CODE RESEARCH

Applicable Codes:

Building Code: 2021 International Building Code (IBC)
Fire Code: 2021 AR Fire Prevention Code (AFPC) with appendices A-G
Energy Code: 2014 Arkansas Energy Code
Plumbing Code: 2018 Arkansas Plumbing Code 9th edition
Mechanical Code: 2021 International Mechanical Code
Electrical Code: 2020 Arkansas Electrical Code

Building Code Requirements:

Occupancy (304.1 & 306.2): Business Group B
Construction Type: Type VB Unsprinkled
Allowable Area (Table 503): 9000 sq ft
Actual Area: 3932 sq ft gross
Fire-Resistance Rating Requirements for Building Elements (Table 601 & 602):

Primary Structural Frame:	0 hrs
Exterior Bearing Walls:	0 hrs
Interior Bearing Walls:	0 hrs
Nonbearing Exterior Walls:	0 hrs
Nonbearing Interior Walls:	0 hrs
Floor Construction:	0 hrs
Roof Construction:	0 hrs

Portable Fire Extinguishers (906):
Ordinary Hazard Occupancy requires type 2-A extinguishers. One type 2-A extinguisher serves 1500 sq ft.

Occupant Load (Table 1004.1.2):
Business Area: 150 Gross
3932 sq ft / 150 = 26.21 occupants

Means of Egress Required Capacity based on Occupant Load (1005.3):
5.247" required based on 0.2" means of egress factor times the 26.21 occupant load

Size of Doors (1008.1): Minimum of 32" clear width

Common Path of Egress Travel (Table 1014.3):
B with 30 occupants or less 100' (Note: overall building length is less than 100')

Exit Access Travel Distance (Table 1016.2):
200 ft for Group B (Note: overall building length is less than 100')

CMTC BUILDING 1486 RENOVATIONS

1486, 4TH AVE., FORT CHAFFEE, AR 72905

MILITARY DEPARTMENT OF ARKANSAS

DBA PROJECT # - 9752622

100% CONSTRUCTION DOCUMENTS

06/01/26

VICINITY MAP

STATE MAP

GENERAL NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL ESTABLISH LOCATION OF ALL PARTITIONS. LARGER SCALE DRAWINGS HAVE PRIORITY OVER SMALLER SCALE DRAWINGS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
2. NOTES TO "ALIGN" SHALL MEAN TO ALIGN FINISHED FACE OF PARTITION UNLESS OTHERWISE NOTED AND SHALL HAVE PRIORITY OVER A DIMENSIONED LOCATION.
3. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING OR METAL BLOCKING AS SHOWN OR AS REQUIRED FOR ATTACHMENT OF WALL MOUNTED HARDWARE, TOILET ACCESSORIES, CASEWORK, MILLWORK, FINISH CARPENTRY AND WHEREVER ELSE IT MAY BE REQUIRED FOR THE SECURE ATTACHMENT OF ADJOINING WORK REFER TO SPECIFICATION SECTION 06100 FOR SPECIFICS ON WOOD BLOCKING.
4. PLAN DIMENSIONS SHOWN ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE ON DETAILS.
5. INSTALL FLOOR & OVERHEAD TRACKS IN CONT. BEAD OF ACOUSTICAL SEALANT. INSTALL ELEC. BOXES ON OPPOSITE SIDES OF WALL 24" APART MIN. INSTALL ACOUSTIC BATT INSULATION BETWEEN STUDS AS REQUIRED TO ACHIEVE STC RATING PER PARTITION SCHEDULE. INSULATE BETWEEN STUDS AND HOLLOW METAL FRAMES-TYP FOR ALL.
6. MAINTAIN FIRE RATING AT RECESSED PANELS AND CABINETS.
7. **CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND IN THE CONTRACT DOCUMENTS. WORK PERFORMED WITHOUT CLARIFICATION FROM ARCHITECT IS ENTIRELY AT CONTRACTOR'S RISK.**

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ARCHITECT IS TO CONDUCT CONSTRUCTION OBSERVATION OF THE CONTRACTOR'S PERFORMANCE AND IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, OR NEAR THE CONSTRUCTION SITE.

OWNERSHIP OF DOCUMENTS

THESE DOCUMENTS, AND THE DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, ARE THE PROPERTY OF FENNELL PURIFOY ARCHITECTS, PLC, AND ARE NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF FENNELL PURIFOY ARCHITECTS, PLC.

A QUALITY CONTROL CHECK, INCLUDING THE APPROPRIATE COORDINATION AMONG DISCIPLINES, HAS BEEN MADE ON THIS PROJECT'S DOCUMENTS, AND CORRECTIONS RELATED TO THIS CHECK HAVE BEEN MADE. THE UNDERSIGNED PRINCIPAL / OWNER STATES THAT THESE PLANS AND SPECIFICATIONS AS SUBMITTED FOR REVIEW ARE, TO THE BEST OF HIS/HER KNOWLEDGE AND ABILITY, COMPLETE AND READY FOR REVIEW.

SIGNED _____ DATE 06-01-26

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS [AFPC V1 1-303]

SIGNED _____ DATE 06-01-26

CONSULTANTS

MECHANICAL / PLUMBING

TRU ENGINEERING, LLC

4 WINDY RIDGE
SEARCY, AR 72143

P: (501) 993-7149

ELECTRICAL

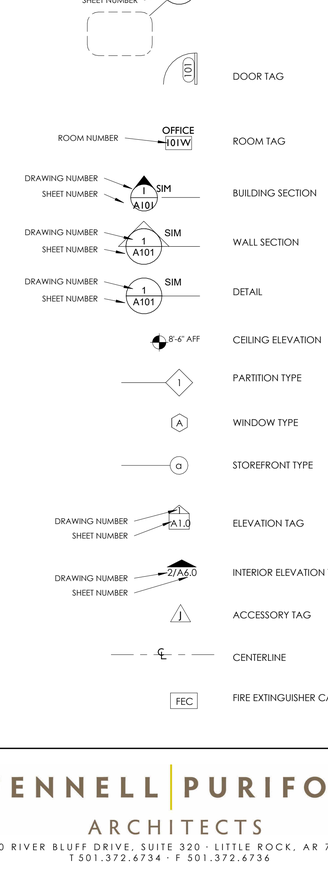
RAINWATER ENGINEERING, PLLC

17 CORPORATE HILL DR, STE B
LITTLE ROCK, AR 72205

P: (501) 837-7745

DRAWING INDEX

SYMBOL LEGEND



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REGISTERED ARCHITECTS — FENNELL PURIFOY — No. LL-2 — ARKANSAS

CMTC BUILDING 1486 RENOVATIONS
1486, 4TH AVE., FORT CHAFFEE, AR 72905

REVISIONS:

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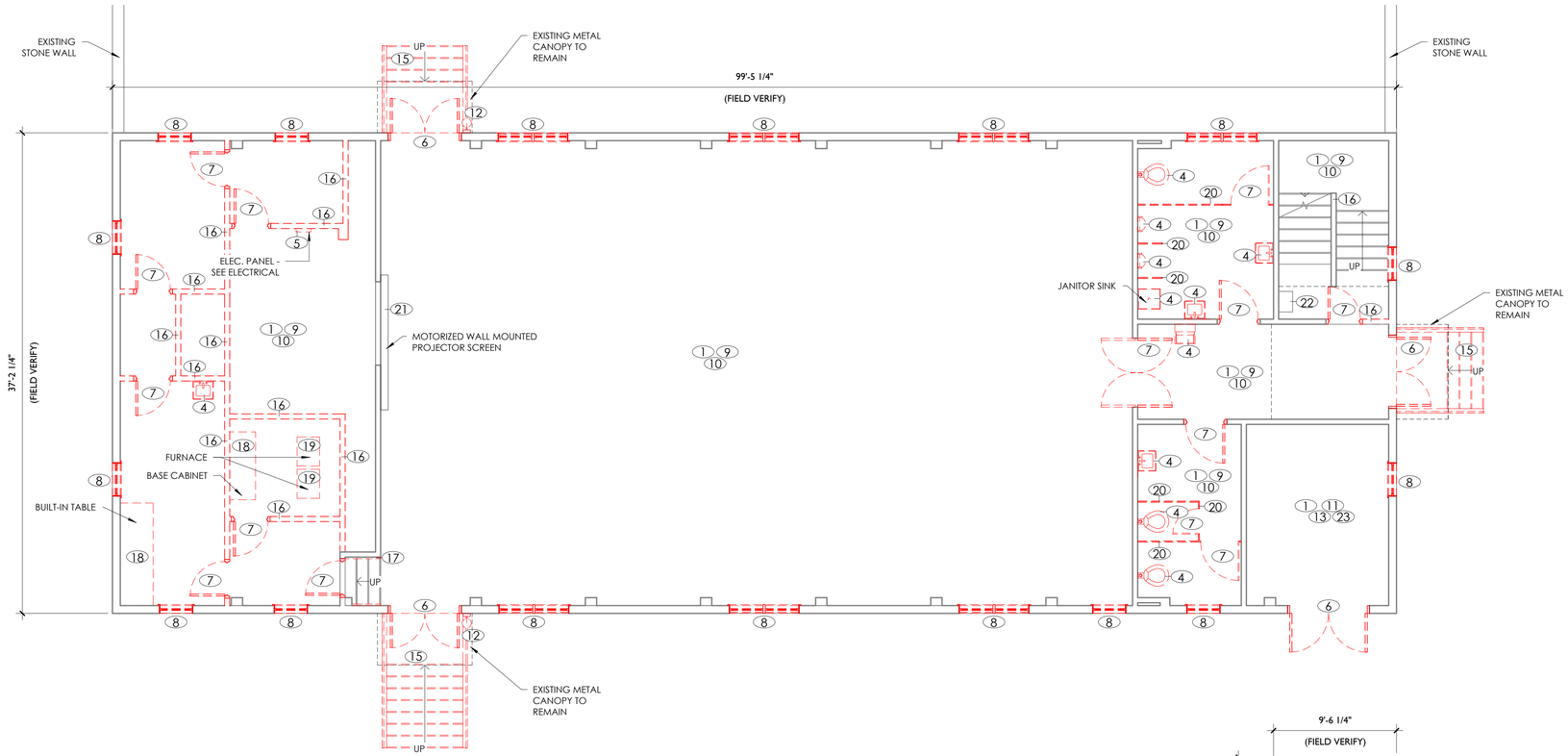
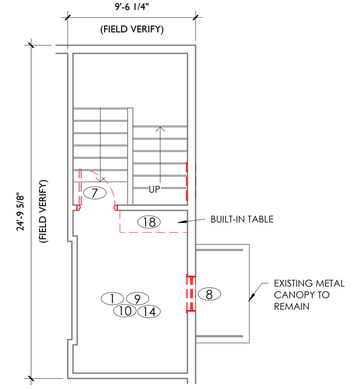


1 FIRST FLOOR DEMO PLAN
3/16" = 1'-0"



2 SECOND FLOOR DEMO PLAN
3/16" = 1'-0"

DEMOLITION KEYNOTES

1. REMOVE EXISTING WALL FINISHES, TRIM, AND BASE TO THE STUDS.
2. REMOVE EXISTING LAY-IN CEILING GRID, TILES, AND ALL ASSOCIATED SUPPORTS.
3. REMOVE EXISTING LIGHTS, FIRE ALARM STROBES, SMOKE DETECTORS, AND ASSOCIATED WIRING.
4. REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED COMPONENTS.
5. REMOVE EXISTING ELECTRICAL PANEL.
6. REMOVE EXISTING HM DOOR AND FRAME.
7. REMOVE EXISTING DOOR AND FRAME.
8. REMOVE EXISTING WINDOW AND ASSOCIATED INTERIOR WOOD TRIM. TAKE CARE NOT TO DAMAGE EXTERIOR METAL SIDING DURING REMOVAL.
9. REMOVE ALL FLOORING AND BASE DOWN TO SUBFLOOR.
10. REMOVE ALL SWITCHES, OUTLETS, AND ASSOCIATED WIRING BACK TO THE PANEL. PREPARE THE SPACE TO RECEIVE NEW ELECTRICAL WIRING AND DEVICES.
11. REMOVE EXISTING HVAC UNIT AND ALL ASSOCIATED PIPING AND DUCTWORK.
12. REMOVE EXTERIOR LIGHT FIXTURE.
13. REMOVE EXISTING GYPSUM CEILING.
14. CLEAN AND PREP CONCRETE SLAB TO RECEIVE NEW FLOORING.
15. REMOVE EXISTING CONCRETE STAIR AND ASSOCIATED FOOTINGS.
16. REMOVE WALL IN ITS ENTIRETY.
17. REMOVE EXISTING INTERIOR RAILING.
18. REMOVE EXISTING FURNITURE AND CASEWORK.
19. REMOVE EXISTING FURNACE.
20. REMOVE EXISTING TOILET PARTITIONS.
21. PROJECTOR SCREEN TO BE REMOVED AND PROPERLY STORED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR. SCREEN TO BE REINSTALLED BY THE CONTRACTOR AS PART OF THE PROJECT SCOPE.
22. GENERAL CONTRACTOR TO PROTECT THE EXISTING DATA RACK UNTIL THE OWNER COMES TO SALVAGE IT OR APPROVES THE DISPOSAL OF THE RACK AND COMPONENTS.
23. GENERAL CONTRACTOR TO REMOVE, STORE AND REINSTALL THE GAS FIRED HEATER IN THE MECHANICAL ROOM.

GENERAL NOTES

1. ALL MATERIALS NOT SALVAGED BACK TO THE OWNER MUST BE DISPOSED OF IN PROPER ONSITE DUMPSTER. CONTRACTORS AND SUBCONTRACTORS ARE NOT ALLOWED TO TAKE ANY MATERIALS FROM THE SITE FOR RESALE OR PERSONAL USE.
2. HVAC UNITS TO BE REPLACED ALONG WITH A NEW DUCTWORK SYSTEM - REFER TO MECHANICAL PLANS.
3. EXISTING CANOPIES TO REMAIN AND BE CLEANED.

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DEMOLITION PLANS
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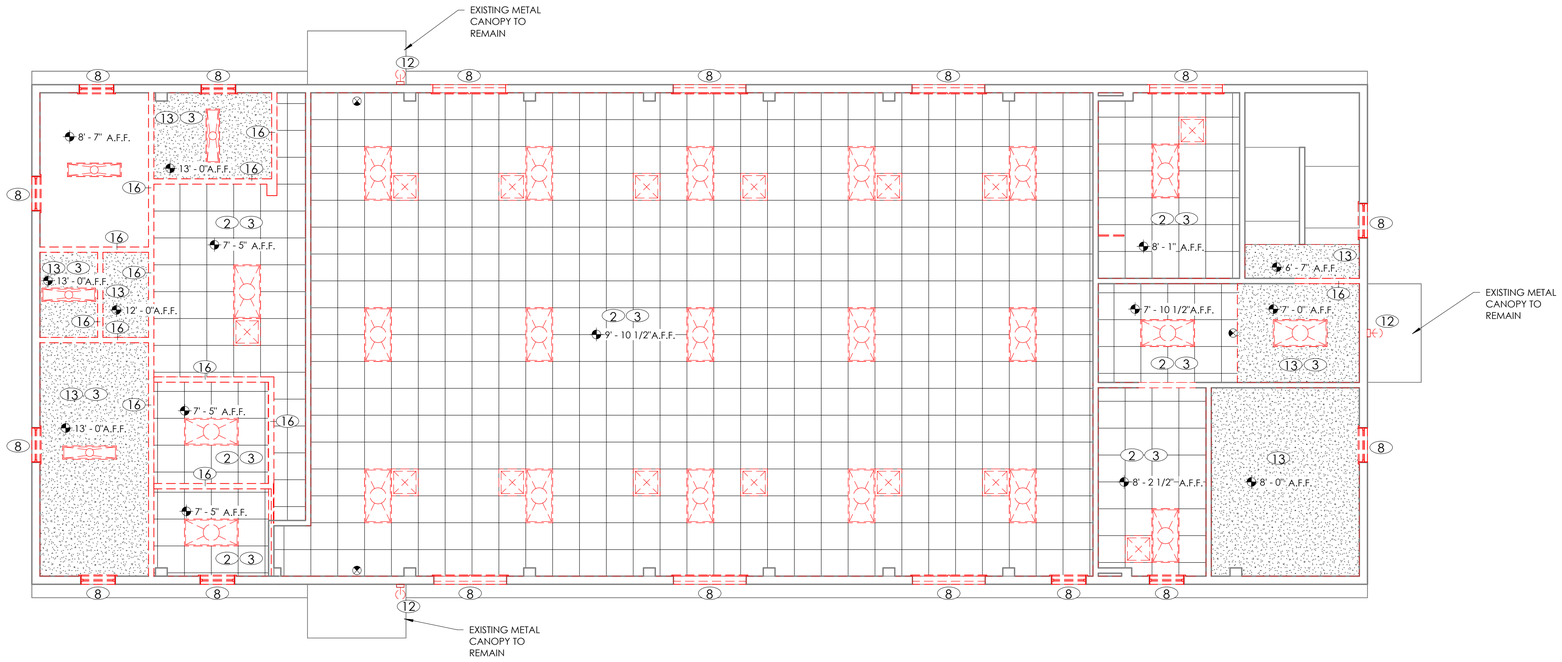

1 FIRST FLOOR REFLECTED CEILING DEMO PLAN
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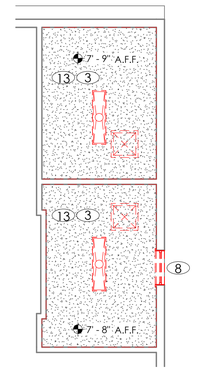

2 SECOND FLOOR REFLECTED CEILING DEMO PLAN
3/16" = 1'-0"

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DEMOLITION PLANS
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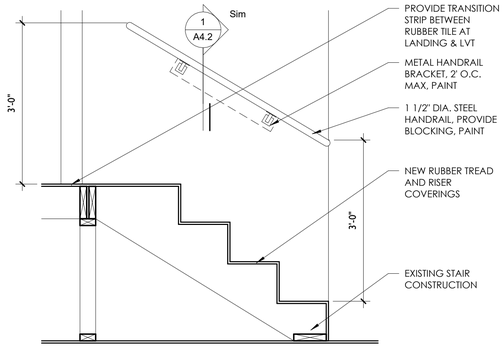
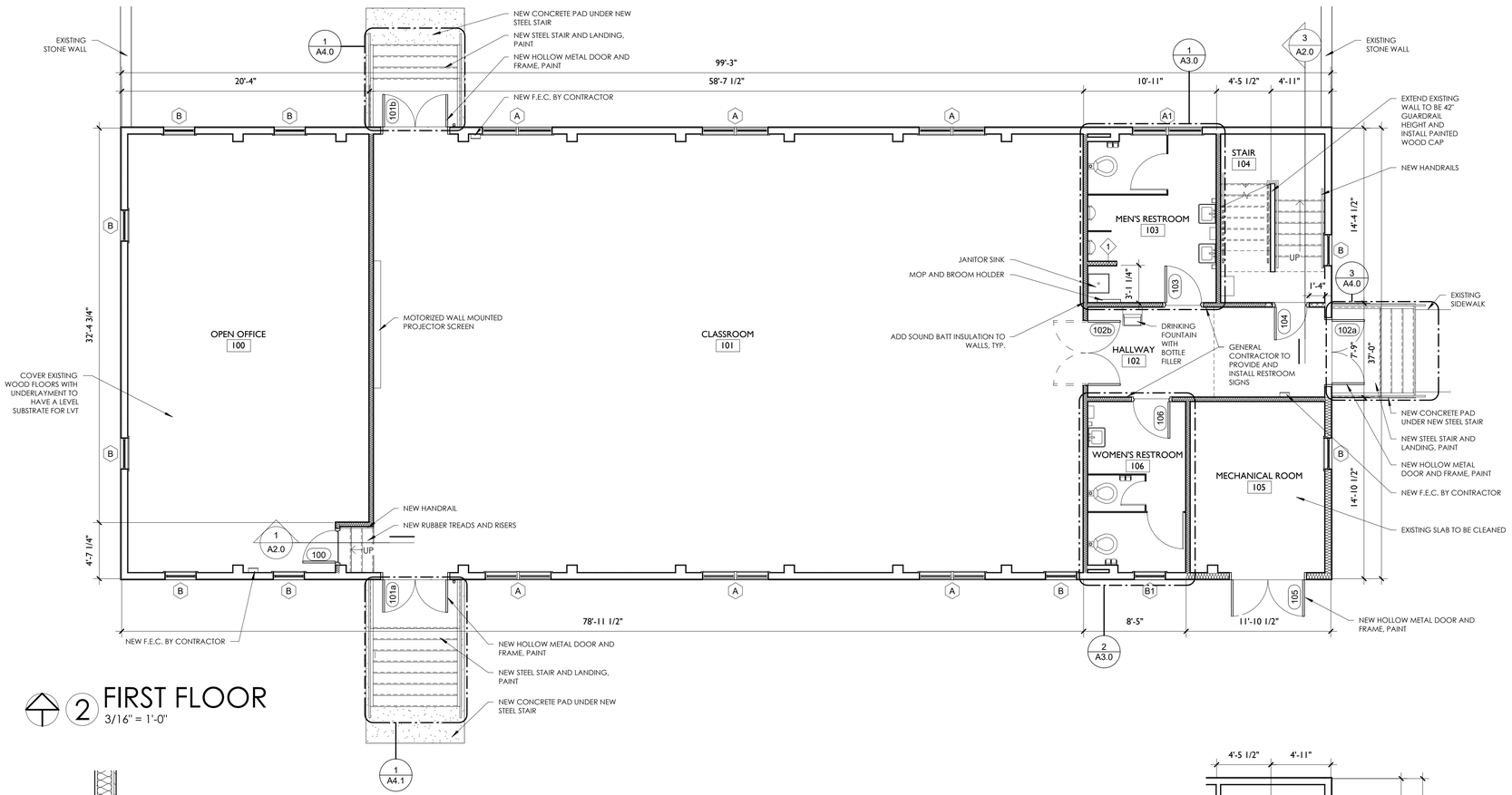


1 STAIR SECTION
3/4" = 1'-0"



2 FIRST FLOOR
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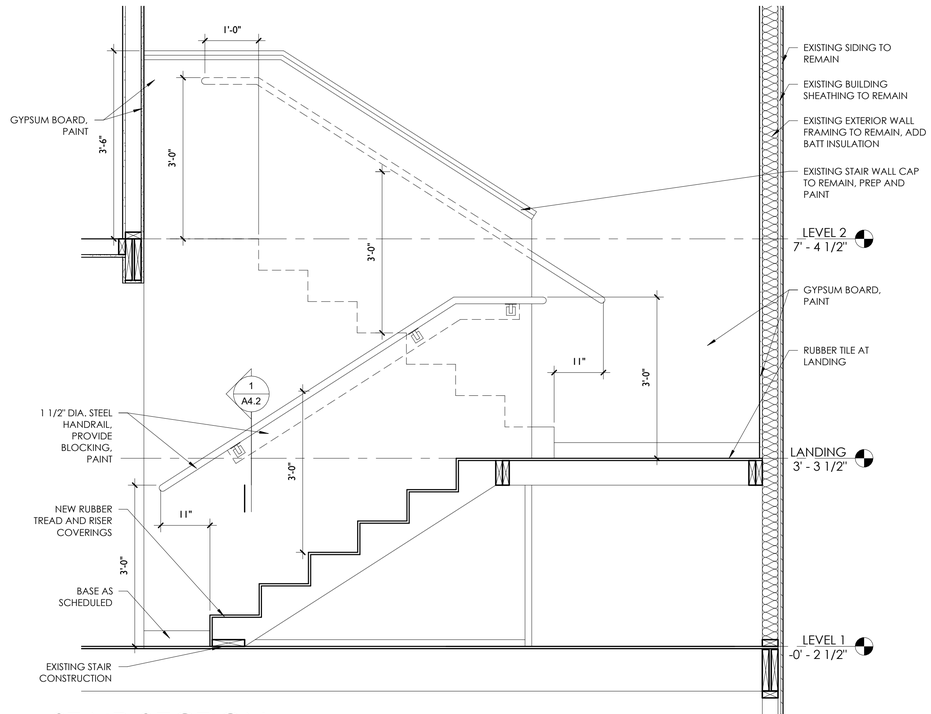


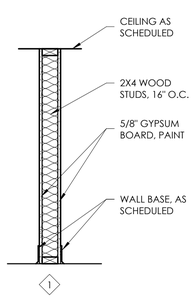
3 STAIR SECTION
3/4" = 1'-0"

PLAN NOTES:

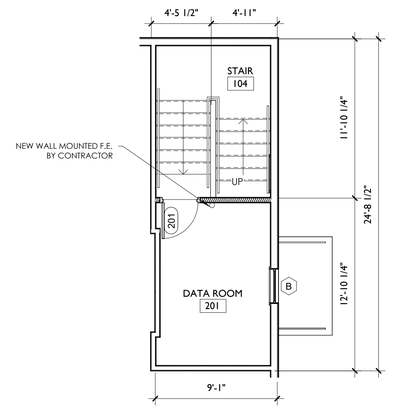
1. DIMENSIONS ARE TAKEN FROM FACE OF STUD TO FACE OF STUD.
2. ALL WINDOWS TO RECEIVE NEW BLINDS.
3. PROVIDE NEW METAL THRESHOLDS AT ALL EXTERIOR DOORS.
4. MOP AND BROOM HOLDER IS LOCATED IN THE MALE RESTROOM.
5. INSTALL NEW 6" BATT INSULATION IN ALL OF THE PERIMETER EXTERIOR WALLS.
6. OWNER TO PROVIDE TRASH CANS FOR RESTROOMS.
7. POWER WASH EXISTING METAL SIDING AND UNDERPINNING.
8. GENERAL CONTRACTOR TO TAKE DOWN PROJECTOR SCREEN, STORE, AND REINSTALL ONCE WALLS GET NEW SHEETROCK AND PAINT.

NEW WALLS SHOWN IN HATCH

ADD SOUND BATT INSULATION TO WALL



PARTITION TYPES
3/4" = 1'-0"



4 SECOND FLOOR
3/16" = 1'-0"

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FLOOR PLANS
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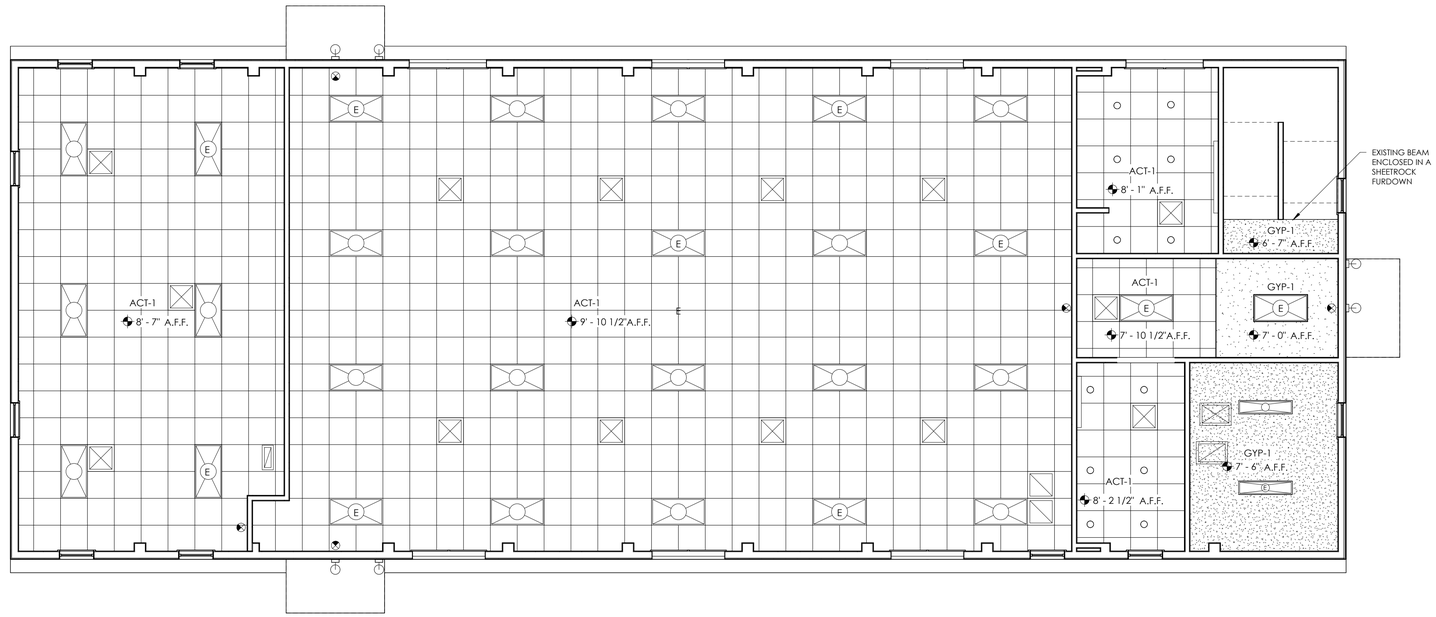


1 FIRST FLOOR REFLECTED CEILING PLAN
3/16" = 1'-0"

PLAN NOTES:

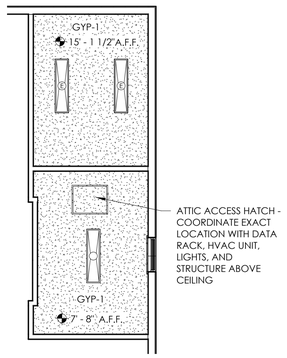
1. INSTALL 5/8" TYPE X SHEETROCK TO THE UNDERSIDE OF THE ROOF TRUSSES.
2. ATTIC TO RECEIVE ?" OF BLOWN INSULATION.

ELECTRICAL LEGEND

- 2x4 TROFFER
- 2x4 TROFFER - EMERGENCY
- 1x4 TROFFER
- 1x4 TROFFER - EMERGENCY
- SUPPLY AIR DIFFUSER
- RETURN AIR REGISTER
- EXIT SIGN
- EXTERIOR WALL MOUNTED LIGHT FIXTURE
- WALL MOUNTED STRIP LIGHT FIXTURE
- 6" LED DOWNLIGHT

CEILING TYPES

- ACT - 1; ACOUSTIC CEILING TILE
- GYP - 1; GYPSUM HARD CEILING, PAINT



2 SECOND FLOOR REFLECTED CEILING PLAN
3/16" = 1'-0"

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REFLECTED CEILING PLANS

A2.1

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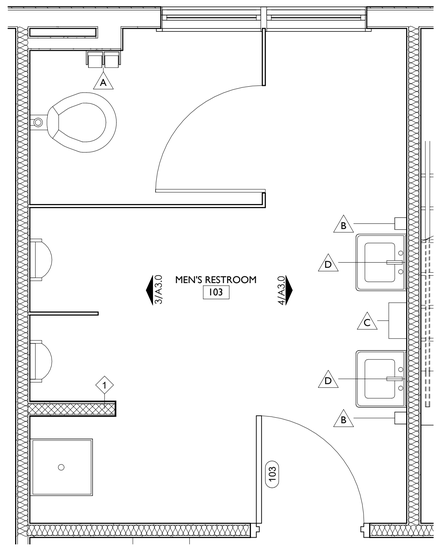
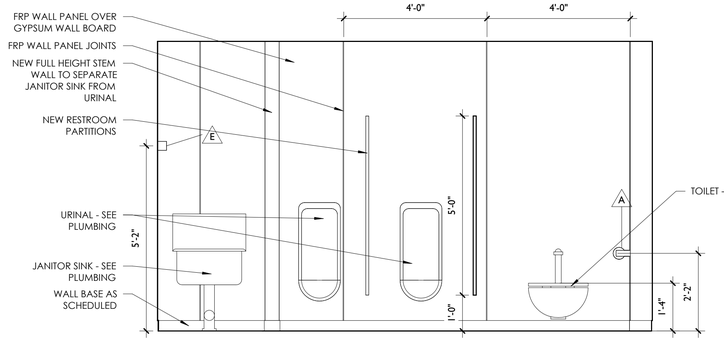
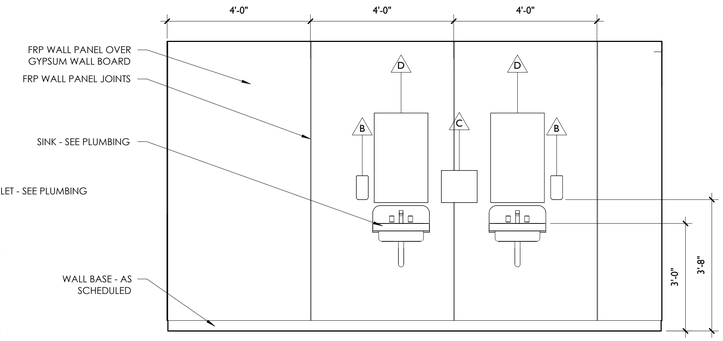


1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"



3 RESTROOM ELEVATION
1/2" = 1'-0"



4 RESTROOM ELEVATION
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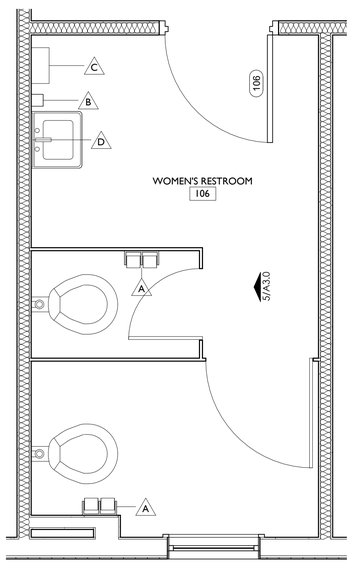
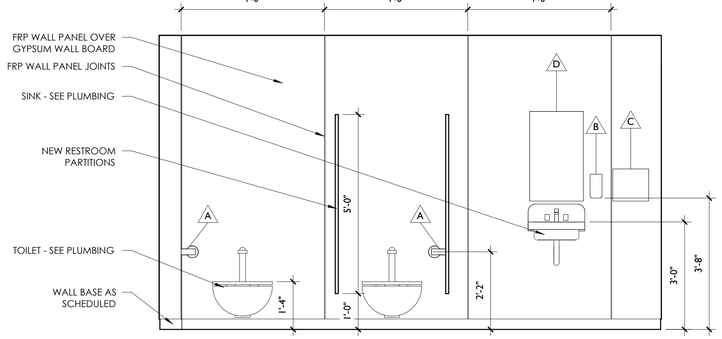


2 ENLARGED RESTROOM PLAN
1/2" = 1'-0"

NEW WALLS SHOWN IN HATCH

ADD SOUND BATT INSULATION TO WALL



5 RESTROOM ELEVATION
1/2" = 1'-0"

ACCESSORY SCHEDULE

A	DOUBLE TOILET PAPER DISPENSER
B	WALL MOUNTED SOAP DISPENSER
C	WALL MOUNTED PAPER TOWEL DISPENSER
D	18" X 30" FRAMELESS MIRROR
E	WALL MOUNTED MOP AND BROOM HOLDER

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ENLARGED FLOOR PLANS/ELEVATIONS

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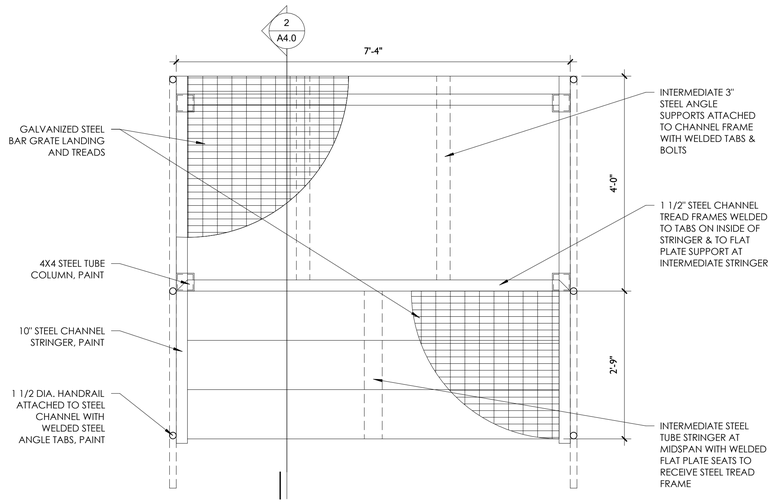

1 STAIR PLAN
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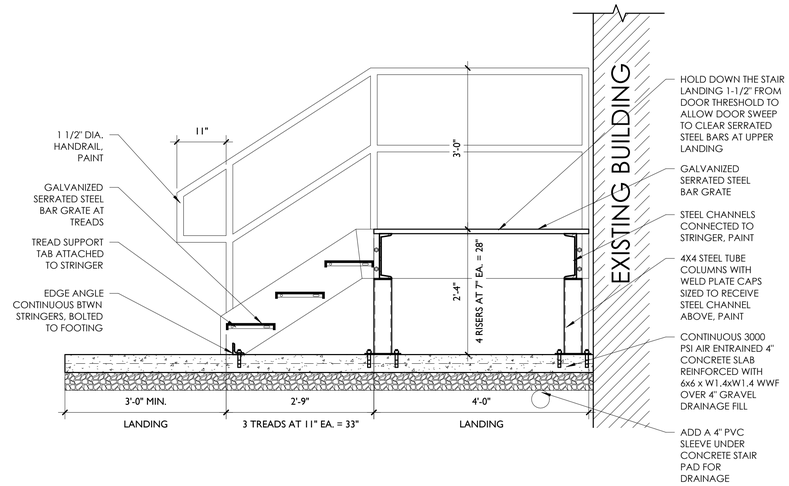

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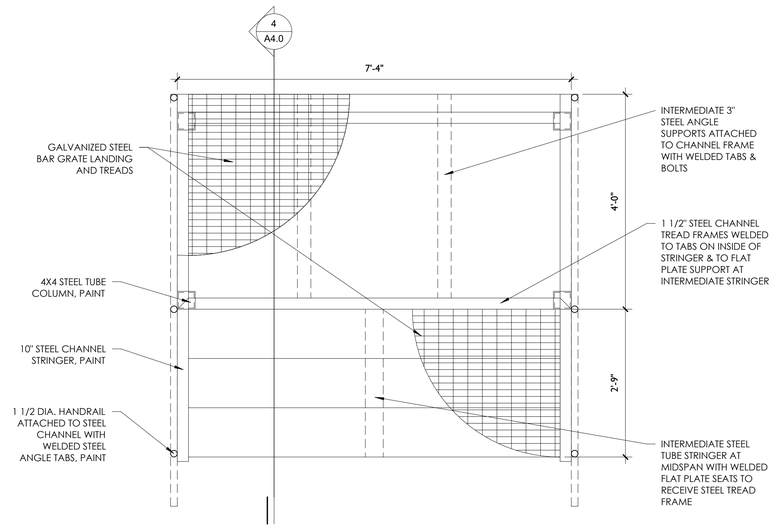

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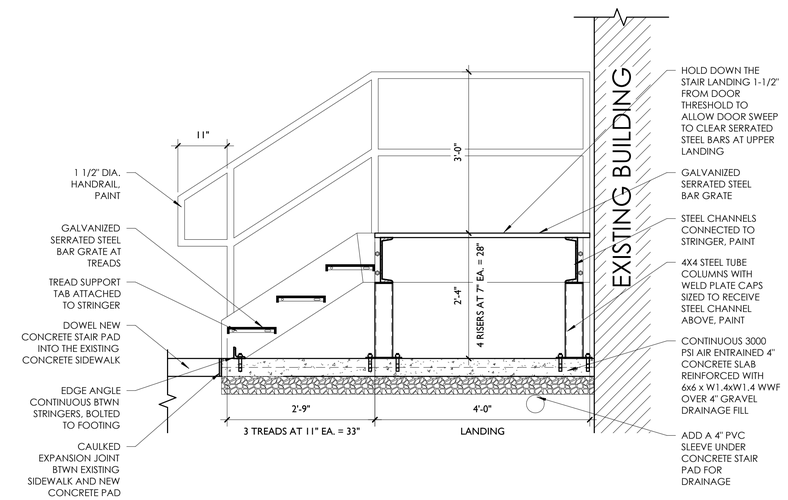

4 STAIR SECTION
3/4" = 1'-0"

STAIR NOTES:

1. CONTRACTOR TO FIELD VERIFY OVERALL REQUIRED STAIR HEIGHT FOR FINAL CALCULATION OF STAIR RISE AND RUN.
2. RISERS TO BE EQUAL HEIGHT AT 7" MAX.
3. CONCRETE PAD UNDER STAIR TO TIE IN TO EXISTING SIDEWALKS WHERE APPLICABLE. WHERE NO EXISTING SIDEWALK EXISTS, THE NEW PAD SHOULD EXTEND A MINIMUM OF 3'-0" PAST THE BOTTOM OF THE STAIR.
4. ALL WELDS TO BE GROUND SMOOTH AND MADE READY FOR FIELD PAINTING.

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CMTC BUILDING 1486 RENOVATIONS
1486, 4TH AVE., FORT CHAFFEE, AR 72905

REVISIONS:
100% CONSTRUCTION DOCUMENTS
06/01/26

STAIR DETAILS
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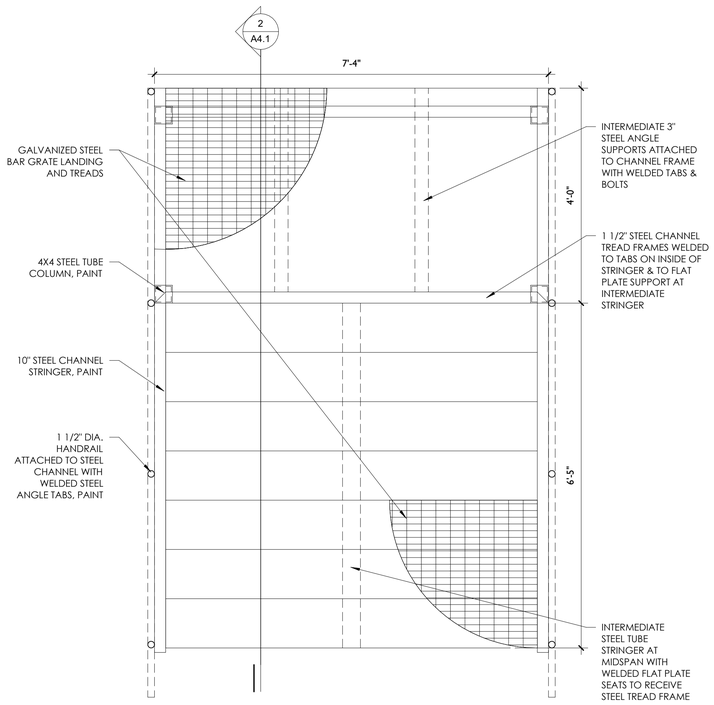
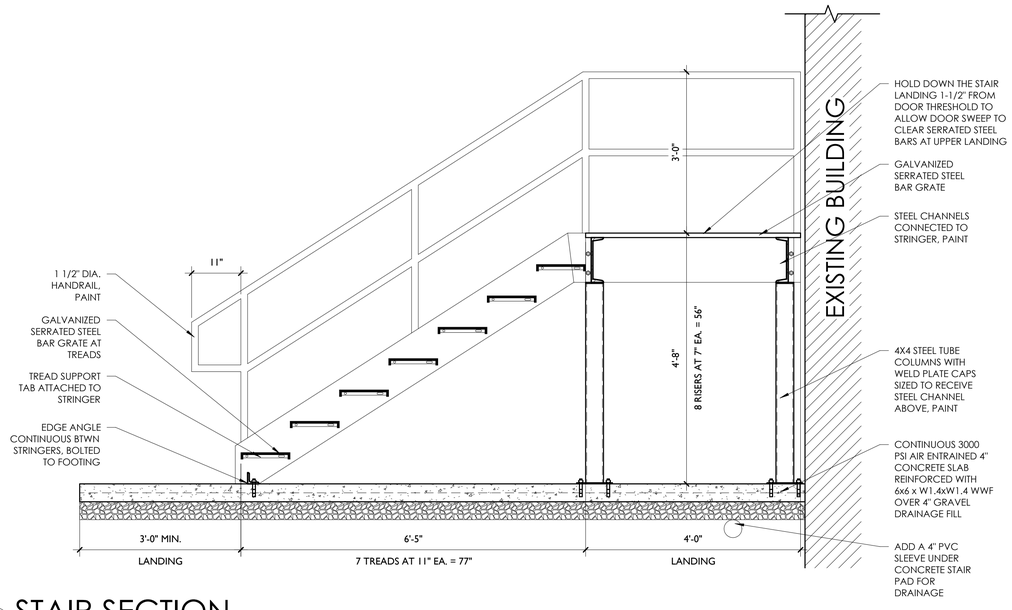


1 STAIR PLAN
3/4" = 1'-0"



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

STAIR NOTES:

1. CONTRACTOR TO FIELD VERIFY OVERALL REQUIRED STAIR HEIGHT FOR FINAL CALCULATION OF STAIR RISE AND RUN.
2. RISERS TO BE EQUAL HEIGHT AT 7" MAX.
3. CONCRETE PAD UNDER STAIR TO TIE IN TO EXISTING SIDEWALKS WHERE APPLICABLE. WHERE NO EXISTING SIDEWALK EXISTS, THE NEW PAD SHOULD EXTEND A MINIMUM OF 3'-0" PAST THE BOTTOM OF THE STAIR.
4. ALL WELDS TO BE GROUND SMOOTH AND MADE READY FOR FIELD PAINTING.

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REGISTERED ARCHITECTS — FENNELL PURIFOY — No. LL-2 — ARKANSAS

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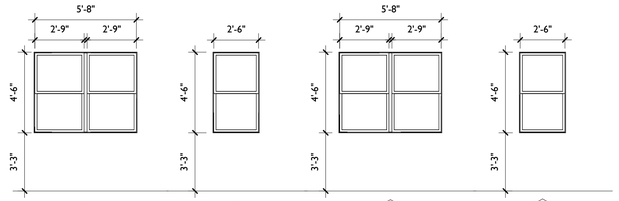
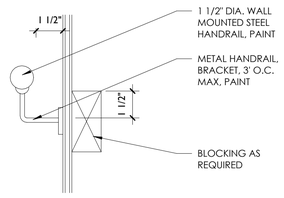


WINDOW TYPES

1/4" = 1'-0"

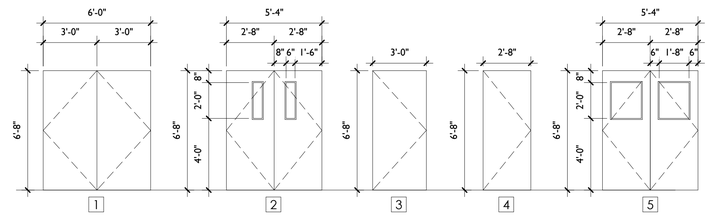
WINDOW NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL WINDOW DIMENSIONS AND SILL HEIGHTS PRIOR TO RELEASING THE ORDER.
2. CONTRACTOR TO REMOVE WINDOWS CAREFULLY WITHOUT DAMAGING EXISTING METAL SIDING. REPLACE J TRIM AT WINDOW PERIMETER AS NEEDED FOR A FINISHED APPEARANCE.
3. WINDOWS IN ROOMS 103 AND 106 TO HAVE OBSCURED GLASS. WINDOW TYPE A1 IS THE SAME AS TYPE A BUT WITH OBSCURED GLASS. WINDOW TYPE B1 IS THE SAME AS TYPE B BUT WITH OBSCURED GLASS.



1 RAIL DETAIL

3" = 1'-0"

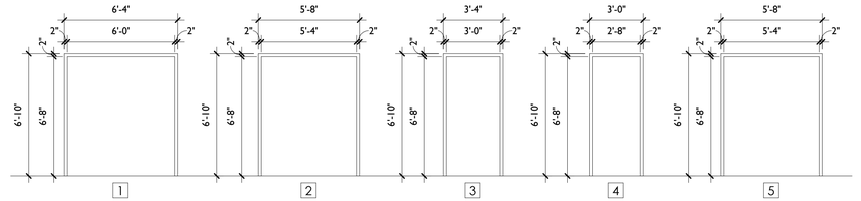


DOOR TYPES

1/4" = 1'-0"

DOOR NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL DOOR DIMENSIONS PRIOR TO RELEASING THE ORDER.



FRAME TYPES

1/4" = 1'-0"

DOOR SCHEDULE

MARK	DOOR TYPE	FRAME TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	MATERIAL	FRAME MATERIAL	THRESHOLD
100	4	4	2' - 8"	6' - 8"	0' - 1 3/4"	WOOD	PREFABRICATED METAL	TRANSITION STRIP BETWEEN RUBBER TILE & LVT
101a	2	2	5' - 4"	6' - 8"	0' - 1 3/4"	HOLLOW METAL, PAINT	HOLLOW METAL, PAINT	NEW METAL THRESHOLD
101b	2	2	5' - 4"	6' - 8"	0' - 1 3/4"	HOLLOW METAL, PAINT	HOLLOW METAL, PAINT	NEW METAL THRESHOLD
102a	2	2	5' - 4"	6' - 8"	0' - 1 3/4"	HOLLOW METAL, PAINT	HOLLOW METAL, PAINT	NEW METAL THRESHOLD
102b	5	5	2' - 8"	6' - 8"	0' - 1 3/4"	WOOD	PREFABRICATED METAL	-
103	3	3	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	PREFABRICATED METAL	TRANSITION STRIP BETWEEN LVT & VCT
104	4	4	2' - 8"	6' - 8"	0' - 1 3/4"	WOOD	PREFABRICATED METAL	-
105	1	1	6' - 0"	6' - 8"	0' - 1 3/4"	HOLLOW METAL, PAINT	HOLLOW METAL, PAINT	NEW METAL THRESHOLD
106	3	3	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	PREFABRICATED METAL	TRANSITION STRIP BETWEEN LVT & VCT
201	4	4	2' - 8"	6' - 8"	0' - 1 3/4"	WOOD	PREFABRICATED METAL	TRANSITION STRIP BETWEEN RUBBER TILE & LVT

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STAIR DETAILS/SCHEDULES
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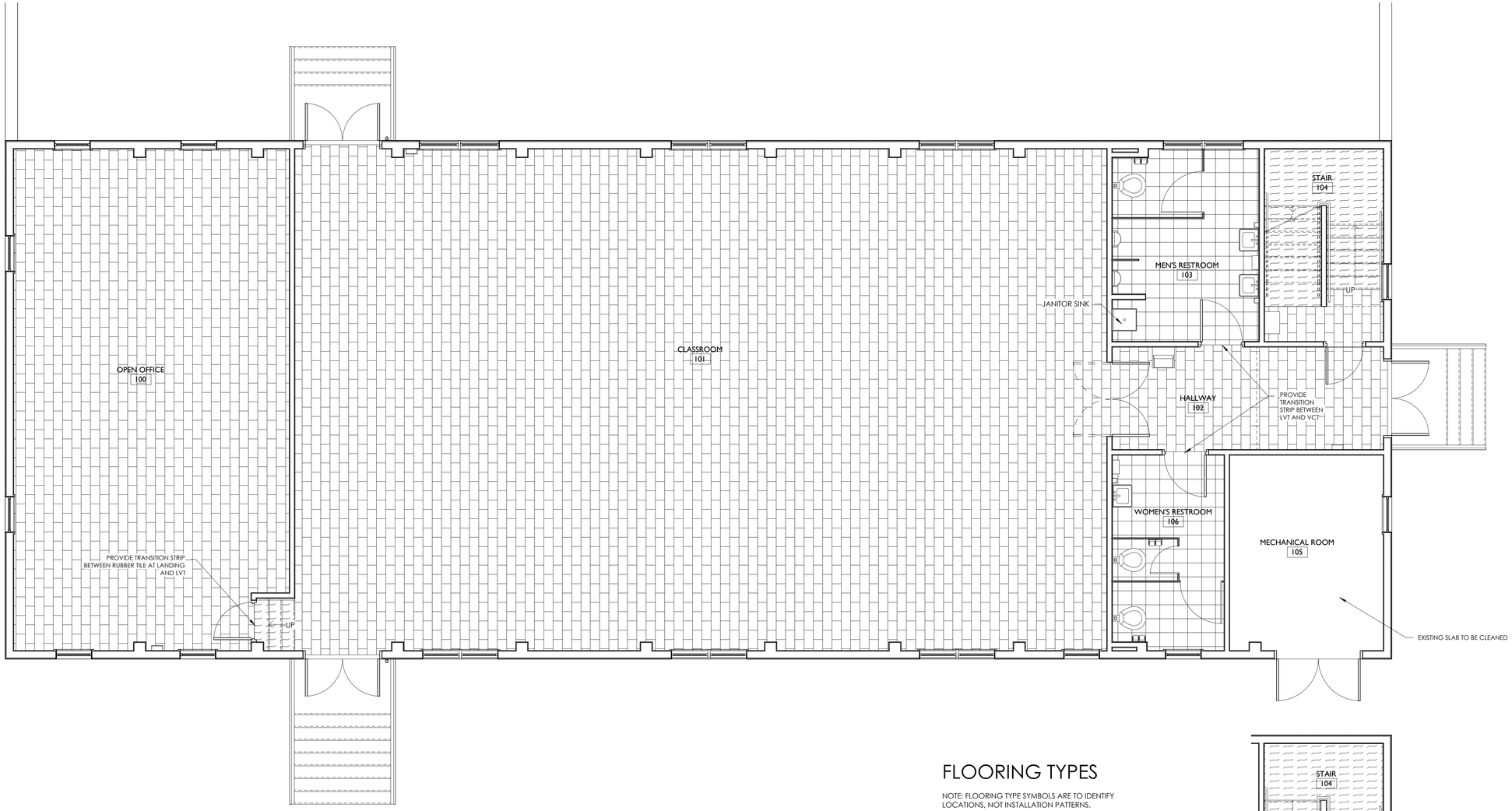


1 FIRST FLOOR FINISH PLAN

1/4" = 1'-0"

FINISH SCHEDULE						
#	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
100	OPEN OFFICE	LVT-1	RESILIENT BASE	GYPSUM BOARD, PAINT	ACT-1	
101	CLASSROOM	LVT-1	RESILIENT BASE	GYPSUM BOARD, PAINT	ACT-1	RUBBER TREADS AND RISERS AT STAIR
102	HALLWAY	LVT-1	RESILIENT BASE	GYPSUM BOARD, PAINT	ACT-1; GYP-1	
103	MEN'S RESTROOM	VCT-1	RESILIENT BASE	FRP PANELS OVER GYPSUM BOARD	ACT-1	
104	STAIR	RUBBER TILES TREADS/RISERS	RESILIENT BASE	GYPSUM BOARD, PAINT	GYP-1	MATCHING RUBBER TILES ON LANDING
105	MECHANICAL ROOM	CONCRETE	-	GYPSUM BOARD, PAINT	GYP-1	
106	WOMEN'S RESTROOM	VCT-1	RESILIENT BASE	FRP PANELS OVER GYPSUM BOARD	ACT-1	
201	DATA ROOM	LVT-1	RESILIENT BASE	GYPSUM BOARD, PAINT	GYP-1	CLEAN AND PREP CONCRETE SLAB TO RECEIVE NEW LVT FLOORING

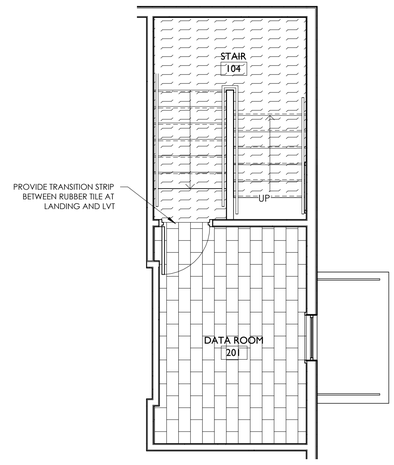
FLOORING TYPES

NOTE: FLOORING TYPE SYMBOLS ARE TO IDENTIFY LOCATIONS, NOT INSTALLATION PATTERNS.

LVT - 1

VCT - 1

RUBBER



2 SECOND FLOOR FINISH PLAN

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FINISH PLANS & SCHEDULE

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HVAC LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION
AHU	AIR HANDLING UNIT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
D	DRAIN
DB	DRY BULB TEMPERATURE
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE OF THE COIL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FLR	FLOOR
FO	FLAT OVAL
FPM	FEET PER MINUTE (VELOCITY)
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE OF THE COIL
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MIN	MINIMUM
MHP	MOTOR HORSEPOWER
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	REVOLUTION PER MINUTE
RTU	ROOF TOP (AIR CONDITIONING) UNIT
SA	SUPPLY AIR
SP	STATIC PRESSURE
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME
WB	WET BULB TEMPERATURE
XFR	TRANSFER AIR
'	FEET
"	INCHES
ø	ROUND DUCT
Φ	OVAL DUCT

DETAIL/SECTION NUMBER

2 / M1.1

DETAIL/SECTION DESIGNATION

SHEET NUMBER

T VAV-2 S — THERMOSTAT OR SENSOR. (SUBSCRIPT DESIGNATES CONTROLLED EQUIPMENT)

2 — KEYED NOTE

ABBREVIATION OR SYMBOL	DESCRIPTION
	CEILING SUPPLY DIFFUSER
	CEILING RETURN/EXHAUST GRILLE
	GRILLE OR REGISTER ON BOTTOM OF DUCTWORK
18/12 SA	SIDEWALL SUPPLY (RETURN SIMILAR)
18/12	RECTANGULAR DUCT WITH DUCT SIZE TAG
20ø	ROUND DUCT WITH DUCT SIZE TAG
20/14Φ	OVAL DUCT WITH DUCT SIZE TAG
24/24 SA	SUPPLY DUCT UP
24/24 SA	SUPPLY DUCT DOWN
24/24 RA	RETURN DUCT UP
24/24 RA	RETURN DUCT DOWN
24/24 EA	EXHAUST DUCT UP
24/24 EA	EXHAUST DUCT DOWN
18/18Φ 24/12	RECTANGULAR/OVAL TRANSITION
18ø 24/12	RECTANGULAR/ROUND TRANSITION
	FLEXIBLE DUCT CONNECTION
F (1) M (3) S (2) C (4)	(1) FIRE DAMPER (2) SMOKE DAMPER (3) MOTORIZED DAMPER (4) CONTROL DAMPER
(1) SD (2)	(1) BALANCING DAMPER (2) SMOKE DETECTOR
250	BALANCING DAMPER, SET TO INDICATED CFM

ABBREVIATION OR SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE REMOVED
	NEW DUCT
	EXISTING DUCT TO REMAIN
	DEMOLISH EXISTING DUCT BACK TO POINT.
2	CONNECT TO EXISTING DUCT.

C/350 — AIR DEVICE "MARK" — AIRFLOW CFM

AIR DEVICE DESIGNATION

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

MECHANICAL GENERAL NOTES:

1. ALL MECHANICAL WORK SHALL COMPLY WITH ALL LOCAL CODES, DRAWINGS, SPECIFICATIONS, AND AUTHORITIES HAVING JURISDICTION. IF DISCREPANCIES ARE FOUND, THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETE AND WORK IS ACCEPTED.
2. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
4. PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
5. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIED REFERENCE PRODUCTS. THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
6. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
7. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT.
8. INFORMATION AND COMPONENTS ON DETAILS OR IN SPECIFICATIONS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
9. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
10. EXACT LOCATIONS OF ALL EQUIPMENT, ROOF CURBS, DUCTS, DIFFUSERS, AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
11. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS. COORDINATE PLACEMENT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL AND STRUCTURAL TRADES.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COMPLETE INFORMATION PRIOR TO BID.
13. ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON ARCHITECTURAL SHEETS. SEAL AROUND ALL PENETRATIONS THROUGH UL RATED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
14. NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, OR OTHER SYSTEMS SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
15. SPECIAL CARE SHALL BE TAKEN ON ROOFS TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF ROOF.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS AIR AND WATER TIGHT.
17. CLOSELY COORDINATE FINAL LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES.
18. CONTRACTOR SHALL VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO DUCT, PIPE OR EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING EQUIPMENT, STRUCTURE, FIRE PROTECTION AND ELECTRICAL IN THE SPACE.
19. MAINTAIN THE SECURITY OF THE BUILDING AT ALL TIMES.
20. CORE DRILL ALL PIPING PENETRATIONS OF CONCRETE WALLS AND FLOORS.
21. ALL HVAC WORK TO BE PER SMACNA AND ALL APPLICABLE CODES. DUCT SIZES REPRESENT FREE AREA.
22. ALL LOW PRESSURE DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE OFFSET WITH TWO - 45 DEGREE, 1.5 RADIUS ELBOWS UNLESS OTHERWISE NOTED.
23. PROVIDE ACCESS DOORS IN WALLS, FLOORS, OR CEILINGS FOR ACCESS TO ALL FIRE DAMPERS, SMOKE DAMPERS, EQUIPMENT, COILS, VALVES, AND BALANCING DAMPERS. ACCESS DOORS ARE NOT REQUIRED WHERE DEVICES ARE DIRECTLY ACCESSIBLE THROUGH AIR DEVICES.
24. PROVIDE FIRE, SMOKE, AND COMBINATION FIRE AND SMOKE DAMPERS IN ALL DUCT PENETRATIONS OF RATED WALLS ACCORDING TO THE FOLLOWING SCHEDULE: 1 HOUR FIRE WALL - PROVIDE FIRE DAMPER IN ALL DUCTS WITH FREE AREA GREATER THAN 100 SQUARE INCHES; 2 HOUR FIRE WALL - PROVIDE FIRE DAMPER; 2 HOUR SMOKE WALL - PROVIDE SMOKE DAMPER; 2 HOUR FIRE AND SMOKE WALL - PROVIDE COMBINATION FIRE AND SMOKE DAMPER.
25. DUCT FITTINGS ARE AS FOLLOWS: 1) FLEX DUCT IS ONLY PERMITTED IN LINEAR DUCT RUNS. FLEX DUCT SHALL NOT BE USED WHERE DUCTWORK CHANGES DIRECTION. ALL ELBOWS SHALL BE HARD DUCTED. 2) ALL 90 DEGREE ELBOWS TO HAVE R/D = 1.5, UNLESS OTHERWISE NOTED. 3) ALL MITERED RECTANGULAR ELBOWS GREATER THAN 90 DEGREES NOTED ARE TO HAVE TURNING VANES. 4) SIDE TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER STODB03. 5) DAMPERS SHALL BE EQUAL TO FLEXMASTER SLDB03.
26. PROVIDE BRANCH TAKEOFF AND DAMPER AT EACH CONNECTION OF ROUND OR RECTANGULAR BRANCH DUCTS TO A RECTANGULAR DUCT, SEE DETAILS.
27. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF FIRE AND SMOKE WALLS.
28. MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS, EXHAUST FAN DISCHARGE, AND FLUES. MAINTAIN MINIMUM CLEAR DISTANCE OF 5'0" BETWEEN PARAPET WALL AND ALL ROOF MOUNTED MECHANICAL EQUIPMENT.
29. ALL ROOF MOUNTED EQUIPMENT SHALL BE PROVIDED WITH MANUFACTURER'S FABRICATED CURBS WHICH FACILITATE LEVEL MOUNTING OF THE EQUIPMENT (I.E. FACTORY FABRICATED TO COMPENSATE FOR ROOF SLOPE). OBTAIN ROOF SLOPES AND DIRECTION OF SLOPE FROM ARCHITECTURAL AND/OR STRUCTURAL PLANS. ALL ROOF CURBS SHALL BE A MINIMUM OF 8" HIGH. SHIMMING OF CURBS IS NOT ACCEPTABLE.
30. ROOF PENETRATIONS AND FLASHING OR SEALING MUST COMPLY WITH ROOF MANUFACTURER'S RECOMMENDATIONS AND WARRANTY REQUIREMENTS.
31. ALL DUCTS SHALL BE MOUNTED AS HIGH AS POSSIBLE AGAINST BOTTOM OF STRUCTURE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING SYSTEMS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING SYSTEMS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
32. CONTRACTOR SHALL FIELD VERIFY ALL PIPE ROUTING AND ADJUST ELEVATIONS AS REQUIRED TO AVOID CONFLICTS. FINAL PLACEMENT OF PIPING SHALL BE DETERMINED BY FIELD MEASUREMENT AND VERIFICATION. ELEVATIONS ARE REFERENCED TO PIPE CENTERLINE UNLESS OTHERWISE NOTED.
33. DUCTWORK SHALL CONFORM TO THE FOLLOWING PRESSURE CLASSES: SUPPLY: 2" SP; RETURN/RELIEF/OUTSIDE AIR/EXHAUST: 2" SP. ALL DUCTWORK IS REQUIRED TO BE TESTED IN ACCORDANCE WITH THE SPECIFICATIONS.
34. ALL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
35. CONTRACTOR SHALL VERIFY CLOSELY AT SITE TRANSPORTATION OF NEW HVAC EQUIPMENT INTO MECHANICAL AREAS BEFORE BIDDING. PROVIDE COMPLETE DISASSEMBLY AND RE-ASSEMBLY OF NEW EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
36. PROVIDE FLEXIBLE CONNECTIONS AND TRANSITIONS ON DUCT INLET AND OUTLET CONNECTIONS TO ALL EQUIPMENT WITH MOVING PARTS.
37. DUCTWORK VISIBLE THROUGH RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK TO REDUCE VISIBILITY.
38. EXPOSED DUCTWORK AND PIPING SHALL BE FURNISHED SUITABLE FOR PAINTING, AND SHALL BE PAINTED AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
39. NOT ALL REQUIRED PIPING, VALVES, OR FITTINGS ARE SHOWN ON DRAWINGS FOR CLARITY. COORDINATE PLAN DETAILS WITH SPECIFICATIONS, SCHEMATICS, FLOW DIAGRAMS, AND OTHER DETAILS TO PROVIDE COMPLETE PIPING SYSTEMS.
40. COORDINATE WORK CLOSELY WITH CONTROL REQUIREMENTS. PROVIDE ALL NECESSARY DUCT TAPS, PIPE TAPS, WELLS, AND OTHER APPURTENANCES REQUIRED BY CONTROL SYSTEM. PROVIDE SPARE PIPE WELL ADJACENT TO EACH TEMPERATURE SENSOR IN PIPING.
41. REFER TO ARCHITECTURAL PLANS FOR CEILING GRILLE AND DIFFUSER LOCATIONS, FOR CEILING TYPE, AND FOR MOUNTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL AIR DEVICES WITH MOUNTING SYSTEM DESIGNED FOR MOUNTING SURFACE TYPE.
42. COORDINATE FINAL PLACEMENT OF ALL HVAC CONTROLS WITH WALL-MOUNTED DEVICES AND OWNER'S REPRESENTATIVE. MOUNT PER A.D.A. REQUIREMENTS. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
43. INSTALL SMOKE DETECTOR IN SUPPLY AND RETURN DUCT OF ALL AIR HANDLERS SUPPLYING GREATER THAN 2,000 CFM.
44. PROVIDE CONCRETE PADS FOR ALL GROUND MOUNTED EQUIPMENT.
45. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
46. CONTRACTOR SHALL PATCH ALL WALLS, FLOORS, AND CEILINGS TO MATCH NEW FOR ALL OPENINGS CREATED BY INSTALLATION OF EQUIPMENT AND HVAC SERVICE PENETRATIONS.
47. ALL SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSULATED EXCEPT WHERE LINER, DOUBLE WALL LINED DUCT, OR FABRIC DUCT IS INDICATED. INSULATE TOPS OF SUPPLY AIR DIFFUSERS WITH 2" THICK FIBERGLASS DUCT WRAP. DO NOT INSULATE EXHAUST DUCTWORK EXCEPT FOR FIRE WRAP ON KITCHEN HOOD EXHAUST.
48. REFER TO SPECIFICATIONS FOR INSULATION AND R-VALUES FOR MECHANICAL PIPING AND DUCTWORK INSULATION.
49. SEE ARCHITECTURAL PLANS FOR ROOF PENETRATION DETAILS.
50. ALL HVAC COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, HVAC FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
51. ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
52. PLENUM CABLING SHALL HAVE ITS OWN SYSTEM OF SUPPORT AND BE STRUCTURALLY SOUND. ATTACHMENT TO CEILING GRID AND HANGER WIRES IS PROHIBITED. WHERE NOT INSTALLED IN CONDUIT, CABLING SHALL BE RUN IN CABLE HOOKS. CABLING LAYING ON CEILING TILES IS PROHIBITED.
53. CONTRACTOR SHALL PROVIDE FURR DOWN AND ANY OTHER CEILING MODIFICATIONS NEEDED TO ACCOMMODATE DUCTWORK PENETRATIONS.
54. PROVIDE ALL HVAC UNITS WITH AN EXTRA SET OF MANUFACTURER'S RECOMMENDED FILTERS AFTER PROJECT COMPLETION.

RENOVATION GENERAL NOTES:

1. THE EQUIPMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE FINAL LOCATIONS SHALL BE ESTABLISHED IN THE FIELD TO BEST FIT THE AVAILABLE SPACE. COORDINATE WITH STRUCTURAL DRAWINGS.
2. INSPECT THE EXISTING SYSTEM; ANY EXISTING EQUIPMENT, DUCTS, OR PIPING FOUND TO BE DAMAGED OR NON-OPERABLE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
3. PHASE DEMOLITION AND RENOVATION WORK TO MAINTAIN EXISTING BUILDING AS REQUIRED BY BUILDING OWNER/OCCUPANTS. PROVIDE TEMPORARY SERVICES AS REQUIRED.
4. VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO DUCT, PIPE, OR EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING SYSTEMS IN THE SPACE.
5. USE EXISTING PIPING SYSTEM VALVES WHERE POSSIBLE TO ISOLATE SYSTEMS AND TO CAP EXISTING PIPING. REPLACE EXISTING VALVES WHERE NECESSARY WHEN EXISTING VALVES WILL NOT HOLD.
6. FIREPROOFING ON EXISTING STRUCTURE SHALL BE REPLACED OR REPAIRED WHERE DISTURBED FROM THE INSTALLATION OF MECHANICAL SYSTEMS.
7. REPLACE AND/OR PATCH TO MATCH ANY EXISTING DUCT OR PIPING INSULATION THAT IS TO REMAIN EXISTING AND IS DAMAGED DURING CONSTRUCTION.
8. WHEN CONNECTING TO EXISTING PIPING STUB-OUTS, INSULATE EXISTING STUB-OUT PIPING INCLUDING VALVE BODIES.
9. INSPECT THE EXISTING DUCTWORK WITHIN PROJECT BOUNDARIES FOR POSSIBLE DAMAGE OR CONDENSATION. REPAIR AND RE-INSULATE.
10. WORK REQUIRED IN THE AREAS OUTSIDE OF THE FLOOR AREA FOR PLUMBING OR HVAC WORK SHALL BE SCHEDULED WITH THE OWNER 48 HOURS IN ADVANCE. COORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS WITH OWNER'S REPRESENTATIVE.
11. ANY DAMAGE TO THE EXISTING BUILDING, STRUCTURE, FINISHES, OR ARCHITECTURAL FEATURES CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
12. EXISTING FIRE SPRINKLER SYSTEM SHALL BE MODIFIED FOR NEW CEILING AND ROOM LAYOUTS. COORDINATE WITH THE SPRINKLER CONTRACTOR FOR SPACE AND LOCATION REQUIREMENTS.
13. UTILITY DOWN-TIME SHALL BE KEPT TO A MINIMUM AND SCHEDULED THREE DAYS IN ADVANCE.

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 20514 — DAVID ALEXANDER TRULOVE — 6-1-26

CMTC BUILDING 1486 RENOVATIONS
1486, 4TH AVE., FORT CHAFFEE, AR 72905

REVISIONS:

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MECHANICAL NOTES AND LEGENDS

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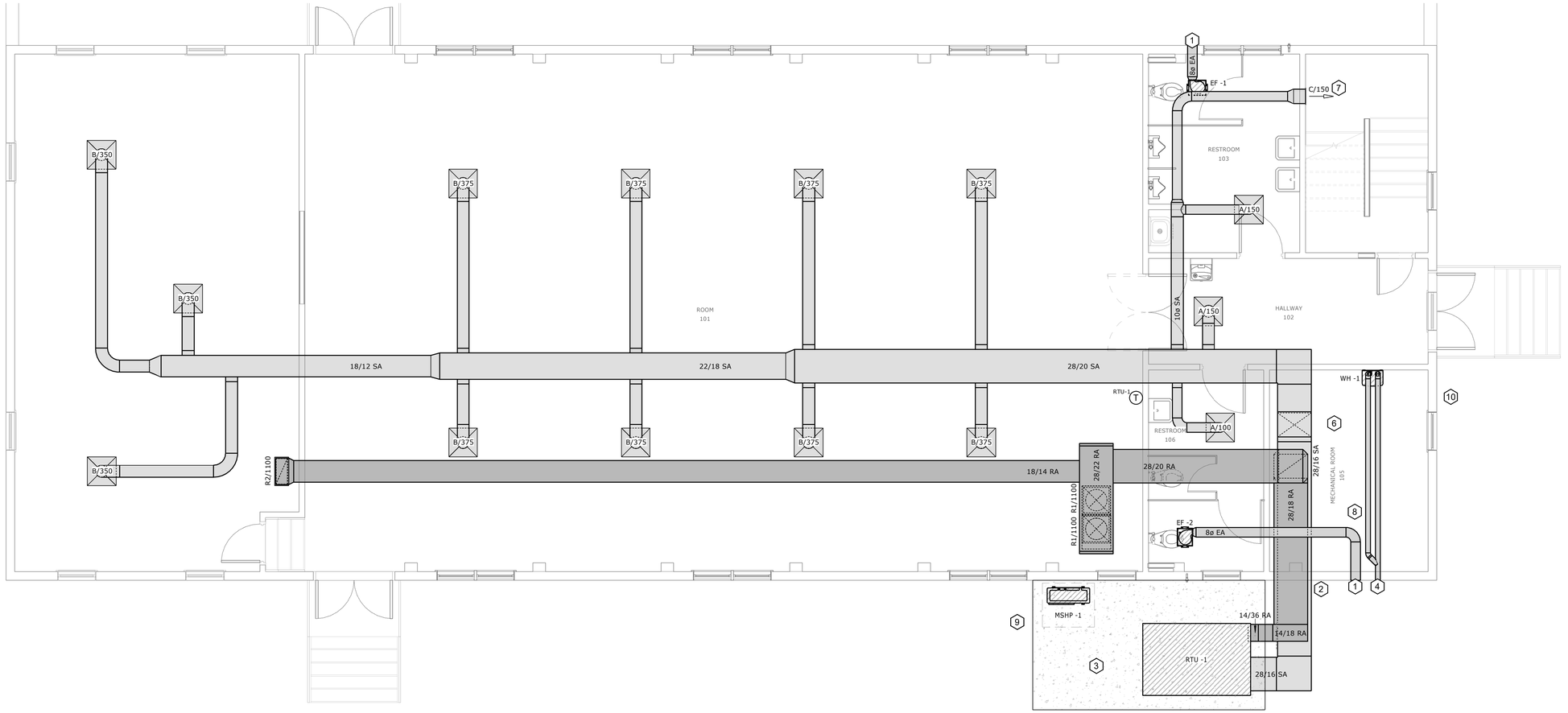


1 HVAC PLAN

1/4" = 1'-0"

GENERAL NOTES

1. ALL THERMOSTATS SHALL BE PROVIDED AS 7-DAY PROGRAMMABLE, HARD-WIRED, WALL-MOUNTED OPTIONS. MOUNT THERMOSTATS PER ADA REQUIREMENTS, APPROXIMATELY 44" AFF. ALIGN TOP OF THERMOSTAT WITH TOP OF LIGHT SWITCH FACE PLATE WHERE THERMOSTAT IS MOUNTED NEXT TO LIGHT SWITCH IN ROOM.
2. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, BRANCH MAIN, AND BEFORE LAST AIR TERMINAL AT END OF DUCT MAIN.
3. ROUTE ALL HVAC CONDENSATE TO NEAREST LANDSCAPING OR STORM DRAIN. HVAC CONDENSATE PIPE SHALL BE SCH.40 PVC AND BE SLOPED 1/8" PER FOOT, MINIMUM.

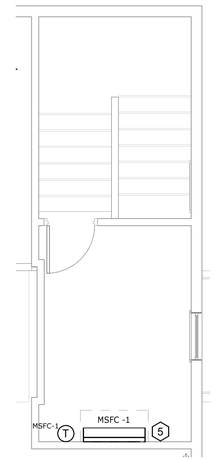
KEYED NOTES

1. PROVIDE WALL CAP AT EXHAUST VENT TERMINATION. ROUTE APPROXIMATELY 10'-0" AFF. REFER TO MECHANICAL DETAILS FOR FULL REQUIREMENTS.
2. TRANSITION DUCT AS REQUIRED THROUGH EXISTING MECHANICAL SPACE TO ABOVE CEILING OF CLASSROOM SPACE.
3. PROVIDE NEW 6" REINFOCED CONCRETE SERVICE PAD FOR MECHANICAL EQUIPMENT. PAD SHALL EXTEND A MINIMUM OF 1'-0" BEYOND EQUIPMENT FOOTPRINTS AND TO BUILDING FOOTPRINT. PAD SHALL BE REINFORCED, 4,000 PSI MINIMUM, AND SLOPED 1/8" AWAY FROM BUILDING TO SHED WATER.
4. PROVIDE WATER HEATER CONCENTRIC VENT THROUGH SIDE-WALL. MOUNT APPROXIMATELY 10'-0" AFF.
5. MOUNT FAN COIL ~7'-0" AFF. ROUTE CONDENSATE THROUGH WALL INTO MECHANICAL ROOM BELOW TO CONDENSATE PIT.
6. REMOVE, PRESERVE, AND REINSTALL EXISTING UNIT HEATER IN MECHANICAL ROOM.
7. MOUNT SIDE-WALL DIFFUSER APPROXIMATELY 14'-0" ABOVE FIRST FLOOR LEVEL.
8. ROUTE EXHAUST FAN EXHAUST DUCT AND WATER HEATER COMBUSTION AIR/EXHAUST DUCT AS HIGH AS POSSIBLE IN ROOM.
9. PROVIDE CONDENSATE PIT TO SERVE RTU-1 CONDENSATE DISCHARGE.
10. PROVIDE CONDENSATE PIT TO SERVE MSFC-1 CONDENSATE DISCHARGE.

HVAC -- BRANCH DUCT CONNECTION SIZES

***Note: For Rectangular Ducts, shortest dimension reflects depth...*

DESIGNATION	INLET Ø	INLET HT.	INLET W.
A	8"		
B	10"		
C		6"	12"
R1	18"	22"	22"
R2		10"	22"



2 HVAC PLAN - 2ND FLOOR

1/4" = 1'-0"

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HVAC PLAN
M1.1

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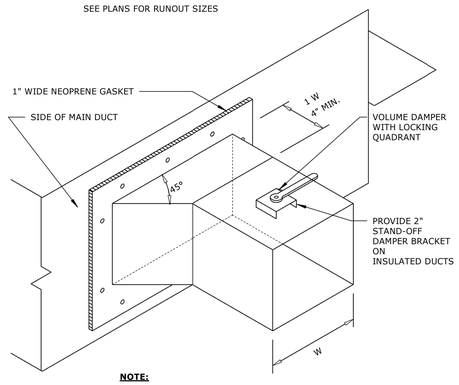
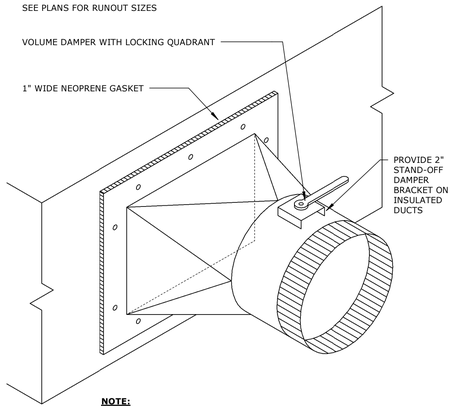


NOTE:

1. DAMPER SHALL BE EQUAL TO RUSKIN MD35.

1 -BRANCH DUCT FITTING-RECTANGULAR

NOT TO SCALE

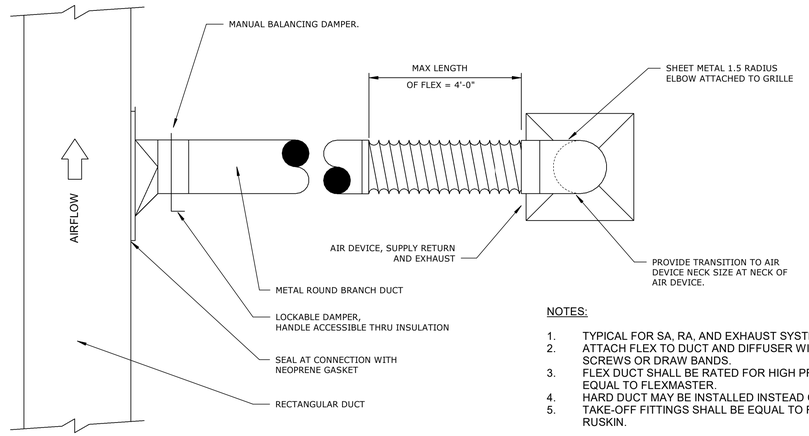


NOTE:

1. SIDE TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER STOD.

2 -BRANCH DUCT FITTING-ROUND

NOT TO SCALE

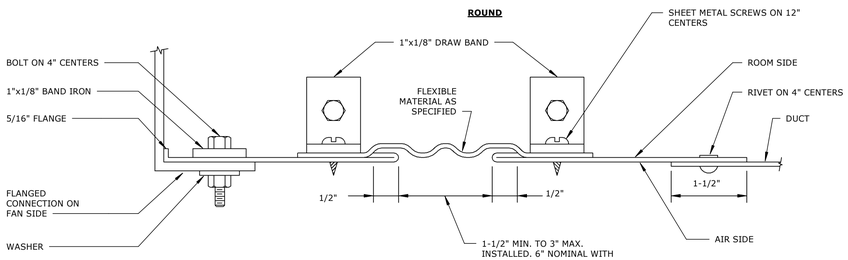


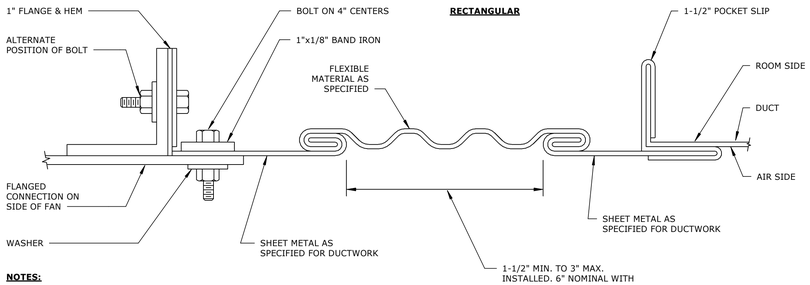
NOTES:

1. TYPICAL FOR SA, RA, AND EXHAUST SYSTEMS.
2. ATTACH FLEX TO DUCT AND DIFFUSER WITH SHEET METAL SCREWS OR DRAW BANDS.
3. FLEX DUCT SHALL BE RATED FOR HIGH PRESSURE AND EQUAL TO FLEXMASTER.
4. HARD DUCT MAY BE INSTALLED INSTEAD OF FLEX DUCT.
5. TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER OR RUSKIN.

3 -BRANCH DUCT TAKE OFF

NOT TO SCALE



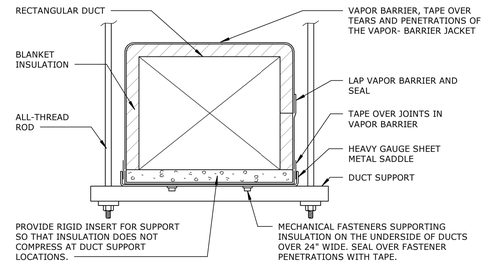


NOTES:

1. FLEXIBLE CONNECTIONS SHALL BE MADE AT ALL SUPPLY AND RETURN CONNECTIONS OF DUCTWORK TO AIR HANDLING UNITS. ALL CONNECTIONS SHALL BE AS PER SMACNA.

4 -FLEXIBLE CONNECTION

NOT TO SCALE



NOTES:

1. PROVIDE SADDLES AT DUCT SUPPORT POINTS.
2. DO NOT TAKE DUCT SUPPORTS OR STRAPS INTO THE INSULATION.
3. PROVIDE INSULATION INSERT SO THAT INSULATION DOES NOT COMPRESS FROM WEIGHT OF DUCT.
4. PROVIDE SEMI-RIGID INSULATION ON ALL DUCTWORK IN MECHANICAL EQUIPMENT ROOMS AND OTHER HIGH ABUSE AREAS.
5. IN AREAS WHERE SPACE LIMITS INSTALLATION OF TRAPEZE SYSTEM SHOWN, LOW PROFILE DUCT SUPPORT SYSTEM MAY BE PERMITTED. SYSTEM TO BE EQUAL TO GRIPPLE. ALL SYSTEMS SHALL BE APPROVED BY SMACNA OR WILL NOT BE PERMITTED.

5 -INSULATION AT DUCT SUPPORT

NOT TO SCALE

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 20514 DAVID ALEXANDER TRULOVE 07-26

CMTC BUILDING 1486 RENOVATIONS
1486, 4TH AVE., FORT CHAFFEE, AR 72905

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MECHANICAL DETAILS I

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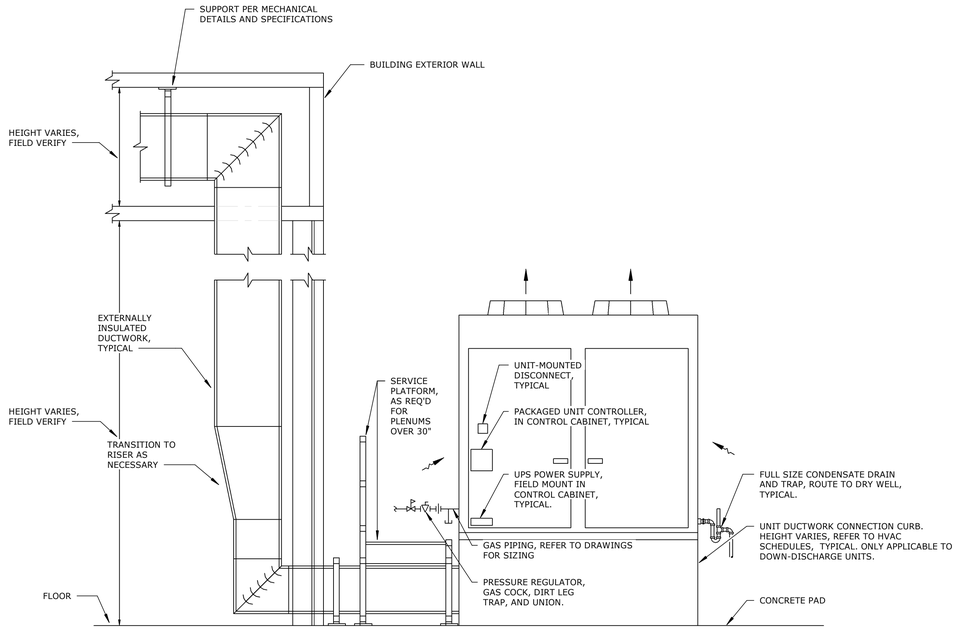
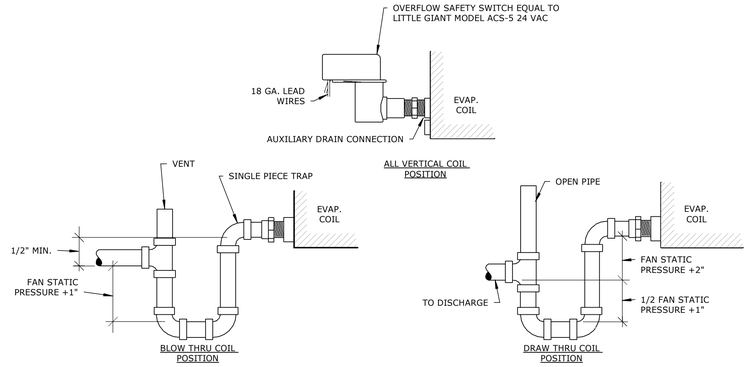


1 TYPICAL PACKAGED AHU

NOT TO SCALE

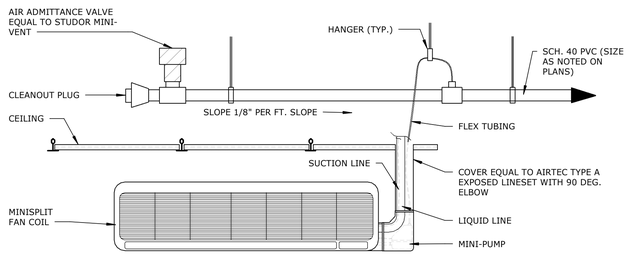


NOTES:

1. RUNNING TRAPS WILL NOT BE ACCEPTED.
2. INSTALL FACTORY FURNISHED TRAP WITH OUTSIDE AIR UNITS.
3. CONDENSATE DISCHARGE LOCATION SHALL MEET REQUIREMENTS OF ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

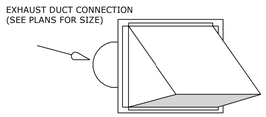
2 -CONDENSATE TRAP

NOT TO SCALE



3 -DUCTLESS WALL MINISPLIT

NOT TO SCALE



NOTES:

1. WALL CAP SHALL BE EQUAL TO GREENHECK MODEL WC.
2. WALL CAP SHALL HAVE INSECT SCREEN AND BACKDRAFT DAMPER.
3. PAINT WALL CAP TO MATCH WALL.
4. MAINTAIN ALL CODE REQUIRED CLEARANCES FROM OUTSIDE AIR INTAKES, DOORS, AND OPERABLE WINDOWS.

4 -WALL CAP

NOT TO SCALE

CMTC BUILDING 1486 RENOVATIONS

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MECHANICAL DETAILS II

M2.2

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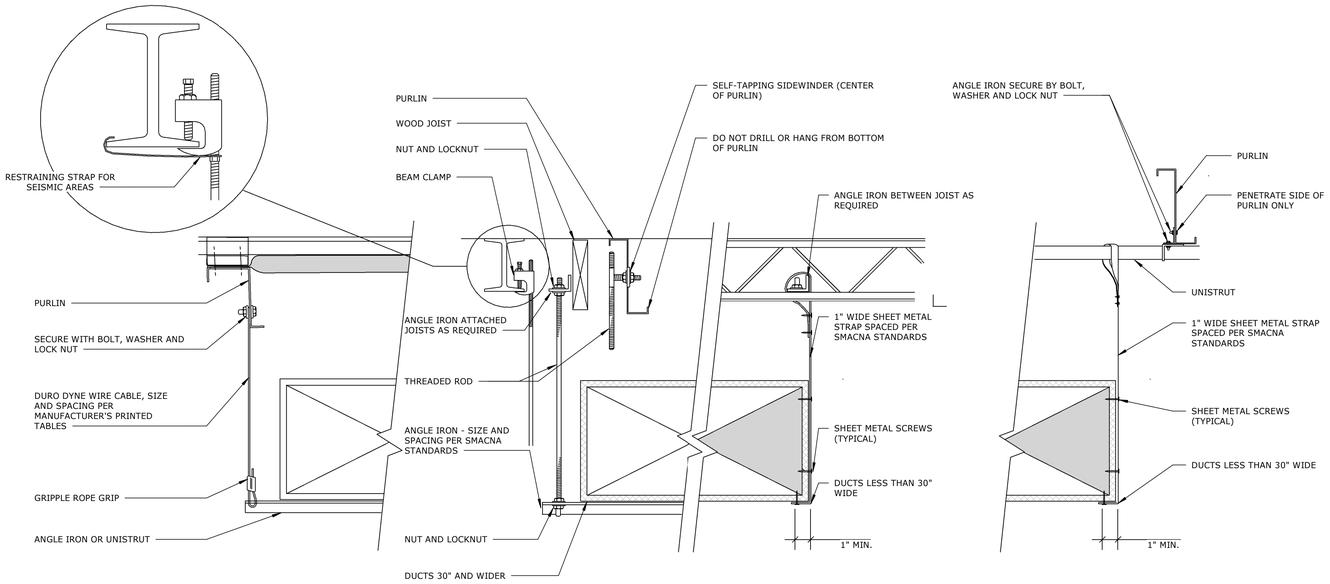

1 DUCT SUPPORT

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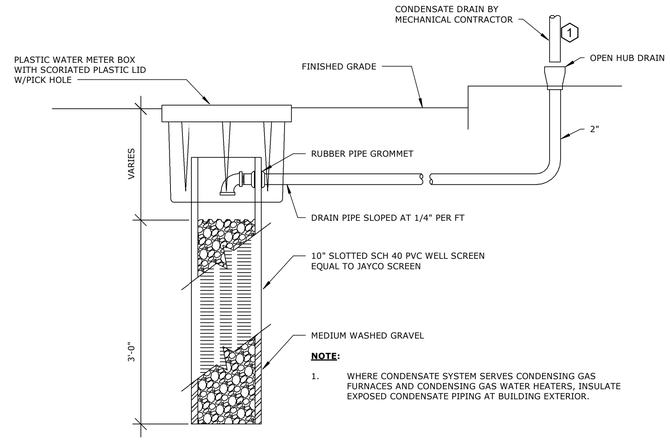

2 CONDENSATE DRAIN / DRY WELL

NOT TO SCALE

CMTC BUILDING 1486 RENOVATIONS

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MECHANICAL DETAILS III

M2.3

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 20514 DAVID ALEXANDER TRULOVE 07-26

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HVAC -- PACKAGED UNIT SCHEDULE

DESIGNATION					AIRFLOWS		SUPPLY FAN	COOLING DATA							HEATING DATA			ELECTRICAL DATA				
											ENTERING		LEAVING									
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	SUPPLY AIR	OUTSIDE AIR (MINIMUM)	EXTERNAL STATIC PRESS.	NOMINAL COOLING	NET TOTAL COOLING	NET SENSIBLE COOLING	DB	WB	DB	WB	TYPE	INPUT	OUPUT	VOLTAGE	PHASE	MCA	MOCP	WEIGHT
RTU	1	SIDE-DISCHARGE PACKAGED UNIT	DAIKIN	DSG1503LH00121C	4,600 CFM	600 CFM	1.25 in-wg	12.5 ton	135,100 Btu/h	109,000 Btu/h	78.6 °F	64.6 °F	57.0 °F	54.8 °F	NAT. GAS	240,000 Btu/h	194,400 Btu/h	208 V	3	63.1 A	80.0 A	1,250 lb

1. PROVIDE WITH 2-STAGE LEAD COMPRESSOR, 2-STAGE NATURAL GAS HEAT, 100% OSA ECONOMIZER WITH DUAL-ENTHALPY CONTROL.
2. PROVIDE WITH LOCAL DISCONNECT, NON-POWERED CONVENIENCE OUTLET, STAINLESS STEEL DRAIN PAN, PHASE AND BROWN-OUT PROTECTION, SURGE PROTECTION DEVICE, HAIL GUARD, OSA INTAKE HOOD WITH BIRD SCREEN.
3. PROVIDE WITH TOOLLESS ACCESS ON CABINET DOORS.
4. PROVIDE WITH STANDARD GROUND-MOUNT CURB.
5. PROVIDE WITH 2" PLEATED MERV 8 FILTERS.
6. UNITS SHALL BE SELECTED AT AMBIENT CONDITIONS OF: 100 F DB AND 77 F WB.
7. UNITS SHALL MEET CURRENT ENERGY CODE MINIMUM EFFICIENCY REQUIREMENTS.
8. ALL UNITS WITH 2,000 CFM SUPPLY AND OVER SHALL BE PROVIDED WITH SA/RA SMOKE DETECTION.
9. EQUIPMENT SHALL UTILIZE R454B OR R32 REFRIGERANT.

HVAC -- MINI-SPLIT FAN COIL SCHEDULE

DESIGNATION									
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	DESIGN SUPPLY AIR (HIGH SPEED)	TOTAL COOLING CAPACITY	TOTAL HEATING CAPACITY	ELECTRICAL DATA		REMARKS
								VOLTAGE	PHASE	
MSFC	1	1.5-TON WALL-MOUNT FAN COIL	DAIKIN	FTKF18BVJU9	600 CFM	18,000 Btu/h	18,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.

1. PROVIDE WITH 7-DAY PROGRAMMABLE, HARD-WIRED THERMOSTAT AND MANUFACTURER'S RECOMMENDED CONDENSATE PUMP.
2. PROVIDE DUCTED UNITS WITH MANUFACTURER'S RECOMMENDED FILTER BOX AND MERV 8 FILTERS. PROVIDE NON-DUCT UNITS WITH INTEGRAL AIR FILTERS PER MANUFACTURER'S SPECIFICATIONS.
3. INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT UNLESS SPECIFICALLY NOTED OTHERWISE.

HVAC -- MINI-SPLIT HEAT PUMP SCHEDULE

DESIGNATION					ELECTRICAL DATA			
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	PHASE	MCA	MOCP
MSHP	1	1.5-TON MINI-SPLIT CONDENSER	DAIKIN	RKF18BVJU9	208 V	1	21.4 A	25.0 A

1. PROVIDE WITH LOW AMBIENT COOLING, HARD-START KIT, HAIL GUARDS, SURGE PROTECTION DEVICE, AND LOCAL DISCONNECT.
2. INDOOR AND OUTDOOR UNITS SHALL BE PROVIDED FROM SAME MANUFACTURER.
3. UNITS SHALL BE SELECTED AT AMBIENT CONDITIONS OF: 100 F DB AND 77 F WB.
4. UNITS SHALL MEET CURRENT ENERGY CODE MINIMUM EFFICIENCY REQUIREMENTS.
5. EQUIPMENT SHALL UTILIZE R454B OR R32 REFRIGERANT.

HVAC -- EXHAUST FAN SCHEDULE

DESIGNATION						ELECTRIC MOTOR DATA				
TYPE	MARK	MANUFACTURER	MODEL	EXHAUST	EXTERNAL STATIC	MOTOR WATTS	VOLTAGE	PHASE	DRIVE	REMARKS
EF	1	Loren Cook Company	GC	225 CFM	0.25 in-wg	150 W	120 V	1	DIRECT	INTERLOCK WITH LIGHTS IN ASSOCIATED ROOM.
EF	2	Loren Cook Company	GC	150 CFM	0.25 in-wg	120 W	120 V	1	DIRECT	INTERLOCK WITH LIGHTS IN ASSOCIATED ROOM.

1. PROVIDE WITH SOLID STATE SPEED CONTROLLER, DISCHARGE BACKDRAFT DAMPER, ISOLATOR KIT, DISCONNECT SWITCH.
2. PROVIDE WITH MANUFACTURER'S METAL GRILLE OPTION.
3. EXHAUST FAN SHALL BE SUPPORTED BY STRUCTURE BY MEANS OF ALL THREAD RODS AND MANUFACTURER'S MOUNTING BRACKETS.
4. EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHTS IN ASSOCIATED ROOM.

HVAC -- AIR TERMINAL SCHEDULE

					INLET SIZE			FACE SIZE		MAX. NOISE	OPTIONS				
MARK	MANUFACTURER	MODEL	DESCRIPTION	MAX AIRFLOW	DIAMETER	WIDTH	LENGTH	W	L	CRITERIA	FACE STYLE	FINISH	DAMPER STYLE	MATERIAL	MOUNTING
A	Titus	OMNI AA-08-1-24x24-26	ALUMINUM SQUARE PLAQUE DIFFUSER	350 CFM	8			24"	24"	25	PLAQUE	WHITE	OPPOSED BLADE	ALUMINUM	LAY-IN CEILING
B	Titus	OMNI AA-10-1-24x24-26	ALUMINUM SQUARE PLAQUE DIFFUSER	505 CFM	10			24"	24"	25	PLAQUE	WHITE	OPPOSED BLADE	ALUMINUM	LAY-IN CEILING
C	Titus	272FL	ADJUSTABLE DOUBLE DEFLECTION SIDEWALL SUPPLY GRILLE	305 CFM		12"	6"	14"	8"	25	DOUBLE DEFLECTION BLADES	PER ARCHITECT	OPPOSED BLADE	ALUMINUM	SURFACE MOUNT
R1	Titus	50F	EGGCRATE RETURN GRILLE	2,200 CFM	18	22"	22"	24"	24"	25	EGGCRATE	WHITE	OPPOSED BLADE	ALUMINUM	LAY-IN CEILING
R2	Titus	50F	EGGCRATE RETURN GRILLE	960 CFM		22"	10"	24"	12"	25	EGGCRATE	WHITE	OPPOSED BLADE	ALUMINUM	LAY-IN CEILING

1. PROVIDE WITH MANUFACTURER'S MOUNTING SYSTEM FOR CEILING TYPE ON WHICH DEVICE IS MOUNTED.
2. PROVIDE ALL LAY-IN RETURN GRILLES WITH ROUND NECK ADAPTOR WHERE APPLICABLE.
3. COLOR OPTION SHALL BE INCLUDED IN BID PRICE UNLESS SPECIFICALLY NOTED AS "WHITE" IN SCHEDULE. SUBMIT MANUFACTURER'S COLOR OPTIONS TO ARCHITECT FOR FINAL APPROVAL BEFORE ORDERING DEVICES.

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MECHANICAL SCHEDULES

M3.1

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SYMBOL SCHEDULE

⫴	CONDUIT AND/OR WIRING SYSTEM CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS. NUMBER OF TICKS INDICATED NUMBER OF CONDUCTORS, HOT AND NEUTRAL. NO TICKS INDICATES TWO CONDUCTORS (GROUND WIRES NOT SHOWN)
----------	CONDUIT AND/OR WIRING SYSTEM CONCEALED BELOW FLOOR OR FLOOR SLAB.
——○	CONDUIT TURNING UP
——○	CONDUIT TURNING DOWN
——⫤	CONDUIT STUB. TERMINATE WITH BUSHING OR CAP IF UNDERGROUND.
——≀	BREAK IN CONDUIT, SEE PLAN FOR CONTINUATION.
~~	NON-RIGID RACEWAY SYSTEM
⫴——►	BRANCH CIRCUIT HOMERUN TO PANEL.
(J) [J]	JUNCTION BOX SIZED PER NEC.
S	SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT
S_2	DOUBLE POLE SWITCH, 20 AMP, 120/277 VOLT
S_3	THREE WAY SWITCH, 20 AMP, 120/277 VOLT
S_4	FOUR WAY SWITCH, 20 AMP, 120/277 VOLT
S_D	DIMMER SWITCH, 1200W, 120V. LUTRON NT-SERIES, UNLESS OTHERWISE NOTED. PROVIDE DOUBLE GANG J-BOX FOR DIMMERS 1600W AND ABOVE.
S_M	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH O.L.'S
S_{OS}	SENSOR SWITCH OR EQUAL. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY MANUAL ON-AUTO OFF-30MIN. TIMEOUT.
S_{DOS}	SENSOR SWITCH OR EQUAL. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY CAPABLE OF 0-10V DIMMING. MANUAL ON-AUTO OFF-30MIN. TIMEOUT.
OS PP	SENSOR SWITCH OR EQUAL. CEILING MOUNTED US/PIR OCCUPANCY SENSOR. MANUAL VIA WALL SWITCH AUTO OFF-30MIN. TIMEOUT. 2000 SQFT COVERAGE. PROVIDE POWER PACKS AND LOW VOLTAGE CONNECTIONS AS REQUIRED.
⫤	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT.) MOUNT 18" A.F.F., U.O.N.
⫤	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSPLASH, OR AT 48" A.F.F. U.O.N.
⫤⫤	DOUBLE DUPLEX RECEPTACLE MOUNT AT 18" A.F.F. TWO NEMA 5-20R DUPLEX RECEPTACLES IN A COMMON BOX AND COVER PLATE.
⫤ GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
⫤ EWC	GROUND FAULT NEMA 5-20R DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
⫤ WP	WEATHERPROOF RECEPTACLE. NEMA 5-20R DUPLEX. COVER SHALL BE IN USE TYPE, PER NEC.
⫤	DUPLEX RECEPTACLE MOUNTED IN "F" FOR FLOOR AND "C" FOR CEILING. FLOOR BOX SHALL BE CAST ALUMINUM WITH BRASS COVER.
TV	TELEVISION OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT AT 18" A.F.F. WITH 1" E.C. TO ABOVE ACCESSIBLE CEILING FOR CAT6 AND COAX CABLE.
◁	TELE/DATA OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT AT 18" A.F.F. WITH 1" E.C. TO ABOVE ACCESSIBLE CEILING. CABLE PROVIDED BY OTHERS.
◁ AC	TELE/DATA OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT ABOVE COUNTER BACKSPLASH OR AT HEIGHT NOTED, ALL OTHER THE SAME AS ABOVE.
▽	TELE/DATA OUTLET MOUNTED IN "F" FOR FLOOR AND "C" FOR CEILING. FLOOR BOX SHALL BE CAST ALUMINUM WITH BRASS COVER.
	CEILING OR WALL MOUNTED EXIT SIGN RESPECTIVELY. SOLID SPACES INDICATE FACES. PROVIDE ARROWS AS INDICATED ON PLANS. SEE LIGHT FIXTURE SCHEDULE.
	FUSED / NONFUSED DISCONNECT SWITCH, SIZE AS INDICATED ON DRAWINGS, FUSE PER NAMEPLATE DATA OR AS INDICATED, NEMA 1 ENCLOSURE U.O.N.
	LIGHTING AND/OR POWER PANEL BOARD, SURFACE MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.
	PLYWOOD TELEPHONE OR DATA BACKBOARD. SIZE AS INDICATED ON THE RESPECTIVE RISER DIAGRAM.
FACP	FIRE ALARM CONTROL PANEL
RA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
F P	FIRE ALARM MANUAL STATION, MOUNT 48"A.F.F.
F	FIRE ALARM HORN-STROBE COMBINATION, 15CD U.O.N, MOUNT 80" TO BOTTOM.
F	FIRE ALARM STROBE, 15CD, MOUNT 80" TO BOTTOM.
S SD	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
I	FIRE ALARM HEAT DETECTOR, CEILING MOUNTED.

ABBREVIATIONS

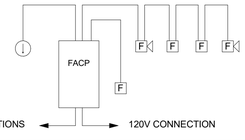
A	AMPERE
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CKT	CIRCUIT
EWC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FPN	FUSE PER NAMEPLATE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G	GROUND
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
#	NUMBER
NTS	NOT TO SCALE
P	POLE
Ø	PHASE
PNL	PANELBOARD
SCWT	SCREW COVER WIRE TROUGH
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
TELE/DATA	TELEPHONE/DATA
TYP	TYPICAL
UG	UNDERGROUND
V	VOLT
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
XFMR	TRANSFORMER
3R	NEMA 3R ENCLOSURE

NOTES:
1. SEE DEVICE MOUNTING ELEVATION FOR MOUNTING HEIGHTS.
2. SEE SPECIFICATIONS FOR DEVICE COLOR AND COVER PLATE STYLE.

FIRE ALARM SEQUENCE

SEQUENCE OF OPERATIONS / ALARM SOURCE AND TYPE	BUILDING SYSTEM OUTPUTS: ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTIVATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	ACTIVATE EXTERNAL HORN STROBE	TRANSMIT F.A. SIGNAL TO CENTRAL COMMUNICATOR	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL COMM.	TRANSMIT TROUBLE SIGNAL TO CENTRAL COMM.	CENTRAL COMM.: SHOW CHANGE OF STATUS ON ANNUNCIATOR	SHOW CHANGE OF STATUS ON CENTRAL PANEL	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
1. MANUAL PULL STATION ALARM	■	■					■	■	■	■			■	■	■		
2. BUILDING SMOKE DETECTOR	■	■					■	■	■	■			■	■	■		
3. DUCT DETECTOR ALARM			■	■			■				■		■	■		■	
4. SMOKE DETECTOR DIRTY/MALFUNCTION - ALL					■	■	■					■	■	■			■
5. SPRINKLER WATERFLOW	■	■					■	■	■	■			■	■	■		
6. SPRINKLER TAMPER			■	■			■				■		■	■		■	
7. FIRE ALARM AC POWER FAILURE					■	■	■					■	■	■			■
8. FIRE ALARM SYSTEM LOW BATTERY					■	■	■					■	■	■			■
9. OPEN CIRCUIT					■	■	■					■	■	■			■
10. GROUND FAULT					■	■	■					■	■	■			■
11. NOTIFICATION APPLIANCE CIRCUIT SHORT					■	■	■					■	■	■			■
12. SYSTEM RESET	(SEE NOTES 1 AND 2 BELOW FOR ACTIONS)																

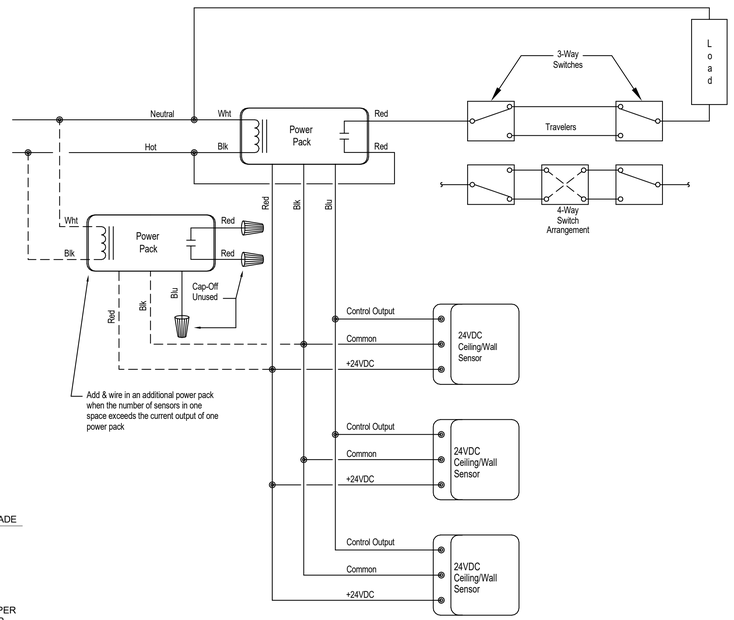
NOTES:
1. 'SYSTEM RESET' SHALL CLEAR ALL DETECTOR AND MANUAL ALARM SIGNALS, STOP AND RESET THE PRE-DISCHARGE COUNTDOWN, AND STOP TRANSMISSION OF ALL ALARM SIGNALS TO THE MAIN PANEL
2. SYSTEM SHALL BE PROGRAMMED SUCH THAT THE SYSTEM CAN BE RESET WHILE THE MANUAL ABORT BUTTON IS ACTIVATED.



OWNER-FURNISHED, CONTRACTOR-INSTALLED FIRE ALARM SYSTEM:

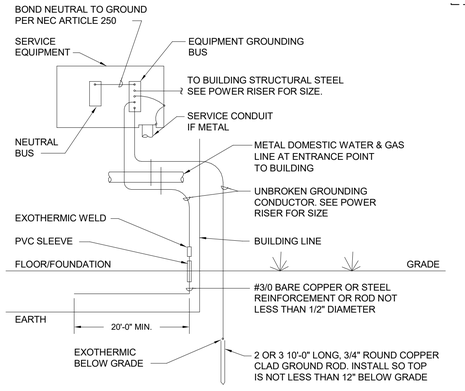
1. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE SYSTEM.
2. FACP SHALL HAVE A MINIMUM 24HR. BATTERY BACKUP.
3. FACP SHALL BE CONNECTED TO A UL APPROVED CENTRAL STATION.
4. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

5 / E0.1 FIRE RISER DIAGRAM
NOT TO SCALE



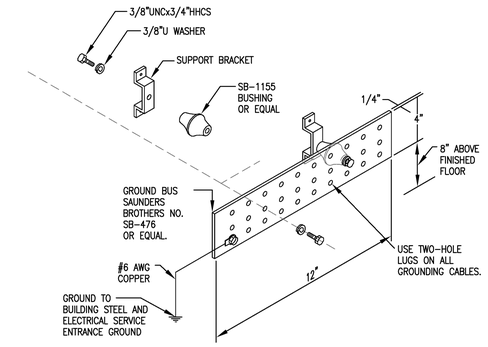
TYPICAL ROOM WITH CEILING SENSORS, 3- & 4-WAY SWITCHED OCCUPANCY SENSING CONFIGURATION
(SWITCHED ON LINE VOLTAGE SIDE)

4 / E0.1 OCCUPANCY SENSOR DETAIL (3 & 4 WAY SWITCHED)
NOT TO SCALE

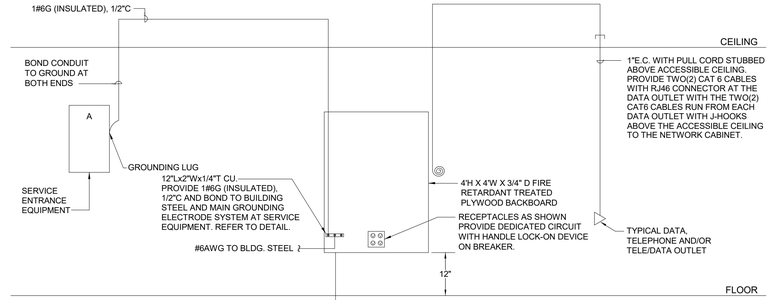


RESISTANCE TO GROUND SHALL BE LESS THAN 25 OHMS

6 / E0.1 SERVICE GROUND DETAIL
NOT TO SCALE

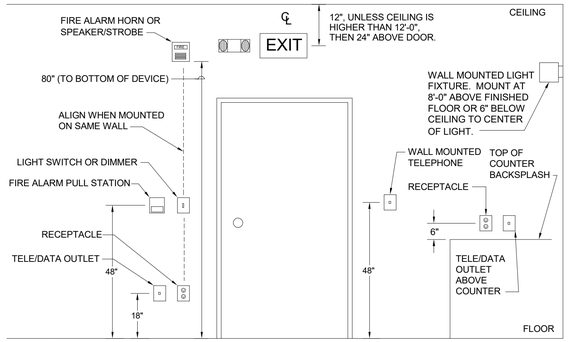


3 / E0.1 DATA AND TELEPHONE GROUNDING BAR
NOT TO SCALE



TELE/DATA RISER DIAGRAM NOTES:
1. FLOOR PLANS INDICATE THE EXACT QUANTITY AND LOCATION OF ALL TELEPHONE AND/OR DATA OUTLETS.
2. E.C. SHALL PROVIDE TWO(2) CAT6 CABLES FROM EACH DATA OUTLET BACK TO THE TELEPHONE BOARD COILED FOR OWNER TERMINATION.
3. OWNER SHALL FURNISH AND INSTALL THE DATA RACK/CABINET. E.C. SHALL COORDINATE EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.

2 / E0.1 TELE/DATA RISER DIAGRAM
NOT TO SCALE



NOTES:
1. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.

1 / E0.1 MOUNTING DEVICE DETAIL
NOT TO SCALE

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ELECTRICAL DETAILS AND SCHEDULES
E0.1

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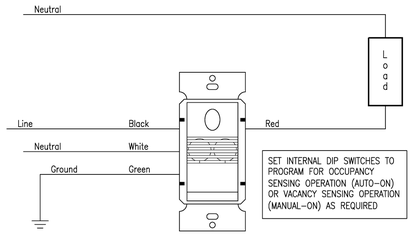
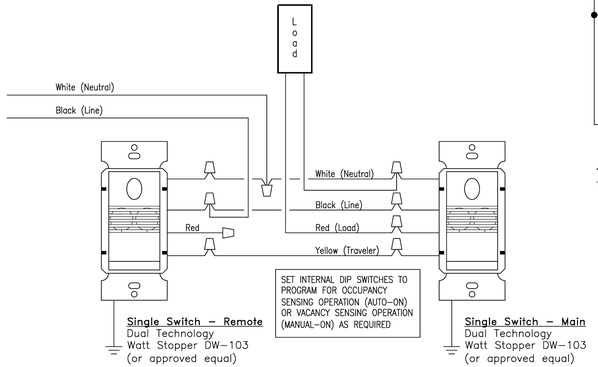


Single Switch
Dual Technology
Watt Stopper #DW-100
(or approved equal)

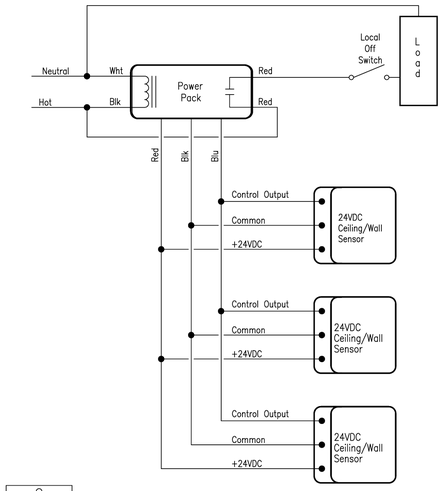
TYPICAL ROOM WITH AUTOMATIC WALL SWITCH



Single Switch – Remote
Dual Technology
Watt Stopper DW-103
(or approved equal)

Single Switch – Main
Dual Technology
Watt Stopper DW-103
(or approved equal)

TYPICAL ROOM WITH 3-WAY AUTOMATIC WALL SWITCHES



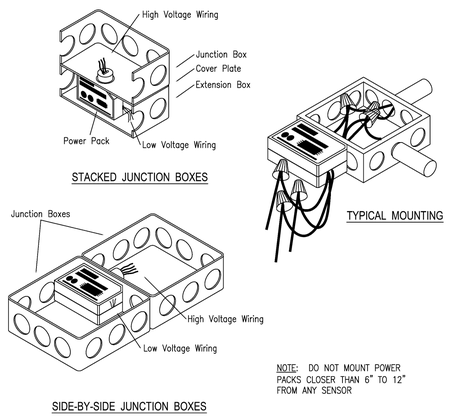
TYPICAL ROOM WITH CEILING SENSORS
OCCUPANCY SENSING CONFIGURATION
(SWITCHED ON LINE VOLTAGE SIDE)

NOTES:

1. MAXIMUM NUMBER OF SENSORS PER POWER PACK DEPENDS UPON SPECIFIC SENSOR MANUFACTURER & MODEL. ACTUAL NUMBER IN EACH ROOM SHALL BE AS SHOWN ON THE LIGHTING PLAN. ADD & WIRE IN AN ADDITIONAL POWER PACK WHEN THE NUMBER OF SENSORS IN ONE SPACE EXCEEDS THE CURRENT OUTPUT OF ONE POWER PACK.
2. ACCEPTED MANUFACTURERS FOR OCCUPANCY SENSORS (CEILING AND WALL SWITCHES), POWER PACKS, AND RELATED ACCESSORIES ARE:

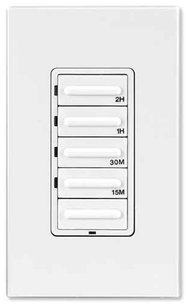
   WATTSTOPPER, HUBBELL BUILDING AUTOMATION (HBA OR H-MOSS), LEVITON AND LUTRON
3. MICROPHONIC TECHNOLOGY WILL NOT BE ACCEPTED FOR CEILING AND WALL OCCUPANCY SENSORS.
4. DIAGRAMS ON THIS SHEET ARE TYPICAL OF WATT-STOPPER – OTHER MANUFACTURERS ARE SIMILAR.

OCCUPANCY SENSOR WIRING DIAGRAMS
SCALE NONE



NOTE: DO NOT MOUNT POWER PACKS CLOSER THAN 6" TO 12" FROM ANY SENSOR

OCCUPANCY SENSOR POWER PACK MOUNTING DETAILS
SCALE NONE



LEVITON #LTB02-1LZ

DIGITAL TIMER SWITCH DETAIL
SCALE NONE

3 / E0.2 OCCUPANCY SENSOR DETAILS
NOT TO SCALE

PANEL A

MECHANICAL ROOM 105

VOLTS **208Y/120V** PHASE **3** WIRE **4** MAIN CAPACITY **225 A**

MOUNTING **SURFACE** NEUTRAL SIZE **100.00%** MAIN CONNECTION **MLO**

A.I.C. RATING **22,000**

Notes:
PANEL SHALL BE PROVIDED WITH A 200kA SURGE PROTECTION DEVICE.

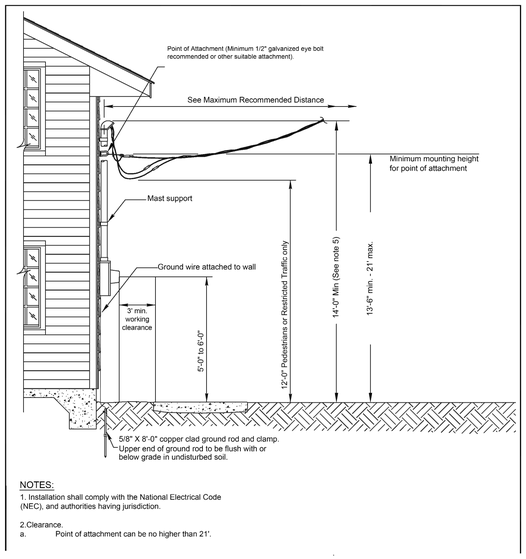
CKT	Circuit Description	Wire Size	AMP	Poles	Frame	A		B		C		Frame	Poles	AMP	Wire Size	Circuit Description	CKT
1	LIGHTING	12	20 A	1	20	1258	360					20	1	20 A	12	RECEPTS	2
3	LIGHTING	12	20 A	1	20			51	720			20	1	20 A	12	RECEPTS	4
5	REC-TELE/DATA (L)	12	20 A	1	20					180	360	20	1	20 A	12	REC-TELE/DATA (L)	6
7	RECEPTS	12	20 A	1	20	360	900					20	1	20 A	12	RECEPTS	8
9	RECEPTS	12	20 A	1	20			540	900			20	1	20 A	12	RECEPTS	10
11	RECEPTS	12	20 A	1	20					720	720	20	1	20 A	12	RECEPTS	12
13	MSHP-1	10	25 A	2	25	1780	6058					80	3	80 A	4	RTU-1	14
15								1780	6058								16
17	REC-WH-1	12	20 A	1	20					180	6058						18
19	REC-EWC (G)	12	20 A	1	20	180	147					20	1	20 A	12	LIGHTING-EXTERIOR	20
21	FACP (L)	12	20 A	1	20			1200	180			20	1	20 A	12	REC-TELE/DATA (L)	22
23	SPARE	--	20 A	1						0	0		1	20 A	--	SPARE	24
25	SPARE	--	20 A	1		0	0						1	20 A	--	SPARE	26
27	SPARE	--	20 A	1				0	0				1	20 A	--	SPARE	28
29	SPARE	--	20 A	1						0	0		1	20 A	--	SPARE	30
31	SPARE	--	20 A	1		0	0						1	20 A	--	SPARE	32
33	SPARE	--	20 A	1				0	0				1	20 A	--	SPARE	34
35	SPARE	--	20 A	1						0	0		1	20 A	--	SPARE	36
37	SPARE	--	20 A	1		0	0						1	20 A	--	SPARE	38
39	SPARE	--	20 A	1				0	0				1	20 A	--	SPARE	40
41	SPARE	--	20 A	1						0	0		1	20 A	--	SPARE	42
					TOTAL LOAD:	10920 VA		11424 VA		8218 VA							
					TOTAL AMPS:	94 A		99 A		68 A							

Legend:

(G) - INDICATES TO PROVIDE A GFCI BREAKER. (L) - INDICATES TO PROVIDE A BREAKER WITH A HANDLE LOCKING DEVICE.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	21734 VA	100.00%	21734 VA		
Lighting	158 VA	100.00%	158 VA	**Total Conn. Load:**	29351 VA
LITES	1298 VA	125.00%	1623 VA	**Total Est. Demand:**	29647 VA
L	0 VA	0.00%	0 VA	**Total Conn.:**	81 A
RCPT2	5580 VA	100.00%	5580 VA	**Total Est. Demand:**	82 A
RCPT	720 VA	100.00%	720 VA		
SPEC	0 VA	0.00%	0 VA		

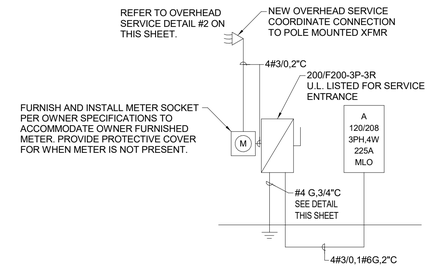
Notes:



NOTES:
1. Installation shall comply with the National Electrical Code (NEC), and authorities having jurisdiction.

2.Clearance.
a. Point of attachment can be no higher than 21'.

2 / E0.2 OVERHEAD SERVICE DETAIL
NOT TO SCALE



1 / E0.2 POWER RISER DIAGRAM
NOT TO SCALE

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STATE OF ARKANSAS
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BRANDON H. RAINWATER, PE

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ELECTRICAL DETAILS AND PANEL SCHEDULE 100% CONSTRUCTION DOCUMENTS

E0.2

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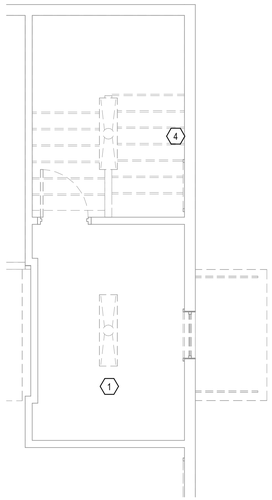
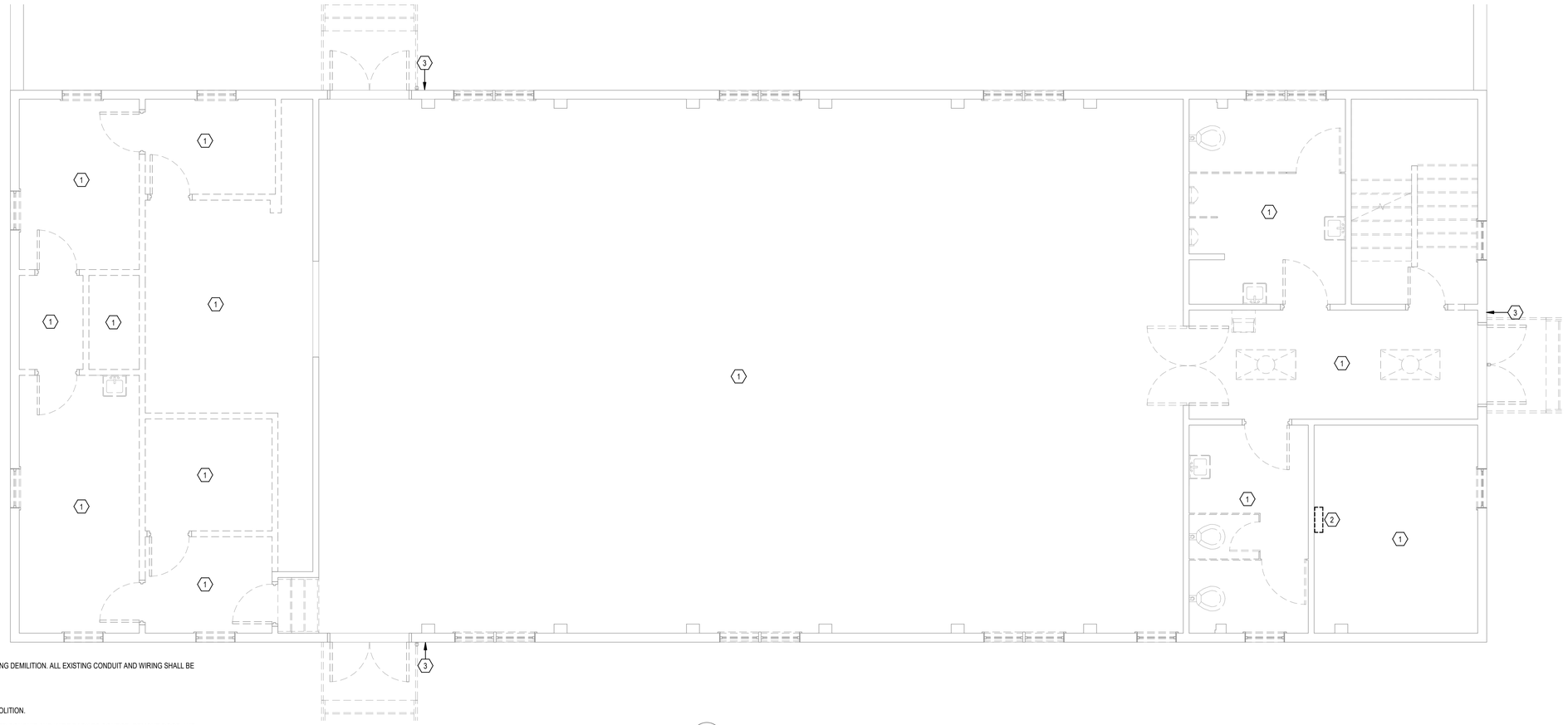


2 / E1.1 SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
1/4" = 1'-0"



1 / E1.1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
1/4" = 1'-0"

DEMOLITION KEYED NOTES: (#)

1. ALL ELECTRICAL, FIRE, LIGHTING AND DATA DEVICES IN THIS AREA SHALL BE REMOVED DURING DEMILITION. ALL EXISTING CONDUIT AND WIRING SHALL BE REMOVED BACK TO THE EXISTING PANEL.
2. EXISTING PANEL, SERVICE FEEDER, AND METER SHALL BE REMOVED DURING DEMOLITION.
3. EXISTING EXTERIOR LIGHTING FIXTURE AT THIS LOCATION SHALL BE REMOVED DURING DEMOLITION.
4. DEMOLISH EXISTING COMMUNICATION CABINET IN THIS LOCATION. DEMOLISH ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE. REMOVE DOOR AND REPAIR WALL OVER THE OPENING TO MATCH NEIGHBORING WALL.

DEMOLITION GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO THE BID.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION IN AREAS OF RENOVATION. ALL WIRING DEVICES, LIGHT FIXTURES, WIRE, AND CONDUIT THAT IS TO BE REMOVED SHALL BE STORED OR DISPOSED OF AS DIRECTED BY THE OWNER OR RELOCATED AS SHOWN ON THE RENOVATION PLAN. APPROPRIATE MEASURES SHALL BE TAKEN TO ASSURE CONTINUITY OF EXISTING CIRCUITS WHERE REQUIRED. SOME EXISTING MECHANICAL EQUIPMENT, WIRING DEVICES, FIXTURES, ETC., MAY BE REQUIRED TO BE RECONNECTED TO NEW PANELBOARDS BASED UPON EXISTING FIELD CONDITIONS. ALL POWER OUTAGES WHICH MAY RESULT FROM THIS WORK SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE WORK. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER TO ANY AND ALL LIGHTS, WIRING DEVICES, AND HVAC EQUIPMENT REQUIRED TO BE REMOVED UNDER THIS PHASE OF WORK. REMOVE ALL RELATED SWITCHES, DISCONNECTS, ETC. REMOVE ALL RELATED WIRE AND CONDUIT IN ITS ENTIRETY UNLESS IT SERVES OTHER EXISTING DEVICES/EQUIPMENT WHICH ARE TO REMAIN, IN WHICH CASE, THE ELECTRICAL CONTRACTOR SHALL SPLICE CONDUCTORS AS REQUIRED AND ASSURE THAT EXISTING CIRCUIT CONTINUITY IS MAINTAINED. INACCESSIBLE CONDUIT MAY BE ABANDONED IN PLACE.
3. THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REROUTE ANY ELECTRICAL FEEDER OR BRANCH CIRCUIT WIRE AND CONDUIT AS REQUIRED TO ACCOMMODATE ANY NEW CONSTRUCTION. INSTALL JUNCTION BOXES AND EXTEND EXISTING WIRE & CONDUIT AS REQUIRED.
4. THE ACCESSIBLE PORTION OF ANY AND ALL ABANDONED DATA/COMMUNICATIONS CABLES, COPPER AND OPTICAL FIBER, SHALL BE REMOVED AS REQUIRED BY THE NEC.

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ELECTRICAL DEMOLITION PLANS

E1.1

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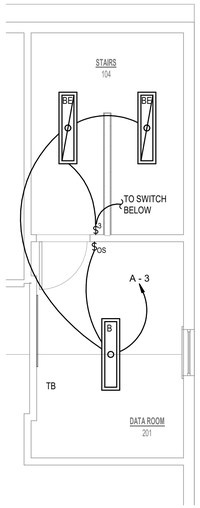
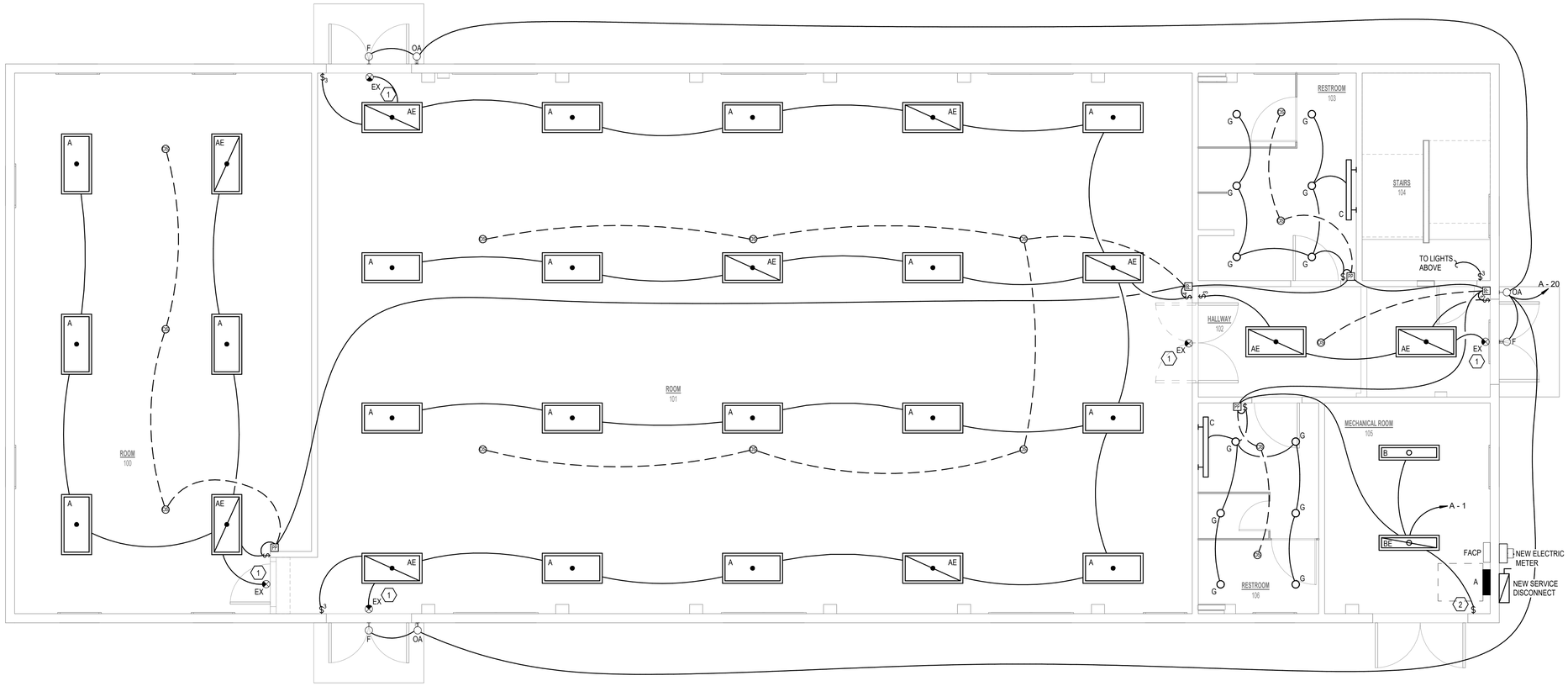


2 E2.1 SECOND FLOOR PLAN - LIGHTING
1/4" = 1'-0"

Type	Manufacturer	Part Number	Description	Type	Load (W)	Voltage (V)	Comments
A	Metalux	24CGTS-L3C3	2x4 FLAT PANEL	LED	41.6	120	Set CCT to 3500K, 5000 LUMENS
AE	Metalux	24CGTS-L3C3-EL14W	2X4 FLAT PANEL	LED	41.6	120	Set CCT to 3500K, 5000 LUMENS, WITH BATTERY
B	Metalux	4SNX-SL3-LW-UNV-CC83-CD1-U/AYC-CHAIN SET-U	4' STRIP LIGHT	LED	33	120	Set CCT to 3500K, 4000 LUMENS
BE	Metalux	4SNX-SL3-LW-UNV-CC83-CD1-U/AYC-CHAIN SET-U-EL14W	4' STRIP LIGHT	LED	33	120	Set CCT to 3500K, 4000 LUMENS, WITH BATTERY
C	Fail-Safe	4BCLED-LD4-20SL-F-UNV-L835-CD1-U	4' WALL BRACKET LED	LED	17	120	2000 LUMENS
F	Surelites	SELDWA50-(FINISH)-SD	EMERGENCY LIGHT	LED	2	120	
EX	Surelites	LPX7	EXIT SIGN	LED	2	120	
G	Halo Commercial	HC605D010-HM60525835-61MDC	6" DOWNLIGHT	LED	6.5	120	1700 LUMENS, BRONZE FINISH, INTEGRAL PHOTOCELL
OA	Lumark	AXCS1A PC1	FULL CUTOFF WALL MOUNT	LED	12	120	Set CCT to 3500K, 500 LUMENS

NOTE:
FOR TYPE "A" AND "AE" FIXTURES CONTRACTOR SHALL VERIFY AND COORDINATE REQUIREMENTS FOR MOUNTING KITS FOR EACH LOCATION AND SUPPLY NECCESSARY MLUNTING EQUIPMENT TO MOUNT FIXTURES IN EACH LOCATION.



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

LIGHTING KEYED NOTES: (#)

1. CONNECT TO LIGHTING CIRCUIT AHEAD OF ALL CONTROLS.
2. DIGITAL TIMER SWITCH. LEVITON #LTB02-1LZ OR EQUAL.

GENERAL LIGHTING NOTES:

1. EXIT SIGNS SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ALL CONTROLS.
2. CONNECT SWITCHED EMERGENCY LIGHTING SUCH THAT UPON LOSS OF POWER THE FIXTURES BYPASS CONTROLS AND PROVIDE FULL ILLUMINATION FOR EGRESS.

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LIGHTING PLANS

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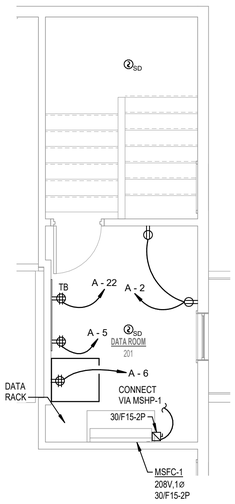
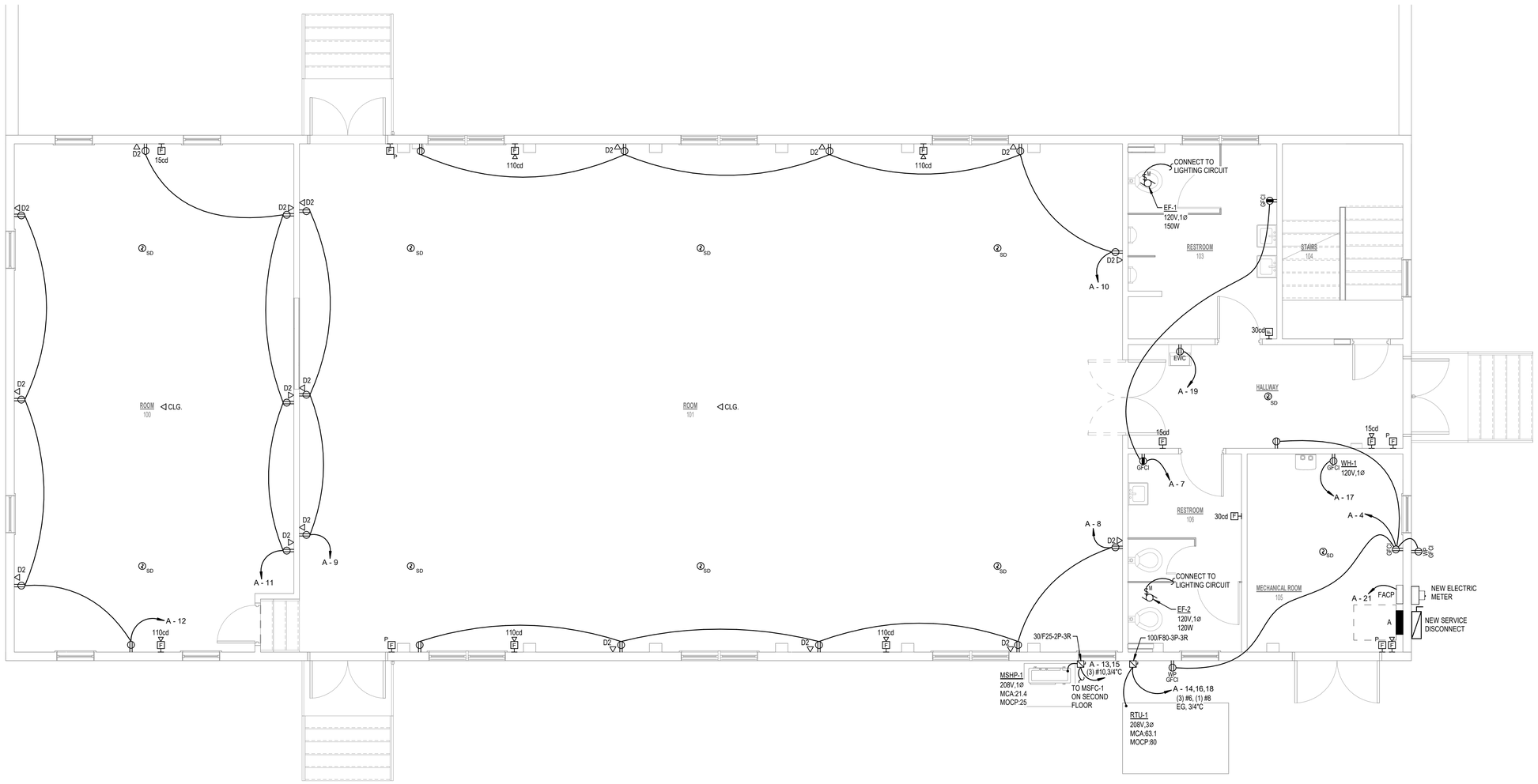


2 E3.1 SECOND FLOOR PLAN - POWER AND SYSTEMS PLAN
1/4" = 1'-0"



1 E3.1 FIRST FLOOR PLAN - POWER AND SPECIAL SYSTEMS PLAN
1/4" = 1'-0"

GENERAL POWER AND SYSTEMS NOTES:

1. FINAL CONNECTIONS TO ALL MOTORS TO BE IN FLEXIBLE METAL CONDUIT, (SEAL-TIGHT OUTDOORS AND WET LOCATIONS).

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POWER AND SYSTEMS PLANS
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PLUMBING LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWC	DOMESTIC HOT WATER RETURN
SS	SANITARY SEWER
GW	SANITARY - GREASE WASTE
AW	SANITARY - ACID WASTE
SD	STORM DRAIN
V	VENT
G	NATURAL GAS
CD	CONDENSATE DRAIN

VALVING

BFV BFV	BUTTERFLY VALVE (lever operator)
BFV BFV	BUTTERFLY VALVE (wheel operator)
GV GV	GATE VALVE
CHK CHK	CHECK VALVE
GB GB	GLOBE VALVE
ST ST	STRAINER (Y-TYPE)
BV BV	BALL VALVE

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

ABBREVIATION OR SYMBOL	DESCRIPTION
	FLEXIBLE PIPING
	EXISTING PIPING TO REMAIN (refer to line designation)
	EXISTING TO BE REMOVED (back to point indicated)
	CONNECT TO EXISTING
	BELOW GRADE PIPING (fine dash)

THREADED WATER & GAS PIPING

	PIPE DOWN
	PIPE UP
	THREADED TEE DOWN
	THREADED TEE UP
	BRANCH - BOTTOM OF PIPE
	BRANCH - TOP OF PIPE
	90 DEGREE ELBOW
	45 DEGREE ELBOW
	TEE
	UNION

ABBREVIATION OR SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
FFE	FINISH FLOOR ELEVATION
VTR	VENT THROUGH ROOF
VTW	VENT THROUGH WALL
	PIPE PENETRATION (through floor/wall/etc)
	DCW ROUGH-IN
	DHW ROUGH-IN

LONG RADIUS SEWER & VENT PIPING

	PIPE DOWN
	PIPE UP
	PIPE WYE DOWN
	PIPE WYE UP
	BRANCH - BOTTOM OF PIPE
	BRANCH - TOP OF PIPE
	ELBOW
	45 DEGREE ELBOW
	WYE WITH EIGHTH BEND
	UNION

PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH ALL LOCAL CODES, AUTHORITIES HAVING JURISDICTION, DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES ARE FOUND - THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK.
2. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO COMPLETE PROJECT DOCUMENTS FOR COORDINATION WITH OTHER DISCIPLINES.
3. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO PROVIDE THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
4. REFER TO PLUMBING SCHEDULES AND SPECIFICATIONS FOR BASIS OF DESIGN, ACCEPTABLE MANUFACTURERS, AND MODELS OF PLUMBING FIXTURES AND EQUIPMENT.
5. PROVIDE CLEANOUTS IN ALL SANITARY LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100' AND AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES.
6. PROVIDE A TWO-WAY CLEANOUT AT THE JUNCTION OF ALL BUILDING DRAINS AND BUILDING SEWERS.
7. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. ALL SANITARY LINES 2 1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ALL SANITARY LINES 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. VERIFY EXISTING SANITARY LINE ELEVATIONS AND COORDINATE INSTALLATION TO ENSURE PROPER FLOW.
9. SEAL ALL PIPE PENETRATIONS THROUGH WALLS, ROOF, AND FLOOR AIR AND WATER TIGHT.
10. ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM UNLESS NOTED OTHERWISE. PROVIDE A TRAP GUARD EQUAL TO PROSET OR SURE SEAL SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR ALL FLOOR DRAINS.
11. ALL PIPE DROPS FROM CEILING PLENUM TO BELOW FLOOR SHALL BE MADE IN FURR-OUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.
12. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS. ALL EXPOSED PLUMBING TRIM SHALL BE CHROME PLATED.
13. PROVIDE TIGHT-FITTED MOLDED PLASTIC INSULATION AT ALL EXPOSED WATER AND DRAIN PIPING FOR ADA FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS. FINISH SHALL BE WHITE.
14. ALL DOMESTIC WATER SHALL BE ROUTED ABOVE CEILING. ALL DOMESTIC WATER ROUTED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF ROOM INSULATION.
15. MAINTAIN A MINIMUM OF 15' BETWEEN ALL HVAC FRESH AIR INTAKES AND PLUMBING VENTS. COORDINATE WITH MECHANICAL BEFORE INSTALLATION OF VTRs.
16. CONTRACTOR SHALL VISIT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
17. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UTILITIES AND INVERTS PRIOR TO ROUTING SERVICES. CONTRACTOR SHALL COORDINATE ALL SANITARY SEWER, FIRE, GAS AND DOMESTIC WATER LINES WITH EXISTING UTILITIES AND WITH CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITY LINES.
18. CONTRACTOR SHALL PAY ALL UTILITY FEES AND CHARGES IN THE CONTRACT.
19. PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTORS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROVIDE FOR PROPER OPERATION OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
20. FIRE STOP ALL PIPE PENETRATIONS THROUGH RATED WALLS. REFER TO SPECIFICATIONS.
21. PIPING SHALL NOT BE ROUTED OVER ELECTRICAL ROOMS, COMPUTER ROOMS, ELECTRICAL PANELS, OR ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
22. PROVIDE LEAD-FREE PRESSURE REDUCING VALVE AT DOMESTIC ENTRANCE TO PROVIDE ADEQUATE PRESSURE AT ALL OUTLETS IN ACCORDANCE WITH THE SYSTEM REQUIREMENTS.
23. EACH FIXTURE GROUP OR BATTERY OF FIXTURES SHALL BE PROVIDED WITH A SHUTOFF VALVE IN THE DOMESTIC HOT AND COLD WATER SUPPLY LINES ABOVE CEILING. VALVES SHALL BE ACCESSIBLE FROM ROOM BELOW.
24. PAINT EXPOSED PIPING AND PIPE INSULATION. COORDINATE WITH OWNER FOR FINAL COLOR.
25. ALL UNDER FLOOR WATER PIPING SHALL BE PROVIDED WITH A POLYETHYLENE SLEEVE. EXTEND SLEEVE UP THROUGH FLOOR SLAB AND SEAL AIR AND WATER TIGHT.
26. PLASTIC PIPE IS PROHIBITED IN RETURN AIR PLENUMS. ALL PIPING AND PIPE CONNECTIONS IN RETURN AIR PLENUMS SHALL BE PLENUM RATED.
27. PIPING THROUGH FOUNDATION WALLS AND FOOTINGS SHALL BE SLEEVED AS PER STRUCTURAL DETAILS.
28. ALL PIPE CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE THROUGH DIELECTRIC UNIONS.
29. ALL PLUMBING COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH THE ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, PLUMBING FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
30. REFER TO PLUMBING SPECIFICATIONS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
31. EXACT LOCATION OF ALL EQUIPMENT AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING-MOUNTED SPRINKLER AND LIGHTING SHALL TAKE PRECEDENCE OVER CEILING-MOUNTED MECHANICAL REQUIREMENTS.
32. PROVIDE FABRICATED EXPANSION LOOP OR MANUFACTURED EXPANSION DEVICE ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
33. WATER SUPPLY CONNECTIONS TO COFFEE MACHINES AND NONCARBONATED BEVERAGE DISPENSERS SHALL BE PROVIDED WITH A BACKFLOW PREVENTER OR AN AIR GAP.

RENOVATION GENERAL NOTES:

1. THE EQUIPMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE FINAL LOCATIONS SHALL BE ESTABLISHED IN THE FIELD TO BEST FIT THE AVAILABLE SPACE. COORDINATE WITH STRUCTURAL DRAWINGS.
2. INSPECT THE EXISTING SYSTEM; ANY EXISTING EQUIPMENT, DUCTS, OR PIPING FOUND TO BE DAMAGED OR NON-OPERABLE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
3. PHASE DEMOLITION AND RENOVATION WORK TO MAINTAIN EXISTING BUILDING AS REQUIRED BY BUILDING OWNER/OCCUPANTS. PROVIDE TEMPORARY SERVICES AS REQUIRED.
4. VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO DUCT, PIPE, OR EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING SYSTEMS IN THE SPACE.
5. USE EXISTING PIPING SYSTEM VALVES WHERE POSSIBLE TO ISOLATE SYSTEMS AND TO CAP EXISTING PIPING. REPLACE EXISTING VALVES WHERE NECESSARY WHEN EXISTING VALVES WILL NOT HOLD.
6. FIREPROOFING ON EXISTING STRUCTURE SHALL BE REPLACED OR REPAIRED WHERE DISTURBED FROM THE INSTALLATION OF MECHANICAL SYSTEMS.
7. REPLACE AND/OR PATCH TO MATCH EXISTING ANY EXISTING DUCT OR PIPING INSULATION THAT IS TO REMAIN EXISTING AND IS DAMAGED DURING CONSTRUCTION.
8. WHEN CONNECTING TO EXISTING PIPING STUB-OUTS, INSULATE EXISTING STUB-OUT PIPING INCLUDING VALVE BODIES.
9. INSPECT THE EXISTING DUCTWORK WITHIN PROJECT BOUNDARIES FOR POSSIBLE DAMAGE OR CONDENSATION. REPAIR AND RE-INSULATE.
10. WORK REQUIRED IN THE AREAS OUTSIDE OF THE FLOOR AREA FOR PLUMBING OR HVAC WORK SHALL BE SCHEDULED WITH THE OWNER 48 HOURS IN ADVANCE. COORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS WITH OWNER'S REPRESENTATIVE.
11. ANY DAMAGE TO THE EXISTING BUILDING, STRUCTURE, FINISHES, OR ARCHITECTURAL FEATURES CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
12. EXISTING FIRE SPRINKLER SYSTEM SHALL BE MODIFIED FOR NEW CEILING AND ROOM LAYOUTS. COORDINATE WITH THE SPRINKLER CONTRACTOR FOR SPACE AND LOCATION REQUIREMENTS.
13. UTILITY DOWN-TIME SHALL BE KEPT TO A MINIMUM AND SCHEDULED THREE DAYS IN ADVANCE.

PLUMBING -- FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	FAUCETS & FITTINGS	STOPS	TRAPS	MOUNTING	BRANCH CONNECTIONS DCW	BRANCH CONNECTIONS DHW	BRANCH CONNECTIONS SS	REMARKS
DF	SINGLE STATION WATER COOLER	ELKAY	EZS8WSLK	BOTTLE FILLER	-	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	WALL	1/2"		2"	
HB	EXPOSED, FREEZE-PROOF HOSE BIBB	ZURN	Z1321	-	-	BALL VALVE	-	WALL	3/4"			HYDRANT SHALL BE EXPOSED, NON-FREEZE, ANTI-SIPHON, AND AUTOMATIC DRAINING
JS	WALL-MOUNTED SERVICE SINK	KOHLER	K-6714	K-9142 (STRAINER)	K-830T60-4A	BALL VALVE	K-6673 Adjustable Trap	WALL	1/2"	1/2"	3"	PROVIDE WALL WALL-MOUNTED MOP HANGER EQUAL TO U-LINE H-2841
L1	WALL MOUNT LAVATORY	ZURN	Z5310	HARDWIRED POWER CONVERTER	Z6913-XL (MANUAL FAUCET)	-	-	WALL	1/2"	1/2"	2"	
U1	URINAL	ZURN	Z5755-U	-	Z6003PL-EWS (0.5GPF MANUAL FLUSH VALVE)	INTEGRAL	INTEGRAL	WALL	3/4"		2"	
WC1	WATER CLOSET - STANDARD HEIGHT	ZURN	Z5655	SEAT; HARDWIRED POWER CONVERTER	ZEMS6000AV-HET (1.28GPF MANUAL FV)	INTEGRAL	INTEGRAL	FLOOR	1"		4"	SEAT SHALL HAVE CHECK HINGE WITH STAINLESS STEEL HARDWARE.

1 ALL FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
2 CONTRACTOR IS RESPONSIBLE FOR COORDINATING FAUCET SPACING AND STYLE WITH MOUNTING HOLES IN FIXTURE.
3 ALL FIXTURES WITH HOT WATER FEEDS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
4 CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ALL AUTHORITIES HAVING JURISDICTION.

PLUMBING -- EQUIPMENT SCHEDULE

TAG	MARK	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	BRANCH CONNECTIONS DCW	BRANCH CONNECTIONS DHW	DESIGN EWT	WH SETPOINT	TANKLESS DESIGN FLOW RATE	GAS HEAT GAS HEATING INPUT	ELECTRICAL DATA VOLTAGE (V)	ELECTRICAL DATA PHASE	ELECTRICAL DATA WATTAGE	REMARKS
WH	1	CONDENSING TANKLESS GAS WATER HEATER	NAVIEN	NPE-180A	WALL	3/4"	3/4"	55.0 °F	110.0 °F	5.0 GPM	150,000 Btu/h	120 V	1	0.4 kW	REFER TO PLUMBING DETAILS FOR FULL REQUIREMENTS.

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PLUM. NOTES, SCHEDULES, AND LEGENDS

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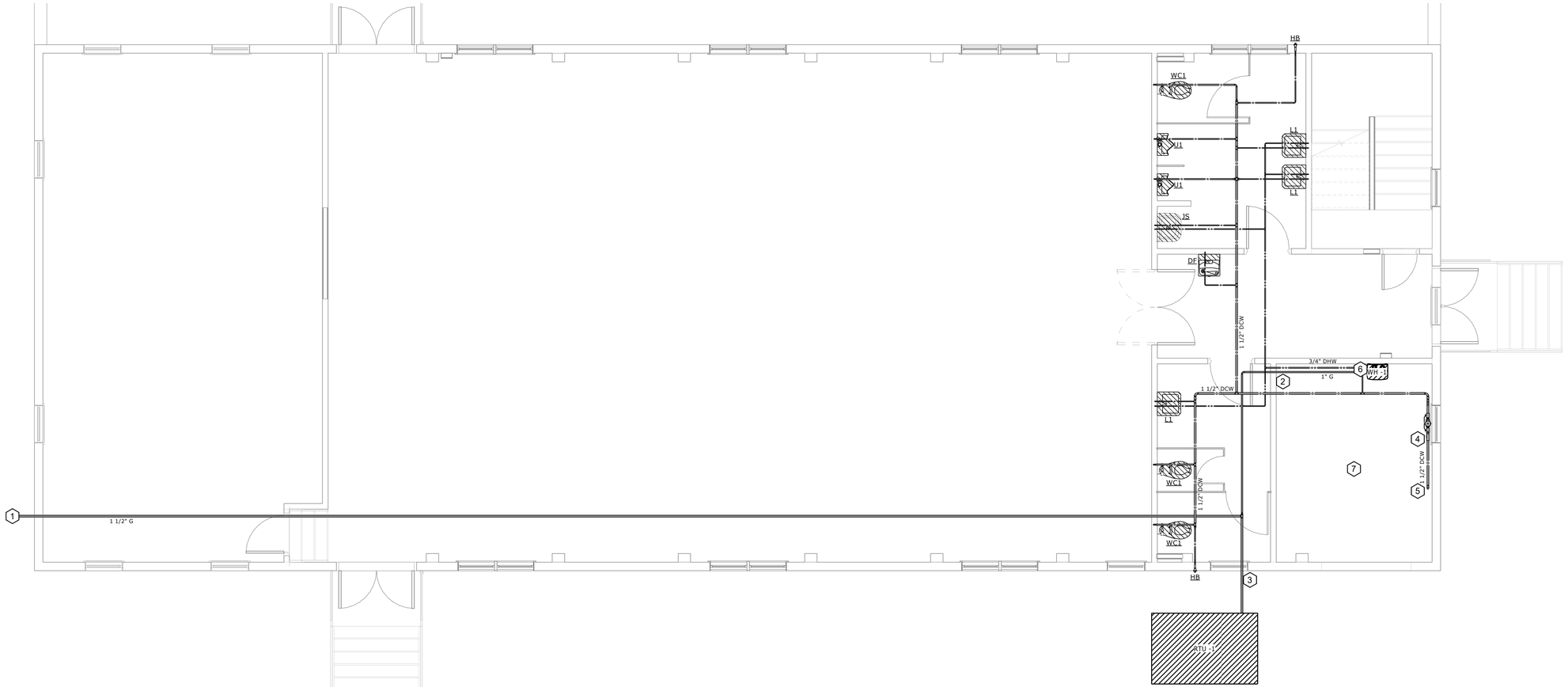

1 PLUMBING PLAN

1/4" = 1'-0"

GENERAL NOTES

1. ALL EXISTING SANITARY WASTE AND VENT PIPING SHALL REMAIN. ALL EXISTING DOMESTIC WATER, INCLUDING EXISTING WATER HEATER, AND NATURAL GAS PIPING SHALL BE DEMOLISHED AND REPLACED WITH NEW. ALL EXISTING FIXTURES SHALL BE REPLACED WITH NEW AS SHOWN.
2. ALL DOMESTIC WATER PIPING SHALL BE CONCEALED ABOVE CEILING UNLESS SPECIFICALLY NOTED OTHERWISE. WHERE PIPING IS EXPOSED, PAINT PER ARCHITECT.
3. PROVIDE WATER HAMMER ARRESTOR BEFORE LAST FIXTURE IN EACH MAIN AND BRANCH MAIN. REFER TO PLUMBING DETAILS FOR FULL REQUIREMENTS.
4. PROVIDE ISOLATION BALL VALVE AT EACH FIXTURE BRANCH IN BOTH DCW AND DHW BRANCH LINES.

KEYED NOTES

1. EXISTING GAS MATER. ROUTE NEW GAS LINE IN CRAWL-SPACE TO MECHANICAL ROOM.
2. ROUTE GAS PIPING THROUGH WALL INTO MECHANICAL ROOM TO WH-1.
3. ROUTE GAS THROUGH CRAWL-SPACE WALL AND OUT TO RTU-1.
4. PROVIDE NEW RPZ. REFER TO PLUMBING DETAILS FOR REQUIREMENTS. COORDINATE FINAL LOCATION AND DCW ROUTING CLOSELY WITH ELECTRICAL PANELS IN ROOM TO PREVENT CONFLICT WITH ELECTRICAL GEAR. ALL DCW PIPING SHALL BE ROUTED BELOW PANELS.
5. CONNECT TO EXISTING DCW IN ROOM.
6. REFER TO PLUMBING DETAILS FOR FULL WATER HEATER PIPING AND ACCESSORY REQUIREMENTS.
7. ALL DOMESTIC WATER PIPING, BOTH EXISTING AND NEW, IN MECHANICAL ROOM SHALL BE INSULATED TO PROTECT AGAINST FREEZING. REFER TO PLUMBING SPECIFICATIONS FOR FULL REQUIREMENTS.

PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
DF	SINGLE STATION WATER COOLER	1/2"		2"
HB	EXPOSED, FREEZE-PROOF HOSE BIBB	3/4"		
JS	WALL-MOUNTED SERVICE SINK	1/2"	1/2"	3"
L1	WALL MOUNT LAVATORY	1/2"	1/2"	2"
U1	URINAL	3/4"		2"
WC1	WATER CLOSET - STANDARD HEIGHT	1"		4"

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PLUMBING PLAN

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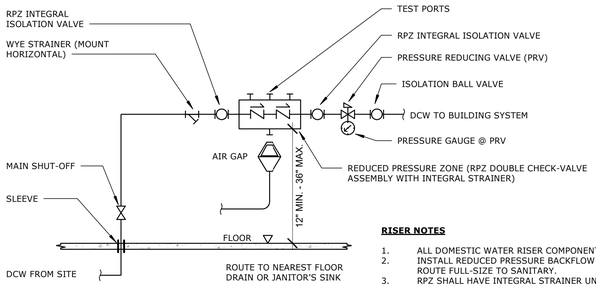


RPZ SIZE	MAKE	MODEL
1/4" - 2"	WATTS	LF009M2QT
2 1/2" - 3"	WATTS	LF009QTSFDA
4" - 10"	WATTS	LF909OSYSFDA

PRV NOTES

1. IF INCOMING PRESSURE IS 70PSI OR GREATER, PROVIDE PRV EQUAL TO WATTS LF223 FOR 2 1/2" AND BELOW. PRV SHALL BE EQUAL TO WATTS LFN223B FOR 3".
2. SIZE PRV PER PLANS OR MATCH RPZ SIZE, DO NOT SIZE BASED ON DISTRIBUTION PIPE SIZE.
3. ENGINEER SHALL BE INFORMED IF INCOMING PRESSURE AT BUILDING IS 150PSI OR GREATER.

RISER NOTES

1. ALL DOMESTIC WATER RISER COMPONENTS SHALL BE LEAD-FREE.
2. INSTALL REDUCED PRESSURE BACKFLOW PREVENTER WITH MANUFACTURER'S AIR GAP AND ROUTE FULL-SIZE TO SANITARY.
3. RPZ SHALL HAVE INTEGRAL STRAINER UNLESS SPATIAL CONSTRAINTS REQUIRE STRAINER TO BE INSTALLED SEPARATELY.
4. INSTALL PIPE STANDS TO SUPPORT THE COMPONENTS. DO NOT SUPPORT ASSEMBLIES FROM PIPING. INSTALL BEARING PLATES ON CONCRETE FLOOR UNDER EACH SUPPORT.
5. COORDINATE FINAL LOCATION OF DOMESTIC RISER WITH ALL OTHER SYSTEMS AND EQUIPMENT IN ASSOCIATED ROOM. RISER SHALL NOT INTERFERE WITH OR IMPEDE OPERATIONS OF OTHER SYSTEMS OR FACILITY PERSONNEL.
6. INSTALL ALL VALVES SO THAT VALVE HANDLES ARE NOT IMPEDED IN ANY MANNER AND ARE EASILY OPERATED FROM INTERIOR OF ROOM.

1 RPZ DOMESTIC WATER RISER

NOT TO SCALE

HAMMER ARRESTOR SCHEDULE		
SUPPLY BRANCH SIZE	PDI HAMMER ARRESTOR SIZE	FIXTURE UNITS
1/2" - 1"	A	1-11
1-1/4"	B	12-32
1-1/2"	C	33-60
2"	D	61-113
2-1/2"	E	114-154
3"	F	155-330

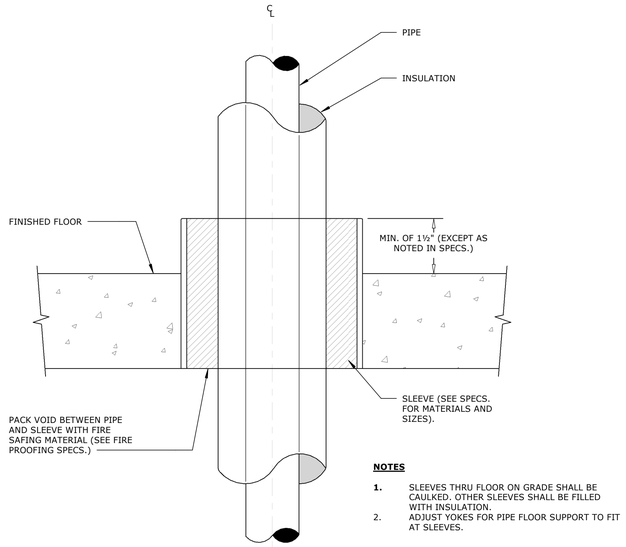
COMMON PUBLIC FIXTURE GROUPS		
PLUMBING GROUP FIXTURES	C.W.F.U.	
	FLUSH TANK	FLUSH VALVE
1 TLT, 1 LAV	6.5	11.5
2 TLT, 2 LAV	13.5	23
1 TLT, 1 UR, 1 LAV	13	18
3 TLT, 3 LAV	19.5	34.5
2 TLT, 1 UR, 3 LAV	19.5	29.5
4 TLT, 4 LAV	26	46

NOTES:

1. ALL BATHROOM GROUPS SHALL INCLUDE A MINIMUM OF ONE DCW ARRESTOR AND ONE DHW ARRESTOR SIZED PER HAMMER ARRESTOR SCHEDULE. ADDITIONAL ARRESTORS SHALL BE INSTALLED WHERE INDICATED.
2. ARRESTORS SHALL BE P.D.I.-WH201 APPROVED AND CERTIFIED.
3. ARRESTORS SHALL HAVE WROUGHT COPPER SHELL WITH THREADED CONNECTIONS AND HYDRO-PNEUMATIC AIR CUSHION.
4. PROVIDE ACCESS TO ARRESTORS.
5. FURNISH AND INSTALL WITH ISOLATION VALVES INDEPENDENT OF ASSEMBLY.

2 WATER HAMMER ARRESTOR SCHEDULE

NOT TO SCALE

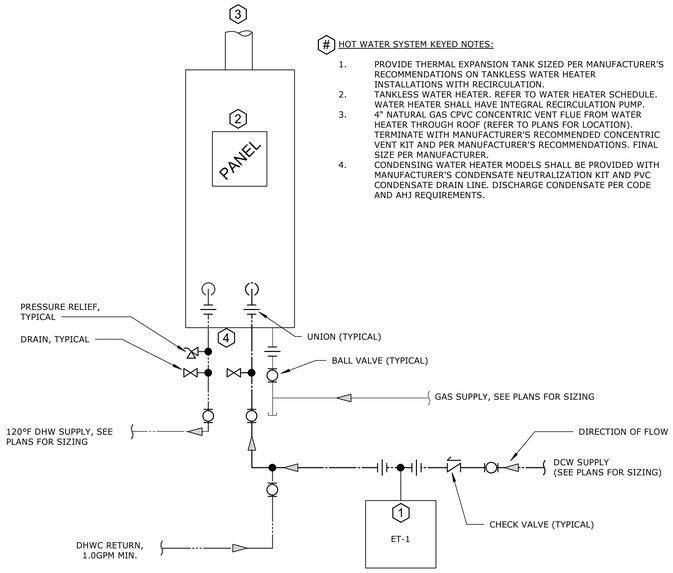


NOTES

1. SLEEVES THRU FLOOR ON GRADE SHALL BE CAULKED. OTHER SLEEVES SHALL BE FILLED WITH INSULATION.
2. ADJUST YOKES FOR PIPE FLOOR SUPPORT TO FIT AT SLEEVES.

3 PIPE SLEEVE THROUGH FLOOR

NOT TO SCALE

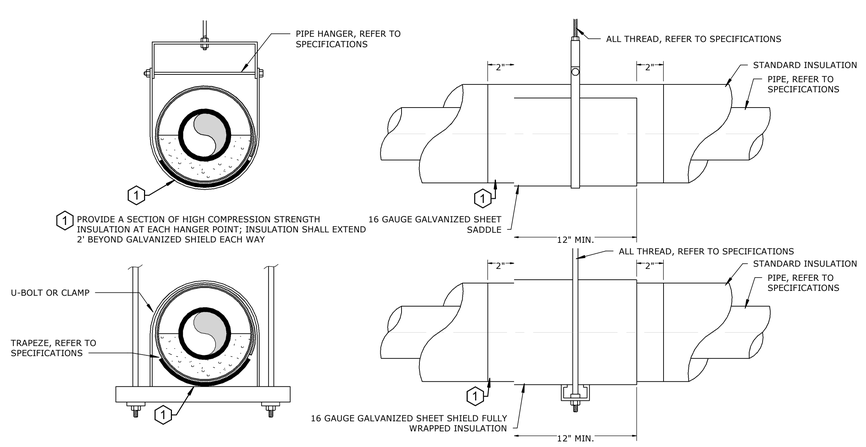


HOT WATER SYSTEM KEYED NOTES:

1. PROVIDE THERMAL EXPANSION TANK SIZED PER MANUFACTURER'S RECOMMENDATIONS ON TANKLESS WATER HEATER INSTALLATIONS WITH RECIRCULATION.
2. TANKLESS WATER HEATER. REFER TO WATER HEATER SCHEDULE. WATER HEATER SHALL HAVE INTEGRAL RECIRCULATION PUMP.
3. 4" NATURAL GAS CPVC CONCENTRIC VENT FLUE FROM WATER HEATER THROUGH ROOF (REFER TO PLANS FOR LOCATION). TERMINATE WITH MANUFACTURER'S RECOMMENDED CONCENTRIC VENT KIT AND PER MANUFACTURER'S RECOMMENDATIONS. FINAL SIZE PER MANUFACTURER.
4. CONDENSING WATER HEATER MODELS SHALL BE PROVIDED WITH MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT AND PVC CONDENSATE DRAIN LINE. DISCHARGE CONDENSATE PER CODE AND AHJ REQUIREMENTS.

4 WATER HEATER - TANKLESS W/RECIRC

NOT TO SCALE



5 INSULATED PIPE HANGER

NOT TO SCALE

CMTC BUILDING 1486 RENOVATIONS

1486, 4TH AVE., FORT CHAFFEE, AR 72905

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PLUMBING DETAILS I

P2.1

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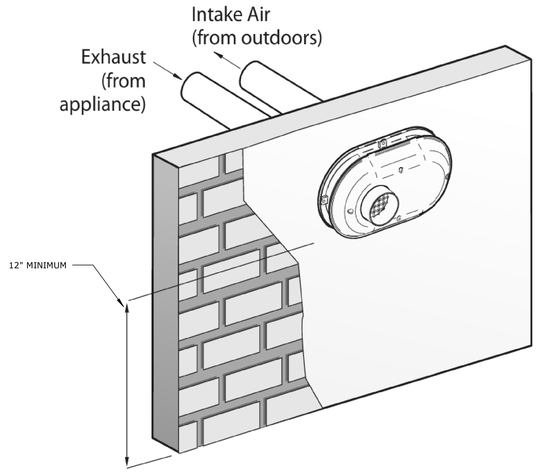


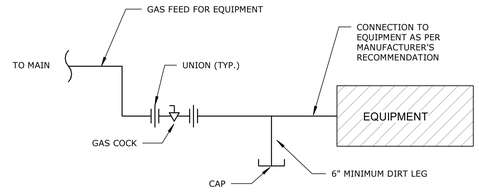
[Exterior View]

NOTES:

1. COORDINATE FINAL LOCATION OF WALL PENETRATION WITH ARCHITECT BEFORE INSTALLATION.
2. CONTRACTOR SHALL MAINTAIN ALL CODE REQUIRE CLEARANCES FROM OUTDOOR AIR INTAKES, WALKWAYS, AND DOORWAYS.

1 GAS VENT TERMINATION - WALL

NOT TO SCALE



NOTES:

1. GAS-FIRED EQUIPMENT SHALL BE PROVIDED WITH REGULATOR TO REDUCE SYSTEM PRESSURE AND FLOW TO THAT REQUIRED FOR GAS-FIRED EQUIPMENT.
2. ALL GAS-FIRED EQUIPMENT PROVIDED WITHOUT INTERNAL GAS REGULATOR FROM FACTORY, OR WITH ONE OF INADEQUATE CAPACITY, SHALL BE PROVIDED WITH AN EXTERNAL GAS REGULATOR CAPABLE OF SUPPLYING GAS SERVICE TO EQUIPMENT AT PRESSURE AND FLOW AS PRESCRIBED BY EQUIPMENT MANUFACTURER.

2 GAS CONNECTION TO EQUIPMENT

NOT TO SCALE

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PLUMBING DETAILS II

P2.2

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