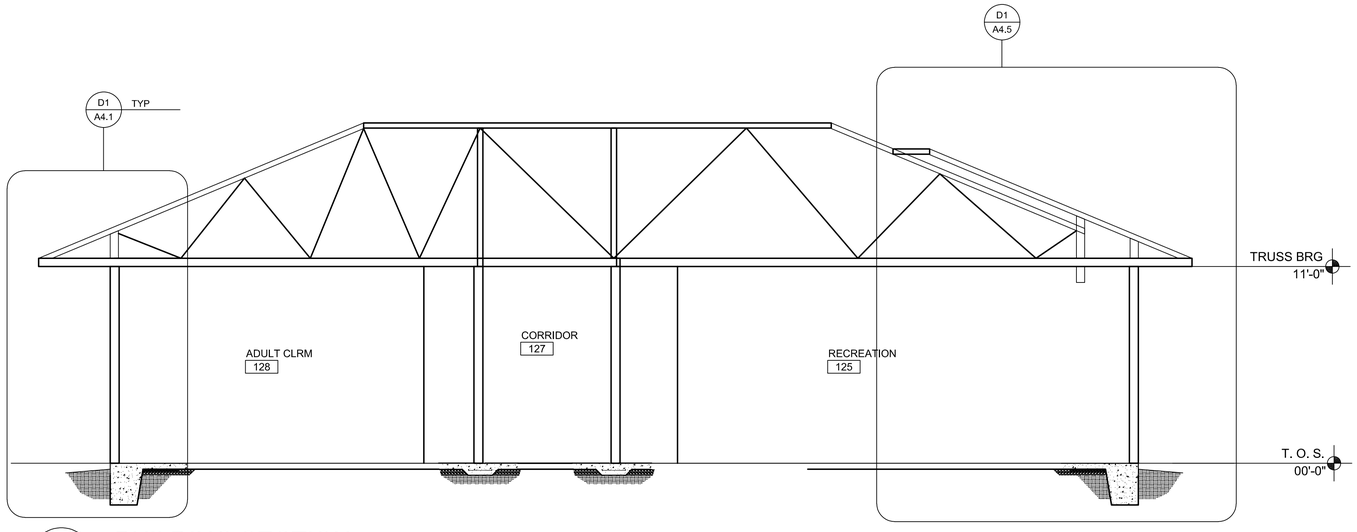
SHEET
A3.2
OF
1 2 3



A1
A3.3

BUILDING SECTION

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



C1
A3.3

BUILDING SECTION

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

ALPHA BLDG SET 09-04-2024

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SUNBELT BUILDERS

BUILDING SECTIONS

New Facility
Newton County Enrichment Center

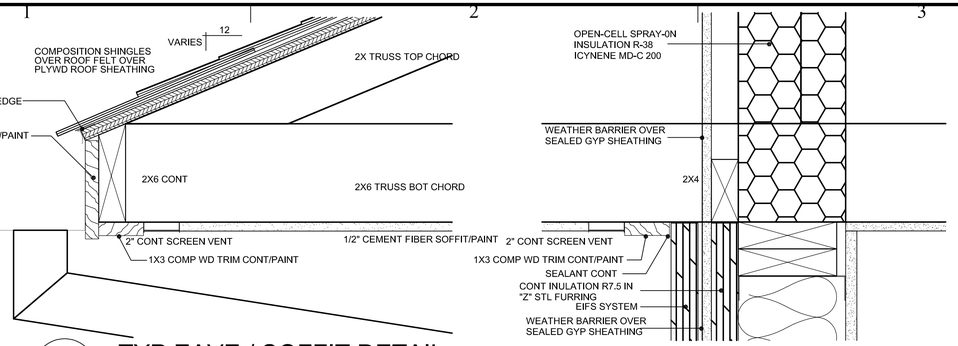
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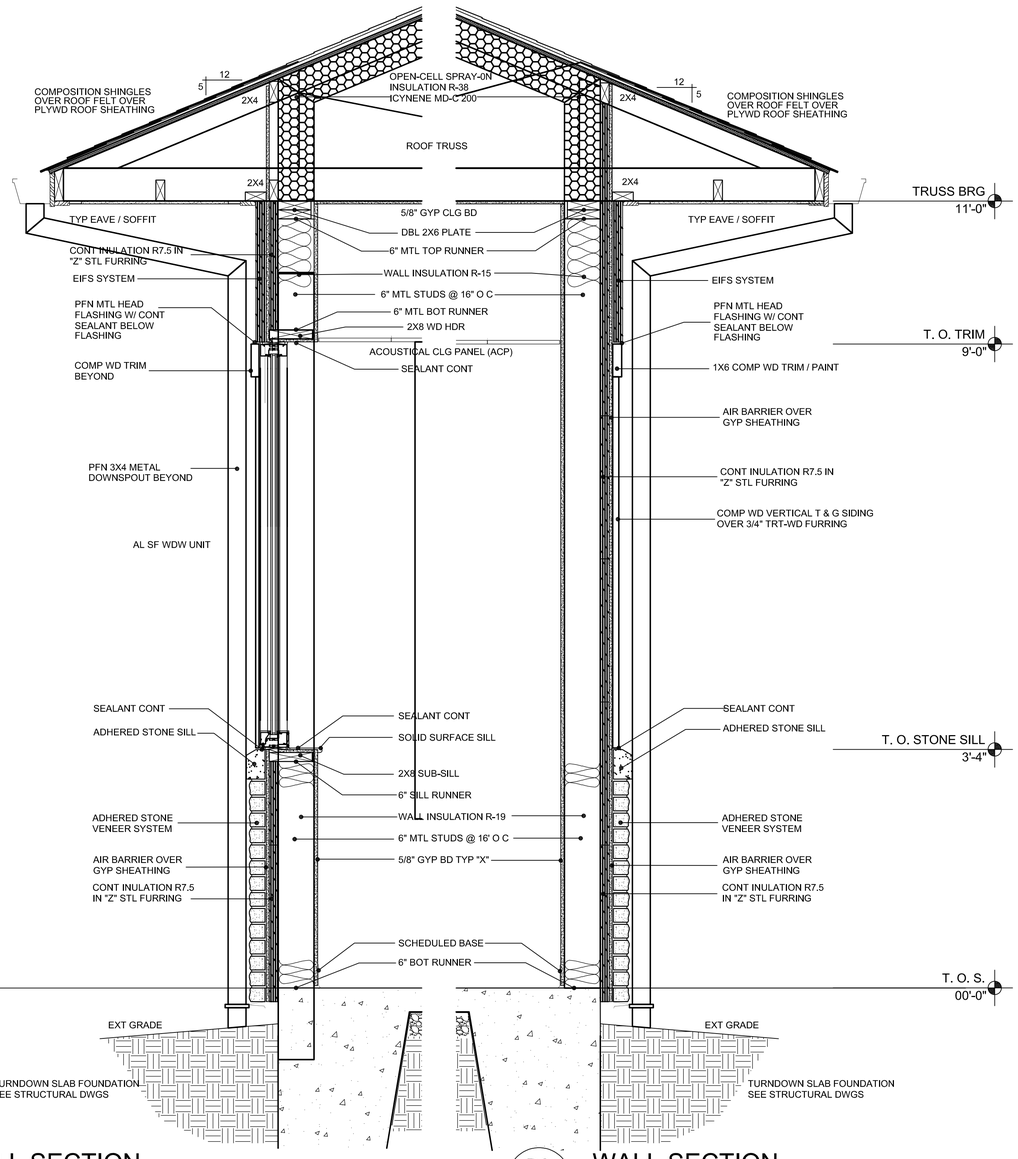
SHEET
A3.3
OF 1 2 3

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A1 / A4.1 TYP EAVE / SOFFIT DETAIL

SCALE: 3" = 1'-0"

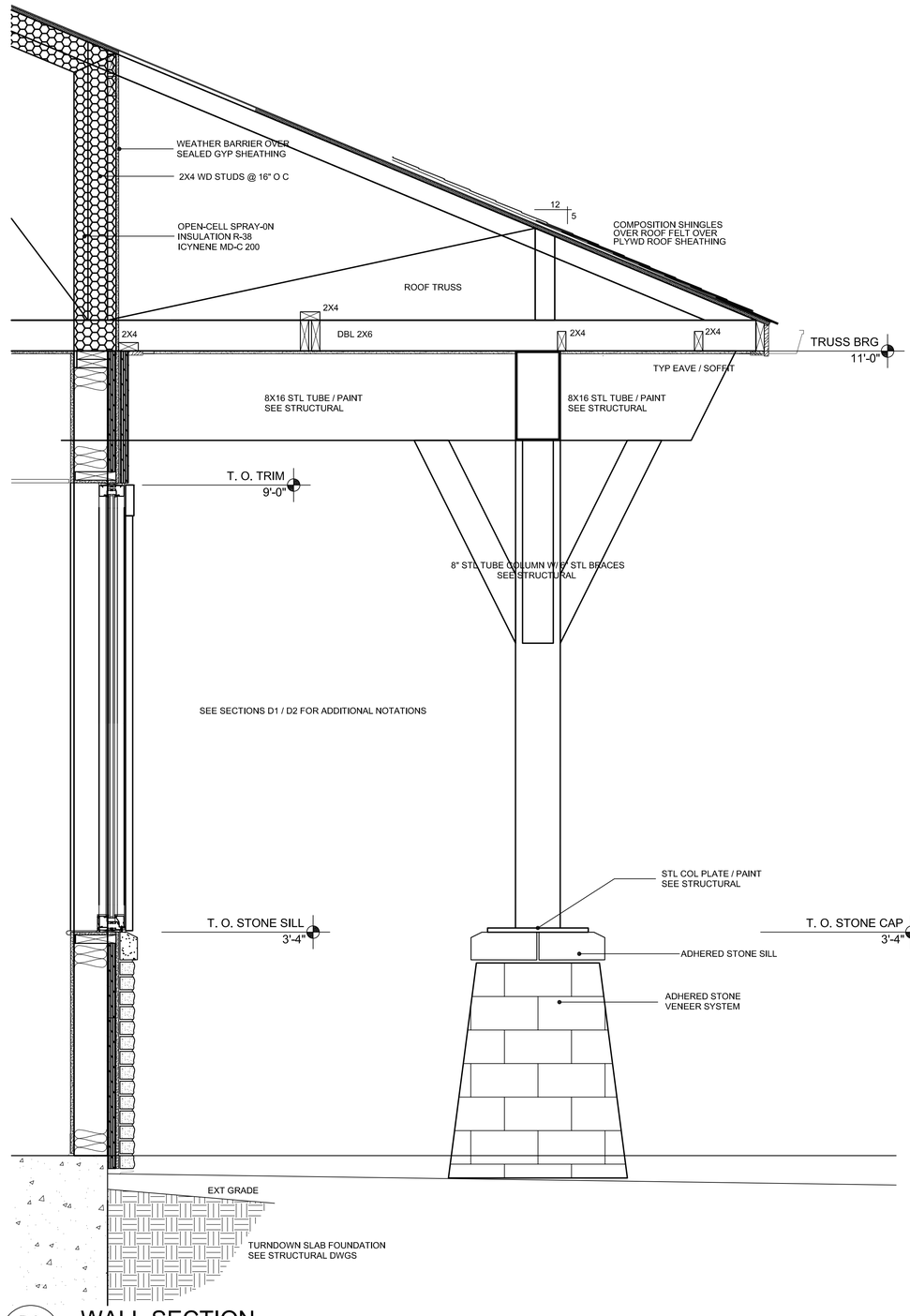


D1 / A4.1 WALL SECTION

SCALE: 1"=1'-0"

D2 / A4.1 WALL SECTION

SCALE: 1"=1'-0"



D3 / A4.1 WALL SECTION

SCALE: 1"=1'-0"

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SUNBELT BUILDERS

WALL SECTIONS & DETAILS

New Facility
Newton County Enrichment Center

Richard Chapel Road
Covington, Georgia

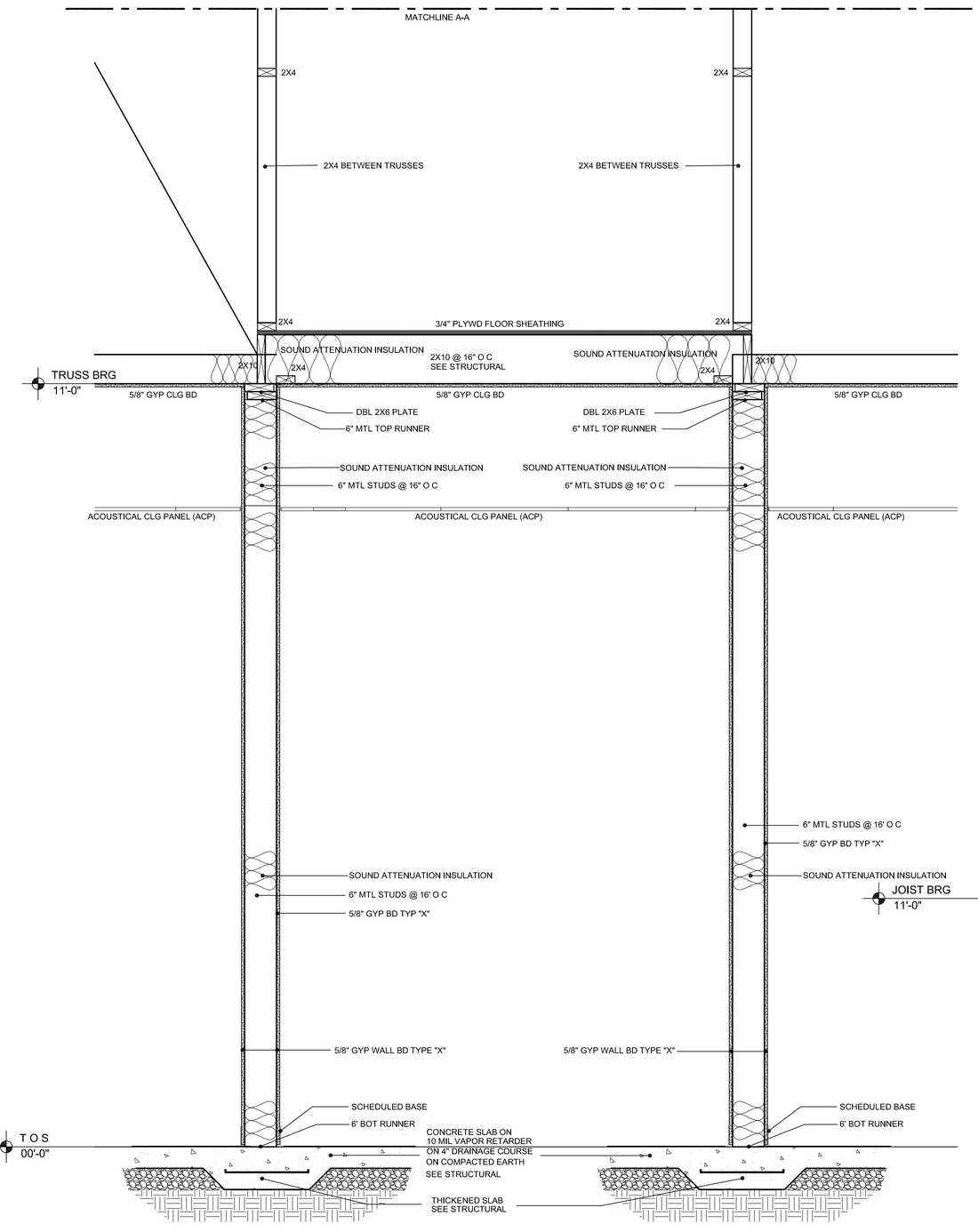
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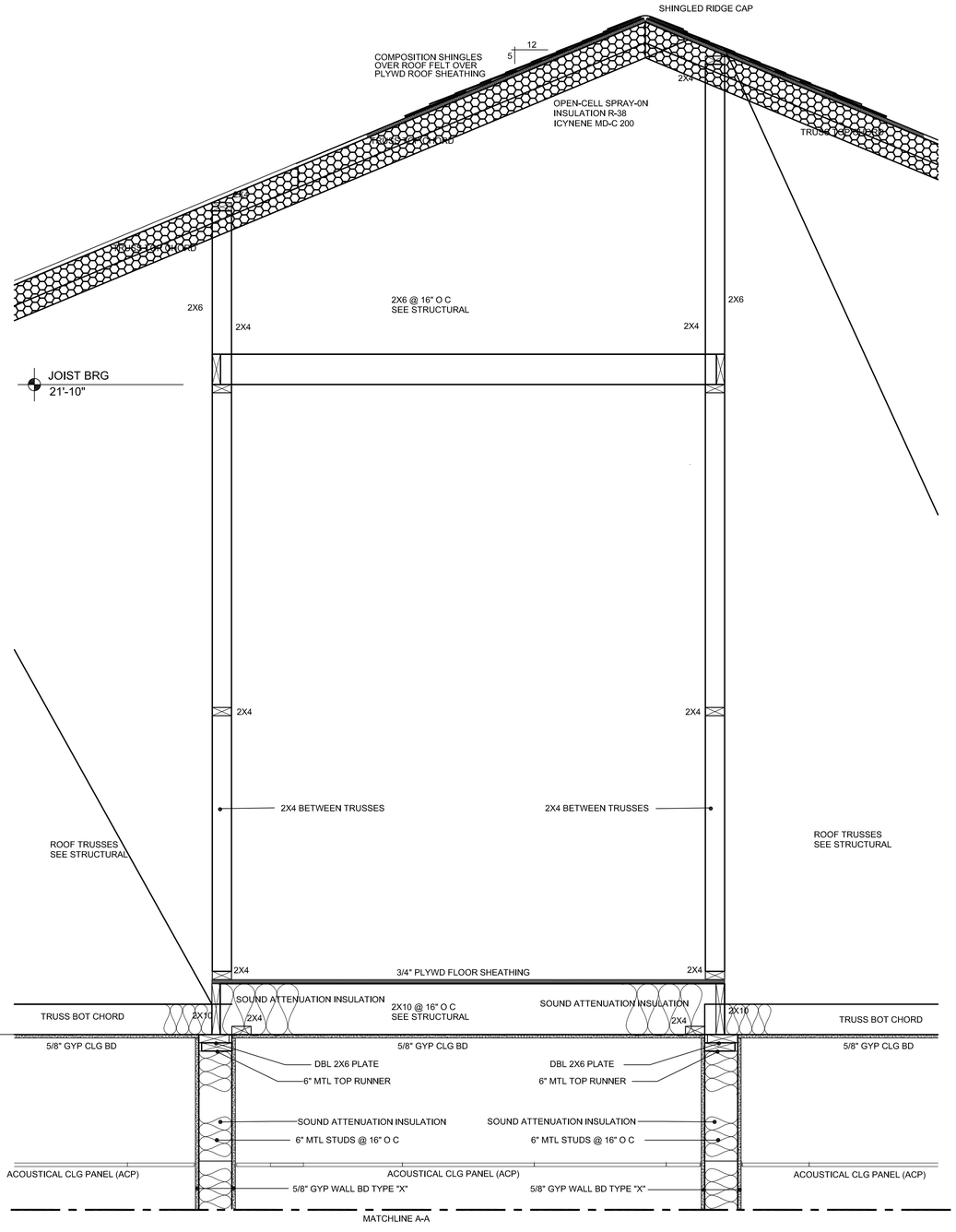
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SHEET

A4.1

OF





ALPHA BLDG SET 09-04-2024

D1
A4.2

WALL SECTION

SCALE: 1"=1'-0"

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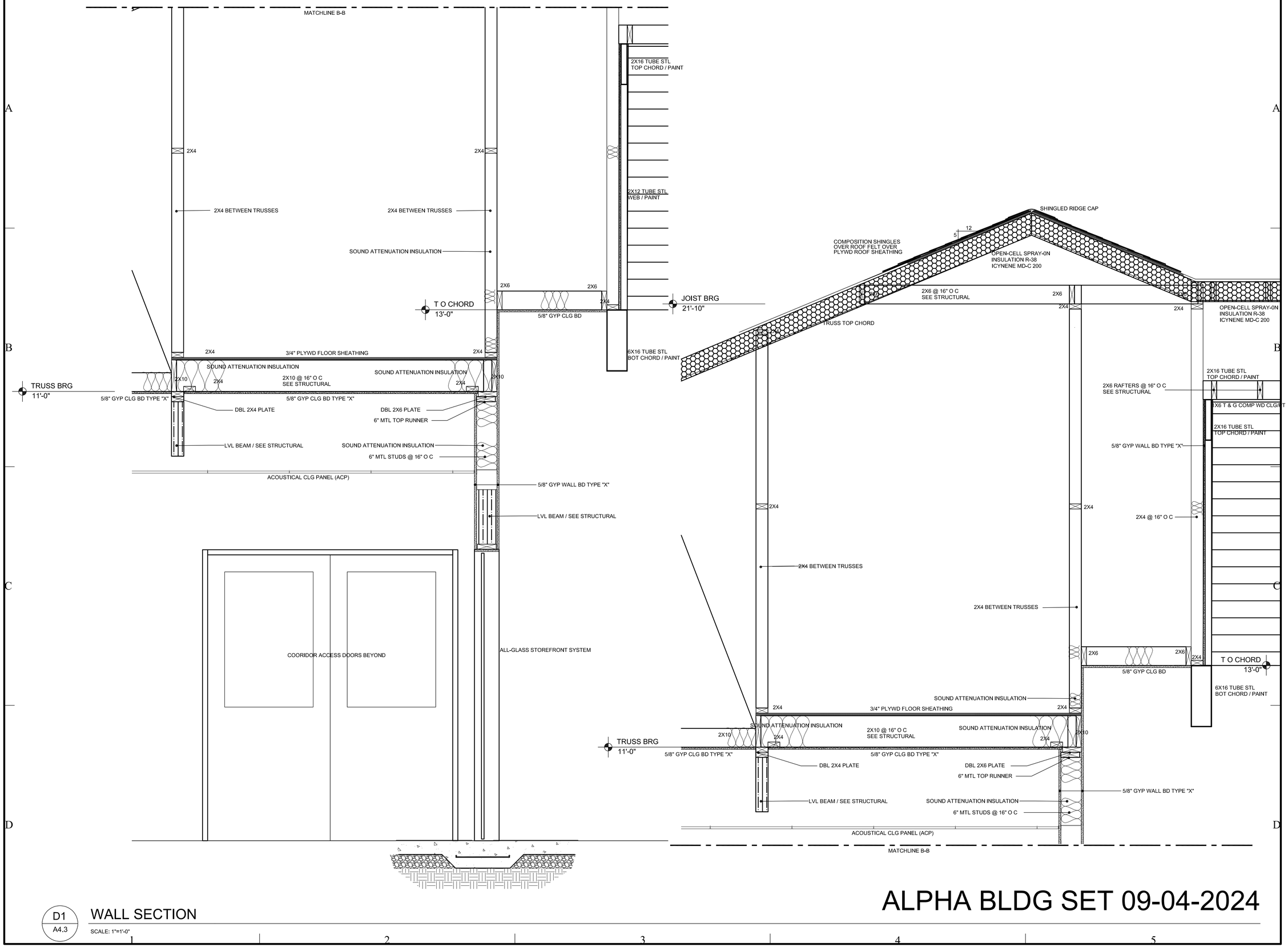
WALL SECTIONS & DETAILS

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Covington, Georgia
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SHEET
A4.2
OF
1 2 3



D1
A4.3

WALL SECTION

SCALE: 1"=1'-0"

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SUNBELT BUILDERS

WALL SECTIONS & DETAILS

New Facility
Newton County Enrichment Center

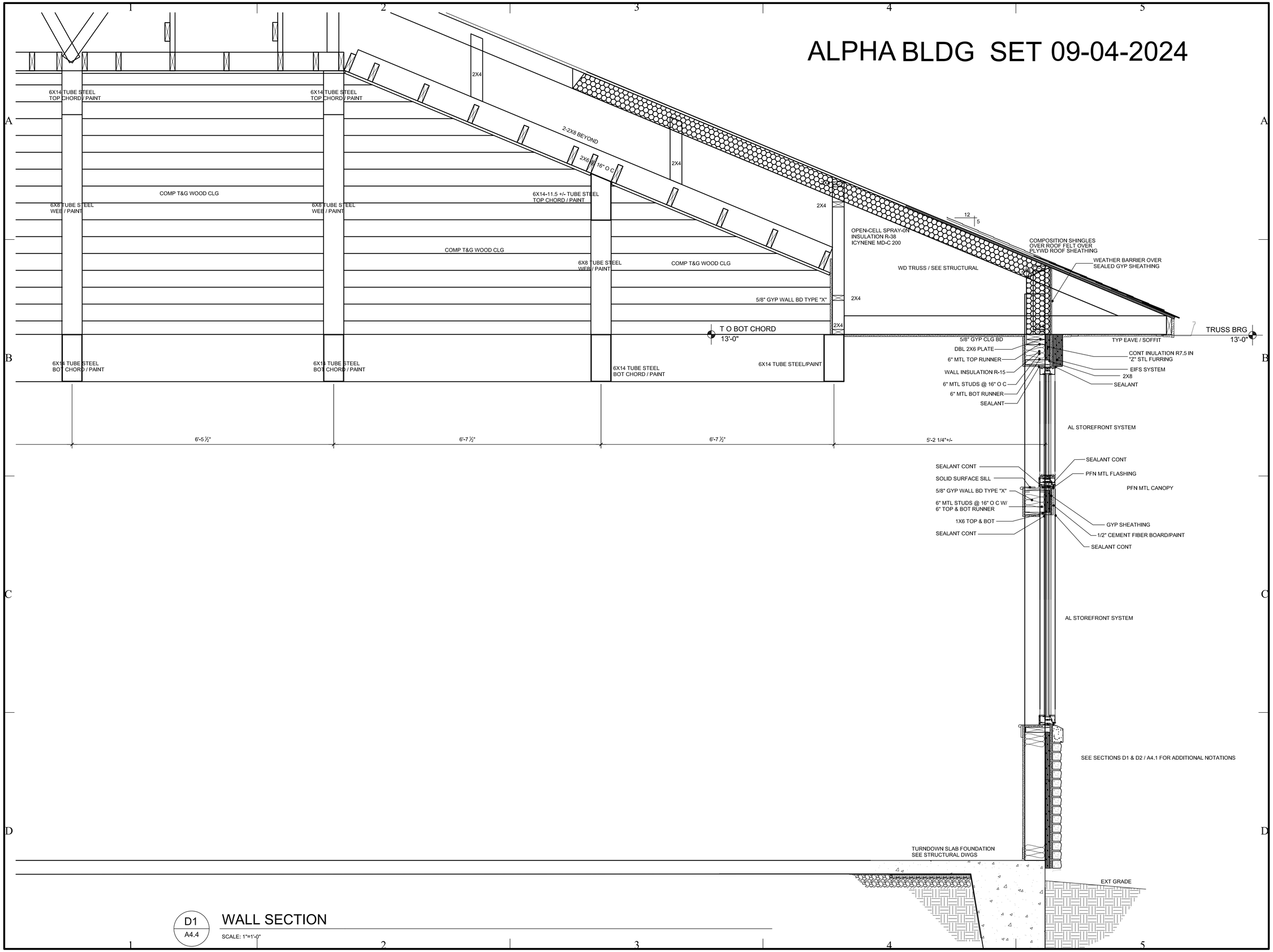
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SHEET
A4.3
OF
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D1 / A4.4

WALL SECTION

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SUNBELT BUILDERS

WALL SECTIONS & DETAILS

New Facility
Newton County Enrichment Center

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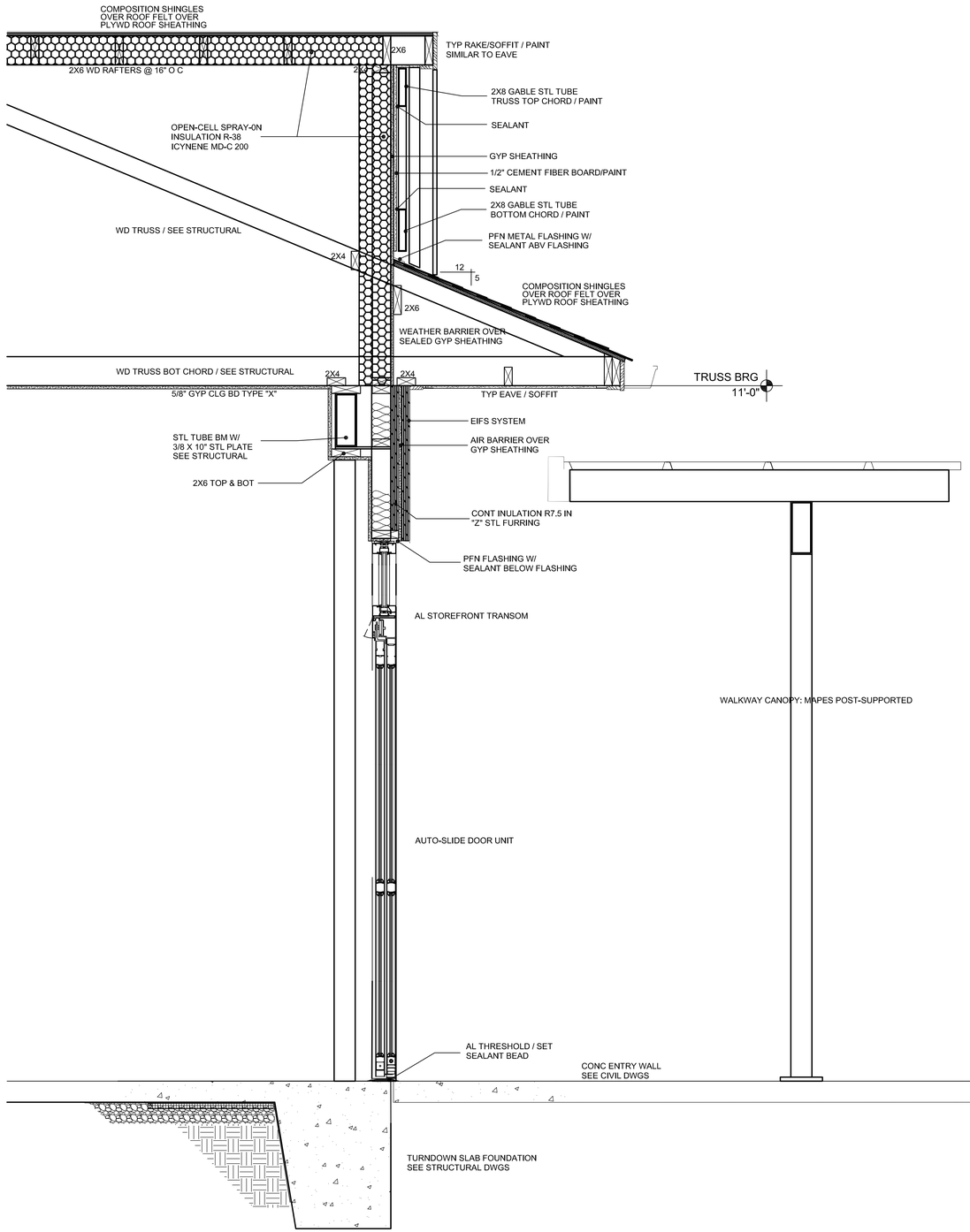
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SHEET

A4.4

OF



D1
A4.5

WALL SECTION

SCALE: 1"=1'-0"

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WALL SECTIONS & DETAILS

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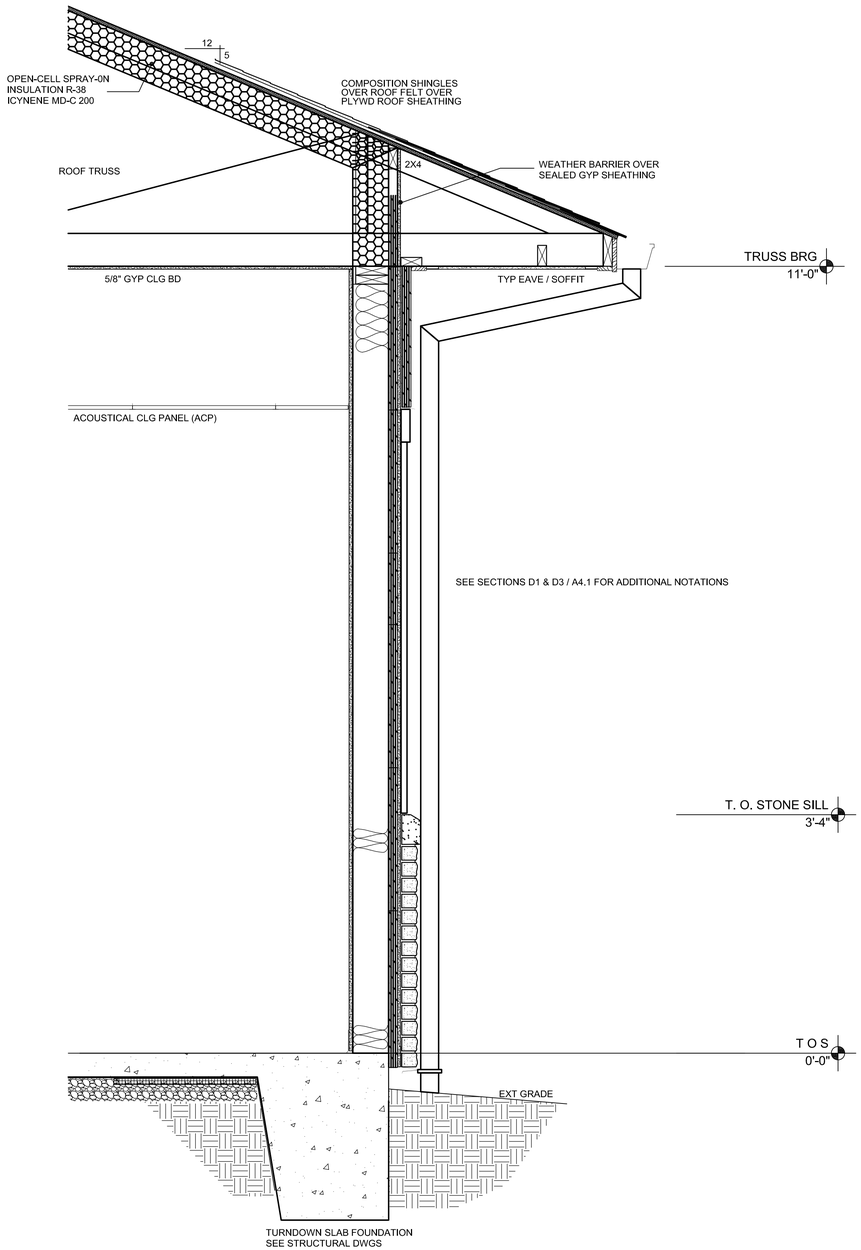
Richard Chapel Road
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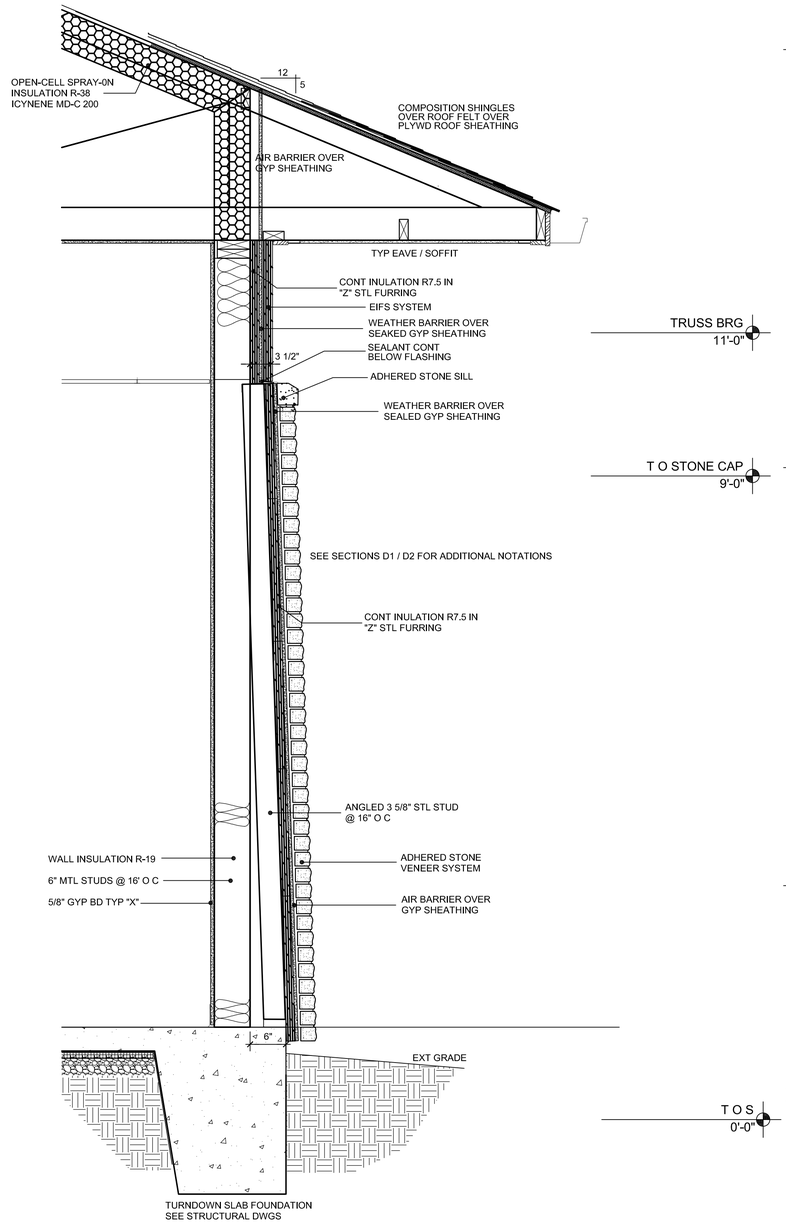
SHEET
A4.5
OF 1 2 3

ALPHA BLDG SET 09-04-2024



D1 / A4.6 — WALL SECTION

SCALE: 1"=1'-0"



D4 / A4.6 — WALL SECTION: CORNER PILASTERS

SCALE: 1"=1'-0"

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SUNBELT BUILDERS

WALL SECTIONS & DETAILS

New Facility
Newton County Enrichment Center

Richard Chapel Road — Covington, Georgia

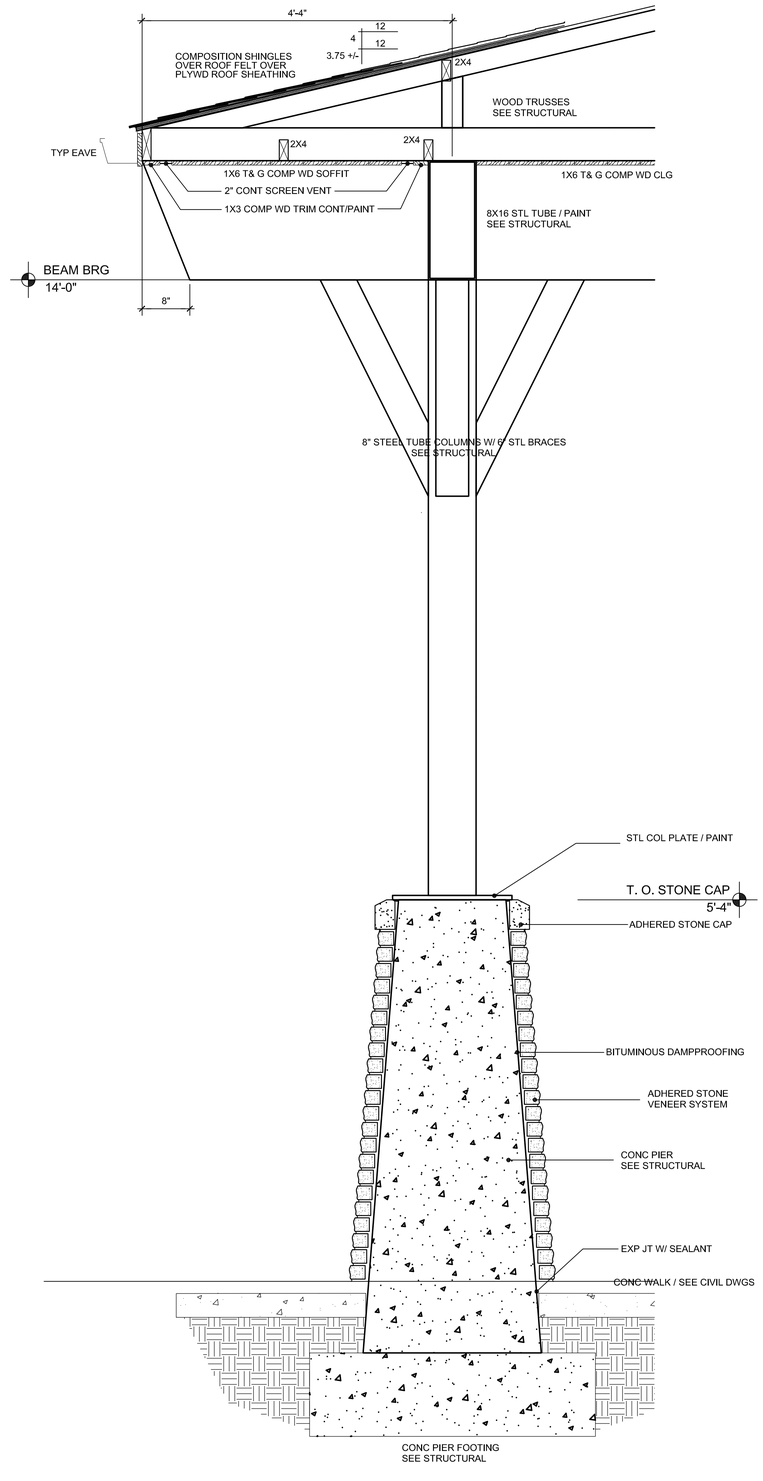
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SHEET

A4.6

OF 1 2 3



D4
D4.9

WALL SECTION: PORTE COCHERE COLUMNS

SCALE: 1"=1'-0"

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WALL SECTIONS & DETAILS

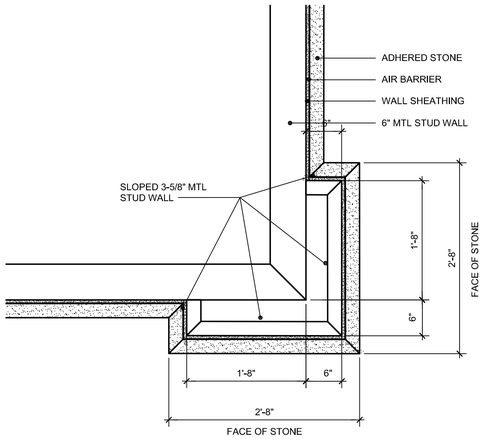
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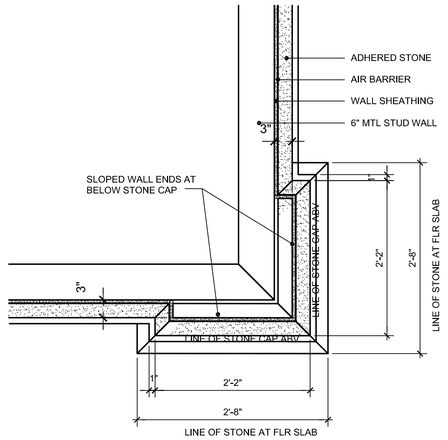
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SHEET
A4.7
OF 1 2 3



PILASTER AT FLOOR SLAB

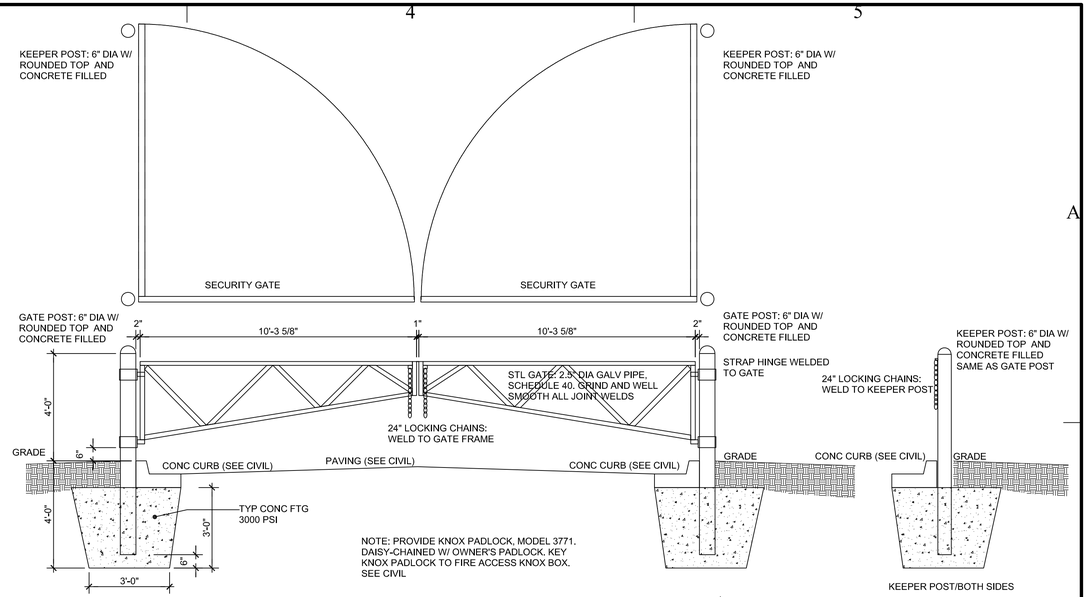


PILASTER: BOTTOM OF STONE CAP

B1 / A5.1

DETAIL: TYP CORNER PILASTER

SCALE: 1" = 1'-0"



B4 / A5.1

DETAIL: TYP SECURITY GATE

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

ALPHA BLDG SET 09-04-2024

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ENLARGED PLAN DETAILS

New Facility
Newton County Enrichment Center

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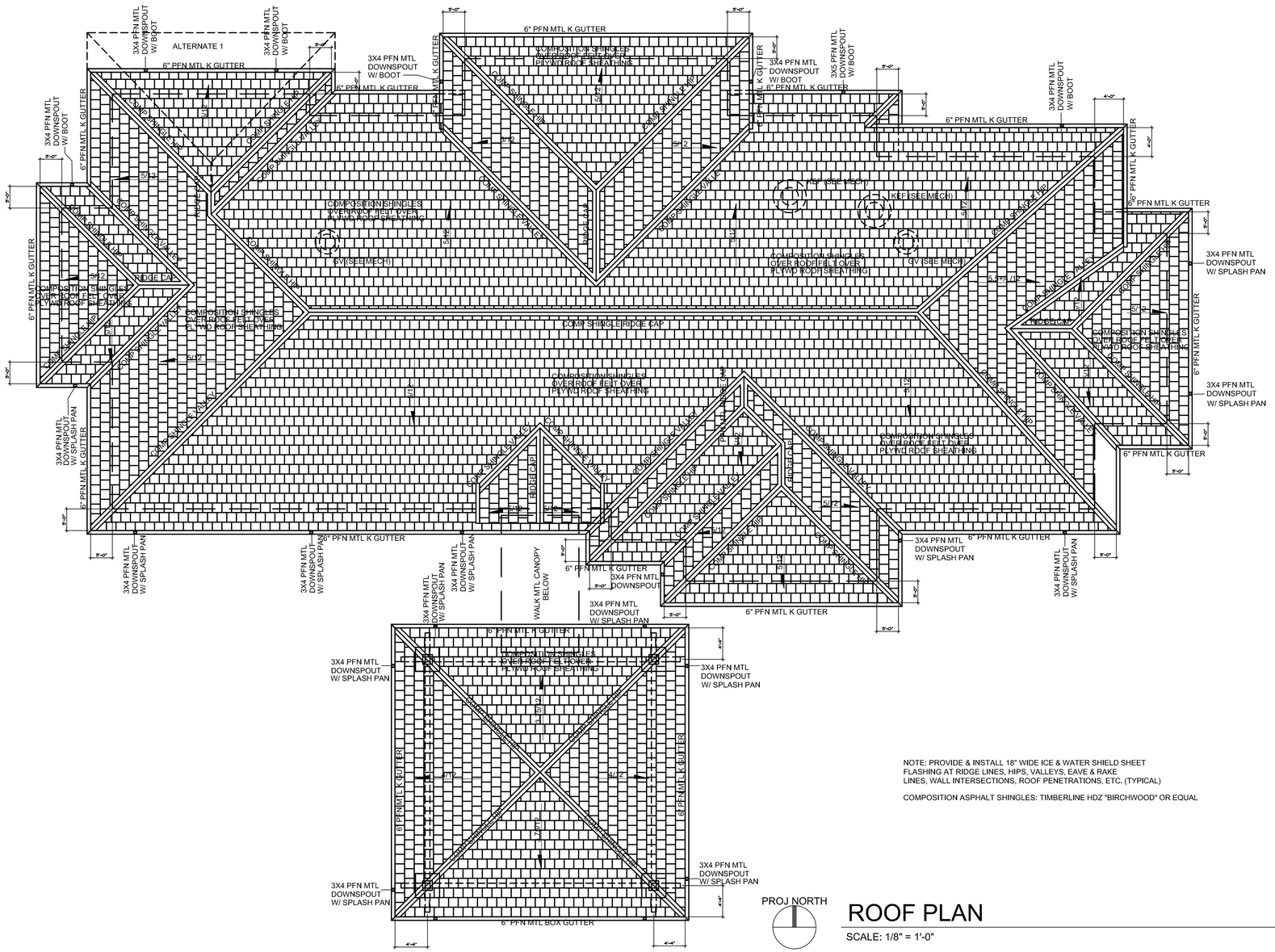
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SHEET

A5.1

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ALPHA BLDG SET 09-04-2024



NOTE: PROVIDE & INSTALL 18" WIDE ICE & WATER SHIELD SHEET FLASHING AT RIDGE LINES, HIPS, VALLEYS, EAVE & RAKE LINES, WALL INTERSECTIONS, ROOF PENETRATIONS, ETC. (TYPICAL)

COMPOSITION ASPHALT SHINGLES: TIMBERLINE HDZ "BIRCHWOOD" OR EQUAL

PROJ NORTH

ROOF PLAN

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

SCALE IN FEET

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ROOF PLAN

New Facility
Newton County Enrichment Center

Richard Chapel Road — Covington, Georgia

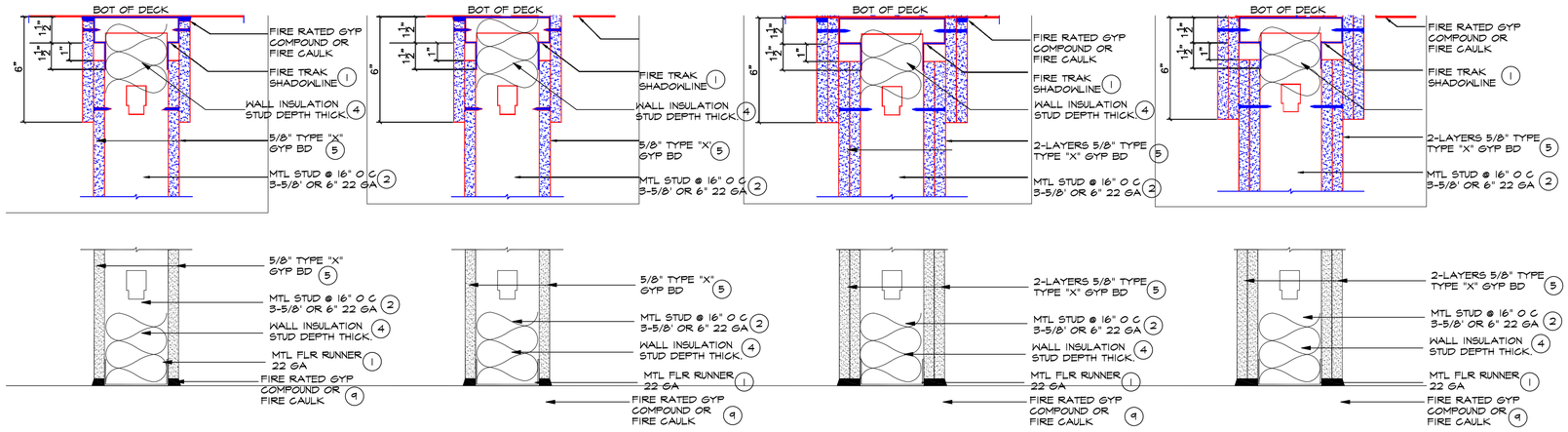
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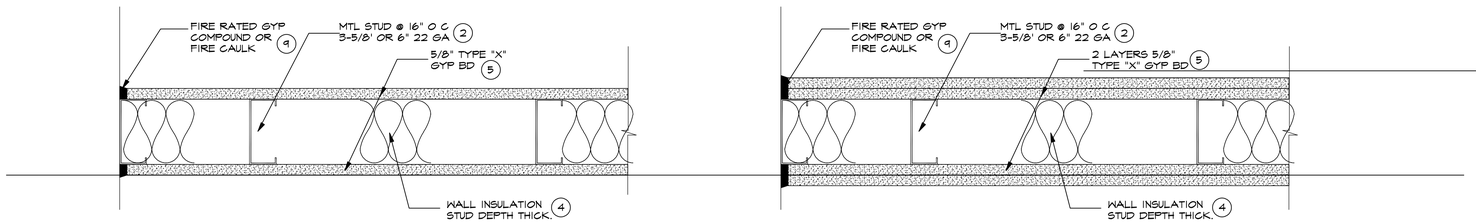
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SHEET

A7.1

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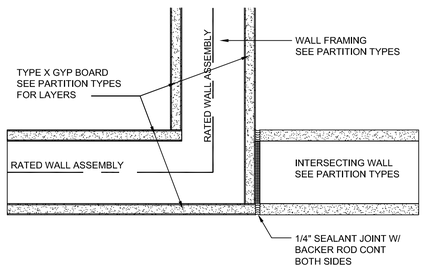


B1 / A7.2 — ONE HOUR RATED PARTITION: UL-U419

NTS

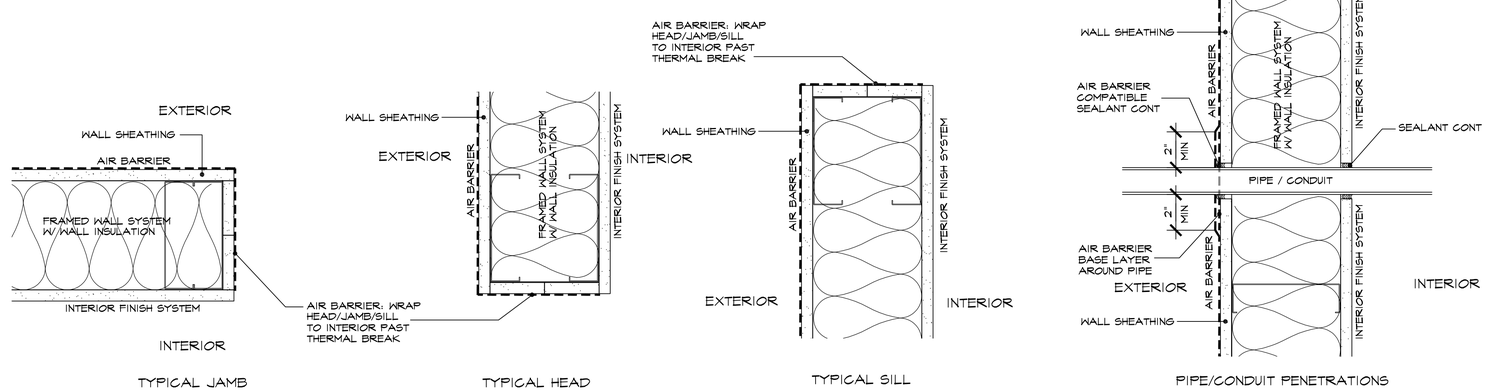
B3 / A7.2 — TWO HOUR RATED PARTITION: UL-U419

NTS



C1 / A7.2 — DETAILS: RATED WALL INTERSECTIONS

SCALE: NTS



TYPICAL JAMB | TYPICAL HEAD | TYPICAL SILL | PIPE/CONDUIT PENETRATIONS

D1 / A7.2 — DETAILS: AIR BARRIER AT WALL OPENINGS & PENETRATIONS

SCALE: NTS

UL RATED WALL CRITERIA: DESIGN NO. U419

NONBEARING WALL RATINGS --- 1 & 2 HOUR

1. FLOOR AND CEILING RUNNERS: CHANNEL SHAPED, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, MINIMUM DEPTH TO ACCOMODATE STUD SIZE, WITH MIN 1 1/4 IN. LONG LEGS, ATTACHED TO FLOOR AND STRUCTURE WITH FASTENERS 24 IN. OC MAX.

2. STEEL STUDS: CHANNEL SHAPED, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, MIN DEPTH AS INDICATED, SPACED A MAX 16 IN. OC. STUDS TO BE 3/8 IN. TO 3/4 IN. LESS THAN ASSEMBLY HEIGHT.

3. WOOD STRUCTURAL PANEL SHEATHING: NOT REQUIRED.

4. BATTS AND BLANKETS: MINERAL WOOL BATTS, FRICTION FITTED BETWEEN STUDS AND RUNNERS. 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

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

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.

TWO LAYER SYSTEMS: FIRST LAYER- 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 16 IN. OC. SECONDLAYER- 1-5/8 IN. LONG FOR 1/2 IN., 5/8 IN. THICK PANELS OR 2-1/4 IN LONG FOR 3/4 IN. THICK PANELS, SPACED 16 IN. OC WITH SCREWS OFFSET 8 IN. FROM FIRST LAYER.

7. FURRING / ADDITIONAL FRAMING: NONE REQUIRED.

8. JOINT TAPE AND COMPOUND VINYL OR CASEINS, 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.

ALPHA BLDG SET 09-04-2024

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ARCHITECT — STATE OF GEORGIA — GARY L. MCNUTT — CERTIFICATE NO. 18810 — REGISTERED ARCHITECT — STAMP INVALID UNLESS SIGNED

CONSULTANT — STAMP INVALID UNLESS SIGNED

CONSULTANT — STAMP INVALID UNLESS SIGNED

SUNBELT BUILDERS

EXTERIOR ENVELOP DETAILS

New Facility
Newton County Enrichment Center
Covington, Georgia
Richard Chapel Road

JOB NO.:	02309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID-CONSTRUCTION
DATE:	04.04.24
REVISIONS:	
1	04.22.24
2	05.24.24
3	07.09.24 VE
4	
5	
6	
7	

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SHEET
A7.2
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				

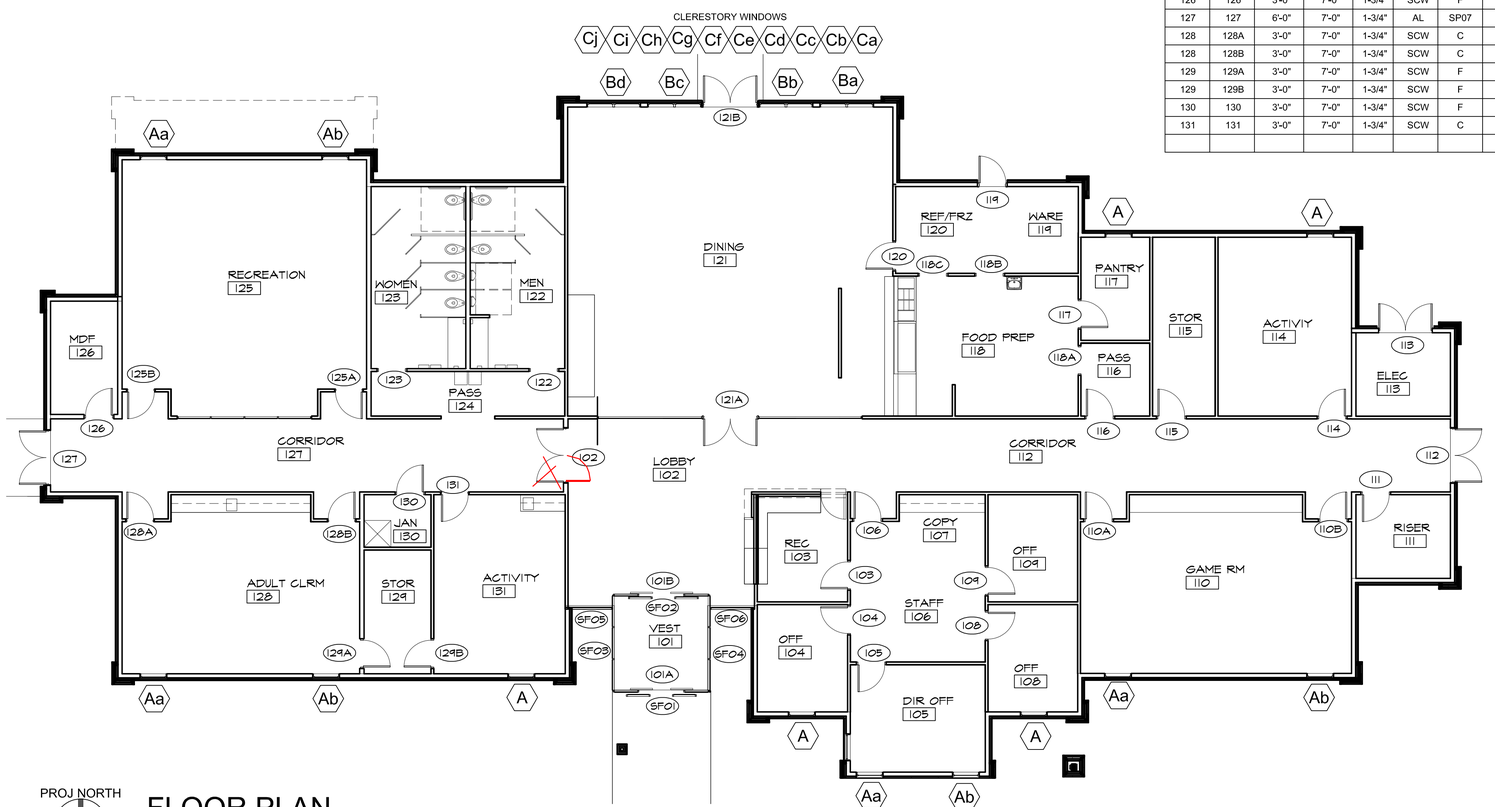
SYMBOL		WINDOW UNIT								TRIM & SILL						DETAILS			FIRE RATING	WDW TRTMT	REMARKS
		R. O. SIZE		UNIT SIZE						WDW TRIM			WDW SILL			SHEET A8.3 U.O.N.					
SPACE	MARK	W	H	W	H	D	TYPE	MAT'L.	FIN	GL.	TYPE	MAT'L.	FIN	TYPE	MAT'L.	FIN	H	J	S			
DETAILS ON SHEET A8.3.2																						
104	A	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD02	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
105	Aa	2'-9 3/4"	5'-8 3/4"	2'-9"	5'/8"	4 1/2"	WD01	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
105	Ab	2'-9 3/4"	5'-8 3/4"	2'-9"	5'-8"	4 1/2"	WD01	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
108	A	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD01	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N /A	STOREFRONT SYSTEM
110	Aa	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD02	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
110	Ab	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD01	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
114	A	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD01	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
117	A	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD02	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
121	Ba	5'-1 3/4"	5'-2 3/4"	5'-1"	5'-2"	4 1/2"	WD03	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C5	D5	N/A	N/A	STOREFRONT SYSTEM
121	Bb	5'-1 3/4"	5'-2 3/4"	5'-1"	5'-2"	4 1/2"	WD03	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C5	D5	N/A	N/A	STOREFRONT SYSTEM
121	Bc	5'-1 3/4"	5'-2 3/4"	5'-1"	5'-2"	4 1/2"	WD03	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C5	D5	N/A	N/A	STOREFRONT SYSTEM
121	Bd	5'-1 3/4"	5'-2 3/4"	5'-1"	5'-2"	4 1/2"	WD03	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C5	D5	N/A	N/A	STOREFRONT SYSTEM
121	Ca	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Cb	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Cc	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Cd	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Ce	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Cf	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Cg	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Ch	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Ci	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
121	Cj	2'-3 3/4"	3'-0 3/4"	2'-3"	3'-0"	4 1/2"	WD04	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B5	C4 SIM	B5	N/A	N/A	STOREFRONT SYSTEM
125	Aa	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD02	AL	FF	GL1	N/A	N/A'	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
125	Ab	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD01	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
128	Aa	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD02	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
128	Ab	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD01	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM
131	A	3'-4 3/4"	5'-8 3/4"	3'-4"	5'-8"	4 1/2"	WD02	AL	FF	GL1	N/A	N/A	N/A	-	SS	FF	B3 SIM	C5	D5	N/A	N/A	STOREFRONT SYSTEM

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							FIRE RAT'G	HDWE.		REMARKS
		SIZE						UND. CUT					DETAILS				HDWE. GRP.	KEY SPACE	
SPACE	MARK	W	H	T	MAT'L.	TYPE	GL.		MAT'L.	DEPTH	TYPE	TRIM TYPE	H	J	S				
101	101A	5'-0"	7'-0"	1-3/4"	AL	SP01	GL7	1/2"	AL	4-1/2"	SP01	N/A	B1/A8.3.2	C1/A8.3.2	D1/A8.3.2	N/A	1.1	EXT	AUTO OPEN ASSEMBLY
101	101B	5'-0"	7'-0"	1-3/4"	AL	SP02	GL7	1/2"	AL	4-1/2"	SP02	N/A	B2/A8.3.2	C2/A8.3.2	D1/A8.3.2	N/A	1.1	101	AUTO OPEN ASSEMBLY
102	102	6'-0"	7'-0"	1-3/4"	SCW	CC	GL7	3/4"	STL	8"	CC	N/A	B2/A8.3.1	C2/A8.3.1	D2/A8.3.1	N/A	2.1	127	PAIR DR ASSEMBLY
103	103	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	3.1	103	-
104	104	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	3.1	106	-
105	105	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	3.1	106	-
106	106	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	3.1	112	-
107	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
108	108	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B3/A8.3.1	C3/A8.3.1	C2/A8.3.1	N/A	3.1	106	-
109	109	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B3/A3.1	C3/A8.3.1	D2/A8.3.1	N/A	3.1	106	-
110	110A	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B3/A8.3.1	C3A8.3.1	D2/A8.3.1	N/A	4.1	112	-
110	110B	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	4.1	112	-
111	111	3'-0"	7'-0"	1-3/4"	SCW	F	N/A	3/4"	STL	8"	F	N/A	B2/A8.3.1	C2/A8.3.1	D2/A8.3.1	N/A	5.1	112	-
112	112	6'-0"	7'-0"	1-3/4"	AL	SF07	GL7	1/2"	AL	4-1/2"	SF07	N/A	B3/A8.3.2	C3/A8.3.2	D3/A8.3.2	N/A	1.2	EXT	-
113	113	6'-0"	7'-0"	1-3/4"	STL	AA	N/A	1/2"	STL	8"	AA	N/A	B1/A8.3.1	C1/A8.3.1	D1/A8.3.1	N/A	1.4	EXT	PAIR DR ASSEMBLY
114	114	3'-0"	7'-0"	1-3/4"	SCW	C	1/4 T	3/4"	STL	8"	C	N/A	B2/A8.3.1	C2/A8.3.1	D2/A8.3.1	N/A	114	112	-
115	115	3'-0"	7'-0"	1-3/4"	SCW	F	GL7	3/4"	STL	8"	F	N/A	B2/A8.3.1	C2/A8.3.1	D2/A8.3.1	3/4 HR	5.1	112	-
116	116	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	8"	C	N/A	B2/A8.3.1	C2/A8.3.1	D2/A8.3.1	N/A	4.1	112	-
117	117	3'-0"	7'-0"	1-3/4"	SCW	F	N/A	3/4"	STL	5-3/4"	F	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	5.1	118	-
118	118A	3'-0"	7'-0"	-	-	-	-	-	STL	5-3/4"	E	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	N/A	N/A	FRAME ONLY
118	118B	3'-0"	7'-0"	N/A	N/A	N/A	N/A	N/A	STL	5-3/4"	E	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	N/A	N/A	FRAME ONLY
118	118C	3'-0"	7'-0"	N/A	N/A	N/A	N/A	N/A	STL	5-3/4"	E	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	N/A	N/A	FRAME ONLY
119	119	3'-0"	7'-0"	1-3/4"	STL	B	GL-7	1/2"	STL	7-3/4"	B	N/A	B5/A8.3.2	C5/A8.3.2	D3/A8.3.2	N/A	1.3	EXT	
120	120	3'-0"	7'-0"	1-3/4"	SCW	F	N/A	3/4"	STL	5-3/4"	F	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	4.2	121	-
121	121A	6'-0"	7'-0"	1"	GL	AG-1	1/2" ST	1/2"	GL	N/A	N/A	N/A	B5/A8.3.1	C5/A8.3.1	D5/A8.3.1	N/A	1.1	103	ALL-GLASS SYSTEM
121	121B	6'-0"	7'-0"	1-3/4"	AL	SP07	GL7	1/2"	AL	4-1/2"	SP07	N/A	B4/A8.3.2	C4/A8.3.2	D3/A/8.3.2	N/A	1.2	EXT	-
122	122	3'-0"	7'-0"	N/A	N/A	N/A	N/A	N/A	STL	5-3/4"	E	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	N/A	N/A	N/A	FRAME ONLY
123	123	3'-0"	7'-0"	N/A	N/A	N/A	N/A	N/A	STL	5-3/4"	E	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	3/4 HR	5.1	128	-
129	129B	3'-0"	7'-0"	1-3/4"	SCW	F	GL7	3/4"	STL	5-3/4"	F	N/A	B3/A8.3.1	C3/A8.3.1	D2/A8.3.1	3/4 HR	5.1	131	-
130	130	3'-0"	7'-0"	1-3/4"	SCW	F	N/A	3/4"	STL	5-3/4"	F	N/A	B2/A8.3.1	C2/A8.3.1	D2/A8.3.1	3/4 HR	5.1	127	-
131	131	3'-0"	7'-0"	1-3/4"	SCW	C	GL7	3/4"	STL	5-3/4"	C	N/A	B2/A8.3.1	C2/A8.3.1	D2/A8.3.1	N/A	4.1	127	-



PROJ NORTH

FLOOR PLAN

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

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.

ALPHA BLDG SET 09-04-2024

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.

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ARCHITECT

STATE OF GEORGIA
GARY L. MOUTT
CERTIFICATE NO. 38310
REGISTERED ARCHITECT
STAMP INVALID UNLESS SIGNED

CONSULTANT

STAMP INVALID UNLESS SIGNED

CONSULTANT

STAMP INVALID UNLESS SIGNED

SUNBELT BUILDERS

DOOR, WINDOW & FRAME SCHEDULES

New Facility Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

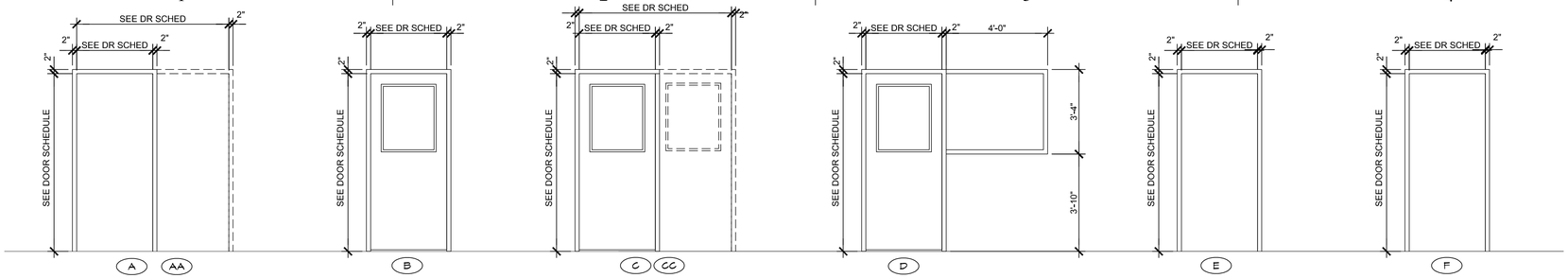
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DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID-CONSTRUCTION
DATE:	04.04.24
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OF 1 2 3



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

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

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

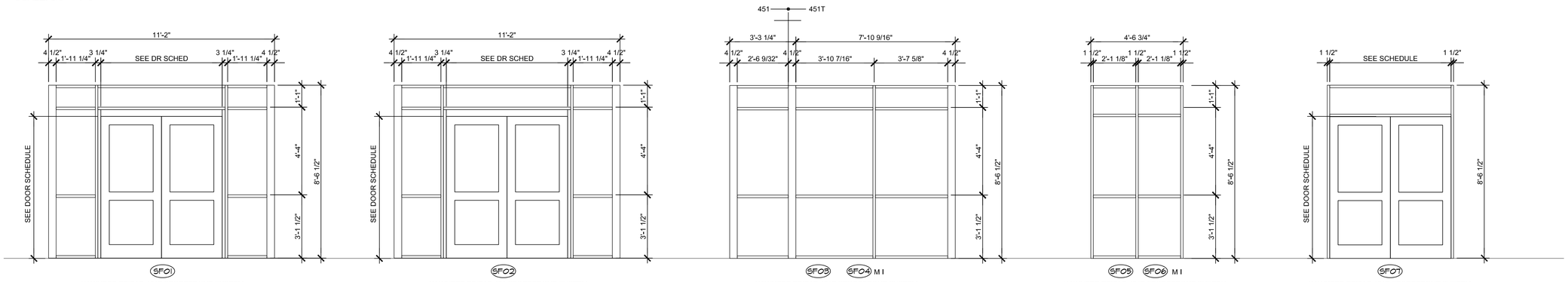
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INT. DOORS: SOLID-CORE WOOD, WDMA 1.S.1-A, HEAVY DUTY

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

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

DOOR & FRAME ELEVATIONS

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



KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES
STANLEY DURA-CARE 7200 AUTO ENTRANCE SYSTEM

KAWNEER TRIFAB 451 STOREFRONT SYSTEM
CAPTIONED 4 SIDES
STANLEY DURA-CARE 7200 AUTO ENTRANCE SYSTEM

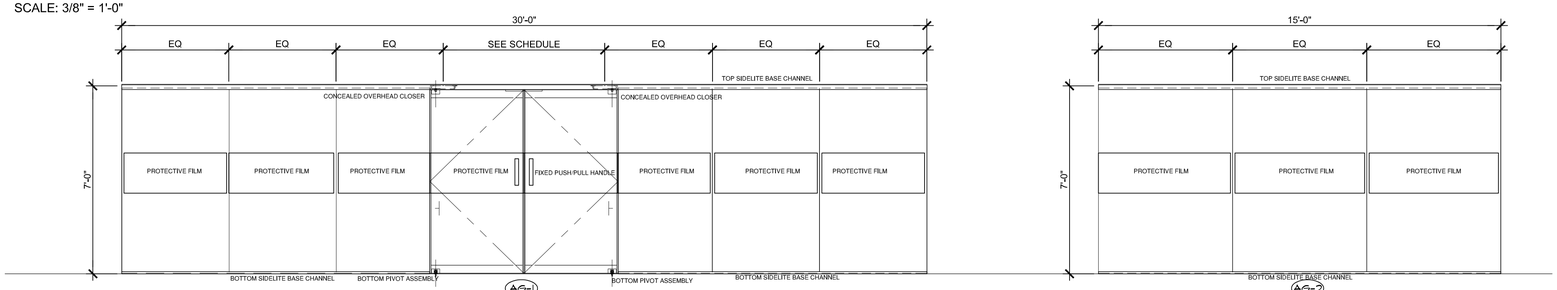
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KAWNEER TRIFAB 451 STOREFRONT SYSTEM
CAPTIONED 4 SIDES

KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES

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

STOREFRONT DOOR & FRAME ELEVATIONS

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

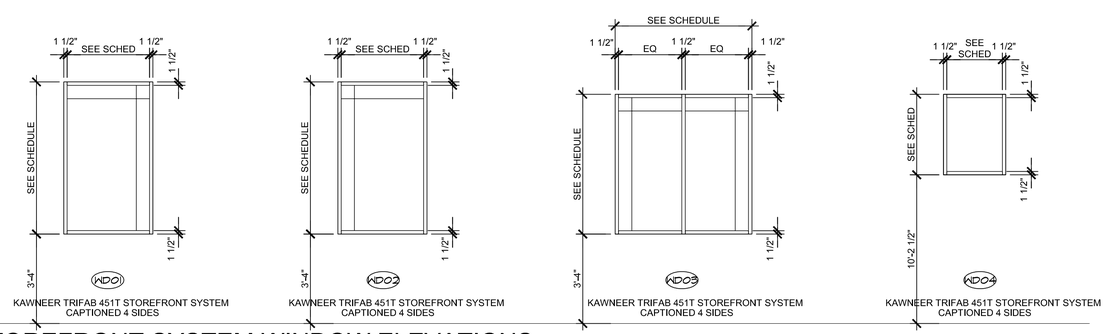


COMMERCIAL ALL-GLASS DOOR & SIDELIGHT SYSTEM.
C L LAURENCE BLUMCRAFT 1301 ENTRANCE SYSTEM
250 ENTRY DOORS, BRUSHED STAINLESS STEEL

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C L LAURENCE BLUMCRAFT 1301 ENTRANCE SYSTEM
250 ENTRY DOORS, BRUSHED STAINLESS STEEL

ALL-GLASS STOREFRONT ELEVATIONS

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



KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES

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CAPTIONED 4 SIDES

KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES

KAWNEER TRIFAB 451T STOREFRONT SYSTEM
CAPTIONED 4 SIDES

STOREFRONT SYSTEM WINDOW ELEVATIONS

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

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SUNBELT BUILDERS

DOOR, WINDOW & FRAME SCHEDULES

New Facility
Newton County Enrichment Center

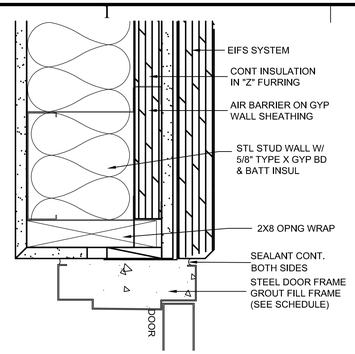
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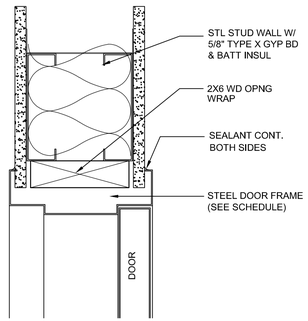
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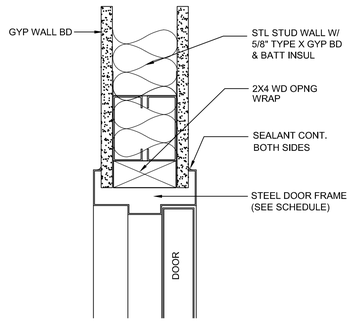
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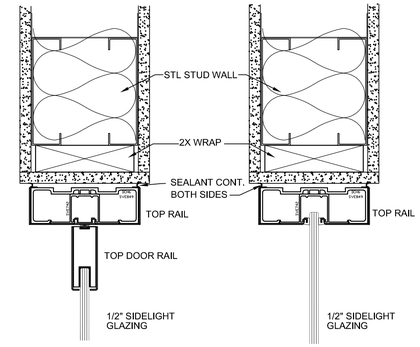
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SCALE: 3" = 1'-0"



B2 / A8.3.1 — HEAD
SCALE: 3" = 1'-0"

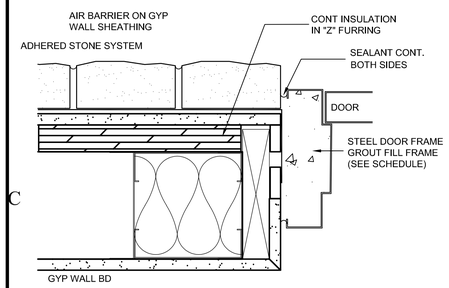


B3 / A8.3.1 — HEAD
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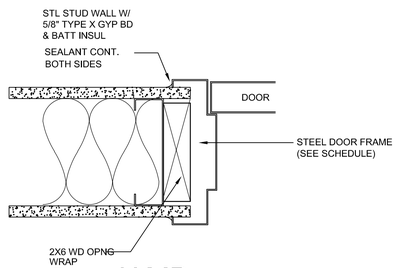


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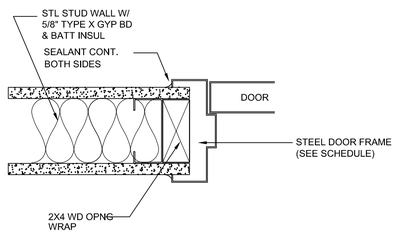
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SCALE: 3" = 1'-0"



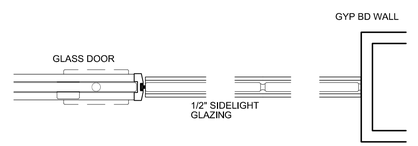
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SCALE: 3" = 1'-0"



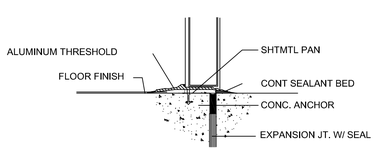
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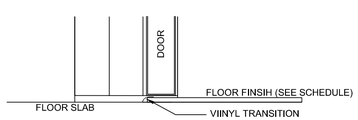
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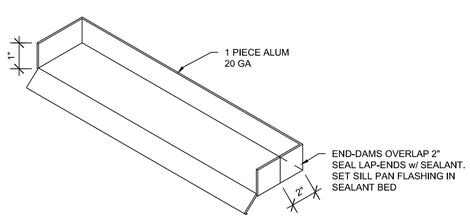
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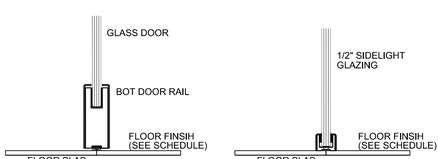
D1 / A8.3.1 — SILL
SCALE: 3" = 1'-0"



D2 / A8.3.1 — SILL
SCALE: 3" = 1'-0"



D3 / A8.3.1 — TYP SILL PAN
SCALE: 3" = 1'-0"



D5 / A8.3.1 — SILL
SCALE: 3" = 1'-0"

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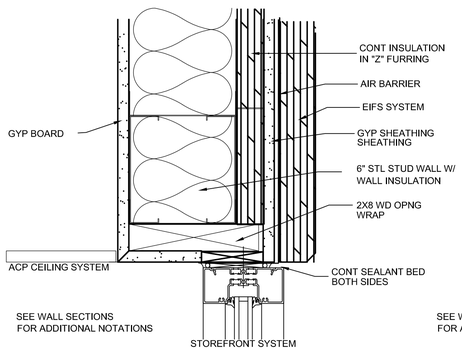
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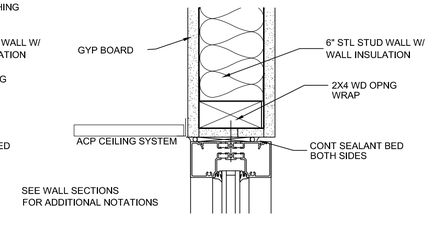
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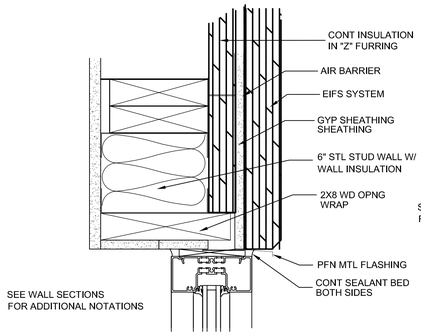
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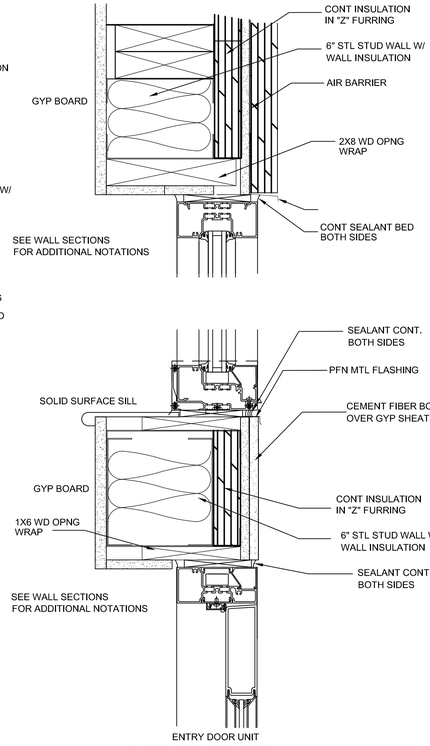
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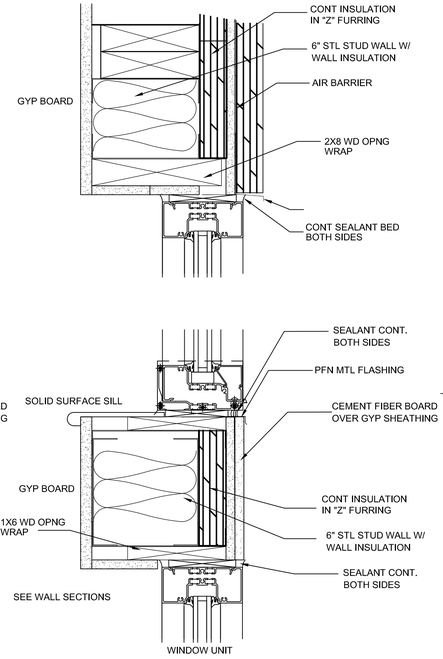
B2 A8.3.2 **HEAD**
SCALE: 3" = 1'-0"



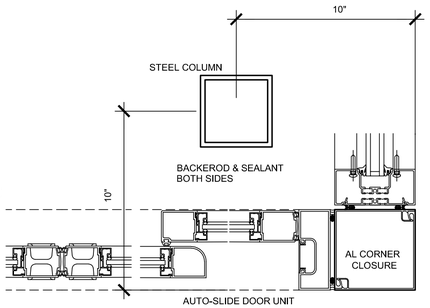
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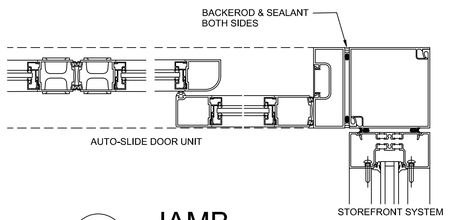
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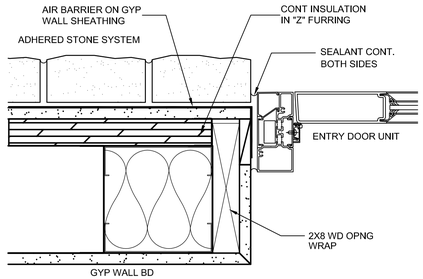
B5 A8.3.2 **HEAD/SILL**
SCALE: 3" = 1'-0"



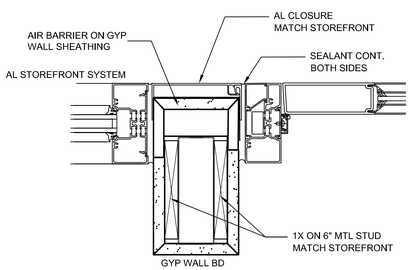
C1 A8.3.2 **JAMB**
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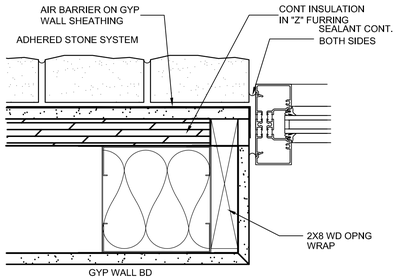
C2 A8.3.2 **JAMB**
SCALE: 3" = 1'-0"



C3 A8.3.2 **JAMB**
SCALE: 3" = 1'-0"

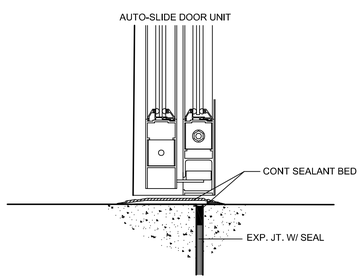


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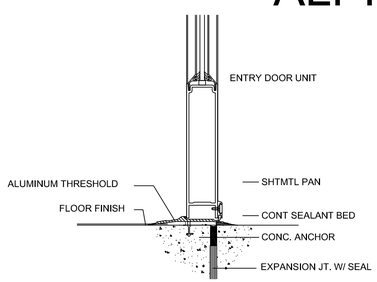


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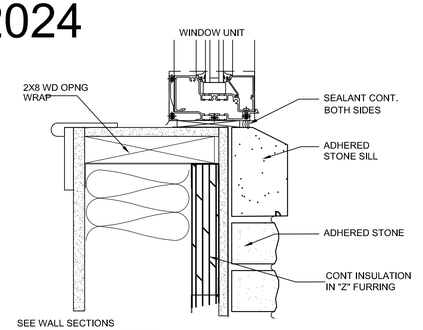
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SCALE: 3" = 1'-0"



D2 A8.3.2 **SILL**
SCALE: 3" = 1'-0"

D3 A8.3.2 **SILL**
SCALE: 3" = 1'-0"

D4 A8.3.2 **SILL**
SCALE: 3" = 1'-0"



D5 A8.3.2 **SILL**
SCALE: 3" = 1'-0"

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OF 1 2 3

FINISH SCHEDULE - FIRST FLOOR

ABBREVIATIONS:

ACP	ACOUSTICAL CEILING PANELS	EPT	ENAMEL PAINT	IHP	INTERIOR HIGH PERFORMANCE COATING	RCP	REFLECTED CEILING PLAN	UND.	UNDERLAYMENT BOARD
BRK	BRICK	EHP	EXTERIOR HIGH PERFORMANCE COATING	IPT	INTERIOR PAINT SYSTEM	SHTG	SHEATHING	VRN	VARNISH
CFT	CERAMIC FLOOR TILE	EPT	EXTERIOR PAINT SYSTEM	MAR	MARBLE	SLT	SLATE	VCT	VINYL COMPOSITION TILE
CWT	CERAMIC WALL TILE	ES	EXPOSED STRUCTURE	N/A	NOT APPLICABLE (NONE)	S	STAIN	VS	VINLY SHEET FLOORING
CMU	CONCRETE MASONRY UNIT	FF	FACTORY FINISH	PC	POLISHED CONCRETE	SR	STEEL RAILING	WC	WALL COVERING
CPT	CARPET	GBB	GYPSUM BACKING BOARD	PLAS.	PLASTER	SFS	STOREFRONT SYSTEM	WD.	WOOD
CPT-T	CARPET TILE	GFP	GLASS FIBER PANEL	PT.	PAINT	SS	SOLID SURFACE MATERIAL	WOM	WALK OFF MAT
CS	CONC. SEALER	GYP	GYPSUM BOARD	PLYWD.	PLYWOOD.	STN	STONE	WP	WOOD PANEL
CONC.	CONCRETE	GYP.X	GYPSUM BOARD, TYPE "X"	QT	QUARRY TILE	TRZ	TERRAZZO	LVT	LUXURY VINYL TILE
CPNL	COOLER PANEL	HPC	HIGH PERFORMANCE COATING	RB	RUBBER BASE	U	UNFINISHED		

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

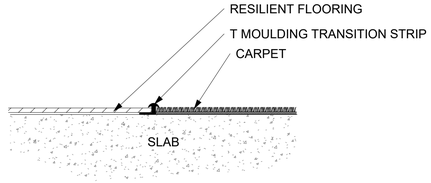
SPACE		FLOOR		BASE			WAINSCOT				WALLS								CEILING				REMARKS
											NORTH		EAST		SOUTH		WEST						
RM.NO.	ROOM NAME	MAT'L.	FIN	MAT'L.	FIN	TYPE	MAT'L.	FIN	TYPE	C.R. TYPE	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	HEIGHT	CORN TYPE	
FIRST FLOOR																							
101	VESTIBULE	WOM	FF	-	-	-	-	-	-	-	SFS	FF	SFS	FF	SFS	FF	SFS	FF	GYPX	PT	11'-0"	-	WALK-OFF MAT
102	LOBBY/RECEPTION	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	WD/GYPX	PT	VARIES	-	
103	RECEPTION	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	WD/GYPX	PT	VARIES	-	
104	OFFICE	CPT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
105	EXEC. DIR. OFFICE	CPT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
106	STAFF MEETING	CPT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
107	COPY	CPT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
108	OFFICE	CPT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
109	OFFICE	CPT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
110	GAME ROOM	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	
111	RISER RM	CONC	CS	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	CMU	PT	GYPX	PT	ACP	FF	9'-0"	-	
112	CORRIDOR	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	
113	MAIN ELEC.	CONC	CS	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
114	ACTIVITY ROOM	LVT	PC	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	
115	STORAGE	CONC	CS	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
116	EQUIP. STORAGE	IHP	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	SW RESURFLOR
117	PANTRY	IHP	FF	IHP	FF	-	-	-	-	-	GYPX	PT	SR	PT	SR	PT	SR	PT	ACP	FF	10'-0"	-	SW RESURFLOR
118	FOOD PREP	IHP	FF	IHP	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	SW RESURFLOR
119	WAREWASHING	IHP	FF	IHP	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	SW RESURFLOR
120	REFS/FRZRS	IHP	FF	IHP	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	SW RESURFLOR
121	DINING ROOM	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	WD/GYPX	PT	VARIES	-	
122	MEN'S RESTROOM	CFT	FF	CWT	FF	-	-	-	-	-	CWT	FF	CWT	FF	CWT	FF	CWT	FF	GYPX	PT	9'-0"	-	
123	WOMEN'S RESTROOM	CFT	FF	CWT	FF	-	-	-	-	-	CWT	FF	CWT	FF	CWT	FF	CWT	FF	GYPX	PT	9'-0"	-	
124	R. PASSAGE	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
125	RECREATION	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	
126	MDF	CONC	CS	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
127	CORRIDOR	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	
128	ADULT LARGE CLASSROOM	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	
129	STORAGE	CONC	CS	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
130	JAN. CLOS.	CONC	CS	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	9'-0"	-	
131	ACTIVITY ROOM	LVT	FF	RB	FF	-	-	-	-	-	GYPX	PT	GYPX	PT	GYPX	PT	GYPX	PT	ACP	FF	10'-0"	-	

FINISH LEGEND

- POLISHED CONCRETE
- CERAMIC FLOOR TILE
- CARPET TILE
- VINYL COMPOSITION TILE

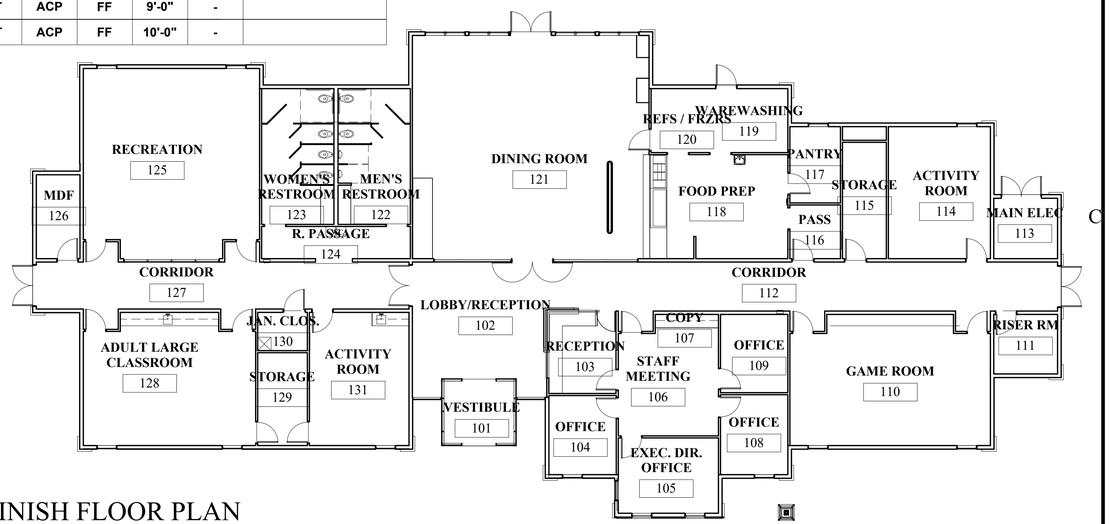
ALPHA BLDG SET

09-04-2024



B4 / A9.1 — TYP. THRESHOLD DTL. LVT TO CPT

SCALE: 6" = 1'-0"



FINISH FLOOR PLAN

SCALE: 3/32" = 1'-0"

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ARCHITECT — STATE OF GEORGIA · GARY L MCNUTT · CERTIFICATE NO. 8370 · REGISTERED ARCHITECT · STAMP INVALID UNLESS SIGNED

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Covington, Georgia
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FINISH SCHEDULES, FINISH FLOOR PLAN & DETAILS

New Facility
Newton County Enrichment Center

Richard Chapel Road, Covington, Georgia

JOB NO.:	2309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE
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SHEET

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OF 5

RCP LEGEND

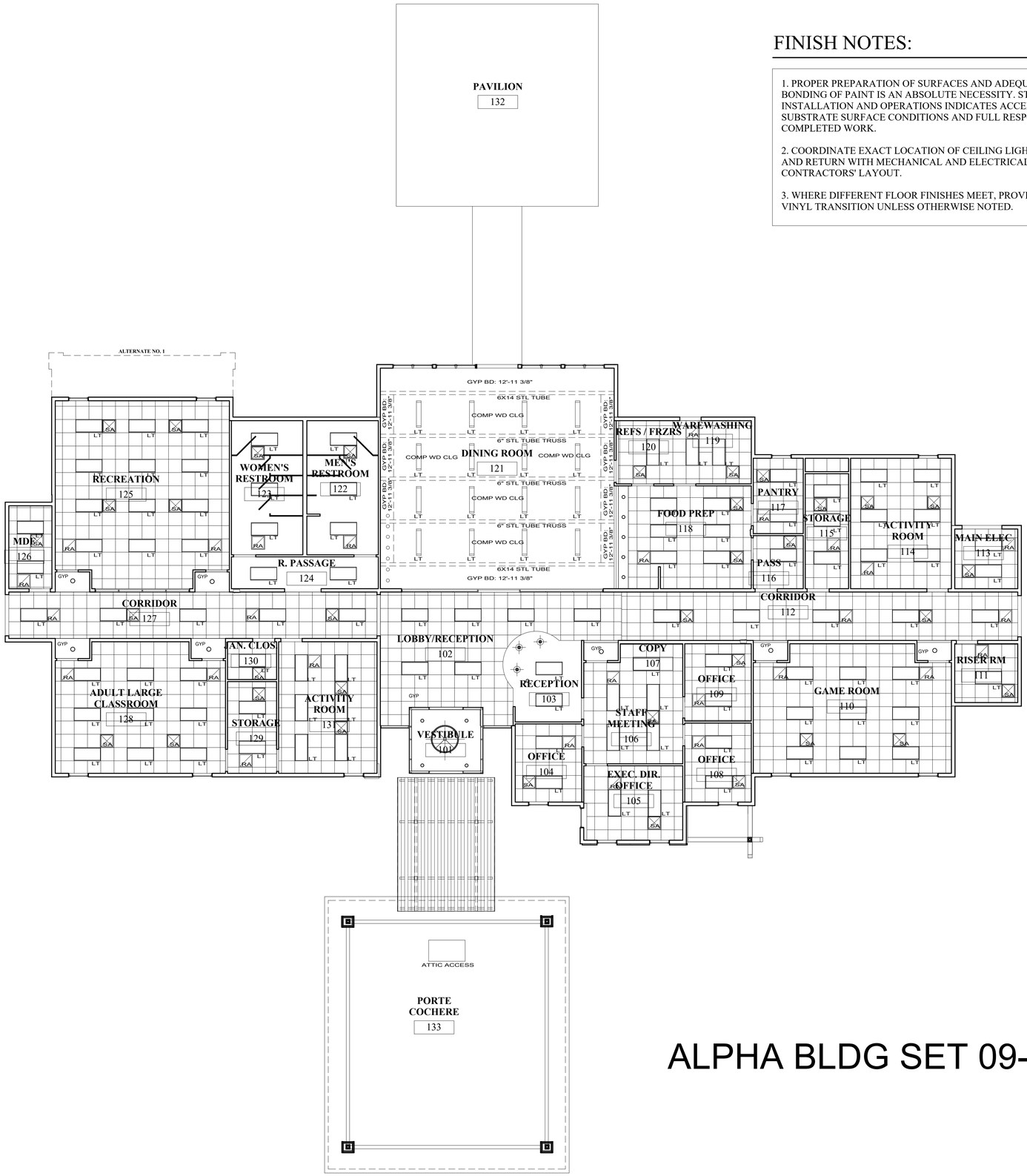
- 2X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- NEW SUPPLY AIR (SEE MECH LAYOUT)
- NEW RETURN AIR (SEE MECH LAYOUT)
- NEW EXHAUST FAN
- NEW LINEAR PENDANT LIGHT FIXTURE
- NEW LARGE ROUND PENDANT LIGHT FIXTURE

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. COORDINATE EXACT LOCATION OF CEILING LIGHTS, CEILING SUPPLY AND RETURN WITH MECHANICAL AND ELECTRICAL SUB-CONTRACTORS' LAYOUT.

3. WHERE DIFFERENT FLOOR FINISHES MEET, PROVIDE & INSTALL VINYL TRANSITION UNLESS OTHERWISE NOTED.



ALPHA BLDG SET 09-04-2024

PROJ NORTH

REFLECTED CEILING PLAN

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

0' 4' 8'
SCALE IN FEET

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REFLECTED CEILING PLAN

New Facility
Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

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REVISIONS:	

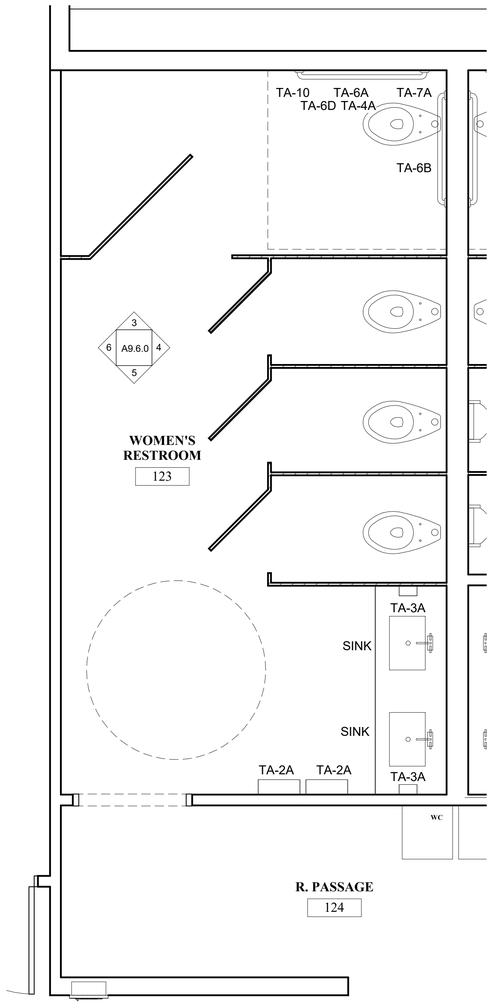
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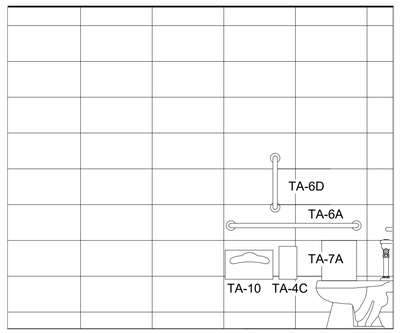
SHEET
A9.3
OF 5

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	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

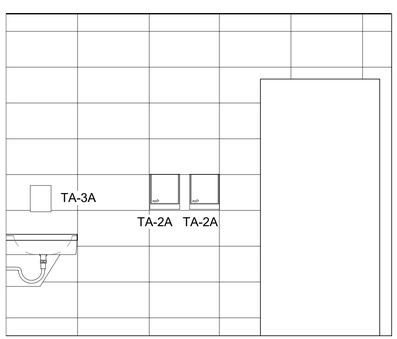
SIGNAGE NOTE:

SIGNAGE FOR RESTROOMS SHALL BE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS. SIGN SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. 2010 ADA STANDARD FOR ACCESSIBLE DESIGN. ALL SIGNAGE BY GENERAL CONTRACTOR.





NORTH: WOMEN'S RESTROOM 123



SOUTH: WOMEN'S RESTROOM 123

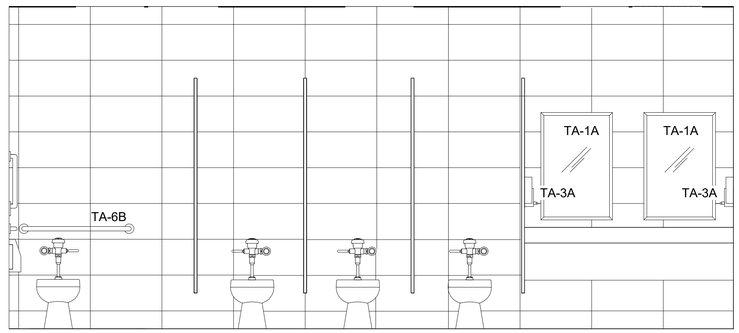
C2 / A9.6.0 — ENLARGED PLAN: WOMEN'S RESTROOM 123

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

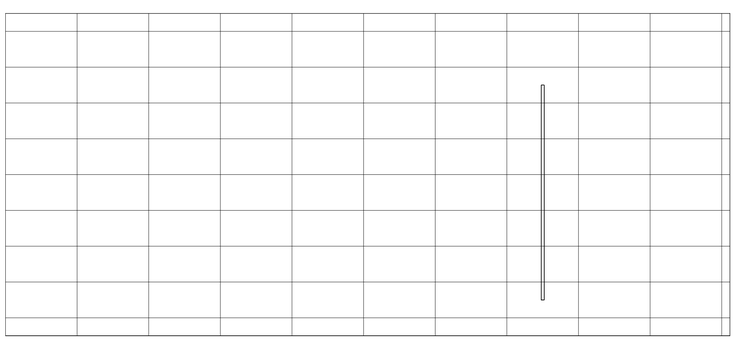
C1 / A9.6.0 — WOMEN'S RESTROOM - INTERIOR ELEVATIONS

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

ALPHA BLDG SET 09-04-2024



EAST: WOMEN'S RESTROOM 123



WEST: WOMEN'S RESTROOM 123

C3 / A9.6.0 — WOMEN'S RESTROOM - INTERIOR ELEVATIONS

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

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30014

INTERIOR ELEVATIONS - WOMEN'S RESTROOM

New Facility
Newton County Enrichment Center

Richard Chapel Road
Covington, Georgia

JOB NO.:	2309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE
REVISIONS:	
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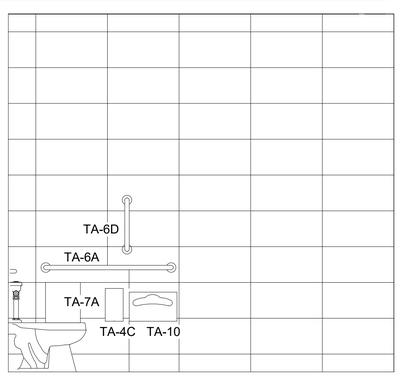
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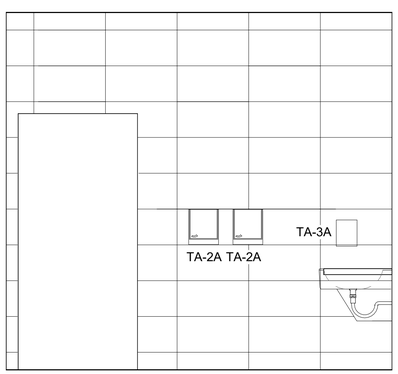
ACCESSORY SCHEDULE	
TA-1A	MIRROR UNIT: 24X36
TA-1B	MIRROR UNIT: CUSTOM SIZE
TA-2A	PAPER TOWEL DISPENSER (FOLDED)
TA-2B	PAPER TOWEL DISPENSER (ROLLED)
TA-3A	SOAP DISPENSER
TA-4A	TOILET TISSUE DISPENSER (ROLLED)
TA-4B	COMBINATION TOILET TISSUE DISPENSER (ROLLED)
TA-4C	TOILET TISSUE DISPENSER (FOLDED)
TA-4D	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	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

SIGNAGE NOTE:

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NORTH: MEN'S RESTROOM 1232

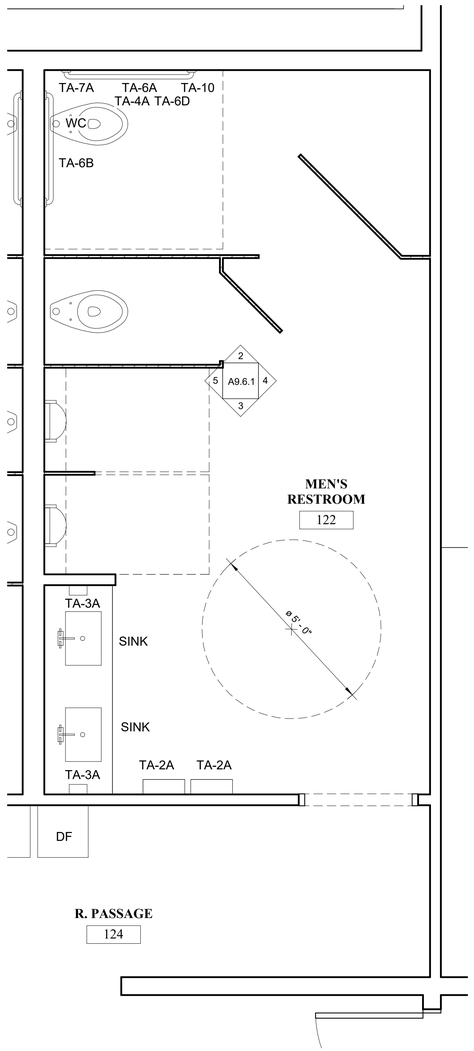


SOUTH: MEN'S RESTROOM 122

C1 A9.6.1

MEN'S RESTROOM - INTERIOR ELEVATIONS

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

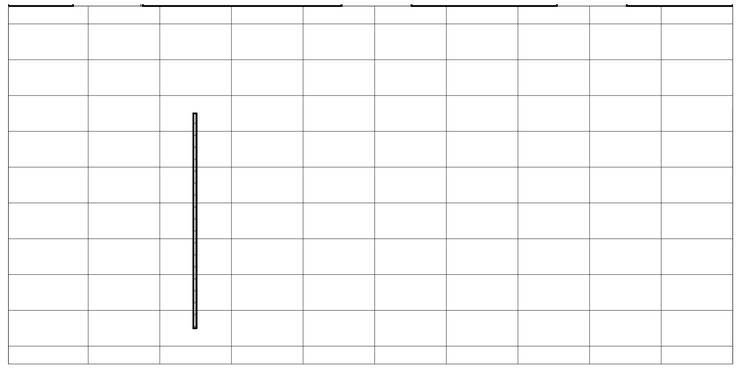


C2 A9.6.1

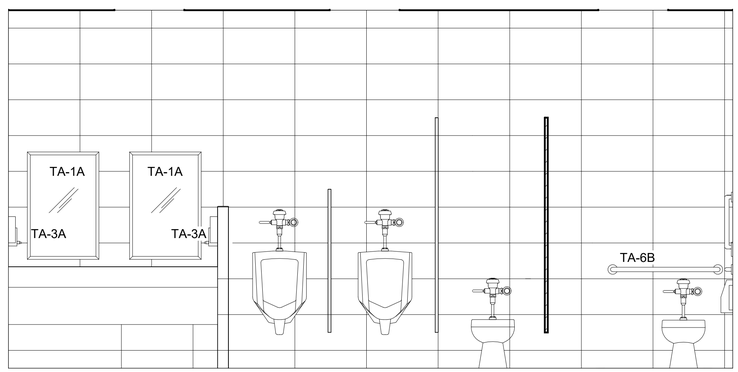
ENLARGED PLAN: MEN'S RESTROOM 122

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

ALPHA BLDG SET 09-04-2024



EAST: MEN'S RESTROOM 122



WEST: MEN'S RESTROOM 122

C3 A9.6.1

MEN'S RESTROOM - INTERIOR ELEVATIONS

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

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INTERIOR ELEVATIONS - MEN'S RESTROOM

New Facility
Newton County Enrichment Center

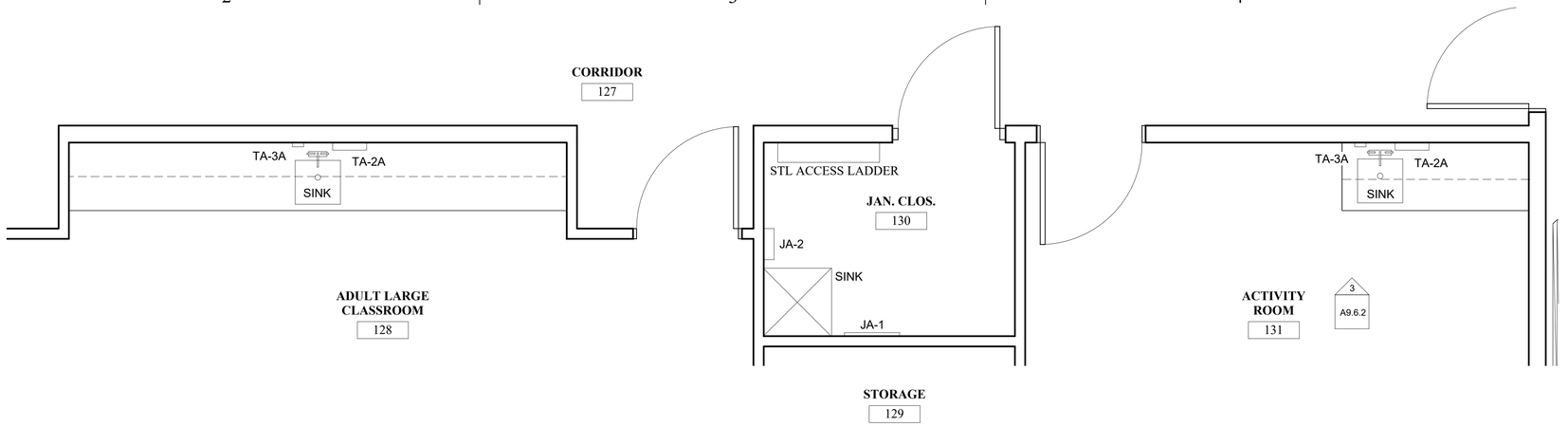
Richard Chapel Road
Covington, Georgia

JOB NO.:	2309
DRAWN BY:	GM
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SHEET
A9.6.1
OF 5

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)
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TA-4A	TOILET TISSUE DISPENSER (ROLLED)
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TA-4C	TOILET TISSUE DISPENSER (FOLDED)
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JA-1	MOP AND BROOM HOLDER
JA-2	PAPER TOWEL DISPENSER



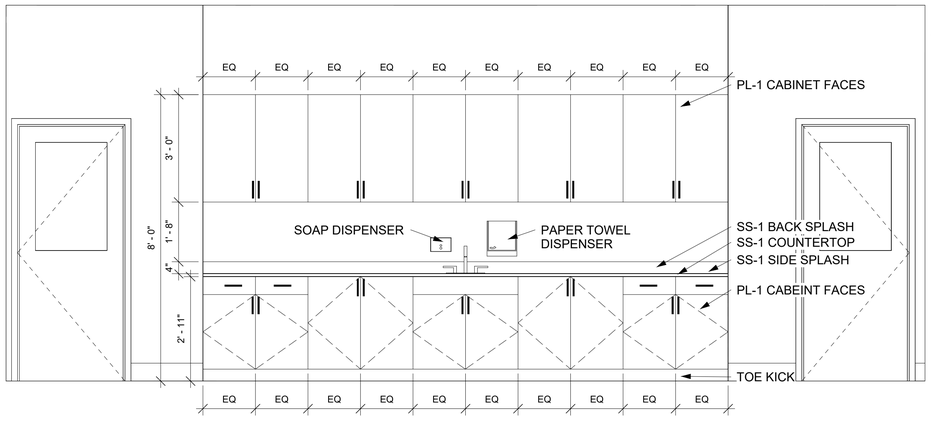
A2 / A9.6.2

ENLARGED PLAN: ADULT LARGE CLASSROOM 128 / JAN. CLOS. 130 / ACTIVITY ROOM 131

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

SIGNAGE NOTE:

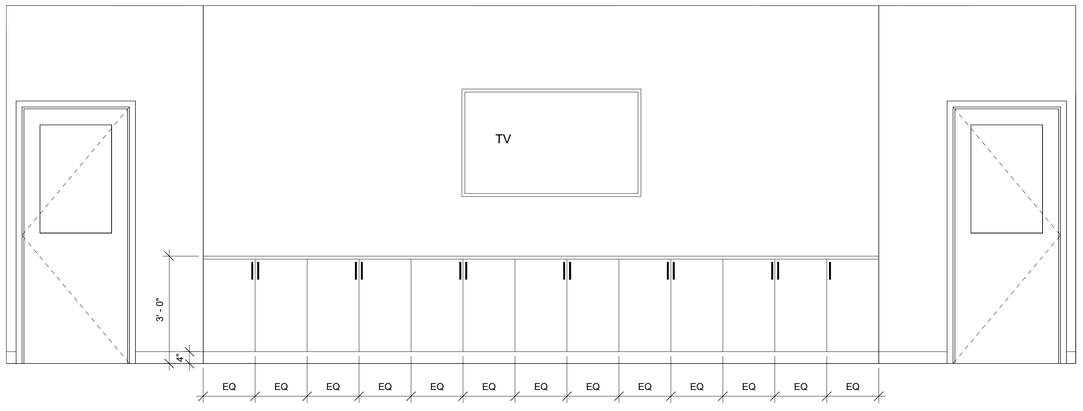
SIGNAGE FOR RESTROOMS SHALL BE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS. SIGN SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 INCHES ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. 2010 ADA STANDARD FOR ACCESSIBLE DESIGN. ALL SIGNAGE BY GENERAL CONTRACTOR.



B3 / A9.6.2

INTERIOR ELEVATION - ADULT LARGE CLASSROOM 128

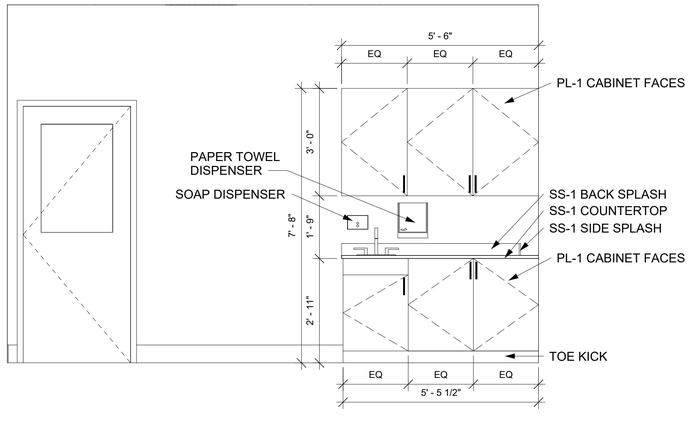
SCALE: 1/2" = 1'-0"



C1 / A9.6.2

INTERIOR ELEVATIONS - GAME ROOM 110

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



C3 / A9.6.2

INTERIOR ELEVATIONS - ACTIVITY ROOM 131

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

ALPHA BLDG SET 09-04-2024

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INTERIOR ELEVATIONS

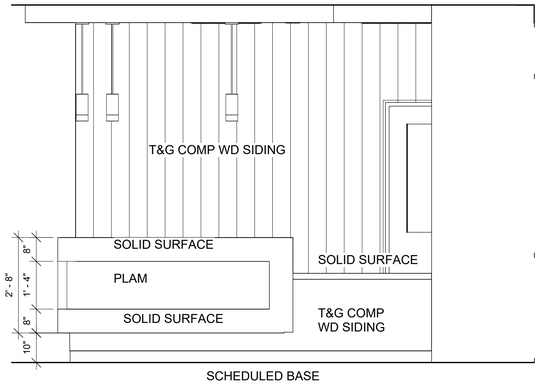
New Facility
Newton County Enrichment Center

Richard Chapel Road
Covington, Georgia

JOB NO.:	2309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE
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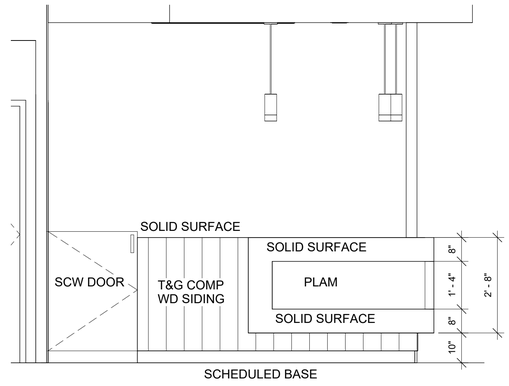
SHEET
A9.6.2
OF 5



A1 — INTERIOR ELEVATIONS: RECEPTION DESK - EAST

A9.6.3

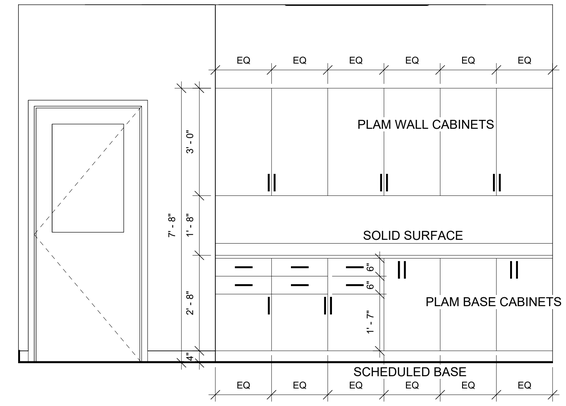
SCALE: 1/2" = 1'-0"



A3 — INTERIOR ELEVATIONS: RECEPTION DESK - SOUTH

A9.6.3

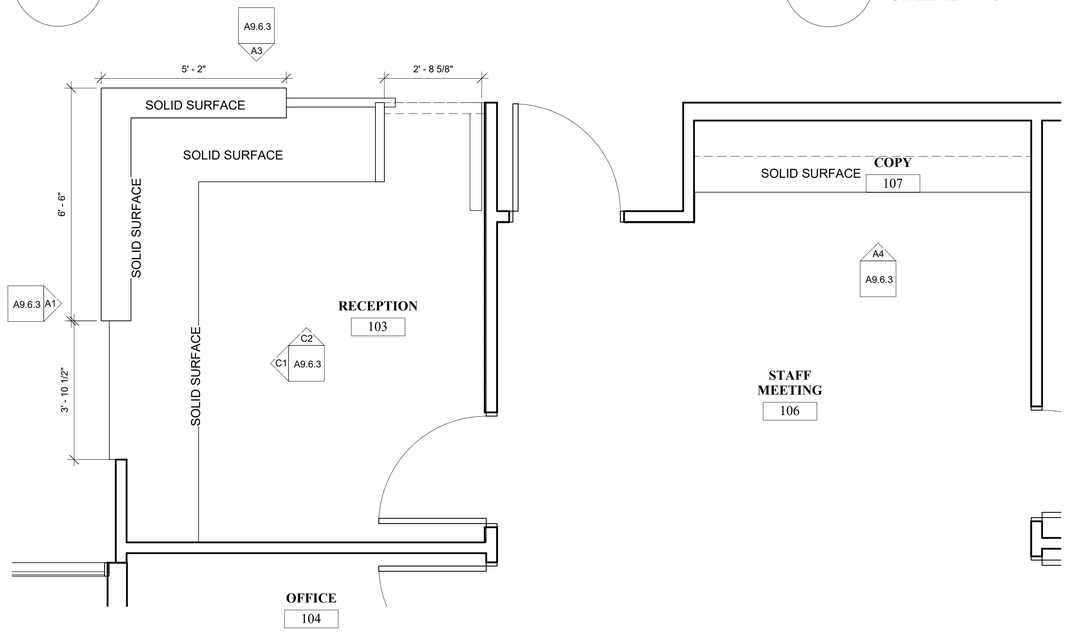
SCALE: 1/2" = 1'-0"



A4 — INTERIOR ELEVATIONS: COPY 107

A9.6.3

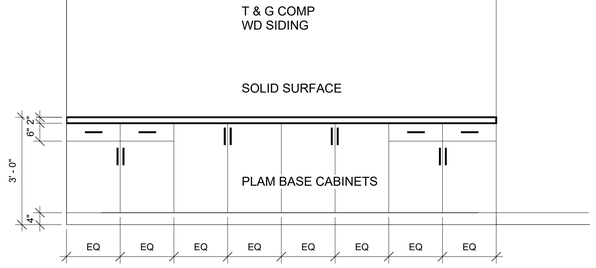
SCALE: 1/2" = 1'-0"



B1 — ENLARGED PLAN: RECEPTION 103 / COPY 107

A9.6.3

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



C3 — ENL PLAN: DRINK STATION

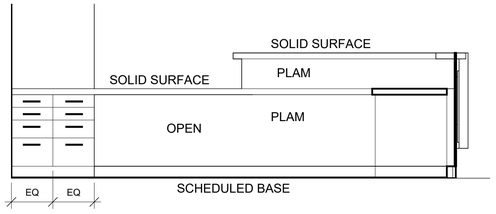
A9.6.3

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

B4 — INT ELEVATION: DRINK STATION

A9.6.3

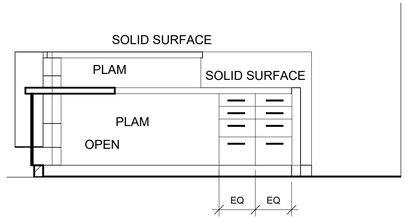
SCALE: 1/2" = 1'-0"



C1 — INT ELEVATION: RECEPTION WEST

A9.6.3

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



C2 — INT ELEVATION: RECEPTION WEST

A9.6.3

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

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INTERIOR ELEVATIONS

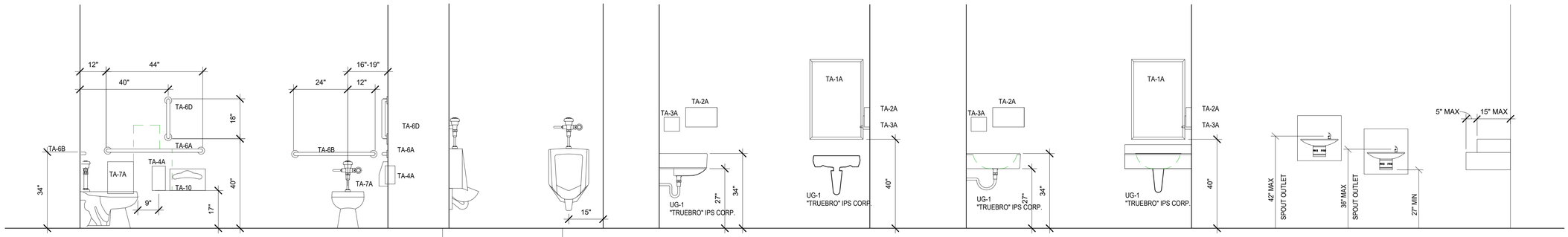
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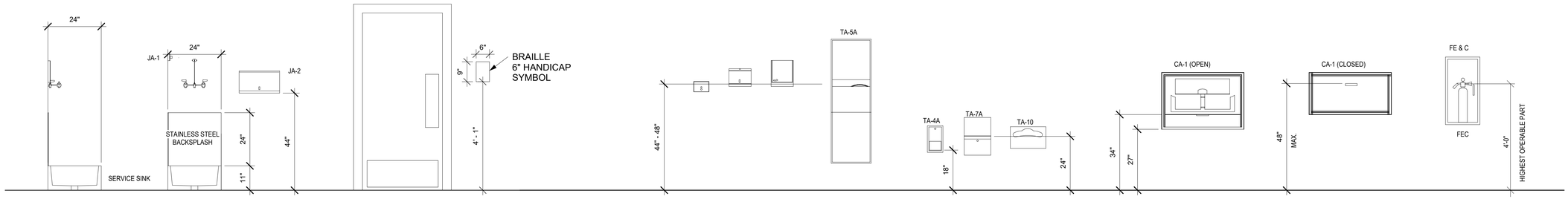
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SHEET
A9.6.3
OF 5



TYPICAL ACCESSIBLE TOILET | TYPICAL ACCESSIBLE URINAL | TYPICAL ACCESS WALL MOUNT SINK | TYPICAL ACCESS WALL LAVATORY | DRINKING FOUNTAIN ELEVATIONS TYP.



MOP SINK ELEVATION TYP. | TYPICAL ADA TOILET FACILITY SIGNS | TYPICAL MOUNTING & LOCATION OF ACCESSORIES

INTERIOR ELEVATIONS: MOUNTING & LOCATION REQUIREMENTS

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



ADA TOILET FACILITY SIGN: WOMEN'S



ADA TOILET FACILITY SIGN: MEN'S

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	HAND DRYER
CA-1	CHANGING STATION
CA-2	CHILD PROTECTION SEAT
UG-1	UNDERLAVATORY GUARDS - "TRUEBRO" IPS CORP.
JA-1	MOP AND BROOM HOLDER
JA-2	PAPER TOWEL DISPENSER

ALPHA BLDG SET 09-04-2024

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INTERIOR ELEVATIONS - MOUNTING & LOCATION REQUIREMENTS

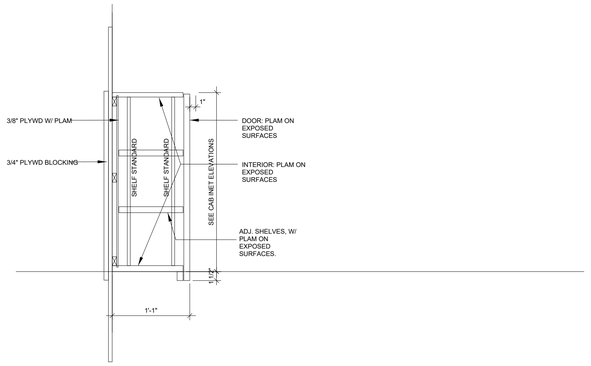
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Richard Chapel Road
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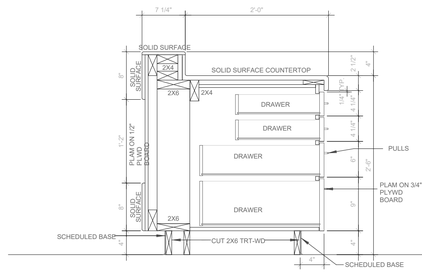
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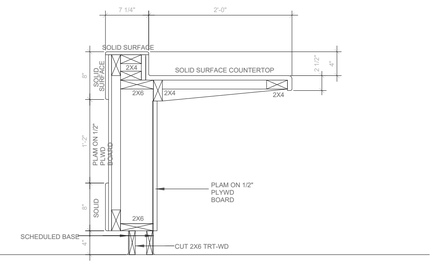
SHEET
A9.6.4
OF 5



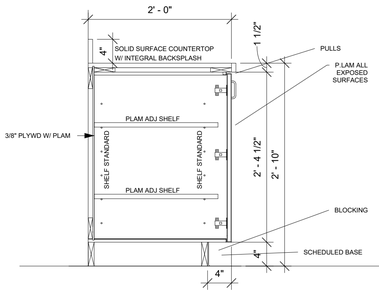
SECTION THROUGH UPPER UNIT
ADULT LG. CLASSROOM 128 / ACTIVITY ROOM 131 / COPY 107



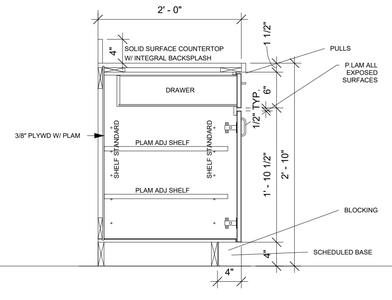
SECTION THROUGH DRAWER UNIT
RECEPTION 103



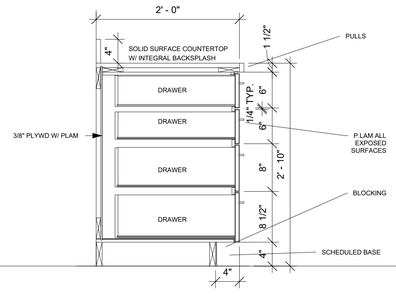
SECTION THROUGH OPEN UNIT
RECEPTION 103



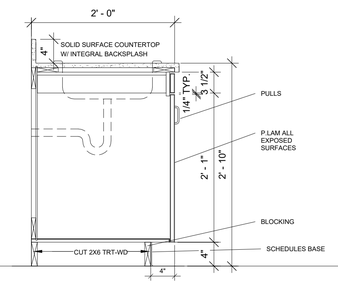
SECTION THROUGH SHELVING UNIT
ADULT LG. CLASSROOM 128 / ACTIVITY ROOM 131 / COPY 107



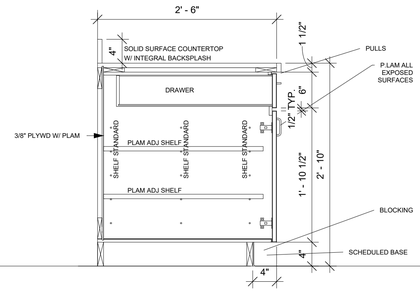
SECTION THROUGH DRAWER/SHELVING UNIT
ADULT LG CLASSROOM 128 / ACTIVITY ROOM 131 / COPY 107



SECTION THROUGH DRAWER UNIT



SECTION THROUGH SINK UNIT
ADULT LG CLASSROOM 128 / ACTIVITY ROOM 131

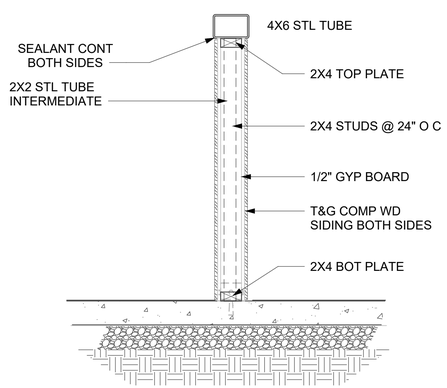


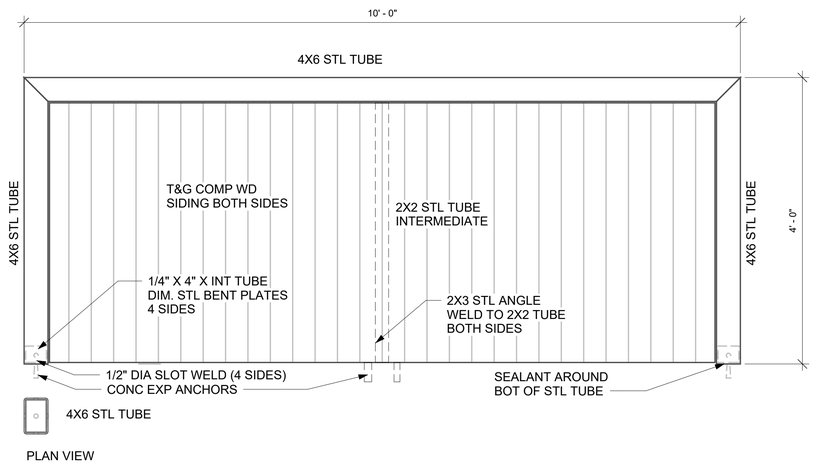
SECTION THROUGH DRINK STATION DRAWER/SHELF UNIT
DINING ROOM 121

A1 CABINETS DETAILS

A9.7.1

SCALE: 1" = 1'-0"





PLAN VIEW

B1 SECTION DETAIL - LOW WALL - DINING ROOM

A9.7.1

SCALE: 1" = 1'-0"

ALPHA BLDG SET 09-04-2024

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CABINETRY DETAILS & SECTION DETAILS

New Facility
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SHEET
A9.7.1
OF 5

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 2018 INTERNATIONAL BUILDING CODE, WITH GEORGIA AMENDMENTS.

5. DESIGN LOADS:

   LIVE LOAD INFORMATION
   - A. ROOF LIVE LOAD (REDUCED FOR TRIBUTARY AREA) = 20 PSF
   - B. EQUIP PLATFORM FLOOR LIVE LOAD = 60 PSF

   EQUIPMENT PLATFORM FLOOR DEAD LOADING INFORMATION
   - A. 10.0 PSF WOOD STRUCTURAL FRAMING, DECKING AND SHEETROCK CEILING BELOW
   - B. 6.0 PSF COLLATERAL LOAD (LIGHTS, HVAC, SPRINKLER, ETC.)
   - C. SEE FRAMING PLAN FOR OTHER CONCENTRATED LOADS

   ROOF DEAD LOADING INFORMATION
   - A. 10.0 PSF ENGINEERED TRUSSES, DECKING
   - B. 3.0 PSF 1 LAYERS 5/8" GYP-BOARD CEILING
   - C. 6.0 PSF COLLATERAL LOAD (LIGHTS, HVAC, SPRINKLER, ETC.)
   - D. 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 = 110 MPH
   - B. ASD WIND SPEED = 85 MPH
   - C. WIND IMPORTANCE FACTOR (IW) = 1.0
   - D. RISK CATEGORY = II
   - E. WIND EXPOSURE = C
   - F. INTERNAL PRESSURE COEFFICIENT = +/- 0.18
   - G. COMPONENTS AND CLADDING = SEE SCHEDULE BELOW

   SEISMIC DESIGN INFORMATION
   - A. SEISMIC IMPORTANCE FACTOR (IE) = 1.0
   - B. SEISMIC DESIGN CATEGORY = B
   - C. 0.2 SECOND SPECTRAL RESPONSE ACCELERATION (SS) = 0.172
   - D. 1 SECOND SPECTRAL RESPONSE ACCELERATION (S1) = 0.081
   - E. 0.2 DESIGN SPECTRAL RESPONSE ACCELERATION (SDS) = 0.183
   - F. 1 DESIGN SECOND SPECTRAL RESPONSE ACCELERATION (SD1) = 0.13
   - G. SITE CLASS = D
   - 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 - COLD FORM STEEL STUDS SHEAR WALLS.
   - N. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE
   - O. SEISMIC RISK CATEGORY = II

   RAIN INTENSITY FACTOR = 4.0 INCHES PER HOUR

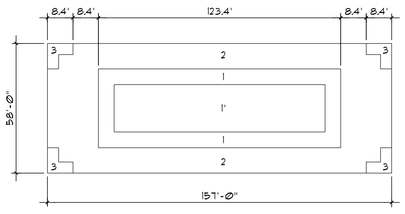
6. ALL THE SAFETY REGULATIONS, METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING, AND FRAMEWORK, ETC. AS REQUIRED.

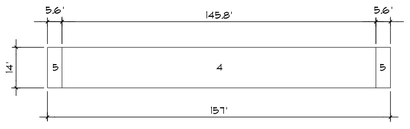
7. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER FOR CLARIFICATION.

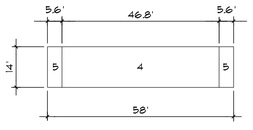
8. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.

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.







ZONE	10 FT²	100 FT²	200 FT²	500 FT²
1	+16 -40.6	+16 -31.7	+16 -29.0	+16 -25.5
1'	+16 -23.3	+16 -23.3	+16 -16	+16 -16
2	+16 -53.3	+16 -42.1	+16 -38.6	+16 -34.1
3	+16 -72.9	+16 -50.1	+16 -43.2	+16 -34.1
4	+23.2 -25.2	+20.9 -22.8	+18.8 -20.8	+17.5 -19.4
5	+23.2 -31.1	+20.9 -26.3	+18.8 -22.1	+17.5 -19.4

COMPONENTS AND CLADDING SCHEDULE (A S0.0)
SCALE: N.T.S.

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' 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. SPACES 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.

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 308 "COLD WEATHER CONCRETING"

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. COLD FORM STEEL STUD SHEAR WALLS
   - E. STRUCTURAL STEEL
   - F. LIGHT GAUGE METAL FRAMING
   - G. 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.

FOUNDATIONS

1. THE FOUNDATION IS DESIGNED USING AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF BASED ON 2018 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.

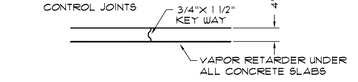
7. IF REQUIRED BY THE GEOTECHNICAL REPORT OR THE ON-SITE GEOTECHNICAL ENGINEER, THE GROUND WATER TABLE SHALL BE LOWERED.

8. ALL FOOTINGS TO BE CENTERED UNDER THE COLUMNS OR WALLS THEY SUPPORT, UNLESS NOTED OTHERWISE ON THE DRAWING.

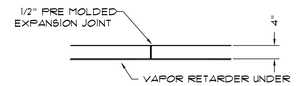
9. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL IN WRITING. THE CONTRACTOR SHALL LOCATE ANY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION.

10. INSPECTIONS BY GEOTECH FIRM ARE REQUIRED FOR EXISTING SOILS CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS:

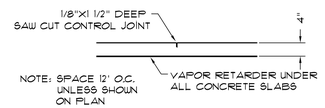
    - A. SITE PREPARATION: PRIOR TO PLACEMENT OF PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.
    - B. FILL PLACEMENT: DURING PLACEMENT AND COMPACTION OF FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE PROPER 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.



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.

ALPHA BLDG SET 09-04-2024

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7-12-2024
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GENERAL NOTES

New Facility
Newton County Enrichment Center

Richard Chapel Road, Covington, Georgia

JOB NO.:	02309
DRAWN BY:	DWW
CHECKED BY:	GDK
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE
REVISIONS:	
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SHEET
S0.0
OF

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	57	25	50	24	45
5	36		31		28	
6	43		37		34	
7	63	72	54	62	49	56
8	72		62		56	
9	81		70		63	
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"

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 U.N.O. THE WELD SHALL BE 1/4" WELD 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 LL 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.

COLD-FORMED STEEL STUD FRAMING

1. ALL COLD-FORMED STRUCTURAL STEEL MEMBERS, ACCESSORIES, AND CONNECTIONS SHALL BE DESIGNED BY PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PROJECT LOCATION IN ACCORDANCE WITH THE REFERENCED CODE. DESIGN SHALL BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS". ALL COLD-FORMED STEEL STUD FRAMING SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). THE INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM 1003 (OR ASTM-A653). WELDS SHALL BE TOUCHED UP WITH A ZINC RICH PROTECTIVE PAINT FOR CORROSION RESISTANCE. STRUCTURAL STEEL STUDS SHALL HAVE A MINIMUM THICKNESS OF 33 MILS AND SHALL HAVE A MINIMUM YIELD STRENGTH 33 KSI.

COLD-FORMED STEEL STRUCTURAL MEMBERS

THICKNESS (MILS)	GAUGE		THICKNESS (MILS)	GAUGE
33	20		68	14
43	18		97	12
54	16		118	10

3. STEEL STUD DESIGNER SHALL PROVIDE SEALED SHOP DRAWINGS SHOWING DESIGN CRITERIA, MEMBER SIZE AND SPACING, HEADER AND JAMB CONDITIONS, CONNECTIONS BETWEEN MEMBERS AND TO THE BUILDING STRUCTURE.
4. UNLESS SPECIFIED BY FINISH OR GLAZING SYSTEM MANUFACTURER'S MORE STRINGENT REQUIREMENTS (GENERAL CONTRACTOR TO COORDINATE), DESIGN SERVICEABILITY DUE TO LATERAL OR VERTICAL LOADS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
    A. BRICK VENEER = L/600 VERTICAL, L/480 LATERAL
    B. EXTERIOR INSULATION AND FINISH SYSTEM (EFIS) = L/240
    C. STUCCO = L/360
5. "C" SHAPED STUDS AND JOISTS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1 5/8" WITH A MINIMUM RETURN LIP OF 3/8"= TRACKS SHALL HAVE A MINIMUM OUTSTANDING LEG OF 1 1/4"
6. ALL STRUCTURAL MEMBERS SHALL BE CONTINUOUS FULL LENGTH. SPLICING OF MEMBERS IS NOT PERMITTED UNLESS SPECIFICALLY DETAILED BY THE STUD DESIGNER.
7. SCREWS SHALL BE SELF DRILLING WITH A LENGTH THAT ENSURES THREE EXPOSED THREADS BEYOND PENETRATION OF THE JOINED MATERIAL. MINIMUM SCREW SPACING SHALL BE 3/4". MINIMUM EDGE DISTANCE SHALL BE 3/8". SCREW CAPACITIES SHALL BE EQUAL TO OR GREATER THAN THOSE GIVEN BY THE STEEL STUD MANUFACTURER'S ASSOCIATION WITH A 3.0 FACTOR OF SAFETY.
8. PROVIDE SEISMIC BRACING AND DETAILS IN CONFORMANCE WITH IBC SECTION 1621. LATERAL BRACING AT THE TOP OF INTERIOR WALLS AND CEILING GRIDS SHALL BE AT 48" ON CENTER MAXIMUM.
9. ALL COLD FORMED STEEL FRAMING ACCESSORIES OR BASIC CLIPS SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M) G-60 GALVANIZED COATING. PREFERRED MANUFACTURER: THE STEEL NETWORK, INC.
10. WHERE STUDS BYPASS STRUCTURE (FLOOR AND ROOF) OR ATTACH TO THE BOTTOM OF THE STRUCTURE, DEFLECTION CONNECTIONS SHALL ALLOW FOR POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB USING STEP-BUSHING TECHNOLOGY TO PROVIDE FRICTIONLESS, VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICC ES REPORT (ESR-1623) OR EQUIVALENT COMPLYING WITH ICC ACCEPTANCE CRITERIA AC261. ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M). VERTICLIP® OR VERTITRACK® BY THE STEEL NETWORK, INC ARE ACCEPTABLE PRODUCTS TO MEET THIS CRITERIA.
11. LATERAL DRIFT CLIPS ARE TO PROVIDE POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB USING STEP-BUSHING TECHNOLOGY TO PROVIDE FRICTIONLESS LATERAL AND VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICC ES REPORT (ESR-2049) OR EQUIVALENT COMPLYING WIT LATERAL AND VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICC ES REPORT (ESR-2049) OR EQUIVALENT COMPLYING WITH STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M). DRIFTCLIP® OR DRIFTTRAK® BY THE STEEL NETWORK, INC ARE ACCEPTABLE PRODUCTS TO MEET THIS CRITERIA.
12. RIGID CONNECTIONS FOR ATTACHMENT OF METAL FRAMING TO METAL FRAMING AND TO THE PRIMARY STRUCTURE SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M). STIFFCLIP® SERIES BY THE STEEL NETWORK INCLUDES ACCEPTABLE PRODUCTS TO MEET THIS CRITERIA.
13. DESIGN BRIDGING CLIPS TO PROVIDE ATTACHMENT TO STUD WEB AND WRAPPING AROUND THE BRIDGING CHANNEL. BRIDGING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M). BRIDGECLIP® AND BRIDGEBAR® BY THE STEEL NETWORK ARE ACCEPTABLE PRODUCTS TO MEET THIS CRITERIA.
14. FRAMING OF WALL OPENINGS SHALL INCLUDE HEADERS AND SUPPORTING STUDS AS RECOMMENDED BY THE STUD MANUFACTURER CONTRACTORS OPTION: JAMSTUD® BY THE STEEL NETWORK, INC TO REDUCE OR ELIMINATE BUILT-UP FRAMING IN JAMBS, HEADERS, AND SILLS. USE STIFFCLIP® HE OR STIFFLCLIP® AL TO ELIMINATE JACK STUDS.
15. LIGHT GAUGE STRAPS ON BOTH SIDES OF THE WALL ARE REQUIRED TO PROVIDE SHEAR RESISTANCE FOR SHEAR WALL FRAMING. THE STEEL NETWORK, INC. STIFFWALL® SW-S IS AN ACCEPTABLE PRODUCT TO MEET THIS CRITERIA.

ALPHA BLDG SET 09-04-2024

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Project No: 24-088

CONSULTANT

GEORGIA REGISTERED No. PE011263 PROFESSIONAL ENGINEER GARRY VAN TOMPEN
7-12-2024

GENERAL NOTES

New Facility Newton County Enrichment Center

Richard Chapel Road, Covington, Georgia

JOB NO.:	02309
DRAWN BY:	DWW
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DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
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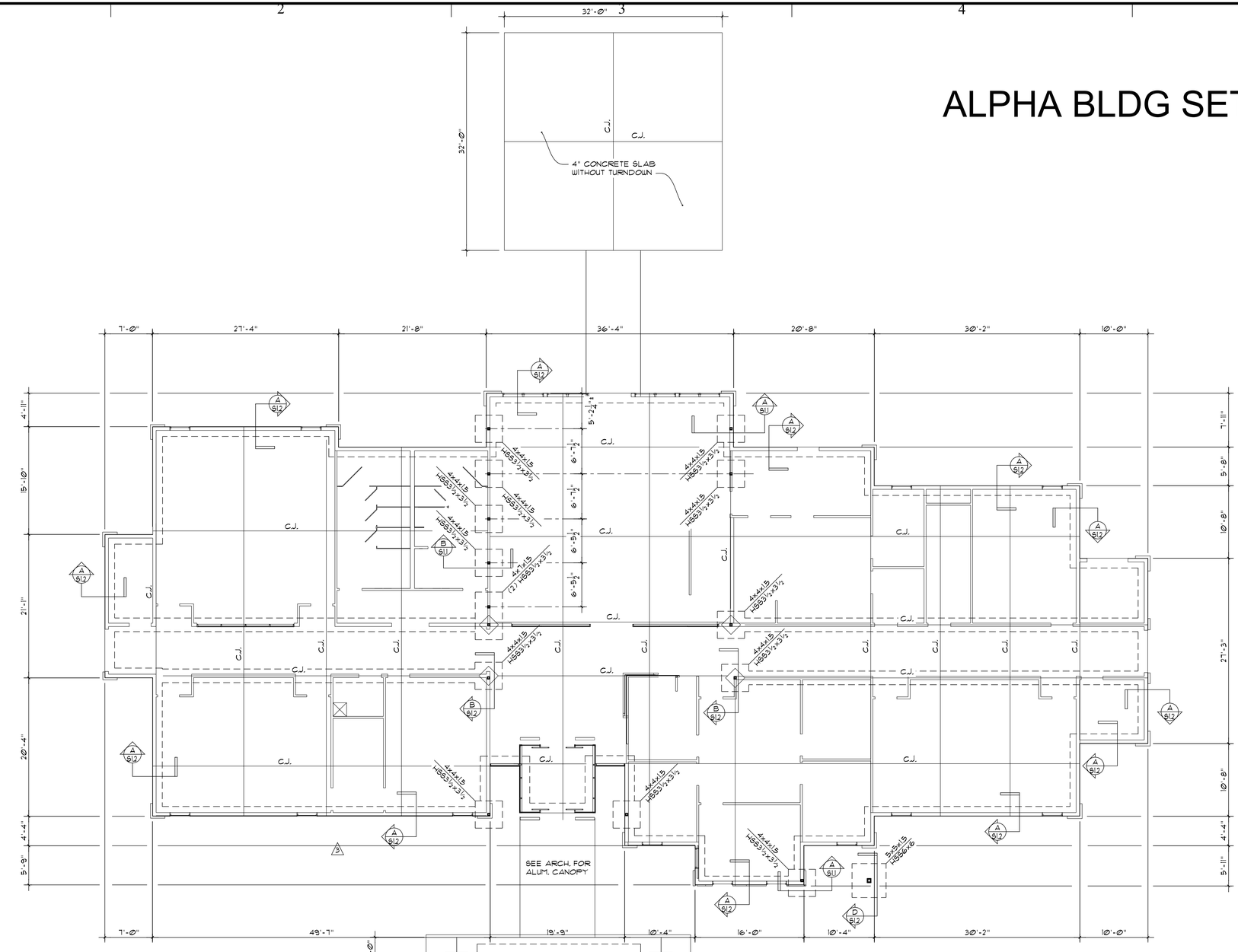
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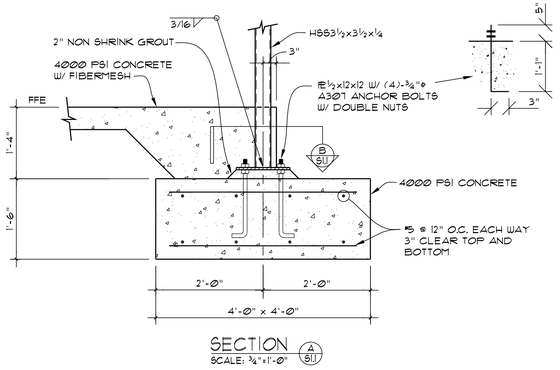
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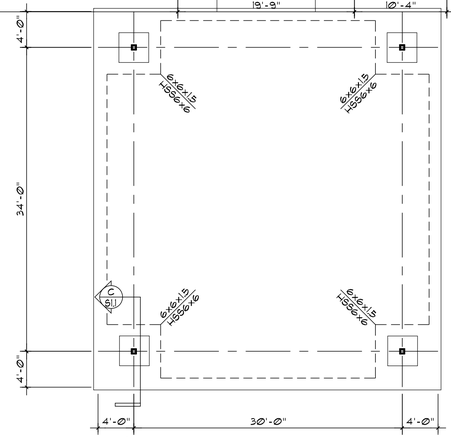
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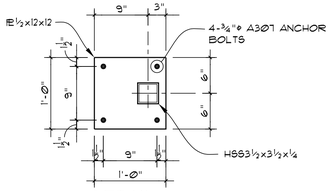




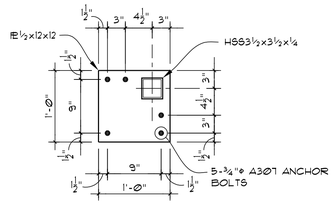
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FOUNDATION PLAN
SCALE: 1/8"=1'-Ø"



DETAIL
SCALE: 1"=1'-Ø"



(CORNER PLATE)
DETAIL
SCALE: 1"=1'-Ø"

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7-12-2024

FOUNDATION PLAN, SECTION & DETAILS

New Facility
Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

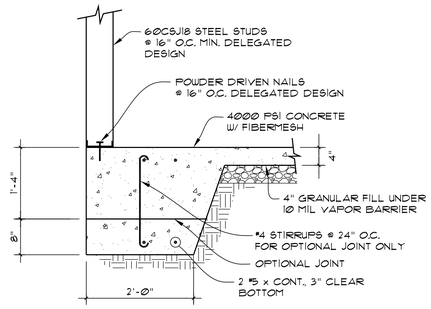
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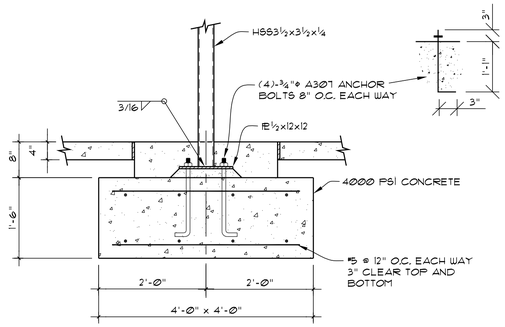
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OF

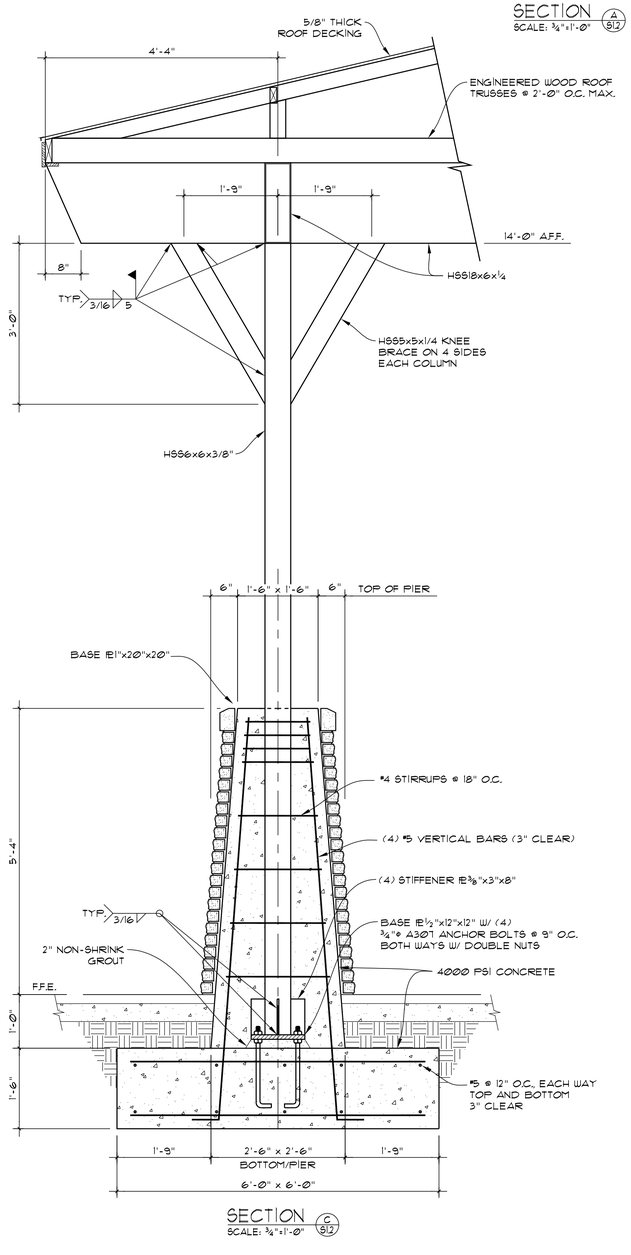


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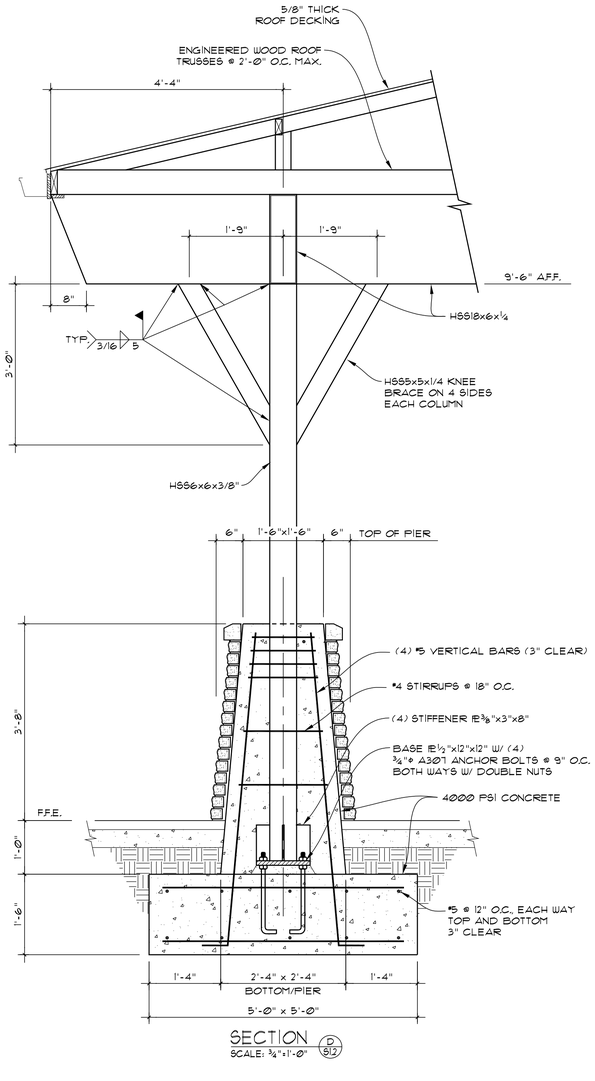


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SECTION (C/S1.2)
SCALE: ¾"=1'-Ø"



SECTION (D/S1.2)
SCALE: ¾"=1'-Ø"

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FOUNDATION SECTIONS

New Facility
Newton County Enrichment Center

Covington, Georgia

Richard Chapel Road

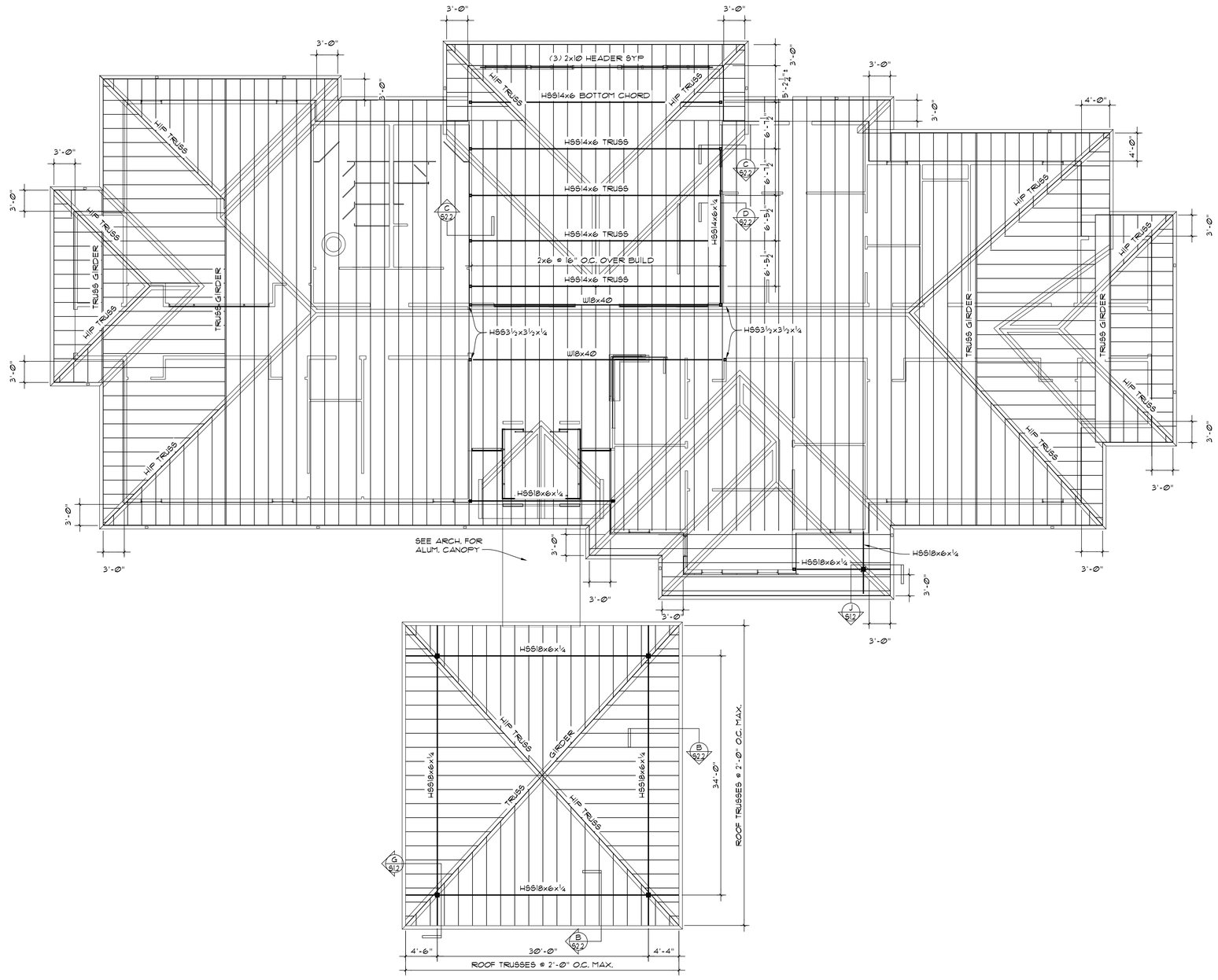
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OF



ROOF FRAMING PLAN

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NOTE: SEE ARCHITECTURAL FOR ROOF SLOPES.

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ROOF FRAMING PLAN

New Facility
Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

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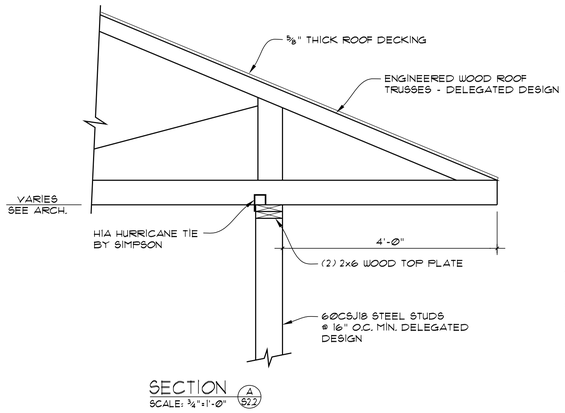
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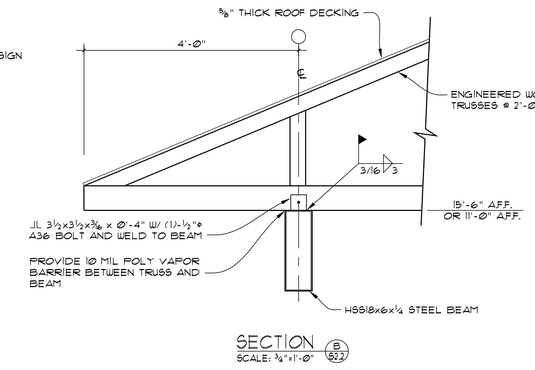
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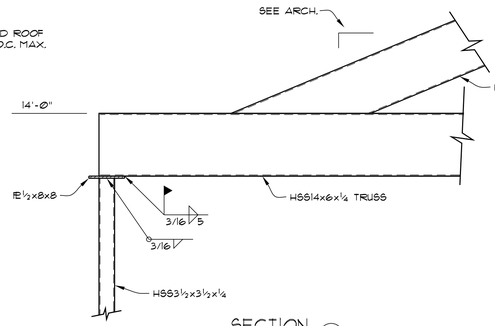
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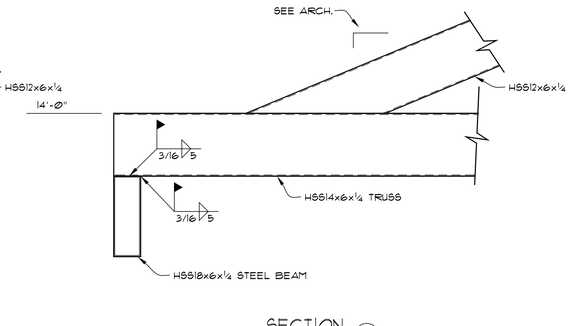
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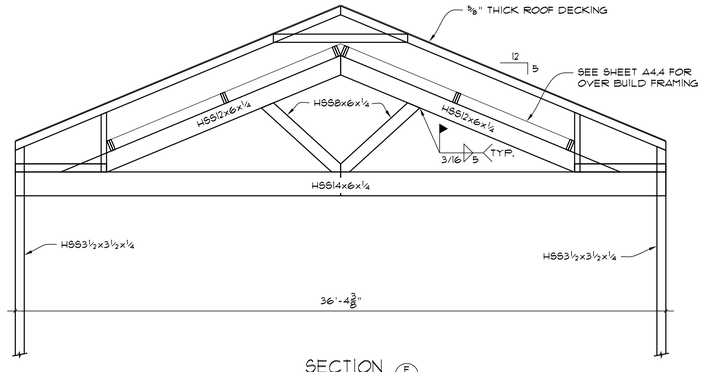
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SECTION (C/S2.2)
SCALE: ¾"=1'-Ø"



SECTION (D/S2.2)
SCALE: ¾"=1'-Ø"



SECTION (E/S2.2)
SCALE: 1/4"=1'-Ø"

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ROOF FRAMING SECTIONS

New Facility
Newton County Enrichment Center

Richard Chapel Road
Covington, Georgia

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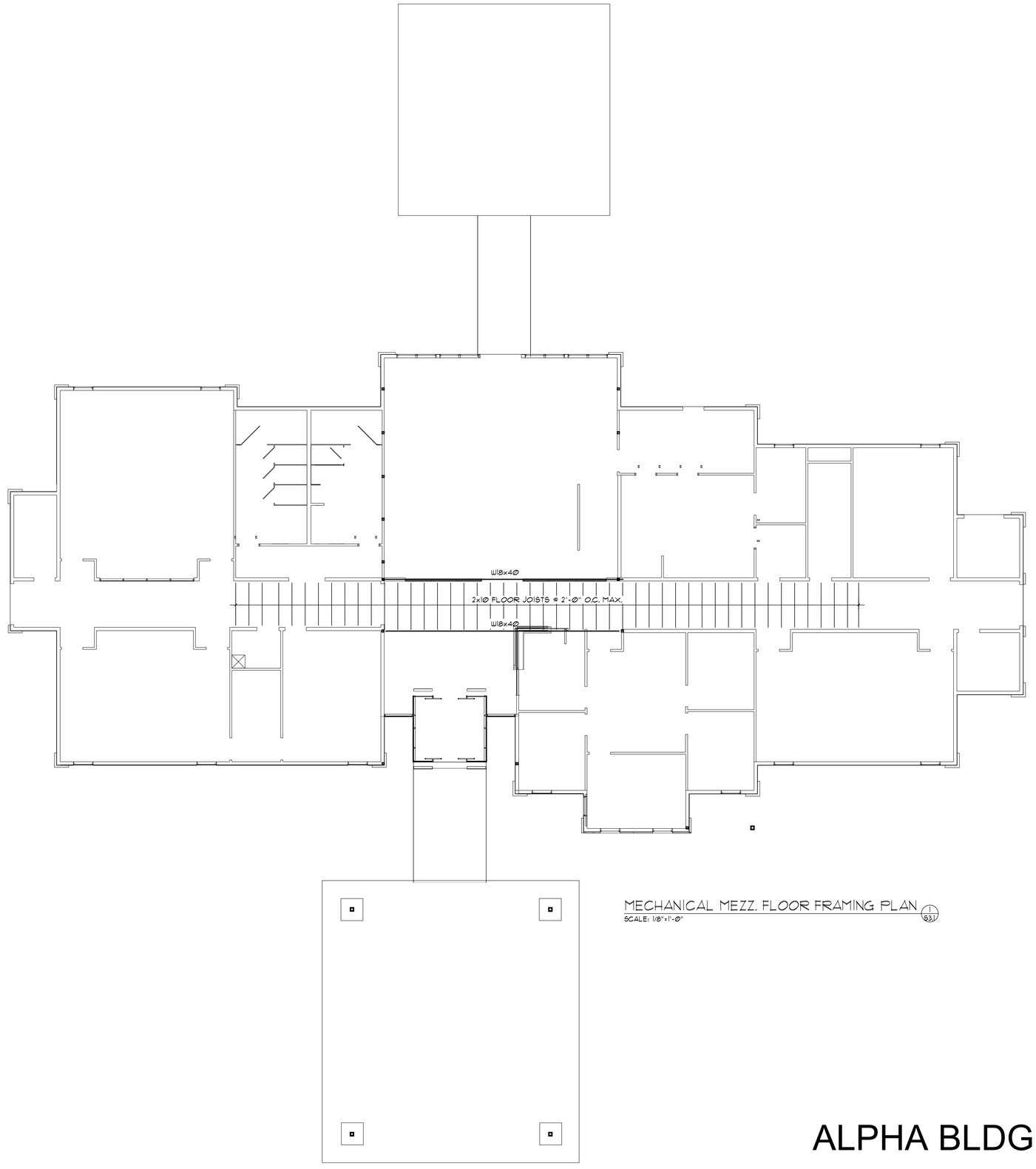
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OF



MECHANICAL MEZZ. FLOOR FRAMING PLAN
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MECH. MEZZ. FLOOR FRAMING PLAN

New Facility
Newton County Enrichment Center

Covington, Georgia

Richard Chapel Road

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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 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 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 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 at 1/8 inch per foot continuously toward public sewer. Provide PVC IPEX type 1 expansion joints on alternating floors on horizontal sewer and vent risers over 30 feet tall.

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 elastomeric.

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.

Heat tracing: Self-regulating, parallel-resistance heating cables shall Comply with IEEE 515.1. Heating Element shall be pair of parallel No. 16 or No. 18 AWG, tinned or nickel-coated, stranded copper bus wires embedded in crosslinked conductive polymer core, which varies heat output in response to temperature along its length. Terminate with waterproof, factory-assembled, nonheating leads with connectors at one end, and seal the opposite end watertight. Cable shall be capable of crossing over itself once without overheating. Flame-retardant polyolefin electrical insulating jacket. Tinned-copper or Stainless-steel braid cable cover. 3 W/ft Maximum Heat Output. Refer to electrical for voltage. Pipe-Mounted control thermostats for Freeze Protection. Install electric heating cables after piping has been tested and before insulation is installed. Install electric heating cables according to IEEE 515.1. Install warning tape on piping insulation where piping is equipped with electric heating cables.

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

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 seal 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.

Thermometers shall comply with standard ASME B40.200.

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 conceal 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 furring 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.

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 and the engineer.

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 side wall vent (SWVT) 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.

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
Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Rheem
Tankless Gas Water Heaters: A.O. Smith, Rheem, Rinnai, Bradley, Intellihot
Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline
Stainless Steel Sinks: Dayton, Elkay, Just, Kohler, Moen, Sterling, Franke
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
Water Coolers: Elkay, Oasis, Haws
Mop Sinks: Stern Williams, Acorn, Fiat

ALPHA BLDG SET 09-04-2024

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STAMP INVALID UNLESS SIGNED

PLUMBING SPECIFICATIONS

New Facility
Newton County Enrichment Center

Richard Chapel Road, Covington, Georgia

JOB NO.:	2309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04-04-24/07.03.2024 VE

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 1B681
   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 1R1154
   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 97SD.
   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 98SD.
   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., NAP300 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 SPECIALTIES

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. Libraries except Stack Areas, Office & Public Areas, Residential Living Areas, and similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.
2. Automobile Parking Areas, Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Laundries, 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.
3. Dry Cleaners, Library Stack Areas, Machine Shops, Repair Garages, and similar occupancies – Ordinary Hazard Group 2 Design;0.20 GPM/sq.ft. over the most remote 1500 square foot.

END OF SECTION

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FIRE SPECIFICATIONS

New Facility Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

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DATE:	02.12.24
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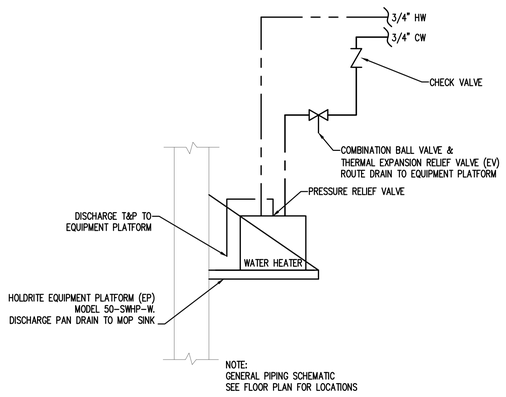
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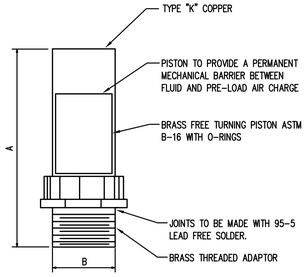
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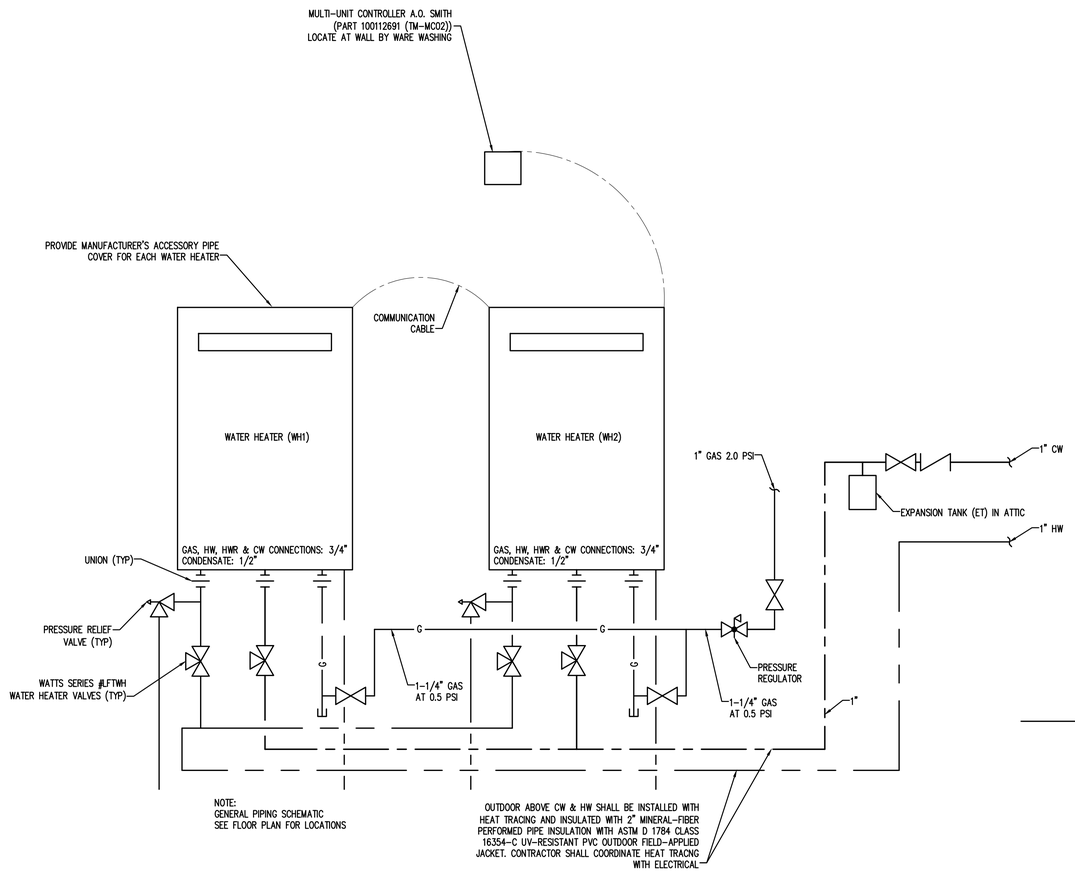


WATER HEATER (WH3) PIPING SCHEMATIC
SCALE: N.T.S.

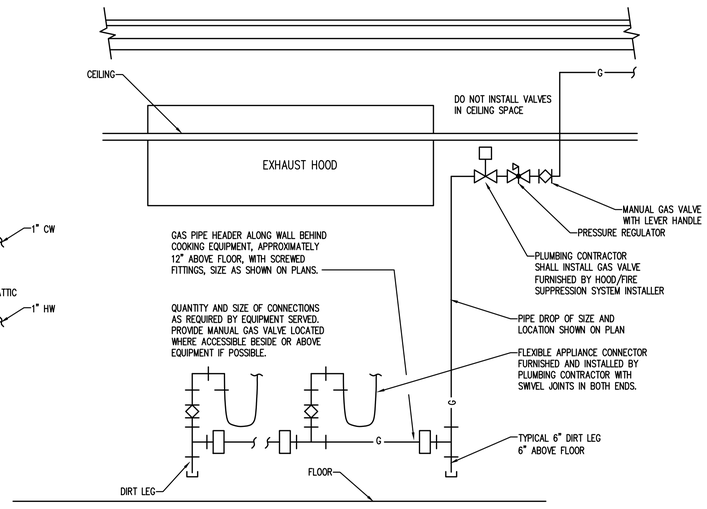


PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

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



WATER HEATERS(WH1&WH2) PIPING SCHEMATIC
SCALE: N.T.S.



PROVIDE ANY GAS APPLIANCE REGULATORS REQUIRED, OR INSTALL ANY REGULATORS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR. VERIFY ROUGH-IN REQUIREMENTS WITH KITCHEN EQUIPMENT CONTRACTOR. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. ATTACH RISER AND HEADER TO WALL WITH 1" CLEARANCE BEHIND PIPE. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS AND JOINTS IN ANY CONCEALED UNVENTILATED LOCATION.

COOKING APPLIANCE GAS PIPING
SCALE: N.T.S.

FIXTURE AND EQUIPMENT SCHEDULE

#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MODEL NUMBER
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT	
WC1	FLOOR MOUNTED FLUSH VALVE WATER CLOSET 1.28 GPF	3"	3"	1"		1"		AMERICAN STANDARD 2234.001 WATER CLOSET. SLOAN 111 ESS-1.28-XL-OR-HW FLUSH VALVE WITH FACTORY TRANSFORMER. BEMIS 1655SSCT SEAT.
WC2	ADA FLOOR MOUNTED FLUSH VALVE WATER CLOSET 1.28 GPF	3"	3"	1"		1"		AMERICAN STANDARD 3043.001 WATER CLOSET. SLOAN 111 ESS-1.28-XL-OR-HW FLUSH VALVE WITH FACTORY TRANSFORMER. BEMIS 1655SSCT SEAT.
UR1	URINAL 0.125 GPF	2"	2"	3/4"		3/4"		AMERICAN STANDARD 6002.001 URINAL. SLOAN REGAL 186 ESS-0.125-XL-HW FLUSH VALVE WITH FACTORY TRANSFORMER.
UR2	ADA URINAL 0.125 GPF	2"	2"	3/4"		3/4"		AMERICAN STANDARD 6002.001 URINAL. SLOAN REGAL 186 ESS-0.125-XL-HW FLUSH VALVE WITH FACTORY TRANSFORMER.
LAV	ADA UNDERMOUNT LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2330 LAVATORY. SLOAN SF-2100-4-PLG-BDM-CP-0.5GPM-MLM-IR-FCT FAUCET.
EWC	ELECTRIC WATER COOLER W/ BOTTLE FILLER	2"	1-1/4"	1/2"		1/2"		ELKAY LZSTL8WSLK
MOP	24"X24" TERRAZZO MOP SINK	3"	3"	1/2"	1/2"	1/2"	1/2"	FIAT TSB200 SINK, 830AA FAUCET, 832AA HOSE/BRACKET, 889CC MOP HANGER, MSG2424 PANELS, ODC32 DRAIN, & 1453BB STRAINER.
FD1	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	3"	3"					WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.
FD2	FLOOR DRAIN	3"	3"					WATTS FD-190-PR-60 FLOOR DRAIN.
HD1	HUB DRAIN	2"	2"					WATTS FD-100-DD-60.
FCO	FLOOR CLEANOUT	SEE DWG.	SEE DWG.					WATTS CO12. PROVIDE CARPET MARKER WHEN INSTALLED UNDER CARPET.
GCO	GRADE CLEANOUT	4"	4"					WATTS CO-200-RX-4-60.
HB1	HOSE BIBB			3/4"		3/4"		WOODFORD 27.
HB2	INTERIOR HOSE BIBB			3/4"		3/4"		WOODFORD 84.
FS	FLOOR SINK	4"	4"					WATTS FS-740-NH-150.
MV	POINT OF USE MIXING VALVE ASSE 1070			1/2"	1/2"	1/2"	1/2"	LEONARD 170-LF-BRKT.
EP	EQUIPMENT PLATFORM		1"					HOLDRITE 50-SWHP-W.
SNK	COFFEE BAR SINK	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY PSR1716 SINK. MOEN 8938 FAUCET
SWVT	SIDE WALL VENT TERMINAL	3"	3"					WATTS MS-8000.

CONTRACTOR SHALL CONSULT THE ELECTRICAL FOR HARDWIRED SENSOR FLUSH VALVE/FAUCET FOR WATER CLOSETS, URINALS, SINKS(SNK) & LAWTORIES.

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		SEWER VENT	CONN.	CONNECTION	HW	HOT WATER
PDI-B	PDI UNIT WATER HAMMER ARRESTOR		SEWER	NTS	NOT TO SCALE	B.F.F.	BELOW FINISH FLOOR
	DWGS.		FIRE SPRINKLER PIPING	VT	VENT	FLR	FLR
			CONDENSATE	FFE	FINISHED FLOOR ELEVATION		

TANKLESS WATER HEATER SCHEDULE

MARK	MANUFACTURER	LAYOUT BASIS	OTHER ACCEPTABLE MANUFACTURER	TYPE	BTUH/KW
WH1	A.O. SMITH	A.O SMITH ACT-1990-N	RINNAI CU199E	TANKLESS GAS	199,000 BTUH
WH2	A.O. SMITH	A.O SMITH ACT-1990-N	RINNAI CU199E	TANKLESS GAS	199,000 BTUH
ET	WILKINS	XT-8		EXPANSION TANK	-

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE

TANK TYPE WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	GPH @90° RISE	GALLON	KW	PHASE	VOLTAGE
WH3	A.O. SMITH	ENLB-40	RESIDENTIAL LOWBOY ELECTRIC	21	38	4.5	1	208
EV	WATTS	LFBRVM1	COMBINATION BALL VALVE AND RELIEF VALVE					

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PLUMBING SCHEDULES & DETAILS

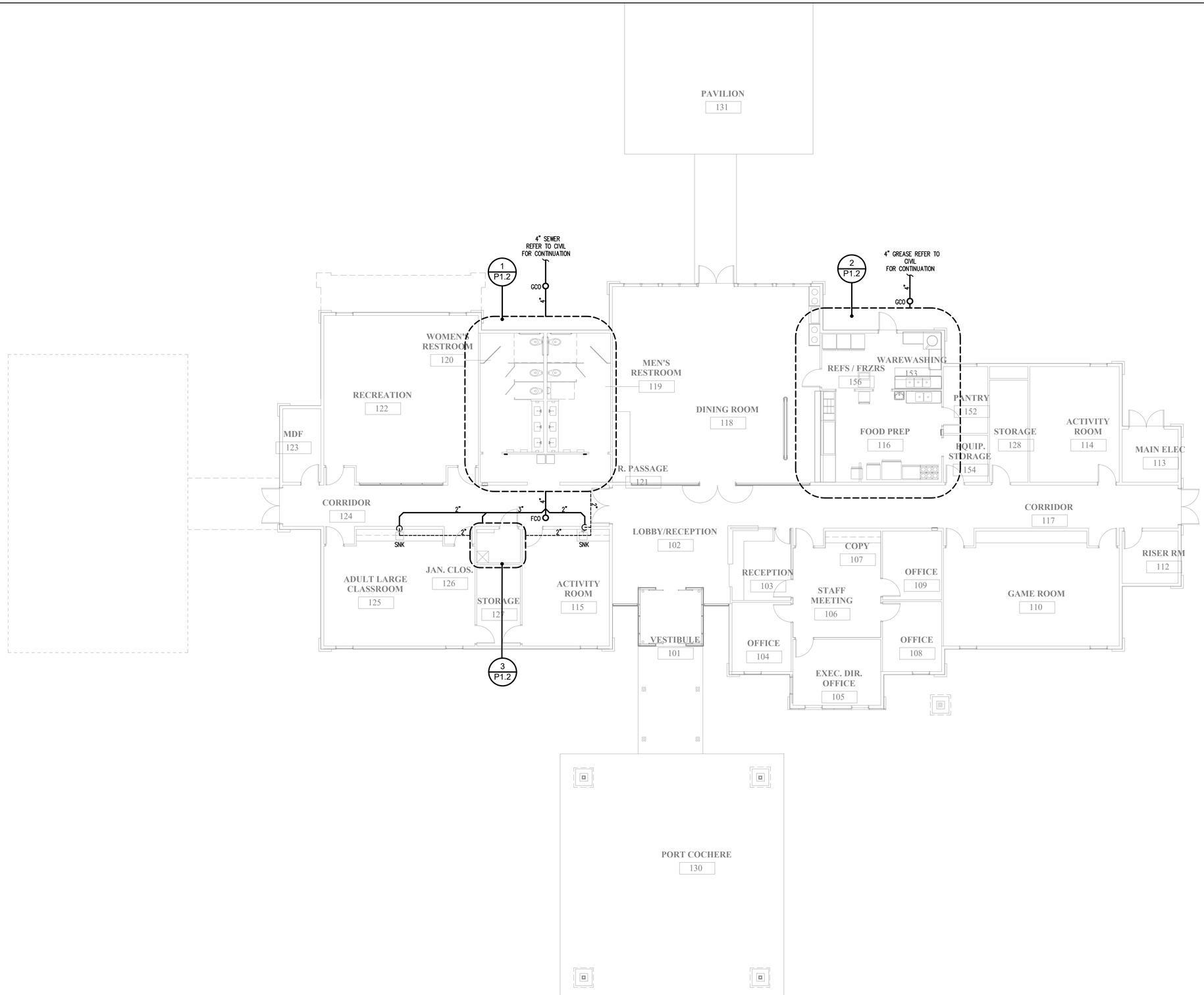
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Richard Chapel Road Covington, Georgia

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1 OVER ALL PLUMBING PLAN - SEWER
SCALE: 1/8"=1'-0"

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PLUMBING PLAN - SEWER

New Facility
Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

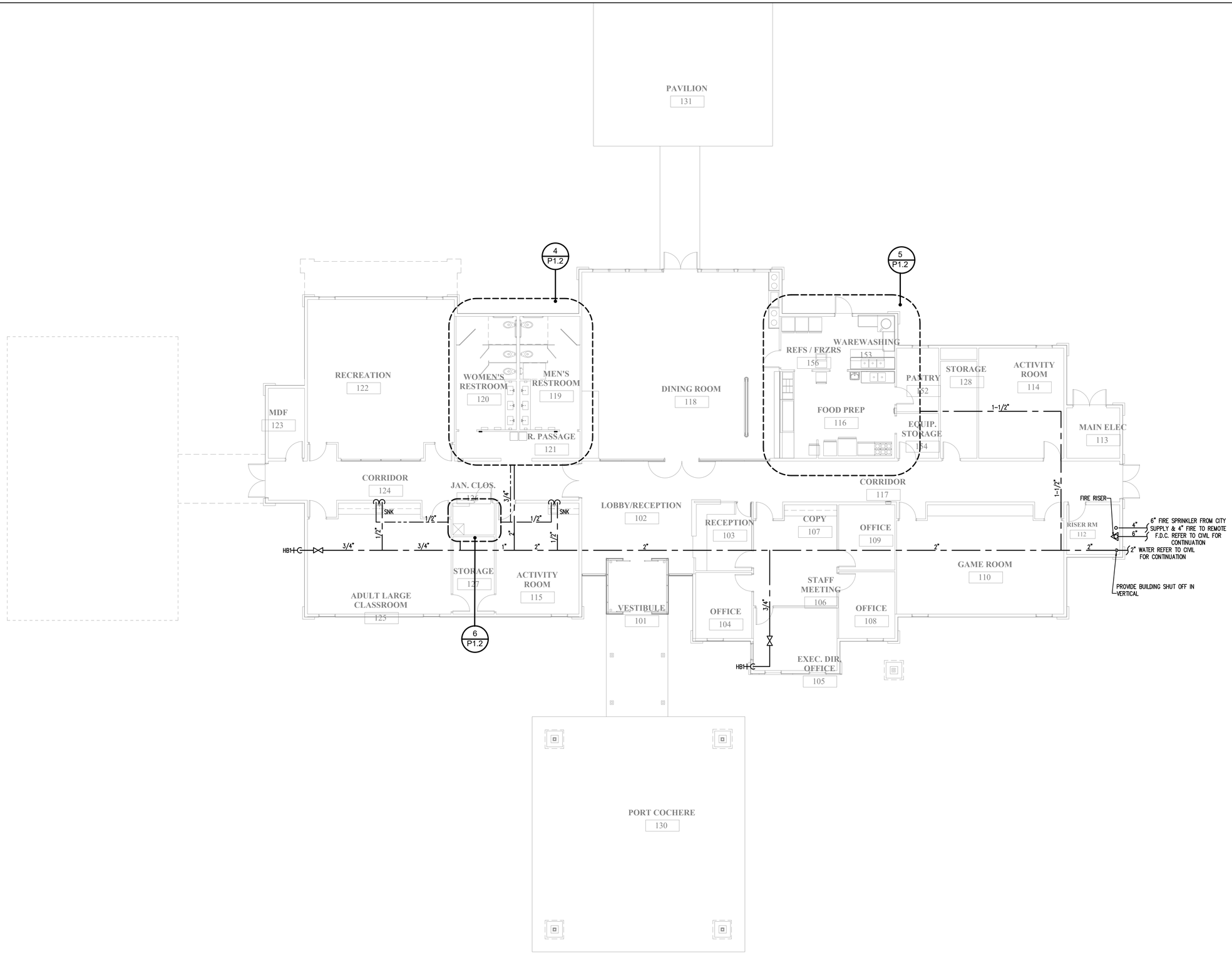
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1 OVERALL PLUMBING PLAN - WATER
SCALE: 1/8"=1'-0"

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PLUMBING PLAN - WATER

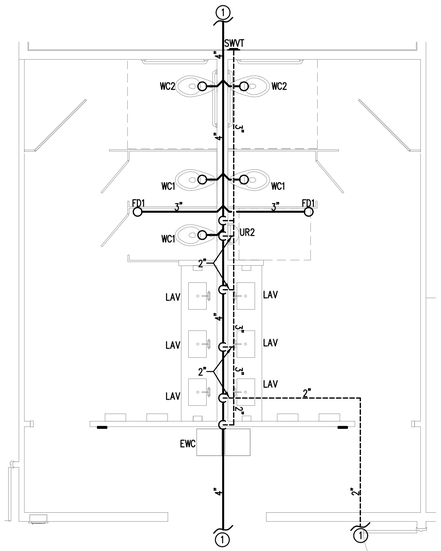
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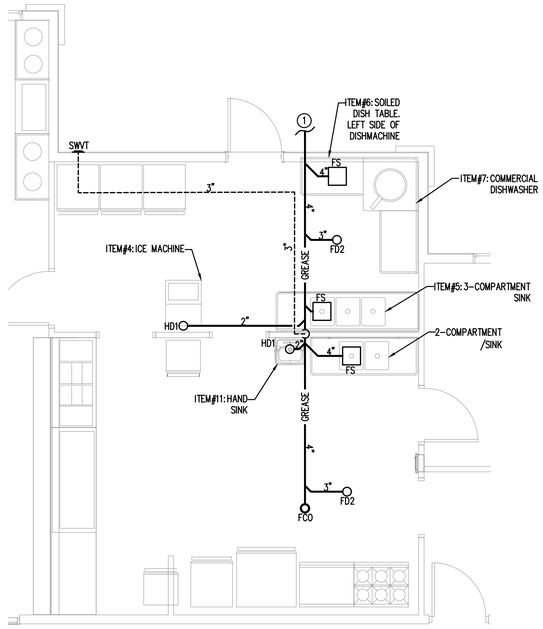
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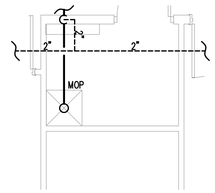
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OF



1 ENLARGED BATHROOM AREA PLUMBING PLAN -SEWER
SCALE: 1/4"=1'-0"



2 ENLARGED KITCHEN AREA PLUMBING PLAN -SEWER
SCALE: 1/4"=1'-0"



3 ENLARGED PLUMBING PLAN -SEWER
SCALE: 1/4"=1'-0"

GAS NOTES:

TOTAL GAS LOAD IS 716,000 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:

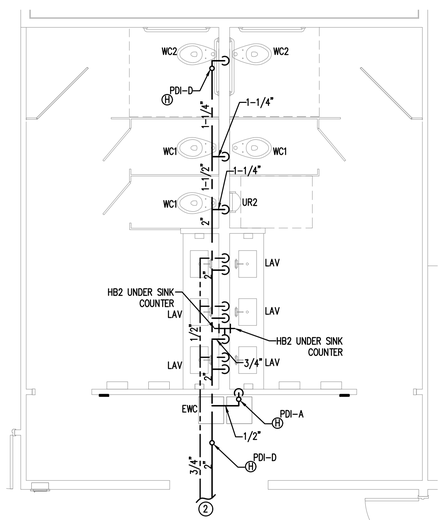
199,000 BTUH	WH1 WATER HEATER
199,000 BTUH	WH2 WATER HEATER
50,000 BTUH	ITEM#15: SINGLE DECK OVEN
268,000 BTUH	ITEM#16: 6 BURNER RANGE WITH GRIDDLE
716,000 BTUH:	TOTAL GAS LOAD

KITCHEN EQUIPMENT NOTES:

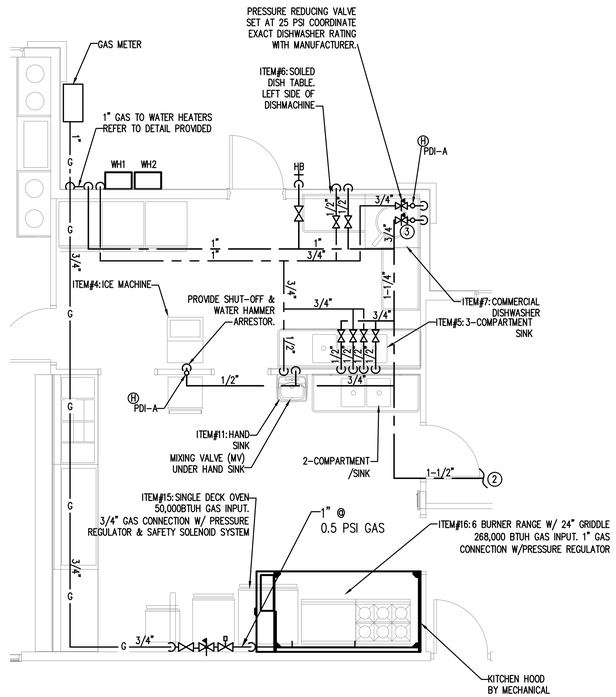
PLUMBER IS TO FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, WASTE, AND VENT LINES TO KITCHEN EQUIPMENT. CONNECT TO KITCHEN EQUIPMENT THROUGH INDIVIDUAL WATER FILTERS WHEN REQUIRED BY EQUIPMENT MANUFACTURER. USE FLEXIBLE STAINLESS STEEL LINES WITH QUICK DISCONNECT CONNECTIONS. VERIFY WITH OWNERS REPRESENTATIVE EXACT LOCATION OF EQUIPMENT AND PLUMBING ROUGH IN SIZES, LOCATIONS, AND REQUIREMENTS.

KEY NOTES(THIS SHEET ONLY):

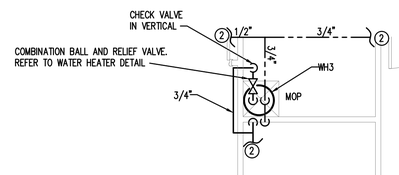
1. REFER TO P1.0 FOR CONTINUATION.
2. REFER TO P1.1 FOR CONTINUATION.
3. COLD WATER LINE TO DISHWASHER FOR AN OPTIONAL COLD WATER CONNECTION PER MANUFACTURER'S DATA SHEET.



4 ENLARGED BATHROOM AREA PLUMBING PLAN -WATER
SCALE: 1/4"=1'-0"



5 ENLARGED KITCHEN AREA PLUMBING PLAN -WATER
SCALE: 1/4"=1'-0"



6 ENLARGED PLUMBING PLAN -WATER
SCALE: 1/4"=1'-0"

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ENLARGED PLUMBING PLANS

New Facility
Newton County Enrichment Center

Covington, Georgia
Richard Chapel Road

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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: Flex master; Atco UPCJ36(R-6.0); Atco UPCJ31 (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–anches of metal duct at penetration of draft stops, fire walls and smoke walls

12) Outside duct Insulation: Insulate ducts and fittings with two, staggered layers of ½–inch foamed plastic sheet insulation, (Armo–Flex sheets) 6–pound density, having a thermal conductivity of not more than 0.28 at 75?F. Apply insulation with smooth side out of cooling both surfaces to be joined completely with a thin coat of waterproof instant bonding adhesive. Adjacent sheets shall fit under compression. Apply a 16–mil embossed aluminum jacket with a 2–inch overlap at longitudinal and transverse joints, secured in place with ½–inch by .015–inch aluminum bands on 18–inch centers. 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) Refrigerant piping shall conform to manufacturer's recommendations and installation instructions. Refrigerant piping shall be ASTM B280 Type ACR or ASTM B88 Type L drawn copper tubing with wrought copper fittings. Insulate suction line with ½" thick flexible foamed plastic cellular foam (Armaflex or equivalent). All piping shall be adequately supported. Insulation installed outdoors shall be painted with two coats of Armacell WB coating or equivalent.

16) 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).

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

18) 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.

19) 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 wraps 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.

20) All supply, return and outside air ducts shall be insulated. 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 all air handlers. Contractor shall omit duct liner for PU–1 serving kitchen. 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.

21) 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.

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

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

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

25) 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.

26) 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.

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

28) 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.

29) 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.

30) 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.)

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

32) 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.

33) Horizontal Air Handler unit: Indoor fan–coil unit shall be direct–expansion horizontal heat pump air handler with electric strip heat suspended from structure with auxiliary drip pan and condensate drain. Provide float switch in drip pan to shut down unit if pan begins to fill. Unit shall be complete with cooling coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Cabinet shall be fully insulated for improved thermal and acoustic performance. Condensate pan shall have internal trap and auxiliary drip pan under coil header. Provide condensate trap recommended by manufacturer. Air filters shall be 1–inch–thick glass fiber, disposable type arranged for easy replacement. Provide number of stages as scheduled. Provide condensate overflow switch (Rectorseal Safe–T–Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow.

34) BI–POLAR IONIZATION DESIGN & PERFORMANCE CRITERIA:

The Bi–polar Ionization system shall be capable of effectively killing microorganisms downstream of the bi–polar ionization equipment (mold, bacteria, virus, etc.). Controlling gas phase contaminants generated from human occupants, building structure and furnishings. Capable of reducing static space charges. Increasing the interior ion levels, both positive and negative, to a minimum of 800 ions/cm³ measured 5 feet from the floor. Self–cleaning requiring no maintenance or replacement parts. Producing a minimum of 1600 ions/cc. The bi–polar ionization system shall operate in a manner such that equal amounts of positive and negative ions are produced. Uni–polar ion devices shall not be acceptable.

Velocity Profile: The air purification device shall not have maximum velocity profile.

Humidity: Plasma Generators shall not require preheat protection when the relative humidity of the entering air exceeds 85%. Relative humidity from 0 – 100%, condensing, shall not cause damage, deterioration, or dangerous conditions within the air purification system. Air purification system shall be capable of wash down duty.

Equipment Requirements: Electrode Specifications (Bi–polar Ionization): Each Plasma Generator with Bi–polar Ionization output shall include the required number of electrodes and power generators sized to the air handling equipment capacity. A minimum of one electrode pair per 2,400 CFM of air flow shall be provided. Bi–polar ionization tubes manufactured of glass and steel mesh shall not be acceptable due to replacement requirements, maintenance, performance and product reduction over time, ozone production and corrosion. Electrodes shall be energized when the main unit disconnect is turned on and the fan is operating. Electrodes shall be made from carbon fiber to prevent oxidation over time. Internal circuitry shall be provided to sense air flow across the electrode output. Ionization systems requiring the use of a mechanical air pressure switch to cycle the electrodes only when the fan is operating shall not be acceptable due to high failure rates and pressure sensitivity. Electrode pair shall provide a minimum of 160 million ions per cubic centimeter as measured at 2 inches, both positive and negative ions, in equal quantities. Devices providing less than 160 million ions/cc per electrode pair shall not be acceptable. Each Plasma Generator shall be provided with a self–cleaning system that is field programmable to change the number of days between the cleaning cycle. Systems without a no–maintenance, self–cleaning system shall not be acceptable. Each electrode pair shall be designed with a banana style plug such that it can be field replaced, if necessary. Each Plasma Generator shall be provided with an inline on/off switch, universal voltage input (24VAC to 240VAC or DC), magnets for mounting to the fan inlet, replaceable carbon fiber emitters and a programmable self–cleaning system.

Air Handler & Plenum Mounted Units (non–ductless mini–split units): Where so indicated on the plans and/or schedules Plasma Generator(s) shall be supplied and installed. The mechanical contractor shall mount the Plasma Generator and wire it to the AHU control power (24VAC) as instructed by the Air Purification Manufacturer's instructions or line voltage subject to power available. Each unit shall be designed with a molded casing, self–cleaning system, self–cleaning test button, power status LED and dry contacts to prove ion output is operating properly. The dry contacts shall close to prove the ion generator is working properly and may be daisy chained in series such that only one dry contact per AHU is required to interface to the BAS or the optional DDC controller. Dry contacts proving power has been applied in lieu of the ion output is operating, are not acceptable. Manufacturers providing multiple ion modules that have alarm status wired in parallel, and not in series, shall not be acceptable.

Ionization Requirements: Plasma Generators with Bi–polar Ionization output shall be capable of controlling gas phase contaminants and shall be provided for all equipment listed above.

The Bi–polar Ionization system shall consist of Bi–Polar Plasma Generator and integral power supply. The Bi–polar system shall be installed where indicated on the plans or specified to be installed. The device shall be capable of being powered by 24VAC to 240VAC without the use of an external transformer. Ionization systems requiring isolation transformers shall not be acceptable.

Ionization Output: The Ionization output shall be controlled such that an equal number of positive and negative ions are produced. Imbalanced levels shall not be acceptable.

Ionization output from each electrode shall be a minimum of 160 million ions/cc when tested at 2" from the ionization generator.

All manufacturers shall provide documentation by an independent NELAC accredited laboratory that proves the product has minimum kill rates for the pathogens given the allotted time and in a space condition:

Ozone Generation: The operation of the electrodes or Bi–polar ionization units shall conform to UL 867–2007 with respect to ozone generation. There shall be no ozone generation during any operating condition, with or without airflow.

Control Requirements: All Plasma Generators shall have internal short circuit protection, overload protection, and automatic fault reset circuit breakers. Systems with manual fuses shall not be allowed. Integral airflow sensing shall modulate the Plasma output as the airflow varies or stops. A mechanical airflow switch shall not be acceptable to activate the Plasma device due to high failure rates and possible pressure reversal. The installing contractor shall mount and wire the Plasma device within the air handling unit specified or as shown or the plans. The contractor shall follow all manufacturer IOM instructions during installation. Dry contacts shall be provided to prove there are ions being produced. Systems providing indication that power is applied to the Plasma device, but not directly sensing the power at the ion output, shall not be acceptable.

35) Indoor, direct–expansion, wall–mounted fan coil unit: Unit shall be complete with cooling/heating coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Unit shall be furnished with integral wall mounting bracket and mounting hardware. Cabinet discharge and inlet grilles shall be attractively styled, high–impact polystyrene. Cabinet shall be fully insulated for improved thermal and acoustic performance. Fan shall be tangential direct–drive blower type with air intake at the top of the unit and discharge at the bottom front. Automatic, motor–driven vertical air sweep shall be provided standard. Air sweep operation shall be user selectable. The vertical sweep may be adjusted (using the remote control) and the horizontal air direction may be set manually. Coil shall be copper tube with aluminum fins and galvanized steel tube sheets. Fins shall be bonded to the tubes by mechanical expansion and golden hydrophilic pre–coated. A drip pan under the coil shall have a drain connection for hose attachment to remove condensate. Condensate pan shall have internal trap. Motors shall be open drip–proof, permanently lubricated ball bearing with inherent overload protection. Fan motors shall be 4–speed. Controls shall consist of a microprocessor–based control system which shall control space temperature, determine optimum fan speed, and run self–diagnostics. The temperature control range shall be from 62°F to 86°F (17°C to 30°C) in increments of 1°F or 1°C, and have 46°F Heating Mode (Heating Setback). The wireless or wired remote controller shall have the ability to act as the temperature sensing location for room comfort. Refer to schedule for preference on wired or wireless thermostat. The unit shall have the following functions as a minimum: An automatic restart after power failure at the same operating conditions as at failure. A timer functions to provide a minimum 24–hour timer cycle for system Auto Start/Stop. Temperature–sensing controls shall sense return air temperature. Indoor coil freeze protection. Wireless infrared remote control and/or wired remote control as scheduled to enter set points and operating conditions. Automatic air sweep control to provide on or off activation of air sweep louvers. Dehumidification mode shall provide increased latent removal capability by modulating system operation and set point temperature. Fan–only operation to provide room air circulation when no cooling is required. Diagnostics shall provide continuous checks of unit operation and warn of possible malfunctions. Error messages shall be displayed at the unit. Fan speed control shall be user–selectable: high, medium, low, or microprocessor controlled automatic operation during all operating modes. Automatic heating–to–cooling changeover in heat pump mode. Control shall include deadband to prevent rapid mode cycling between heating and cooling. Indoor coil high temperature protection shall be provided to detect excessive indoor discharge temperature when unit is in heat pump mode. Unit shall have filter track with factory–supplied cleanable filters. Indoor fan motor to operate on 115V on model size 12 and on 208–230V on model sizes 09–36, as specified. Power is supplied from the outdoor unit. All units should have refrigerant lines that can be oriented to connect from the left, right or back of unit. Both refrigerant lines need to be insulated. The condensate pump shall remove condensate from the drain pan when gravity drainage cannot be used. Pump shall be designed for quiet operation. Pump shall consist of two parts: an internal reservoir/sensor assembly, and a remote sound–shielded pump assembly. A liquid level sensor in the reservoir shall stop cooling operation if the liquid level in the reservoir is unacceptable. Refer to schedule for providing condensate pump. Only provide condensate pump were indicated on schedule.

36) Small Split Condensing unit: Casing: House components in welded steel frame with galvanized steel panels with weather resistant, baked enamel finish. Mount contactors and controls in weatherproof panel provided with full opening access doors. Provide removable access doors or panels with quick fasteners. Compressor: Hermetically sealed, 3600 rpm maximum, resiliently mounted with positive lubrication and internal motor protection. Compressor: Hermetic reciprocating type or Hermetic scroll type. Condenser Coils: Aluminum fins mechanically bonded to seamless copper tubing or all aluminum fins and tube. Air test under water to 425 psig, and vacuum dehydrate. Seal with holding charge of refrigerant. Coil Guard: Louvered or PVC coat steel wire. Fans and motors: Direct driven propeller type condenser fans with fan guard on discharge. Weatherproof motors suitable for outdoor use, single phase permanent split capacitor with permanent lubricated ball bearings and built in thermal overload protection. Fan Guard: PVC coat steel wire. Refrigerant circuit: For each refrigerant circuit, provide: Filter dryer liquid line. Suction accumulator. Suction and liquid line service valves and gage ports. Charging valve. Condenser pressure relief mechanism. Factory wired with single point power connection. Factory wired controls shall include contactor, high– and low–pressure cutouts, internal winding thermostat for compressor, control circuit transformer, non–cycling reset relay. Provide a surge capacitor and lightning arrestor in unit cabinet for protection from power surges due to lightning and switching transients. Provide controls to permit operation down to 0 degrees F ambient temperature where scheduled to include: Crankcase heater with thermostat. Head pressure switch to cycle fan motors in response to refrigerant condensing pressure. Solid state control to vary speed of one condenser fan motor in response to refrigerant condensing pressure. Refer to Schedule on Drawings for additional specifications.

37) Air Source Heat Pumps (HP): outdoor–mounted, air–cooled split system outdoor section suitable for rooftop installation, consisting of a hermetic compressor, an air–cooled coil, propeller–type blow–thru outdoor fans, accumulator, full refrigerant charge (R–410A), and control box. Unit shall function as the outdoor component of an air–to air cooling system and used in a refrigeration circuit matched to the indoor unit. Unit construction shall comply with ANSI/ASHRAE 15, latest revision, the NEC, and UL standards. Provide rail support system compatible with roofing system. Refer to Schedule on Drawings for additional specifications.

38) Provide a duct smoke detector on the supply duct of each air handling unit or rooftop unit with design airflows exceeding 2,000 CFM, and where smaller air handling units have common return ductwork or plenum and total air flow exceeds 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.

39) 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." Contractor shall provide fire damper at all rated assemblies. Contractor shall coordinate rated assemblies with architectural plans.

40) Up Blast fan (direct drive): Roof exhaust fans shall be upblast centrifugal direct drive type. The fan wheel shall be centrifugal backward inclined, constructed of aluminum and shall include a wheel cone carefully matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced. The fan housing shall be constructed of heave gauge aluminum with a rigid internal support structure. Windbands shall have a rolled bead for added strength and shall be joined to curb caps with a leak–proof, continuously welded seam. Motors shall be mounted out of the airstream on vibration isolators. Fresh air for motor cooling shall be drawn into the motor compartment from an area free of discharge contaminants. Motors shall be readily accessible for maintenance. A disconnect switch shall be factory installed and wired from the fan motor to a junction box within the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring. All fans shall bear the AMCA Certified Ratings Seal for sound and air performance. Each fan shall bear a permanently affixed manufacturer's nameplate containing the model number and individual serial number for future identification.

41) KITCHEN HOOD ROOF EXHAUST FAN (KEF)

Manufacturers: Acme PU, Breeder TB, Cook VCR, Greenheck CUBE, Penn Barry Fume]–X; Twin City BCRUR.
Fan Unit: V–belt drive or direct drive as scheduled, upblast spun aluminum with grease tray. Housing shall be upblast venturi type with wind band and shall be hinged for servicing. Provide stainless steel restraining cables and full–length hinge. Fan wheel shall be heavy duty backward inclined aluminum wheel, resilient mounted motor with motor and drive in a separate ventilated enclosure with clean air breather tube and removable aluminum cover.
Provide insulating heat shield protecting motor compartment.
Grease: Provide drain connection with aluminum grease trap. Grease trap shall be removable for cleaning.
Roof Curb: Curb height shall provide 8–inch clear above roofing. Curb shall be self–flashing, galvanized steel with continuously welded seams, built–in cant strips; insulation and curb bottom; factory installed Nailer strip.
Disconnect Switch: Factory wired, non–fusible, on housing.
Backdraft Damper: Aluminum multiple blade construction, gasketed edged with offset hinge pin, nylon bearings, blades linked and line voltage motor drive, power open, spring return.
Drive and Sheaves: Drives rated at 1.5–time motor HP, minimum. Cast iron or steel sheaves, dynamically balanced, bored to fit shafts and keyed; variable and adjustable pitch motor sheave selected so required rpm is obtained with sheaves set at mid–position; fan shaft with self–aligning pre–lubricated ball bearings.
Fan shall comply with UL 762 and NFPA 96 (current Ga. Edition) requirements.

42) 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 countersunk and 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.

43) 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.

44) 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 support galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.

45) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of advesive 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 O.

46) Gravity Ventilators: Heavy gauge arched sheet aluminum with interlocking seams or spun aluminum with base for curb mounting. Provide matching pre–fabricated roof curb and bird screen. Provide normally closed gravity backdraft damper.

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

48) Louvers:6" deep, 12 gauge (0.081) etched and 30–minute clear anodized extruded aluminum, drainable blades, and frame; back mounted 1/2" mesh 19–gauge screen; flange frame. Louver shall be rated for no water carry–through at 900 face velocity, 0.15" maximum pressure drop for 4–foot square sample tested according to AMCA Standard 500, 1973. American Warming LE–33 (alum.); Ruskin [ELF–6375D; Louvers & Dampers IEL–6; Industrial Louvers 653 alum.; Vent Products #4650; Shipman LE–33 (alum.); Arrow United EA615–D (alum.); Greenheck ESD–603. Provide adapter to match corrugations in metal panel.

49) 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. Fan and heater shall be separately controllable. Fan shall contain electric heater Air delivery shall be no less than scheduled and sound level no greater than listed in the schedule. All air and sound ratings shall be certified by HVI.

50) Gound Mounted Packaged Make up air unit: Unit shall be fully assembled at the factory and consist of an insulated metal cabinet, downturn outdoor air intake with 2" aluminum mesh filter assembly, evaporator coil, condensate drain pan, P trap, hot gas reheat coil, indirect gas furnace, packaged DX system, motorized dampers, sensors, curb assembly, service receptacle, filter assembly for intake air, supply air blower assembly and an electrical control center. All specified components and internal accessories factory installed are tested and prepared for single–point high voltage connection except with electric post heat and exhaust fan only power which have dual point power.

Materials: Formed, double wall insulated metal cabinet, fabricated to permit access to internal components for maintenance. Unit's exterior shall be supplied from the manufacturer using G60 galangal steel with proprietary pre–painted material.

Cabinet Insulation: Comply with NFPA 90A and NFPA 90B and erosion requirements of UL 181.

Access panels / doors: Unit shall be equipped with insulated, hinged doors or removable access panels to provide easy access to all major components.

Supply Air blower assemblies: Blower assembly shall consist of an electric motor and direct–drive fan(s). Assembly shall be mounted on heavy gauge galvanized steel rails and further mounted on 1.125–inch–thick neoprene vibration isolators. Blower motor(s) shall be capable of continuous speed modulation and controlled by a VFD.

Evaporator Coil: Evaporator coil shall be AHRI Certified and shall be (silver) soldered or brazed into the compressed refrigerant system. Coil shall be constructed of copper tubing, permanently bonded to aluminum fins, and enclosed in a galvanized steel frame. If two compressors are used as components of the unit, then the evaporator coil shall be of "interlaced" configuration, permitting independent operation of either compressor without conflict with the other compressor

Control panel / connections: Rooftop Ventilator units shall have an electrical control center where all high and low voltage connections are made. Control center shall be constructed to permit single–point high voltage power supply connections. RTU shall be equipped with a Unit Disconnect Switch

Condensate drain pan: Drain Pan shall be an integral part of the unit whenever a cooling option is included. Pan shall be formed of welded austenitic stainless–steel sheet material and provided with a welded stainless–steel drain connection at the front for connection to a P trap. Drain pan shall be sloped in two directions to provide positive draining and drain connector shall be sealed at penetration through cabinet wall

P trap: contractor shall provide, or fabricate, and install an appropriate P trap as per detail provided.

Reheat Coil with factory installed modulating hot gas reheat valve

Indirect gas furnace: Shall have 4–pass tubular heat exchangers, constructed of 409 stainless steels. Heat exchanger tubes shall be installed on the vest plate by means of swaged assembly. Heat exchanger tubes shall be supported and permit expansion and contraction of the tubes. Furnace control shall be 4:1 Modulating

Packaged DX System: Unit shall have an integral compressor(s) and evaporator coil located within the weather–tight unit housing. Condenser coils and appurtenant condenser fan assemblies shall be factory installed as integral subassemblies of the unit and mounted on the exterior of the unit. Unit condenser fans shall feature swept blade design resulting in reduced sound levels. Condenser fan motors shall be three phase, external rotor, type 56 frame, open air over and shaft up. Each condenser fan motor shall have a vented frame, rated for continuous duty, and be equipped with an automatic reset thermal protector. The refrigerant compressor(s) shall be digital scroll–type and shall be equipped with liquid line filter drier, thermostatic expansion valves (TXV)(s), manual reset high pressure and low–pressure cutouts and all appurtenant sensors, service ports and safety devices. Compressed refrigerant system shall be fully charged with R–410A refrigerant. Each compressor shall be factory–equipped with an electric crankcase heater to boil off liquid refrigerant from the oil.

Packaged DX Control and Diagnostics: The Packaged DX system shall be controlled by an onboard digital controller (DDC) that indicates both owner–supplied settings and fault conditions that may occur. The DDC shall be programmed to indicate the following faults:

1. Global alarm condition
2. Supply Air Proving alarm
3. Dirty Filter alarm
4. Compressor Trip alarm
5. Compressor Locked Out alarm

Phase and brownout protection: RTU shall have a factory–installed phase monitor to detect electric supply phase loss and voltage brown–out conditions. Upon detection of a fault, the monitor shall disconnect supply voltage to all motors.

Blower section construction Supply Air: direct drive motor(s) and blower(s) shall be assembled on a 14–gauge galvanized steel platform and shall be equipped with 1.125–inch–thick neoprene vibration isolation devices.

Unit shall have permanent 2–inch (50.8 mm) aluminum mesh filters located in the outdoor air intake and shall be accessible from the exterior of the unit. MERV 8 disposable pleated filters shall be provided in the supply air stream.

51) KITCHEN HOOD ACCESSORIES

A. Fire Extinguishing System: Provide new liquid foam type system that complies with NFPA 96.
1. Exposed Piping Under Hood: Stainless steel or chrome plated.
2. Exposed Piping Outside Hood: Not permitted.
3. Nozzles: Stainless steel or chrome plated brass.
4. Electrical Components: Provide all components required for properly operating system, including but not limited to wiring, raceways, contactors, circuit breakers, switches, and solenoids.
5. Fire Alarm System: Provide connection point for building fire alarm system that provides system readiness indication and a point that generates a signal when system is actuated.
6. Manual Actuators: Wall–mounted pull stations; provide one near each hood and one near exit door.
7. Manufacturers: Kidde "450 Aqua Blue"; Pyro Chem "PCL"; Ansul "R–102"
8. Install in accordance with NFPA 17A. Locate heads to comply with actual appliance layout and NFPA 96 requirements.
9. Provide nozzle in exhaust duct.

B. Kitchen Hood Controls:
1. Provide controls for Hood exhaust and make–up air fans: Provide manual push button controls for starting and stopping fans and labeled indicator lights showing each fan's status. Provide automatic start base on cooking surface temperature.
2. Cooking Equipment: Interlock shut off electrical power to appliances under hood with Fire Extinguishing System.
3. Cooking Equipment: Interlock shut off natural gas and all fuel to appliances under hood with Fire Extinguishing System.
4. Control Enclosures: Flush–mounted; stainless steel, to match hood. Provide indicator lights on control panel door showing status of fans and power supply.

52) Dishwasher Hood: Stainless steel condensate type hood with drip channel and drain connection. Refer to schedule for layout basis. Substitutions shall match the features of specified model.

53) Kitchen Hood: Stainless steel. Hood shall include filters/Baffles that are removable, aluminum, with spring–loaded fastening. Fabricate stainless steel for filter frame and removable collection cup and pitched trough. Exposed surfaces shall be pitched to drain to collection cup. Filters/baffles shall be tested according to UL 1046, "Safety for Grease Filters for Exhaust Ducts," by an NRTL acceptable to authorities having jurisdiction. Hood shall include surface mounted lighting fixtures with vapor sealed lenses. Wiring shall be in conduit on exterior of hood. Light fixtures provided shall provide 70 foot–candles at 30 inches above finished floor. Provide heat sensing controls to automatically start exhaust fan when appliances are in use. Refer to

KITCHEN EXHAUST HOOD SCHEDULE

EQUIPMENT NO.	SERVICE	EXHAUST AIR (CFM)	LENGTH (FT'-IN.")	WIDTH (IN.")	VOLTS/PH	MANUFACTURER & MODEL	NOTES
KH-1	116 FOOD PREP	1,500	8'-1"	54.0	120/1	CAPTIVEAIRE 5424 ND-2	1:2:3:4:5:6:7:8
DH-1	DISHWASHER @ 116 FOOD PREP	600	4'-0"	48.0	---	CAPTIVEAIRE 4824 VHB-G	1:9:10

1. BOTTOM OF KITCHEN HOOD AT 80" AFF.
2. PROVIDE MANUFACTURER'S FIRE SUPPRESSION SYSTEM. FIRE SUPPRESSION SYSTEM SHALL BE COMPATIBLE WITH NFPA 96.
3. SUPPLY AND EXHAUST DUCTWORK SHALL BE COMPATIBLE WITH NFPA 96. HOOD SECTIONS SHALL BE CONTROLLED BY TEMPERATURE SENSOR PER MANUFACTURER'S RECOMMENDATIONS.
4. SHORT CYCLE/SHORT CIRCUIT KITCHEN HOOD. HOOD SHALL HAVE 1-2 POSITION LIGHT SWITCH, 1-2 POSITION FAN SWITCH, LIGHTS AND CONTROLS RECOMMENDED BY MANUFACTURER AND PER NFPA 96.
5. VERIFY ELECTRICAL REQUIREMENT WITH ELECTRICAL DRAWINGS WHICH TAKES PRECEDENCE OVER THIS INFORMATION. PROVIDE MANUFACTURER'S RECOMMENDED ACCESSORIES.
6. PROVIDE BACKSLASH PANEL FILTERS, GAS VALVE, INTEGRAL AIR SPACE, AND UTILITY CABINETS. CONTRACTOR SHALL COORDINATE PIPE SIZE WITH PLUMBING BEFORE ORDERING VALVE.
7. KITCHEN HOOD EXHAUST DUCT SHALL MEET NFPA 96. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE MINIMUM WELDED SEAM 18 GAUGE BLACK STEEL.PROVIDE DUCT CLEANOUT PORT AT 90 DEGREE TRANSITION, AND PROVIDE FIRE WRAP FOR EXHAUST DUCT.
8. MANUFACTURED ROUND DUCT FROM HOOD MANUFACTURER CAN BE SUBSTITUTED FOR 18 GAUGE BLACK STEEL DUCT.
9. HEAT AND CONDENSATE HOOD. PROVIDE CONDENSATE DRAIN AND CONDENSATE GUTTER.
10. REFER DETAIL PROVIDED.

GROUND MOUNTED PACKAGE MAKE UP AIR UNIT SCHEDULE

MARK	SUPPLY AIR CFM	OUTSIDE AIR MIN/MAX CFM	RETURN AIR MIN/MAX CFM	MAX. EXT. SP (IN. WG.)	MAX MOTOR HP	COOLING COIL CAPACITY				HOT GAS RE-HEAT		UNIT LEAVING TEMPARATURE			HEATING- NAT. GAS			ELECTRICAL		WEIGHT	LAY OUT-BASIS: CAPTIVEAIRE	NOTES
						GROSS TOTAL MBH	SENS. MBH	COIL (DB/WB) EAT	LAT	SENS. MBH	COIL (DB/WB) EAT	LAT	LEAV. AIR DB	LEAV. AIR WB	MAXIMUM LEAVING AIR TEMP	MBH IN	MBH OUT	EAT	LAT	VOLTS	PHASE	(LBS)		
PU-1	2,000	400/2,000	0/1,600	1.0	2.0	144.0	56.6	81.2/76	54.3/54.2	96.0	54.3/54.2	70/60	70.0	60.0	55.0	184.0	149.0	21.0	86.0	208	3	2000	CASRTU2-I.200-15-10T	1:2:3:4:5:6:7:8:9:10:11:12:13:14:15:16

1. VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION.
2. GROUND MOUNTED UNIT WITH VERTICAL DISCHARGE. UNIT SHALL BE MOUNTED ON MANUFACTURER PLENUM CURB WITH SIDE DISCHARGE.
3. UNIT SHALL BE CONTROLLED BY MANUFACTURER'S SENSOR AND REMOTE CONTROL PANEL. REFER TO DRAWING FOR LOCATIONS.
4. UNIT SHALL COME ON TO 100% OUTSIDE AIR WHEN KITCHEN HOOD IS ON. REFER TO WIRING DIAGRAM FROM MANUFACTURER.
5. UNIT SHALL WORK UNDER NORMAL CONDITION WITH RETURN AIR CFM AT 1600 CFM AND OUTSIDE AIR AT 400 CFM WHEN KITCHEN HOOD IS OFF.
6. INSTALL SMOKE DETECTOR AS SHOWN ON PLANS. DETECTOR PROVIDED BY ELECTRICAL.
7. PROVIDE INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
8. PROVIDE DIRECT DRIVE PLENUM BLOWER.
9. UNIT SHALL BE INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER.
10. PROVIDE REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE.
11. PROVIDE EC MOTOR CONDENSING FANS, PROVIDE ELECTRONIC EXPANSION VALVE, SUCTION LINE ACCUMULATOR AND ELECTRONIC EXPANSION VALVE.
12. PROVIDE FACTORY MOUNTED AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS.
13. PROVIDE 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE.
14. PROVIDE 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN.
15. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE.
16. PROVIDE FULLY MODULATING HOT GAS REHEAT AND HAIL GUARD FOR CONDENSING COIL.

KITCHEN PRESSURIZATION CALCULATIONS

EQUIPMENT	EXHAUST	MAKEUP
MARK	CFM	CFM
		AREA
KEF-1	1500	0
DEF-1	600	0
PU-1		2000
TOTAL	2100	2000

FAN SCHEDULE

MARK	CFM	EXT. SP IN W.G.	DRIVE TYPE	MOTOR AMP/WATTS /HP	MAX SONES	POWER/ PHASE	SERVES	BASIS OF DESIGN	NOTES
EF-1	150	0.20	DIRECT	128.0 W	4.5	115/1	120 WOMEN	GREENHECK SP-B150	1:2:3:4
EF-2	150	0.20	DIRECT	128.0 W	4.5	115/1	119 MEN	GREENHECK SP-B150	1:2:3:4
EF-3	70	0.25	DIRECT	20.0 W	1.3	115/1	123 JAN.	GREENHECK SP-B90	1:2:3:5
KEF-1	1,500	0.75	DIRECT	0.75 HP	8.9	115/1	KITCHEN HOOD(KH-1)	CAPTIVEAIRE DU85HFA	6:7:8:9:12
DEF-1	600	0.25	DIRECT	0.33 HP	9.2	115/1	DISHWASHER HOOD(DH-1)	CAPTIVEAIRE DU33HFA	6:10:11:12

1. CEILING MOUNTED CENTRIFUGAL FAN. PROVIDE FACTORY SUPPLIED DISCONNECT SWITCH, BACKDRAFT DAMPER, VIBRATION ISOLATION, FAN SPEED CONTROLLER, GRILLE AND MOTOR WITH THERMAL OVERLOAD.
2. PROVIDE ROUND DUCT CONNECTION.
3. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
4. FAN SHALL BE CONTROLLED BY A 24/7 365 DAY TIME CLOCK LOCATED IN JANITOR CLOSET. ELECTRICAL SHALL PROVIDE TIME CLOCK.
5. FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM IT SERVES.
6. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
7. FAN SHALL BE CONTROLLED BY HOOD MANUFACTURER'S CONTROL SYSTEM WITH AN OVERRIDE TWO POSITION SWITCH.
8. DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN. PROVIDE MANUFACTURER'S NEMA 3R SAFETY DISCONNECT SWITCH.
9. PROVIDE MANUFACTURER'S VARIABLE SPEED CONTROL, THERMAL OVERLOAD PROTECTION, AND GREASE BOX.
10. DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN. PROVIDE CURB, FOAM CURB SEAL, SWITCH, NEMA-1, TOGGLE. PROVIDE MANUFACTURER'S ECM MOTOR.
11. INTERLOCK FAN WITH DISHWASHER TO TURN ON FAN WHEN DISHWASHER IS ON. PROVIDE EMERGENCY OVERRIDE SWITCH. REFER TO DRAWING FOR SWITCH LOCATION.
12. MANUFACTURER SHALL PROVIDE COMPATIBLE METAL ROOF CURB FOR EXHAUST FAN.

HEAT PUMP AIR HANDLING UNIT SCHEDULE

MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. SP. IN. W.G.	EVAP. FAN HP	EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS (MBH)		SUPPL. HEAT KW	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
					DB °F	WB °F	DB °F	WB °F	TOTAL	SENSIBLE					
AH-1	1,050	150	0.60	3/4	75.0	62.5	55.0	54.0	31.4	24.9	7.5	250	208/1	FV4CNB006L00	1:2:3:4:5:6:7:8:9
AH-2	1,050	150	0.60	3/4	75.0	62.5	55.0	54.0	31.4	24.9	7.5	250	208/1	FV4CNB006L00	1:2:3:4:5:6:7:8:10:11:12
AH-3	700	100	0.60	1/2	75.0	62.5	55.0	54.0	21.0	17.0	6.0	250	208/1	FV4CNF003L00	1:2:3:4:5:6:7:8:9
AH-4	700	100	0.60	1/2	75.0	62.5	55.0	54.0	21.0	17.0	6.0	250	208/1	FV4CNF003L00	1:2:3:4:5:6:7:8:9
AH-5	1,050	150	0.60	3/4	75.0	62.5	55.0	54.0	31.4	24.9	7.5	250	208/1	FV4CNB006L00	1:2:3:4:5:6:7:8:9
AH-6	1,050	150	0.60	3/4	75.0	62.5	55.0	54.0	31.4	24.9	7.5	250	208/1	FV4CNB006L00	1:2:3:4:5:6:7:8:9
AH-7	1,050	150	0.60	3/4	75.0	62.5	55.0	54.0	31.4	24.9	7.5	250	208/1	FV4CNB006L00	1:2:3:4:5:6:7:8:9
AH-8	700	100	0.60	1/2	75.0	62.5	55.0	54.0	21.0	17.0	6.0	250	208/1	FV4CNF003L00	1:2:3:4:5:6:7:8:9
AH-9	1,050	150	0.60	3/4	75.0	62.5	55.0	54.0	31.4	24.9	7.5	250	208/1	FV4CNB006L00	1:2:3:4:5:6:7:8:9

1. UNIT AT 208/1ø AUXILIARY HEATER AT 208/1ø. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.
4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE PIPING TO OUTSIDE.
5. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN INCASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.
6. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT. PROVIDE A TEST STATION ACCESSIBLE FROM THE FLOOR FOR EACH DETECTOR.
7. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.
8. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.
9. PROVIDE 24/7 365 DAY PROGRAMMABLE THERMOSTAT. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM FOR FAN COIL UNIT.
10. PROVIDE ECOBEE3 THERMOSTAT WITH TWO SMART SENORES. LOCATES SENORES AND THERMOSTAT AS PER NEW WORK PLAN.
11. THERMOSTAT AND SENORES SHALL WORK TOGETHER TO GET AN AVERAGE TEMPERATURE OF OCCUPIED SPACE.
12. PROVIDE GLOBAL PLASMA IONIZATION SYSTEM FOR FAN COIL UNIT.

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Children's Imagination Station
Location: Valdosta, Georgia
Climate Zone: 2a
Project Type: Addition

Construction Site:
512 North Ashley Street
Valdosta, GA 31601

Owner/Agent:

Designer/Contractor:
Krunal Patel
Total Engineers
169 New St
Macon, GA 31201
478-741-4632
krunalpatel@totalengineers.com

Mechanical Systems List

Quantity — System Type & Description

1 — HP-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 52 kBtu/h,
Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 52 kBtu/h,
Proposed Efficiency = 16.00 SEER, Required Efficiency: 14.00 SEER
Fan System: None

1 — HP-2 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 36 kBtu/h,
Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 36 kBtu/h,
Proposed Efficiency = 16.00 SEER, Required Efficiency: 14.00 SEER
Fan System: None

1 — HPU-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 18 kBtu/h,
Proposed Efficiency = 9.60 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 18 kBtu/h,
Proposed Efficiency = 19.50 SEER, Required Efficiency: 14.00 SEER
Fan System: None

1 — HPU-2 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 12 kBtu/h,
Proposed Efficiency = 10.60 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 12 kBtu/h,
Proposed Efficiency = 21.50 SEER, Required Efficiency: 14.00 SEER
Fan System: None

3 — RTU-1 2 3 (Single Zone):
Heating: 3 each - Unit Heater, Electric, Capacity = 22 kBtu/h
No minimum efficiency requirement applies
Cooling: 3 each - Single Package DX Unit, Capacity = 36 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 17.40 SEER, Required Efficiency: 14.00 SEER

Project Title: Children's Imagination Station — Report date: 08/27/24

Quantity — System Type & Description

Fan System: None

1 — WH:
Electric Storage Water Heater, Capacity: 43 gallons
Proposed Efficiency: 0.98 SL, %/h (if > 12 kW), Required Efficiency: 0.98 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical 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 Inspection Checklist.

Krunal.M Patel — 8-27-24
Name - Title — Signature — Date

Project Title: Children's Imagination Station — Report date: 08/27/24

1 COMCHECK COMPLIANCE CERTIFICATE
SCALE: N.T.S.

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
ZD E16	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
VAC, PH	VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
W, KW	WATTS, KILOWATTS
AD AD	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
MOD	MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)

GRAVITY VENTILATOR SCHEDULE

MARK	SERVICE	THROAT AREA SF	INTAKE AREA SF	MAX CFM	THROAT	GREENHECK MODEL	NOTES
GV-1	INTAKE	1.12	2.57	650	14"ø	GRSI 15	1
GV-2	INTAKE	1.12	2.57	550	14"ø	GRSI 15	1

1. SPUN ALUMINUM GRAVITY VENTILATOR.

AIR COOLED HEATPUMP UNIT SCHEDULE

MARK	AHU SERVED	HEAT PUMP HEATING CAP (MBH)	SEER2	HSPF2	NOM. CAP.	REFRIG	OA TEMP SUMMER (DB)	OA TEMP WINTER (DB)	WEIGHT (LBS)	POWER VAC/PH	BASIS OF DESIGN CARRIER	NOTES
HP-1	AH-1	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-2	AH-2	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-3	AH-3	15.8	16.0	8.1	2.0	R410A	96	23	350	208/1	25TPA724A003	1:2:3:4:5:6
HP-4	AH-4	15.8	16.0	8.1	2.0	R410A	96	23	350	208/1	25TPA724A003	1:2:3:4:5:6
HP-5	AH-5	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-6	AH-6	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-7	AH-7	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6
HP-8	AH-8	15.8	16.0	8.1	2.0	R410A	96	23	350	208/1	25TPA724A003	1:2:3:4:5:6
HP-9	AH-9	23.8	17.0	8.1	3.0	R410A	96	23	350	208/1	25TPA736A003	1:2:3:4:5:6

1. PROVIDE WITH DEFROST CONTROLS, LOW AMBIENT HEAD PRESSURE CONTROLS, AND ANTI-SHORT CYCLE TIMER. PROVIDE COIL GUARD.
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
3. PROVIDE LIQUID LINE SOLENOID, CRANKCASE HEATER, TXV, START CAPACITOR AND RELAY AS RECOMMENDED BY MANUFACTURER FOR LONG LINE APPLICATIONS.
4. PROVIDE MOUNTING PAD AS PER DETAIL PROVIDED.
5. 2-STAGE COMPRESSOR UNIT.
6. PROVIDE LONG LINE ACCESSORIES PER NOTE 3 WHERE REFRIGERANT PIPE LENGTHS EXCEEDS 80-EQUIVLENT FEET.

MINI SPLIT SYSTEM SCHEDULE

OUTDOOR UNIT MARK	INDOOR UNIT MARK	MIN COOLING MBH	MIN HEATING MBH @ 47F	SUPPLY AIR CFM	POWER VAC/PH	SEER	HSPF	CARRIER MODEL # OUTDOOR	CARRIER MODEL # INDOOR	SERVES	NOTES
HPU-1	ACU-1	17.5	18.0	680	208/1	19.5	9.6	38MAQB18---3	40MAQB18B---3	123 MDF	1:2:3:4:5:6:7:8:9:10

1. VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION.
2. ROUTE CONDENSATE AS NOTED ON PLANS. COORDINATE WITH PLUMBING.
3. CONDENSATE DRAIN SHALL BE PVC.
4. CONTRACTOR MUST COORDINATE EXACT LOCATION OF DRAIN IN THE FIELD WITH PLUMBING CONTRACTOR. MECHANICAL MUST ROUTE CONDENSATE TO APPROPRIATE LOCATION OF DISPOSAL.
5. PROVIDE DISCONNECT AND ELECTRICAL CONNTECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER XSAOND501AAA.
7. PROVIDE RECTOR SEAL SS810E CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.
8. MINI SPLIT SYSTEM MOUNTED ON WALL (SEE PLANS). PROVIDE MANUFACTURER'S WIRED THERMOSTAT.
9. PROVIDE FLOAT ACTIVATED CONDENSATE PUMP TO PUMP CONDENSATE DOWN TO DRAIN WHERE REQUIRED. PUMP SHALL BE INTEGRAL TO THE UNIT CABINET.

SELF-CLEANING IONIZATION SYSTEM SCHEDULE

AIRFLOW CAPACITY MIN-MAX CFM	BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS	NOTES
0-2400	GPS-FC24-AC	1:2:3:4:5

1. ONE SELF CLEANING IONIZATION SYSTEM SHALL BE INSTALLED PER SYSTEM.
2. UNIT SHALL BE EQUIPPED WITH UNIVERSAL VOLTAGE INPUT, IN-LINE ON-OFF SWITCH, PROGRAMMABLE AUTO-CLEANING CYCLE.
3. UNIT SHALL BE EQUIPPED WITH PLASMA ON INDICATION LIGHT, ALARM CONTACTS, MAGNETS, AND CARBON FIBER BRUSH EMITTERS.
4. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
5. USE THIS SYSTEM FOR UP TO 5-TON AIR HANDLING UNITS.

AIR DEVICE SCHEDULE

MARK	SERVICE	NECK SIZE	SIZE	MATERIAL	TYPE	PATTERN	MOUNTING TYPE	LAYOUT BASIS:	NOTES
S1	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:3
S2	SUPPLY	SEE PLANS	NECK + 1-3/4"	STEEL	DOUBLE DEFLECTION REGISTER	2-WAY	SURFACE	TITUS 300RS	3:7
S3	SUPPLY	SEE PLANS	48"-4 SLOT	ALUMINUM	LINEAR SLOT	1-WAY	SURFACE	TITUS ML-38	3:4:5
S4	SUPPLY	SEE PLANS	24" X 24"	STEEL	SQUARE CONC.	4-WAY	SURFACE	TITUS TMS	1:2:3
S5	SUPPLY	SEE PLANS	12" X 12"	STEEL	SQUARE CONC.	4-WAY	LAY-IN	TITUS TMS	1:2:3
S6	SUPPLY	SEE PLANS	NECK-3/4"	ALUMINUM	LINEAR BAR	1-WAY	SURFACE SIDEWALL	TITUS CT-580	3:8:9
R1	RETURN	SEE PLANS	24"X24"	ALUMINUM	EGGCRATE	---	LAY-IN	TITUS 50F	1:6
R2	RETURN	SEE PLANS	24"X24"	ALUMINUM	EGGCRATE	---	SURFACE	TITUS 50F	1:6
R3	RETURN	SEE PLANS	24"X12"	ALUMINUM	EGGCRATE	---	LAY-IN	TITUS 50F	1:6

1. PROVIDE STANDARD WHITE FINISH.
2. INSULATE BACK OF DEVICE.
3. BALANCE AIRFLOW TO QUANTITY SHOWN.
4. 4'-0" LENGTH AS STANDARD. PROVIDE FACTORY INSULATED PLENUM ON TOP OF DIFFUSER FOR DUCT CONNECTION. CONSULT ARCHITECT FOR DIFFUSER FINISH.
5. PROVIDE CONCEALED FASTENING, FLUSH MOUNT FRAME, AND BORDER.
6. PROVIDE FULL SIZE SHEET METAL PLENUM ON TOP OF GRILLE FOR CONNECTION TO DUCT.
7. PROVIDE OPPOSED BLADE DAMPER(OBD) THAT IS ACCESSIBLE FROM THE FACE OF DIFFUSER. GRILLE SHALL BE SAME COLOR AS WALL IT IS MOUNTED ON. SET GRILL FOR 22.5-DEGREE DEFLECTION

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MECHANICAL SCHEDULES

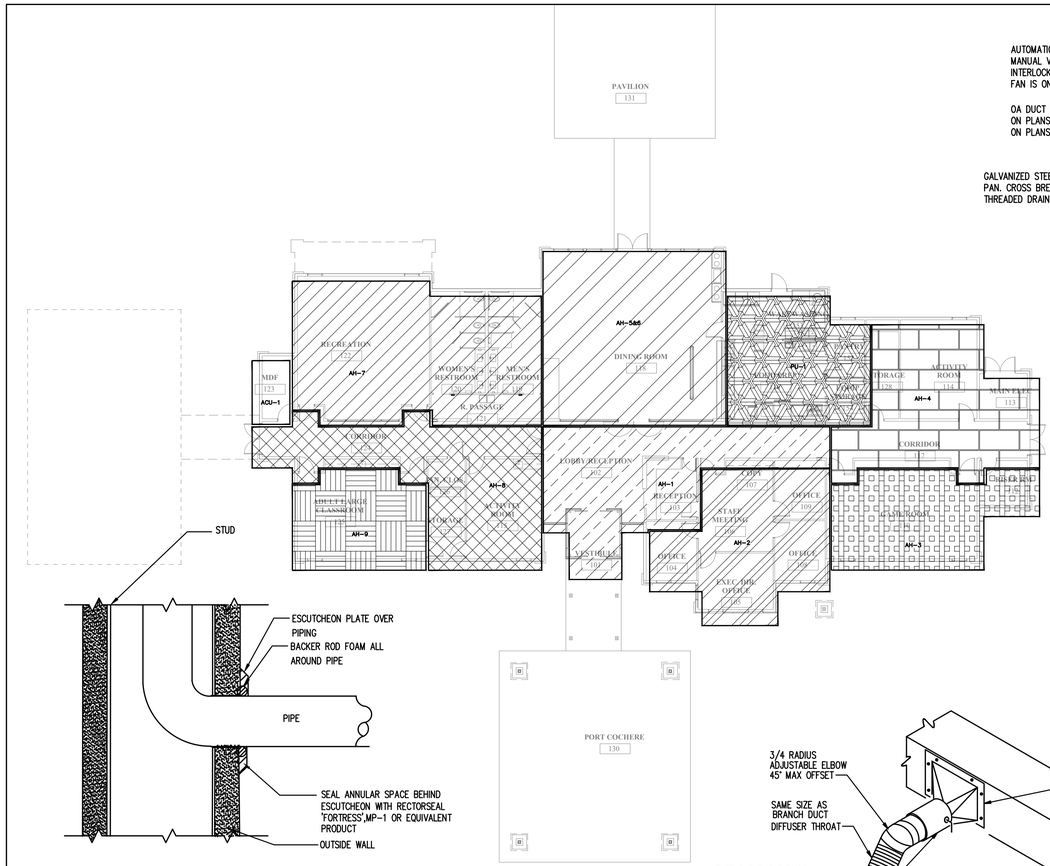
New Facility
Newton County Enrichment Center

Richard Chapel Road — Covington, Georgia

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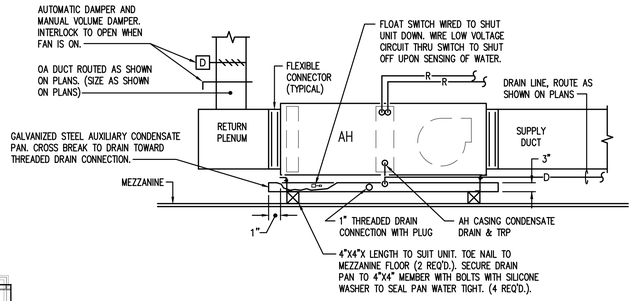
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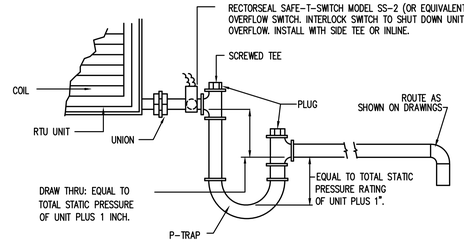


1 CONDENSATE PIPE SLEEVE THROUGH WALL DETAIL
SCALE: N.T.S.

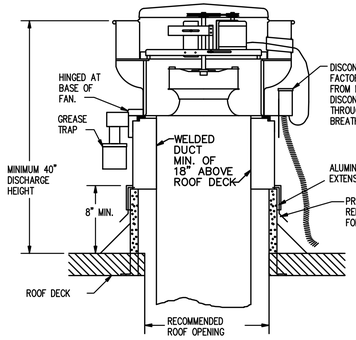
2 MECHANICAL ZONING PLAN
SCALE: N.T.S



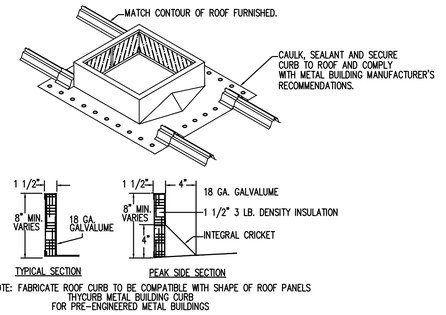
4 AHU ON MEZZANINE WITH AUXILIARY CONDENSATE PAN
SCALE: N.T.S.



5 CONDENSATE DRAIN DETAIL
SCALE: N.T.S.

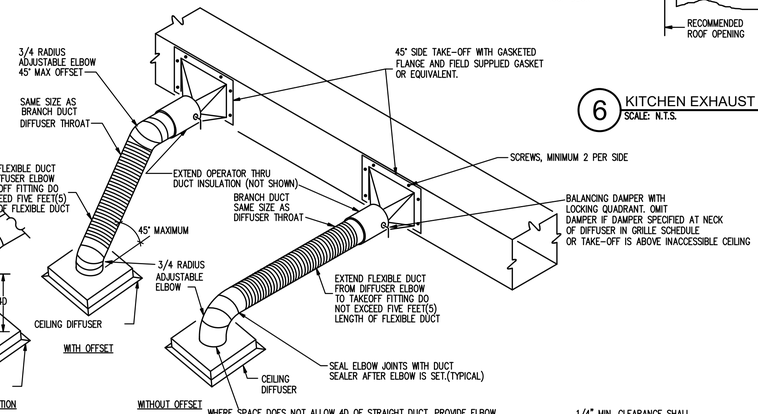


6 KITCHEN EXHAUST FAN DETAIL
SCALE: N.T.S.

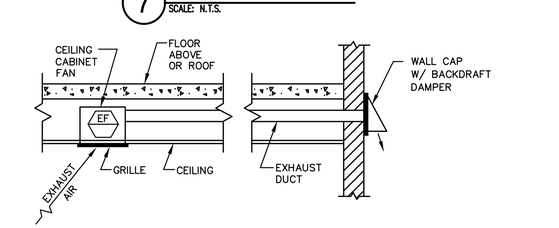


NOTE: FABRICATE ROOF CURB TO BE COMPATIBLE WITH SHAPE OF ROOF PANELS THYCURB METAL BUILDING CURB FOR PRE-ENGINEERED METAL BUILDINGS

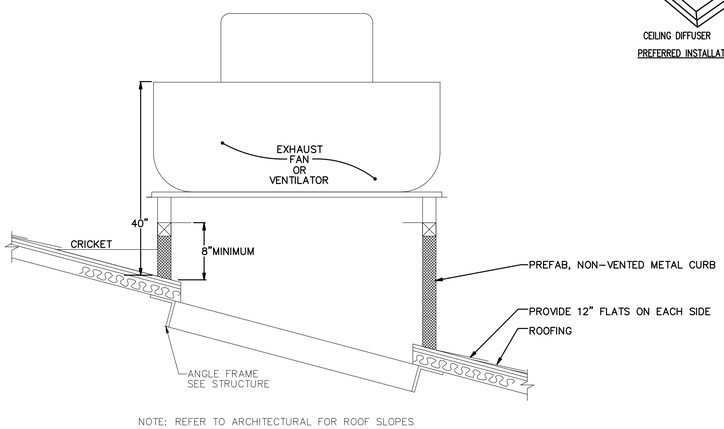
7 METAL ROOF CURB DETAIL
SCALE: N.T.S.



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

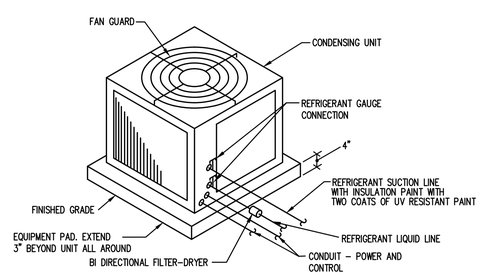


8 CEILING EXHAUST FAN W/SIDEWALL DISCHARGE-DETAIL
SCALE: N.T.S.



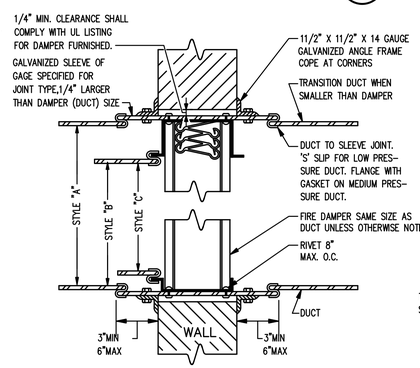
NOTE: REFER TO ARCHITECTURAL FOR ROOF SLOPES

9 FAN/VENTILATOR ON SLOPPED ROOF-DETAIL
SCALE: N.T.S.



NOTE:
1) THIS DETAIL IS FOR HEAT PUMP UNIT 5 TONS AND UNDER
2) PROVIDE 4"X4"WELDED WIRE MESH REINFORCING AT CENTER LINE FOR THE CONCRETE PAD.
3) PAD MAY BE PREFABRICATED DIVERSITECH ULTRALITE EQUIPMENT PAD OR EQUIVALENT.
3) PAD MAY BE PREFABRICATED DIVERSITECH ULTRALITE EQUIPMENT PAD OR EQUIVALENT.
4) PAD MAY BE OMITTED WHERE CONCRETE PAD IS PROVIDED BY CIVIL.

10 AIRCOOLED CONDENSING UNIT SLAB MOUNTED
SCALE: N.T.S.



ALL FIRE DAMPERS ON THE PROJECT SHALL BE STYLE 'A' TYPE FIRE DAMPERS UNLESS OTHERWISE NOTED. DAMPERS LOCATED IN MEDIUM OR HIGH PRESSURE DUCTWORK SHALL BE STYLE 'C' FIRE DAMPERS. WHERE DAMPERS ARE INSTALLED IN DRYWALL PARTITION, STUD FRAMING SHALL BE PROVIDED ON ALL FOUR SIDES ON DAMPER.

11 FIRE DAMPER DETAIL
SCALE: N.T.S.

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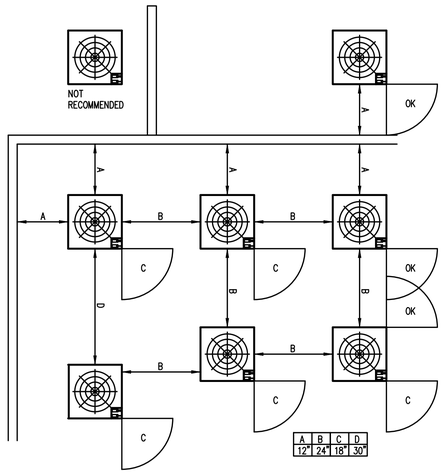
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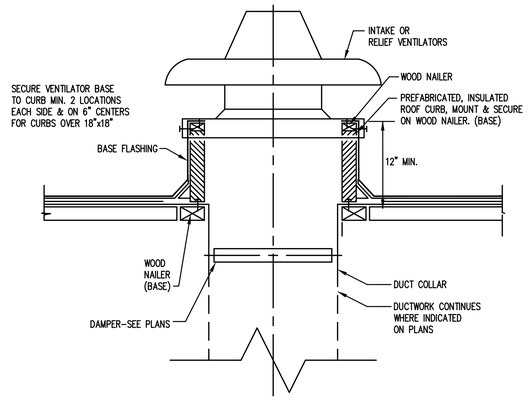
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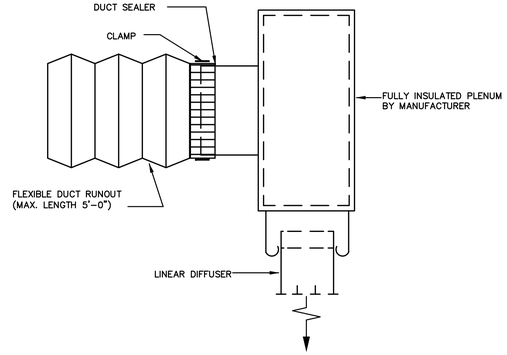


NOTE: SUBCONTRACTOR SHALL VERIFY CONDENSER CABINET SIZE AND MANUFACTURER CLEARANCES AND SUBMIT PAD SHOP DRAWINGS INDICATING SUCH FOR ENGINEER'S APPROVAL

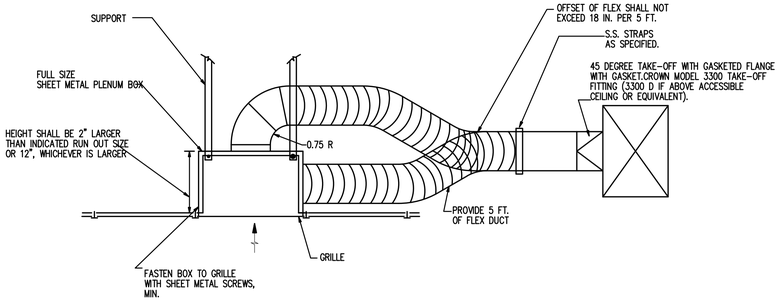
1 CONDENSER SPACING DETAIL
SCALE: N.T.S.



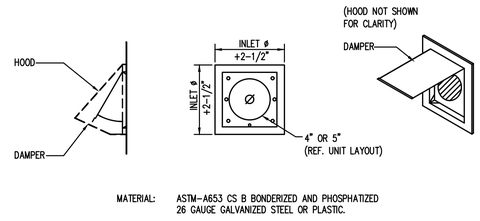
2 ROOF INTAKE VENTILATOR DETAIL
SCALE: N.T.S.



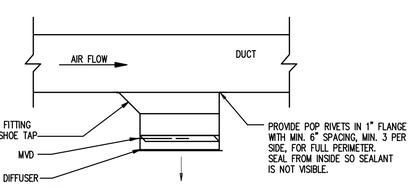
3 LINEAR SLOT DIFFUSER - DETAIL
SCALE: N.T.S.



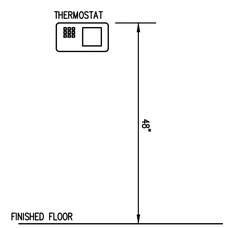
4 TYPICAL GRILLE WITH LINED PLENUM DETAIL
SCALE: N.T.S.



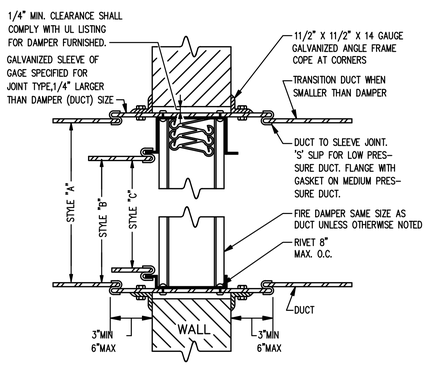
5 M&M MGF. VENT CAP DTL (MODEL VSBLVO)
SCALE: N.T.S.



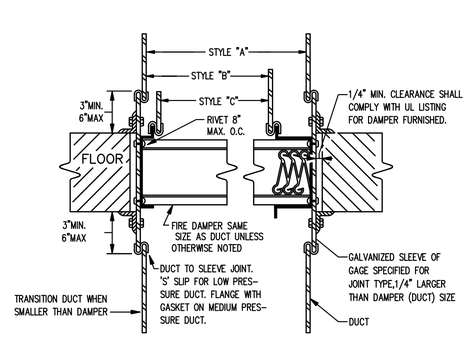
6 DUCT MOUNTED DIFFUSER DETAIL
SCALE: N.T.S.



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



VERTICAL FIRE DAMPER



HORIZONTAL FIRE DAMPER

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8 FIRE DAMPER DETAIL
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HOOD INFORMATION – JOB#6680469

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM SIZE(IN) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	HOOD CONFIG ROW
1	DH-1	4824 VHB-G	CAPTIVEAIRE	4' 0"	700 DEG	II	N/A	150	600				4"	10"	600	1100	-0.090"	ALONE	ALONE
2	KH-1	5424 ND-2	CAPTIVEAIRE	8' 1"	600 DEG	I	HEAVY	186	1500				4"	14"	1500	1403	-0.485"	ALONE	ALONE
																	430 SS 100E WHERE EXPOSED		

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM ELECTRICAL TYPE	SIZE	SWITCHES MODEL #	QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	DH-1						0									NO	175 LBS
2	KH-1	CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	764 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	DH-1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
2	KH-1	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.
		BACKSPLASH – 122.00" HIGH X 128.00" LONG 430 SS VERTICAL.
		LEFT SIDESPLASH 122.00" HIGH X 72.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 3" WIDE 54" LONG INSULATED.
		BACKSPLASH – INSIDE CORNER 80.00" HIGH X 2.00" LEG LENGTH 430 SS VERTICAL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT WALL AS END PANEL.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL–1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

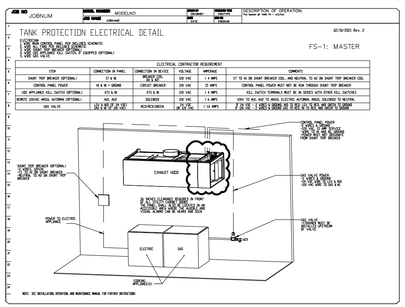
IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL–2221 OR UL–103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW– 2R, 2R TYPE HT, 3R, OR 32" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

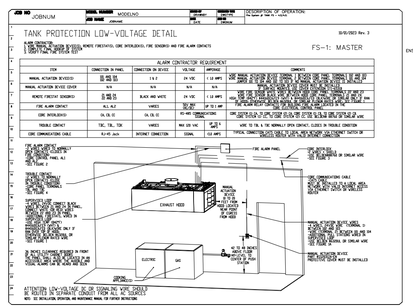
EXHAUST FAN INFORMATION – JOB#6680469

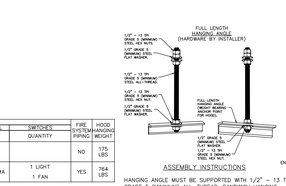
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF–1	1	DUB315FA	CAPTIVEAIRE	1500	0.750	1175	TEAO–ECM	0.750	0.2860	1	115	8.9	475 FPM	90	8.9
2	DEF–1	1	DU33HFA	CAPTIVEAIRE	600	0.250	1147	TEAO–ECM	0.333	0.0910	1	115	4.3	297 FPM	68	9.2

ELECTRICAL PACKAGE – JOB#6680469

NO	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	SWITCHES QUANTITY	OPTION	FANS CONTROLLED TAG	TYPE	#	HP	VOLT	FLA
1		SC–311110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	KEF–1	EXHAUST	1	0.750	115	8.9
				HOOD # 2	1 FAN		RTU–1	SUPPLY	3	3.000	208	8.9

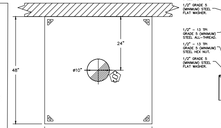






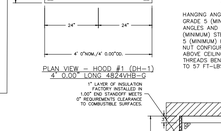
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL–THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT–LBS.

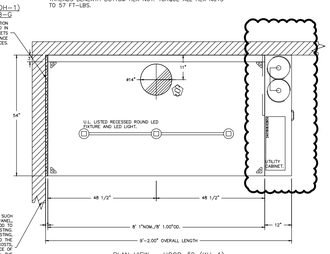


ASSEMBLY INSTRUCTIONS

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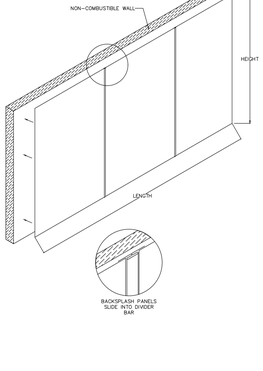


PLAN VIEW – HOOD #1 (DH–1)
4' 0.00" LONG 4824VHB–G

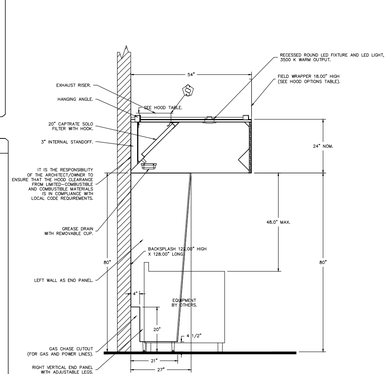


PLAN VIEW – HOOD #2 (KH–1)
8' 1.00" LONG 5424ND–2

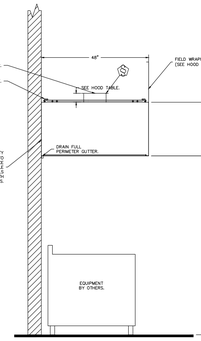
INSTALLER MUST CONFIRM HOOD IS INSTALLED SUCH THAT THE SPECIFIED WALL ACTING AS AN END PANEL EXTENDS NO LESS THAN 20" FROM THE INTERSECTING WALL TO ACHIEVE A REDUCED MINIMUM EXHAUST CFM LISTING. NON–COMPLIANCE WILL NULLIFY THE ETL LISTING, VOID THE WARRANTY AND MAY RESULT IN THE LOSS OF CONTRACTOR LIABILITY FOR ANY AND ALL LOSSES, COSTS, AND EXPENSES RELATED TO THE NON–CONFORMANCE OF THE INSTALLATION. INSTALLER MUST CONFIRM THAT THE WALL ACTING AS AN END PANEL MUST EXTEND NO LESS THAN 20" FROM THE INTERSECTING WALL ON WHICH HOOD IS MOUNTED AND MUST EXTEND AT LEAST 6" ABOVE THE BOTTOM OF HOOD TO BE ELIGIBLE FOR REDUCED MINIMUM EXHAUST CFM LISTING.



– BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS



SECTION VIEW – MODEL 5424ND–2
HOOD – #2 (KH–1)



IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE TO ADJACENT COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

SECTION VIEW – MODEL 4824VHB–G
HOOD – #1 (DH–1)

FIRE SYSTEM INFORMATION – JOB#6680469

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION SYSTEM	INSTALLATION LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	23	FIRE CABINET RIGHT	RIGHT, HOOD 2

ELECTRICAL

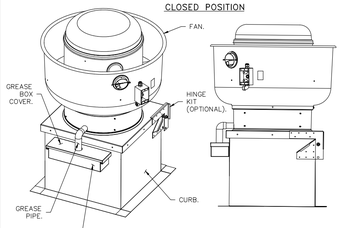
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

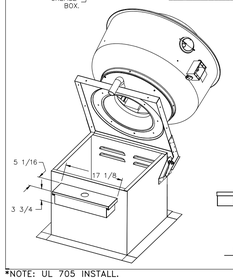
FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 – 0 – TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – TANK FIRE SUPPRESSION POST–DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – 12–F28021–32144–OT–360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	1	0
		0 – 0 – 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 – 0 – 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 – 0 – 79525 1/2" 90 PRO–PRESS ELBOW WITH 1/2"NPT FEMALE CONNECTION, VEGA.	1	0
		0 – 0 – 79580 1/2" X 1/2" PRO–PRESS TEE X 1/2"NPT FEMALE CONNECTION, VEGA.	2	0
		0 – 0 – 97–120042–001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87–120045–001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87–300001–001 TANK – PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 87–300030–001 PRIMARY ACTUATOR KIT (PAK) – ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87–300152–001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 – 0 – 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 – 0 – A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 – 0 – A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 – 0 – DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TANK STRAP TANK STRAP – USED FOR TANK FIRE SUPPRESSION.	6	0
		0 – 0 – TFS–UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 89C–283952–000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		34 – 34 – A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0
		ADDITIONAL PARTS TO BE DETERMINED...		

GREASE BOX INSTALLATION

CLOSED POSITION



OPEN POSITION



*NOTE: UL 705 INSTALL.

PARTS INCLUDED

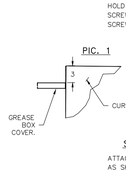
GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.

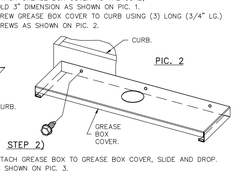
SHEET METAL SCREWS
3 – LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

STEP 1)

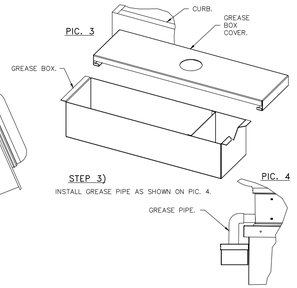
ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.





STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP. AS SHOWN ON PIC. 3.



STEP 3)

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

GREASEBOX REV.#2 09/19/22

FAN #1 DU30HFA – EXHAUST FAN DEF–1

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF–1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL – DU/DRB9HFA – INSTALLED AT PLANT – FOR GREASE DUCTS
		1	ECM WIRING PACKAGE – PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	DEF–1	1	ECM WIRING PACKAGE – MANUAL OR 0–10VDC REFERENCE SPEED CONTROL –RTC– (TELCO MOTOR), CCW ROTATION
		1	SCR–11 BIRD SCREEN
		1	15–BDD DAMPER
		2	YEAR PARTS WARRANTY
3	RTU–1	1	INLET PRESSURE GAUGE, 0–35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	RTU TOTAL CFM MONITORING
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON–DCV PREWIRE CONTROLS THIS UNIT, THE #2B, #47, "MA", OR "C2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM – INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU2 DOWN DISCHARGE
		1	2" MERV 13 FILTERS FOR RTU2 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU2 (QTY. 4)
		1	OVERHEAT STAT
		1	10 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	10 TON MODULATING REHEAT OPTION – SPACE DEWPOINT CONTROL
		1	3/4", 10 PSI HIGH GAS PRESSURE REGULATOR
		1	OCCUPIED SCHEDULING
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK – ALARM SUPPLIED BY OTHERS
		1	CLOGGED FILTER SWITCH – NOTIFICATION ON HMI
		1	RTU2 CONVENIENCE OUTLET (GFCI), 15 AMP – REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J–BOX
		1	RTU2 HAIL GUARD
		1	RTU2 DOWN RETURN
		1	RTU INTAKE/RETURN DAMPER – MANUAL CONTROL VIA HMI
		1	VAV PACKAGE W/ MANUAL/DCC CONTROL (STI VFD INCLUDED)
		1	UNIT MOUNTED VFD CONFIGURED FOR DCV
		1	24VAC FIRE INPUT
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)

FAN ACCESSORIES

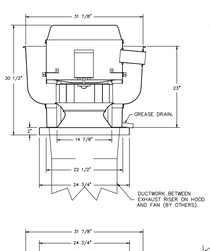
FAN UNIT NO	TAG	EXHAUST GREASE CUP	EXHAUST GRAVITY DAMPER	EXHAUST WALL MOUNT	SUPPLY SIDE DISCHARGE	SUPPLY GRAVITY DAMPER	SUPPLY MOTORIZED DAMPER	SUPPLY WALL MOUNT
1	KEF–1	YES						
2	DEF–1		YES					

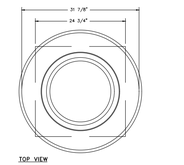
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF–1	41 LBS	CURB	23.000"W X 23.000"L X 24.000"H 4.000:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	DEF–1	18 LBS	CURB	19.500"W X 19.500"L X 14.000"H 4.000:12.000 PITCH ALONG LENGTH, RIGHT.
3	# 3	RTU–1	167 LBS	CURB	49.500"W X 75.000"L X 36.000"H INSULATED.

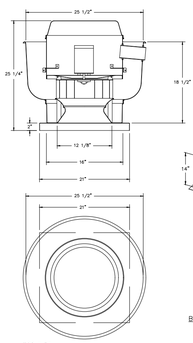
HMI SCHEDULE

UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #3	HMI #1 – UNIT	MOUNTED IN UNIT	NOT AVERAGED	55
FAN #3	HMI #2 – SPACE	HMI # 1	AVERAGED	56





FAN #2 DU33HFA – EXHAUST FAN DEF–1

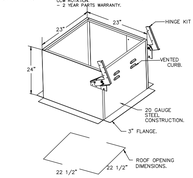


FEATURES:
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- ULTOS AND ULTR2 AND ULC–S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION: TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL–TEMPERATURE: 350°
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (149°C) FOR A PERIOD OF NOT LESS THAN 15 MINUTES WITH THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLAME–UP: 1550°
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

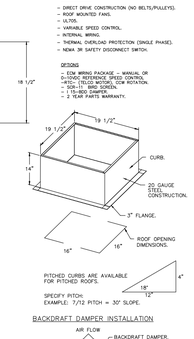
OPTIONS
- GREASE BOX.
- FAN BASE CERAMIC SEAL – DU/DRB9HFA – INSTALLED AT PLANT – FOR GREASE DUCTS.
- ECM WIRING PACKAGE – PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



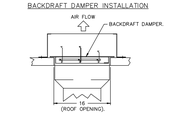
FAN #2 DU33HFA – EXHAUST FAN DEF–1

FEATURES:
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- ULTOS.
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.

OPTIONS
- ECM WIRING PACKAGE – MANUAL OR 0–10VDC REFERENCE SPEED CONTROL.
- SCR–11 BIRD SCREEN. CCW ROTATION.
- 1 15–BDD DAMPER.
- 2 YEAR PARTS WARRANTY.



BACKDRAFT DAMPER INSTALLATION



NOTE: REFER TO MANUFACTURER'S SUBMITTAL FOR FURTHER INFORMATION. MANUFACTURER'S SUBMITTAL TAKES PRECEDENCE OVER THIS INFORMATION.

1 KITCHEN HOOD - DETAIL
SCALE: NTS

ALPHA BLDG SET 09-04-2024

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CONSULTANT

GEORGIA REGISTERED NO. 036854 PROFESSIONAL ENGINEER KRUNAL M. PATEL
STAMP INVALID UNLESS SIGNED

MECHANICAL DETAILS

New Facility Newton County Enrichment Center

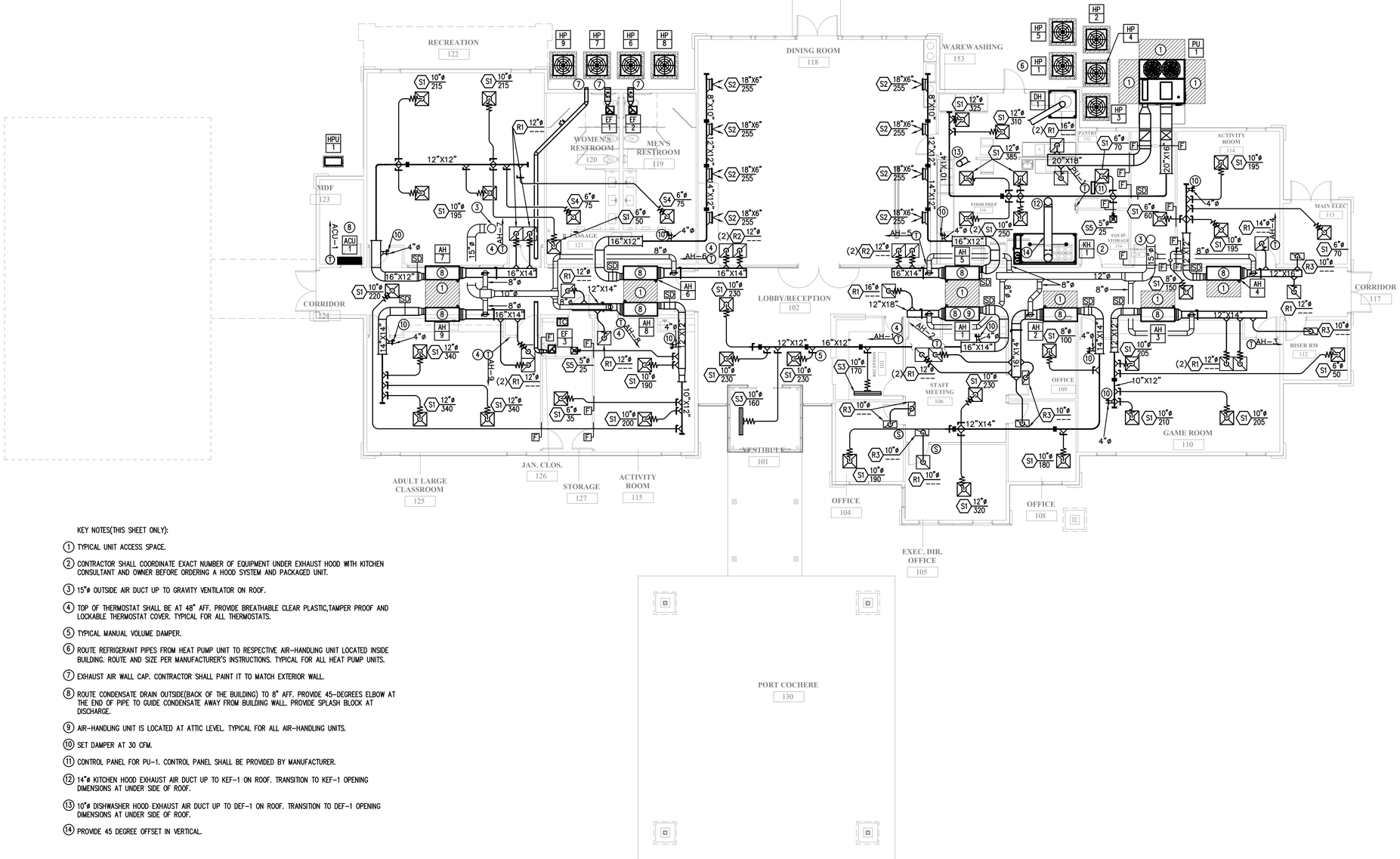
Richard Chapel Road
Covington, Georgia

JOB NO.:	2309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04-04-24/07.03.2024 VE
REVISIONS:	
1	
2	
3	
4	
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SHEET
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OF



KEY NOTES(THIS SHEET ONLY):

1. TYPICAL UNIT ACCESS SPACE.
2. CONTRACTOR SHALL COORDINATE EXACT NUMBER OF EQUIPMENT UNDER EXHAUST HOOD WITH KITCHEN CONSULTANT AND OWNER BEFORE ORDERING A HOOD SYSTEM AND PACKAGED UNIT.
3. 15"ø OUTSIDE AIR DUCT UP TO GRAVITY VENTILATOR ON ROOF.
4. TOP OF THERMOSTAT SHALL BE AT 48" AFF. PROVIDE BREATHABLE CLEAR PLASTIC,TAMPER PROOF AND LOCKABLE THERMOSTAT COVER. TYPICAL FOR ALL THERMOSTATS.
5. TYPICAL MANUAL VOLUME DAMPER.
6. ROUTE REFRIGERANT PIPES FROM HEAT PUMP UNIT TO RESPECTIVE AIR-HANDLING UNIT LOCATED INSIDE BUILDING. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS. TYPICAL FOR ALL HEAT PUMP UNITS.
7. EXHAUST AIR WALL CAP. CONTRACTOR SHALL PAINT IT TO MATCH EXTERIOR WALL.
8. ROUTE CONDENSATE DRAIN OUTSIDE(BACK OF THE BUILDING) TO 8" AFF. PROVIDE 45-DEGREES ELBOW AT THE END OF PIPE TO GUIDE CONDENSATE AWAY FROM BUILDING WALL. PROVIDE SPLASH BLOCK AT DISCHARGE.
9. AIR-HANDLING UNIT IS LOCATED AT ATTIC LEVEL. TYPICAL FOR ALL AIR-HANDLING UNITS.
10. SET DAMPER AT 30 CFM.
11. CONTROL PANEL FOR PU-1. CONTROL PANEL SHALL BE PROVIDED BY MANUFACTURER.
12. 14"ø KITCHEN HOOD EXHAUST AIR DUCT UP TO KEF-1 ON ROOF. TRANSITION TO KEF-1 OPENING DIMENSIONS AT UNDER SIDE OF ROOF.
13. 10"ø DISHWASHER HOOD EXHAUST AIR DUCT UP TO DEF-1 ON ROOF. TRANSITION TO DEF-1 OPENING DIMENSIONS AT UNDER SIDE OF ROOF.
14. PROVIDE 45 DEGREE OFFSET IN VERTICAL.

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

ALPHA BLDG SET 09-04-2024

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GEORGIA REGISTERED NO. 036854 PROFESSIONAL ENGINEER KRUNAL M. PATEL
STAMP INVALID UNLESS SIGNED

MECHANICAL PLAN

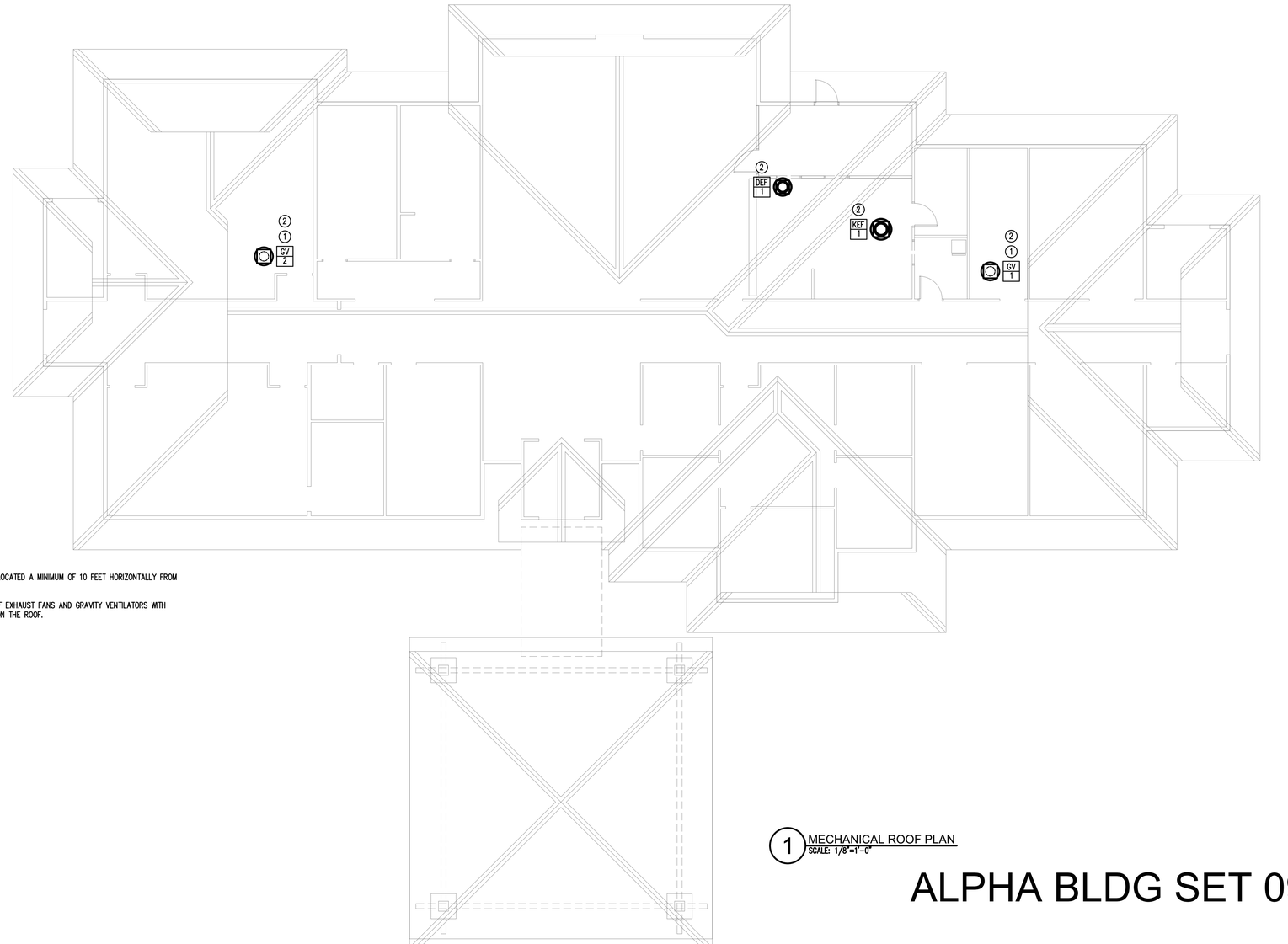
New Facility
Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

JOB NO.:	2309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04-04-24/07.03.2024 VE
REVISIONS:	
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KEY NOTES(THIS SHEET ONLY):

1. GRAVITY OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10 FEET HORIZONTALLY FROM PLUMBING VTR AND EXHAUSTS.
2. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EXHAUST FANS AND GRAVITY VENTILATORS WITH ARCHITECTURAL DRAWINGS BEFORE LOCATING THEM ON THE ROOF.

1 MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"

ALPHA BLDG SET 09-04-2024

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GEORGIA REGISTERED PROFESSIONAL ENGINEER KRUNAL M. PATEL NO. 036854
STAMP INVALID UNLESS SIGNED

MECHANICAL ROOF PLAN

New Facility Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

JOB NO.:	2309
DRAWN BY:	GM
CHECKED BY:	GM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04-04-24/07.03.2024 VE
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ELECTRICAL SPECIFICATIONS

DIVISION 26

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO NEWTON COUNTY ENRICHMENT CENTER, CONVINGTON, 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 2020 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 120/277 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 (TYPE "TR").

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 1 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 1ENCLOSURES 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, GENERAL ELECTRIC (GE), SEIMENS, AND EATON. 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 IEVERY 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 BREAKERS, 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 LED FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING LED 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. DRIVERS 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 BIPHENYLS.
5. ALL LED FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. LED'S, DRIVERS 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 50,000 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, SIMPLEX, OR SILENT KNIGHT.
2. PROVIDE A COMPLETE OPERABLE VOICE EVAC FIRE ALARM 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 BE PROVIDED WITH BATTERY BACKUP AND CHARGER. THE BATTERY SHALL BE CAPABLE OF PROVIDING NORMAL OPERATION FOR A PERIOD OF 24 HOURS WITH ENOUGH RESERVE TO ANNUCIATE 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 SURFACE MOUNTED.
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.
6. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELA.
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.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	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, 51 WATTS, 3500 DEGREE K DRIVER: UNV.VOLT	METALUX "ACHIEVA" SER., LITHONIA "STACK" SER., COLUMBIA "CCL" SER., OR APPROVED EQUAL
B	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, 5000 LUMENS, 42 WATTS, 3500 DEGREE K DRIVER: UNV.VOLT	METALUX "ACHIEVA" SER., LITHONIA "STACK" SER., COLUMBIA "CCL" SER., OR APPROVED EQUAL
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, 4000 LUMENS, 34 WATTS, 3500 DEGREE K DRIVER: UNV.VOLT	METALUX "ACHIEVA" SER., LITHONIA "STACK" SER., COLUMBIA "CCL" SER., OR APPROVED EQUAL
CS	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. PROVIDE FIXTURE WITH SURFACE MOUNT KIT. LAMPS: LED, 4000 LUMENS, 34 WATTS, 3500 DEGREE K DRIVER: UNV.VOLT	METALUX "ACHIEVA" SER., LITHONIA "STACK" SER., COLUMBIA "CCL" SER., OR APPROVED EQUAL
D	COMMERCIAL GRADE DOWNLIGHT, RECESSED SELF FLANGED, 6 IN. ROUND APERTURE, SPECULAR REFLECTOR FINISH; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING. LAMPS: LED, 1500 LUMENS, 18 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	HALO COMMERCIAL "HC6" SER., LITHONIA "LDN6" SER., PRESCOLITE "LFR-6RD" SER., OR APPROVED EQUAL
E	4 FT. LED STRIPLIGHT WITH EXTRUDED ROUND ACRYLIC LENS, PENDANT MOUNTED, STANDARD 0-10 DIMMING. COORDINATE FINISH WITH OWNER. LAMPS: LED, 3600 LUMENS, 36 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	PRUDENTIAL LIGHTING "SNAP" SER., BARTCO "BSS205" SER., AXIS LIGHTING "AIR LED" SER., OR APPROVED EQUAL
F	LED MINI-PENDANT FIXTURE, ALUMINUM CONSTRUCTION, SMOKE GLASS DIFFUSER, STANDARD 0-10 DIMMING. LAMPS: LED, 500 LUMENS MINIMUM, 7 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	WAC LIGHTING "CHIC" SER., VISUAL COMFORT & CO., OR APPROVED EQUAL
G	LED ARCHITECTURAL CHANDELIER, NOMINAL 36 IN. DIAMETER, ALUMINUM HOUSING, AIRCRAFT CABLE SUSPENDED; STANDARD 0-10 DIMMING. COORDINATE FINISH WITH OWNER. LAMPS: LED, 3500 LUMENS MINIMUM DIRECT, 60 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	SPI LIGHTING "ZYNN RING" SER., LUMENWERX, BETA CALCO, OR APPROVED EQUAL
OA	COMMERCIAL GRADE DOWNLIGHT, RECESSED SELF FLANGED, 6 IN. ROUND APERTURE, SPECULAR REFLECTOR FINISH; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING; WET LOCATION LISTED. LAMPS: LED, 1500 LUMENS, 18 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	HALO COMMERCIAL "HC6" SER., LITHONIA "LDN6" SER., PRESCOLITE "LFR-6RD" SER., OR APPROVED EQUAL
OC	LED AREA LIGHT, DIE-CAST ALUMINUM HOUSING, PRECISION ACRYLIC REFRACTIVE LENS; ALUMINUM HEAT SINC; WET LOCATION LISTED; TYPE 4 WIDE DISTRIBUTION. PROVIDE 25 FT. SQUARE STEEL POLE. COORDINATE FINISH WITH OWNER. LAMPS: LED, 20000 LUMENS, 150 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "RSX2" SER., BEACON "VIPER" SER., LUMARK "PRV" SER., OR APPROVED EQUAL
OD	TWO HEAD LED AREA LIGHT, DIE-CAST ALUMINUM HOUSING, PRECISION ACRYLIC REFRACTIVE LENS; ALUMINUM HEAT SINC; WET LOCATION LISTED; TYPE 4 WIDE DISTRIBUTION. PROVIDE 25 FT. SQUARE STEEL POLE. COORDINATE FINISH WITH OWNER. LAMPS: LED, 20000 LUMENS (PER HEAD), 300 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "RSX2" SER., BEACON "VIPER" SER., LUMARK "PRV" SER., OR APPROVED EQUAL
OE	LED FLOOD LIGHT, DIE-CAST ALUMINUM HOUSING, PRECISION ACRYLIC REFRACTIVE LENS; ALUMINUM HEAT SINC; WET LOCATION LISTED; WIDE FLOOD DISTRIBUTION. PROVIDE 25 FT. SQUARE STEEL POLE. COORDINATE FINISH WITH OWNER. LAMPS: LED, 20000 LUMENS, 150 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	LITHONIA "RSXF2" SER., BEACON "VIPER FLOODLIGHT" SER., LUMARK., OR APPROVED EQUAL
OF	COMMERCIAL GRADE DOWNLIGHT, RECESSED SELF FLANGED, 6 IN. ROUND APERTURE, SPECULAR REFLECTOR FINISH; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING; WET LOCATION LISTED. LAMPS: LED, 1000 LUMENS, 11 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	HALO COMMERCIAL "HC6" SER., LITHONIA "LDN6" SER., PRESCOLITE "LFR-6RD" SER., OR APPROVED EQUAL
OG	EXTERIOR ARCHITECTURAL SCONCE TO BE SELECTED BY OWNER. PROVIDE $750 ALLOWANCE FOR FIXTURE ONLY. INSTALLATION ALSO INCLUDED. LAMPS: LED, 45 WATTS MAX DRIVER: UNV. VOLT	TBD
	LED THERMOPLASTIC EXIT, IMPACT/SCRATCH RESISTANT AND CORROSION PROOF; TOP, END, OR BACK MOUNTING STANDARD. UNIVERSAL FIELD SELECTABLE SINGLE OR DOUBLE FACE. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED (2), 3 WATTS BALLAST: UNV. VOLT	SURE-LITES "LPX" SER., LITHONIA "LQM" SER., COMPASS "CE" SER., OR APPROVED EQUAL
	LED 2 HEAD EMERGENCY UNIT, LOW PROFILE CONTEMPORARY DESIGN WITH THERMOPLASTIC HOUSING, IMPACT RESISTANT. (PROVIDE 90 MIN. BACK-UP BATTERY). LAMPS: LED (2), 3 WATTS BALLAST: UNV. VOLT	COMPASS "CU2" SER., LITHONIA "ELM2L" SER., LIGHT ALARMS "LCA" SER., SURELITES "SEL17" SER., EVENLITE "TCL" SER.
	EXTERIOR ARCHITECURAL STYLED LOW PROFILE LED AC / EMERGENCY LIGHTING UNIT, SELF DIAGNOSTICS STANDARD. WET LOCATION WITH FULLY GASKETED HOUSING AND 0-50C OPERATION, PRISMATIC POLYCARB REFRACTOR. (PROVIDE 90 MIN. BACK-UP BATTERY). WHITE / BRONZE / BLACK SELECTED BY ARCHITECT. LAMPS: LED, 3 WATTS BALLAST: UNV. VOLT	EMERGI-LITE "LUX-RAY" SER., LITHONIA "AFO" SER., MULE "MAKO" SER., OR APPROVED EQUAL

LIGHTING FIXTURE SCHEDULE

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.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

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 1/4IN. 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 INDICATED ON 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").

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ELECTRICAL LEGEND

LIGHTING AND POWER

- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL, HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
- CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.

ELECTRICAL SPECIFICATIONS

SECTION F
STRUCTURED CABLING SYSTEM FOR VOICE AND DATA

PART 1 -GENERAL

1.01 WORK INCLUDED

A. Provisions for a complete structured cabling system including:

1. Communication outlets as detailed on drawings
2. Cabling (Category 6 and fiber)
3. Conduit and boxes
4. Data patch panels, termination hardware, equipment cabinets, relay racks and overhead cable tray
5. Plywood backboards
6. Inter-building connectivity
7. Grounding

1.02 SCOPE OF PROJECT STANDARDS AND DESCRIPTION

A. The structured cabling placed on this undertaking shall be Category 6 compliant, Plenum-rated, "Unshielded Twisted Pair" type and conform to the requirements contained in the latest editions of the National Electric Code (NEC) and the latest editions of the following American National Standards Institute (ANSI) specifications:

1. TIA/EIA-568-B.2-1 Commercial Building Telecommunications Wiring Standard
2. TIA/EIA-569-A Commercial Building Standard for Telecommunications Pathways and Spaces
3. TIA/EIA-606 Administration Standard for the Telecommunications Infrastructure of Commercial Buildings
4. TIA/EIA-607 Commercial Building Grounding and Bonding Requirements for Telecommunications
5. Supplements to EIA/TIA-568 Technical Systems Bulletins
6. TSB-36 Additional Transmission Specifications for Unshielded Twisted Pair Cables
7. TSB-40 Additional Transmission Specifications for Unshielded Twisted Pair Hardware

1.03 WORKMANSHIP

A. All work shall be performed in a workmanlike manner. Architect, Engineer, and/or Owner may observe the work procedures and workmanship of the Contractor but such observation will not relieve the contractor from responsibility for performance.

1.04 WARRANTY

A. The Contractor shall furnish a written warranty from the manufacturer that describes the network cabling and associated equipment supplied under these specifications will be free from defects of materials and workmanship for a period of twenty five years and the cable plant/labor will be free from defects of materials and workmanship for a period of twenty five years from the date of final acceptance unless otherwise specified and that all defects occurring within that period shall be corrected in a timely manner at no cost to the Owner.

1.05 CONTRACTOR'S QUALIFICATIONS

A. Contractor shall be required, before awarding of contract, to demonstrate to the complete satisfaction of the Architect that they have the necessary facilities, ability and financial resources to execute the work in a satisfactory manner and within the time specified; that they that they have been in the structured cabling business for 3 years and references which will assure the Owner of his qualifications for executing the work.

B. Contractor shall submit a copy of a valid low-voltage license in the State of Georgia (Low-Voltage Telecommunications or Low-Voltage Unrestricted as issued by the State Construction Industry Licensing Board of Low-Voltage Contractors).

C. Contractor shall submit a copy of a BICSI (Building Industry Consulting Service International) certificate certified and a RCDD (Registered Communications Distributions Designer) certificate.

D. Comprehensive list of references: Attach a detailed list of references along with contact person, dates of work, mailing address, telephone numbers.

E. Contractor must provide proof of installation in a minimum of five sites using a Category 6, compliant structured cabling system with 300 or more active (working) nodes installed.

1.06 SUBMITTALS

A. Provide a complete digital shop drawing package of the system (PDF format).

B. Provide clearly legible as-built drawings.

C. Submit shop drawings in a neatly bound comb or three-ring binder with protective covers. Indicate on the front cover the date submitted, project name, specification section number, electrical contractor's name, address, telephone number and the submitting equipment supplier's address and telephone number. Allow enough clear area on the title sheet for shop drawing review stamps.

D. Provide a letter describing the training program on installing extended performance data cabling systems.

E. Submit 1/8" scale PDF and AutoCad files with floor plans showing all rooms, stairways, corridors, and horizontal exits. Include all voice and data outlet locations. Indicate all wire sizes and types, wire counts, conduit sizes and routing through the building.

F. Submit the following riser/wiring/connection diagrams:

1. Single line riser drawing indicating all system components and the vertical wiring necessary to connect the components. Indicate conduit sizes and wire counts and a legend indicating the type of wiring.
2. Indicate the cable routing of each cable, and the approximate anticipated length of each cable.
3. Branch circuit wiring at each communications closet and other devices in the system requiring 120-volt power.

G. Submit original prints of the manufacturer product sheets with complete technical data for each item being provided. Circle, arrow, or provide other permanent marking on each data sheet to clearly indicate the specific product included in the submittal. Remove or crosshatch out any product on the data sheets not applicable to the project or not being submitted for review.

H. Shop drawings not containing all the information listed above will be rejected without review.

I. Documentation of testing on all wiring and terminations as per TIA/EIA standards.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. The acceptable manufacturers noted shall be installed by the authorized local factory dealer/representative for that product.

B. The contractor shall hold a current Georgia low voltage contractor's license and RCDD certificate. Any other interested parties shall submit a company resume showing years in business, certification stating that he is an authorized representative for the manufacturer of the equipment he is submitting for approval and that he maintains a fully equipped and stocked service shop and shall respond to service calls within 12 normal working hours, list of key personnel, copies of appropriate licenses and list of recently completed jobs.

C. Acceptable Manufacturer's: AMP, Ortronics or Panduit structured cabling systems. The structured cabling solutions must be "end-to-end" and covered under the manufacture's warranty as a complete system. Mixed manufactures under different warranties are not acceptable.

2.02 COMMUNICATION OUTLET SPECIFICATIONS

A. Provide communications outlets (jacks for data/voice) as detailed on the drawings.

B. Outlet faceplate for this arrangement shall be configured in the following fashion:

1. The jacks used shall fit properly in the outlet openings of the faceplate. The jacks used shall be capable of supporting LAN data rates of 350 MHz and also conform to parameters set in TIA/EIA 568, TSB36 and TSB40A.
2. Any vacant faceplate or communication outlet position shall be reserved for future growth and should have a dust cover/blank inserted.

2.03 HORIZONTAL CABLING WIRING SPECIFICATIONS

A. This section covers the cable from the communications outlet to the patch panel. These cables shall be Category 6 compliant, Plenum-rated, Unshielded Twisted Pair cable. Each cable shall be placed in a "point-to-point" fashion from the outlet to the wiring closet for each communications outlet needed. There shall be no intermediate splices or cross connects in these cables.

B. The cable shall meet or exceed the following requirements:

1. TIA/EIA 568-B.2-1 "Commercial Building Wiring Standard," Horizontal Cable Section.
2. TIA/EIA TSB-36 "Technical System Bulletin Additional Cable Specifications for Unshielded Twisted Pair Cables, "Category 6."
3. Proposed ANSI X3T9.5 Requirements for UTP at 350 MHz.
4. Certified Category 6 Cable under UL's LAN Cable Certification Program.
5. IEEE 802.3
6. ICEA S80-576
7. UL Subject 444
8. PUB 48007
9. TA-TS000133
10. National Electric Code - Article 800

C. Provide 12 strand hybrid fiber with 6 strands of multimode fiber and 6 strands of single mode fiber, 62.5/125 micron, plenum-rated hybrid fiber to site demark point from the MDF. All fibers must be housed in rack mounted fiber enclosures. All fiber strands shall be terminated with SC fiber connectors and certified with a db loss meter. Provide two SC-to-SC MM or SC to LC (Actual type to be specified by the Technology Department) fiber jumpers (2 meter) for each closet requiring fiber. Fiber must be installed in 1" plenum rated innerduct or interlok jacket. Cable must be rated for exterior use.

2.04 DATA PATCH PANEL/PATCH CABLE AND EQUIPMENT RACK SPECIFICATIONS

A. This section covers the termination hardware located in the MDF. The termination hardware shall provide the capability to patch connections between ports on the LAN hardware and the horizontal cables to the outlets (electronics by owner, N.I.C.).

B. The Patch panels shall be Category 6 compliant 48 position RJ45 jack panels.

C. The termination hardware shall be located on two 19" inch racks in the MDF. The configuration of the patch panels shall be in an arrangement that minimizes patch cord lengths. Provisions for cable management (organization of horizontal and vertical cable and patch cords) on the rack should be included. If more than half of the rack space is occupied by patch panels, an additional rack must be installed for equipment.

D. Potential horizontal cables to the outlets will be directly connected to 110 insulation displacement hardware associated with each jack on the patch panel. The jacks on the patch panel shall be wired to the EIA 568B wiring standard.

E. Two Category 6 compliant MHz factory-built, manufacturer tested patch cords shall be provided for each cable installed. Patch cords should be from the same manufacturer as the structured cabling solution. Check with Technology Services regarding exact lengths required.

F. Provide two 24" x 38" x 84" equipment cabinets with locking, plexiglass front doors and mesh back doors and 10" exhaust fan in the MDF as shown on drawings. The MDF cabinet shall be equipped with two sets of 19" mounting rails and a power strip with a minimum of 16 outlets." Mounting rails shall be suitable for mounting of servers and other electronic equipment, installer shall check with the "Technology Services Department for mounting rail requirements as square cutouts vs. round threaded holes may be required. Two 19" equipment racks shall be provided for mounting patch panels and LAN electronics (provided by owner) and shall be mounted in conjunction with ladder racks as shown on drawings." Provide horizontal wire managers between each patch panel. Include 6" wide vertical wire managers on each side of each rack (Chatsworth 11374-7-03)

2.05 TELEPHONE BACKBONE (FEEDER CABLE)

A. The one 50 pair, 24 AWG Category 3, Plenum rated (CMP) feeder cable provided from site dmark point to the MDF terminating on a 48 port patch panel (2 ports short for a 50 pair cable). The MDF end of the feeder shall be punched down on 48 patch panels inside the MDF cabinet designated for phones. Cable must conform to normal requirements for campus type distribution systems as required by BICSI. Cable must be rated for exterior use.

2.06 CONDUIT, RACEWAY, AND BACKBOARDS

A. Recessed Outlet Locations: Provide recessed 4 inch square box and 3/4 inch EMT conduit to above accessible ceiling as noted on drawings for interior recessed stand alone outlet locations. Provide single gang or double gang plaster ring to fit recessed box as detailed on drawing.

B. Surface Raceway Outlet Locations: See detail on drawing.

C. Exterior Service Conduits: Provide PVC conduit with galvanized rigid steel transitions to above grade (including elbows) in locations noted on drawings. The service entrance facility shall be provided and installed according to the attached site plan using the details shown in sketches. The total number of bends in a conduit section run shall not exceed two 90 degree bends or equivalent of sweeps and radius bends. Each bend shall have a minimum radius in accordance with existing standards. The conduit shall be installed at a minimum depth of 36" and backfilled with selected fill material. Encase conduit(s) in concrete where minimum depth cannot be attained. Conduits terminating inside a building shall be installed so that the conduit extends 4"aff beyond the surface from which it emanates. Conduits shall be plugged with inserts to ensure that foreign matter does not enter. The ends of metallic conduit shall be reamed, bushed, and grounded according to the NEC. All conduits shall have a non-corrosive pull tape installed.

D. Backboard: Provide ¾", trade size a-c plywood backboard as described under "Supporting Devices" in these electrical specifications. Mount two sheets, 8 feet high and rigidly fasten plywood to wall to ensure that it can support attached equipment. Communications equipment backboards should be painted with fire resistant, washable, low gloss paint the same color as the walls and installed in a timely manner so that final terminations of service cabling.

2.07 GROUNDING

A. All equipment racks and cabinets shall be electrically grounded to the building ground with an insulated #6 copper ground wire.

B. A grounding bus bar shall be attached to the plywood backboard in the MDF. The bus bar shall be connected to the building ground with a #6 insulated copper ground wire

PART 3 - EXECUTIONS

3.01 PULL AND JUNCTION BOX COVER IDENTIFICATION

A. See "Section B: Basic Materials" in the Electrical Division of the specifications.

3.02 LABELING

A. System shall be completely labeled, with circuit numbers indicated on the patch panel and communication outlets. Provide a list indicating circuit numbers installed to each space. Faceplate must have protective covers that will allow for a permanent label solution. "Stick-on" labels of any kind are not acceptable.

B. Number each jack as follows:

MDF number + Patch Panel letter + Port number

3.03 TESTING AND CERTIFICATION

A. Testing copper distribution systems are crucial in assuring the overall integrity and satisfactory performance of the network. Test results quantify system quality, identify system faults, and establish the baseline accountability performance of the system. Proper testing also maximizes the longevity of the system, minimizes downtime and maintenance, and facilitates system upgrades or reconfiguration.

B. The Contractor shall provide proof of communications wiring systems certification and testing certification.

C. All data wiring and terminations shall be tested and must pass EIA/TIA standards for Category 6 compliant wiring.

D. All test results must be printed and provided to the owner in CD-ROM and/or floppy format and show the following results:

1. Impedance (TDR)
2. Cable Length
3. Attenuation
4. Near End Cross Talk (NEXT)
5. Line Mapping
6. DC ohms
7. OTDR

3.04 GUARANTEES

A. All communication outlets wired and serviceable must be tested and certified in compliance with the ANSI/IEEE 802.3 and EIA/TIA 568 Category 6 compliant specifications. Testing must be "end-to-end". Test results shall be forwarded to Architect a minimum of one week prior to final inspection.

ALPHA BLDG SET 09-04-2024

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Architect
102 Sammy Court
WARNER ROBINS, GEORGIA 31088
gary@gmarchitectllc.net
(478)-365-8976

ARCHITECT

STAMP INVALID UNLESS SIGNED

ELECTRICAL DESIGN
EDC
CONSULTANTS, INC.
175 NEW ST.,STE.1
MACON, GA 31201
EDC# M24027

CONSULTANT

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

STAMP INVALID UNLESS SIGNED

ELECTRICAL SPECIFICATIONS

New Facility
Newton County Enrichment Center
Richard Chapel Road
Covington, Georgia

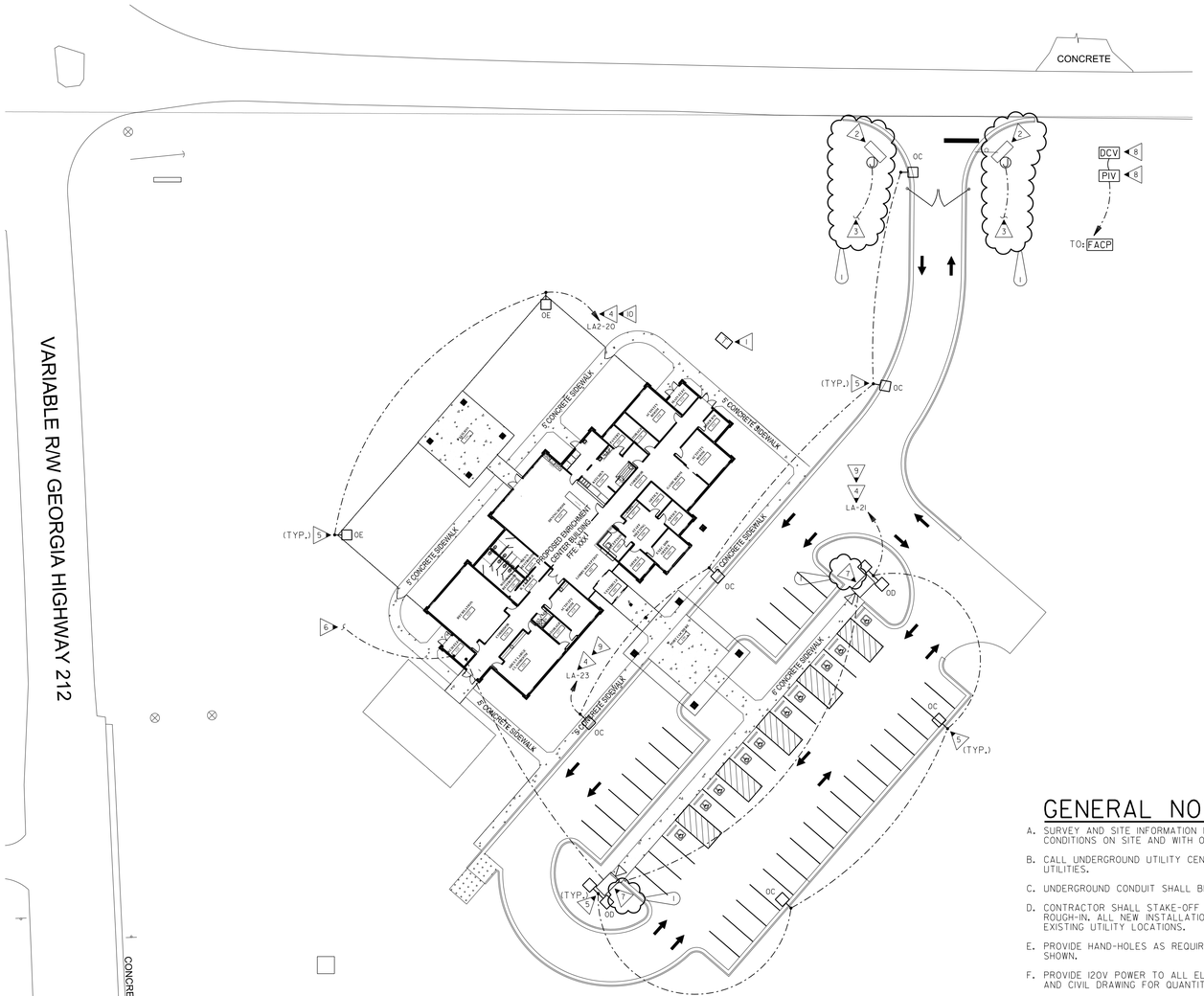
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CHECKED BY:	JHM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE

REVISIONS:

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SHEET
E0.2
OF



1 SITE PLAN - ELECTRICAL
E-1.1
SCALE: 1/30"=1'-0"
0 15' 30'

GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER:

1. TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FT.-0 IN. FROM ANY BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS AND OR WALKWAYS CONNECTED TO THE BUILDING.
2. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 14 FT.-0 IN. FROM ANY DOOR WAY.
3. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 10 FT.-0 IN. FROM ANY WINDOWS OR OTHER OPENINGS.
4. IF THE BUILDING HAS ON OVERHANG THE 10 FT.-0 IN. CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS 3 STORIES OR LESS. IF THE BUILDING IS 4 STORIES OR MORE 10 FT.-0 IN. SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
5. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS, SHALL BE CONSIDERED PART OF THE BUILDING.

NOTE: THIS INFORMATION HAS BEEN OBTAINED FROM THE NFPA SECTION 450-27 AND THE OFFICE OF INSURANCE AND SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.

KEYED NOTES: (THIS SHEET ONLY)

1. PROPOSED UTILITY CO. PAD MOUNTED TRANSFORMER AND METER. TRANSFORMER FURNISHED AND INSTALLED BY UTILITY CO. METER AND PEDESTAL FURNISHED BY UTILITY CO. AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PAY ALL COSTS ASSOCIATED WITH. SEE POWER RISER DIAGRAM, 1/E5.1. SEE GENERAL NOTES (TRANSFORMER) ON THIS SHEET.
2. FUTURE SIGN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
3. PROVIDE (2) 1 IN. C. FROM FUTURE SIGN TO MAIN ELECTRICAL/MECHANICAL ROOM FOR FUTURE POWER AND CONTROLS. COORDINATE EXACT STUB UP LOCATIONS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. TEMPORARILY CAP ROUGHED-IN CONDUIT. SEE KEYED NOTE 2.
4. ROUTE #10 TO POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED IN ELEC. ROOM. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 4 ON SHEET E2.1. USE #10'S ENTIRE CIRCUIT. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
5. SEE TYPICAL POLE BASE MOUNTING DETAIL, 2/E1.1.
6. ROUTE FROM TELEPHONE BACKBOARD TO EACH UTILITY CO. SERVICE POINT. COORDINATE WITH SERVING UTILITY CO. PRIOR TO ROUGH-IN. PROVIDE (4) 3 IN. CONDUITS; (2) FOR DATA/TEL, (1) FOR CATV, AND (1) SPARE. REFER TO DETAIL 1/E4.01. TELEPHONE/DATA/CABLE TV/CCTV RISER. FIELD VERIFY EXACT LOCATION OF UTILITY SERVICE POINTS. PROVIDE QUAZITE PULL BOXES AS REQUIRED, RATED FOR LOCATION.
7. FOR SECURITY CAMERA LOCATIONS SHOWN, PROVIDE 4X4 BOX, PAINTED COLOR OF THE POLE, MOUNTED 1FT. ABOVE BASE ON LIGHT POLES WITH MINIMUM 1 IN. C. AND PULL STRING TO IT ROOM FOR CAMERA AND HEAD END EQUIPMENT INSTALLATION BY OTHERS. COORDINATE LOCATION OF CAMERAS AND MOUNTING HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.
8. PROVIDE MONITORING OF DOUBLE CHECK VALVE AND POST INDICATOR VALVE FOR FIRE SPRINKLER SYSTEM. FIELD COORDINATE EXACT LOCATION.
9. PROVIDE 2#4, #8G., 1 1/4 IN. C. FOR CIRCUIT. (INCREASED SIZE FOR VOLTAGE DROP).
10. PROVIDE 2#8, #10G., 1 IN. C. FOR CIRCUIT. (INCREASED SIZE FOR VOLTAGE DROP).

GENERAL NOTES: (THIS SHEET ONLY)

A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICAL SURVEYS AND OTHER TRADES.

B. CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.

C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.

D. CONTRACTOR SHALL STAKE-OFF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN. ALL NEW INSTALLATION SHALL BE COORDINATED WITH EXISTING UTILITY LOCATIONS.

E. PROVIDE HAND-HOLES AS REQUIRED BY NEC FOR UNDERGROUND FEEDERS SHOWN.

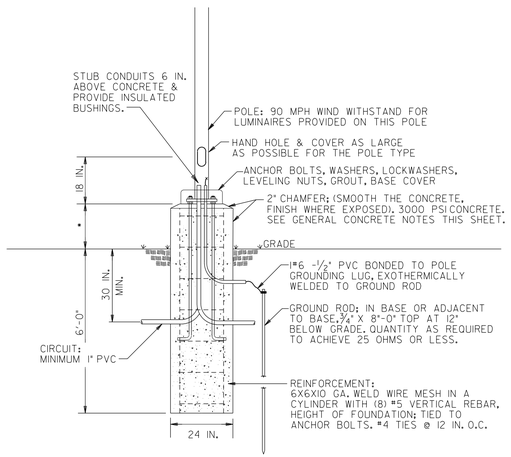
F. PROVIDE 120V POWER TO ALL ELECTRONIC WATER METERS. SEE PLUMBING AND CIVIL DRAWING FOR QUANTITIES AND LOCATIONS.

LIGHT FIXTURE DESIGNATION DESCRIPTION
EXAMPLE: B/HAI-1/b

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

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



• EXPOSED FOUNDATION:
WITHIN PARKING LOT = 36 IN. POLE BASE HEIGHT
GRASSED AREAS = 12 IN. POLE BASE HEIGHT

2 POLE BASE DETAIL (TYPICAL)
E1.1
NOT TO SCALE

ALPHA BLDG SET 09-04-2024

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gary@gmarchitectllc.net
(478)-365-8976

ARCHITECT
STAMP INVALID UNLESS SIGNED

ELECTRICAL DESIGN
EDC CONSULTANTS, INC.
175 NEW ST.,STE.1
MACON, GA 31201
EDC* M24027

CONSULTANT
GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE
STAMP INVALID UNLESS SIGNED

SITE PLAN - ELECTRICAL

New Facility
Newton County Enrichment Center

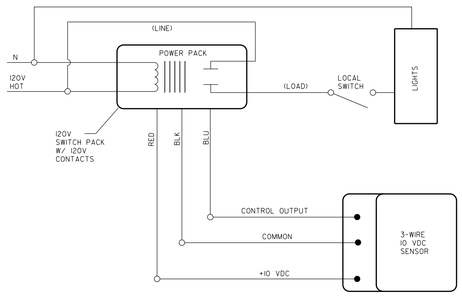
Richard Chapel Road Covington, Georgia

JOB NO.:	2309
DRAWN BY:	TAW
CHECKED BY:	JHM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
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DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE
REVISIONS:	
1	(1) 07.09.24 VE
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SHEET
E1.1
OF

ALPHA BLDG SET 09-04-2024



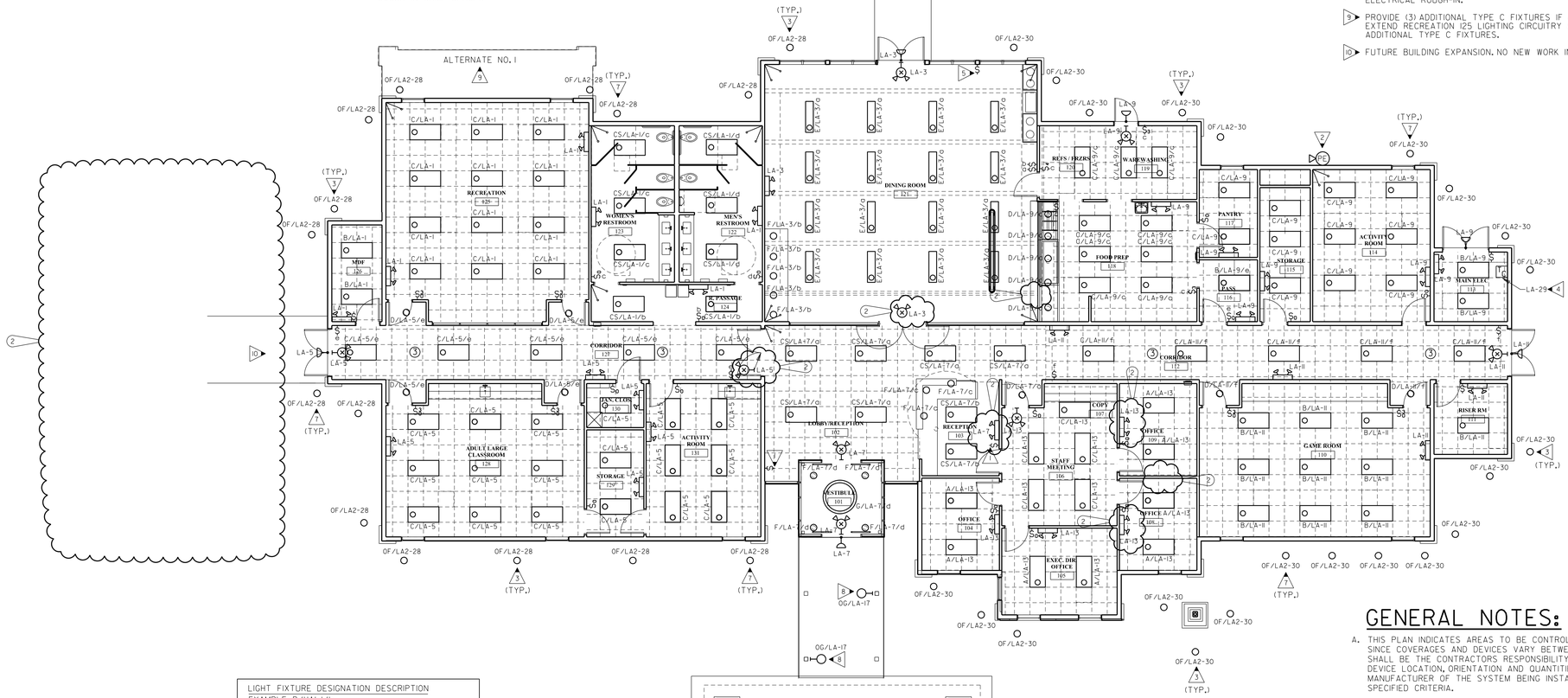
2 / E2.1 SCHEMATIC WIRING DIAGRAM - SENSOR CONTROL - LIGHTING

NOT TO SCALE

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

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE A FOUR ZONE ROOM LIGHTING CONTROLLER SYSTEM. PROVIDE SYSTEM WITH TOUCHSCREEN CONTROL BEHIND RECEPTION AND ONE MULTISCENE (4-SCENE+OFF) WALL BOX STATION AS SHOWN. PROVIDE SYSTEM COMPLETE WITH POWER PACKS AND CONNECTIVITY BETWEEN CONTROLLER. ROUTE ALL LIGHTING CIRCUITS VIA CONTROLLER OR CONTROLLED POWER PACK. SYSTEM SHALL BE FULLY PROGRAMMABLE. PROVIDE INTERCONNECTIVITY REQUIRED BY SYSTEM PROVIDED. BASIS OF DESIGN IS THE INTELLIGENT NLIGHT NPOD SYSTEM. SYSTEM SHALL CONTROL FIXTURES IN THE LOBBY/RECEPTION 102 AREA WITH SHOWN SWITCH INDICATIONS (a, b, c & d) WITH EACH INDICATION REPRESENTING A SEPARATELY CONTROLLED ZONE.
2. 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.
3. ROUTE VIA 10 POLE EXTERIOR LIGHTING CONTACTOR/TIMECLOCK LOCATED IN ELEC. ROOM. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIMECLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 4. USE #10'S ENTIRE CIRCUIT. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
4. PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIME CLOCK WITH MINIMUM 10 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 FUNCTION.
5. PROVIDE MANUAL OVERRIDE SWITCH FOR TYPE OE FLOOD LIGHT FIXTURES ON SHEET E-1.1. SWITCH SHALL MANUALLY OVERRIDE PHOTO CELL/TIME CLOCK CONTROLS FOR FIXTURE.
6. NOT USED.
7. DOWNLIGHT FIXTURE RECESSED IN SOFFIT. COORDINATE WITH ARCHITECTURAL.
8. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ELECTRICAL ROUGH-IN.
9. PROVIDE (3) ADDITIONAL TYPE C FIXTURES IF ALTERNATE NO. 1 IS ACCEPTED. EXTEND RECREATION 125 LIGHTING CIRCUITRY AS NEEDED FOR CONNECTION TO ADDITIONAL TYPE C FIXTURES.
10. FUTURE BUILDING EXPANSION. NO NEW WORK IN THIS AREA.



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 AND ELECTRICAL ROOMS).

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. PROVIDE CEILING MOUNTED SENSORS WITH ADAPTOR PLATES FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING). JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8IN. 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.

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HAI-1/b

PANEL DESIGNATION:

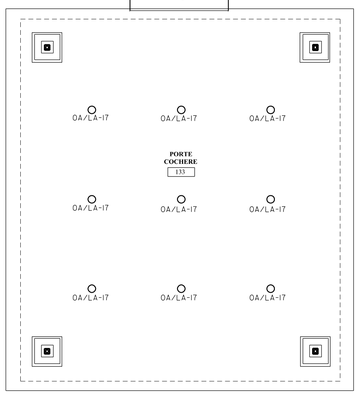
CIRCUIT NUMBER

FIXTURE TYPE: TYPE "A" IF NO CAPITAL LETTER SHOWN

SWITCH LEG DESIGNATION WHEN MULTIPLE SWITCHES ARE IN SAME SPACE/AREA

B/ HAI-1/b

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)



1 / E2.1 OVERALL FLOOR PLAN - LIGHTING

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

0 4' 8'

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GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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OVERALL FLOOR PLAN - LIGHTING

New Facility Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

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DRAWN BY:	TAW
CHECKED BY:	JHM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
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REVISIONS:

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2	2	08.29.24 PLAN REVIEW
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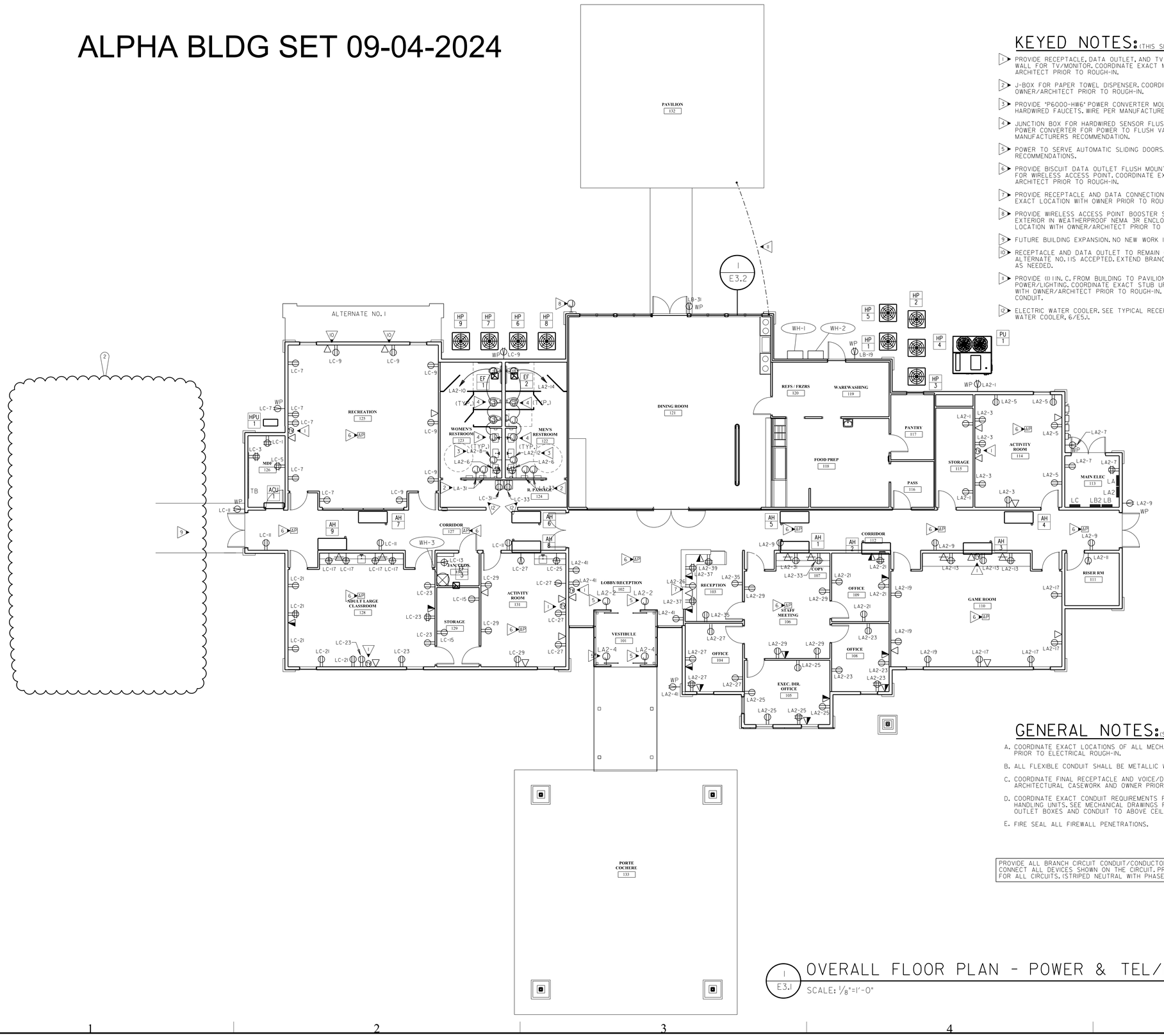
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SHEET

E2.1

OF

ALPHA BLDG SET 09-04-2024



KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE RECEPTACLE, DATA OUTLET, AND TV OUTLET MOUNTED HIGH ON WALL FOR TV/MONITOR. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
2. J-BOX FOR PAPER TOWEL DISPENSER. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
3. PROVIDE "P6000-HW6" POWER CONVERTER MOUNTED UNDER COUNTER FOR HARDWIRED FAUCETS. WIRE PER MANUFACTURERS RECOMMENDATION.
4. JUNCTION BOX FOR HARDWIRED SENSOR FLUSH VALVES. PROVIDE "P6000-HW6" POWER CONVERTER FOR POWER TO FLUSH VALVES. WIRE PER MANUFACTURERS RECOMMENDATION.
5. POWER TO SERVE AUTOMATIC SLIDING DOORS. WIRE PER MAUFACTURERS RECOMMENDATIONS.
6. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED ABOVE ACCESSIBLE CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
7. PROVIDE RECEPTACLE AND DATA CONNECTION FOR CCTV DVR. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
8. PROVIDE WIRELESS ACCESS POINT BOOSTER SURFACE MOUNTED TO BUILDING EXTERIOR IN WEATHERPROOF NEMA 3R ENCLOSURE. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
9. FUTURE BUILDING EXPANSION. NO NEW WORK IN THIS AREA.
10. RECEPTACLE AND DATA OUTLET TO REMAIN ON PLAN NORTH WALL IF ALTERNATE NO. 1 IS ACCEPTED. EXTEND BRANCH CIRCUITRY AND CABLING AS NEEDED.
11. PROVIDE (1) 1 IN. C. FROM BUILDING TO PAVILION FOR FUTURE PAVILION POWER/LIGHTING. COORDINATE EXACT STUB UP LOCATIONS OF CONDUIT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. TEMPORARILY CAP ROUGHED-IN CONDUIT.
12. ELECTRIC WATER COOLER. SEE TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER, 6/E5.1.

GENERAL NOTES: (SHEETS E3.1 & E3.2)

A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.

B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.

C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.

D. 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.

E. FIRE SEAL ALL FIREWALL PENETRATIONS.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

1 / E3.1 OVERALL FLOOR PLAN - POWER & TEL/DATA/TV SYSTEMS

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

0 4' 8'

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OVERALL FLOOR PLAN - POWER & TEL/DATA/TV SYSTEMS

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Covington, Georgia

Richard Chapel Road

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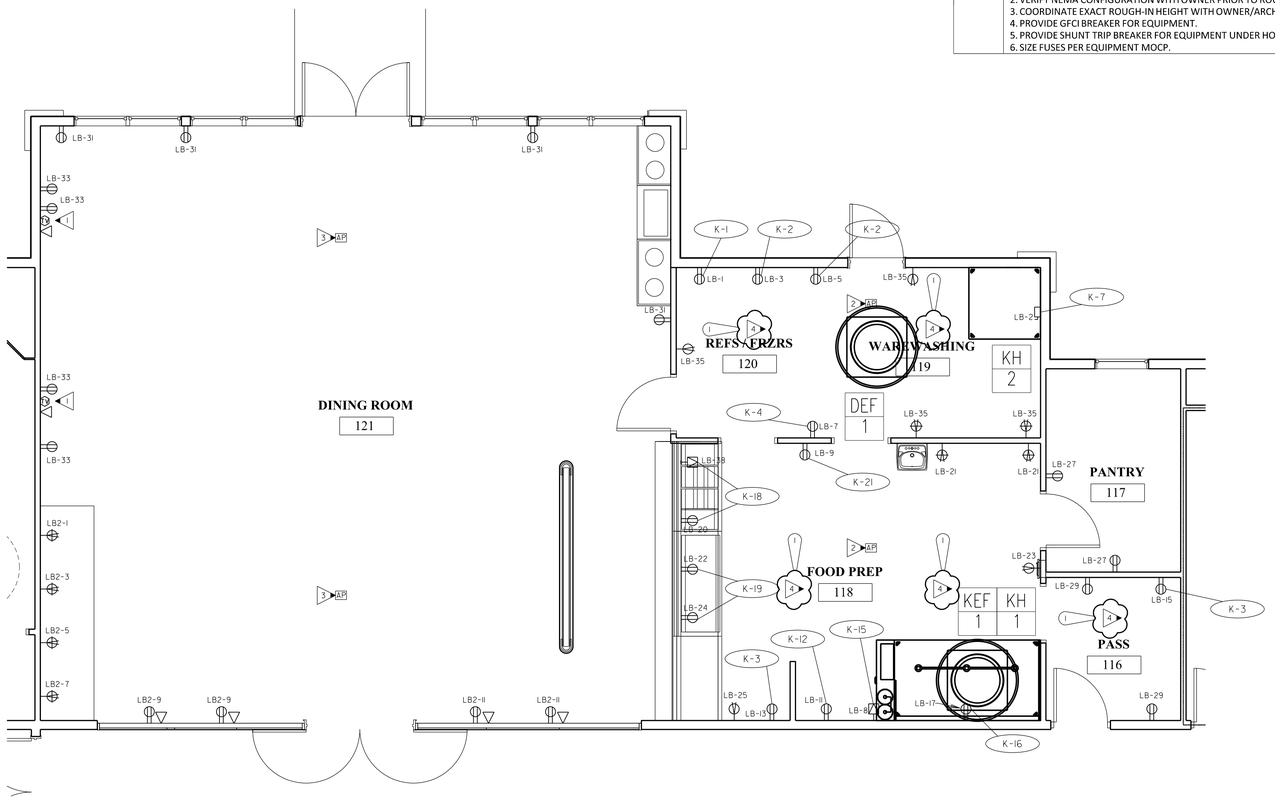
E3.1

OF

KITCHEN EQUIPMENT POWER SCHEDULE

ITEM NO.	QUANTITY	DEVICE	VOLTAGE/ PHASE	AMPS	CIRCUIT BREAKER	CIRCUIT NUMBER	FEEDER	DISCONNECT	NEMA CONNECTION	NOTES
K1	1	FREEZER	120V	6.5A	20A/1P	LB-1	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K2	2	REFRIGERATOR	120V	3.8A	20A/1P	LB-3	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
		REFRIGERATOR	120V	3.8A	20A/1P	LB-5	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K3	2	WARMING OVEN	120V	15A	20A/1P	LB-13	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
		WARMING OVEN	120V	15A	20A/1P	LB-15	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K4	1	ICEMAKER	120V	15A	20A/1P	LB-7	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K7	1	DISHWASHER	208V/3PH	52.5A	60A/3P	LB-2	4#6, #8G., 1 IN. C.	60A/3P FUSED	--	1,3,6
K12	1	REFRIGERATOR	120V	3.8A	20A/1P	LB-11	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4,5
K15	1	CONVECTION OVEN	208V/3PH	35A	45A/3P	LB-8	4#8, #10G., 1 IN. C.	CORD AND PLUG	11-50P	1,2,3,5
K16	1	RANGE (GAS)	120V	5A	20A/1P	LB-17	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K18	1	HOT FOOD SERVING COUNTER POWER	208V/3PH	10A	20A/3P	LB-38	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	11-30P	1,2,3,4
	1	HOT FOOD SERVING COUNTER LIGHTS	120V	5A	20A/1P	LB-20	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K19	1	COLD FOOD SERVING COUNTER POWER	120V	5.2A	20A/1P	LB-22	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
	1	COLD FOOD SERVING COUNTER LIGHTS	120V	5A	20A/1P	LB-24	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4
K21	1	DISPLAY REFRIGERATOR	120V	6.5A	20A/1P	LB-9	2#12, #12G., 1/2 IN. C.	CORD AND PLUG	5-15P	1,2,3,4

NOTES:
1. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
2. VERIFY NEMA CONFIGURATION WITH OWNER PRIOR TO ROUGH-IN.
3. COORDINATE EXACT ROUGH-IN HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
4. PROVIDE GFCI BREAKER FOR EQUIPMENT.
5. PROVIDE SHUNT TRIP BREAKER FOR EQUIPMENT UNDER HOOD.
6. SIZE FUSES PER EQUIPMENT MOCP.



1 / E3.2 ENLARGED KITCHEN/DINING AREA - POWER & TEL/DATA/TV SYSTEMS

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

0 2' 4'

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE RECEPTACLE, DATA OUTLET, AND TV OUTLET MOUNTED HIGH ON WALL FOR TV/MONITOR. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
2. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED ABOVE ACCESSIBLE CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN.
3. PROVIDE BISCUIT DATA OUTLET FLUSH MOUNTED IN CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
4. COMMERCIAL KITCHEN EQUIPMENT IS PROVIDED BY OWNER. FIELD COORDINATE THE EXACT LOCATIONS OF POWER CONNECTIONS IN AREA WITH OWNER PRIOR TO ROUGH-IN.

GENERAL KITCHEN NOTES: (THIS SHEET ONLY)

A. ALL EXPOSED OUTLETS IN KITCHEN AND SERVING AREA 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 DRAWING, PROVIDE RECEPTACLE, PLUG, AND CORDSET.

D. INTERLOCK RANGE HOOD FIRE SUPPRESSION SYSTEM WITH SHUNT TRIP BREAKERS SERVING EQUIPMENT UNDER THE HOOD, SUCH THAT UPON SYSTEM ACTIVATION ALL POWER IS SHUT OFF. RANGE HOOD EXHAUST FAN SHALL REMAIN ON AND MECHANICAL UNIT PU-1 SHALL BE SHUT OFF. ALSO INTERLOCK WITH FIRE ALARM SYSTEM SUCH THAT A GENERAL ALARM IS SOUNDED UPON SYSTEM ACTIVATION.

E. BEFORE ROUGHING IN ANY OUTLETS OR ORDERING ANY RECEPTACLES, PLUGS, CORD SETS, 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.

F. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL.

G. PROVIDE CORD AND PLUG FOR EACH PIECE OF KITCHEN EQUIPMENT LOCATED BENEATH HOOD.

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

I. COORDINATE CORD AND PLUG REQUIREMENT FOR KITCHEN EQUIPMENT WITH EQUIPMENT PROVIDER.

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ENLARGED KITCHEN/DINING AREA - POWER & TEL/DATA/TV SYSTEMS

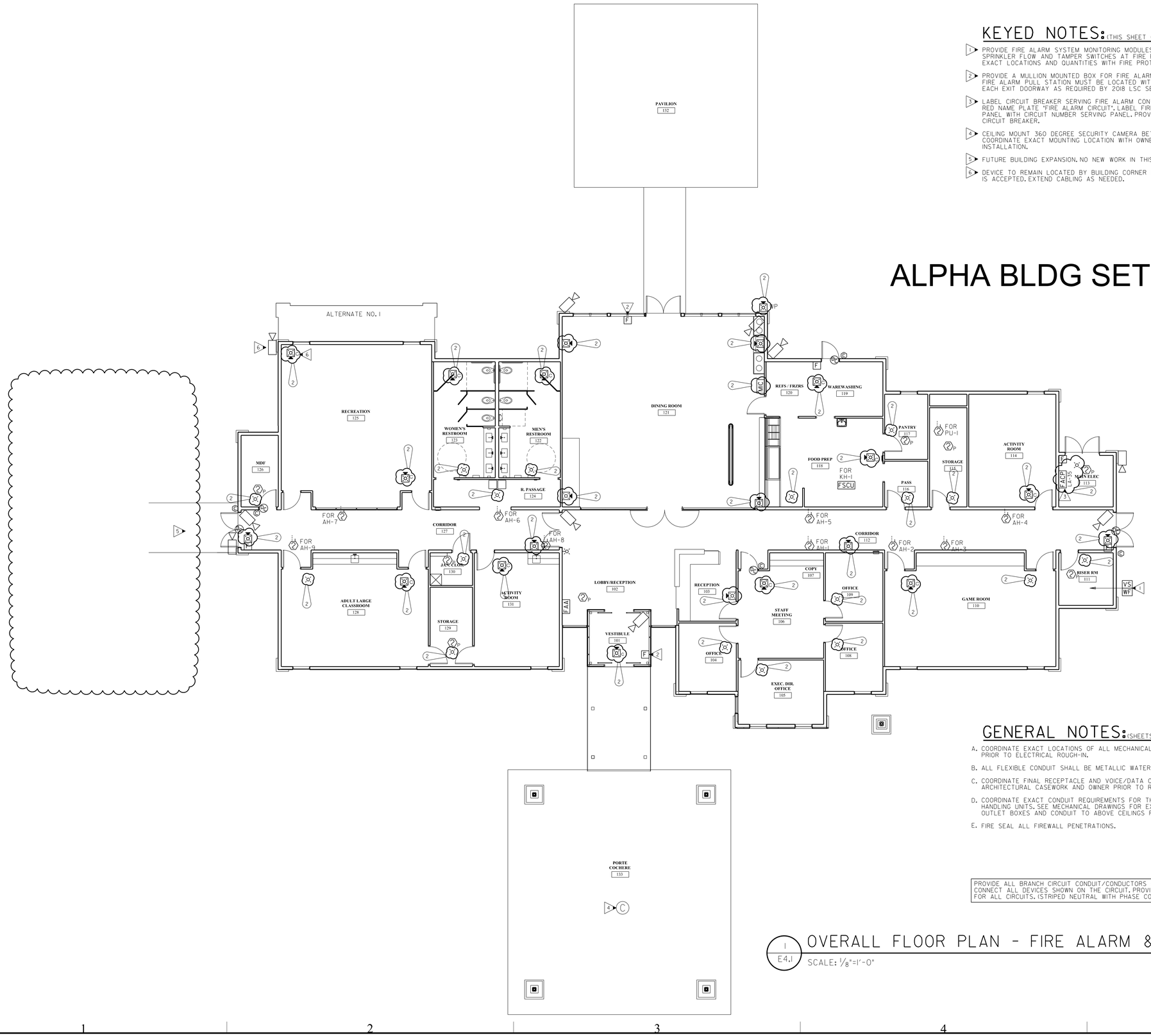
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SHEET
E3.2
OF



KEYED NOTES: (THIS SHEET ONLY)

1. 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.
2. PROVIDE A MULLION MOUNTED BOX FOR FIRE ALARM PULL STATION. FIRE ALARM PULL STATION MUST BE LOCATED WITHIN 5 FEET OF EACH EXIT DOORWAY AS REQUIRED BY 2018 LSC SECTION 9.6.2.3(1).
3. 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.
4. CEILING MOUNT 360 DEGREE SECURITY CAMERA BETWEEN SHELF ROWS. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.
5. FUTURE BUILDING EXPANSION. NO NEW WORK IN THIS AREA.
6. DEVICE TO REMAIN LOCATED BY BUILDING CORNER IF ALTERNATE NO. 1 IS ACCEPTED. EXTEND CABLING AS NEEDED.

ALPHA BLDG SET 09-04-2024

GENERAL NOTES: (SHEETS E3.1 & E3.2)

A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.

B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.

C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.

D. 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.

E. FIRE SEAL ALL FIREWALL PENETRATIONS.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. (STRIPED NEUTRAL WITH PHASE COLOR STRIPING)

1 / E4.1 OVERALL FLOOR PLAN - FIRE ALARM & SECURITY SYSTEMS

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

0 4' 8'

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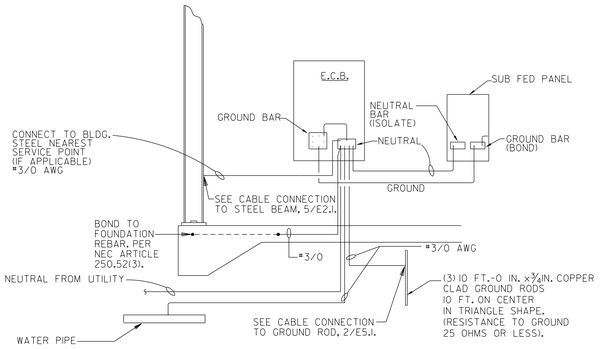
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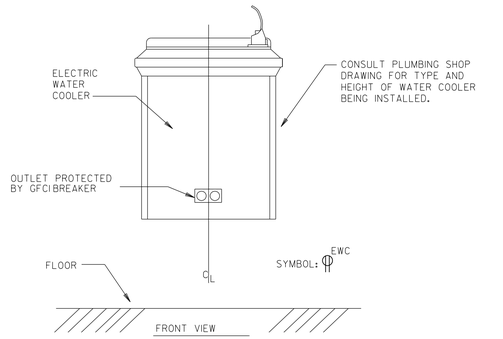
E4.1

OF



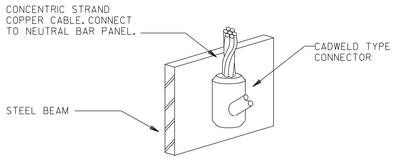
2 E5.1 SERVICE GROUNDING DETAIL

NOT TO SCALE



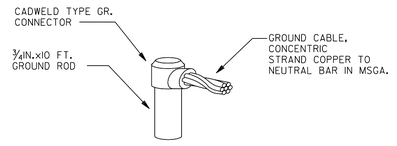
6 E5.1 TYPICAL RECEPTACLE LOCATION @ ELECTRIC WATER COOLER

NOT TO SCALE



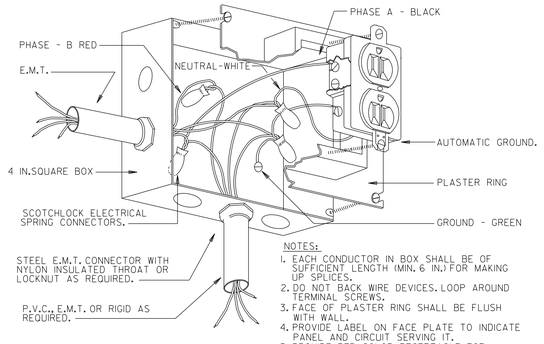
3 E5.1 CABLE CONNECTION TO STEEL BEAM

NOT TO SCALE



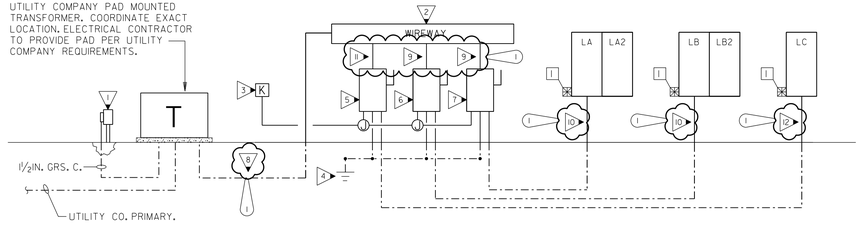
4 E5.1 CABLE CONNECTION TO GROUND ROD

NOT TO SCALE



5 E5.1 RECEPTACLE CONNECTION DETAIL

NOT TO SCALE



1 E5.1 POWER RISER DIAGRAM

NOT TO SCALE

T.V.S.S.

1 MAIN SERVICE PANELS. PROVIDE 5-#6 CONDUCTORS IN 1" 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

MECHANICAL EQUIPMENT POWER SCHEDULE

UNIT NAME	VOLTAGE/ PHASE	CIRCUIT BREAKER	PANEL NAME/ CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH	NOTES
HP-1	208V/1PH	40A/2P	LA-2	3#8, #10G., 1 IN. C.	60A/2P/3R FUSED	1,11
HP-2	208V/1PH	40A/2P	LA-6	3#8, #10G., 1 IN. C.	60A/2P/3R FUSED	1,11
HP-3	208V/1PH	25A/2P	LA-10	3#10, #10G., 3/4 IN. C.	30A/2P/3R FUSED	1,11
HP-4	208V/1PH	25A/2P	LA-14	3#10, #10G., 3/4 IN. C.	30A/2P/3R FUSED	1,11
HP-5	208V/1PH	40A/2P	LA-18	3#8, #10G., 1 IN. C.	60A/2P/3R FUSED	1,11
HP-6	208V/1PH	40A/2P	LB2-2	3#8, #10G., 1 IN. C.	60A/2P/3R FUSED	1,11
HP-7	208V/1PH	40A/2P	LB2-6	3#8, #10G., 1 IN. C.	60A/2P/3R FUSED	1,11
HP-8	208V/1PH	25A/2P	LB2-10	3#10, #10G., 3/4 IN. C.	30A/2P/3R FUSED	1,11
HP-9	208V/1PH	40A/2P	LB2-14	3#8, #10G., 1 IN. C.	60A/2P/3R FUSED	1,11
AH-1	208V/1PH	60A/2P	LA-22	3#6, #8G., 1 IN. C.	60A/2P FUSED	1,2,11
AH-2	208V/1PH	60A/2P	LA-26	3#6, #8G., 1 IN. C.	60A/2P FUSED	1,2,11
AH-3	208V/1PH	45A/2P	LA-30	3#8, #10G., 1 IN. C.	60A/2P FUSED	1,2,11
AH-4	208V/1PH	45A/2P	LA-34	3#8, #10G., 1 IN. C.	60A/2P FUSED	1,2,11
AH-5	208V/1PH	60A/2P	LA-38	3#6, #8G., 1 IN. C.	60A/2P FUSED	1,2,11
AH-6	208V/1PH	60A/2P	LC-2	3#6, #8G., 1 IN. C.	60A/2P FUSED	1,2,11
AH-7	208V/1PH	60A/2P	LC-6	3#6, #8G., 1 IN. C.	60A/2P FUSED	1,2,11
AH-8	208V/1PH	45A/2P	LC-10	3#8, #10G., 1 IN. C.	60A/2P FUSED	1,2,11
AH-9	208V/1PH	60A/2P	LC-14	3#6, #8G., 1 IN. C.	60A/2P FUSED	1,2,11
HPU/ACU-1	208V/1PH	20A/2P	LC-18	3#12, #12G., 3/4 IN. C.	30A/2P/3R FUSED	1,3,11
EF-1	120V	20A/1P	LC-26	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4
EF-2	120V	20A/1P	LC-28	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,4
EF-3	120V	20A/1P	LC-30	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,5
PU-1	208V/3PH	60A/3P	LB2-18	4#6, #8G., 1 IN. C.	60A/3P/3R FUSED	1,9,11
KH-1	120V	20A/1P	LB-26	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
KH-1 (CONTROL)	120V	20A/1P	LB-18	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,10
KH-2	120V	20A/1P	LB-28	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,6
KEF-1	120V	20A/1P	LB-30	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,7
DEF-1	120V	20A/1P	LB-32	2#12, #12G., 1/2 IN. C.	MOTOR RATED SWITCH	1,8
WH-1	120V	20A/1P	LB-34	2#12, #12G., 1/2 IN. C.	30A/1P/3R FUSED	11
WH-2	120V	20A/1P	LB-36	2#12, #12G., 1/2 IN. C.	30A/1P/3R FUSED	11
WH-3	208V/1PH	30A/2P	LC-22	3#10, #10G., 3/4 IN. C.	30A/2P FUSED	11

NOTES:

1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
2. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT. 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 ACTIVATION.
3. INDOOR UNIT POWERED VIA OUTDOOR UNIT.
4. FAN SHALL BE CONTROLLED BY A DIGITAL TIME CLOCK LOCATED IN THE JANITOR ROOM. ELECTRICAL TO PROVIDE THE TIME CLOCK.
5. FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM FAN SERVES.
6. PROVIDE 120V POWER CONNECTION TO HOOD'S UTILITY CABINET.
7. FAN SHALL BE CONTROLLED BY A HOOD MANUFACTURER CONTROL SYSTEM WITH A TWO POSITION OVERRIDE SWITCH. WIRE PER MANUFACTURERS RECOMMENDATION.
8. INTERLOCK FAN WITH DISHWASHER TO TURN ON FAN WHEN DISHWASHER IS RUNNING. ELECTRICAL TO PROVIDE A MANUAL OVERRIDE SWITCH. WIRE PER MANUFACTURERS RECOMMENDATION.
9. PROVIDE SHUNT TRIP FOR PU-1 BREAKER. SHUNT TRIP BREAKER TO SHUT DOWN PU-1 UPON ACTIVATION OF KH-1 RANGE HOOD SUPPRESSION SYSTEM. INTERLOCK SHUNT TRIP BREAKER WITH HOOD FIRE SUPPRESSION SYSTEMS PER HOOD MANUFACTURER INSTRUCTIONS.
10. PROVIDE ADDITIONAL 120V CIRCUIT AS REQUIRED FOR KH-1 CONTROL PANEL POWER.
11. SIZE FUSE FOR DISCONNECT PER MANUFACTURER MOCP REQUIREMENTS.

KEYED NOTES: (THIS SHEET ONLY)

1. METER BASE SUPPLIED BY POWER COMPANY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH THE METER.
2. WIREWAY SIZED PER NEC 2020. PROVIDE UTILITY CO. LOCKING PINS AS REQUIRED. PROVIDE POLARIS LUGS OF NUMBER AND SIZE OF LUGS SHOWN FOR CONDUCTORS AND TAPES REQUIRED. PROVIDE (1) ADDITIONAL POLARIS LUG AND TAP SIZED FOR A FUTURE 225A/3P S.E. RATED E.C.B. FOR THE FUTURE BUILDING EXPANSION.
3. SURFACE MOUNTED NEMA 3R KNOW REMOTE POWER BOX PRODUCT NUM. "MKT-KBSPEC-0169". CONNECT TO S.E. RATED SHUNT TRIP TYPE E.C.B.S, TO REMOTELY DISCONNECT POWER. COORDINATE FINAL LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION.
4. SEE SERVICE GROUNDING DETAIL, 2/E5.1.
5. PROVIDE LABEL "SERVICE DISCONNECT 1 OF 3". PROVIDE 225A/3P/3R S.E. RATED SHUNT TRIP TYPE ENCLOSED CIRCUIT BREAKER, 44.0 KAIC MINIMUM.
6. PROVIDE LABEL "SERVICE DISCONNECT 2 OF 3". PROVIDE 400A/3P/3R S.E. RATED SHUNT TRIP TYPE ENCLOSED CIRCUIT BREAKER, 44.0 KAIC MINIMUM.
7. PROVIDE LABEL "SERVICE DISCONNECT 3 OF 3". PROVIDE 400A/3P/3R S.E. RATED SHUNT TRIP TYPE ENCLOSED CIRCUIT BREAKER, 44.0 KAIC MINIMUM.
8. 3 SETS: 4#600MCM ALUM., 4 IN. C. (PROVIDE (1) SPARE 4 IN. C.)
9. 2 SETS: 4#250MCM ALUM., 3 IN. C.
10. 4#600MCM, #1/0G., 4 IN. C.
11. 4#300MCM ALUM., 3 IN. C.
12. 4#4/0, #2G., 2 1/2 IN. C.

ALPHA BLDG SET 09-04-2024

GM
Architect
102 Sammy Court
WARNER ROBINS, GEORGIA 31088
gary@gmarchitectllc.net
(478)-365-8976

ARCHITECT

STAMP INVALID UNLESS SIGNED

ELECTRICAL DESIGN
EDC
CONSULTANTS, INC.
175 NEW ST., STE.1
MACON, GA 31201
EDC# M24027

CONSULTANT

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

STAMP INVALID UNLESS SIGNED

POWER RISER DIAGRAM AND DETAILS

New Facility
Newton County Enrichment Center
Richard Chapel Road
Covington, Georgia

JOB NO.:	2309
DRAWN BY:	TAW
CHECKED BY:	JHM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE

REVISIONS:

1	(1) 07.09.24 VE
2	
3	
4	
5	
6	
7	

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SHEET

E5.1

OF

VOLTAGE	120	208													LOCATION	ELEC.
PHASE 3 WIRE 4															MOUNTING	SURFACE
BUS AMPS	400			PANEL		LA									MAIN	LUGS
				MAIN AMPS		400										

DESCRIPTION	VOLT AMPS			BRKR	P	CKT NO	BUS CONN	CKT NO	P	BRKR	VOLT AMPS			DESCRIPTION
	A	B	C	AMP						AMP	C	B	A	
REC. / BATH / IT LTS.	850			20	1	1	A	2	2	40			2112	HP-1
DINING LTS.		900		20	1	3	B	4				2112		
CLASS / CORR LTS.			950	20	1	5	C	6	2	40	2112			HP-2
LOBBY LIGHTS	1000			20	1	7	A	8					2112	
FOOD / ACT. / ELEC LTS.		1050		20	1	9	B	10	2	25		1186		HP-3
GAME / CORR LTS.			700	20	1	11	C	12			1186			
OFFICE LIGHTS	650			20	1	13	A	14	2	25			1186	HP-4
SPARE				20	1	15	B	16				1186		
PORT COCHERE LTS.			300	20	1	17	C	18	2	40	2112			HP-5
SPARE				20	1	19	A	20					2112	
POLE LIGHTS		900		20	1	21	B	22	2	60		4477		AH-1
POLE LIGHTS			600	20	1	23	C	24			4477			
SPARE				30	2	25	A	26	2	60			4477	AH-2
						27	B	28				4477		
LIGHT CONTROL			500	20	1	29	C	30	2	45	3720			AH-3
PAPER TOWELS	400			20	1	31	A	32					3720	
PAPER TOWELS		400		20	1	33	B	34	2	45		3720		AH-4
** FACP			500	20	1	35	C	36			3720			
TVSS				60	3	37	A	38	2	60			4477	AH-5
						39	B	40				4477		
						41	C	42	1	20				SPARE
TOTALS	2900	3250	3550								17327	21635	20196	

VOLT AMPS		
	BUS A	23096
	BUS B	24885
	BUS C	20877
	TOTAL	68858

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 37.0 KAIC
SECTION 1 OF 2
FEED THRU LUGS
** LABEL CIRCUIT PER NEC 2020 FOR FIRE ALARM CONTROL. PROVIDE HASP LOCK FOR BREAKER.

VOLTAGE	120	208													LOCATION	ELEC.
PHASE 3 WIRE 4															MOUNTING	SURFACE
BUS AMPS	400			PANEL		LA2									MAIN	LUGS
				MAIN AMPS		400										

DESCRIPTION	VOLT AMPS			BRKR	P	CKT NO	BUS CONN	CKT NO	P	BRKR	VOLT AMPS			DESCRIPTION
	A	B	C	AMP						AMP	C	B	A	
STORAGE RECEPT.	600			20	1	1	A	2	1	20			1500	AUTOMATIC DOORS
ACTIVITY ROOM REC.		800		20	1	3	B	4				1500		AUTOMATIC DOORS
ACTIVITY ROOM REC.			800	20	1	5	C	6	1	20	400			BATHROOM RECEPT.
ELECT. REC.	800			20	1	7	A	8	1	20			200	WOMEN'S SINK
CORRIDOR RECEPT.		800		20	1	9	B	10	1	20		800		WOMEN'S FLUSH
RISER RECEPT.			200	20	1	11	C	12	1	20	200			MEN'S SINK
GAME ROOM COUNTER	600			20	1	13	A	14	1	20			800	MEN'S FLUSH
SPARE				20	1	15	B	16	1	20				SPARE
GAME ROOM RECEPT.			800	20	1	17	C	18	1	20				SPARE
GAME ROOM RECEPT.	600			20	1	19	A	20	1	20			300	POLE LIGHTS
OFFICE RECEPT.		1000		20	1	21	B	22	1	20		0		SPARE
OFFICE RECEPT.			1000	20	1	23	C	24	1	20	0			SPARE
OFFICE RECEPT.	1400			20	1	25	A	26	1	20			500	CCTV DVR
OFFICE RECEPT.		1000		20	1	27	B	28	1	20		200		SOFFIT LIGHTS
STAFF RECEPT.			800	20	1	29	C	30	1	20	200			SOFFIT LIGHTS
STAFF PRINTING	1500			20	1	31	A	32	1	20				SPARE
STAFF PRINTING		1500		20	1	33	B	34	1	20				SPARE
RECEPTION REC.			400	20	1	35	C	36	1	20				SPARE
RECEPTION REC.	800			20	1	37	A	38	1	20				SPARE
RECEPTION REC.		400		20	1	39	B	40	1					SPACE
LOBBY RECEPT.			800	20	1	41	C	42	1					SPACE
TOTALS	6300	5500	4800								800	2500	3300	

VOLT AMPS		
	BUS A	9600
	BUS B	8000
	BUS C	5600
	TOTAL	23200

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 37.0 KAIC
SECTION 2 OF 2

VOLTAGE	120	208													LOCATION	ELEC.
PHASE 3 WIRE 4															MOUNTING	SURFACE
BUS AMPS	400			PANEL		LB									MAIN	LUGS
				MAIN AMPS		400										

DESCRIPTION	VOLT AMPS			BRKR	P	CKT NO	BUS CONN	CKT NO	P	BRKR	VOLT AMPS			DESCRIPTION
	A	B	C	AMP						AMP	C	B	A	
* FREEZER	800			20	1	1	A	2	3	60			6300	DISHWASHER
* REFRIGERATOR		500		20	1	3	B	4				6300		
* REFRIGERATOR			500	20	1	5	C	6			6300			
* ICE MAKER	1500			20	1	7	A	8	3	45			4200	CONVECTION OVEN
* D REFRIGERATOR		1500		20	1	9	B	10				4200		
* REFRIGERATOR			500	20	1	11	C	12			4200			
* WARMING OVEN	1500			20	1	13	A	14	1					SHUNT TRIP
WARMING OVEN		1500		20	1	15	B	16						SPARE
* RANGE			500	20	1	17	C	18	1	20	1500			KH-1(CONTROL)
SHUNT TRIP					1	19	A	20	1	20			600	HOT FOOD LIGHTS
PREP RECEPT.		400		20	1	21	B	22	1	20		650		COLD FOOD POWER
PREP RECEPT.			200	20	1	23	C	24	1	20	600			COLD FOOD LIGHTS
PREP RECEPT.	200			20	1	25	A	26	1	20			1500	KH-1
PANTRY RECEPT.		400		20	1	27	B	28	1	20		1500		KH-2
STORAGE RECEPT.			400	20	1	29	C	30	1	20	1068			KEF-1
DINING RECEPT.	1000			20	1	31	A	32	1	20			516	DEF-1
DINING RECEPT.		800		20	1	33	B	34	1	20		1500		WH-1
WAREWASHING REC.			1000	20	1	35	C	36	1	20	1500			WH-2
TVSS				60	3	37	A	38	3	20			1200	HOT FOOD POWER
						39	B	40				1200		
						41	C	42			1200			
TOTALS	5000	5100	3100								16368	15350	14316	

VOLT AMPS		
	BUS A	19316
	BUS B	20450
	BUS C	19468
	TOTAL	59234

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 37.0 KAIC
SECTION 1 OF 2
FEED THRU LUGS
* PROVIDE GFCI BREAKER

VOLTAGE	120	208													LOCATION	ELEC.
PHASE 3 WIRE 4															MOUNTING	SURFACE
BUS AMPS	400			PANEL		LB2									MAIN	LUGS
				MAIN AMPS		400										

DESCRIPTION	VOLT AMPS			BRKR	P	CKT NO	BUS CONN	CKT NO	P	BRKR	VOLT AMPS			DESCRIPTION
	A	B	C	AMP						AMP	C	B	A	
DRINK COUNTER	1500			20	1	1	A	2	2	40			2112	HP-6
DRINK COUNTER		1500		20	1	3	B	4				2112		
DRINK COUNTER			1500	20	1	5	C	6	2	40	2112			HP-7
DRINK COUNTER	1500			20	1	7	A	8					2112	
DINING RECEPT.		400		20	1	9	B	10	2	25		1186		HP-8
DINING RECEPT.			400	20	1	11	C	12			1186			
SPARE				20	1	13	A	14	2	40			2112	HP-9
SPARE				20	1	15	B	16				2112		
SPARE				20	1	17	C	18	3	60	5386			PU-1
SPARE				20	1	19	A	20					5386	
SPARE				20	1	21	B	22				5386		
SPARE				20	1	23	C	24	1					SHUNT TRIP
SPARE				20	1	25	A	26	3					SPACE
SPACE					1	27	B	28						
SPACE					1	29	C	30						
SPACE					1	31	A	32	3					SPACE
SPACE					1	33	B	34						
SPACE					1	35	C	36						
SPACE					1	37	A	38	1					SPACE
SPACE					1	39	B	40	1					SPACE
SPACE					1	41	C	42	1					SPACE
TOTALS	3000	1900	1900								8684	10796	11722	

VOLT AMPS		
	BUS A	14722
	BUS B	12696
	BUS C	10584
	TOTAL	38002

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 37.0 KAIC
SECTION 2 OF 2

VOLTAGE	120	208													LOCATION	ELEC.
PHASE 3 WIRE 4															MOUNTING	SURFACE
BUS AMPS	225			PANEL		LC									MAIN	LUGS
				MAIN AMPS		225										

DESCRIPTION	VOLT AMPS			BRKR	P	CKT NO	BUS CONN	CKT NO	P	BRKR	VOLT AMPS			DESCRIPTION
	A	B	C	AMP						AMP	C	B	A	
MDF RECEPT.	400			20	1	1	A	2	2	60			4477	AH-6
MDF RECEPT.		400		20	1	3	B	4				4477		
MDF RECEPT.			400	20	1	5	C	6	2	60	4477			AH-7
RECREATION RECEPT.	1200			20	1	7	A	8					4477	
RECREATION RECEPT.		1200		20	1	9	B	10	2	45		3720		AH-8
CORRIDOR RECEPT.			800	20	1	11	C	12			3720			
JANITOR RECEPT.	200			20	1	13	A	14	2	60			4477	AH-9
STORAGE RECEPT.		400		20	1	15	B	16				4477		
CLASS COUNTER			800	20	1	17	C	18	2	20	1144			HPU / ACU-1
SPARE				20	1	19	A	20					1144	
CLASS RECEPT.		1200		20	1	21	B	22	2	30		2250		WH-3
CLASS RECEPT.			1200	20	1	23	C	24			2250			
ACTIVITY COUNTER	200			20	1	25	A	26	1	20			172	EF-1
ACTIVITY RECEPT.		800		20	1	27	B	28	1	20		172		EF-2
ACTIVITY RECEPT.			600	20	1	29	C	30	1	20	20			EF-3
* EWC	1500			20	1	31	A	32	1	20				SPARE
* EWC		1500		20	1	33	B	34	1	20				SPARE
SPARE				20	1	35	C	36	1	20				SPARE
TVSS				60	3	37	A	38	1	20				SPARE
						39	B	40	2					SPACE
						41	C	42						
TOTALS	3500	5500	3800								11611	15096	14747	

VOLT AMPS		
	BUS A	18247
	BUS B	20596
	BUS C	15411
	TOTAL	54254

REMARKS: PANEL AND BREAKERS RATED FOR MINIMUM 37.0 KAIC
* PROVIDE GFCI BREAKER

SERVICE DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	243,548		
LIGHTING	8,600	1.25	10,750
HVAC	129,950	1.00	129,950
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	1,068	1.25	1,335
MOTOR LOAD	880	1.00	880
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	19,000	0.50	9,500
WATER HEATER	7,500	1.00	7,500
MISC LOADS	66,550	1.00	66,550
		DEMAND LOAD - VOLT-AMPERES	**236,465**
		DEMAND LOAD - 208V 3-PHASE AMPS	**656.8**

SERVICE WIREWAY IS SIZED/RATED FOR 1020 AMPS

LA/LA2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	92,058		
LIGHTING	8,600	1.25	10,750
HVAC	59,158	1.00	59,158
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	0	1.25	0
MOTOR LOAD	0	1.00	0
RECEPTACLE (FIRST 10,000 VA)	10,000	1.00	10,000
RECEPTACLE (GREATER THAN 10,000 VA)	4,000	0.50	2,000
WATER HEATER	0	1.00	0
MISC LOADS	10,300	1.00	10,300
		DEMAND LOAD - VOLT-AMPERES	**92,208**
		DEMAND LOAD - 208V 3-PHASE AMPS	**256.1**

PANEL IS SIZED/RATED FOR 400 AMPS

LB/LB2 DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	97,236		
LIGHTING	0	1.25	0
HVAC	34,202	1.00	34,202
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	1,068	1.25	1,335
MOTOR LOAD	516	1.00	516
RECEPTACLE (FIRST 10,000 VA)	5,200	1.00	5,200
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	3,000	1.00	3,000
MISC LOADS	53,250	1.00	53,250
		DEMAND LOAD - VOLT-AMPERES	**97,503**
		DEMAND LOAD - 208V 3-PHASE AMPS	**270.8**

PANEL IS SIZED/RATED FOR 400 AMPS

LC DEMAND CALCULATIONS

	CONNECTED LOAD (VA)	DEMAND FACTOR	CALCULATED DEMAND (VA)
TOTAL CONNECTED LOAD (VA)	54,254		
LIGHTING	0	1.25	0
HVAC	36,590	1.00	36,590
HVAC (CONTINUOUS)	0	1.25	0
LARGEST MOTOR	172	1.25	215
MOTOR LOAD	192	1.00	192
RECEPTACLE (FIRST 10,000 VA)	9,800	1.00	9,800
RECEPTACLE (GREATER THAN 10,000 VA)	0	0.50	0
WATER HEATER	4,500	1.00	4,500
MISC LOADS	3,000	1.00	3,000
		DEMAND LOAD - VOLT-AMPERES	**54,297**
		DEMAND LOAD - 208V 3-PHASE AMPS	**150.8**

PANEL IS SIZED/RATED FOR 225 AMPS

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MACON, GA 31201
EDC* M24027

CONSULTANT

GEORGIA REGISTERED PROFESSIONAL ENGINEER JEFFREY H. McGEE

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ELECTRICAL SCHEDULES AND DEMAND CALCULATIONS

New Facility
Newton County Enrichment Center

Richard Chapel Road Covington, Georgia

JOB NO.:	2309
DRAWN BY:	TAW
CHECKED BY:	JHM
DESCRIPTION:	SCH-REVIEW
DATE:	02.12.24
DESCRIPTION:	DD-REVIEW
DATE:	03.11.24
DESCRIPTION:	CD-REVIEW
DATE:	03.25.24
DESCRIPTION:	BID & CONSTRUCTION
DATE:	04.04.24 / 07.03.2024 VE

REVISIONS:

1	1	07.09.24 VE
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COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Newton County Enrichment Center
Project Type: New Construction

Construction Site:
Richard Chapel Road
Convington, GA 30016

Owner/Agent:

Designer/Contractor:
Electrical Design Consultants
175 New Street
Suite 1
Macon, GA 31201

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Enrichment Center (School/University)	7938	0.87	6906
		Total Allowed Watts =	6906

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)
1-Enrichment Center (School/University)				
A: A: 2 FT. X 4 FT. TROFFER: LED Panel 54W:	1	8	51	408
B: B: 2 FT. X 4 FT. TROFFER: LED Panel 41W:	1	15	42	630
C: C: 2 FT. X 4 FT. TROFFER: LED Panel 33W:	1	65	34	2210
CS: CS: 2 FT. X 4 FT. TROFFER: LED Panel 33W:	1	16	34	544
D: D: 6 IN. DOWNLIGHT: LED Other Fixture Unit 16W:	1	12	18	216
E: E: 4 FT. LINEAR: LED Other Fixture Unit 36W:	1	16	36	576
F: F: 6 IN. ROUND CYLINDER: LED Other Fixture Unit 13W:	1	12	7	84
G: G: ARCHITECTURAL CHANDELIER: LED Other Fixture Unit 60W:	1	1	60	60
			Total Proposed Watts =	4728

Interior Lighting PASSES: Design 32% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design 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 Inspection Checklist.

Jeffrey H. McGee, PE — Name - Title
Signature
07/03/24 — Date

Project Title: Newton County Enrichment Center
Report date: 07/03/24
Data filename: Z:\2024 CAD\M24027 Newton Co Enrichment Center\WORKING DRAWINGS\ELEC\LIGHTING\NC Enrichment Center COMcheck.cck

COMcheck Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Newton County Enrichment Center
Project Type: New Construction
Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site:
Richard Chapel Road
Convington, GA 30016

Owner/Agent:

Designer/Contractor:
Electrical Design Consultants
175 New Street
Suite 1
Macon, GA 31201

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
DRIVEWAY (Driveway)	3000 ft2	0.06	Yes	180
PARKING (Parking area)	15500 ft2	0.06	Yes	930
BUILDING EXTERIOR (Walkway < 10 feet wide)	433 ft of	0.7	Yes	303
BACK LAWN (Special feature area)	8000 ft2	0.14	Yes	1120
		Total Tradable Watts (a) =		2533
		Total Allowed Watts =		2533
		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)
DRIVEWAY (Driveway 3000 ft2): Tradable Wattage				
OC: OC: LED AREA LIGHT: Other:	1	2	150	300
PARKING (Parking area 15500 ft2): Tradable Wattage				
OA: OA: 6 IN DOWNLIGHT: LED Other Fixture Unit 16W:	1	9	18	162
OC: OC: LED AREA LIGHT: Other:	1	4	150	600
OD: OD: TWO HEAD LED AREA LIGHT: Other:	2	2	300	600
BUILDING EXTERIOR (Walkway < 10 feet wide 433 ft of walkway length): Tradable Wattage				
OG: OB: ARCHITECTURAL SCONCE: LED Other Fixture Unit 60W:	1	2	45	90
OF: OF: 6 IN. DOWNLIGHT: LED Other Fixture Unit 13W:	1	37	11	407
BACK LAWN (Special feature area 8000 ft2): Tradable Wattage				
OE: OE: LED FLOOD LIGHT: Other:	1	2	150	300
			Total Tradable Proposed Watts =	2459

Project Title: Newton County Enrichment Center
Report date: 07/03/24
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Exterior Lighting PASSES: Design 22% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design 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 Inspection Checklist.

Jeffrey H. McGee, PE — Name - Title
Signature
07/03/24 — Date

Project Title: Newton County Enrichment Center
Report date: 07/03/24
Data filename: Z:\2024 CAD\M24027 Newton Co Enrichment Center\WORKING DRAWINGS\ELEC\LIGHTING\NC Enrichment Center COMcheck.cck

ALPHA BLDG SET 09-04-2024

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LIGHTING COMCHECK REPORTS

New Facility
Newton County Enrichment Center

Richard Chapel Road
Covington, Georgia

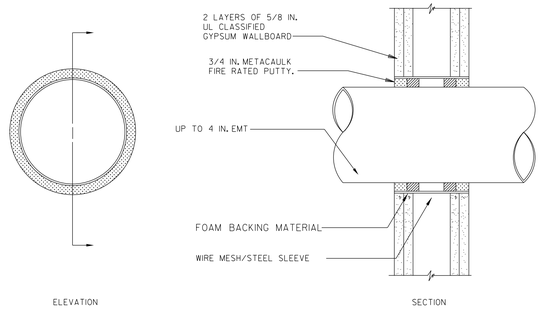
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REVISIONS:

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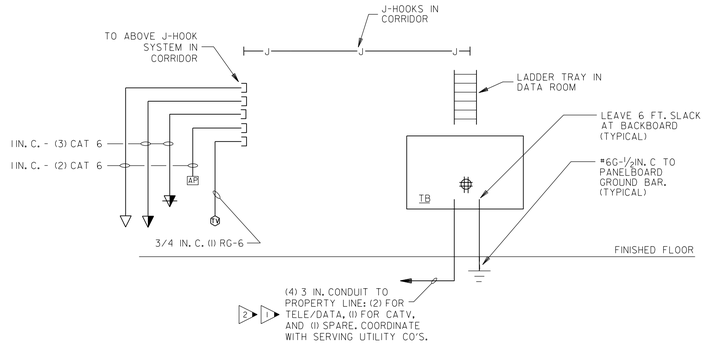
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NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

4 / E6.1 DETAIL - GYPSUM WALLBOARD PENETRATION

NOT TO SCALE

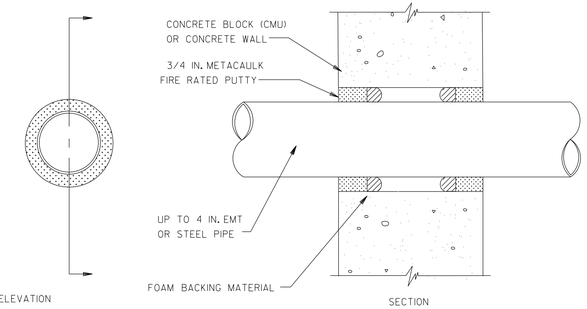


1 / E6.1 TELEPHONE/DATA/CATV RISER

NOT TO SCALE

KEYED NOTES: (DETAIL 1/E-7.2 ONLY)

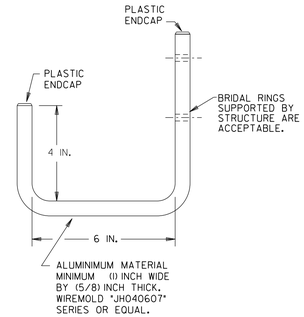
1. PROVIDE (2) - 3 IN. CONDUITS FOR DATA/TEL, (1) CONDUIT FOR 50 PAIR EXTERIOR RATED, GEL FILLED COPPER CAT 6, (1) CONDUIT FOR 12 STRAND HYBRID FIBER. COORDINATE WITH OWNER FOR EXACT FIBER SPECIFICATIONS AND TERMINATIONS. COORDINATE EXACT DATA/TEL STUB OUT LOCATIONS AT STREET WITH SERVING UTILITY COMPANIES.
2. PROVIDE (1) - 3 IN. CONDUIT WITH PULL STRING FOR CATV SYSTEM. COORDINATE EXACT STUB OUT LOCATION AT STREET WITH SERVING UTILITY COMPANY.



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.

5 / E6.1 DETAIL - CONCRETE WALL PENETRATION

NOT TO SCALE



2 / E6.1 J-HOOK DETAIL

NOT TO SCALE

WIRE MANAGEMENT NOTES

NOTES:

A. ALL J- HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.

B. PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.

C. WHERE J-HOOKS ARE (2) ROWS: SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.

D. CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.

E. FIRE SEAL AROUND ALL CONDUIT SLEEVES. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.

F. COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.

G. J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD. SEE ARCHITECTURAL PLAN FOR WALL MATERIALS.

H. ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING "NOT A CINCH" TYPE RATED VELCRO TIE WRAPS.

I. J-HOOKS SHALL SUPPORT CABLING FOR: FIRE ALARM, DATA, TELEPHONE, CABLETV, AND SECURITY.

J. ONE ROW SHALL SUPPORT DATA/TELEPHONE CABLING. ONE ROW SHALL SUPPORT CABLETV CABLING, ONE ROW SHALL SUPPORT FIRE ALARM SYSTEM, ONE ROW SHALL SUPPORT SECURITY CABLING.

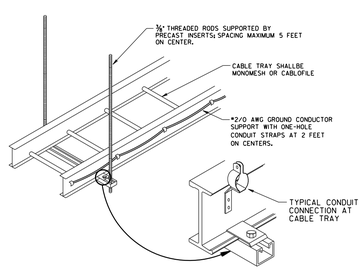
K. SEE DETAIL - CONCRETE WALL PENETRATION, 5/E6.1.

L. SEE DETAIL - GYPSUM WALLBOARD PENETRATION, 4/E6.1.

M. WHERE J-HOOKS ARE SHOWN ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE, PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PRE 3/8 IN THREADED ROD.

N. PROVIDE (2) 2 INCH CONDUIT SLEEVES INTO ALL SPACES FROM CORRIDOR WHERE RATED WALLS OCCUR.

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3 / E6.1 LADDER CABLE TRAY

NOT TO SCALE

NOTE: LADDER TRAY ONLY IN DATA AND LOW VOLTAGE ROOMS.

GENERAL NOTES: (DATA CABLING)

1. ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
2. ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE.
   - D M XXX
     - XXX — JACK NUMBER
     - M — MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED.
     - D — D OR V INDICATING VOICE OR DATA OUTLET.

   ALL PATCH PANELS AND IIO BLOCKS SHALL BE CORRESPONDINGLY LABELED.
3. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
4. REFER TO 1/4IN. PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
5. GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6G, 3/4IN. C. TO GROUND PLATE. PROVIDE 12 IN. CABLE RUNWAY SPANNING FROM TOP OF RACK TO WALL AND TURNED UP TO ABOVE DROP TILE CEILING IN ORDER TO ROUTE CABLE TO RACK. AT EACH RACK LOCATION PROVIDE A 3/4IN.x4 FT.x8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.
6. TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.
7. REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
8. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
9. FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
10. CABLING FOR COMPUTER DATA SHALL BE ROUTED VIA CABLE TRAY SYSTEM. PROVIDE CONDUIT TO 6 IN. ABOVE ACCESSIBLE CEILING. BUNDLE CABLES, SLEEVE THROUGH CORRIDOR WALL USING 4 IN.C.
11. NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS AND FIBER OPTIC PATCH CORDS ARE INCLUDED IN CONTRACT.
12. REFER TO POWER SHEETS FOR ADDITIONAL INFORMATION.
13. SEE WIRE MANAGEMENT NOTES.

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