CITY OF DAYTON

DAYTON FIRE DEPARTMENT

STATION 15

2801 Wayne Ave, Dayton, Ohio 45420

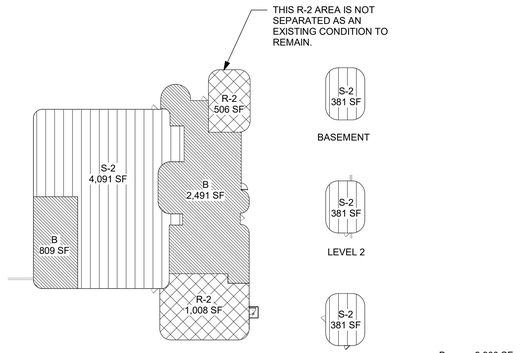
ARCHITECT

App Architecture
615 Woodside Drive
Englewood, Ohio 45322
(937) 836-8898

MECHANICAL & ELECTRICAL ENGINEERS

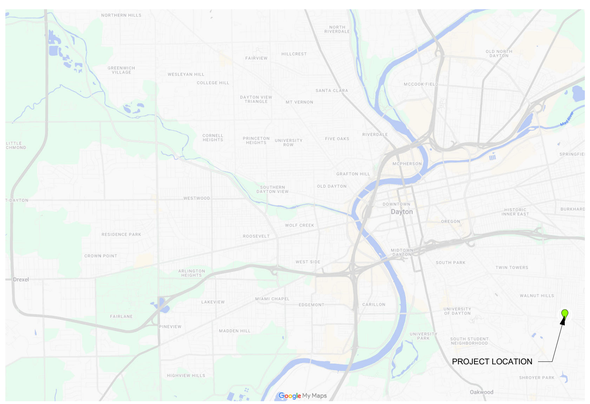
Nauman & Zelinski, LLC
204 South Ludlow Street, Suite 400
Dayton, Ohio 45402
(937) 223-3821

USE GROUP PLAN



B:	3,300 SF
R-2:	1,514 SF
S-2:	5,234 SF
TOTAL:	10,048 SF

VICINITY MAP



CODE INFORMATION (OBC 2024, OEBC 2024)

2024 OHIO EXISTING BUILDING CODE (OEBC)

COMPLIANCE METHOD

SECTION 301.3.1 PRESCRIPTIVE COMPLIANCE METHOD
COMPLIANCE WITH OEBC SECTIONS 302-309 AND CHAPTER 5.

2024 OHIO BUILDING CODE (OBC)

PROJECT DESCRIPTION

PROJECT CONSISTS OF INTERIOR RENOVATION OF AN EXISTING FIRE STATION FOR THE CITY OF DAYTON.

USE GROUP CLASSIFICATION (REFER TO USE GROUP PLAN THIS SHEET)

OBC (302) USE GROUP: MIXED USE - UNSEPARATED
B: STATION OFFICES AND LIVING AREAS
R-2: CREW SLEEPING QUARTERS
S-2: APPARATUS BAYS AND STORAGE AREAS

OBC (508.3) MIXED OCCUPANCIES:
UNSEPARATED MIXED USE
EXCEPTION 2: R-2 DWELLING AND SLEEPING UNITS SHALL BE SEPARATED FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 420.

OBC (708.3) FIRE RESISTANCE RATING:
EXCEPTION 2: DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDINGS OF TYPE IIB, IIIB, AND VB CONSTRUCTION SHALL HAVE FIRE-RESISTANT RATINGS OF NOT LESS THAN 1/2-HOUR IN BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.

SLEEPING UNITS TO HAVE 20 MIN. RATED DOORS AND FRAMES IN ACCORDANCE WITH OBC TABLE 716.1.

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE = IIB

HEIGHT AND AREA LIMITATIONS

OBC (503) ALLOWABLE AREA = 16,000 SF (BASED ON R-2, MOST RESTRICTIVE)
ACTUAL AREA = 10,048 SF

OBC ALLOWABLE HEIGHT = 55' - 0" (3 STORIES)
ACTUAL HEIGHT = 32' - 8"

HEIGHT AND AREA REMAIN UNCHANGED.

OCCUPANT LOAD

OBC (1004) ALLOWABLE= SF / SF PER OCCUPANT

FIRE STATION:

B:	3,300 SF / 150 =	22
R-2:	1,514 SF / 200 =	7
S-2:	5,234 SF / 300 =	17
	TOTAL =	46 OCCUPANTS

FIRE PROTECTION

BUILDING DESCRIPTION : LIMITED AREA FIRE SUPPRESSION FOR R-2 USES.

PLUMBING FIXTURES REQUIRED

USE GROUP	WC	LAVS	SHOWERS	D.F.	SERVICE SINK
B	1	1	0	1	1
R-2	1	1	1(SHOWER/EYEWASH)	1	1
S-2	1	1	0	1	1
TOTAL	3	3	1	1	1

PLUMBING FIXTURES PROPOSED

USE GROUP	WC	LAVS	SHOWERS	D.F.	SERVICE SINK
TOTAL	5	8	4/1 (SHOWER/EYEWASH)	1	1

STORM SHELTER PROVISIONS

STORM SHELTER IS NOT REQUIRED FOR EXISTING EMERGENCY FACILITY PER OEBC 2024 SECTION 503.19.

DRAWING INDEX

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STATE OF OHIO TIMOTHY J. BENNETT 12305 REGISTERED ARCHITECT

Timothy J. Bennett License #12305
Expiration Date 12/31/2025

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DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, Ohio 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION
1	10/08/2025	ADDENDUM 2

DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

TITLE
COVER SHEET

SHEET NO.
G0.1

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ABBREVIATIONS

SYMBOL	
@	AT
&	AND
∠	ANGLE
Ø	DIAMETER
℄	CENTER LINE
℞	PLATE

A

ABV	ABOVE
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
ANCH	ANCHOR
APPROX	APPROXIMATELY
ARCH	ARCHITECT OR ARCHITECTURAL
ATTEN	ATTENUATED
AUTO	AUTOMATIC
AVG	AVERAGE

B

BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT

C

CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL
CFOI	CONTRACTOR FURNISH, OWNER INSTALL
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CL	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CPU	CENTRAL PROCESSING UNIT (COMPUTER)
CY	CUBIC YARD

D

DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DS	DOWNSPOUT
DWG	DRAWING
DTL	DETAIL

E

EA	EACH
EC	ELECTRICAL CONTRACTOR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EMERG	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST OR EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F

FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FND	FOUNDATION
FRT	FIRE RETARDANT TREATED WOOD
FT	FOOT OR FEET OR FULLY TEMPERED
FTG	FOOTING
FUR	FURRING
FV	FIELD VERIFY
FOW	FACE OF WALL

G

GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GRADE OR GRADING
GEN	GENERAL
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM BOARD
GWT	GLAZED WALL TILE

H

HB	HOSE BIBB
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWD	HARDWARE

I

ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE (D) (ING)
INT	INTERIOR
INV	INVERT

J

JB	JUNCTION BOX
JC	JANITOR CLOSET

L

L	LONG
LAV	LAVATORY
LBS	POUNDS
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTL	LINTEL
LVR	LOUVER

M

M	MEN OR METER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MOUNTING HEIGHT, MANHOLE
MIL	THOUSANDTHS OF AN INCH
MM	MILLIMETER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL

N

N	NORTH OR NITROGEN
NC	NURSE CALL
NIC	NOT IN CONTRACT
NO	NUMBER OR NITROUS OXIDE
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

O

OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISH, CONTRACTOR INSTALL
OFOI	OWNER FURNISH, OWNER INSTALL
OFVI	OWNER FURNISH, VENDOR INSTALL
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
O_2	OXYGEN

P

PAR	PARALLEL
PC	PLUMBING CONTRACTOR
PCF	POUNDS PER CUBIC FOOT
PL	PLATE OR PROPERTY LINE
PLBG	PLUMBING
PLWD	PLYWOOD
PME	PLUMBING, MECHANICAL & ELECTRICAL
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REINF	REINFORCE
REQD	REQUIRED
RET	RETURN
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY

S

S	SOUTH
SAN	SANITARY
SB	SINK BASE
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FEET
SG	SAFETY GLASS
SH	SPRINKLER HEAD OR SHOWER HEAD
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SQ	SQUARE
ST	STREET
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYS	SYSTEM

T

T & G	TONGUE & GROOVE
TB	TOWEL BAR
TAB	TOP AND BOTTOM
TEL	TELEPHONE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TOW	TOP OF WALL
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL

U

UC	UNDER CABINET OR COUNTER
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE

V

V	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VS	VACUUM SLIDE

W

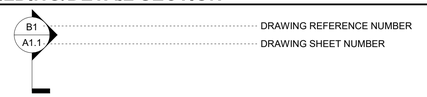
W	WIDE OR WEST OR WOMEN
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET OR WALL CABINET
WD	WOOD
WIN	WINDOW
WP	WORK POINT
WPT	WOOD PRESERVATIVE TREATMENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

REFERENCE SYMBOLS

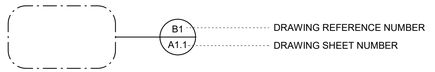
DRAWING TITLE

INTERIOR ELEVATIONS

BUILDING/DETAIL SECTION



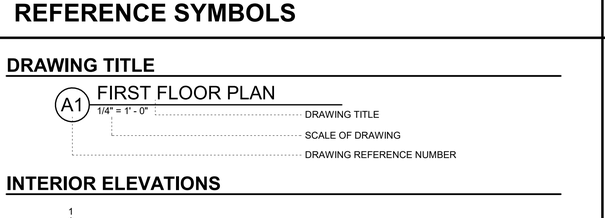
ENLARGED DETAIL



EXTERIOR ELEVATIONS

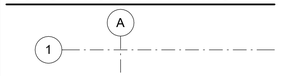
MATCH LINE

MATERIAL SYMBOLS IN SECTION

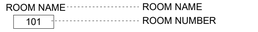


DRAWING SYMBOLS

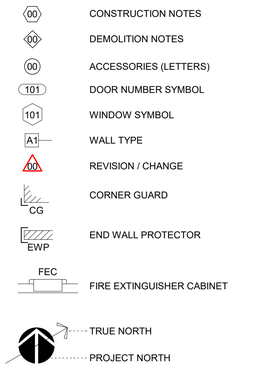
COLUMN CENTER LINES



ROOM SYMBOL

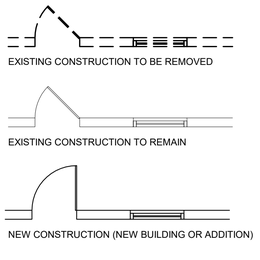


PLAN SYMBOLS

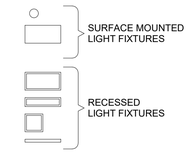


ELEVATION SYMBOLS

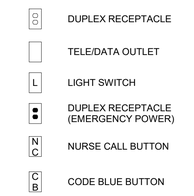
TYPICAL WALL CONVENTIONS



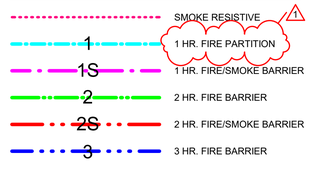
REFLECTED CEILING SYMBOLS



INTERIOR ELEVATION SYMBOLS



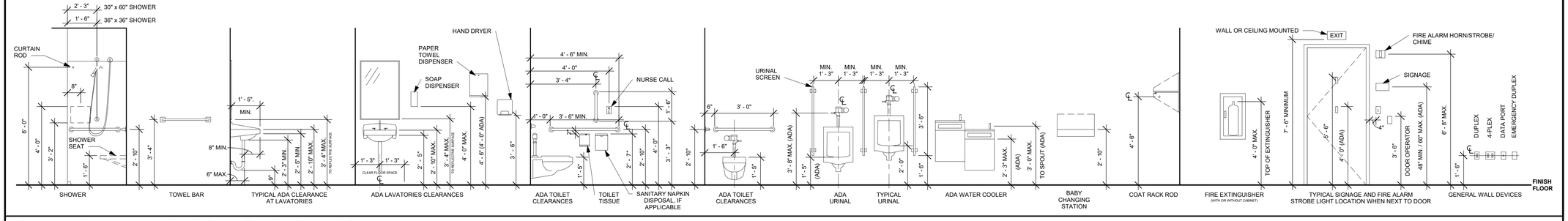
FIRE BARRIER LEGEND



ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.
ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON SUBSEQUENT SHEETS.

MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)



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DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

TITLE
ABBREVIATIONS AND SYMBOLS

SHEET NO.
A0.01

10/9/2025 2:33:00 PM

ROOM FINISH SCHEDULE

ROOM No.	ROOM NAME	FLOOR	BASE	WAINSCOT		WALLS				CEILING	REMARKS
				MAT.	HT.	N	S	E	W	MAT.	
001	TOG/ STORAGE	EX / MG-1	-			EP-1	EP-1	EP-1	EP-1	EX	8
101	REPORT	LVT-1/LVT-2	RB-1			EP-1	EP-1	EP-1	EP-1 / EP-3	GYP / P	2
102	LOBBY	EX	RB-1			P-1	EX	EX / P-3	EX / P-1	GYP / P	3
103	LT. DORM	CPT-1	RB-1	VWP-1	52"	EP-2 / VWP-1	P-1	P-1	EP-2	GYP / P	8
104	TLT/ SHR	EX	EX			EX	EX	EX	EX	EX	
105	LT OFFICE	CPT-1	RB-1			P-1	EP-2	EP-2	EP-1	GYP / P	
106	SUPPLY	EX	EX			EX	EX	EX	EX	EX	
107	SUPPLY	EX	EX			EX	EX	EX	EX	EX	
108	TLT	EX	EX			EX/ EP-2	EX/ EP-2	EX/ EP-2	EX/ EP-2	EX	4
109	DAYROOM	LVT-1/LVT-2/LVT-3	EX / RB-1			EX / P-1	-	-	EP-3	GYP / P/ APC-1	1,7
110.1	APPARATUS BAY 1	EX	EX			EX	EX	EX	EX	EX	
110.2	APPARATUS BAY 2	EX	EX			EX	EX	EX	EX / EP-1	EX	5
110.3	APPARATUS BAY 3	EX	EX			EX	EX / EP-1	EX	EX	EX	5
111	MECH.	EX	EX			EP-1	EP-1	EP-1	EP-1	EXPS-1	
112	HOSE DRYING TOWER	EX	EX			EX	EX	EX	EX	EX	
113	HALL	LVT-1/LVT-2 / MAT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	2
114	KITCHEN	LVT-1/LVT-2	RB-1			EP-1	EP-1	EX	EP-1 / EP-3	GYP / P	2
115	LKR ROOM	LVT-1/LVT-2	RB-1			P-1	P-1	P-1	P-1	APC-1	2
116	LAUNDRY	LVT-1/LVT-2	RB-2			EP-1	EP-1	EP-1	EP-1	APC-1	2
117	TLT/ SHR	PT-1	PTWB-1			PWT-1/PWT-2	EP-2	EP-2	EP-2	APC-1	6
118	TLT/ SHR	PT-1	PTWB-1			EP-2	EP-2	PWT-1/PWT-2	EP-2	APC-1	6
119	TLT/ SHR	PT-1	PTWB-1			EP-2	EP-2	PWT-1/PWT-2	EP-2	APC-1	6
120	ADA DORM	CPT-1	RB-1	VWP-1	52"	P-2 / VWP-1	P-1	P-2 / VWP-1	P-1	APC-1	8
121	ADA DORM	CPT-1	RB-1	VWP-1	52"	P-2 / VWP-1	P-1	P-2 / VWP-1	P-1	APC-1	8
122	ADA DORM	CPT-1	RB-1	VWP-1	52"	P-1	P-2 / VWP-1	P-1	P-2 / VWP-1	APC-1	8
123	DORM	CPT-1	RB-1	VWP-1	52"	P-1	P-2 / VWP-1	P-2 / P-1 / VWP-1	P-2	APC-1	8
124	DORM	CPT-1	RB-1	VWP-1	52"	P-1	P-2 / VWP-1	P-1	P-2 / VWP-1	APC-1	8
125	DORM	CPT-1	RB-1	VWP-1	52"	P-1	P-2 / VWP-1	P-2 / VWP-1	P-1 / P-2 / VWP-1	APC-1	8
126	DECON	EX	RB-2			EP-1	EP-1	EP-1	EP-1	APC-2	
127	FITNESS	RT-1	RB-1			EP-3	EP-1	EP-1	EP-1	EXPS-1	
128	VEST.	EX	EX			EX	EX	EX	EX	GYP / P	
131	TOG	MG-1	EX			EP-1	EP-1	EP-1	EP-1	EXPS-1	
201	TOG/ STORAGE	EX	-			EP-1	EP-1	EP-1	EP-1	EXPS-1	
301	MECH.	EX	-			EP-1	EP-1	EP-1	EP-1	EXPS-1	

ROOM FINISH SCHEDULE REMARKS

No.	REMARK
1	40% LVT-1 / 40% LVT-2 / 20% LVT-3 RANDOM MIX.
2	50% LVT-1 / 50% LVT-2 RANDOM MIX.
3	NEW BASE AND PAINT ON EXISTING GYP. BD. WALLS.
4	EXISTING CERAMIC TILE TO BE CLEANED AND IS TO REMAIN.
5	PAINT NEW WALLS ONLY.
6	CAP PTWB-1 WITH SCHLUTER STRIP ON WALLS NOT TO RECEIVE WALL TILE.
7	NEW APC-1 PADS PLACED IN EXISTING GRID.
8	VYNYL WALL PROTECTION THIS AREA. PANELS TO BE BUTT SEAMED WITH COLOR MATCHED CAULK AND CAPPED AND EDGED WITH INPRO COLOR MATCHED CAP STRIP.

MATERIAL LEGEND

ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	CONTACT INFO	COLOR	FLAME / SMOKE	REMARKS
BASE							
EX	EXISTING						
PTWB-1	PORCELAIN TILE WALL BASE	DALTILE	CALGARY	VICKI MARCH, 513.5541330	FAWN CG41 MATTE		CUT 12" X 24" FIELD TILE DOWN TO A 6" X 24" TILE.
RB-1	RUBBER BASE - 4"	JOHNSONITE / TARKETT	TSB 469 4 X 120 1/8 TOE	TRISHA ROE-KEEL, 513.207.5309	TA8 WELSH CASTLE CB		
RB-2	RUBBER BASE - 6"	JOHNSONITE / TARKETT	TSB 469 4 X 120 1/8 TOE	TRISHA ROE-KEEL, 513.207.5309	TA8 WELSH CASTLE CB		
CABINETS							
PL-1	PLASTIC LAMINATE	FORMICA	9283	JENNIFER SULLIVAN, 614.264.7768	WALNUT RIFTWOOD		CASEWORK
PL-2	PLASTIC LAMINATE	WILSONART	4942-38	KATIE MASON, 614.971.9636	CRISP LINEN		WORK SURFACES
SSM-1	SOLID SURFACE	LG HAUSYS HI-MAC	G118	MICHELLE ALLEN, 513.214.9939	MOON HAZE		COUNTERTOPS
SSM-2	SOLID SURFACE	INPRO	CUSTOM SHOWER BASE	KRISTI ASHFORD, 513.646.2163	P9009 BONE		SHOWER BASE
SSM-3	SOLID SURFACE	INPRO	PRISM SOLID SURFACE SHOWER WALLS	KRISTI ASHFORD, 513.646.2163	ANGORA P9041		SHOWER WALLS
SSM-4	SOLID SURFACE	LG HAUSYS HI-MAC	HM-BLS-1612	MICHELLE ALLEN, 513.214.9939	ARTIC WHITE		SINK BOWLS
CEILING							
APC-1	ACOUSTIC PANEL CEILING 2' X 2'	ARMSTRONG	686 ANGLED TEGULAR	JEN McCOY 513.919.7429	WHITE	CLASS A	
APC-2	ACOUSTIC PANEL CEILING 2' X 2'	USG SHEETROCK BRAND	LAY-IN GYPSUM CEILING PANELS ITEM # 3260		WHITE	CLASS A	CLEAN ROOM TYPE
EX	EXISTING						
EXPS-1	EXPOSED STRUCTURE						PAINT P-1 U.N.O.
GYB / P	GYPSUM BOARD PAINTED						PAINT P-1 U.N.O.
FLOOR							
CPT-1	CARPET TILE	PATCRAFT	INFRASTRUCTURE	KATIE FINGERS, 513.805.107	ASPHALT 00590, SCAFFOLD 10519	CLASS 1 < 450'	ASHLAR INSTALL
EX	EXISTING						
LVT-1	LUXURY VINYL TILE	INTERFACE	BRUSHED LINES	MAGGIE HERMS, 513.500.9523	MOUSSE A01611	CLASS 1 < 450'	
LVT-2	LUXURY VINYL TILE	INTERFACE	BRUSHED LINES	MAGGIE HERMS, 513.500.9523	SOFT SHADOW A01612	CLASS 1 < 450'	
LVT-2	LUXURY VINYL TILE	INTERFACE	BRUSHED LINES	MAGGIE HERMS, 513.500.9523	ROUGE A01616	CLASS 1 < 450'	
MAT-1	WALK-OFF MAT	PATCRAFT	WALK-RIGHT IN ii I0304	MAGGIE HERMS, 513.500.9523	EBONY 00595	CLASS 1 < 450'	QUARTER TURN INSTALL
MG-1	METAL GRATE						
PT-1	PORCELAIN TILE	DALTILE	CALGARY	VICKI MARCH, 513.5541330	FAWN CG41		12" X 24" FIELD TILE
RTF-1	RUBBER TILE FLOOR	ROPPE	RECOIL		#186 RED	CLASS 1 < 450'	FITNESS ROOM
SPECIALTY							
CG-1	CORNER GUARD	INPRO CORP.	REFER TO F2/A0.06 FOR DETAILS	LESLIE FREDRIC, 513.646.2163	STAINLESS STEEL		4' - 0", INSTALL AT TOP OF BASE.
SSB-1	STAINLESS STEEL BACKSPLASH	STAINLESS SUPPLY	SBW - SUBWAY 3" X 6" MODULAR EMBOSSED	-	STAINLESS STEEL		KITCHEN BACKSPLASH
WALL							
EP-1	EPOXY PAINT	SHERWIN WILLIAMS	SW 7008	ANGIE JULIAN, 317.714.5610	ALABASTER		FIELD PAINT - CMU WALLS
EP-2	EPOXY PAINT	SHERWIN WILLIAMS	SW 7642	ANGIE JULIAN, 317.714.5610	PAVESTONE		ACCENT COLOR
EP-3	EPOXY PAINT	SHERWIN WILLIAMS	SW 6321	ANGIE JULIAN, 317.714.5610	RED BAY		ACCENT COLOR
EP-4	EPOXY PAINT	SHERWIN WILLIAMS	SW 7025	ANGIE JULIAN, 317.714.5610	BACKDROP		HW DOORS AND FRAMES
EX	EXISTING						
P-1	PAINT	SHERWIN WILLIAMS	SW 7008	ANGIE JULIAN, 317.714.5610	ALABASTER		FIELD PAINT
P-2	PAINT	SHERWIN WILLIAMS	SW 7642	ANGIE JULIAN, 317.714.5610	PAVESTONE		ACCENT COLOR
P-3	PAINT	SHERWIN WILLIAMS	SW 6321	ANGIE JULIAN, 317.714.5610	RED BAY		ACCENT COLOR
PWT-1	PORCELAIN WALL TILE	DALTILE	MEDIAN	VICKI MARCH, 513.5541330	WHITE MN40 MATTE		12" X 24" FIELD TILE
PWT-2	PORCELAIN WALL TILE	DALTILE	BEE HIVE MEDLEY	VICKI MARCH, 513.5541330	BLACK P011 MATTE		8 1/2" x 10" HEXAGON
VWP-1	VINYL WALL PROTECTION	INPRO	LEGACY 2402	LESLIE FREDRICK, 513.646.2163	PEBBLE GRAY 0387		

GENERAL NOTES

A. ALL PRODUCTS, AND OVER STOCK, SHALL COME FROM THE SAME DYE-LOT / PRODUCTION RUN TO ENSURE UNIFORMITY.

App Architecture
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615 Woodside Drive, Englewood, Ohio 45322
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www.app-arch.com

STATE OF OHIO TIMOTHY J. BENNETT 12305 REGISTERED ARCHITECT

Timothy J. Bennett License #12305
Expiration Date 12/31/2025

CITY OF DAYTON
DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, Ohio, 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION

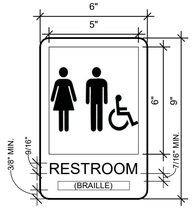
DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

TITLE
FINISH SCHEDULES

SHEET NO.
A0.02

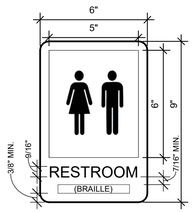
8/1/2025 1:22:11 PM

SIGNAGE LEGEND



UNISEX RESTROOM - TYPE 1

3" = 1'-0"



UNISEX RESTROOM - TYPE 2

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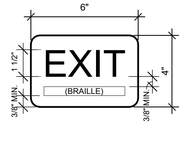


EXIT SIGN - TYPE 3

3" = 1'-0"

SIGN NOTES

A. ALL SIGNS SHALL HAVE BRAILLE LETTERING BENEATH TEXT, TYPICAL.

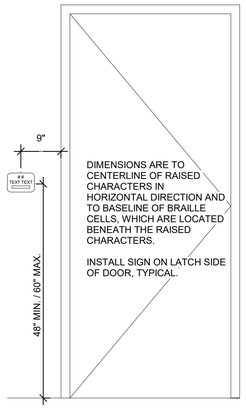
B. SIGNS MOUNTED ON GLASS AT DOOR NEED TO BE MOUNTED WITH ADHESIVE AND MATCHING BACKER PLATE FOR OTHER SIDE OF GLASS.

C. TEXT AND GRAPHICS TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH BACKGROUND. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

D. BACKGROUND TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH TEXT AND GRAPHICS. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

E. 1/2" RADIUS CORNERS.

F. ALL TEXT ON SIGNS LOCATED NEXT TO INTERIOR DOORS WILL BE 1/32" RAISED CHARACTERS, UPPERCASE, AND VIEWABLE AT LESS THAN 6 FEET.



SIGNAGE LOCATION

3/4" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR No.	ROOM NAME	HDW. SET	HDW. FUNCTION	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR MAT.	DOOR TYPE	DOOR FIN.	DOOR U/C	FRAME MAT.	FRAME TYPE	FRAME FIN.	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE RTG.	REMARKS
101A	REPORT	1	PASSAGE	3' - 0"	7' - 0"	2"	WD	EXIST	STAIN		HM	EXIST	EP-4	-	-	-	-	1
101B	REPORT	2	PASSAGE	2' - 8"	7' - 0"	1 3/4"	HM	EXIST	EP-4		HM	EXIST	EP-4	-	-	-	-	2
102A	LOBBY	-	-	3' - 0"	7' - 10"	1 3/4"	ALUM	EXIST	-		ALUM	EXIST	-	-	-	-	-	3, 7
102B	LOBBY	1	PASSAGE	3' - 0"	7' - 0"	1 3/4"	HM	EXIST	EP-4		HM	EXIST	EP-4	-	-	-	-	2
103	LT. DORM	4	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	EXIST	STAIN		HM	EXIST	EP-4	-	-	-	-	1
104A	TLT/ SHR	3	PRIVACY	2' - 8"	7' - 0"	1 3/4"	WD	EXIST	STAIN		HM	EXIST	EP-4	-	-	-	-	1, 6
104B	TLT/ SHR	3	PRIVACY	2' - 8"	7' - 0"	1 3/4"	WD	EXIST	STAIN		HM	EXIST	EP-4	-	-	-	-	1, 6
105	LT OFFICE	3	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	EXIST	STAIN		HM	EXIST	EP-4	-	-	-	-	1
106	SUPPLY	-		2' - 8"	7' - 0"	1 3/4"	HM	EXIST	-		HM	EXIST	-	-	-	-	-	3
107	SUPPLY	-		3' - 0"	7' - 0"	1 3/4"	HM	EXIST	-		HM	EXIST	-	-	-	-	-	3
108	TLT.	3	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	EXIST	STAIN		HM	EXIST	EP-4	-	-	-	-	1, 6
109A	APPARATUS BAY 1	6	PASSAGE	3' - 0"	7' - 0"	1 3/4"	HM	EXIST	EP-4		HM	EXIST	EP-4	-	-	-	-	2
109B	DAYROOM	11	STOREROOM	3' - 0"	7' - 0"	1 3/4"	ALUM	AL1	BRONZE		ALUM	-	BRONZE	F1/A0.05	F6/A0.05	F3/A0.05	-	
110.1C	APPARATUS BAY 1	-		3' - 0"	7' - 0"	1 3/4"	HM	EXIST	-		HM	EXIST	-	-	-	-	-	3
110.1D	APPARATUS BAY 1	-		3' - 0"	7' - 0"	1 3/4"	WD	EXIST	-		HM	EXIST	-	-	-	-	-	3
111	MECH.	-		3' - 0"	7' - 0"	1 3/4"	HM	EXIST	-		HM	EXIST	-	-	-	-	-	3
112	HOSE DRYING TOWER	-		3' - 0"	7' - 0"	1 3/4"	HM	EXIST	-		HM	EXIST	-	-	-	-	-	3
113A	HALL	6A	PASSAGE	3' - 0"	7' - 0"	1 3/4"	WD	NL2	STAIN		HM	2	EP-4	E1/A0.05	E3/A0.05	-	90 MIN.	
113B	HALL	6B	PASSAGE	3' - 4"	7' - 0"	1 3/4"	HM	148	EP-4		HM	2	EP-4	C1/A0.05	C3/A0.05	-	90 MIN.	
113C	HALL	10	STOREROOM	3' - 0"	7' - 0"	1 3/4"	HM	F1	EP-4		HM	2	EP-4	B6/A5.01	D5/A5.01			7
114	KITCHEN	6	PASSAGE	3' - 0"	7' - 0"	1 3/4"	HM	EXIST	EP-4		HM	EXIST	EP-4	-	-	-	-	2
115	LKR ROOM	7	PASSAGE	3' - 0"	7' - 0"	1 3/4"	WD	F1	EP-4		HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	-	
116	LAUNDRY	5	PASSAGE	3' - 0"	6' - 8"	1 3/4"	WD	F1	STAIN		-	-	EP-4	B1/A0.06	B3/A0.06		-	8
117	TLT/ SHR	3	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	-	6
118	TLT/ SHR	3	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	-	5
119	TLT/ SHR	3	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	-	5
120	ADA DORM	9	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	45 MIN.	
120A	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
120B	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
120C	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
121	ADA DORM	9	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	45 MIN.	
121A	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
121B	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
121C	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
122	ADA DORM	9	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	45 MIN.	
122A	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
122B	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
122C	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
123	DORM	9	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	45 MIN.	
123A	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
123B	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
123C	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
124	DORM	9	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	45 MIN.	
124A	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
124B	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
124C	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
125	DORM	9	PRIVACY	3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN		HM	1	EP-4	B1/A0.05	B3/A0.05	B4/A0.05	45 MIN.	
125A	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
125B	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	2
125C	HALL	12	STOREROOM	1' - 8"	6' - 0"	1 3/4"	WD	F1	STAIN		HM	3	EP-4	D4 / D6/A8.02	B3/A0.05 SIM	D4 / D6/A8.02	45 MIN.	
126	DECON	8	PASSAGE	3' - 8"	7' - 0"	1 3/4"	HM	NL2	EP-4		HM	2	EP-4	B6/A0.05	D6/A0.05	-	90 MIN.	
127	FITNESS	8	PASSAGE	3' - 0"	7' - 0"	1 3/4"	HM	NL2	EP-4		HM	2	EP-4	B6/A0.05	D6/A0.05	-	90 MIN.	
128A	VEST.	-		3' - 0"	7' - 10"	1 3/4"	ALUM	EXIST	-		ALUM	-	-	-	-	-	-	3, 6
128B	VEST.	-		3' - 0"	7' - 10"	1 3/4"	ALUM	EXIST	-		ALUM	-	-	-	-	-	-	3
201	TOG/ STORAGE	-		2' - 6"	7' - 0"	1 3/4"	HM	EXIST	EP-4		HM	EXIST	EP-4	-	-	-	-	4
301	MECH.	-		3' - 0"	7' - 0"	1 3/4"	HM	EXIST	EP-4		HM	EXIST	EP-4	-	-	-	-	4
302	MECH.	-		3' - 0"	7' - 0"	1 3/4"	HM	EXIST	EP-4		HM	EXIST	EP-4	-	-	-	-	4

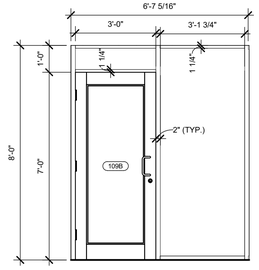
DOOR REMARKS

No.	REMARK
1	EXISTING WOOD DOOR. REMOVE DOOR, REFINISH TO MATCH NEW DOORS, REHANG DOOR WITH NEW HARDWARE.
2	EXISTING HM DOOR. REMOVE DOOR, PREP FOR PAINT, PAINT DOOR, AND REHANG WITH NEW HARDWARE.
3	NO NEW WORK THIS DOOR.
4	PAINT INTERIOR OF DOOR AND FRAME ONLY. NOT OTHER NEW WORK THIS DOOR.
5	SIGN TYPE 1 THIS DOOR.
6	SIGN TYPE 2 THIS DOOR.
7	SIGN TYPE 3 THIS DOOR.
8	DOOR BASIS OF DESIGN: AD SYSTEMS, FIRESLIDE SLIDING DOOR SYSTEM. HARDWARE BY DOOR MANUFACTURER.

ALL DOORS IN THE BUILDING ARE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT TO OPERATE.

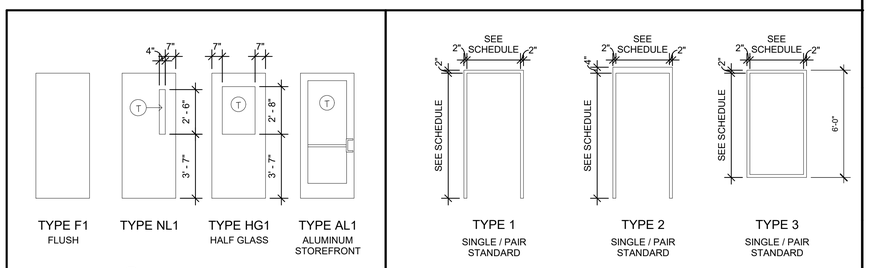
STOREFRONT SCHEDULE

TYPE	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	JAMB	HEAD	SILL	HEAD HEIGHT	COMMENTS
SF-1	6' - 7 3/4"	8' - 0"	F6/A0.05	F1/A0.05	F3/A0.05	8' - 0"	



F3 SF-1

3/8" = 1'-0"



DOOR ELEVATIONS

FRAME ELEVATIONS

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STATE OF OHIO TIMOTHY J. BENENT REGISTERED ARCHITECT 12305

Timothy J. Benent License #12305
Expiration Date 12/31/2025

CITY OF DAYTON
DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, Ohio 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION
1	10/08/2025	ADDENDUM 2
2	11/11/2025	CODE REVISIONS

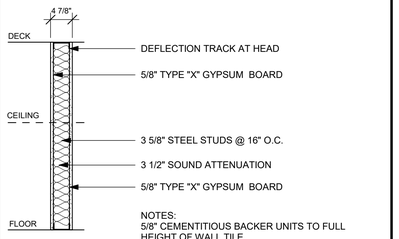
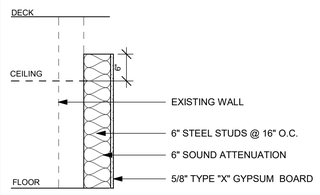
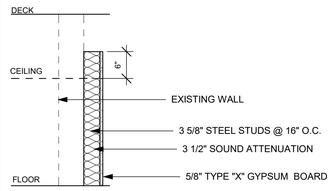
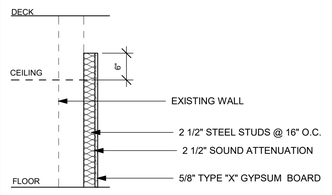
DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

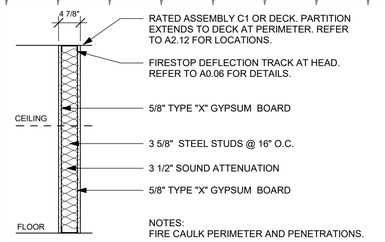
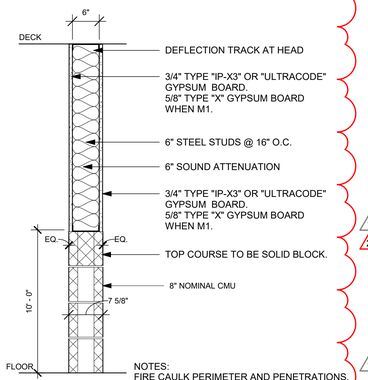
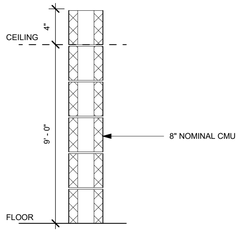
TITLE
DOOR SCHEDULES

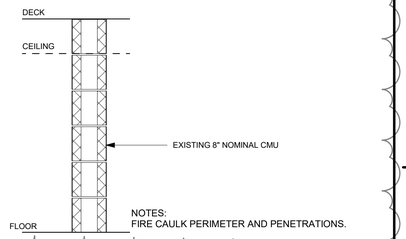
SHEET NO.
A0.03

11/14/2025 4:01:12 PM

INTERIOR WALL TYPES SCHEDULE

TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
A1	3 5/8"	- -	
B1	6 5/8"		
B2	3 5/8"		
B3	2 1/2"		

TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
F1	3 5/8"	1 HR. FIRE PARTITION UL NO. V438	
M1 F3	6" 7 5/8"	2 HR. FIRE BARRIER UL NO. U4103 2 HR. FIRE BARRIER UL NO. U905	
M2	7 5/8"		

TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
F2	7 5/8"	2 HR. UL NO. U905 EQUIVALENT	

GENERAL NOTES

A. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHALL BE USED BEHIND ALL SINKS, SERVICE SINKS AND SHOWER AREAS. EXTEND MINIMUM 24" BEYOND PLUMBING FIXTURES. FIRE RATINGS MUST BE MAINTAINED ON RATED PARTITIONS WITH TYPE X MOISTURE/MOLD RESISTANT GYPSUM BOARD WITH A LISTED PRODUCT IN THE UL DESIGN TO RETAIN COMPLIANCE WITH THE UL ASSEMBLY.

B. PROVIDE & INSTALL DEFLECTION TRACK AT ALL INTERIOR WALLS THAT EXTEND TO DECK.

C. UL TEST NUMBERS FOR INTERIOR PARTITIONS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED. MAINTAIN RATING AND ADVISE IF WALL THICKNESS WILL CHANGE.

D. DRYWALL CONTRACTOR TO PAINT WALL RATINGS LABELS AT MAXIMUM 12 FEET O.C. ON ALL FIRE RATED PARTITIONS. LABEL TO BE PAINTED ABOVE CEILING WITH A STENCIL MIN. OF 4 INCHES IN HEIGHT, BLACK COLOR.

E. FIRE RATED PARTITIONS ARE TO BE CONSTRUCTED TIGHT TO THE DECK OR RATED CEILING ASSEMBLY C1, PIPING AND OTHER PENETRATIONS. ALL PENETRATIONS AND PERIMETER OF WALLS TO BE FIRE CAULKED.

F. STEEL STUD PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.

G. REFER TO FLOOR PLANS FOR LOCATIONS OF INTERIOR PARTITION TYPES.

H. REFER TO SHEET A0.06 FOR TYPICAL INTERIOR PARTITIONS DETAILS.

I. ALL PARTITIONS SCHEDULED RECEIVE WALL TILE SHALL HAVE CEMENTITIOUS BACKER UNIT TO FULL HEIGHT OF WALL TILE.

J. ALL PENETRATIONS IN FIRE RATED PARTITIONS SHALL BE FIRESTOPPED, WHETHER THEY ARE NEW OR EXISTING. INCLUDING THOSE CREATED BY THE REMOVAL OF AN EXISTING PENETRATING ITEM. FIRESTOPPING SYSTEMS SHALL BE FM OR U.L. LABORATORY APPROVED PRODUCTS.

K. APPLY ACOUSTICAL SEALANT AT ENTIRE PERIMETER OF ALL GYPSUM BOARD PARTITIONS.

L. EXISTING BUILDING FLOOR TO FLOOR HEIGHTS FOR AREAS OF WORK:

- BASEMENT TO FIRST FLOOR: 10'-0"
- FIRST FLOOR TO SECOND FLOOR: 12'-0"
- SECOND FLOOR TO THIRD FLOOR: 10'-0"
- THIRD FLOOR TO ROOF: 10'-8"

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ISSUE

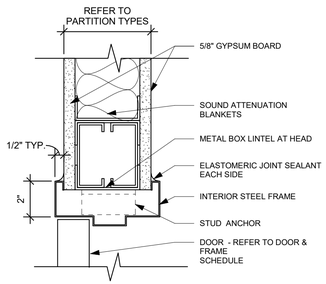
NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION
1	10/08/2025	ADDENDUM 2
2	11/11/2025	CODE REVISIONS

DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

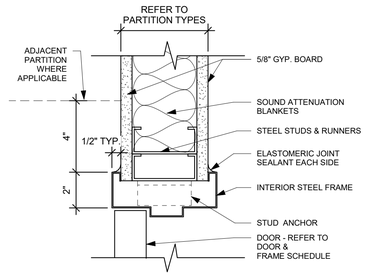
TITLE
WALL TYPES

SHEET NO.
A0.04

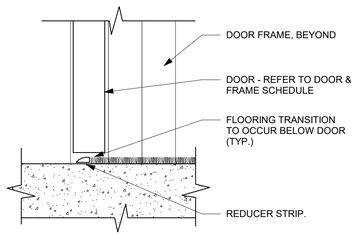
11/14/2025 4:01:13 PM



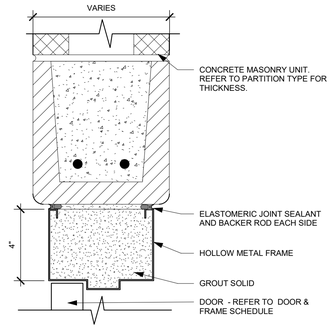
B1 TYP. INTERIOR DOOR HEAD DETAIL
3" = 1'-0"



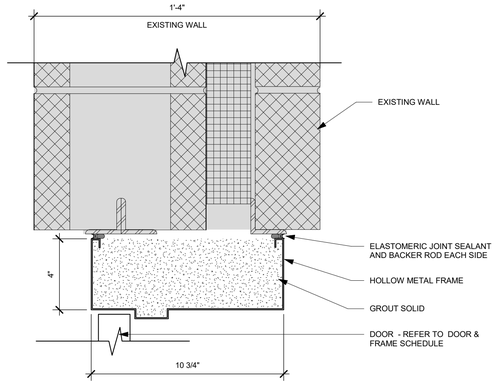
B3 TYP. INTERIOR DOOR JAMB DETAIL
3" = 1'-0"



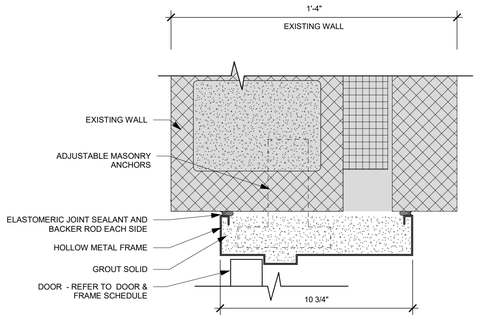
B4 TYP. INTERIOR DOOR SILL DETAIL
3" = 1'-0"



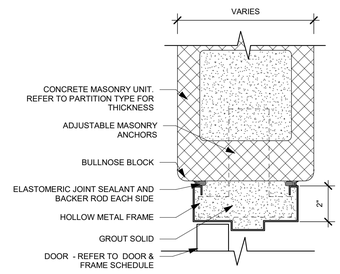
B6 HEAD DETAIL (CMU)
3" = 1'-0"



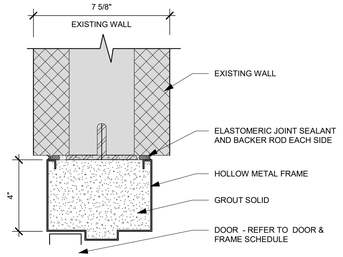
C1 HEAD DETAIL (EXISTING APP BAY CMU WALL)
3" = 1'-0"



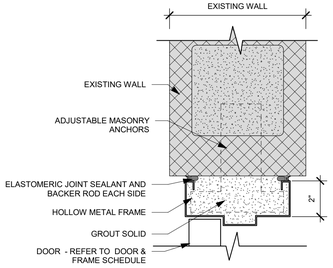
C3 JAMB DETAIL (EXISTING APP BAY CMU WALL)
3" = 1'-0"



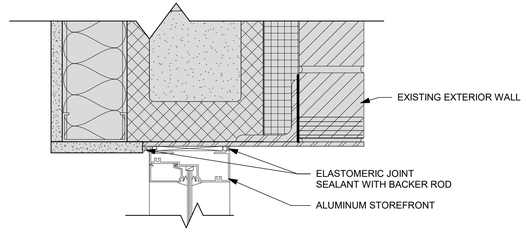
D6 DOOR JAMB DETAIL (CMU)
3" = 1'-0"



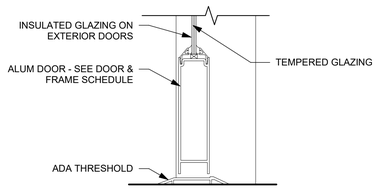
E1 HEAD DETAIL (EXISTING INTERIOR CMU WALL)
3" = 1'-0"



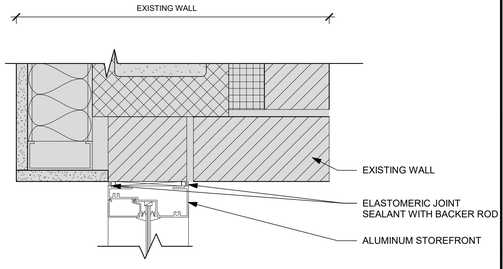
E3 JAMB DETAIL (EXISTING INTERIOR CMU WALL)
3" = 1'-0"



F1 HEAD DETAIL - CMU WALL W/ STUD WALL (STOREFRONT)
3" = 1'-0"



F3 SILL DETAIL - STOREFRONT DOOR
3" = 1'-0"



F6 JAMB DETAIL - CMU WALL W/ STUD WALL (STOREFRONT)
3" = 1'-0"

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ISSUE

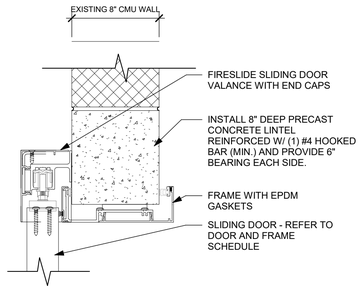
NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION

DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

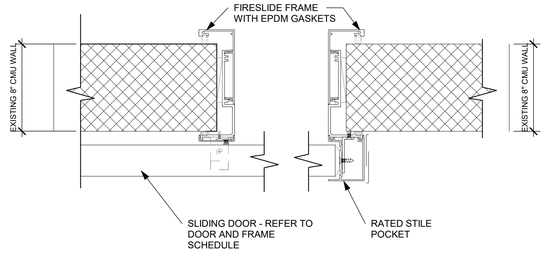
TITLE
DOOR DETAILS

SHEET NO.
A0.05

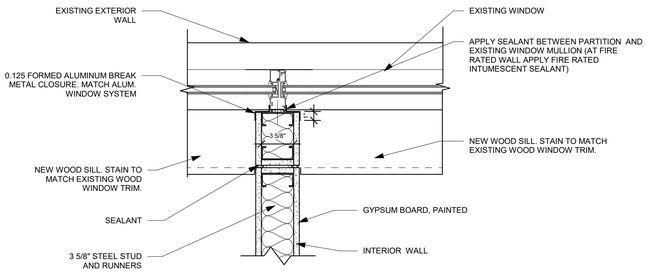
8/1/2025 1:22:14 PM



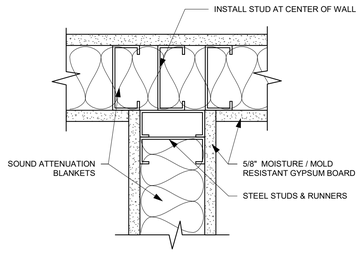
B1 SLIDING DOOR HEAD DETAIL
3" = 1'-0"



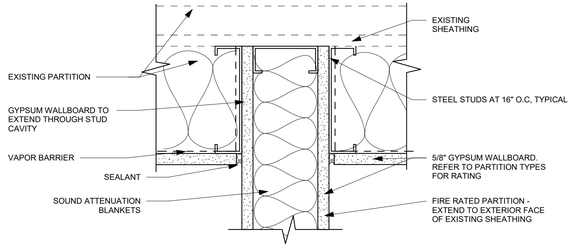
B3 SLIDING DOOR JAMB DETAIL
3" = 1'-0"



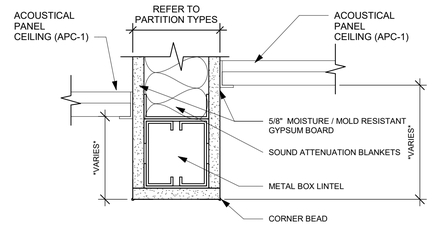
B6 WALL TO WINDOW DETAIL - FIRE RATED
1 1/2" = 1'-0"



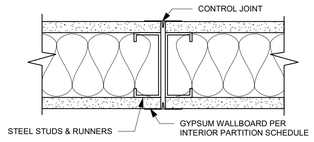
C1 TYP. GWB WALL INTERSECTION
3" = 1'-0"



C2 TYP. INT. PARTITION INTERSECTION WITH EXT. WALL - FIRE RTD.
3" = 1'-0"

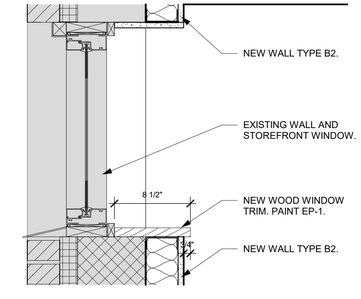


C5 TYP. BULKHEAD DETAIL
3" = 1'-0"

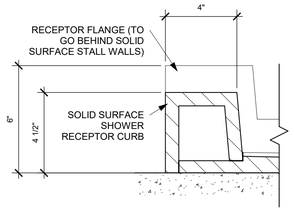


NOTE: EXPANSION JOINTS TO OCCUR EVERY 20'-0" OF UNINTERRUPTED WALL LENGTH.

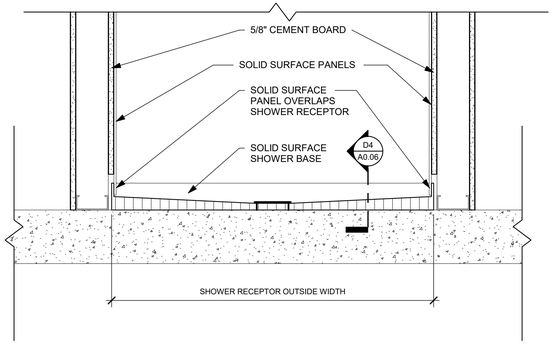
C6 TYP. GWB EXPANSION DETAIL
3" = 1'-0"



E3 WINDOW SILL DETAIL
1 1/2" = 1'-0"

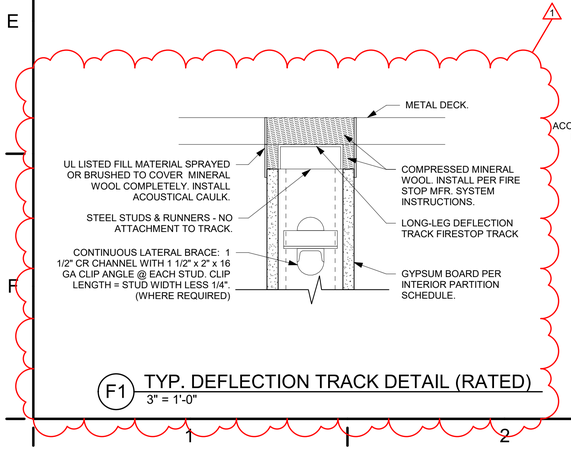


D4 CURB STYLE SHOWER CURB SECTION
3" = 1'-0"

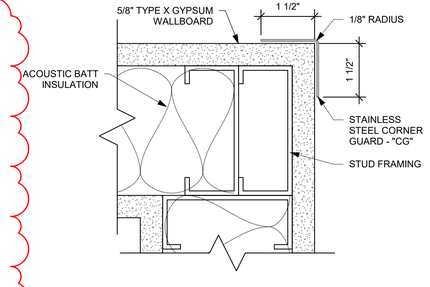


REFER TO SHOWER ENCLOSURE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR WALL FRAMING DIMENSIONS AROUND SHOWER ENCLOSURE.

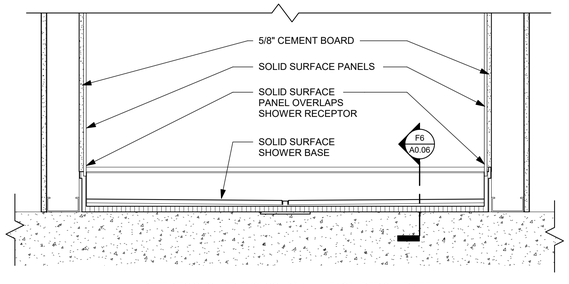
D6 CURB STYLE SHOWER RECEPTOR DETAIL
1 1/2" = 1'-0"



F1 TYP. DEFLECTION TRACK DETAIL (RATED)
3" = 1'-0"

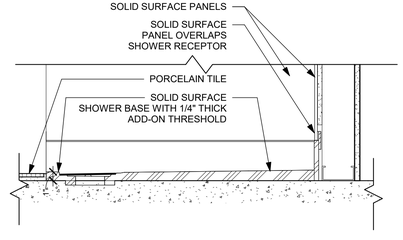


F2 CG-1 CORNER GUARD
6" = 1'-0"



REFER TO SHOWER ENCLOSURE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR WALL FRAMING DIMENSIONS AROUND SHOWER ENCLOSURE.

F4 ADA RECEPTOR DETAIL
1 1/2" = 1'-0"



F6 ADA SHOWER RECEPTOR SECTION
1 1/2" = 1'-0"

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ISSUE

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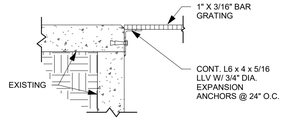
	08/01/25	FOR CONSTRUCTION
1	10/08/2025	ADDENDUM 2

DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

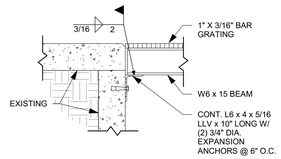
TITLE
INTERIOR DETAILS

SHEET NO.
A0.06

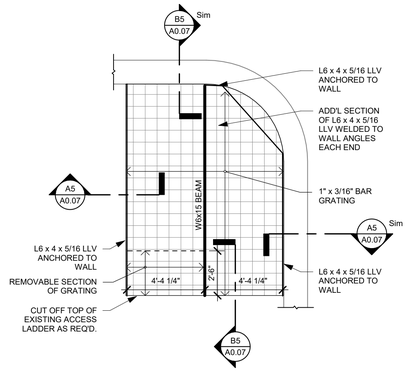
10/9/2025 10:46:59 AM



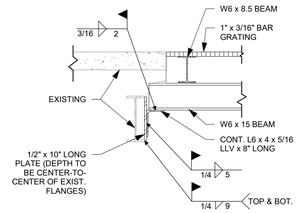
A5 BAR GRATE SECTION A
3/4" = 1'-0"



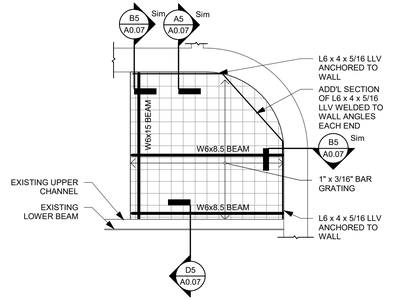
B5 BAR GRATE SECTION B
3/4" = 1'-0"



B6 PARTIAL ENLARGED BASEMENT PLAN
1/4" = 1'-0"



D5 BAR GRATE SECTION C
3/4" = 1'-0"



D6 PARTIAL ENLARGED LEVEL 1 PLAN
1/4" = 1'-0"

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DATE	08/01/25
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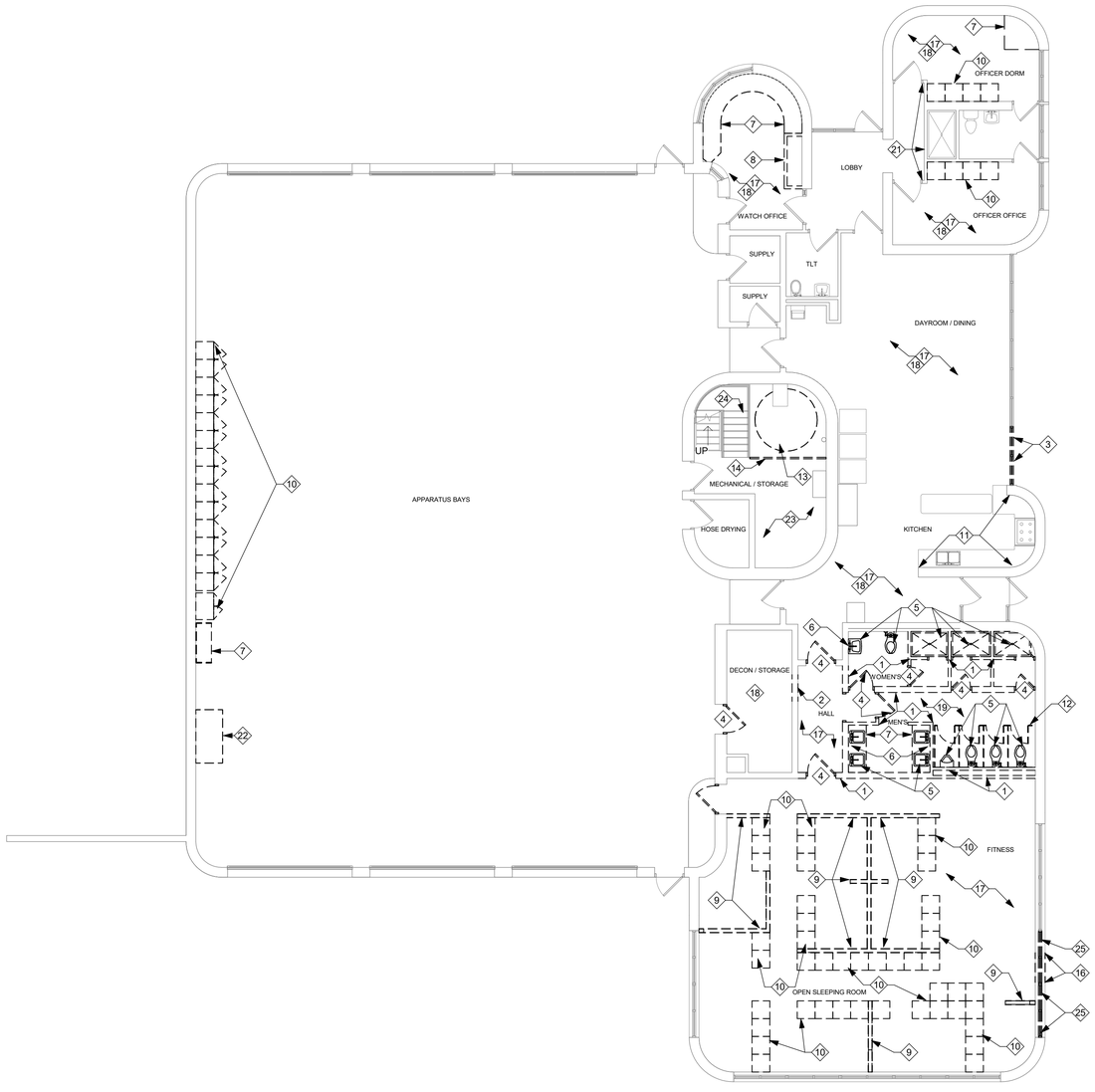
DRAWN	AEE
CHECKED	CMS/TJB

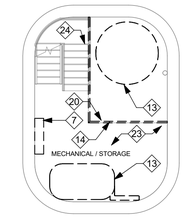
TITLE
INTERIOR DETAILS- BAR GRATE INFILL

SHEET NO.
A0.07

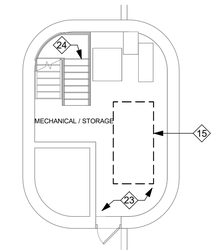
8/1/2025 1:22:15 PM



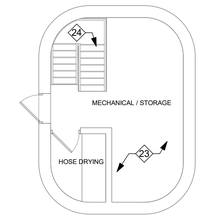
E1 DEMOLITION FLOOR PLAN - LEVEL 1
1/8" = 1'-0"



B5 DEMOLITION FLOOR PLAN - BASEMENT
1/8" = 1'-0"



C5 DEMOLITION FLOOR PLAN - LEVEL 2
1/8" = 1'-0"



E5 DEMOLITION FLOOR PLAN - LEVEL 3
1/8" = 1'-0"

DEMOLITION NOTES

(00) INDICATES DEMOLITION NOTE.

1 REMOVE PORTION OF EXISTING CMU WALL IN PREPARATION FOR NEW CONSTRUCTION.

2 REMOVE PORTION OF EXISTING WALL IN PREPARATION FOR NEW DOOR..

3 REMOVE PORTION OF EXISTING STOREFRONT GLAZING SYSTEM IN PREPARATION FOR NEW DOOR.

4 REMOVE EXISTING DOOR AND FRAME.

5 REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DRAWINGS.

6 REMOVE EXISTING TOILET ACCESSORIES.

7 REMOVE EXISTING CASEWORK.

8 REMOVE EXISTING MURPHY BED AND SURROUNDING CASEWORK.

9 REMOVE EXISTING SLEEPING ROOM PARTITIONS.

10 REMOVE EXISTING LOCKERS.

11 REMOVE EXISTING TILE BACKSPLASH.

12 REMOVE EXISTING TOILET PARTITIONS.

13 REMOVE EXISTING SOLAR HOT WATER TANK AND ASSOCIATED ABANDONED PLUMBING. REFER TO PLUMBING DRAWINGS.

14 REMOVE EXISTING RAILING.

15 REMOVE EXISTING AIR HANDLER. REFER TO HVAC DRAWINGS.

16 REMOVE PORTION OF EXISTING WALL AND STOREFRONT WINDOW IN PREPARATION FOR NEW DOOR.

17 REMOVE EXISTING LVT/ VCT FLOORING. PREP. AND LEVEL CONCRETE SLAB FOR NEW FLOORING.

18 PREP. EXISTING GYP. BD./ CMU WALLS FOR NEW FINISH.

19 REMOVE EXISTING TILE FLOORING. PREP. AND LEVEL CONCRETE SLAB FOR NEW FLOORING.

20 CUT LADDER OFF LEVEL WITH FLOOR.

21 REMOVE WALL COVERING. PREP. GYP. BD. WALL FOR PAINT.

22 EXISTING GENERATOR TO BE REMOVED. REFER TO ELECTRICAL DRAWINGS.

23 PREPARE CMU WALLS FOR NEW PAINT.

24 PREPARE METAL STAIRCASE AND RAILING FOR NEW PAINT.

25 REMOVE PORTION OF EXISTING STOREFRONT WINDOW.

GENERAL NOTES

A. DASHED LINES INDICATE BUILDING ELEMENTS, MATERIALS AND EQUIPMENT TO BE REMOVED.

B. DURING DEMOLITION AND RECONSTRUCTION, ATTENTION MUST BE GIVEN TO MAINTAINING AND PRESERVING THE STRUCTURAL INTEGRITY OF THE BUILDING. IF ANY UNFORESEEN SITUATION DEVELOPS, NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.

C. PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY THE OWNER AND ARCHITECT OF AND DISCREPANCIES.

D. RENOVATION WORK IS EXTENSIVE THROUGHOUT AREA OF WORK. ACCESSORIES IN MULTIPLE INSTANCES ARE TO BE REMOVED. CONTACT ARCHITECT IF ANY QUESTIONS.

E. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.

F. REFER TO PLUMBING, HVAC & ELECTRICAL DRAWINGS FOR OTHER ITEMS THAT NEED TO BE REMOVED.

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Timothy J. Bennett License #12305
Expiration Date 12/31/2025

CITY OF DAYTON
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STATION 15
2801 Wayne Ave, Dayton, Ohio, 45420

ISSUE

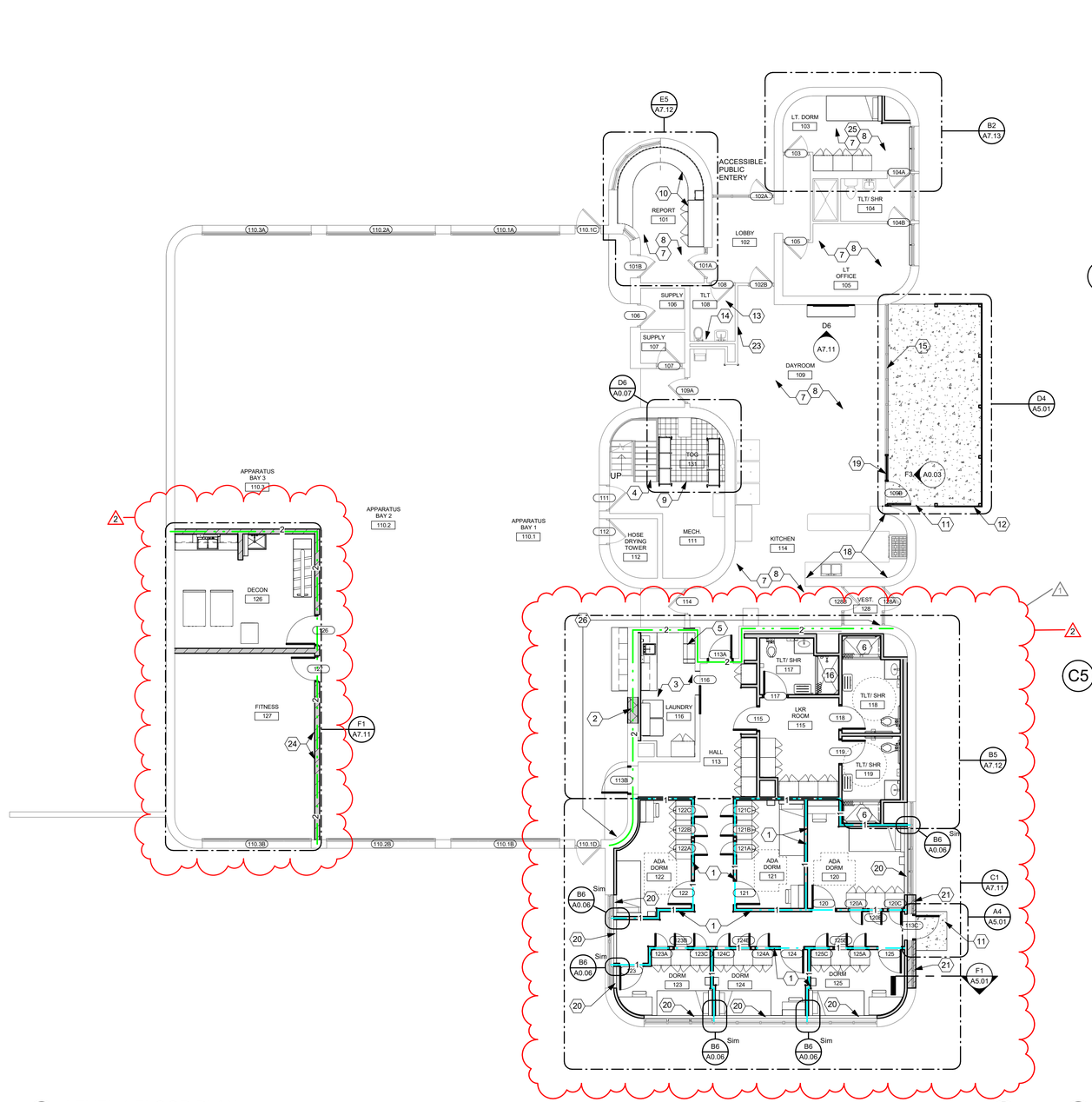
NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION

DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

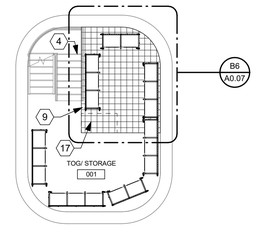
TITLE
DEMOLITION PLAN

SHEET NO.
A1.11

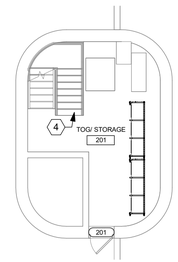
8/1/2025 1:22:17 PM



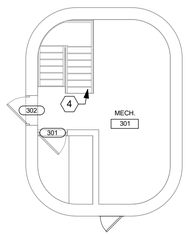
E1 LEVEL 1 FLOOR PLAN
1/8" = 1'-0"



B5 BASEMENT FINISH FLOOR PLAN
1/8" = 1'-0"



C5 LEVEL 2 FINISH FLOOR PLAN
1/8" = 1'-0"



E5 LEVEL 3 FINISH FLOOR PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 1 HOUR RATED PARTITION AROUND R-2 USE AS INDICATED. RATED PARTITIONS EXTEND FROM TOP OF FLOOR TO UNDERSIDE OF ROOF DECK. REFER TO SHEET A0.04 FOR RATED ASSEMBLY DETAILS.

2 NEW WALL INFILL. MATCH ADJACENT EXISTING WALL. (12" AND 4" CMU INFILL).

3 INFILL FLOOR 6" WITH FRT WOOD STRINGERS AND PLYWOOD TO MATCH STATION FLOOR LEVEL.

4 PAINT METAL STAIRCASE AND RAILING EP-4.

5 ADJUSTABLE SHELVES. REFER TO CASEWORK DETAILS.

6 36" X 60" ADA SHOWER BASE.

7 ROOM TO RECEIVE NEW FLOORING. REFER TO ROOM FINISH SCHEDULE.

8 ROOM TO RECEIVE NEW PAINT. REFER TO ROOM FINISH SCHEDULE.

9 INFILL FLOOR WITH STEEL GRATE FLOOR.

10 NEW PLASTIC LAMINATE COUNTER AND CASEWORK.

11 NEW CONCRETE SLAB ON GRADE. REFER TO SHEET A5.01 FOR DETAILS.

12 NEW WOOD PATIO WALL. REFER TO SHEET A5.01 FOR DETAILS.

13 CLEAN CLEAN GROUT AND TILES ON FLOOR AND WALLS.

14 REPAINT WOOD GRAIN LIGHT FIXTURE P-1

15 PROVIDE AND INSTALL PERFORATED WINDOW DECALS ON EXTERIOR OF STOREFRONT. ENTIRE GLAZED AREA TO BE COVERED. 8'-0" x 26'-0" DIVIDED INTO (8) SECTIONS. ART SELECTED BY OWNER. BASIS OF DESIGN: SIGNS.COM, PERFORATED WINDOW DECALS WITH PROTECTIVE LAMINATE.

16 36" X 60" CURB STYLE SHOWER BASE.

17 ACESS HATCH IN STEEL GRATE FLOOR AT LADDER.

18 REPLACE TILE BACKSPLASH WITH SSB-1.

19 NEW STOREFRONT AND DOOR TO MATCH EXISTING.

20 NEW WINDOW SILL. REFER TO DETAIL E3/A0.06.

21 INFILL EXTERIOR WALL WHERE STOREFRONT HAS BEEN REMOVED. REFER F1/A5.01 FOR DETAILS.

23 STATION CREST VINYL WALL GRAPHIC LOCATION. 48" X 48". ART TO BE SUPPLIED BY OWNER.

24 42" X 84" FRAMELESS MIRROR. MOUNT TO WALL @ 6" A.F.F.

2 25 THIS ROOM TO BE SUPPRESSED.

2 26 ENTIRE AREA SOUTH EAST OF THE 2 HR PARTITION TO BE SUPPRESSED. REFER TO FIRE SUPPRESSION DRAWINGS FOR DETAILS.

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS TO BE CONSTRUCTED TO DECK ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

F. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

G. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

I. FURNITURE SHOWN FOR REFERENCE ONLY.

J. REFER TO ENLARGED PLANS FOR ADDITIONAL DETAILS.

2 K. SEAL ALL PENETRATIONS IN EXISTING WALLS TO HAVE A RATING EQUIVALENCE TO ACHIEVE THE STATED RATING.

FIRE BARRIER LEGEND

SMOKE RESISTIVE	
1	1 HR. FIRE PARTITION
1S	1 HR. FIRE/SMOKE BARRIER
2	2 HR. FIRE BARRIER
2S	2 HR. FIRE/SMOKE BARRIER
3	3 HR. FIRE BARRIER

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1	10/08/2025	ADDENDUM 2
2	11/11/2025	CODE REVISIONS

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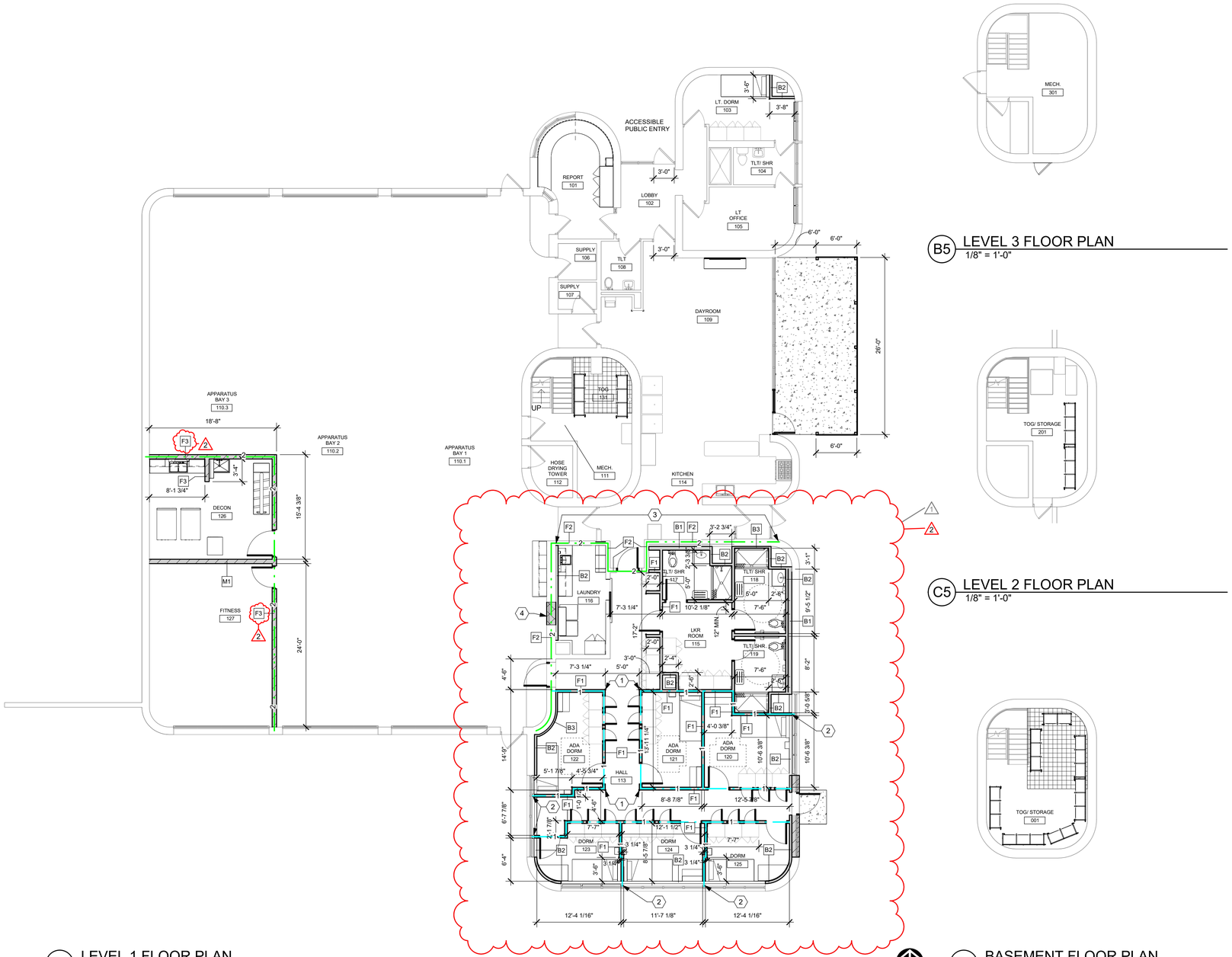
TITLE
REFERENCE PLANS

SHEET NO.
A1.12

11/14/2025 4:01:19 PM



E1 LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

B5 LEVEL 3 FLOOR PLAN
1/8" = 1'-0"

C5 LEVEL 2 FLOOR PLAN
1/8" = 1'-0"

E5 BASEMENT FLOOR PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 ALIGN

2 INTENTION IS FOR NEW PARTITIONS TO INTERSECT WINDOW MULLIONS TO ACHIEVE 30 MINUTE FIRE RATING BETWEEN NEW DORM ROOMS. REVIEW ANY DISCREPANCIES WITH ARCHITECT DURING FRAMING LAYOUT.

3 CONSTRUCT NEW WALL (TYPE F1) FROM TOP OF EXISTING CMU WALL UP TO DECK TO CREATE A 1 HOUR FIRE PARTITION.

2 4 INFILL TO MATCH EXISTING. 8" CMU AND 4" CMU.

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS TO BE CONSTRUCTED TO DECK ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

F. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

G. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

I. FURNITURE SHOWN FOR REFERENCE ONLY.

J. REFER TO ENLARGED PLANS FOR ADDITIONAL DETAILS.

K. SEAL ALL PENETRATIONS IN EXISTING WALLS TO HAVE A RATING EQUIVALENCE TO ACHIEVE THE STATED RATING.

FIRE BARRIER LEGEND

- SMOKE RESISTIVE
- 1 — 1 HR. FIRE PARTITION
- 1S — 1 HR. FIRE/SMOKE BARRIER
- 2 — 2 HR. FIRE BARRIER
- 2S — 2 HR. FIRE/SMOKE BARRIER
- 3 — 3 HR. FIRE BARRIER

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CHECKED	CMS/TJB

TITLE
DIMENSION PLANS

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A1.13

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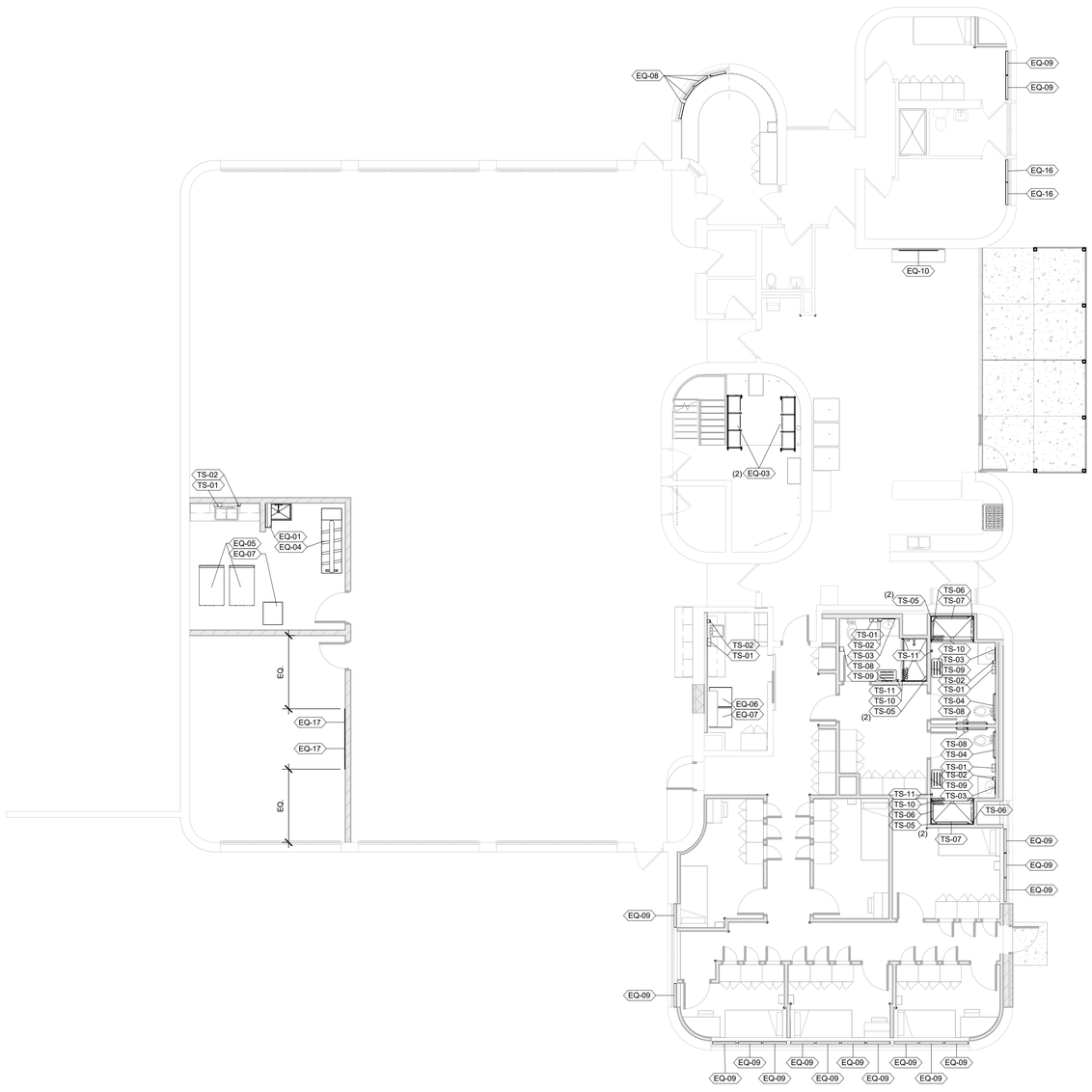
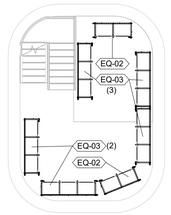
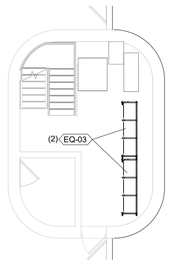


F1 LEVEL 1 FLOOR PLAN
1/8" = 1'-0"



B5 BASEMENT FLOOR PLAN
1/8" = 1'-0"



D5 LEVEL 2 FLOOR PLAN
1/8" = 1'-0"

F5 LEVEL 3 FLOOR PLAN
1/8" = 1'-0"

EQUIPMENT SCHEDULE CFCI		
TYPE	DESCRIPTION	COMMENTS
EQ-01	MOP HANGER WITH OVERSHELF	REFER TO SPECIFICATIONS
EQ-08	ROOM DARKENING ROLL SHADE	REFER TO SPECIFICATIONS
EQ-09	BLACKOUT ROLL SHADE	REFER TO SPECIFICATIONS
EQ-16	ROOM DARKENING ROLL SHADE	REFER TO SPECIFICATIONS
EQ-17	3' - 6" X 7' - 0" MIRROR	REFER TO SPECIFICATIONS
TS-03	MIRROR, WALL - 18" X 36"	REFER TO SPECIFICATIONS
TS-04	GRAB BAR, STAINLESS STEEL, (3) PIECE ASSEMBLY, 18" x 1.5" DIA. 42" x 1.5" DIA	REFER TO SPECIFICATIONS
TS-05	SOAP DISH, CORNER	<varies>
TS-06	GRAB BAR, STAINLESS STEEL 30" x 1.5" DIA.	REFER TO SPECIFICATIONS
TS-07	GRAB BAR, STAINLESS STEEL 48" x 1.5" DIA.	REFER TO SPECIFICATIONS
TS-08	TOILET TISSUE DISPENSER	REFER TO SPECIFICATIONS
TS-09	SEAT, FOLDING	REFER TO SPECIFICATIONS
TS-10	SHOWER ROD AND CURTAIN	REFER TO SPECIFICATIONS
TS-11	ROBE HOOK	MOUNT @ 4' - 6" A.F.F.

EQUIPMENT SCHEDULE OFCI		
TYPE	DESCRIPTION	COMMENTS
EQ-02	MOBILE TURN OUT GEAR LOCKERS 24" X 20", 2 PACK	
EQ-03	MOBILE TURN OUT GEAR LOCKERS 24" X 20", 3 PACK	
EQ-05	DECON GEAR WASHER	
EQ-06	RESIDENTIAL CLOTHES WASHER	
EQ-07	RESIDENTIAL CLOTHES DRYER	
EQ-10	60" SMART TV	
TS-01	PAPER TOWEL DISPENSER	
TS-02	SOAP DISPENSER	

EQUIPMENT SCHEDULE OFOI		
TYPE	DESCRIPTION	COMMENTS
EQ-04	DECON GEAR DRYER	

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TITLE
EQUIPMENT PLAN

SHEET NO.
A1.14

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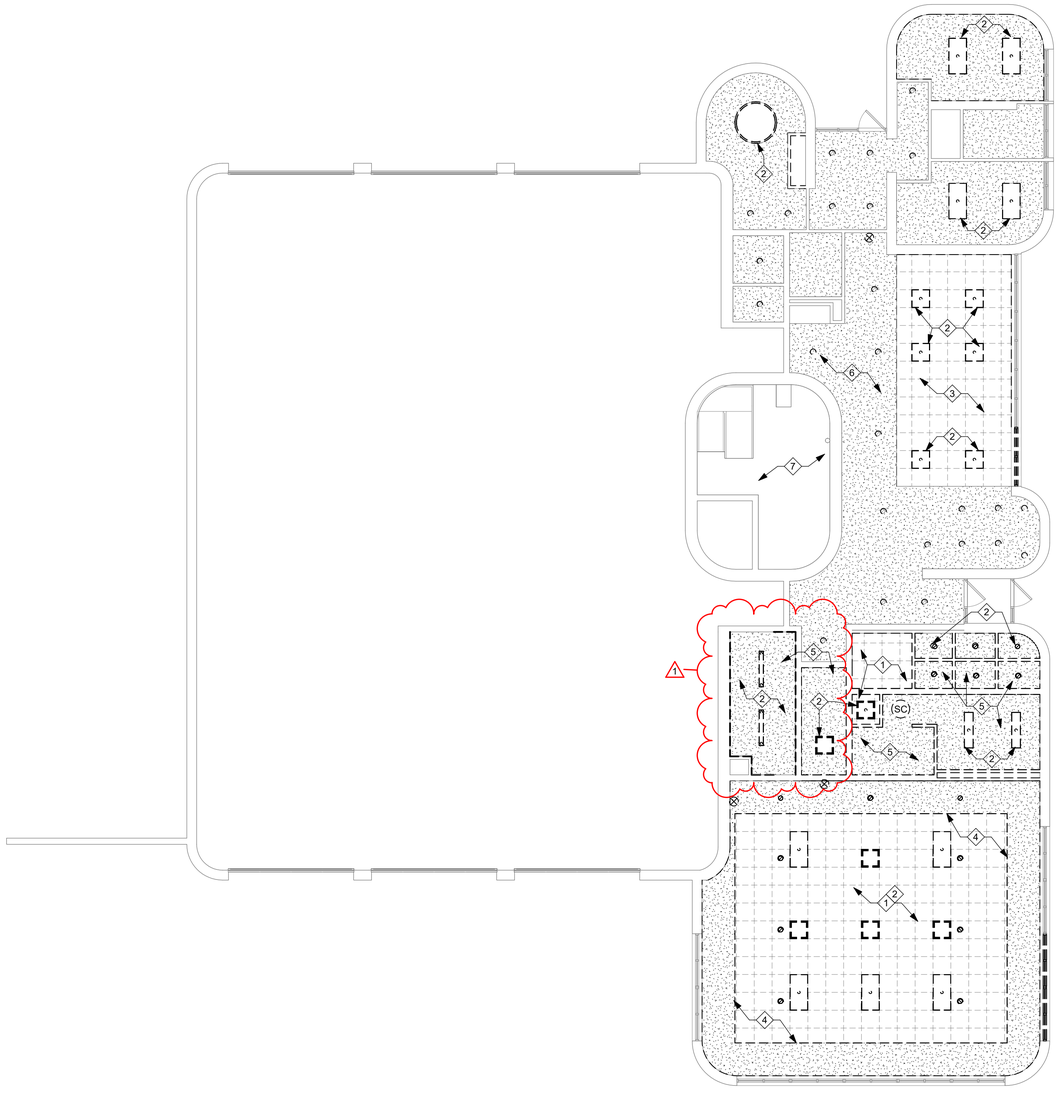
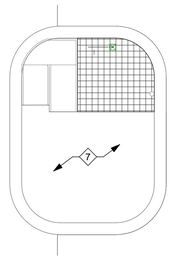
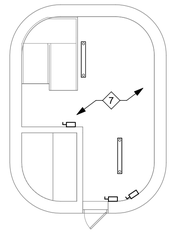


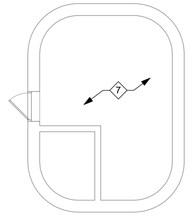
E1 DEMOLITION CEILING PLAN - LEVEL 1
1/8" = 1'-0"



B5 DEMOLITION CEILING PLAN - BASEMENT
1/8" = 1'-0"



D5 DEMOLITION CEILING PLAN - LEVEL 2
1/8" = 1'-0"



E5 DEMOLITION CEILING PLAN - LEVEL 3
1/8" = 1'-0"

DEMOLITION NOTES

INDICATES DEMOLITION NOTE.

1 REMOVE EXISTING ACOUSTIC PANELED CEILING ASSEMBLY (PADS, GRID, AND WIRES)

2 REMOVE EXISTING LIGHT FIXTURES, MECHANICAL DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. REFER TO P.M.E. DRAWINGS FOR MORE INFO. TYP. (NOT ALL DEVICES SHOWN).

3 REMOVE EXISTING CEILING PADS.

4 REMOVE EXISTING GYP. BOARD BULKHEADS AND SOFFITS.

5 REMOVE EXISTING GYP. BOARD CEILING.

6 REMOVE PORTIONS OF GYP. BOARD CEILING. FOR DEMO OF HVAC DEVICES. REFER TO MECH. DRAWINGS.

7 PREPARE EXPOSED STRUCTURE FOR NEW PAINT.

GENERAL NOTES

A. DASHED LINES INDICATE BUILDING ELEMENTS, MATERIALS AND EQUIPMENT TO BE REMOVED.

B. DURING DEMOLITION AND RECONSTRUCTION, ATTENTION MUST BE GIVEN TO MAINTAINING AND PRESERVING THE STRUCTURAL INTEGRITY OF THE BUILDING. IF ANY UNFORESEEN SITUATION DEVELOPS, NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.

C. PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY THE OWNER AND ARCHITECT OF AND DISCREPANCIES.

D. RENOVATION WORK IS EXTENSIVE THROUGHOUT AREA OF WORK. ACCESSORIES IN MULTIPLE INSTANCES ARE TO BE REMOVED. CONTACT ARCHITECT IF ANY QUESTIONS.

E. REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.

F. REFER TO PLUMBING, HVAC & ELECTRICAL DRAWINGS FOR OTHER ITEMS THAT NEED TO BE REMOVED.

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DRAWN	AEE
CHECKED	CMS/TJB

TITLE
DEMOLITION REFLECTED CEILING PLAN

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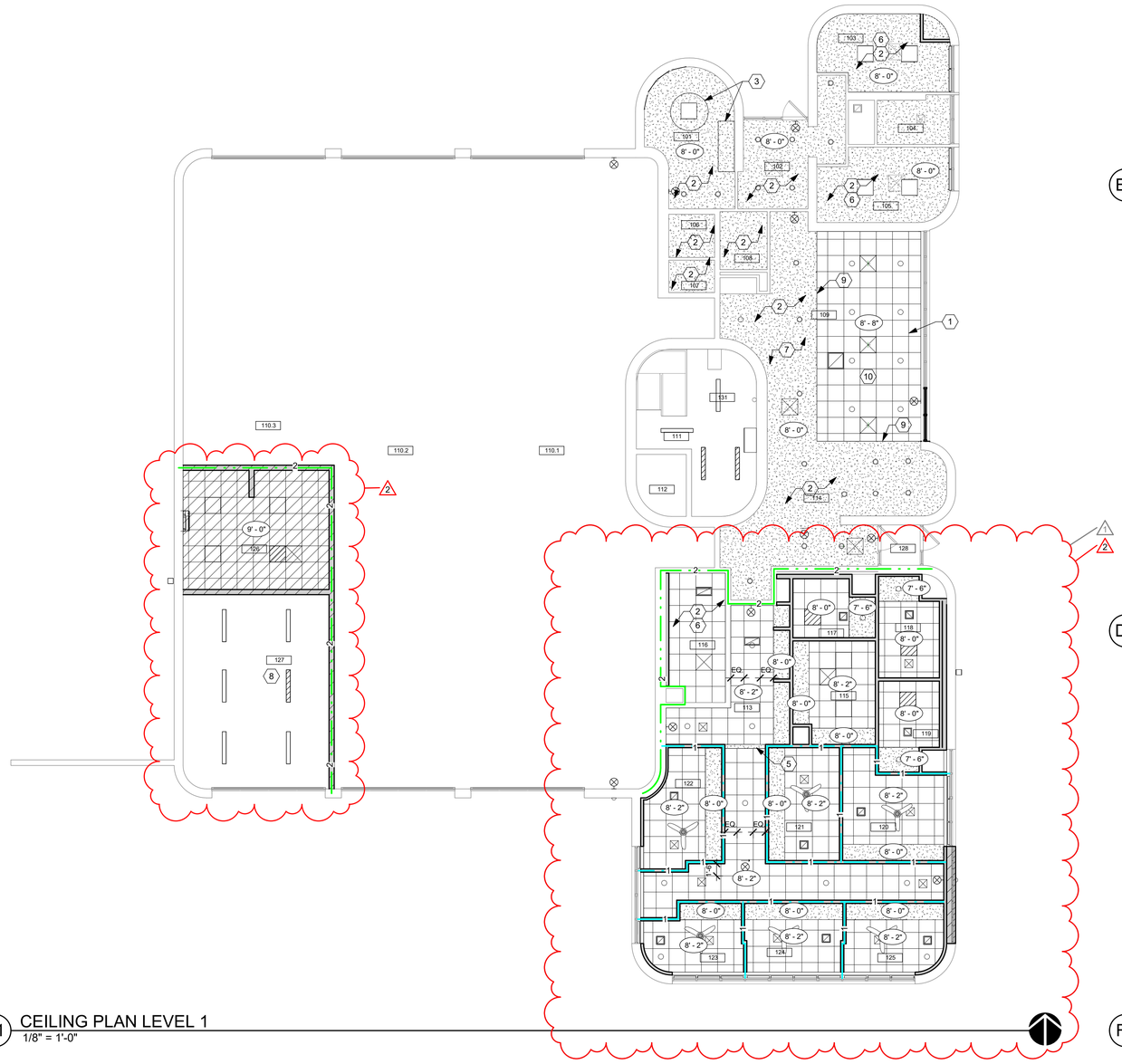
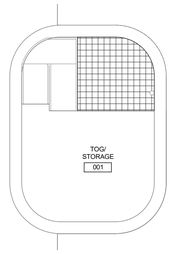
A2.11

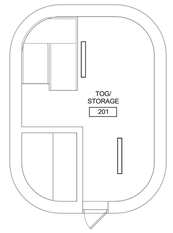
10/9/2025 10:47:09 AM



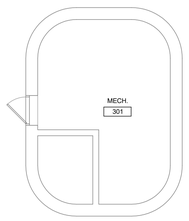
F1 CEILING PLAN LEVEL 1
1/8" = 1'-0"



B5 CEILING PLAN BASEMENT
1/8" = 1'-0"



D5 CEILING PLAN LEVEL 2
1/8" = 1'-0"



F5 CEILING PLAN LEVEL 3
1/8" = 1'-0"

CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

1 REPLACE APC CEILING TILES WITH NEW APC-1 TILES. RETAIN EXSITING CEILING GRID.

2 PAINT GYP. BD. CEILING. REFER TO ROOM FINISH SCHEDULE.

3 PATCH AND REPAIR GYP. BD. CEILING.

5 GYP. BD. BULK HEAD @ 8' - 0"

6 PATCH AND REPAIR GYP. BD. CEILING WHERE LIGHT FIXTURES AND CEILING DEVICES WERE REMOVED.

7 PATCH AND REPAIR GYP. BD. CEILING WHERE FROM DEMO OF HVAC DEVICES. REFER TO MECH. DRAWINGS.

8 CEILING TO REMAIN OPEN TO STRUCTURE. PAINT EP-1.

9 PAINT VERTICAL FACE OF SOFFIT P-3.

10 CLEAN EXISTING CEILING GRID.

GYP. BD. CEILING

2X2 APC-1 CEILING

2X2 APC-2 CEILING

GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE, MATERIALS LEGEND, AND SPECIFICATIONS FOR CEILING TYPES AND FINISHES.

B. LAYOUT GRIDS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES. BORDER TILES TO BE 3" MINIMUM U.N.O. INSTALL EDGE MOLDING AT PERIMETER U.N.O.

C. REFER TO PME DRAWINGS FOR DEVICE DESCRIPTIONS.

D. ALL EXPOSED GYPSUM BOARD SURFACES SHALL BE PAINTED.

E. EXPOSED STRUCTURE SHALL BE PAINTED PER SPECIFICATIONS.

F. GENERAL CONTRACTOR TO COORDINATE THE LOCATION OF ALL ALERTING SYSTEM DEVICES WITH THE DEVICES SHOWEN ON THIS PLAN.

FIRE BARRIER LEGEND

- SMOKE RESISTIVE
- 1 HR. FIRE PARTITION
- 1S 1 HR. FIRE/SMOKE BARRIER
- 2 HR. FIRE BARRIER
- 2S 2 HR. FIRE/SMOKE BARRIER
- 3 HR. FIRE BARRIER

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TITLE
REFLECTED CEILING PLAN

SHEET NO.
A2.12

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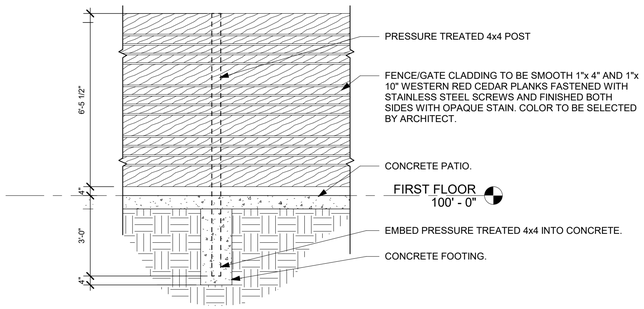
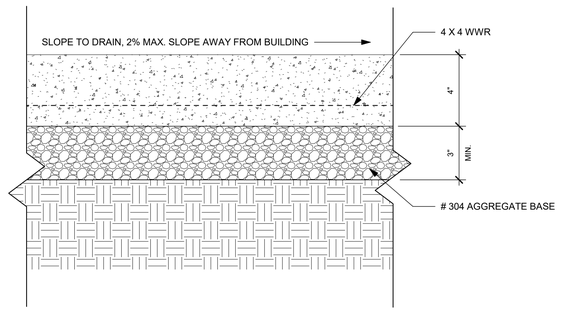
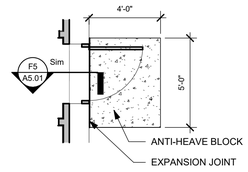


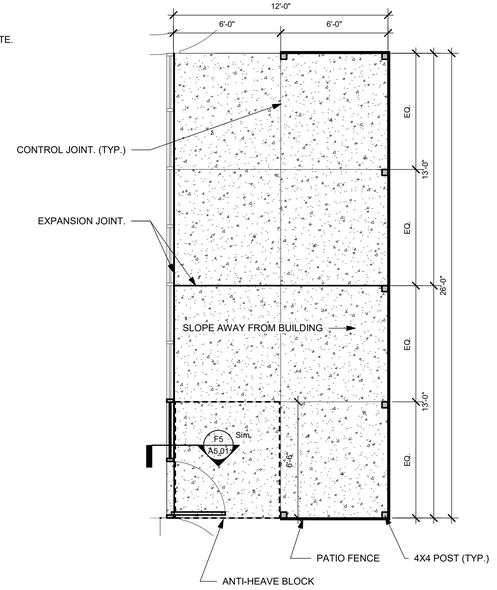
B2 PATIO FENCE ELEVATION (TYP)
3/8" = 1'-0"



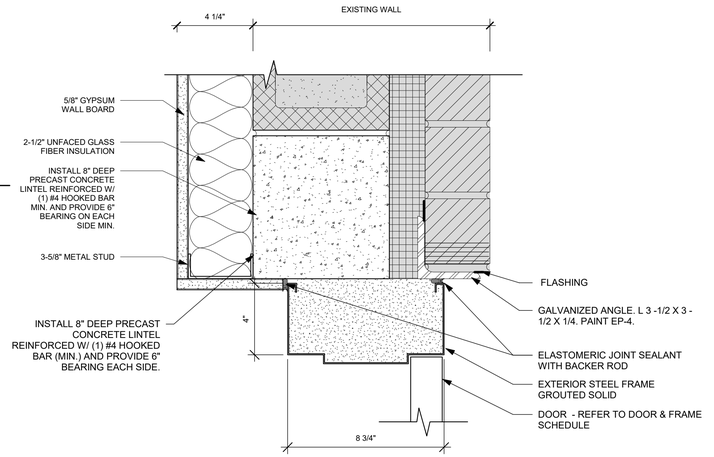
D2 CONCRETE PATIO SECTION
3" = 1'-0"



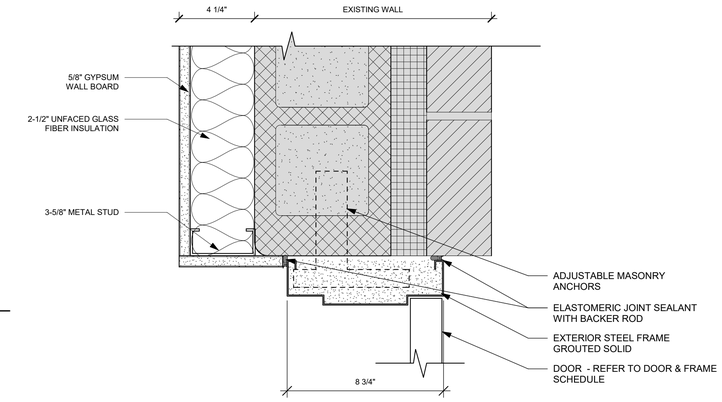
A4 ENLARGED STOOP PLAN2
1/4" = 1'-0"



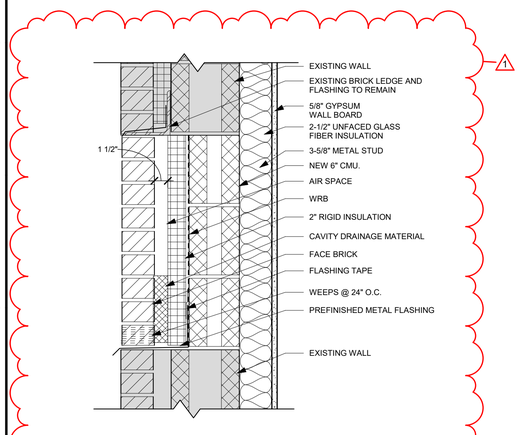
D4 ENLARGED PATIO PLAN
1/4" = 1'-0"



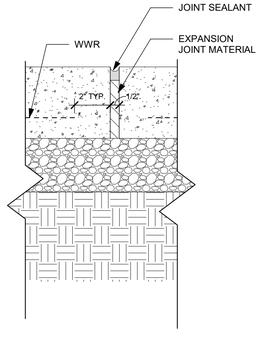
B6 EXTERIOR HEAD DETAIL - BRICK W/ STONE - CMU
3" = 1'-0"



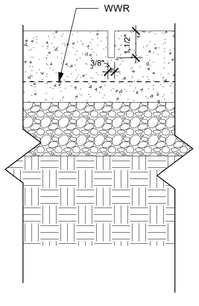
D5 EXTERIOR JAMB DETAIL - BRICK - (CMU)
3" = 1'-0"



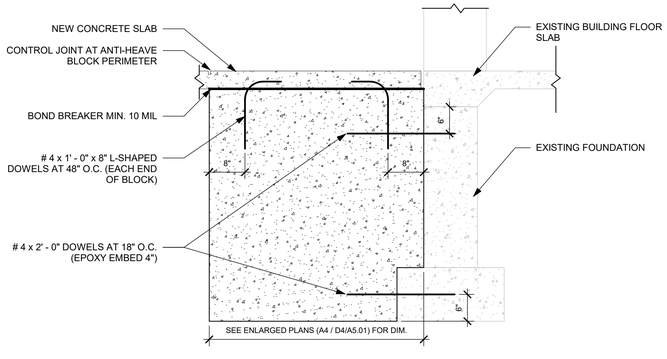
F1 WALL INFILL DETAIL
1 1/2" = 1'-0"



F2 CONCRETE EXPANSION JOINT SECTION
3" = 1'-0"



F4 CONCRETE CONTROL JOINT SECTION
3" = 1'-0"



F5 ANTI-HEAVE BLOCK
3/4" = 1'-0"

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Timothy J. Bennett License #12305
Expiration Date 12/31/2025

CITY OF DAYTON
DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, Ohio 45420

ISSUE

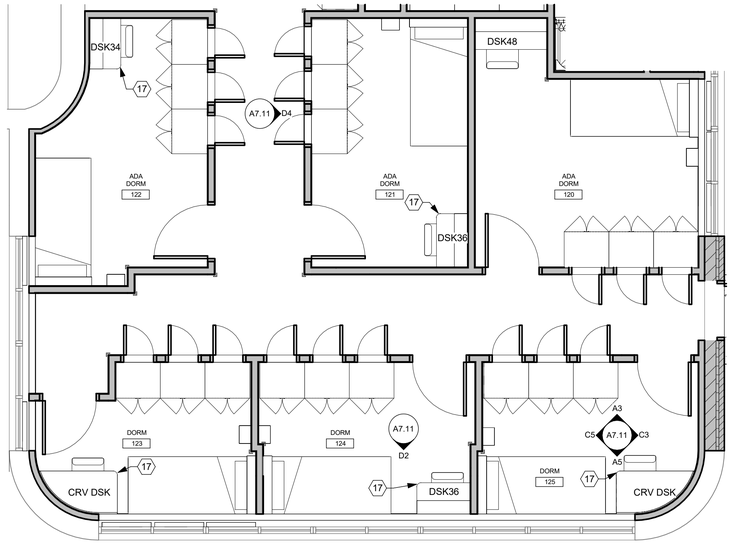
NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION
1	10/08/2025	ADDENDUM 2

DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

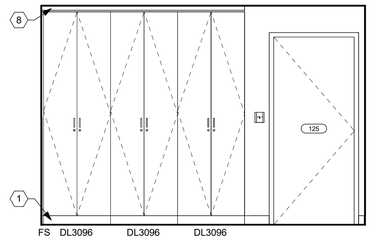
TITLE
EXTERIOR DETAILS

SHEET NO.
A5.01

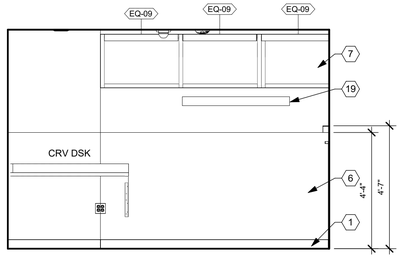
10/9/2025 10:47:11 AM



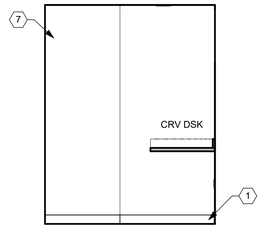
C1 ENLARGED FLOOR PLAN A
1/4" = 1'-0"



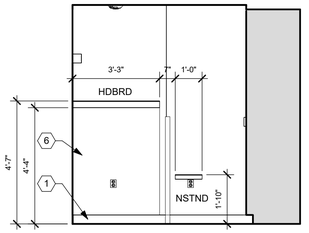
A3 125 DORM NORTH
3/8" = 1'-0"



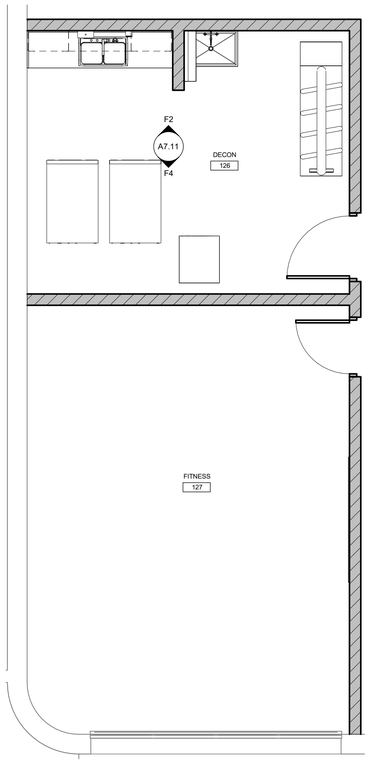
A5 125 DORM SOUTH
3/8" = 1'-0"



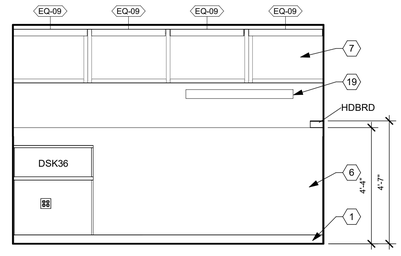
C3 125 DORM EAST
3/8" = 1'-0"



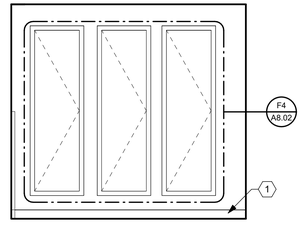
C5 125 DORM WEST
3/8" = 1'-0"



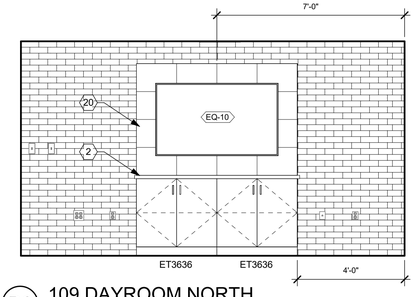
F1 ENLARGED FLOOR PLAN B
1/4" = 1'-0"



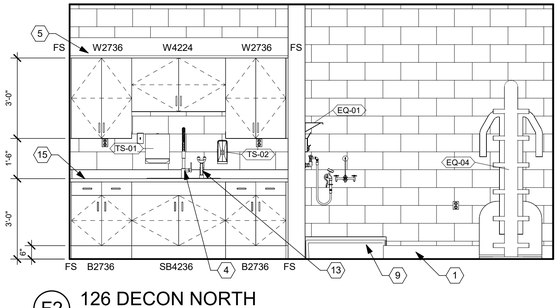
D2 124 DORM SOUTH
3/8" = 1'-0"



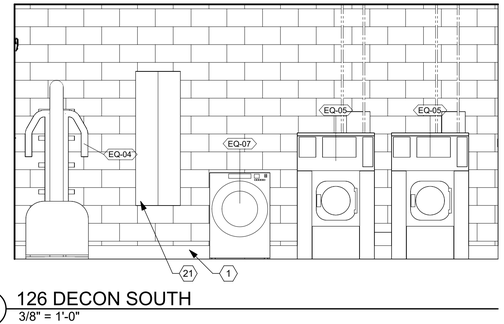
D4 113 HALL LOCKERS
3/8" = 1'-0"



D6 109 DAYROOM NORTH
3/8" = 1'-0"



F2 126 DECON NORTH
3/8" = 1'-0"



F4 126 DECON SOUTH
3/8" = 1'-0"

CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.
NOT ALL NOTES USED THIS SHEET.

1 WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.
2 PLASTIC LAMINATE COUNTERTOP. (PL-2)
3 BUTCHER BLOCK WORK SURFACE.
4 SINK. REFER TO PLUMBING DRAWINGS.
5 PLASTIC LAMINATE SLOPED TOP.
6 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE FOR HEIGHT AND TYPE.
7 BLACK OUT WINDOWS WITH WINDOW FILM.
8 GYP. BD. SOFFIT.
9 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.
10 ADJUSTABLE SHELVING (ADJS). REFER TO A8.01 FOR DETAILS.
12 PORCELAIN TILE WALL BASE. (PTWB-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
13 EYE WASH STATION. REFER TO PLUMBING DRAWINGS.
14 TOILET. REFER TO PLUMBING DRAWINGS.
15 STAINLESS STEEL COUNTERTOP WITH BACK AND SIDE SPLASHES AND INTEGRAL SINK.
16 PORCELAIN WALL TILE. (PTW-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
17 3" RADIUS DESK (DSK) CORNER.
18 PORCELAIN WALL TILE. (PTW-2)
19 LIGHT, REFER TO ELECTRICAL DRAWINGS.
20 WALL-HUNG TV CASEWORK. REFER TO SHEET A8.03 FOR DETAILS.
21 ELECTRICAL PANEL BOX. REFER TO ELECTRICAL DRAWINGS.
22 METAL SUPPORT BRACKETS @ 4' - 0" O.C. MAX.

GENERAL NOTES

EXAMPLE OF CASEWORK DIMENSIONS (2436) INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.

ALL PLASTIC LAMINATE BASE, WALL & TALL CABINETS TO BE (PL-1) U.N.O.

ALL CASEWORK COUNTERTOPS TO BE SOLID SURFACE (PL-2) UNLESS NOTED OTHERWISE.

PROVIDE MIN. 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL CABINETS.

INSTALL SOLID WOOD (FIRE-TREATED) (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALLMOUNTED
ITEMS INCLUDING CASEWORK, RAILINGS, TOILET ACCESSORIES, ETC.

REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL RECEPTACLE LOCATIONS. NOT ALL ELECTRICAL DEVICES ARE SHOWN ON ELEVATIONS.

SEE SHEETS A8.0 SERIES FOR TYPICAL CABINET SECTIONS AND DETAILS.

ALL OUTSIDE CORNERS OF SOLID SURFACE COUNTERTOPS SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.

SEE SHEET A7.1 FOR ACCESSORY SCHEDULE. NOT EVERY ITEM SHOWN IS LABELED. LABEL IS "TYPICAL" OF OTHERS SHOWN. COORDINATE FINAL POSITION WITH OWNER.

DESIGNATION (XX-X) REFERS TO FINISHES. REFER TO SPECIFICATIONS DIVISION 09 AND SHEET A0.2 & A0.3FOR FINISH DESCRIPTIONS AND ABBREVIATIONS.

ALL COUNTERTOPS 25" DEEP U.N.O.

ALL EXPOSED END PANELS IN CASEWORK TO RECEIVE SAME PLASTIC LAMINATE FINISH AS FRONT SURFACES.

ALL INTERIOR WALLS TO HAVE A WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.

REFER TO SHEET A0.1 FOR TYPICAL MOUNTING HEIGHT DIMENSIONS.

CASEWORK TYPES (PREFIX) ABBREVIATIONS:

SADA - "ADA" SINK BASE
B - BASE CABINET
4DB - 4 DOOR BASE CABINET
SB - SINK BASE
OB - OPEN SHELF BASE CABINET
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WM - WALL MICROWAVE CABINET
OW - OPEN SHELF WALL CABINET
FC - FILE CABINET
LFC - LATERAL FILE CABINET
ET - ENTERTAINMENT CABINET
TC - TALL CABINET
TOC - TALL OPEN CABINET
DL - DORM LOCKER

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ISSUE

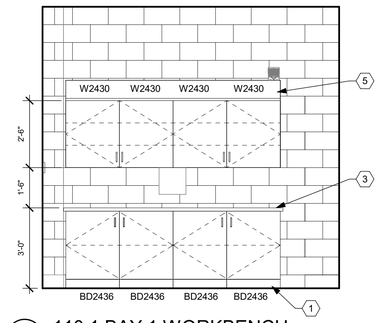
NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION

DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
CHECKED	CMS/TJB

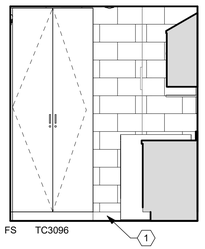
TITLE
INTERIOR ELEVATIONS

SHEET NO.
A7.11

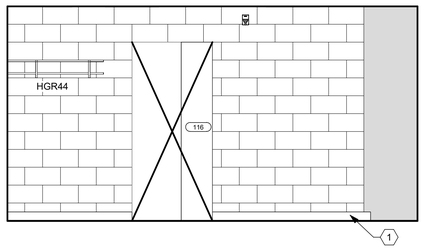
8/1/2025 1:22:38 PM



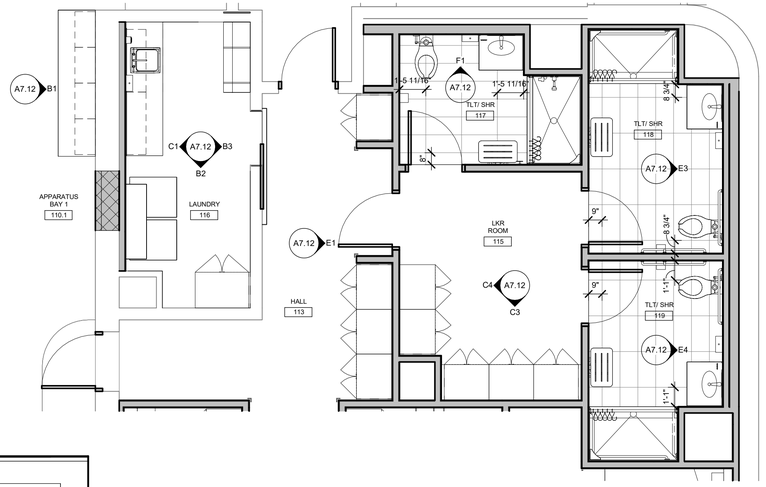
B1 110.1 BAY 1 WORKBENCH
3/8" = 1'-0"



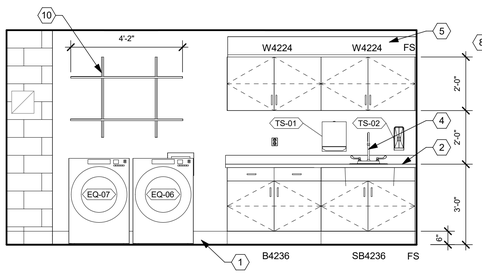
B2 116 LAUNDRY SOUTH
3/8" = 1'-0"

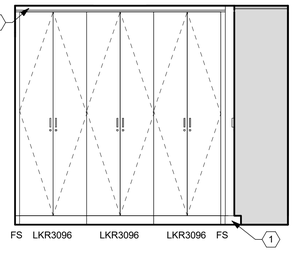


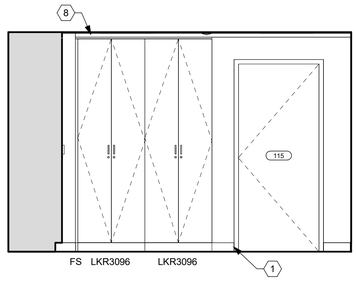
B3 116 LAUNDRY EAST
3/8" = 1'-0"



B5 ENLARGED FLOOR PLAN C
1/4" = 1'-0"



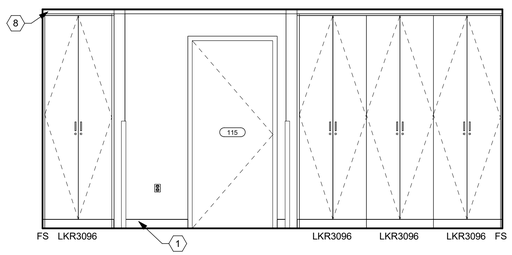




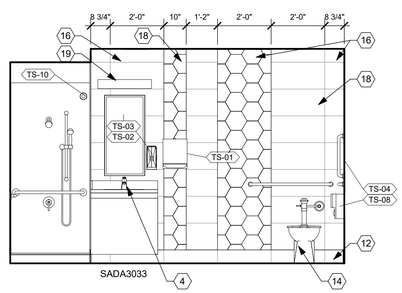
C1 116 LAUNDRY WEST
3/8" = 1'-0"

C3 115 LKR ROOM SOUTH
3/8" = 1'-0"

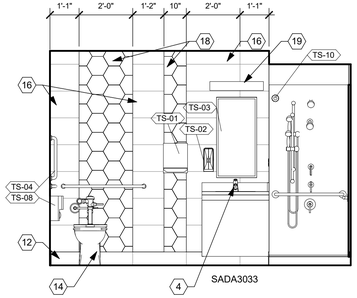
C4 115 LKR ROOM WEST
3/8" = 1'-0"



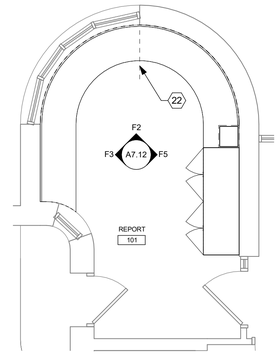
E1 113 HALL EAST
3/8" = 1'-0"



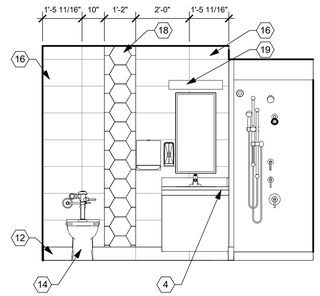
E3 118 TLT/ SHR EAST
3/8" = 1'-0"



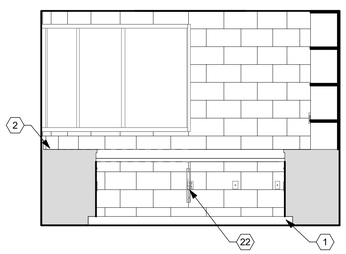
E4 119 TLT/ SHR EAST
3/8" = 1'-0"



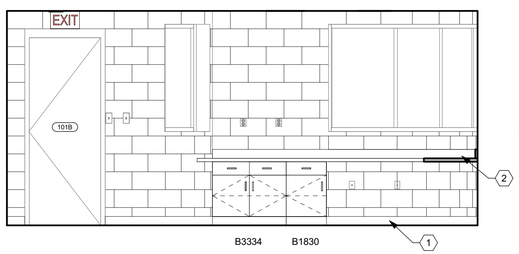
E5 ENLARGED FLOOR PLAN D
1/4" = 1'-0"



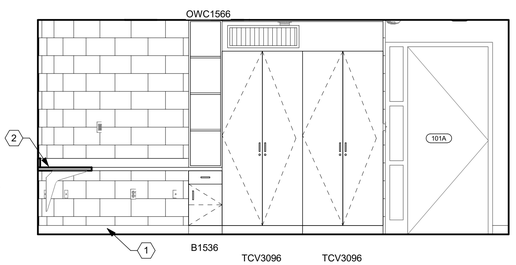
F1 117 TLT/ SHR NORTH
3/8" = 1'-0"



F2 101 REPORT NORTH
3/8" = 1'-0"



F3 101 REPORT WEST
3/8" = 1'-0"



F5 101 REPORT EAST
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.
NOT ALL NOTES USED THIS SHEET.

1 WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.
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12 PORCELAIN TILE WALL BASE. (PTWB-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
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14 TOILET. REFER TO PLUMBING DRAWINGS.
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18 PORCELAIN WALL TILE. (PTW-2)
19 LIGHT, REFER TO ELECTRICAL DRAWINGS.
20 WALL-HUNG TV CASEWORK. REFER TO SHEET A8.03 FOR DETAILS.
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22 METAL SUPPORT BRACKETS @ 4' - 0" O.C. MAX.

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TOC - TALL OPEN CABINET
DL - DORM LOCKER

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STATE OF OHIO TIMOTHY J. BENNETT REGISTERED ARCHITECT
Timothy J. Bennett License #12305
Expiration Date 12/31/2025

CITY OF DAYTON
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ISSUE

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DATE	08/01/25
JOB NO.	4284.00
DRAWN	AEE
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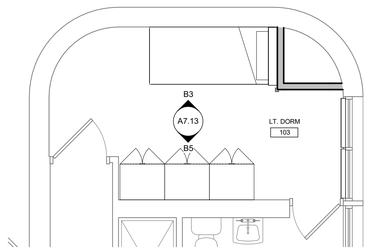
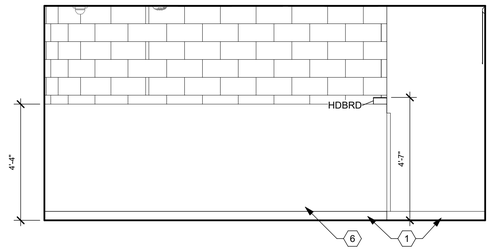
TITLE
INTERIOR ELEVATIONS

SHEET NO.
A7.12

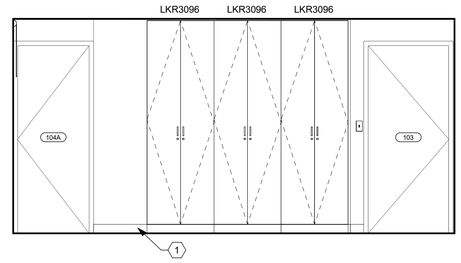
8/1/2025 1:22:40 PM



B2 ENLARGED FLOOR PLAN E
1/4" = 1'-0"



B3 103 LT. DORM NORTH
3/8" = 1'-0"



B5 103 LT. DORM SOUTH
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.
NOT ALL NOTES USED THIS SHEET.

1 WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.
2 PLASTIC LAMINATE COUNTERTOP. (PL-2)
3 BUTCHER BLOCK WORK SURFACE.
4 SINK. REFER TO PLUMBING DRAWINGS.
5 PLASTIC LAMINATE SLOPED TOP.
6 VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE FOR HEIGHT AND TYPE.
7 BLACK OUT WINDOWS WITH WINDOW FILM.
8 GYP. BD. SOFFIT.
9 MOP SINK WITH MOP HANGER ABOVE. REFER TO PLUMBING DRAWINGS AND EQUIPMENT PLAN.
10 ADJUSTABLE SHELVING (ADJS). REFER TO A8.01 FOR DETAILS.
12 PORCELAIN TILE WALL BASE. (PTWB-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
13 EYE WASH STATION. REFER TO PLUMBING DRAWINGS.
14 TOILET. REFER TO PLUMBING DRAWINGS.
15 STAINLESS STEEL COUNTERTOP WITH BACK AND SIDE SPLASHES AND INTEGRAL SINK.
16 PORCELAIN WALL TILE. (PTW-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
17 3" RADIUS DESK (DSK) CORNER.
18 PORCELAIN WALL TILE. (PTW-2)
19 LIGHT, REFER TO ELECTRICAL DRAWINGS.
20 WALL-HUNG TV CASEWORK. REFER TO SHEET A8.03 FOR DETAILS.
21 ELECTRICAL PANEL BOX. REFER TO ELECTRICAL DRAWINGS.
22 METAL SUPPORT BRACKETS @ 4' - 0" O.C. MAX.

GENERAL NOTES

EXAMPLE OF CASEWORK DIMENSIONS (2436) INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.

ALL PLASTIC LAMINATE BASE, WALL & TALL CABINETS TO BE (PL-1) U.N.O.

ALL CASEWORK COUNTERTOPS TO BE SOLID SURFACE (PL-2) UNLESS NOTED OTHERWISE.

PROVIDE MIN. 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL CABINETS.

INSTALL SOLID WOOD (FIRE-TREATED) (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALLMOUNTED
ITEMS INCLUDING CASEWORK, RAILINGS, TOILET ACCESSORIES, ETC.

REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL RECEPTACLE LOCATIONS. NOT ALL ELECTRICAL DEVICES ARE SHOWN ON ELEVATIONS.

SEE SHEETS A8.0 SERIES FOR TYPICAL CABINET SECTIONS AND DETAILS.

ALL OUTSIDE CORNERS OF SOLID SURFACE COUNTERTOPS SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.

SEE SHEET A7.1 FOR ACCESSORY SCHEDULE. NOT EVERY ITEM SHOWN IS LABELED. LABEL IS "TYPICAL" OF OTHERS SHOWN. COORDINATE FINAL POSITION WITH OWNER.

DESIGNATION (XX-X) REFERS TO FINISHES. REFER TO SPECIFICATIONS DIVISION 09 AND SHEET A0.2 & A0.3FOR FINISH DESCRIPTIONS AND ABBREVIATIONS.

ALL COUNTERTOPS 25" DEEP U.N.O.

ALL EXPOSED END PANELS IN CASEWORK TO RECEIVE SAME PLASTIC LAMINATE FINISH AS FRONT SURFACES.

ALL INTERIOR WALLS TO HAVE A WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.

REFER TO SHEET A0.1 FOR TYPICAL MOUNTING HEIGHT DIMENSIONS.

CASEWORK TYPES (PREFIX) ABBREVIATIONS:

SADA - "ADA" SINK BASE
B - BASE CABINET
4DB - 4 DOOR BASE CABINET
SB - SINK BASE
OB - OPEN SHELF BASE CABINET
W - WALL CABINET
WM - WALL MICROWAVE CABINET
OW - OPEN SHELF WALL CABINET
FC - FILE CABINET
LFC - LATERAL FILE CABINET
ET - ENTERTAINMENT CABINET
TC - TALL CABINET
TOC - TALL OPEN CABINET
DL - DORM LOCKER

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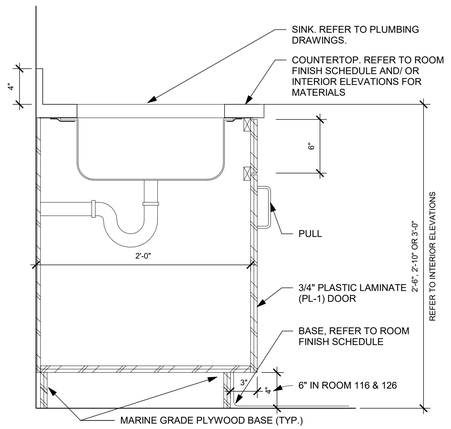
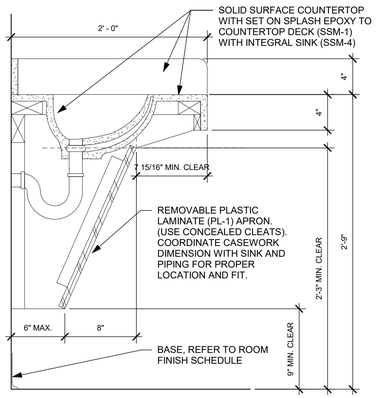
TITLE
INTERIOR ELEVATIONS

SHEET NO.
A7.13

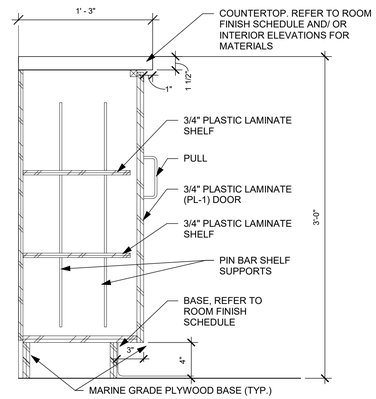
8/1/2025 1:22:49 PM



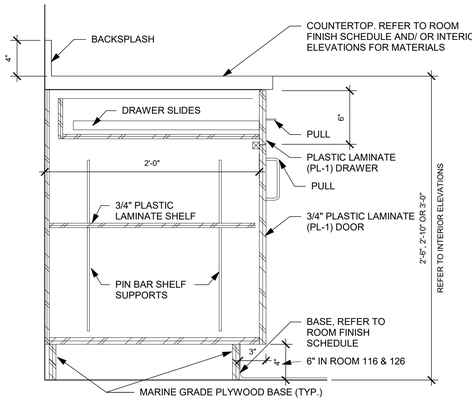
B1 TYP. SINK BASE CABINET (SB) DETAIL
1 1/2" = 1'-0"



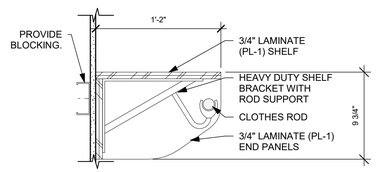
B2 "ADA" SINK (SADA) DETAIL
1 1/2" = 1'-0"



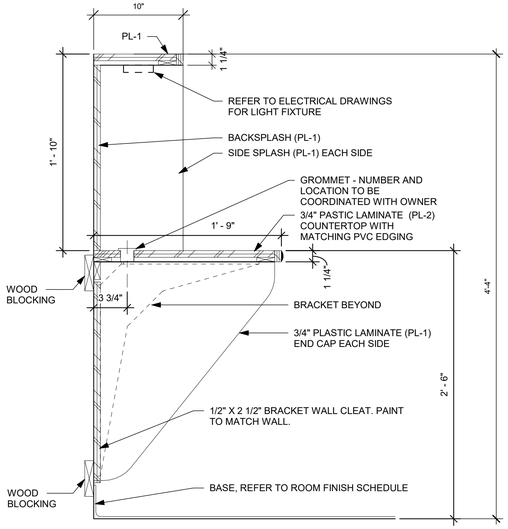
B4 ENTERTAINMENT CABINET (ET)
1 1/2" = 1'-0"



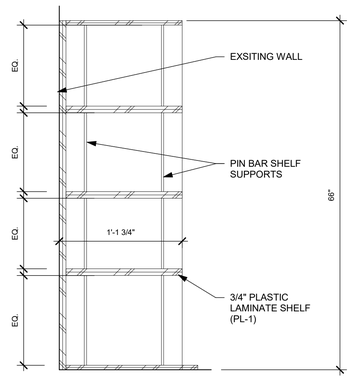
B6 DRAWER BASE CABINET (B) DETAIL
1 1/2" = 1'-0"



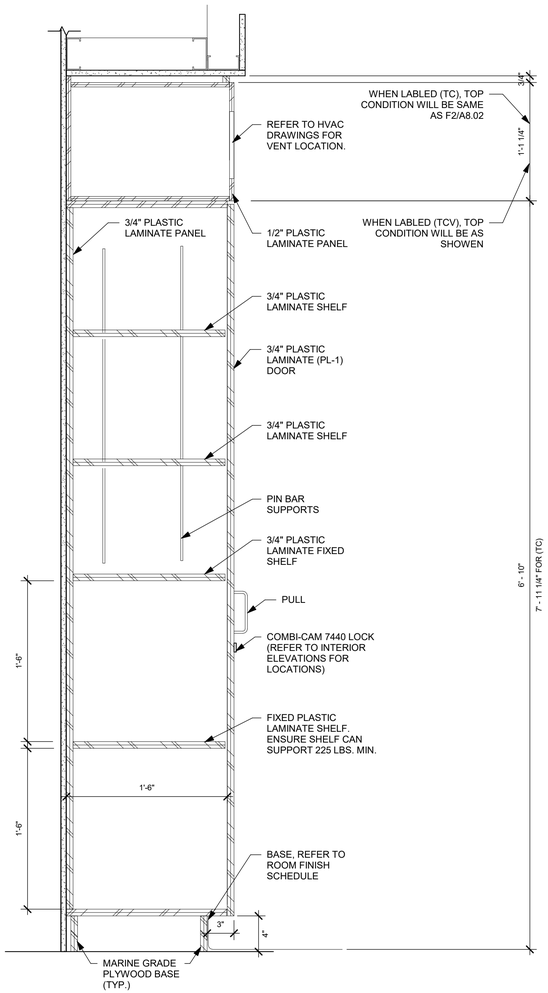
C1 HANGER ROD W/ SHELF (HGR)
1 1/2" = 1'-0"



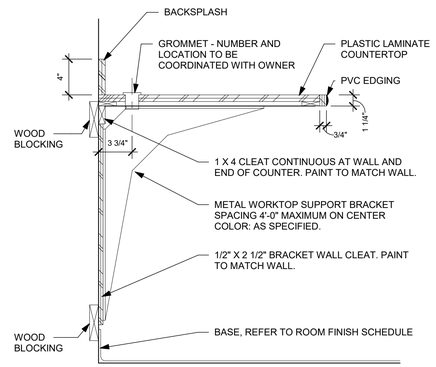
E2 TYP. DORM WORK SURFACE (DSK) DETAIL
1 1/2" = 1'-0"



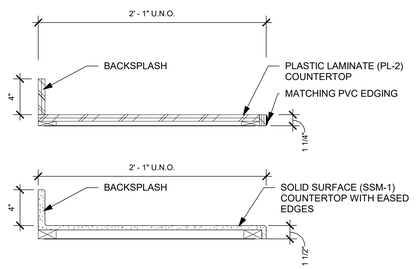
D4 OPEN WALL CABINET (OWC) DETAIL
1 1/2" = 1'-0"



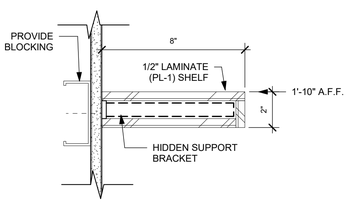
F6 TALL CABINET / TALL CABINET W/ VENT (TC / TCV) DETAIL
1 1/2" = 1'-0"



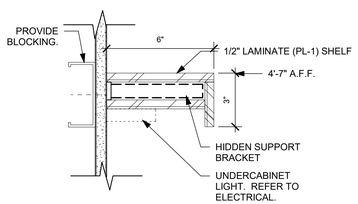
E1 TYP. WORK SURFACE DETAIL
1 1/2" = 1'-0"



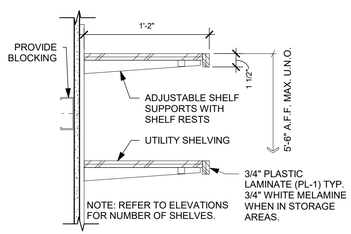
E4 TYP. COUNTER DETAILS
1 1/2" = 1'-0"



F1 DORM NIGHT STAND SHELF (NSTND) DETAIL
3" = 1'-0"



F2 DORM HEADBOARD SHELF (HDBRD)
3" = 1'-0"



F4 ADJUSTABLE SHELVING (ADJS)
1 1/2" = 1'-0"

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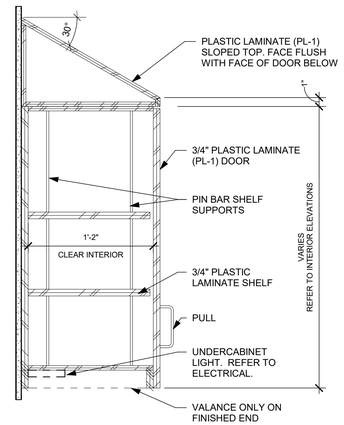
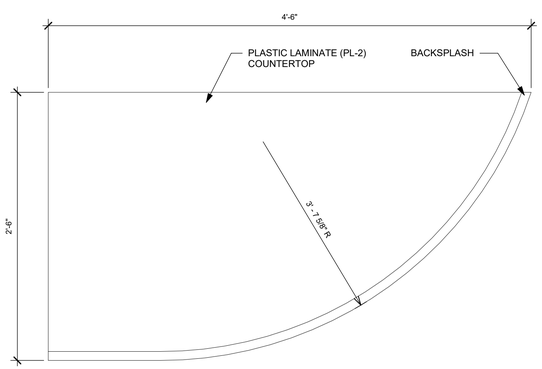
TITLE
CASEWORK DETAILS

SHEET NO.
A8.01

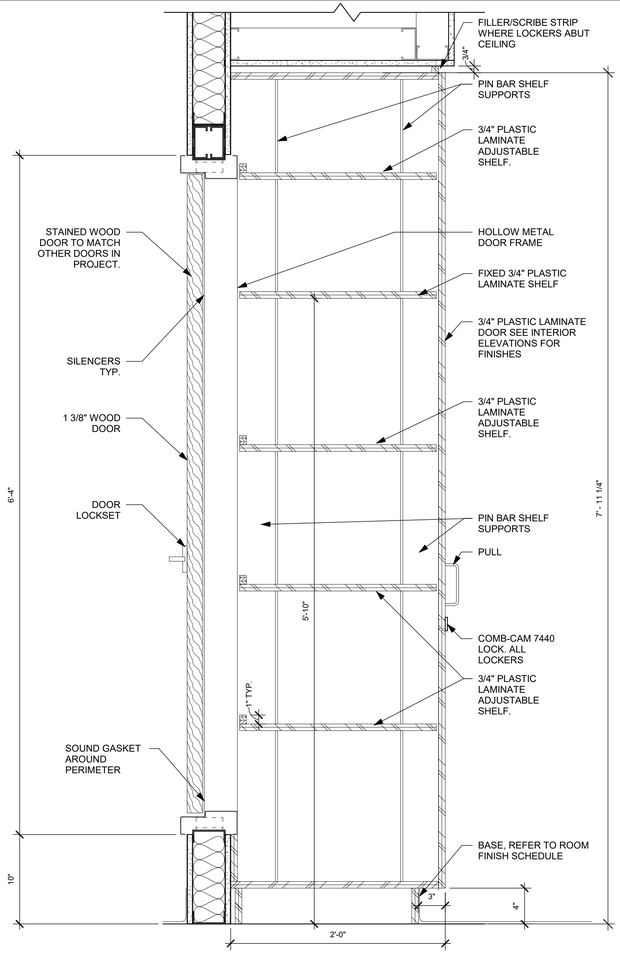
8/1/2025 1:22:41 PM



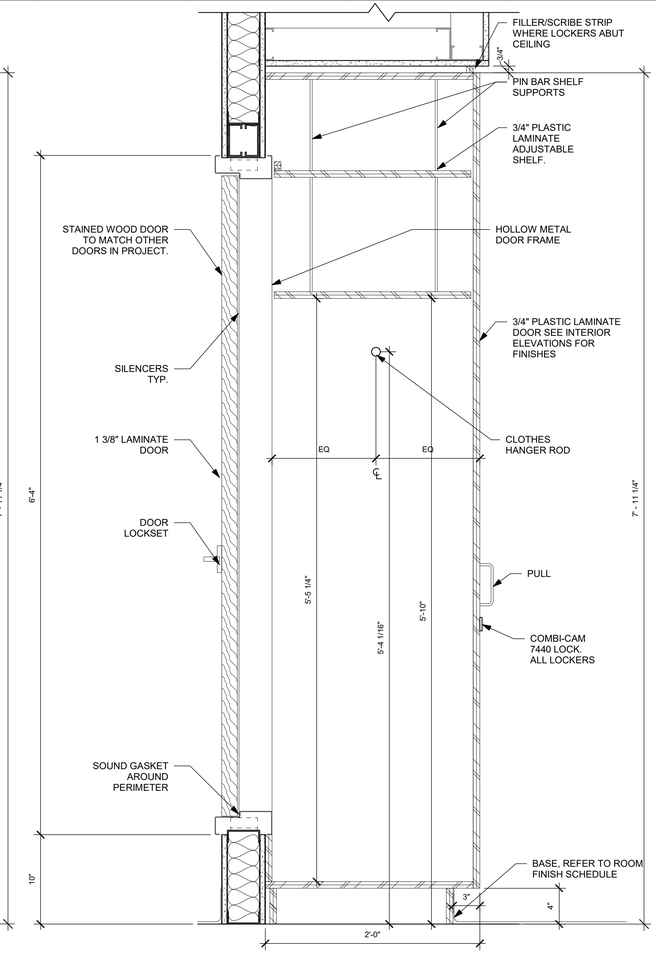
B1 WALL CABINET (W) DETAIL
1 1/2" = 1'-0"



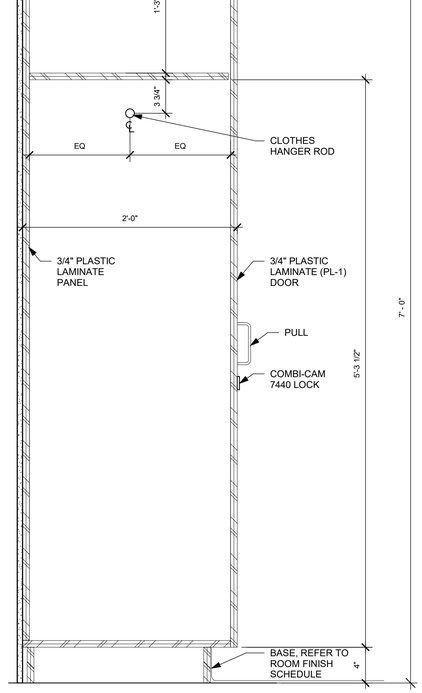
B2 CURVED DORM WORK SURFACE (CRV DSK) DETAIL
1 1/2" = 1'-0"



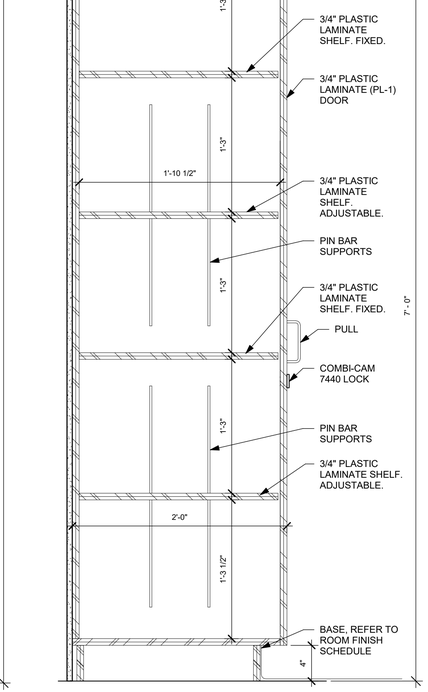
D4 DORM LOCKER (DL) - SHELVES
1 1/2" = 1'-0"



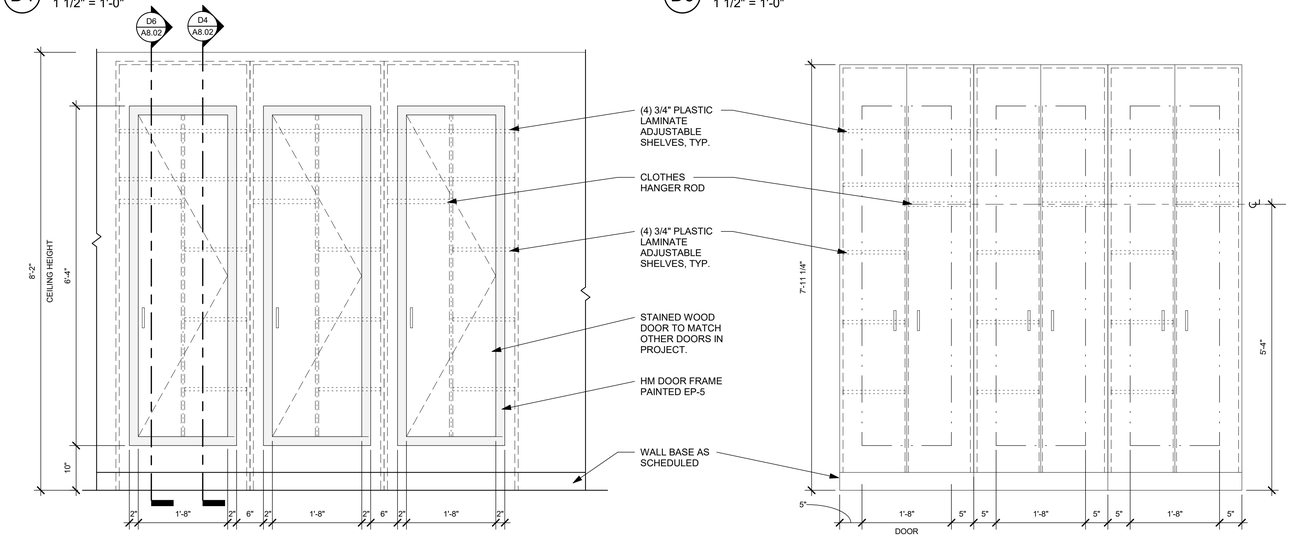
D6 DORM LOCKER (DL) - HANGER
1 1/2" = 1'-0"



F1 LOCKER (LKR) - HANGER SIDE
1 1/2" = 1'-0"



F2 LOCKER (LKR) - SHELF SIDE
1 1/2" = 1'-0"



F4 DORM LOCKER (DL) ELEVATION
3/4" = 1'-0"

HALL SIDE

DORM SIDE

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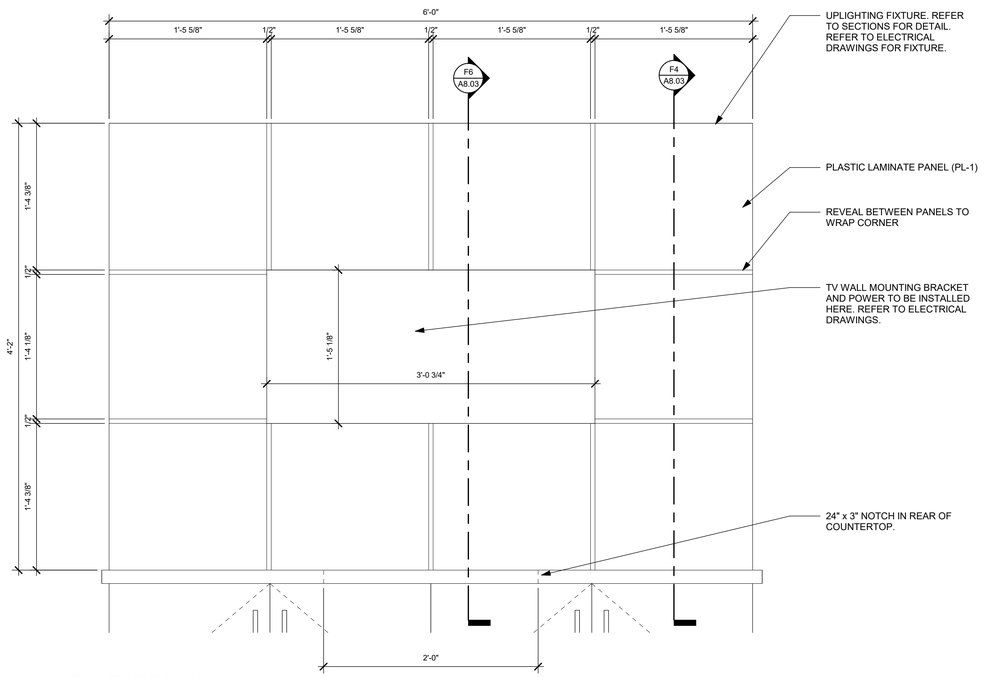
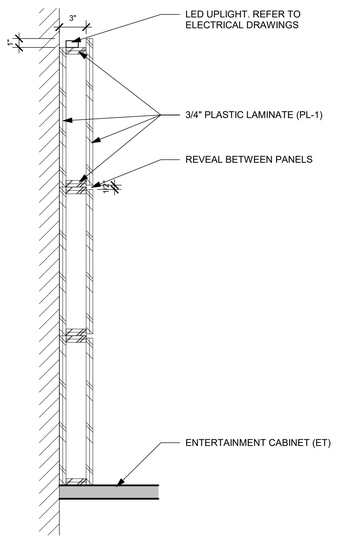
TITLE
CASEWORK DETAILS

SHEET NO.
A8.02

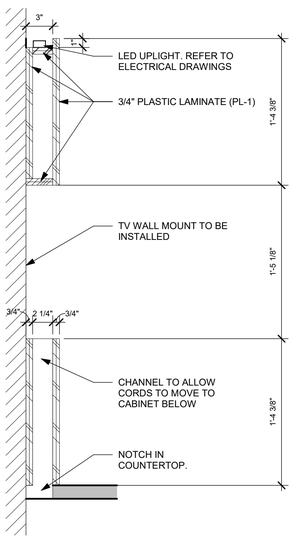
8/1/2025 1:22:42 PM



C4 TV DETAIL
1 1/2" = 1'-0"



F4 TV SECTION 1
1 1/2" = 1'-0"



F6 TV SECTION 2
1 1/2" = 1'-0"

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TITLE
CASEWORK DETAILS

SHEET NO.
A8.03

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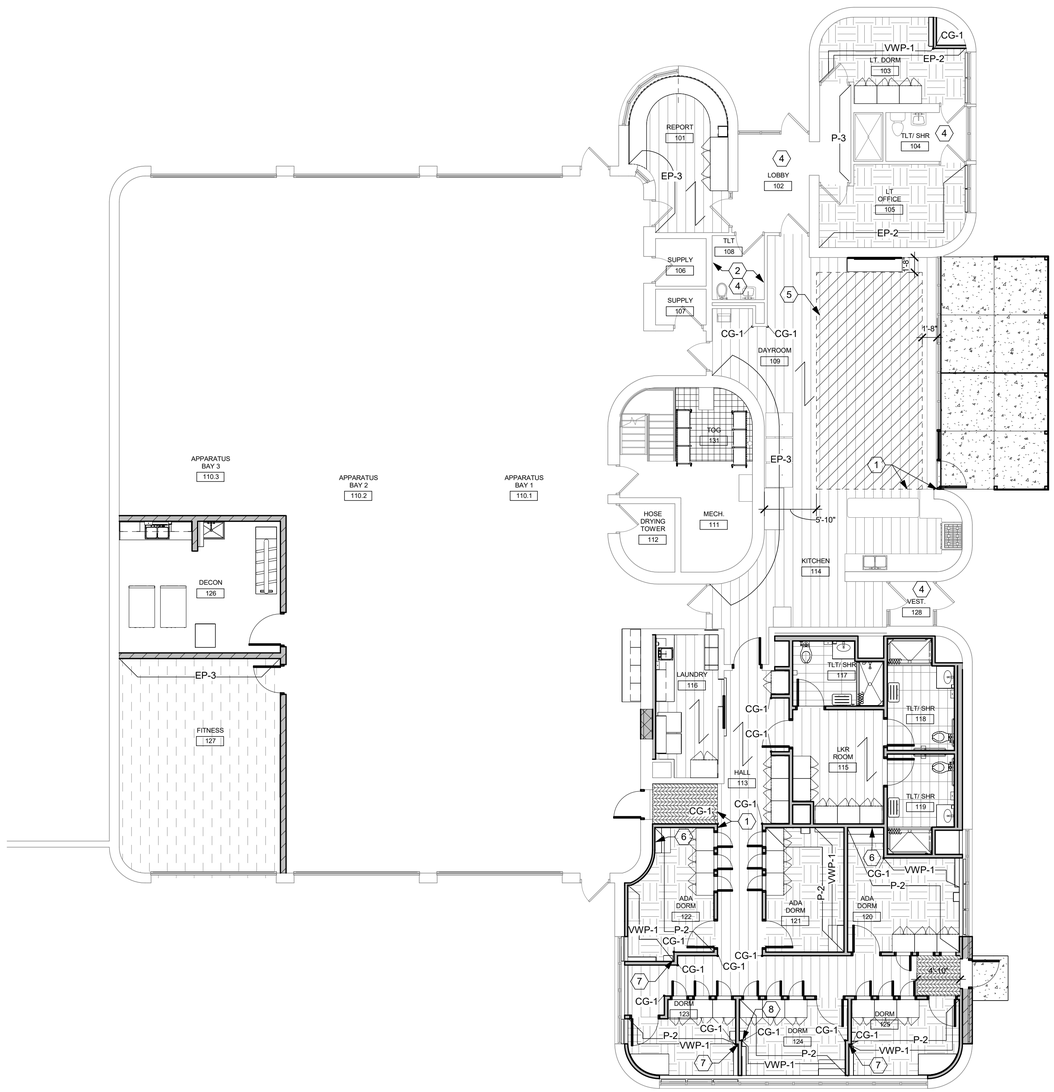
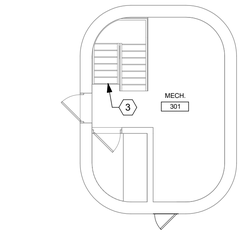
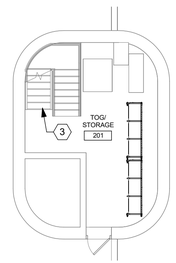


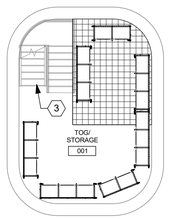
E1 FINISH FLOOR PLAN LEVEL 1
1/8" = 1'-0"



B5 LEVEL 3 FLOOR PLAN
1/8" = 1'-0"



D5 LEVEL 2 FLOOR PLAN
1/8" = 1'-0"



E5 BASEMENT FLOOR PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 ALIGN.

2 RETAIN EXISTING TILES. PAINT WALLS EP-2

3 PAINT METAL STAIR CASE EP-1

4 EXISTING FLOORING TO REMAIN.

5 EXTENTS OF LVT-1/LVT-2/LVT-3 FLOORING MIX.

6 VWP-1 UNDER DESK.

7 VWP-1 TO TERMINATE AT INNER CORNER OF WALL.

8 VWP-1 TO TERMINATE AT OUTER CORNER OF WALL.

GENERAL NOTES

A. REFER TO FINISH SCHEDULE A0.02 FOR ADDITIONAL MATERIAL DETAILS A LOCATIONS.

B. TRANSITION STRIPS ARE REQUIRED WHERE DIFFERING FLOORING TYPES MEET.

C. REFER TO ENLARGED FLOOR PLANS FOR TILE LAYOUTS AND DIMENSIONS.

CPT-1 CARPET TILE

MAT-1 WALK OFF MAT

PT-1 PORCELAIN TILE

LVT-1 / LVT-2 LUXURY VINYL TILE
50 / 50 MIX

LVT-1 / LVT-2 / LVT-3 LUXURY VINYL TILE
40 / 40 / 10 MIX

METAL GRATE

FLOORING DIRECTION

VWP-1 VINYL WALL PROTECTION

ACCENT PAINT COLOR / LOCATION

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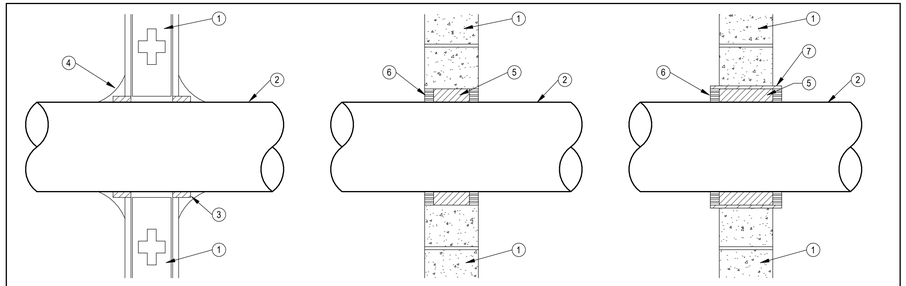
TITLE
FINISHES FLOOR PLAN

SHEET NO.
A9.01

8/1/2025 1:22:46 PM



GYPSUM CONSTRUCTION
ALL PIPE SIZES

CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

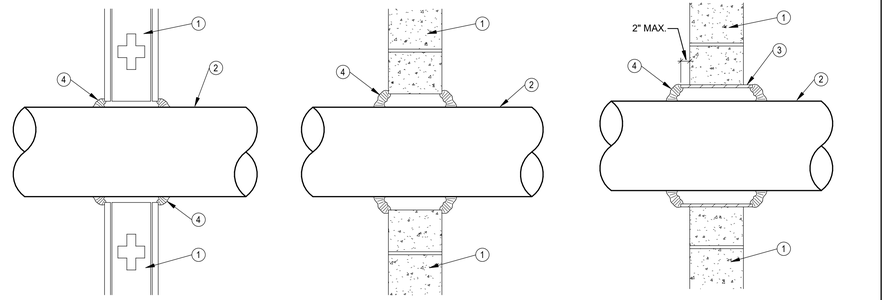
CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

FIRESTOPPING MATERIALS/INSTALLATION

- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS, HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

1. RATED WALL ASSEMBLY.
2. METALLIC PIPE OR TUBING.
3. APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
4. APPROVED FIRESTOPPING CAULK OR SEALANT.
5. PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
6. APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
7. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

X PIPE PENETRATIONS THRU FIRE RATED WALLS
N.T.S.



GYPSUM CONSTRUCTION
ALL PIPE SIZES

CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES

CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

1. FULL HEIGHT INTERIOR WALL.
2. PIPE OR TUBING.
3. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
4. CAULK TO FILL VOID AT WALL/SLEEVE OPENING TO PREVENT THE PASSAGE OF SMOKE.

2 PIPE PENETRATIONS THRU NON-RATED WALLS
N.T.S.

FIRE SUPPRESSION PIPING

GENERAL NOTES:

PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING INSTALLATION AND TESTING SHALL COMPLY WITH NFPA 13 (2016 EDITION).

PROVIDE PIPING SLEEVES AT WALLS IN NEW CONSTRUCTION.

PIPING SHALL BE PITCHED FOR DRAINAGE.

PROVIDE DIELECTRIC FITTINGS FOR TRANSITIONS BETWEEN FERROUS AND NON-FERROUS PIPING SYSTEMS.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

FLEXIBLE HOSES SHALL BE CONSTRUCTED WITH ANNULAR CORRIGATIONS. HELICAL CORRUGATIONS ARE NOT ACCEPTED.

PIPING SYSTEM	TYPE
WET PIPE SPRINKLER 2.5" AND LARGER	S1, S2, S3
WET PIPE SPRINKLER 2" AND SMALLER	S2
FINAL CONNECTION TO SPRINKLER HEAD	F1

TYPE	DESCRIPTION	TYPE	DESCRIPTION
S1	**ROLL GROOVED BLACK STEEL** SCHEDULE 10, ASTM A135 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536	S3	**ROLL/CUT GROOVED BLACK STEEL** SCHEDULE 40, ASTM A53 OR ASTM A795 MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536
S2	**THREADED BLACK STEEL** SCHEDULE 40, ASTM A53 OR ASTM A795, 150 LB. MALLEABLE OR C.I. SCREWED FITTINGS	F1	**FLEXIBLE SPRINKLER HOSE FITTING** 36" LENGTH MAXIMUM FULLY STAINLESS STEEL FLEXIBLE HOSE WITH CEILING BRACKET UL 2443 AND FM 1637 175 PSI RATING FOLLOW FM STANDARDS FOR BEND RADIUS AND NUMBER OF BENDS

GENERAL NOTES

A. PROVIDE A COMPLETE SPRINKLER SYSTEM THROUGHOUT THE AREA DESIGNATED. 2

B. ALL FIRE SUPPRESSION EQUIPMENT SHALL BE UL LISTED FOR FIRE SUPPRESSION SERVICE.

C. ALL FIRE SUPPRESSION SYSTEMS (SERVICE MAIN, FIRE DEPT. CONNECTION, SPRINKLER SYSTEM, INSPECTOR TEST, DRAIN, ETC.) SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST TO ALLOW AHJ TO WITNESS ALL TESTS.

D. ALL VALVES CONTROLLING WATER SUPPLIES SHALL BE PROVIDED WITH TAMPER SWITCHES (SEE NOTE E).

E. THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL STATION FIRE ALARM SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.

F. THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE WIRING OF ELECTRICAL FIRE SUPPRESSION DEVICES AND EQUIPMENT WITH THE ELECTRICAL AND/OR FIRE ALARM CONTRACTOR. ALL FIRE ALARM WIRING BY ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR.

G. THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES PRIOR TO INSTALLATION.

H. THE FIRE SUPPRESSION CONTRACTOR SHALL CENTER (WITHIN 1") ALL CONCEALED SPRINKLER HEADS INSTALLED IN ACOUSTICAL LAY-IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.

I. VERIFY THE LOCATION AND TYPE OF FIRE DEPARTMENT CONNECTION WITH THE FIRE DEPARTMENT.

J. LOCAL SPRINKLER ALARM AND REMOTE ALARM AND SUPERVISION SHALL BE THRU THE FIRE ALARM SYSTEM PROVIDED BY THE E.C.

K. CONCEALED, NONCOMBUSTIBLE ATTIC SPACES DO NOT REQUIRE SPRINKLERS.

L. FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AHJ.

DESIGN CRITERIA

2

1. DESIGN AND INSTALLATION OF WET PIPE SPRINKLER SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2024 OHIO BUILDING CODE, N.F.P.A. 13 (2022 EDITION), AND ALL AUTHORITIES HAVING JURISDICTION (AHJ).
2. WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED, SUBMITTED, AND APPROVED PRIOR TO INSTALLATION, BY THE FIRE SUPPRESSION CONTRACTOR. PLANS SHALL INCLUDE ALL ITEMS LISTED IN N.F.P.A. 13.
3. WATER SUPPLY DATA: THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A FLOW TEST TO OBTAIN CURRENT WATER SUPPLY DATA FROM THE NEW WATER DISTRIBUTION SYSTEM FOR USE IN THE HYDRAULIC CALCULATIONS.
4. HYDRAULIC DESIGN CRITERIA FOR LIGHT HAZARD AREAS: (ALL AREAS EXCEPT WHERE NOTED OTHERWISE)
   - DENSITY: 0.10 GPM/SQ.FT.
   - DESIGN AREA: MOST DEMANDING 1500 SQ.FT. (REDUCTION WITH QUICK RESPONSE HEADS PERMITTED)
   - MAX. SPRINKLER COVERAGE: 225 SQ. FT./HEAD
   - HOSE DEMAND: 100 GPM
   - DURATION: 30 MINUTE
5. HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 1) AREAS: (STORAGE ROOMS, MECHANICAL ROOMS, JANITOR'S ROOMS, KITCHEN, COMMUNICATION ROOMS)
   - DENSITY: 0.15 GPM/SQ.FT.
   - DESIGN AREA: MOST DEMANDING 1500 SQ.FT.
   - MAX. SPRINKLER COVERAGE: 130 SQ. FT./HEAD
   - HOSE DEMAND: 250 GPM
   - DURATION: 60 MINUTES
6. HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 2) AREAS: (ADD SPECIFIC ROOM).
   - DENSITY: 0.2 GPM/SQ.FT.
   - DESIGN AREA: MOST DEMANDING 1500 SQ.FT.
   - MAX. SPRINKLER COVERAGE: 130 SQ. FT./HEAD
   - HOSE DEMAND: 250 GPM
   - DURATION: 60 MINUTES
7. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
8. SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE CONCEALED PENDENT TYPE WITH FLAT PLATE AND CUSTOM COLOR TO MATCH THE ADJACENT CEILING COLOR OR FINISH. / WHITE FINISH.
9. SPRINKLER HEADS IN AREAS WITH NO CEILINGS SHALL BE BRASS/ CUSTOM COLOR UPRIGHTS. SIDEWALL SPRINKLER HEADS MAY ALSO BE USED IN STAIRWELLS WHERE PROPER COVERAGE CAN BE PROVIDED.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B / H2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
A / H1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

FIRE SUPPRESSION

F	FIRE SUPPRESSION SYSTEM
S	SPRINKLER SYSTEM
	GATE VALVE
	VALVE
	VALVE ON RISER
	CHECK VALVE
	SUPERVISED VALVE
FS	FLOW SWITCH
	CAP
	CONNECTION, BOTTOM
	CONNECTION, TOP
	ELBOW, 90°., LONG RADIUS
	ELBOW, 45°.
	ELBOW, TURNED UP
	ELBOW TURNED DOWN
	REDUCER
	UNION
P	PRESSURE GAUGE
	SPRINKLER BEING REMOVED
	PENDANT SPRINKLER
	UPRIGHT SPRINKLER
	SEMI-RECESSED SPRINKLER
	CONCEALED SPRINKLER
	INSTITUTIONAL PENDANT SPRINKLER
	SIDEWALL SPRINKLER

FIRE SUPPRESSION INDEX OF DRAWINGS

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REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

CITY OF DAYTON
DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, Ohio, 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION
2	10/08/2025	ADDENDUM 2

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DEG
CHECKED	JDZ

TITLE
LEGENDS AND SCHEDULES

SHEET NO.
F0.1

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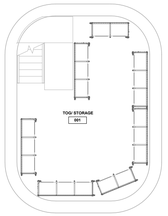
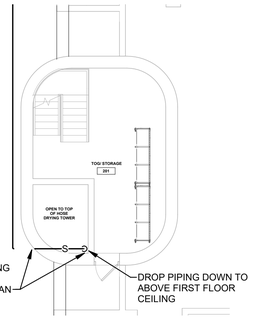


BASEMENT FIRE SUPPRESSION
SCALE: 1/8" = 1'-0"



SECOND FLOOR FIRE SUPPRESSION
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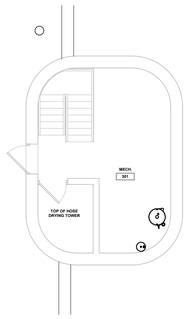

THIRD FLOOR FIRE SUPPRESION
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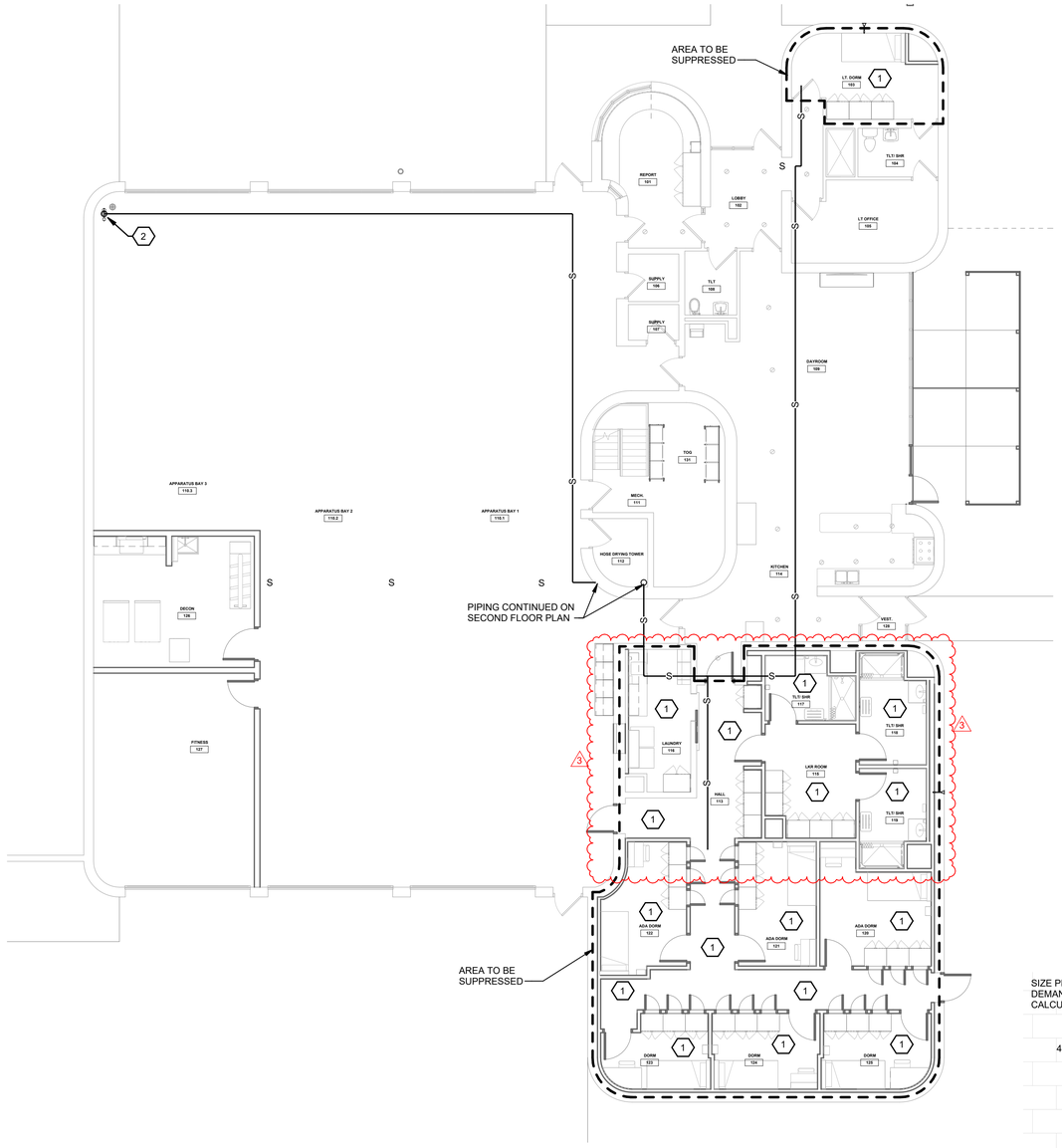
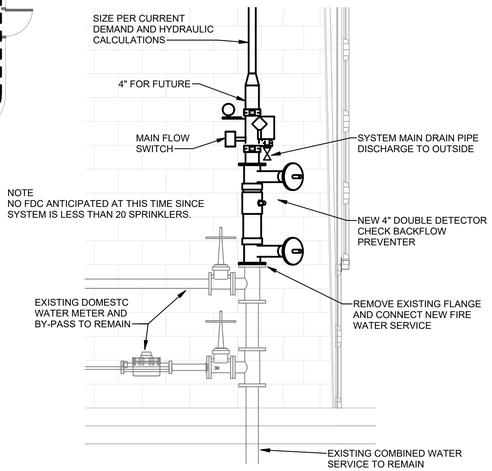


FIRST FLOOR FIRE SUPPRESSION
SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES
1. AREA TO BE SUPPRESSED.
2. FIRE SERVICE. SEE DETAIL THIS SHEET.



FIRE SERVICE
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NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION
3	11/11/25	CODE REVISIONS

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DEG
CHECKED	JDZ

TITLE
FIRE SUPPRESSION PLANS

SHEET NO.
F2.1

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PIPE HANGER SCHEDULE - PLUMBING

GENERAL NOTES FOR PIPE HANGERS:

DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND TEST WATER.

DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.

WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.

ATTACHMENT OF PIPE HANGER RODS TO THE STRUCTURE SHALL BE WITH:
1. BEAM CLAMPS FOR STEEL CONSTRUCTION EQUAL TO ANVIL FIG. 92, 93, OR 94. UTILIZE SWIVEL TYPE IN SLOPED STEEL CONSTRUCTION TO PROVIDE VERTICAL SUPPORT OF PIPE WITHOUT BENDING HANGER RODS.
2. SIDE BEAM BRACKET FOR WOOD CONSTRUCTION EQUAL TO ANVIL FIG. 206.
3. CHANNEL SUPPORT SYSTEM EQUAL TO UNISTRUT OR HILTI.

ATTACHMENT TO MANUFACTURED TRUSSES AND OTHER ENGINEERED STRUCTURAL MEMBERS AND SUPPORTS SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR TYPE OF ENGINEERED STRUCTURAL SYSTEMS BEING USED. CONNECTIONS TO THESE STRUCTURAL MEMBERS SHALL BE MADE WITH CONNECTION DEVICES AND METHODS APPROVED BY THE STRUCTURAL MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS WITH SUPPLEMENTAL STEEL SHAPES WHEN SPACING BETWEEN STRUCTURAL MEMBERS EXCEEDS SPECIFIED DISTANCES.

ADJUST PIPE HANGERS TO PROPER ELEVATION AND SET HANGER RODS IN A VERTICAL POSITION BEFORE PIPE INSULATION IS INSTALLED.

THE FIRST TWO HANGERS ON PIPING CONNECTING TO MOTOR DRIVEN EQUIPMENT SHALL BE FITTED WITH A STEEL SPRING AND NEOPRENE VIBRATION ISOLATION SECTION SIMILAR TO MASON INDUSTRIES, NO. 30N.

TRAPEZE HANGERS FOR NUMEROUS PIPES RUN IN PARALLEL MAY BE UTILIZED. HORIZONTAL SUPPORT MEMBERS SHALL BE UNISTRUT TYPE SECTION WITH PIPE ROLLERS (TO ALLOW FOR EXPANSION TRAVEL) AND SPRING AND NUT CONNECTORS, SUSPENDED WITH HANGER RODS AND ATTACHMENTS SIMILAR TO INDIVIDUAL PIPE HANGER SUSPENSION.

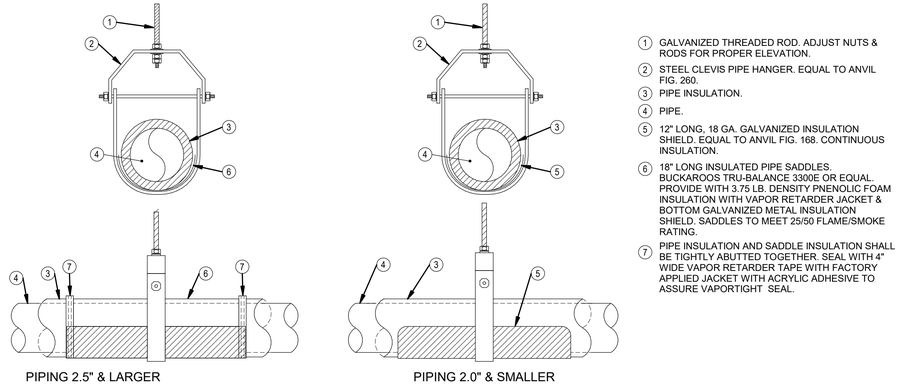
SHORTENED EXTENDED LEGS OF PIPE RISER CLAMPS AS NEEDED TO MAINTAIN CONCEALMENT OF THE CLAMP WITHIN THE PIPE CHASE. INSURE THAT ADEQUATE SUPPORT IS STILL MAINTAINED.

HANGER ASSEMBLIES EXPOSED ON COMPLETION OF THE PROJECT SHALL BE PAINTED BEFORE INSTALLATION.

PIPE SUPPORTS FOR PIPE RUNNING ACROSS THE ROOF SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND AS DETAILED. INSTALL PROTECTIVE SLIP SHEETS OF ROOFING MEMBRANE UNDER THE BASES TO SATISFY REQUIREMENTS OF BOTH THE ROOFING MANUFACTURER AND THE SUPPORT SYSTEM MANUFACTURER.

IN PIPING SYSTEMS WITH MECHANICAL JOINT COUPLINGS, PIPE HANGERS SHALL BE PROVIDED ON HORIZONTAL PIPING AT NORMAL SPECIFIED INTERVALS AND, IN ADDITION, SO THAT NO PIPE SHALL BE LEFT UNSUPPORTED BETWEEN ANY TWO COUPLINGS NOR LEFT UNSUPPORTED WHENEVER A CHANGE IN DIRECTION TAKES PLACE. VERTICAL PIPING SHALL BE SUPPORTED AT NORMAL SPECIFIED INTERVALS OR EVERY OTHER PIPE LENGTH, WHICH EVER IS MORE FREQUENT. THE BASE OF THE RISER OR BASE FITTING SHALL BE SUPPORTED.

SYSTEM & SIZE	ORIENTATION & SIZE	SPACING
STEEL PIPING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 2" & SMALLER	8 FT.
	HORIZONTAL 2.5" - 6"	10 FT.
	HORIZONTAL 8" & LARGER	12 FT.
CAST IRON	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL	AT 10 FT. INTERVALS. SUPPORT EACH LENGTH OF PIPE NOT MORE THAN 18" FROM THE JOINT. SUPPORT TERMINAL ENDS OF HORIZONTAL RUNS AND BRANCHES AND EACH CHANGE IN DIRECTION. 5" AND LARGER PROVIDE BRACING TO PREVENT HORIZONTAL MOVEMENT IN ACCORDANCE WITH CISPI "SOIL PIPE AND FITTINGS HANDBOOK"
COPPER TUBING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 1.25" & SMALLER	6 FT.
	HORIZONTAL 1.5" - 2"	8 FT.
	HORIZONTAL 2.5" & LARGER	10 FT.



1. GALVANIZED THREADED ROD. ADJUST NUTS & RODS FOR PROPER ELEVATION.
2. STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG. 260.
3. PIPE INSULATION.
4. PIPE.
5. 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD. EQUAL TO ANVIL FIG. 168. CONTINUOUS INSULATION.
6. 18" LONG INSULATED PIPE SADDLES. BUCKAROOS TRU-BALANCE 3300E OR EQUAL. PROVIDE WITH 3.75 LB. DENSITY PNENOLIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD. SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
7. PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER. SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.

4 PIPE HANGERS
N.T.S.

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE DESCRIPTION	FIXTURE	SERVICES H.W.	SERVICES C.W.	SERVICES SAN.	SERVICES VENT	MTG. HGT.	TRIM REQUIREMENTS SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES	NOTES
W1	WATER CLOSET/ VIT. CHINA/ FLOOR SET/ MANUAL FLUSH VALVE/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG MaP SCORE/ OPEN FRONT SEAT WITH LID/ ACCESSIBLE	AM. STANDARD # 3043.001	--	1"	4"	2"	--	SLOAN # SLOAN 111-1.6	UNIT	UNIT	INTEGRAL	--	SEAT BEMIS # 1950SSTDG	
L1	LAVATORY/ SOLID SURFACE/ INTEGRAL WITH COUNTERTOP/ SINGLE LEVER CAST BRASS FAUCET/ 0.5 GPM/ ACCESSIBLE	BY OTHERS	1/2"	1/2"	1 1/4"	1 1/2"	--	AM. STANDARD # 6114.116	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC		POWERS # LFE480	
S1	SINK/ ST. ST./UNDERMOUNT/ SINGLE BOWL/ 21" X 15"X 10" DEEP BOWL/ / SINGLE LEVER FAUCET W PULL DOWN SPRAY	ELKAY # EFU211510T	1/2"	1/2"	1 1/2"	1 1/2"	--	AM. STANDARD STUDIO S # 4803410	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912			
S2	SINK/ ST. ST./ INTEGRAL W C'TOP/ DOUBLE BOWL/ SINGLE LEVER FAUCET W PULL DOWN SPRAY W COIL/ BASKET STRAINER/ EMERG. DRENCH HOSE WITH MIXING VALVE	BY OTHERS	(2) 1/2"	(2) 1/2"	(2) 1 1/2"	1 1/2"	--	AM. STANDARD STUDIO S # 4803350	MCGUIRE # LFBV2165	MCGUIRE # 151A (2 REQ'D)	MCGUIRE # 8912 & # 111	--	GUARDIAN # G5022-HG & G3600LF	
SH1	SHOWER/ STALL BY OTHERS/ CENTER DRAIN STYLE W NO THRESHHOLD/ PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR/ DIVERTER VALVE IN WALL	BY OTHERS	1/2"	1/2"	3"	1 1/2"	VALVE 40" HEAD 78"	POWERS #E710-M-4-N-B-W	UNIT	UNIT	SAME AS SANITARY PIPING	--	--	
SH2	SHOWER/ STALL BY OTHERS/ TRENCH DRAIN STYLE W NO THRESHHOLD/ PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR/ DIVERTER VALVE IN WALL	BY OTHERS	1/2"	1/2"	3"	1 1/2"	VALVE 40" HEAD 78"	POWERS #E710-M-4-N-B-W	UNIT	UNIT	SAME AS SANITARY PIPING	--	--	
M1	MOP SINK/ FLOOR SET/ 24" SQ. 10" DEEP/ MOLDED STONE/ VINYL CAPS/ ST.ST. WALL PANELS/ ON 2 SIDES/ WALL MOUNTED FAUCET WITH INTEGRAL CHECK STOPS	FIAT # MSB2424	1/2"	1/2"	3"	1 1/2"	36" FAUCET	AM. STANDARD # 8351.112	UNIT	UNIT	SAME AS SANITARY PIPING	--	FIAT # E-88-AA , # MSG2424	
M2	MOP SINK/ FLOOR SET/ 24" x 36", 10" DEEP/ MOLDED STONE/ VINYL CAP/ ST.ST. WALL PANELS ON 3 SIDES/ WALL MOUNTED FAUCET WITH INTEGRAL CHECK STOPS AND HOSE AND SPRAY	FIAT # MSB3624	1/2"	1/2"	3"	1 1/2"	36" FAUCET	T & S BRASS # B1068	UNIT	UNIT	SAME AS SANITARY PIPING	--	FIAT # E-88-AA # MSG3624	
WB1	WASHER UTILITY CONNECTION BOX/ 1/4 TURN BALL VALVES WITH WATER HAMMER ARRESTOR/ WASTE CONNECTION	OATEY # 38540	3/4"	3/4"	2"	1 1/2"	30"	UNIT	BALL VALVES ABOVE CEILING	UNIT	SAME AS SANITARY PIPING	--	--	

EQUALS

AMERICAN STANDARD CHINA - KOHLER, ZURN, SLOAN

AMERICAN STANDARD FAUCETS - KOHLER, ZURN, CHICAGO, T&S BRASS
SLOAN FLUSH VALVES - ZURN, DELANEY
ELKAY SINKS - JUST, ADVANCED TABCO

MCGUIRE - WATTS, BRASS CRAFT
MCGUIRE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBEREX "PROEXTREME"
OATEY SUPPLY BOXES - IPS, GUY GRAY, SIOUX CHIEF

NOTES:
1. COORDINATE EXACT MOUNTING HEIGHT WITH MASONARY COURSING.

DRAIN SCHEDULE

TAG	DESCRIPTION	MANUFACTURER MODEL NUMBER	OUTLET SIZE	FEATURES ANCHOR FLANGE	FEATURES FLASHING CLAMP	FEATURES UNDERDECK CLAMP	FEATURES DBL/ DRAINAGE	FEATURES SEDIMENT BUCKET	STRAINER/GRATE TOP/STRAINER SIZE	STRAINER/GRATE FLAT	STRAINER/GRATE DOME	STRAINER/GRATE OPEN (NO GRATE)	STRAINER/GRATE HALF OPEN	STRAINER/GRATE ADJUSTABLE	STRAINER/GRATE FUNNEL	NOTES
FD1	FLOOR DRAIN/ CAST IRON BODY/ CAST IRON SQUARE TOP/ CAST IRON SEDIMENT BUCKET	ZURN # Z610-YC	4"	●			●		12" SQ.	●				●		
FD2	FLOOR DRAIN/ CAST IRON BODY/ NICKEL BRONZE ROUND TOP/ ADJUSTABLE	ZURN # ZN415-B7	3"	●			●		7" DIA	●				●		1.
FCO	EXTRA HEAVY DUTY CLEANOUT/ FLOOR SET/ NICKEL-BRONZE TOP/ CAST IRON BODY/ MIP THREADED CONNECTION/ ABS PLUG	ZURN # ZN1400-K	SAME AS PIPE UP TO 4"		●					●				●		

NOTES
1. PROVIDE ASSE 1072 TRAP MAINTENANCE DEVICE ON DRAIN.

GENERAL NOTES - PLUMBING

A. ALL WORK SHALL BE N ACCORDANCE WITH THE 2024 VERSION OF THE OHIO BUILDING AND PLUMBING CODES, INCLUDING REFERENCED CODES AND STANDARDS.

B. OBTAIN A PLUMBING PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.

C. REMOVE ALL ABANDONED PIPING & SUPPORTS.

D. SHUT DOWN OF DOMESTIC WATER SYSTEM SHALL BE SCHEDULED WITH THE OWNER.

E. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.

F. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF FIRE WALLS AND SMOKE PARTITIONS.
IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.
IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVED FIRE STOPPING PRODUCT, SEE SPECIFICATIONS.

G. REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.

H. ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.

I. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHING, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRIC/GAS COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B / H2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
A / H1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

PLUMBING LEGEND

	SANITARY DRAIN
	VENT
ST	STORM DRAIN
	COLD WATER
	HOT WATER
	HOT WATER RETURN
G	NATURAL GAS
A	COMPRESSED AIR
	SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
	CHECK VALVE
	BALANCING VALVE - REFER TO DOMESTIC HOT WATER RETURN BRANCH LINE VALVING DETAIL FOR ASSEMBLY REQUIRED AT EACH LOCATION
	VALVE ON RISER
	UNION
R	PRESSURE REGULATOR
P	PRESSURE GAUGE
T	TEMPERATURE GAUGE
	CONNECTION, BOTTOM
	CONNECTION, TOP
	DIRECTION OF FLOW
	CAP
C.O.	CLEAN OUT
V.R.	VENT RISER
V.T.R.	VENT THRU ROOF
S.S.	SOIL STACK
V.S.	VENT STACK
D.S.	DOWNSPOUT (STORM)

PLUMBING INDEX OF DRAWINGS

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ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION
2	10/08/2025	ADDENDUM 2

DATE	08/01/2025
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TITLE
LEGENDS AND SCHEDULES

SHEET NO.
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VALVE SCHEDULE

GENERAL NOTES FOR VALVES:

QUALITY ASSURANCE
VALVES SHALL COMPLY WITH ANSI, ASTM AND ASME.

VALVES ON DOMESTIC WATER SYSTEMS SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

GROOVED END VALVES SHALL CONFORM TO ANSI/AWWA C-606.

PRODUCTS
WORKING PRESSURES SHALL EXCEED THOSE IMPOSED BY THE SERVICE APPLIED.

VALVES WHICH ARE INSULATED SHALL HAVE EXTENDED SHAFTS.

PROVIDE FLOW MEASURING GAUGES WITH COCKS, HOSES & CONNECTORS FOR BALANCING VALVES. PROVIDE METERING TOOL.

PROVIDE HOSE ADAPTORS ON DRAIN VALVES.

SWEAT END VALVES OF EQUAL CONSTRUCTION ARE ACCEPTABLE IN LIEU OF SCREWED ENDS.

IN MECHANICALLY JOINED SYSTEMS, VALVES OF EQUAL CONSTRUCTION WITH COMPATIBLE ENDS ARE ACCEPTABLE AND MAY BE MANUFACTURED BY THE COUPLING MANUFACTURER.

VALVE MANUFACTURERS:
BALL VALVES - NIBCO, WATTS, MILWAUKEE, APOLLO, CONBRACO, CRANE.
BALANCING VALVES - BELL & GOSSETT, ARMSTRONG, WATTS.
CHECK VALVES - NIBCO, STOCKHAM, WATTS.

EXECUTION
VALVES SHALL BE INSTALLED WITH STEM ABOVE CENTERLINE OF PIPE.

PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	LUB. PLUG
DOMESTIC WATER SERVICE 2" AND LARGER				D18		
DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER		B11, B14	C11, C13		E12	
DOMESTIC WATER (CW, HW, & HWR) 2.5" AND LARGER		B14	C12, C14 C16			
COMPRESSED AIR (175 PSI AND LESS) 2" AND SMALLER		B15				
INTERIOR NATURAL GAS 3" AND SMALLER		B17				
INTERIOR NATURAL GAS 4" AND LARGER						P11
EXTERIOR NATURAL GAS 2" AND SMALLER		B18				P12
EXTERIOR NATURAL GAS 3" AND LARGER						P11, P12

TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
B11	NIBCO T-585-80-LF, 150 W.S.P., 2 PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND STEM, TFE SEAT AND SEAL, HANDLE. NSF/ASME 61	**C11**	NIBCO T-413-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT RING. NSF 61	**D18**	KENNEDY KS-FW 8068A, 200 PSI, NSF 61 EPOXY COATED CAST IRON BODY, RESILIENT WEDGE, O.S.& Y., FLANGED ENDS
B14	APOLLO 70LF-240, 150 WSP, 2 PIECE LEAD-FREE BRONZE BODY, 316 STAINLESS STEEL BALL AND STEM, STANDARD PORT, TEFLON SEAT AND SEAL, HANDLE, NSF/ASME 61	**C12**	NIBCO F-938-33, 285 PSI C.W.P., DUCTILE IRON BODY, STAINLESS STEEL TRIM, FLANGED ENDS, RENEWABLE STAINLESS STEEL SWING DISC AND SEAT RING. NSF/ANSI 61-8	**E12**	ADJ, THERMOSTATIC, BALANCE, CALEFFI THEROSETTER LOW-LEAD BRASS BODY WITH ISOLATION VALVES AND TEMP GAUGE, EPDM SEATS, CALIBRATED NAMEPLATE, HANDLE WITH MEMORY STOP, NSF/ASME 61
B15	NIBCO T-580-CS-R-66 1500 W.O.G., 2 PIECE CARBON STEEL BODY, SCREWED ENDS, STAINLESS STEEL BALL AND STEM, TFE SEAT AND SEAL, HANDLE.	**C13**	NIBCO T-480-Y-LF, 125 W.S.P., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, BRONZE BODY, SCREWED ENDS, TFE DISC AND SEAT RING, NSF/ASME 61	**P11**	NORDSTROM NO. 143, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH
B17	NIBCO T-FP-600A, 600 PSI NON-SHOCK COLD., 2 PIECE, BRASS BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE. UL LISTED FOR GAS. ASME B16.44	**C14**	NIBCO F-910-LF 125 W.O.G., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, GLOBE STYLE, IRON BODY FOR INSTALLATION BETWEEN FLANGES, BRONZE SEAT AND DISC. NSF/ASME 61	**P12**	NORDSTROM NO. 115, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH ASME B16.33
B18	NIBCO T-585(OR 580)-70-UL, 600 PSI NON-SHOCK COLD, 2 PIECE, BRONZE BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE. UL LISTED FOR GAS. ASME B16.33	**C16**	WATTS SERIES LFWCV, 125 W.S.P. BRONZE BODY, SCREWED ENDS, BRONZE SWING DISC, NSF/ASME 61		

PIPE INSULATION SCHEDULE - PLUMBING

GENERAL NOTES:

QUALITY ASSURANCE
FIRE, SMOKE RATINGS: FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS.

THICKNESSES SHALL CONFORM TO ASHRAE 90.1 MINIMUMS.

GREEN GUARD INDOOR AIR QUALITY CERTIFIED.

EXECUTION
INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

COLD SERVICE PIPE INSULATION AND VAPOR BARRIER/JACKET TO BE CONTINUOUS THRU FLOOR AND WALL SLEEVES AT ALL PIPE DEVICES AND PUMP CASINGS.

INSULATION AND VAPOR BARRIER TO BE CONTINUOUS AT PIPE HANGERS AND SUPPORTS ON HORIZONTAL PIPING.

VERTICAL PIPE SUPPORTS SHALL ATTACH DIRECTLY TO PIPE. INSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE CLOSED CELL INSULATION, SAME THICKNESS AS SYSTEM INSULATION ON COLD SERVICE PIPES TO PREVENT CONDENSATION.

INSULATION MAY BE OMITTED ON HOT WATER VALVES AND DEVICES 2" AND SMALLER PIPE SIZE.

PRIMARY AND SECONDARY ROOF DRAIN SUMPS SHALL BE INSULATED WITH 1" THICK INSULATION.

THE FIRST 10 FEET OF SECONDARY STORM PIPING AFTER THE DRAIN SHALL BE INSULATED.

ABOVE GRADE SANITARY DRAINAGE RECEIVING CONDENSATE SHALL BE INSULATED AS INDICATED BELOW FOR CONDENSATE DRAINAGE. WHERE THE DRAIN SUMP IS EXPOSED ON THE FLOOR BELOW, IT TOO SHALL BE INSULATED WITH 1" INSULATION.

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
DOMESTIC COLD WATER 1.5" & SMALLER	0.5"	F1	**INTERIOR**
DOMESTIC COLD WATER 2" & LARGER	1"	F1	**INTERIOR**
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.25" AND SMALLER	1"	F1	**INTERIOR**
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.5" AND LARGER	1.5"	F1	**INTERIOR**
INTERIOR HORIZONTAL STORM DRAINAGE	1"	F1	**INTERIOR**
CONDENSATE DRAINAGE	1"	F1	**INTERIOR**

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS-CORNING SSL1-ASJ	KNAUF 1000° PIPE, JOHNS MANVILLE MICRO-LOK HP	* INORGANIC GLASS FIBER WITH RESIN BONDING. * K=0.24 @ 100 DEG. F. * 3.5 - 5.5 PCF. * PREFORMED TUBULAR. * WHITE FSRK JACKET. * LONGITUDINAL LAP WITH SELF-SEALING ADHESIVE. * ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.

BUILDING DRAIN SYSTEMS SCHEDULE STORM, SANITARY, & VENT

GENERAL NOTES:

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

ON PIPING 5" AND LARGER PROVIDE BRACING AT EVERY BRANCH OPENING OR CHANGE IN DIRECTION AS REQUIRED BY CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

INSTALL PVC SOIL AND WASTE DRAINAGE AND VENT PIPING ACCORDING TO ASTM D 2665.

PRODUCTS
PVC PIPING SHALL NOT BE USED IN SPACES USED AS PLENUMS.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

LAY BURIED BUILDING DRAINAGE PIPING BEGINNING AT LOW POINT OF EACH SYSTEM. INSTALL TRUE TO GRADES AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

SLOPE DRAINAGE PIPING AT 1/4" PER FOOT (2%) FOR PIPING SMALLER THAN 3" AND 1/8" PER FOOT (1%) FOR PIPING 3" AND LARGER.

VENT PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

COUPLINGS AND GASKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG-SWEEP BENDS. SANITARY TEES AND SHORT-SWEEP 1/4 BENDS MAY BE USED ON VERTICAL STACKS IF CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL.

DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.

TESTING
PIPING SHALL BE TESTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

PIPING SYSTEM	TYPE
SANITARY PIPING BELOW FLOOR SLAB IN GRADE	P1
SANITARY & VENT PIPING ABOVE THE FLOOR	CI1, CI2
STORM DRAINAGE BELOW THE FLOOR IN SLAB	P1, CI1, CI2, CI3
STORM DRAINAGE ABOVE FLOOR	P1, CI1, CI2, CI3
INDIRECT DRAINS/CONDENSATE DRAIN LINES 1" & SMALLER	C1, C5, C8

TYPE	DESCRIPTION	TYPE	DESCRIPTION
CI1	**NO-HUB CAST IRON (STD)** SERVICE WEIGHT ASTM A888 OR CISPI 301 SHIELDED COUPLINGS ASTM C1277 OR CISPI 310 RUBBER SLEEVE ASTM C564	**C1**	**SOLDERED COPPER** TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER
CI2	**HUB & SPIGOT CAST IRON** ASTM A74, SERVICE CLASS DWV FITTING RUBBER GASKET ASTM C564	**C5**	**PRESS-FIT COPPER** TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS
P1	**PVC** SCHEDULE 40 PVC ASTM D2665 AND D2321 DWV FITTINGS, ASTM D3311 GLUED JOINTS	**C8**	**TYPE "K" SOFT COPPER** ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER

BUILDING SUPPLY SYSTEMS SCHEDULE WATER, COMPRESSED AIR, & GAS

GENERAL NOTES:

QUALITY ASSURANCE
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

ALL COMPONENTS OF DOMESTIC WATER SYSTEMS (CW, HW, & HWR) SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

PRODUCTS
DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.

GAS PRESSURE REGULATORS SHALL BE CAST IRON SELF-OPERATING SPRING LOADED TYPE. VALVE 125 PSI. SPRING AND DIAPHRAGM CASINGS SHALL BE ALUMINUM. REGULATOR SHALL HAVE AN INTERNAL RELIEF VALVE ASSEMBLY, TAPPED VENT CONNECTION WITH REMOVABLE SCREEN ON THE SPRING CASING AND AN EXTERNAL PILOT OPERATOR TO AFFORD A 5% MAXIMUM DROOP. OVER-PRESSURE PROTECTION SHALL BE TEN TIMES THE INLET PRESSURE (OR HIGHER AS MAY BE REQUIRED BY THE GAS COMPANY). FISHER TYPE S102 OR S202 OR EQUAL BY SPRAGUE OR EQUIMETER.

UNIONS
COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS
THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS.

MECHANICALLY FORMED TEES AND COUPLINGS (T-DRILL) ARE NOT PERMITTED.

EXECUTION
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GAS PRESSURE REGULATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE VALVED GAUGE TAPS UPSTREAM AND DOWNSTREAM OF THE REGULATOR. VENT PIPING SHALL BE EXTENDED INDIVIDUALLY FROM EACH REGULATOR AND GAS VENTING DEVICE TO OUTSIDE THE BUILDING IN AN APPROVED LOCATION.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

CLEAN INTERIOR WATER PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.

ALL NEW AND EXISTING DOMESTIC WATER PIPING SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651-86. DOMESTIC WATER PIPING SHALL BE SANITIZED PRIOR TO PUTTING SYSTEM IN OPERATION BY A COMPANY OR PERSONNEL REGULARLY ENGAGED IN THE PERFORMANCE OF THIS SERVICE.

EXTERIOR NATURAL GAS PIPING SHALL BE PAINTED WITH 2 COATED OF EXTERIOR GRADE PAINT FOR PROTECTION.

TESTING
DOMESTIC WATER PIPING - 125 PSI FOR MIN. 6 HOURS AT THE LOW POINT IN THE SYSTEM.

NATURAL GAS PIPING - 100 PSI COMPRESSED AIR FOR 6 HOURS.

PIPING SYSTEM	TYPE
DOMESTIC WATER SERVICE PIPING 3" & LARGER	D1
DOMESTIC COLD, HOT AND RECIRCULATING WATER	C1, C4, C5, P2
NATURAL GAS ABOVE GROUND AT PRESSURES 5 PSI & LESS	S1, S2, S6
MISCELLANEOUS UNDERGROUND NATURAL GAS (OUTSIDE OF BUILDING)	PE1

TYPE	DESCRIPTION	TYPE	DESCRIPTION
C1	**SOLDERED COPPER** TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER	**S1**	**WELDED BLACK STEEL** SCHEDULE 40, ASTM A53 TYPE E WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M 150 LB. C.I. FITTINGS
C4	**GROOVED COPPER** TYPE "L" HARD COPPER ASTM B88 COPPER ASTM B75 UNS C12200 FITTINGS VICTAULIC STYLE 607 COUPLING	**S2**	**THREADED BLACK STEEL** SCHEDULE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS
C5	**PRESS-FIT COPPER** TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS	**S6**	**PRESS-FIT BLACK STEEL** SCHEDULE 40, ASTM A53 TYPE E CARBON STEEL FITTINGS: ASTM A420 OR ASTM B16.3, ANSI LC-4/CSA 6.32, & ASTM F3226
D1	**DUCTILE IRON** ANSI A21.51 & AWWA CLASS 53 OR 51 250 LB. FITTINGS FLANGED FITTINGS	**PE1**	**POLYETHYLENE** PE 2306, 2406 TYPE II GRADE 3, PE 3406, 3408 TYPE III, ASTM D2513 HEAT FUSION JOINTS

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TITLE
MATERIAL SCHEDULES

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PROJECT # 24065

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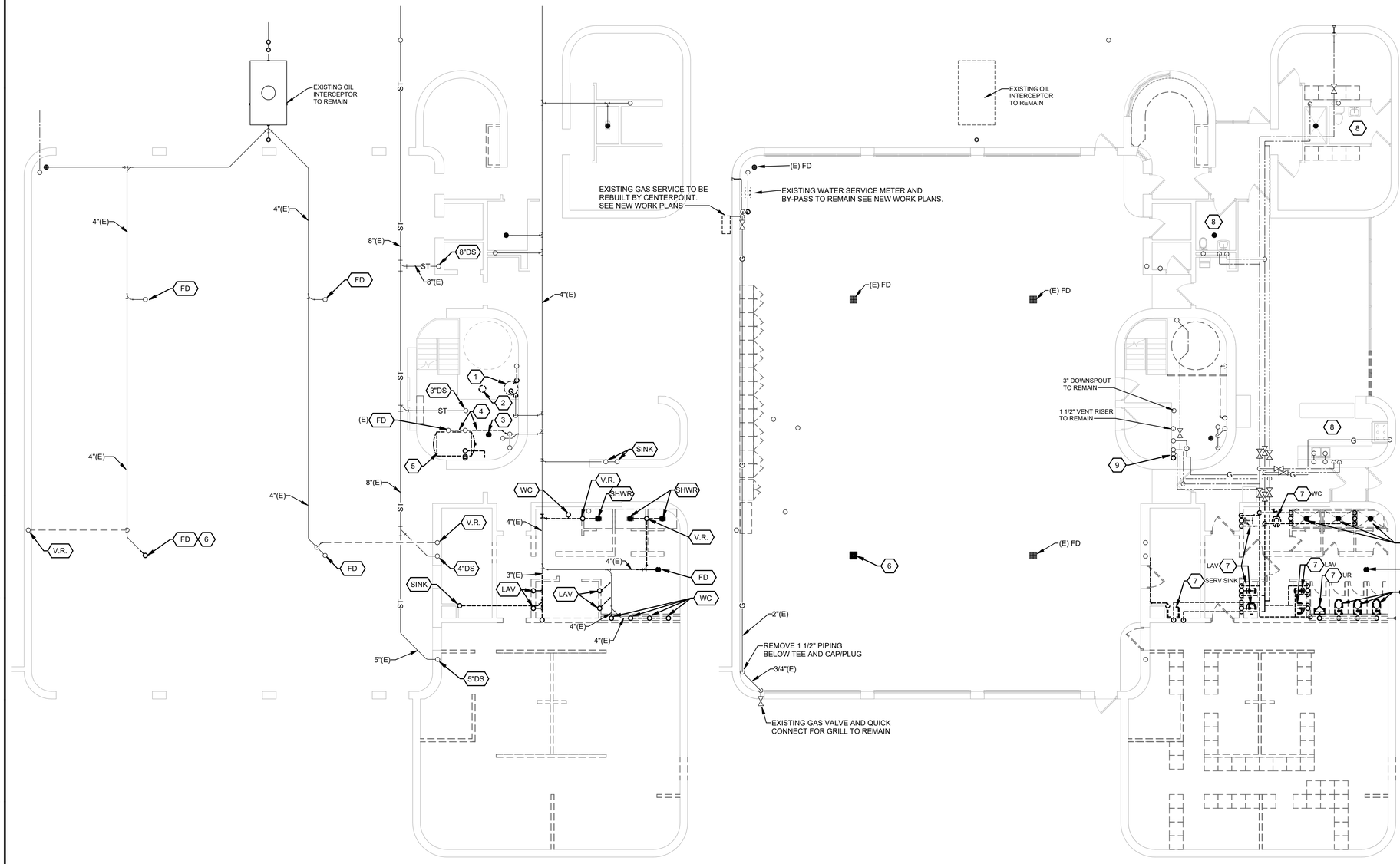

CONSTRUCTION NOTES

1. REMOVE EXISTING PIT SEWAGE EJECTOR.
2. REMOVE/ ABANDON EXISTING FLOOR DRAIN IN PIT.
3. REMOVE EXISTING FLOOR DRAIN.
4. REPLACE EXISTING 3" SANITARY IN SAME PLACE.
5. REMOVE EXISTING DECOMISSIONED DOMESTIC WATER TANK WITH HEAT EXCHANGER AND ALL ASSOCIATED EXTRANEOUS PIPING.
6. REMOVE EXISTING FLOOR DRAIN AND TRAP. SEE NEW WORK PLAN.
7. REMOVE EXISTING FIXTURE AND ALL EXTRANEOUS PIPING.
8. NO WORK ANTICIPATED IN THIS AREA.
9. REMOVE 1 1/2" COLD WATER, 1 1/2" HOT WATER, AND 3/4" HOT WATER RETURN PIPING DROPS INTO BASEMENT. CAP BELOW ACTIVE BRANCH.

BASEMENT & UNDERFLOOR DEMOLITION PLAN

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

FIRST FLOOR DEMOLITION PLAN

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

0 4 8 16 24 32 40

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

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TITLE
BASEMENT AND FIRST FLOOR DEMOLITION PLANS

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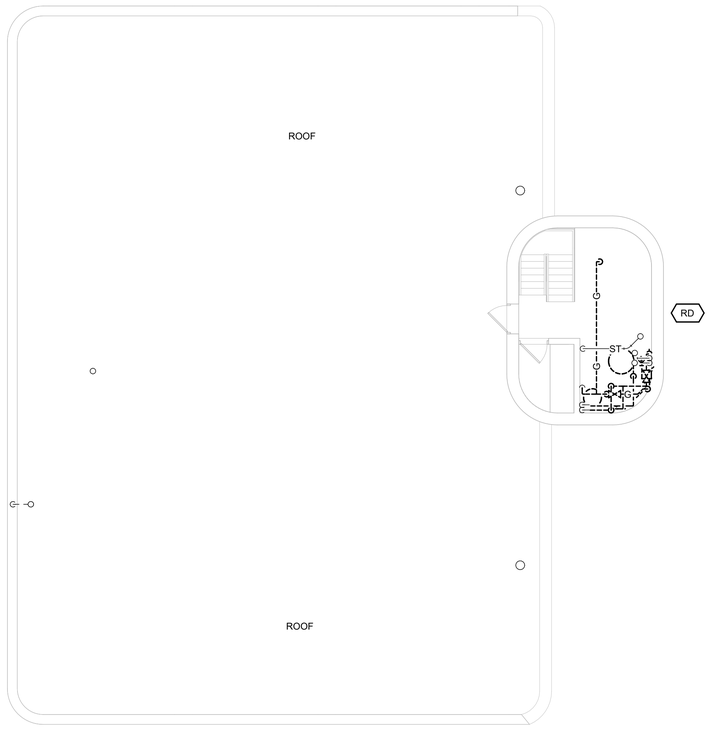
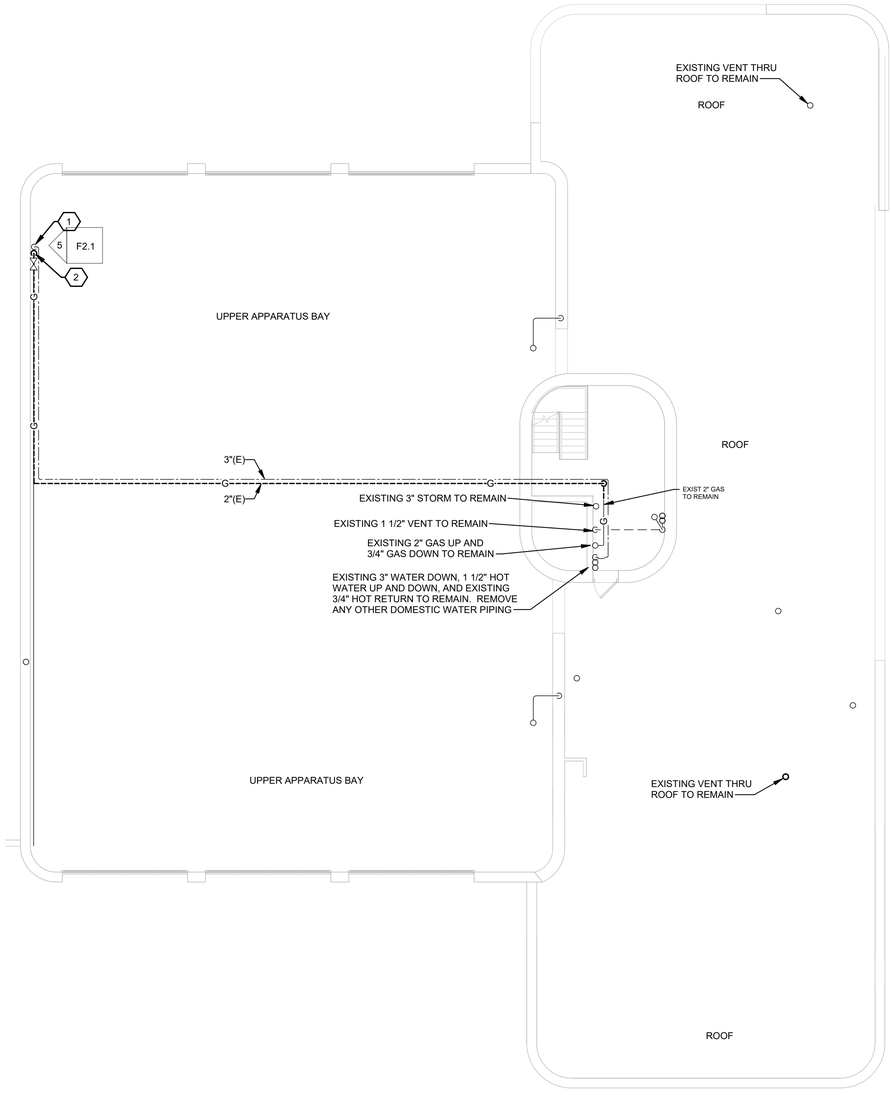
CONSTRUCTION NOTES

1. EXISTING 3" WATERRISER FOM WATER SERVICE TO REMAIN.
2. REMOVE EXISTING 2" NATURAL GAS DOWN TO 3 TEE. SEE NEW WORK PLAN.



THIRD FLOOR DEMOLITION PLAN

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



SECOND FLOOR AND UPPER APPARATUS BAY DEMOLITION PLAN

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

0 4 8 16 24 32 40

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

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NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DEG
CHECKED	JDZ

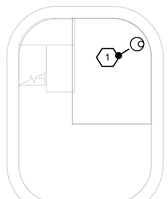
TITLE
SECOND AND THIRD FLOOR DEMOLITION PLANS

SHEET NO.
P1.2

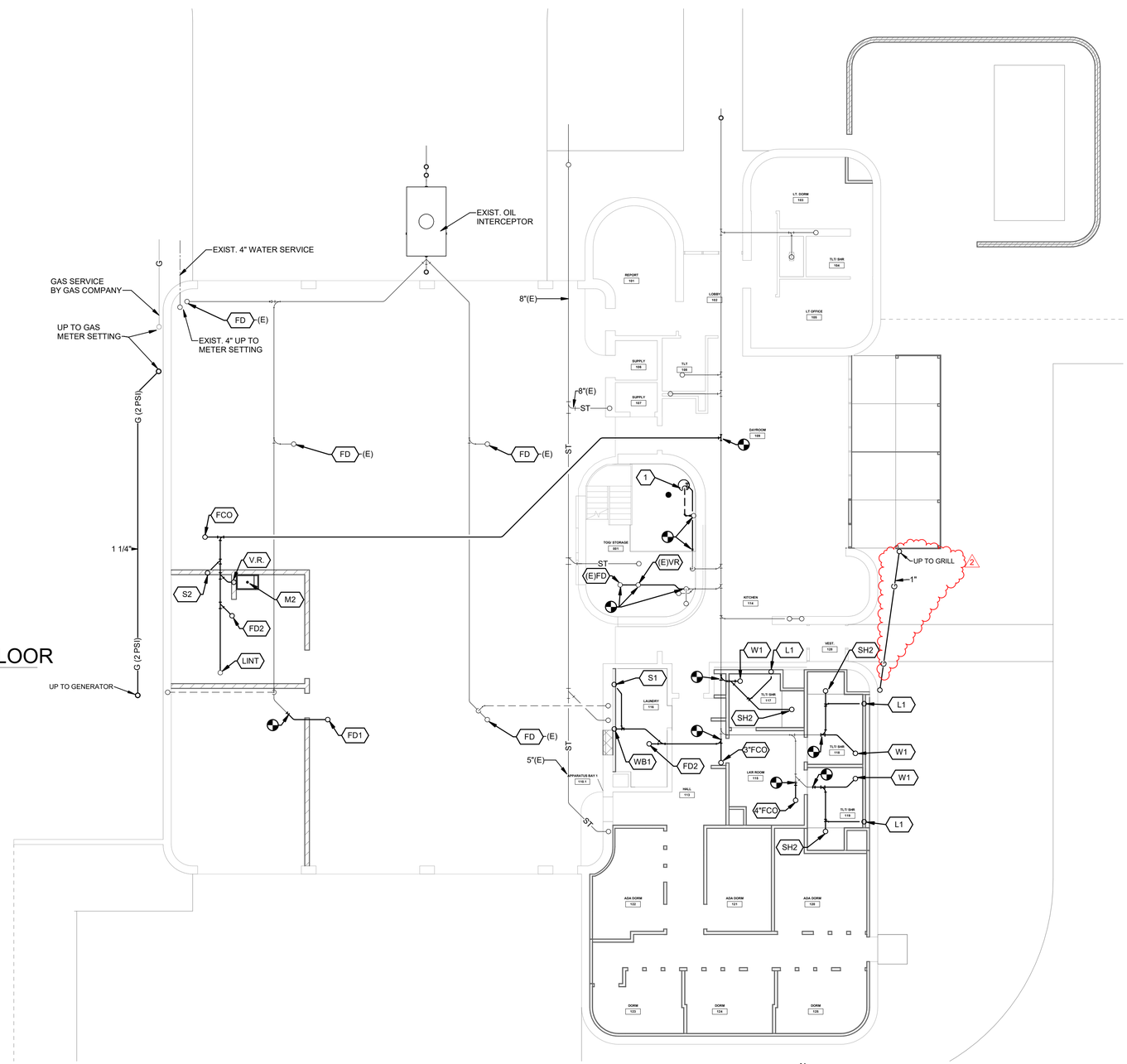
7/31/2025 3:18:46 PM

CONSTRUCTION NOTES

1. SEWAGE EJECTOR PACKAGED SYSTEM WITH 18" DIAMETER BY 30" DEEP SUMP WITH LID, 04 HP PUMP AND ALARM. LOCATED IN PIT INFILL AREA. ZOELLER # 912-1087 OR APPROVED EQUAL. PROVIDE CHECK VALVE/ SHUT-OFF/ UNION COMBINATION ZOELLER # 30-0101 OR APPROVED EQUAL ON DISCHARGE. CONNECT VENT AND DISCHARGE TO THOSE FROM REMOVE SEWAGE EJECTOR.



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



BASEMENT & UNDERFLOOR PLAN
SCALE: 1/8" = 1'-0"

0 4 8 16 24 32 40
SCALE: 1/8"=1'-0"

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

CITY OF DAYTON
DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, Ohio, 45420

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2	10/08/2025	ADDENDUM 2

DATE	08/01/2025
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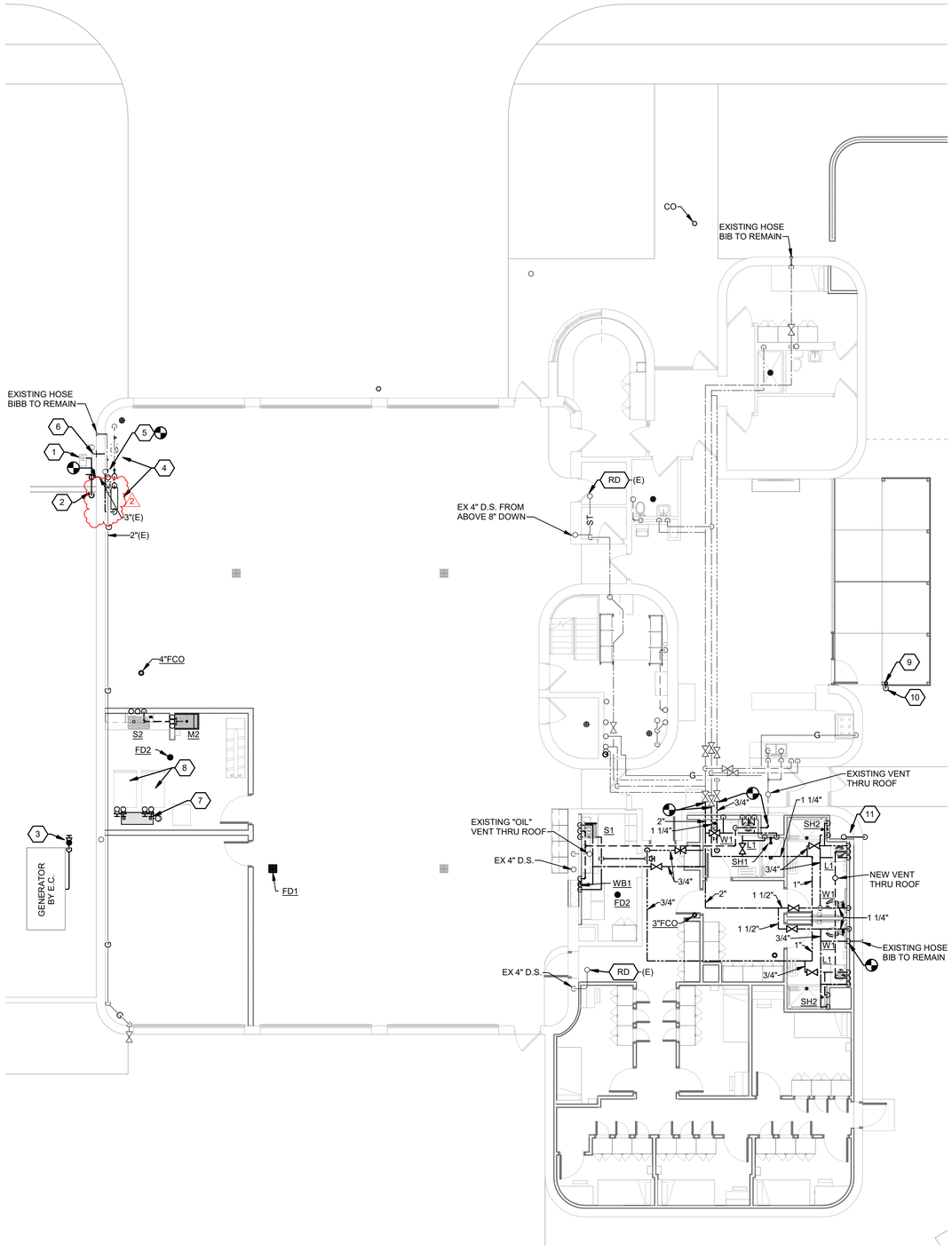
TITLE
BASEMENT AND UNDERFLOOR PLAN

SHEET NO.
P2.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 24065

10/9/2025 9:08:37 AM



CONSTRUCTION NOTES

1. NEW GAS METER AND REGULATOR SETTING BY CENTERPOINT. CONNECT TO OUTLET. ALL EXPOSED METAL PIPING SHALL BE PAINTED FOR PROTECTION. REFER TO GAS SERVICE DETAIL
2. RUN 1 1/4" GAS PIPING (@ 2 PSI) THRU WALL, SLEEVE PIPING THRU WALL (NO SEAL REQUIRED), DROP 1" GAS PIPING INTO GRADE TO SERVE GENERATOR. SEE UNDERFLOOR PIPING PLAN FOR CONTINUATION. PROVIDE ANODELESS RISER.
3. 1" NATURAL GAS FROM BELOW GRADE. PROVIDE ANODELESS RISER, VALVE AND CONNECT TO GENERATOR PROVIDE FULL SIZE DIRT LEG AND A UNION AT THE CONNECTION. SEE GAS SERVICE DETAIL SHEET P3.1. ALL EXPOSED METAL PIPING SHALL BE PAINTED FOR PROTECTION.
4. WATER SERVICE. SEE DETAIL SHEET P3.1.
5. CONNECT TO EXISTING 3" DOMESTIC WATER RISER UP TO APPRARATUS BAY CEILING. SEE SECOND FLOOR PLAN FOR CONTINUATION.
6. 6" BACKFLOW PREVENTOR EMERGENCY DISCHARGE. SEE WATER SERVICE DETAIL SHEET P3.1.
7. EXISTING LINT TRAP AND ASSOCIATED PIPING TO BE RELAOCATED WITH EXTRACTORS. THE P.C. IS TO RELOCATED THE UNIT AND ASSOCIATED DRAINS FROM EXTRACTORS.
8. RELOCATED EXTRACTORS. CONNECT 3/4" HOT AND COLD WATER TO UNIT.
9. GAS SUPPLY BOX FOR GRILL. BURNABY # BBQ-SS50 OR APPROVED EQUAL.MOUNT APPROX. 1' -6" A.F.F. PROVIDE 10' BBQ HOSE BURNABY # 324394.
10. DROP 1" GAS SERVING GAS GRILL INTO GRADE. PROVIDE ANODELESS RISER. SEE UNDERFLOOR PIPING PLAN FOR CONTINUATION.
11. 1" GAS PIPING FROM ROOF TO GRILL. DROP PIPING IN CHASE TO APPROX. 1' - 6" A.F.F. BEFORE LEAVING THE BUILDING AND DROP INTO GRADE. PROVIDE ANODELESS RISER.

FIRST FLOOR PLAN

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

0 4 8 16 24 32 40

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

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TITLE
FIRST FLOOR PLAN

SHEET NO.
P2.2

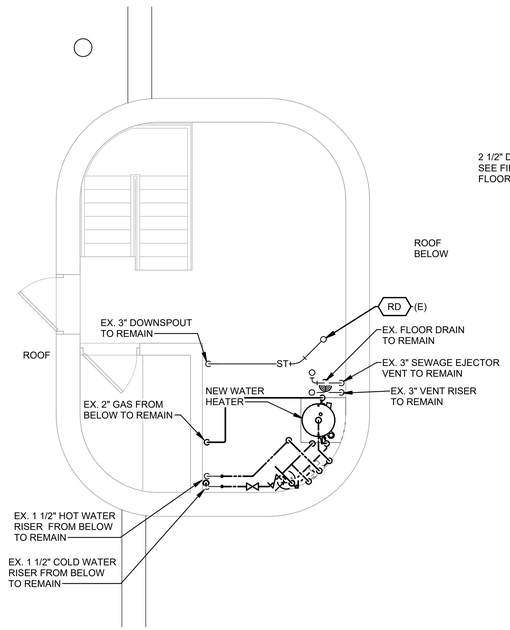
NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 24065

10/8/2025 9:58:39 AM

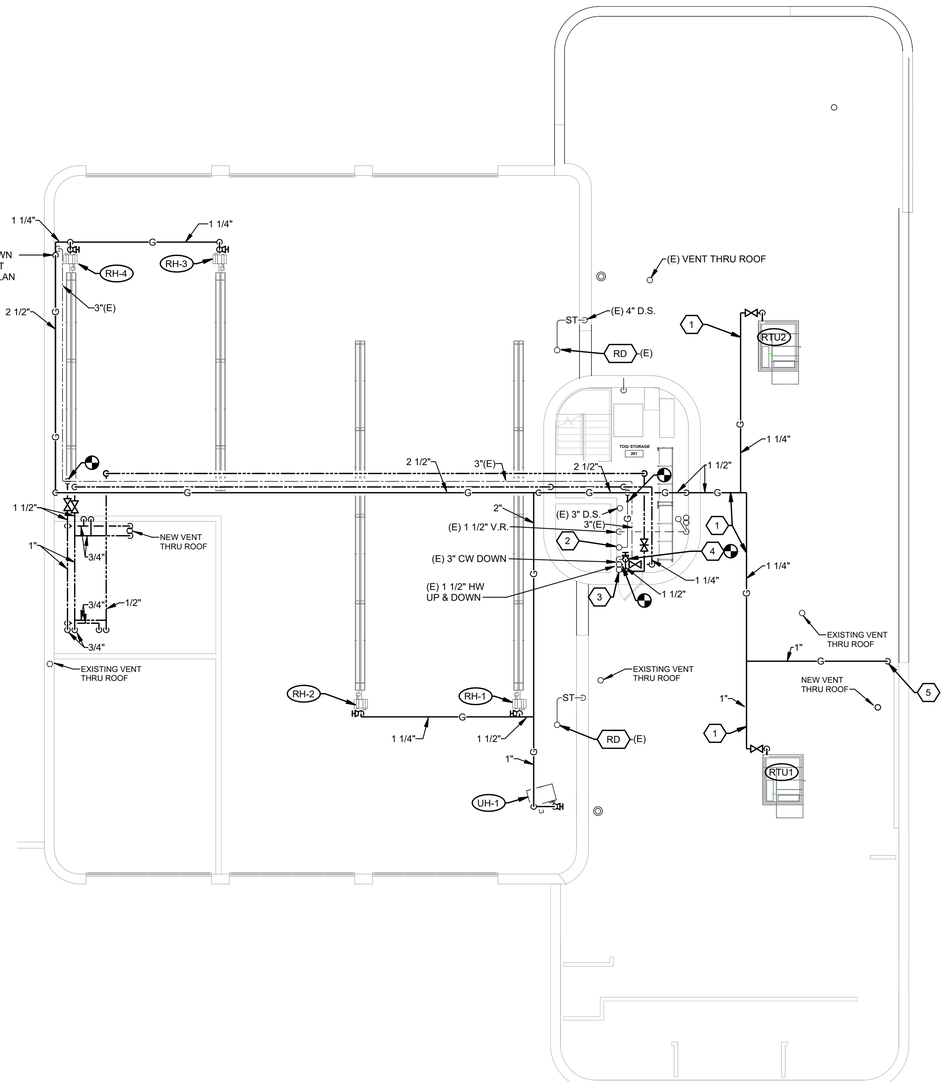
CONSTRUCTION NOTES

1. NEW GAS PIPING RUNNING ACROSS ROOF. PROVIDE PIPING SUPPORT (SPACED SAME AS PIPE HANGERS) MIFAB # CR10-3 OR APPROVED EQUAL.
2. EXISTING 2" GAS UP TO THIRD FLOOR AND 3/4" GAS DOWN TO FIRST FLOOR.
3. CONNECT TO EXISTING 1 1/2" COLD WATER RISER UP TO THIRD FLOOR.
4. CONNECT TO EXISTING 3" COLD WATER VALVE AND EXTEND NEW 1 1/2" COLD WATER TO EXISTING (SEE NOTE 3).
5. DROP 1" GAS THRU ROOF INTO CHASE. SEE FIRST FLOOR FOR CONTINUATION.



THIRD FLOOR PLAN

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



SECOND FLOOR AND UPPER APPARATUS BAY PLAN

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

0 4 8 16 24 32 40

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

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TITLE
SECOND FLOOR AND UPPER APPARATUS BAY PLAN

SHEET NO.
P2.3

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204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 24065

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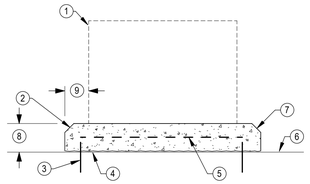
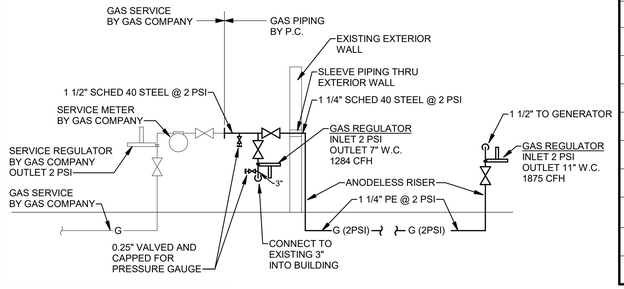


1. OUTLINE OF EQUIPMENT.
2. 4,000 PSI CONCRETE.
3. 1-#4 DOWEL, 6" LONG, EACH CORNER.
4. ROUGHEN SLAB & APPLY BONDING AGENT.
5. STEEL REINFORCING MESH.
6. FINISHED CONCRETE FLOOR.
7. 45 DEG. CHAMFER ALL AROUND.
8. 4" THICK CONCRETE SLAB.
9. MINIMUM 2" DISTANCE.

NOTE: OVERALL DIMENSION TO BE DETERMINED BY CONTRACTOR.

3 INTERIOR CONCRETE EQUIPMENT PAD
N.T.S.

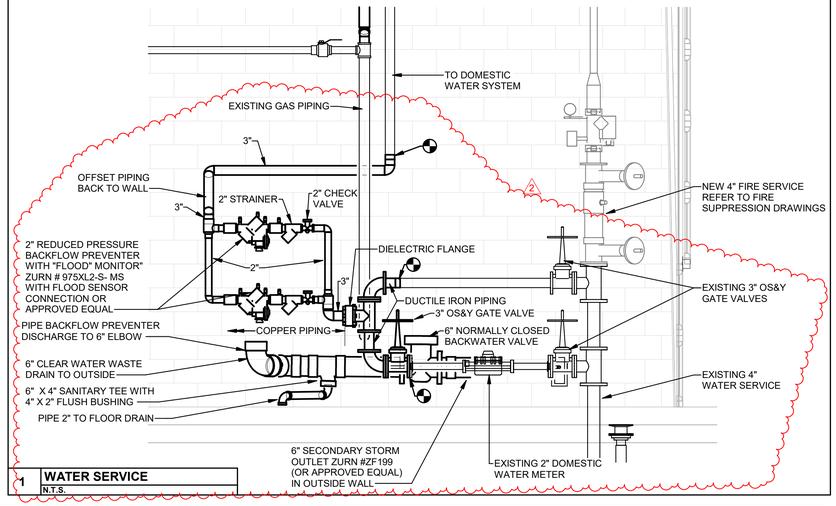


2 GAS SERVICE SCHEMATIC
N.T.S.

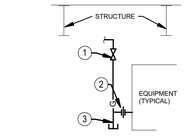
GAS LOAD SCHEDULE

GENERAL NOTES
- PIPING SIZED USING THE LONGEST LENGTH METHOD.
- LOW PRESSURE (7" W.C.) GAS PIPING SIZED USING TABLE 402.4(2) OF THE 2022 IFC. 2

ITEM	LOAD
UH-1 - GAS FIRE UNIT HEATER	125 CFH
RH-4 - 25' GAS FIRED RADIANT HEATER	85 CFH
RH-3 - 25' GAS FIRED RADIANT HEATER	85 CFH
RH-2 - 40' GAS FIRED RADIANT HEATER	155 CFH
RH1 - 40' GAS FIRED RADIANT HEATER	155 CFH
RTU-1 - ROOF TOP UNIT	120 CFH
RTU-2 - ROOF TOP UNIT	160 CFH
WH1 - WATER HEATER	199 CFH
EXISTING RANGE	200 CFH
BUILDING TOTAL	**1,284 CFH**
STAND-BY GENERATOR	1,875 CFH
SERVICE TOTAL	**3,159 CFH**

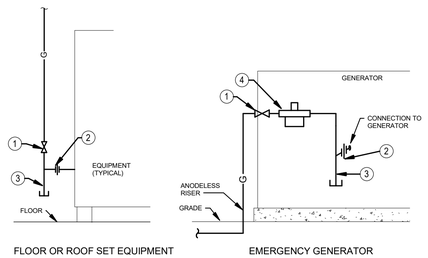


1 WATER SERVICE
N.T.S.



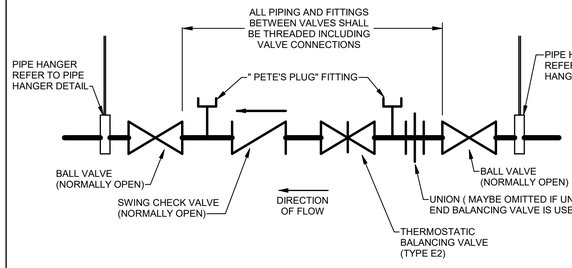
SUSPENDED EQUIPMENT

1. GAS VALVE.
2. UNION.
3. FULL SIZE DIRT LEG.
4. PRESSURE REGULATOR.



FLOOR OR ROOF SET EQUIPMENT — EMERGENCY GENERATOR

6 GAS CONNECTIONS
N.T.S.



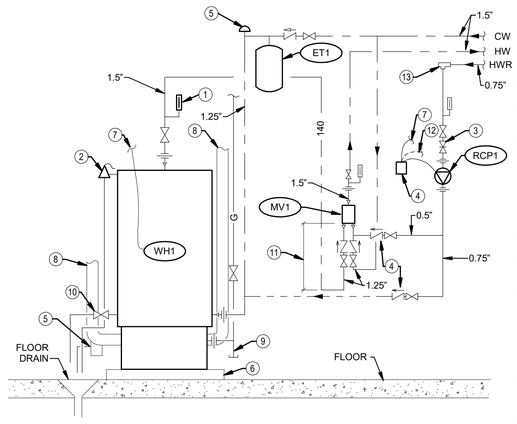
5 DOMESTIC HOT WATER RETURN BRANCH LINE VALVING
SCALE: N.T.S

WH1 **WATER HEATER #1**
GAS FIRED TANK TYPE HEATER W/ ST.ST. TANK AND HEAT EXCHANGER.
STORAGE - 50 GALLONS NOM.
RECOVERY - 253 GPH @ 90°F RISE
INPUT - 199,000 CFH
GAS PRESSURE - 7" W.C.
ELECTRICAL - 120V 1 PH
BASIS OF DESIGN - A.O.SMITH # GTP 199 OR APPROVED EQUAL.

RCP1 HOT WATER RECIRC. PUMP #1
CAPACITY - 3 GPM @ 5 FT. HD
ELECTRICAL - 120V/1PH, 0.4 AMPS
BASIS OF DESIGN - B&G # NBF-9U/LW OR APPROVED EQUAL.

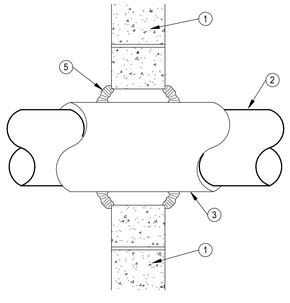
MV1 120° HOT WATER DIGITAL MIXING VALVE
CAPACITY - 50 GPM @ 5 PSI LOSS
MINIMUM FLOW - 3 GPM
BASIS OF DESIGN - POWERS INTELLISTATION 2 # ISO2100VL
SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS AND ADDITIONAL MANUFACTURERS.

ET1 EXPANSION TANK
BASIS OF DESIGN - AMTROL # 12C OR EQUAL.

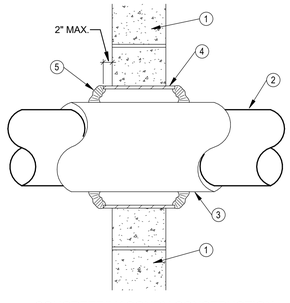


1. THERMOMETER. (TYPICAL).
2. T&P SAFETY RELIEF VALVE. PIPE DISCHARGE TO FLOOR DRAIN W/ 2" MIN. AIR GAP.
3. BALANCING VALVE. BALANCE AT 3 GPM.
4. MOTOR STARTER CONTROLLER BY E.C.
5. PROVIDE CONDENSATE NEUTRALIZER. PIPE TO DRAIN
6. 4" CONCRETE PAD.
7. ELECTRICAL POWER CONNECTION BY E.C.
8. COMBUSTION AIR AND VENT FLUES TO BE EXTENDED OUTDOORS BY H.C..
9. FULL-SIZED DIRT LEG.
10. DRAIN VALVE. PIPE DISCHARGE TO FLOOR DRAIN WITH 2" MIN. AIR GAP.
11. HEAT TRAP PER MIXING VALVE MANUFACTURER'S RECOMMENDATION.
12. CONTROL WIRING BY H.C. TO BAS SYSTEM FOR TIMECLOCK CONTROL OF RECIRCULATION PUMP.
13. IMMERSION STAT BY H.C. FOR TEMPERATURE CONTROL OF RECIRCULATION PUMP.

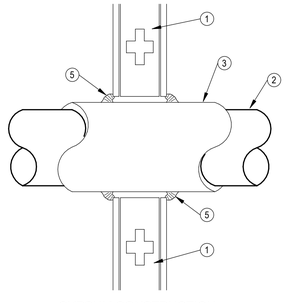
4 DOMESTIC WATER HEATER
N.T.S.



CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



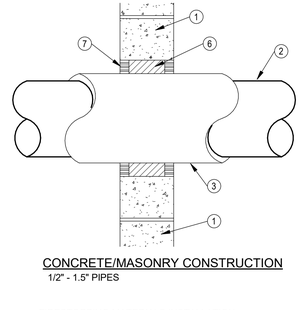
CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES



GYPSUM CONSTRUCTION
ALL PIPE SIZES

1. FULL HEIGHT INTERIOR WALL.
2. PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
5. CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

8 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.



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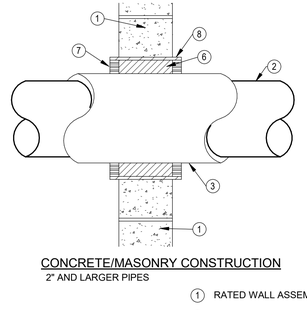
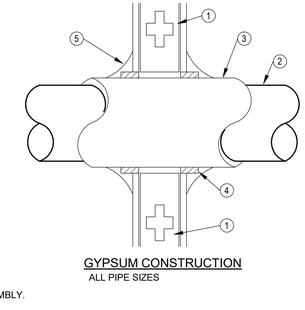


CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES



GYPSUM CONSTRUCTION
ALL PIPE SIZES

FIRESTOPPING MATERIALS INSTALLATION

- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

1. RATED WALL ASSEMBLY.
2. METALLIC PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
5. APPROVED FIRESTOPPING CAULK OR SEALANT.
6. PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
7. APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
8. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

7 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.

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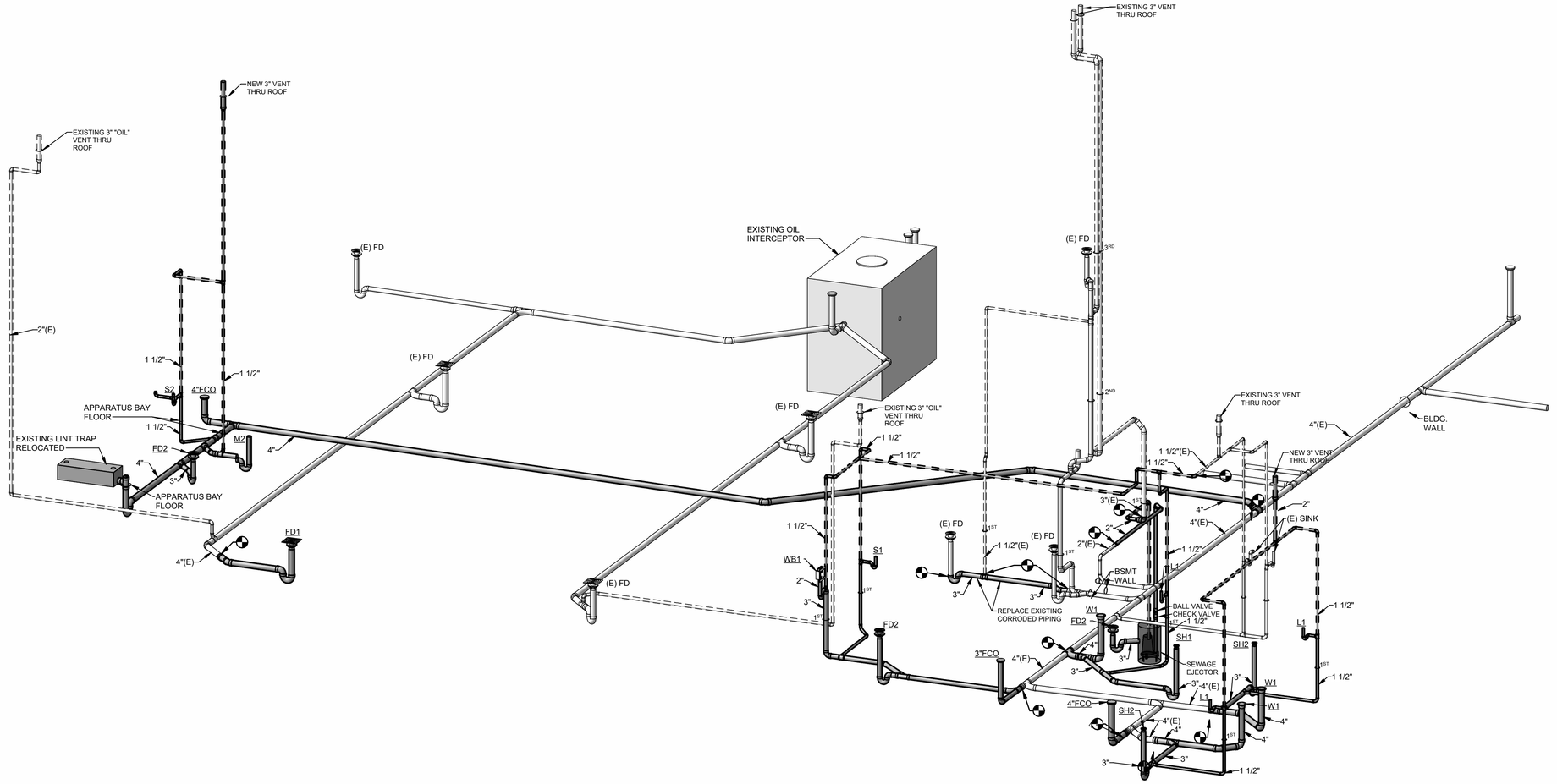

SOIL, WASTE, AND VENT DIAGRAM

N.T.S

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GENERAL HVAC REMOVAL NOTES

A. GENERAL - THIS REMOVAL PLAN HAS BEEN MADE TO ASSIST THE CONTRACTOR IN DETERMINING GENERAL SCOPE OF REMOVALS. THESE DRAWINGS SHALL NEITHER BE CONSIDERED AS SHOWING ALL REMOVAL ITEMS NOR SHALL IT BE CONSIDERED A SUBSTITUTE FOR A THOROUGH SITE INVESTIGATION. NO ALLOWANCE SHALL BE MADE FOR LACK OF KNOWLEDGE CONCERNING EXISTING SITE CONDITIONS. ALL PIPE AND/OR DUCTWORK SHALL BE MADE CONTINUOUS TO ANY ACTIVE EQUIPMENT PAST THE ITEM(S) BEING REMOVED.

B. GENERAL REMOVALS - THE HVAC CONTRACTOR IS TO REMOVE ALL EXISTING, ACCESSIBLE UNUSED OR ABANDONED DEVICES, PIPING, WIRING, DUCTWORK AND SUPPORT HANGERS OR STRUCTURES TOTALLY BACK TO SOURCE. IN NO CASE SHALL ANY ABANDONED PIPING, WIRING, DUCTWORK, OR EQUIPMENT REMAIN WITHIN THE CONSTRUCTION AREA OR IN ADJACENT AREAS TO MECHANICAL ROOMS OR CLOSETS. ONLY ITEMS THAT ARE INACCESSIBLE SHALL BE ALLOWED TO BE ABANDONED IN PLACE WITH ALL ACCESSIBLE SERVICES APPROPRIATELY CAPPED.

C. SUPPORTS REMOVALS - ALL SUPPORTS SHALL BE REMOVED ENTIRELY FROM DEMOLISHED PIPING, DUCTWORK AND EQUIPMENT. REMAINING ACTIVE PIPING, DUCTWORK, ETC. SHALL BE RE-SUPPORTED AS REQUIRED WHERE EXISTING SUPPORTS ARE REMOVED, AS IN THE CASE OF DUCTWORK OR PIPING, WHICH IS BEING REMOVED OR WHERE EXISTING SUPPORTS/LOCATION CONFLICTS WITH NEW UTILITIES. NEW SUPPORTS SHALL UTILIZE APPROVED AND RECOGNIZED MATERIALS AND METHODS AND BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS.

D. WALL REMOVALS - RECESSED DEVICES TO BE ABANDONED IN EXISTING WALLS WHICH ARE TO REMAIN IN FINISHED AREAS SHALL BE COVERED BY SUITABLE BLANK COVER PLATES AND PAINTED TO MATCH FINISH. WHERE REMOVALS ARE COMPLETELY REMOVED FROM FACE OF WALL, PATCH WALL CONSISTENT WITH ADJACENT FINISH. SURFACE MOUNTED REMOVED DEVICES SHALL HAVE SURFACE REPAIRED AND FINISHED TO MATCH ADJACENT EXISTING OR NEW ARCHITECTURAL FINISHES.

E. ROOF REMOVALS - DEVICES, SERVICES, SUPPORTS & EQUIPMENT REMOVED FROM ROOF SHALL BE REMOVED. THE HVAC CONTRACTOR SHALL ENGAGE A ROOFING CONTRACTOR TO PATCH THE ROOFING CONSISTENT WITH THE EXISTING ROOF WARRANTY.

F. ABANDONED SERVICES - ALL INACTIVE DUCT AND PIPE ABOVE CEILINGS SHALL BE REMOVED IN ENTIRETY AND CAPPED AT NEAREST ACTIVE MAINS.

G. EQUIPMENT REMOVAL/DISPOSAL COORDINATION - COORDINATE REMOVAL ITEMS CLOSELY WITH OWNER. ANY ITEMS REMOVED WITHIN THE CONSTRUCTION AREA SHALL BE TURNED OVER TO THE OWNER IN GOOD CONDITION WHEN INDICATED HEREIN OR WHEN SO REQUESTED BY THE OWNER. ALL OTHERS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REQUIRED TO BE DISPOSED OF ACCORDINGLY. DISPOSALS REGUALTED BY EPA SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST REQUIREMENTS AND DOCUMENTED.

H. PROTECTION - EXISTING MATERIALS AND FINISHES ARE TO BE PROTECTED AND RESTORED TO MATCH ADJACENT FINISHES. PROVIDE ADEQUATE PROTECTION TO ALL EXPOSED SURFACES AND EQUIPMENT WITHIN THE REMOVAL AREA.

I. ACTIVE EQUIPMENT & SERVICES - ANY EXISTING EQUIPMENT OR DEVICES TO REMAIN IN ADJACENT SPACES MADE INACTIVE BY REMOVAL OF DEVICES OR WIRING WITHIN THE CONSTRUCTION AREA SHALL BE RE-FED AS REQUIRED TO MAKE DEVICES OR EQUIPMENT OPERATIONAL.

J. DAMAGED SERVICES & INSULATION - EXISTING PIPING & DUCTWORK TO REMAIN WITH DAMAGED INSULATION ENCOUNTERED IN AREAS OF WORK SHALL HAVE DAMAGED INSULATION REMOVED AND REPLACED WITH NEW. INSULATION THICKNESS SHALL MATCH EXISTING CONDITION. WORK TO BE PERFORMED ON A TIME AND MATERIAL BASIS AS ENCOUNTERED. SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

K. OPENINGS & PATCHING - WHERE DUCTWORK, PIPING, EQUIPMENT, OR AIR DEVICES ARE REMOVED THROUGH WALLS, FLOORS, CEILINGS AND ROOF, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND FINISH CONSISTENT WITH THE EXISTING OR NEW ARCHITECTURAL FINISHES FOR THAT AREA. OPENINGS OR HOLES EXPOSED TO EXTERIOR CONDITIONS SHALL BE MADE WEATHER-TIGHT AND WATERPROOF AND CONSISTENT WITH ADJACENT WALL FINISHES. PATCHING AND SEALING TO BE CONSISTENT WITH FIRE AND SMOKE STOPPING AND RATING.

CMU WALLS - GROUT SMALL PENETRATIONS CLOSED. TOOTH IN WITH NEW BLOCKING FOR LARGE HOLES.
BRICK WALLS - TOOTH IN WITH NEW BRICK
GYPSUM BOARD WALLS - REPLACE WITH NEW GYPSUM BOARD
STRUCTURAL METAL ROOF/FLOOR DECKING - REPLACE WITH NEW DECKING, SAME AS EXISTING SIZE
CONCRETE FLOORS/WALLS - GROUT PENETRATIONS CLOSED
WOOD FLOORS/WALLS - PATCH CONSISTENT WITH WOOD TYPE

L. ASBESTOS REMOVALS - ANY MATERIAL SUSPECTED OF CONTAINING ASBESTOS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL IMMEDIATELY BE REPORTED TO OWNER AND PROJECT MANAGER. ALL WORK IN THAT AREA SHALL CEASE UNTIL DEEMED SAFE.

M. CEILING REMOVALS - THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL, STORAGE AND RE-INSTALLATION OF CEILING GRID AND TILES AS REQUIRED FOR WORK. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENTS, IF DAMAGED.

GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

GENERAL REQUIREMENTS - HVAC

1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
2. PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
3. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
4. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
5. EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR FAMILIAR WITH THE ROOFING SYSTEM. MAINTAIN ANY REMAINING ROOF WARRANTY.
6. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
7. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
8. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
9. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
10. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
11. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
12. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
13. PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
14. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
15. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
16. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
17. PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 16 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.

PIPING LEGEND

- INDICATES DIRECTION OF FLOW
- CD — CONDENSATE DRAIN
- L — REFRIGERANT - LIQUID
- S — REFRIGERANT - SUCTION
- HPG — REFRIGERANT - HIGH/LOW PRESSURE GAS
- S/L — REFRIGERANT - SUCTION & LIQUID, 2 PIPES TOTAL
- S/L/HG — REFRIGERANT - SUCTION, LIQUID, & HOT GAS 3 PIPES TOTAL
- 0.375"L 0.625"S — REFRIGERANT LINE SET BETWEEN BRANCH SELECTOR BOX AND FAN COIL UNIT. 0.375"L = LIQUID PIPE SIZE 0.625"S = SUCTION PIPE SIZE
- FLEXIBLE CONNECTION
- CAP
- CONNECTION, BOTTOM
- CONNECTION, TOP
- CONNECTION, SIDE
- ELBOW, 90°, LONG RADIUS
- ELBOW, 45°, LONG RADIUS
- ELBOW, TURNED UP
- ELBOW, TURNED DOWN
- REDUCER
- UNION, SCREWED
- PIPE HOSE THREAD CONNECTION
- P — PRESSURE GAUGE
- TEMPERATURE GAUGE
- MV — AIR VENT MV = MANUAL AV = AUTOMATIC

TEMPERATURE CONTROLS LEGEND

ABBREVIATIONS

A.I. - ANALOG INPUT
A.O. - ANALOG OUTPUT
AFMS - AIR FLOW MEASURING STATION
BAS - BUILDING AUTOMATION SYSTEM
DDC - DIRECT DIGITAL CONTROLS
D.I. - DIGITAL INPUT
D.O. - DIGITAL OUTPUT
ECM - ELECTRICALLY COMMUTATE MOTOR
E.W.T. - ENTERING WATER TEMPERATURE
L.W.T. - LEAVING WATER TEMPERATURE
M.C. - MASTER CONTROLLER
N.O. - NORMALLY OPEN
N.C. - NORMALLY CLOSED
SCR - SILICON CONTROLLED RECTIFIER
VFD - VARIABLE FREQUENCY DRIVE

SENSORS & TRANSMITTERS

- T — TEMPERATURE SENSOR
- H — HUMIDITY SENSOR
- TH — COMBINATION TEMPERATURE & HUMIDITY SENSOR
- TC — COMBINATION TEMPERATURE & CARBON DIOXIDE SENSOR
- P — PRESSURE SENSOR
- N — NITROGEN DIOXIDE (NO_2) SENSOR
- CO2 — CARBON DIOXIDE (CO_2) SENSOR
- C — CARBON MONOXIDE (CO) SENSOR
- CN — COMBINATION CARBON MONOXIDE & NITROGEN DIOXIDE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- E — ENTHALPY SENSOR
- PWT — PIPE WELL TYPE TEMPERATURE SENSOR
- PWF — PIPE WELL TYPE FLOW METER
- T — THERMOSTAT - LINE OR LOW VOLTAGE
- H — HUMIDISTAT
- R — RELAY

VALVES

- MOTORIZED TWO-WAY CONTROL VALVE
- MOTORIZED THREE-WAY CONTROL VALVE

DAMPERS

- M — MOTORIZED CONTROL DAMPER

OVER-RIDE TIMERS

- LV — OVERRIDE TIMER - LINE VOLTAGE
- OVERRIDE PUSH BUTTON - DIGITAL SIGNAL

GAUGES

- PDG — PRESSURE DIAL GAUGE - REFER TO SPECIFICATION FOR RANGES
  - AIRFLOW UNITS: IN. W.C.
  - WATER UNITS: PSI

SAFETY DEVICES

- WIRED DIRECTLY TO EQUIPMENT STARTER W/ MANUAL RESET
- SD — DUCTWORK SMOKE DETECTOR - RELAY & LOW VOLTAGE WIRING TO FAN CONTROLLER BY T.C.
- P — HIGH STATIC SAFETY SWITCH
- FS — FLOW SWITCH
- FZ — FREEZE STAT

DUCTWORK LEGEND

- 20/12 / 20/12 — RECTANGULAR DUCT FIRST FIGURE IS SIDE SHOWN
- 10"ø / 10"ø — ROUND DUCT DIAMETER INDICATED
- STAINLESS STEEL DUCT
- INSULATED FLEXIBLE DUCT
- R — CHANGE OF ELEVATION R = RISE, D = DROP
- ELBOW WITH TURNING VANES
- 20/12 — ROUND RUNOUT DUCT TAP TO RECTANGULAR DUCT WITH SPIN-IN FITTING, SEE DETAIL
- 10"ø — ROUND RUNOUT DUCT FITTING IN ROUND DUCT MAIN
- VOLUME DAMPER
- AUTOMATIC CONTROL DAMPER REFER TO CONTROL DIAGRAMS FOR TYPE.
- FD — FIRE DAMPER
- S — DUCT MOUNTED SMOKE DETECTOR
- SUPPLY DUCT SECTION - RISE, DROP
- RETURN DUCT SECTION - RISE, DROP
- S1-8" / 300 — SUPPLY AIR DEVICE S1 SEE SCHEDULE AND DETAIL 8" NECK SIZE 300 = REQUIRED AIR FLOW (CFM)
- R1 — TRANSFER AIR DEVICE R1 DEVICE TAG, SEE SCHEDULE AND DETAIL
- R1 / 300 — RETURN/EXHAUST DEVICE TAG: R=RETURN, E=EXHAUST 300 = REQUIRED AIR FLOW (CFM) DEVICE SIZE AS INDICATED IN AIR DEVICE SCHEDULE
- S2-24/12 / 300-8' 6" — SIDEWALL AIR DEVICE SEE AIR DEVICE SCHEDULE 24/12 = DEVICE SIZE 300 = AIR FLOW (CFM) 8' 6" = MOUNTING HEIGHT (AFF)
- S3-6" / 150-2 — LINEAR SLOT PLENUM S3 - DEVICE TAG, SEE AIR DEVICE SCHEDULE 6" = ROUND DUCT CONNECTION SIZE 150 = AIR FLOW (CFM) 2 = NO. OF SLOTS
- (E) / 120 — EXISTING AIR DEVICE REBALANCE TO AIR FLOW INDICATED

VALVE LEGEND

- SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
- CHECK VALVE
- BALANCING VALVE
- GATE VALVE
- PRESSURE REDUCING VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- STRAINER, Y-TYPE
- PRESSURE RELIEF VALVE

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B / H2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
A / H1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
A / H1	EXTERIOR ELEVATION SYMBOL ELEVATION "A" DESIGNATION, SHOWN ON SHEET H1
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
	2 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
	3 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

HVAC INDEX OF DRAWINGS

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63822
REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT
STATION 15

2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION

DATE	08/01/2025
JOB NO.	4284.00
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CHECKED	JDZ

TITLE
LEGENDS AND SCHEDULES

SHEET NO.
H0.1

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PIPING SYSTEMS - HVAC

PIPING SYSTEM		TYPE	
COIL CONDENSATE DRAINAGE		C3	
REFRIGERANT LINESETS		R1	
TYPE	**DESCRIPTION**	**TYPE**	**DESCRIPTION**
R1	COPPER COIL REFER TO SPECIFICATION 23 2300.	C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER

DUCTWORK INSULATION SCHEDULE

SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED	
SUPPLY AIR DUCT	2"	2	EXPOSED	
RETURN AIR DUCT	-	-	CONCEALED	
RETURN AIR DUCT	-	-	EXPOSED	
RELIEF AIR DUCT & PLENUMS	-	-	CONCEALED	
RELIEF AIR DUCT & PLENUMS	-	-	EXPOSED	
EXHAUST AIR DUCT & PLENUMS	-	-	CONCEALED	
EXHAUST AIR DUCT & PLENUMS	-	-	EXPOSED	

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT. ADHESIVE - NONE TAPE - 3" WIDE
2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS BOARD ON DUCT K = 0.23 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - ASJ JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - NONE TAPE - 3" WIDE VAPOR PATCHED

NOTES:

PIPE INSULATION SCHEDULE

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
REFRIGERANT LIQUID	0.75"	E1, E2	INTERIOR/EXTERIOR
REFRIGERANT HOT GAS	0.75"	E1, E2	INTERIOR/EXTERIOR
REFRIGERANT SUCTION	0.75"	E1, E2	INTERIOR/EXTERIOR
COOLING COIL CONDENSATE	0.5"	F1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS CORNING #SSL II WITH ASJ MAX JACKET	- KNAUF - JOHNS MANVILLE - MANSON -CERTAINTEED	PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING. K=0.24 @ 100 DEG. F, 3.5 - 5.5 PCF. WHITE FSRK JACKET. LONGITUDINAL LAP, SELF-SEALING ADHESIVE. ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.
E1	AEROFLEX #AEROCEL EPDM	- ARMACELL - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, EPDM ELASTOMERIC TUBULAR INSULATION, OR SHEET INSULATION. K=0.25 @ 75 DEG. F. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.
E2	ARMACELL #AP ARMAFLEX FS	- AEROFLEX - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, ELASTOMERIC TUBULAR INSULATION. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING. K=0.25 @ 75 DEG. F. 25/50 FLAME/SMOKE RATING. PROVIDE 0.20" ROLL ALLOY ALUMINUM EMBOSSED JACKET, SEAM SIDE DOWN WITH 0.50" WIDE, 0.015" S.S. STRAP AND SEALS EQUAL TO PABCO-CHILDERS METALS/GERRARD.

DUCTWORK SYSTEMS SCHEDULE

DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.		NOTES
			SP. CONSTR.	SEAL CLASS	
RETURN AIR	CONCEALED	G1	-2"	C	
RETURN AIR	EXPOSED	G2	-2"	C	1
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	1
AIR TRANSFER	ALL	G1	-1"	NOT REQ'D.	
SUPPLY AIR - CONSTANT VOLUME	CONCEALED	G1	+3"	B	
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED OR UNCONDITIONED	C1	+10" -5"	N.A.	
GUH-1 COMBUSTION AIR / FLUE	ALL	P1	-2"	A	
RADIANT HEATER COMBUSTION AIR	ALL	G1	+4"	A	
RADIANT HEATER FLUE	ALL	D1	+4"	A	

DUCTWORK MATERIALS SCHEDULE

TYPE	MATERIAL	DESCRIPTION
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 6.0 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
D1	ALUMINUM ALLOY / GALVANIZED STEEL	DOUBLE WALL TYPE 'B' VENT UL 441 / NFPA 54 LISTED REFER TO SPECIFICATION FOR APPROVED MANUFACTURERS.
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.
G2	GALVANNEALED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE, A40 PER ASTM A653.
P1	POLYPROPYLENE	SCHEDULE 40 POLYPROPYLENE UL 1738 HIGH TEMPERATURE RATED, 230 DEG. F. FLUE GAS RATING CENTROTHERM INNOFLUE SINGLE WALL OR EQUAL.

NOTES:
1. PAINT DUCTWORK TO MATCH BASE MATERIAL COLORS.

RATED ASSEMBLY PENETRATIONS

GENERAL NOTES:

1. REFER TO THE ARCHITECTS LIFE SAFETY DRAWING FOR INFOMRATION ON RATED ASSEMBLIES ON THIS PROJECT.
2. REFER TO SPECIFCATION 23 0004, 23 0529, 23 3300 FOR INFORMATION ON SYSTEMS SPECIFIED PER THIS SCHEDULE.
3. FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPER ACCESS DOORS SHALL BE LOCATED IN AN EASILY ACCESSIBLE LOCATION. FOR HORIZONTAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED ON THE BOTTOM OF DUCTWORK. FOR VERTICAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED AT THE FLOOR LEVEL ON THE HIGHER FLOOR (I.E., A PENETRATION THROUGH THE 1ST AND 2ND FLOOR SHALL HAVE THE ACCESS DOOR LOCATED ON THE 2ND FLOOR LEVEL).

	DUCTWORK					PIPING			
ASSEMBLY TYPE	FIRE DAMPER	FIRE STOPPING	PLIABLE CAULK	SMOKE DAMPER	COMBINATION FIRE / SMOKE	FIRE STOPPING	PLIABLE CAULK	CAST-IN PLACE FIRESTOP SYS.	NOTES
FIRE BARRIER	●	●				●			1
FIRE WALLS	●					●			
FIRE WALL HORIZONTAL EXIT					●	●			
FIRE BARRIER HORIZONTAL EXIT					●	●			
SHAFT ENCLOSURE	●	●		●	●	●			2
FIRE PARTITIONS	●					●			1
SMOKE PARTITIONS			●	●			●		
SMOKE BARRIER		●		●		●			3
RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●		●	4
NON-RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●			5

NOTES:
1. PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING.
2. PROVIDE FIRE DAMPER, SMOKE DAMPER, OR COMBINATION FIRE/SMOKE ONLY WHERE INDICATED ON DRAWINGS. OBC 717.5.3 EXCEPTIONS ALLOW THE ELIMINATION OF SOME DAMPERS. WHERE FIRE DAMPERS ARE NOT INDICATED, PROVIDE FIRE STOPPING.
3. PROVIDE SMOKE DAMPERS ONLY WHERE INDICATED ON DRAWING. FOR DUCTS WITHOUT SMOKE DAMPERS, PROVIDE FIRE STOPPING.
4. PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING. NOTE: DUCTS PENETRATING RATED FLOORS MAY BE WITHIN A SHAFT ENCLOSURE, REFER TO SHAFT REQUIREMENTS.
5. DUCTS PENETRATING NON-RATED, NON-COMBUSTIBLE FLOORS AND NOT ENCLOSED IN A SHAFT REQUIRE A FIRE DAMPER. DUCTS PENETRATING NON-RATED, COMBUSTIBLE FLOORS AND NOT WITHIN A SHAFT REQUIRE FIRE STOPPING.

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ISSUE

NO.	DATE	DESCRIPTION
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DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

TITLE
MATERIAL SCHEDULES

SHEET NO.
H0.2

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FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK
REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS

VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.

REFER TO INSTALLATION DETAILS.

TAG	SERVICE	AREA	DESCRIPTION	MODEL NUMBER	ROOF OPENING (L x W)	CAPACITY		ELECTRICAL		ELECTRIC				DRIVE TYPE		MOUNTING					APPLICATION				ACCESSORIES & OPTIONS									CONTROLS					
						AIRFLOW (CFM)	E.S.P. (IN. W.C.)	MOTOR HP	V/PH	DISCONNECT WITH FAN	DISCONNECT BY E.C.	VFD	ECM	DIRECT	BELT	ROOF CURB	BASEFLOOR	SUSPENDED, INLINE	WALL	CEILING	UL 705 GREASE RATED	UL 864 SMOKE CONTROL	HIGH TEMP (ABOVE 200 °F)	EXPLOSION PROOF	VIBRATION ISOLATION	INSULATION HOUSING	THERMAL CONTROL	SLOPNG ROOF CURB	HINGED ROOF CURB	CURB EXTENSION	POWDER COAT FINISH	EPOXY INTERIOR FINISH	DDC CONNECTION	MANUALON/OFF SWITCH	DIAL SPEED CONTROLLER	HOA CONTROLLER	MOTORIZED DAMPER	GRAVITY DAMPER	NOTES
EF-3	RESTROOMS	ROOF	DOWNBLAST CENTRIFUGAL	G-080-VG	12.5 / 12.5	225	0.5	1/10	120 / 1	●			●	●		●																	●			●	●		
EF-4	APP BAY	ROOF	UPBLAST CENTRIFUGAL	CUE-160-VG	18.5 / 18.5	2,820	1	2	208 / 3	●			●	●		●																	●			●	●		
EF-5	APP BAY	INLINE	INLINE CENTRIFUGAL	SQ-80-VG	-	300	0.25	1/6	120 / 1	●			●	●				●							●								●			●	●		

NOTES:

1. REFER TO HOA CONTROLLER INSTALLATION DETAIL.

RADIANT HEATER SCHEDULE - GAS

GENERAL NOTES

BASIS OF DESIGN: RE-VERBER-RAY
EQUAL BY: REFER TO SPECIFICATION

UNIT NO.	MODEL #	SERVICE	MOUNTING	MODULATING RANGE (MBH)	AMPS	VOLT/PH	DIMENSIONS	WEIGHT	NOTES
							L		
RH-1	MP3-50-150	APP. BAY	CHAIN HANGER	110 - 150	4.8	120 / 1	41'-1"	190	1, 2
RH-2	MP3-50-150	APP. BAY	CHAIN HANGER	110 - 150	4.8	120 / 1	41'-1"	190	1, 2
RH-3	MP3-20-80	APP. BAY	CHAIN HANGER	65 - 80	4.8	120 / 1	21'-9"	120	1, 2
RH-4	MP3-20-80	APP. BAY	CHAIN HANGER	65 - 80	4.8	120 / 1	21'-9"	120	1, 2

NOTES:
1. MOUNT AT 14'-0" AFF.
2. WALL MOUNTED THERMOSTAT #TH-PUI.

GAS FIRED UNIT HEATER SCHEDULE

GENERAL NOTES

BASIS OF DESIGN: MODINE

UNIT NO.	SERVICE	MOUNTING	MODEL #	(MBH) INPUT/OUTPUT	CFM	AMPS	VOLT/PH	DIMENSIONS			WEIGHT	NOTES
								L (IN.)	D (IN.)	H (IN.)		
GUH-1	APP. BAY	CEILING SUSPENDED	HDS-125	125 / 102.5	1,980	4.75	120 / 1	35.5	31	21.5	85	1

NOTES:
1. CONTRACTOR CONVENIENCE PACKAGE - CONDENSATE PUMP OUTLET, UNIT DISCONNECT SWITCH, HEAT STATUS INDICATOR, EXTERNAL TERMINALS FOR DDC CONNECTION.

AIR DEVICE SCHEDULE

GENERAL NOTES

AIR DEVICES BASED ON PRICE.
EQUAL BY TITUS, TUTTLE & BAILEY

MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.

BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.

DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.

VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1 & S1A	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	
S2 & S2A	12"X12"SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	1
S3	SUPPLY GRILLE DEVICE SIZE: REFER TO DRAWING 45° HORIZONTAL BLADES 1/2" SPACING	520	ALUMINUM	BALANCING DAMPER	
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY	
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY	
R3	RETURN GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY	
E1	EXHAUST GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E2	EXHAUST GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM		1
E3	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E4	HEAVY DUTY GYM GRILLE DEVICE SIZE: INDICATED IN PLAN 45° HORIZONTAL BLADES 1/2" SPACING	9C	14 GA STEEL		

NOTES:

1. DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.

PACKAGED ROOFTOP UNITS

UNIT TAG	RTU-1	RTU-2
BASIS OF DESIGN	DAIKIN #DPSC04B	DAIKIN #DPSC06B
SERVICE	DORM / DECON	DAYROOM / OFFICER
DESCRIPTION	CONSTANT VOLUME	CONSTANT VOLUME
MOUNTING	ROOF CURB	ROOF CURB
EVAPORATOR FAN		
AIRFLOW (CFM)	1,650	2,400
ESP. (" W.G.)	1.25	1.25
FAN TYPE	ECM	ECM
VARIABLE FREQUENCY DRIVE	NOT REQ.	NOT REQ.
FILTER		
PRE-FILTER	2" MERV 8	2" MERV 8
FINAL FILTER	4" MERV 14	4" MERV 14
COOLING - BASED ON 90/74 (DB/WB) O.A. & 76 DB, 50% RH R.A.		
TOTAL (MBH)	51	75
SENSIBLE (MBH)	40	59
COIL AIR VELOCITY (FPM)	341	397
ENTER. AIR (DB/WB)	80.9 / 67.3	80.7 / 67.1
SUPPLY AIR (DB/WB)	57.1 / 57.1	56.7 / 56.7
EER	13.2	11.2
HEATING - REQ. NATURAL GAS INPUT PRESSURE: 4.5" W.C. MIN./14" W.C. MAX. -BASED ON 0°F O.A., 68°F R.A. CONDITIONS		
GAS INPUT (MBH)	120	160
OUTPUT (MBH)	97.2	129.6
ENTER. AIR DB	43	42
SUPPLY AIR (DB/WB)	99	94
ELECTRIC		
MCA	36.2	36.4
MOCP	50	50
VOLTAGE/HZ/PHASE	208 / 60 / 3	208 / 60 / 3
PHYSICAL UNIT DATA		
LENGTH	84.5	84.5
WIDTH	69.5	69.5
HEIGHT - NOT INCLUDING CURB	53.3	53.3
MAX UNIT OP. WEIGHT (LBS)	955	1009
UNIT OPTIONS		
ECONOMIZER HOOD	•	•
MIN. O.A. HOOD	•	•
CONSTANT AIR VOLUME	•	•
VARIABLE AIR VOLUME		
SINGLE SPEED / STAGED COMPRESSORS		
DIGITAL SCROLL COMPRESSORS		
INVERTER DUTY COMPRESSOR	•	•
STAINLESS STEEL HEAT EXCHANGER	•	•
RETURN AIR SMOKE DETECTOR		
CO2 SENSOR D.V.C.		
14" ROOF CURB ADAPTER	•	•
POWERED RELIEF FAN		
BAROMETRIC GRAVITY RELIEF DAMPER	•	•
WALL MOUNTED THERMOSTAT/HUMIDISTAT	•	•

NOTES:

1. SEE ROOFTOP UNIT MOUNTING DETAIL, DETAIL 3, SHEET H3.5.
2. COOLING COIL CONDENSATE TRAP PER DETAIL 4, SHEET H3.5.

CONDENSING UNIT SCHEDULE

BASIS OF DESIGN: TRANE
EQUAL BY: DAIKIN, LG

UNIT	SERVICE	AREA SERVED	COOLING CAPACITY	HEATING CAPACITY	REFRIGERANT PIPING			MAX PIPING LENGTH (FT)	REFRIGERANT			ELECTRICAL			DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES
			MBH @ 90°F	MBH @ 0°F	GAS	LIQUID	H/L PRESSURE		TYPE	FACTORY CHARGE (LBS)	ADDITIONAL CHARGE (LBS)	V/PH	MCA	MOCP	WIDTH	DEPTH	HEIGHT			
CD-1	FC-1	FITNESS	24	20.8	5/8	3/8	-	165	R-410A	7	NOTE 2	208 / 1	24	25	37.5"	14.25"	37"	190	TRUZH0241HA10NA	1, 2
CD-2	FC-2	DECON	12	10.6	1/2	1/4	-	100	R-410A	5	NOTE 2	208 / 1	14	15	32"	12"	25"	104	TRUZA0121KA70NA	1, 2
CD-3	FC-3	TOG TOWER	18	14.7	1/2	1/4	-	100	R-410A	4	NOTE 2	208 / 1	14	15	32"	12"	25"	104	TRUZA0181KA70NA	1, 2

NOTES:
1. PROVIDE INSULATION TO REFRIGERANT LINE SETS.
2. ADDITIONAL REFRIGERANT CHARGE BY H.C.

FAN COIL UNIT SCHEDULE

BASIS OF DESIGN: TRANE. EQUAL BY: DAIKIN, LG.
- COOLING CAPACITIES BASED ON 90°F OUTDOOR AIR TEMP., HEATING BASED UPON 0°F OUTDOOR AIR TEMP.

UNIT	DESCRIPTION	MOUNTING	CONDENSING UNIT	CFM	E.S.P.	COOLING CAPACITY				HEATING CAPACITY		REFRIGERANT PIPING		ELECTRICAL			CABINET DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES
						SENS. MBH	TOTAL MBH	EAT (DB/WB)	LAT (DB/WB)	MBH	EAT / LAT	GAS	LIQUID	V/PH	MCA	MOCP	WIDTH	DEPTH	HEIGHT			
FC-1	WALL MOUNTED	WALL	CD-1	775	-	18.5	24	76 / 63	55 / 54	20.8	66 / 100	5/8	3/8	NOTE 1	-	-	46"	11.5"	14.5"	46	TPKA0A0241KA80A	1, 2, 3, 4
FC-2	WALL MOUNTED	CEILING	CD-2	385	-	10.5	12	76 / 63	55 / 54	10.5	66 / 100	1/2	1/4	NOTE 1	-	-	35.5"	9.5"	11.5"	32	TPKA0A0121LA10A	1, 2, 3, 4
FC-3	MULTI-POSITION AHU	FLOOR	CD-3	735	0.8	13.5	18	76 / 63	55 / 54	14.7	66 / 100	1/2	1/4	NOTE 1	-	-	17"	21.5"	50.25"	113	TPVA0A0181AA70A	1, 2, 3, 4

NOTES:
1. PROVIDE FLUSH MOUNT REMOTE LCD THERMOSTAT.
2. PROVIDE BACNET INTERFACE.
3. PROVIDE CONDENSATE PUMP.
4. UNIT POWERED THROUGH OUTDOOR UNIT.

EQUIPMENT NOTES

DS-1
DUCT SILENCER
RECTANGULAR DISSIPATIVE TYPE
VIBRO-ACOUSTICS #RD-MV OR APPROVED EQUAL
AIRFLOW: 1,100 CFM
DUCTWORK DIMENSIONS: 12"W / 10"H
PRESSURE DROP: 0.25"

DS-2
DUCT SILENCER
RECTANGULAR DISSIPATIVE TYPE
VIBRO-ACOUSTICS #RD-MLV OR APPROVED EQUAL
AIRFLOW: 2,365 CFM
DUCTWORK DIMENSIONS: 30"W / 10"H
PRESSURE DROP: 0.25"

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821
PROJECT # 24065

DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

TITLE
EQUIPMENT SCHEDULES

SHEET NO.
H0.3

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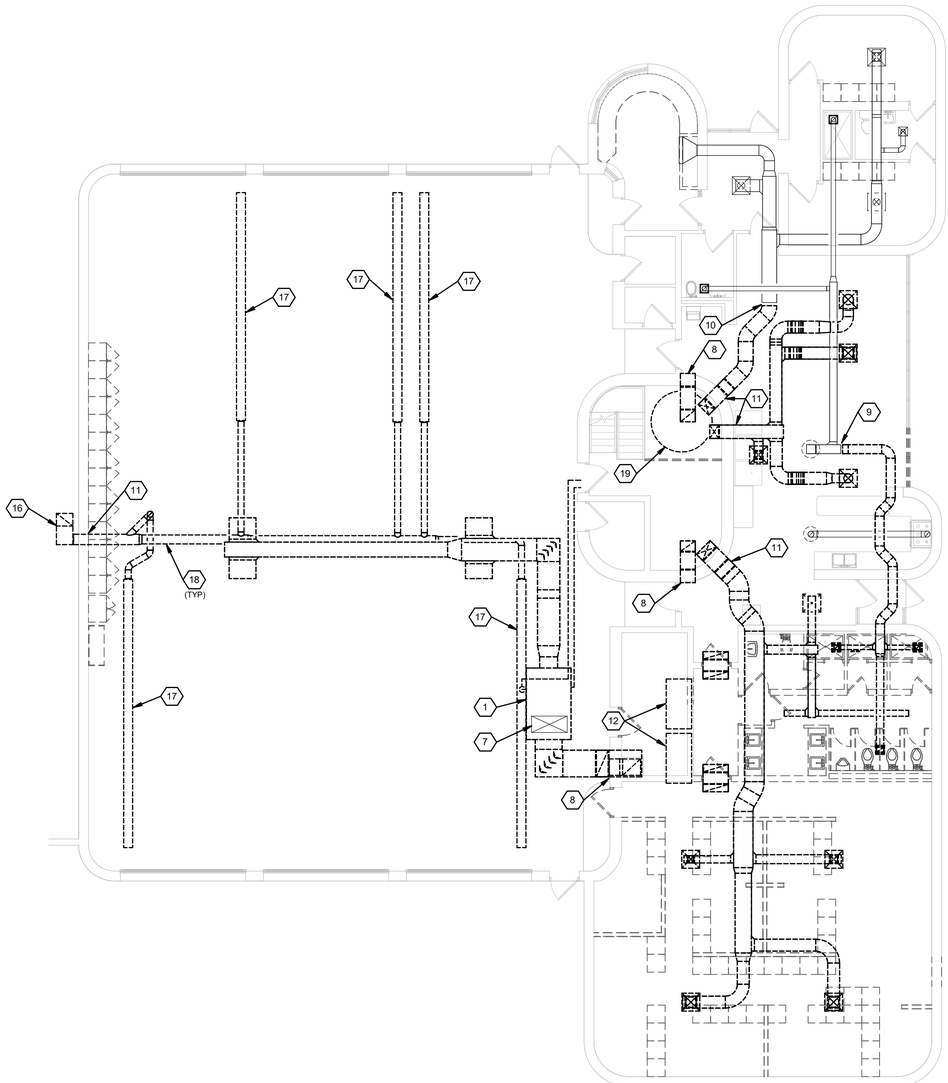
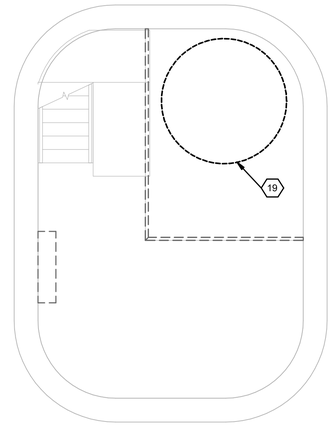


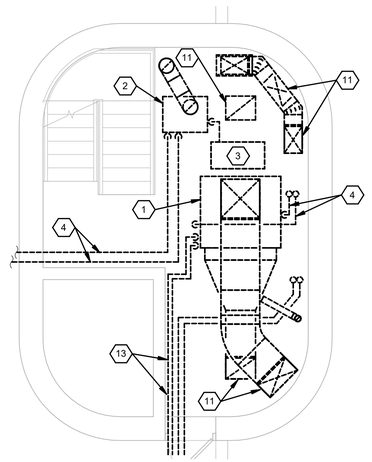
LEVEL 1 DEMOLITION PLAN

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



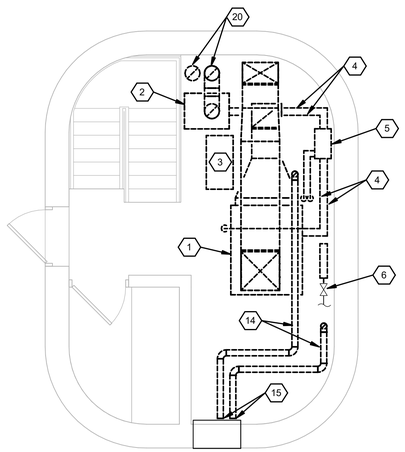
BASEMENT DEMOLITION PLAN

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



LEVEL 2 DEMOLITION PLAN

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



LEVEL 3 DEMOLITION PLAN

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

CONSTRUCTION NOTES

1. REMOVE AHU.
2. REMOVE BOILER.
3. REMOVE HOT WATER EXPANSION TANK.
4. REMOVE ALL HOT WATER PIPING.
5. REMOVE HOT WATER PUMPS.
6. REMOVE MAKE-UP WATER ASSEMBLY. CAP PIPE AT SHUT-OFF VALVE.
7. INTAKE DUCT AND ROOF HOOD TO REMAIN.
8. REMOVE GRILLE IN WALL. PATCH TO MATCH EXISTING CONSTRUCTION.
9. REMOVE TO LOCATION INDICATED AND CAP.
10. REMOVE TO LOCATION INDICATED. REFER TO NEW WORK PLAN.
11. REMOVE DUCT, PATCH PENETRATION TO MATCH EXISTING CONSTRUCTION.
12. REMOVE CONDENSING UNITS ON ROOFTOP.
13. REMOVE REFRIGERANT PIPING IN TOWER AND ON ROOF. PATCH EXTERIOR WALL PENETRATION TO MATCH EXISTING CONSTRUCTION.
14. REMOVE OUTSIDE AIR DUCT.
15. CAP WALL LOUVER PLENUM.
16. REMOVE VEHICLE EXHAUST FAN. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL EXHAUST SYSTEM COMPONENTS.
17. REMOVE EXHAUST RAIL AND HOSE. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL EXHAUST SYSTEM COMPONENTS.
18. REMOVE VEHICLE EXHAUST DUCT.
19. REMOVE WATER STORAGE TANK. REMOVAL REQUIRES TANK TO BE CUT INTO PIECES.
20. REMOVE BOILER FLUE. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.

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JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT
STATION 15

2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION

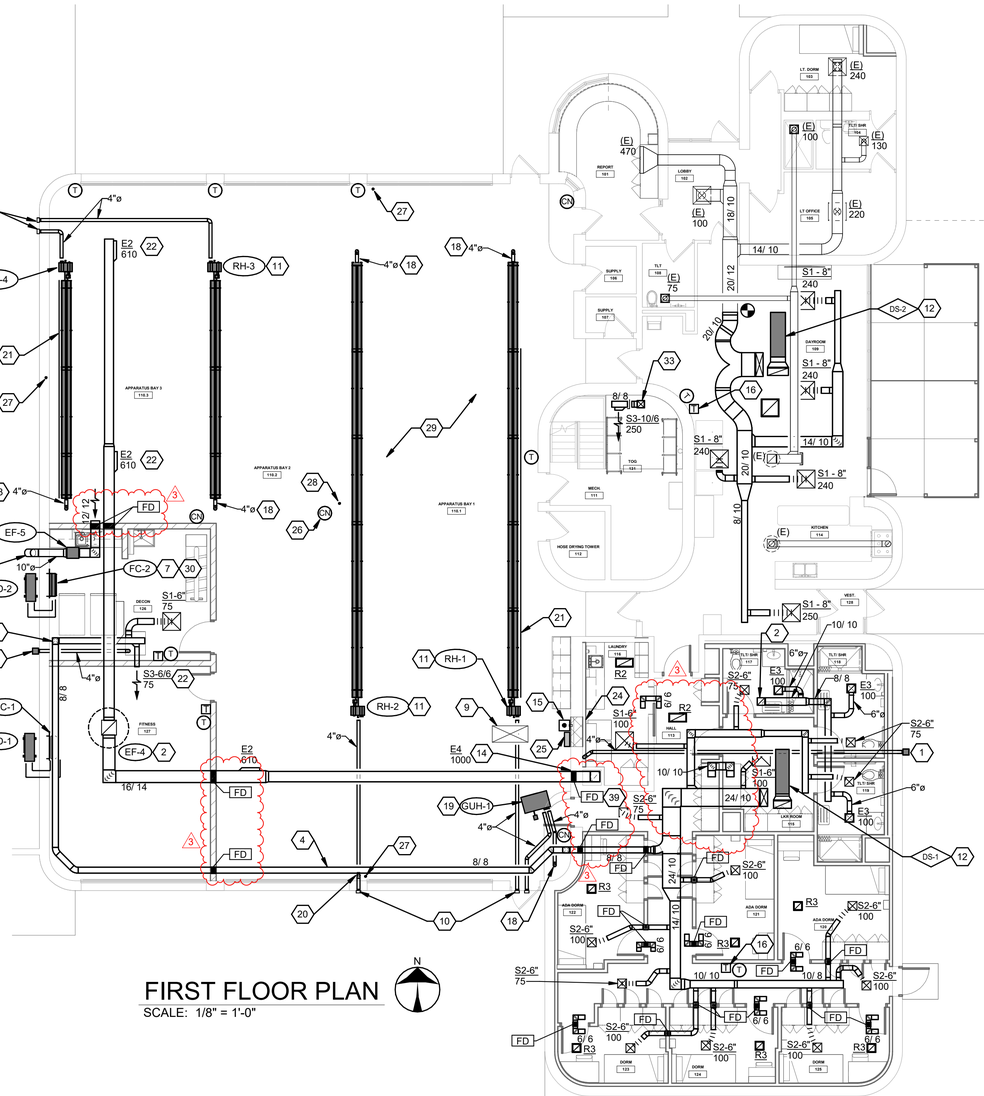
DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

TITLE
DEMOLITION PLANS

SHEET NO.
H1.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821
PROJECT # 24065

7/31/2025 8:01:41 AM



FIRST FLOOR PLAN

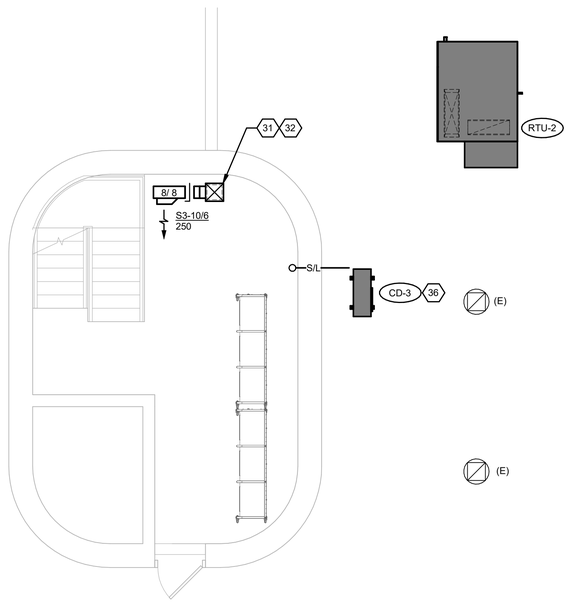
SCALE: 1/8" = 1'-0"

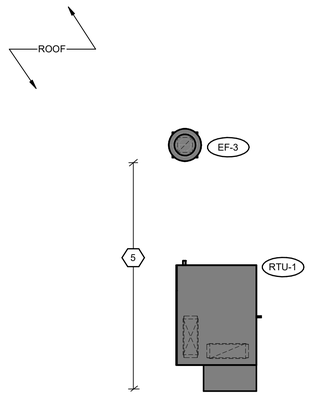
BASEMENT PLAN

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

LEVEL 3 FLOOR PLAN

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





PARTIAL LEVEL 2 FLOOR PLAN

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

CONSTRUCTION NOTES

1. DRYER VENT. REFER TO DETAIL.
2. EXHAUST FAN ON ROOF.
3. DUCT RUN TIGHT TO APPARATUS BAY WALL.
4. DUCT RUN ABOVE GARAGE DOORS.
5. MAINTAIN 10' MINIMUM CLEARANCE BETWEEN INTAKE AND EXHAUST FAN.
6. MOUNT CONDENSING UNIT TO BUILDING SIDEWALL WITH UNISTRUT FRAME.
7. EXTEND CONDENSATE DRAIN INTO DECON ROOM AND TIE INTO EXTRACTOR DRAIN. COORDINATE WITH THE P.C. FOR TERMINATION POINT.
8. REUSE PENETRATION THROUGH WALL FOR NEW 10"Ø EXHAUST DUCT.
9. PROVIDE CONTROL DAMPER ON EXISTING INTAKE HOOD DUCT IN APPARATUS BAY.
10. WALL INTAKE HOOD. PAINT TO MATCH BUILDING COLOR.
11. INSTALL IN AISLE WAY BETWEEN GARAGE DOORS. MOUNTING HEIGHT APPROXIMATELY 14' A.F.F.
12. DUCT SILENCER END OPEN TO PLENUM.
13. FC-3 THERMOSTAT.
14. REUSE EXISTING WALL OPENING. SIZE EXHAUST AIR DEVICE TO MATCH EXISTING OPENING SIZE. OPENING NOTED AS 22"W / 60"H; FIELD VERIFY. PROVIDE TYPE-A FIRE DAMPERS IN OPENING EQUAL TO GREENHECK DFD-150; TWO TOTALT REQUIRED INSTALLED ONE ON TOP OF THE OTHER. PROVIDE 12" SLEEVE THROUGH WALL OPENING AND UTILIZE "SINGLE FLANGE METHOD" FOR INSTALLATION. MOUNT NEW RETURN GRILLE ON WALL OPENING IN FRONT OF DAMPERS. MODIFY VERTICAL DUCTWORK RISE IN CHASE TO ACCOMMODATE NEW WALL SLEVE. 3
15. EF-5 OVERRIDE PUSH BUTTON.
16. PROGRAMABLE THERMOSTAT FOR NEW RTU.
17. DUCT FAN INTAKE INTO APPARATUS BAY THROUGH FULL HEIGHT WALL AND TERMINATE OPEN.
18. FLUE THROUGH ROOF.
19. HANG UNIT TIGHT TO BOTTOM OF STRUCTURE.
20. COMBUSTION AIR DUCT RISES BETWEEN GARAGE DOOR RAILS AND PENETRATES EXTERIOR WALL ABOVE RETRACTED DOOR PLANE.
21. PROVIDE PROTECTIVE SIDE SHROUD TO DEFLECT RADIANT HEAT FROM SIDEWALL.
22. PROVIDE INTEGRAL BALANCING DAMPER WITH AIR DEVICE.
23. NOTE DELETED. 3
24. PROVIDE WALL RECESSED DRYER VENT BOX. REFER TO DETAIL.
25. CO/NO$_2$ DETECTION SYSTEM CONTROLLER.
26. MOUNT CO/NO$_2$ SENSOR TO STRUCTURE.
27. PROVIDE NEDERMAN RECEIVER GENIB #89115581. MOUNT 12"-0" A.F.F.
28. PROVIDE NEDERMAN RECEIVER GENIB #89115581. MOUNT TO STRUCTURE ADJACENT TO Co,No2 DETECTOR.
29. PROVIDE FIVE (5) TRUCK TRANSMITTERS. TURN OVER TO OWNER FOR INSTALLATION ON VEHICLES.
30. BOTTOM OF FAN COIL UNIT 6'-8" A.F.F.
31. DUCT DOWN THROUGH FLOOR LEVEL. REUSE EXISTING DUCT OPENING FROM OLD AHU.
32. DUCT TRANSITIONS TO 10/10 AFTER BRANCH TO AIR DEVICE.
33. DUCT TRANSITIONS TO 8/8 AFTER BRANCH TO AIR DEVICE.
34. RETURN DUCT OPEN TO TOWER.
35. PROVIDE 1" CAMFIL FILTER BANK IN RETURN DUCT. PROVIDE 1" CARBON FILTER EQUAL TO CAMFIL #CC-PG-LGX048.
36. MOUNT CONDENSING UNIT ON 12" ROOF RAIL CURB.
37. PROVIDE 1/2" CONDENSTATE DRAIN FROM FC-3 TO FLOOR DRAIN ON TOWER 3RD FLOOR LEVEL.
38. LOCATION OF DOMESTIC WATER HEATER CIRCULATION PUMP.
39. FIRE DAMPER INSTALLED IN OVERHEAD DUCTWORK. REFER TO NOTE 14, THIS SHEET, FOR DAMPER INFO AT AIR DEVICE. 3

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STATE OF OHIO
JEFFREY D. ZELINSKI 63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT
STATION 15

2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION
3	11/11/2025	CODE REVISIONS

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

TITLE
NEW WORK PLANS

SHEET NO.
H2.1

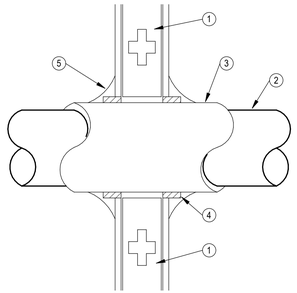
NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3921
PROJECT # 24065

11/11/2025 2:07:34 PM

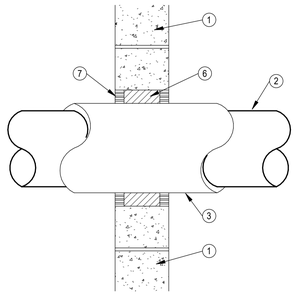
FIRESTOPPING MATERIALS/INSTALLATION

- MANUFACTURERS: REFER TO THE SPECIFICATION.
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

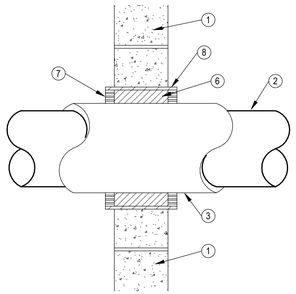
1. RATED WALL ASSEMBLY.
2. METALLIC PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
5. APPROVDED FIRESTOPPING CAULK OR SEALANT.
6. PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
7. APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
8. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.



GYPSUM CONSTRUCTION
ALL PIPE SIZES



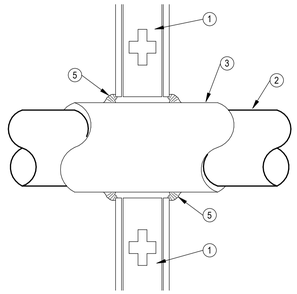
CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



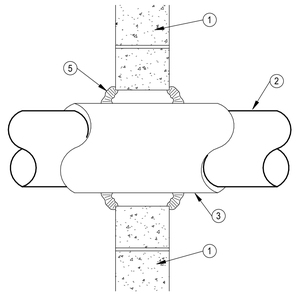
CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

1 PIPE PENETRATIONS THRU FIRE RATED WALL
N.T.S.

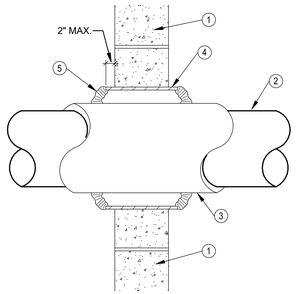
1. FULL HEIGHT INTERIOR WALL.
2. PIPE OR TUBING.
3. PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
4. SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
5. CAULK TO FILL VOID AT WALL/SLEEVE OPENING.



GYPSUM CONSTRUCTION
ALL PIPE SIZES

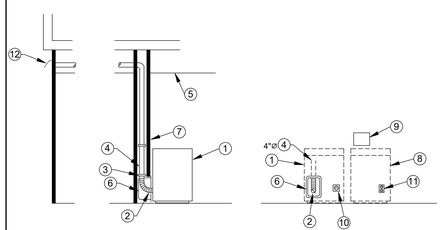


CONCRETE/MASONRY CONSTRUCTION
1/2" - 1.5" PIPES



CONCRETE/MASONRY CONSTRUCTION
2" AND LARGER PIPES

2 PIPE PENETRATIONS THRU NON-RATED WALL
N.T.S.

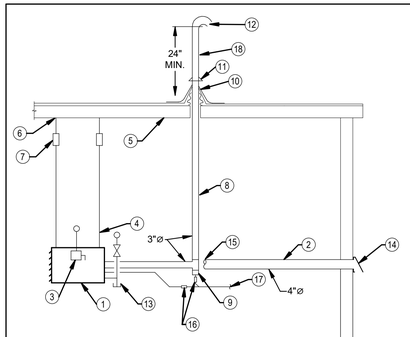


NOTE:
1. COORDINATE LOCATION OF VENT BOX WITH WASHER & DRYER PROVIDED AND WITH ELEC. & PLBG. CONTRACTORS ON LOCATION OF RECEPTACLES & WASHER BOX.

4" SIZE EXCEPT LARGER IF RECOMMENDED BY DRYER MANUFACTURER.

1. DRYER.
2. FLEXIBLE ALUMINUM DUCT WITH METAL DRAWBAND CONNECTORS.
3. STAINLESS STEEL DUCT SUPPORT. SUPPORT AT 4' INTERVALS.
4. 4" Ø ALUMINUM SPIRAL DUCT. DUCT SHALL NOT BE JOINED WITH SCREWS OR FASTENERS THAT PORTRUDE MORE THAN 1/8" INTO THE INSIDE OF THE DUCT.
5. LAY-IN CEILING.
6. RECESSED DRYER VENT BOX, FLUSH MTD. IN 6" STUD WALL. 22 GA. ALUMINIZED STEEL WITH FLANGE, 4" DIA. TOP OUTLET, 9"W x 18"H x 5.5"DP. INSIDE DIMENSION. FASTEN TO WALL AT FLANGE TO CONNECT TO STUDS. AMERICAN ALDES MODEL PN OR BY IN-O-VATE TECHNOLOGIES OR EQUAL. MOUNT BOTTOM AT 4" ABOVE FLOOR.
7. DRYWALL OR MASONRY ENCLOSURE BY G.C.
8. WASHER.
9. WASHER UTILITY BOX BY P.C.
10. 220/208 VOLT OUTLET BY E.C.
11. DOUBLE DUPLEX OUTLET BY E.C.
12. SIDEWALL DRYER VENT HOOD WITH DAMPER. AMERICAN ALDES #22-404 OR EQUAL. HOOD IS GALVANIZED, PAINTING BY G.C., FINAL CUSTOM COLOR SELECTION BY ARCHITECT.

3 DRYER VENT
N.T.S.



1. GAS FIRED UNIT HEATER.
2. 4"Ø COMBUSTION INTAKE DUCT.
3. DISCONNECT SWITCH WITH UNIT.
4. THREADED ROD HANGER.
5. ROOF STRUCTURE.
6. SECURE TO STRUCTURE.
7. VIBRATION ISOLATOR.
8. 4"Ø VENT DUCT.
9. CLEAN OUT CAP WITH STANDARD VENT DRIP LEG.
10. S.S. FLASHING CONE. SEAL PENETRATION THROUGH ROOF WATERTIGHT.
11. STORM COLLAR.
12. GOOSENECK AND BIRD SCREEN ON FLUE VENT.
13. NATURAL GAS CONNECTION, SHUTOFF VALVE, AND DIRT LEG BY P.C.
14. 4"Ø INTAKE CAP WITH BIRD SCREEN. COLOR BY ARCHITECT, PAINTING BY G.C.
15. EXTEND COMBUSTION AIR DUCT TO UNIT HEATER.
16. WATERLESS CONDENSATE TRAPS PROVIDED WITH UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATION.
17. EXTEND CONDENSATE DRAIN TO FLOOR DRAIN IN TOWER.
18. CUSTOM PAINT COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY G.C.

4 GAS FIRED UNIT HEATER
N.T.S

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT
STATION 15

2801 Wayne Ave, Dayton, OH 45420

ISSUE

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TITLE
DETAILS

SHEET NO.
H3.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

PROJECT # 24065

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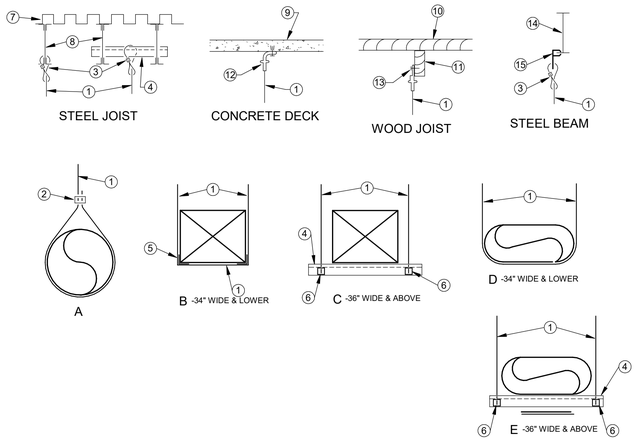
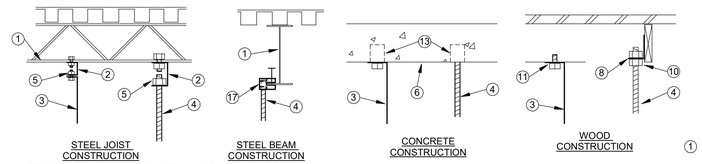


1. 1/8" DIA. OR 3/16" DIA. GALVANIZED STEEL CABLE, AISI 316 (GRIPPLE NO. 3 OR NO. 4).
2. CABLE LOCKING FASTENER, PERMITTED ONLY ON ROUND DUCT (GRIPPLE HF).
3. CABLE LOOP WITH LOCKING FASTENER (GRIPPLE HF).
4. UNISTRUT CHANNEL.
5. CORNER SADDLE (GRIPPLE).
6. GRIPPLE TRAPEZE SUPPORT (GRIPPLE NO. 3).
7. METAL DECK.
8. METAL JOIST.
9. CONCRETE SLAB.
10. WOOD DECK.
11. WOOD JOIST.
12. 90 DEG. EYELET. FASTEN TO CONC. WITH SCREWS, BOLTS OR POWER ACUATED TOOLS. (GRIPPLE 90 DEG. EYELET).
13. EYELET. FASTEN TO WOOD WITH SCREWS, BOLTS OR NAILS. (GRIPPLE EYELET).
14. STEEL BEAM.
15. BEAM CLIP - GRIPPLE GCB.

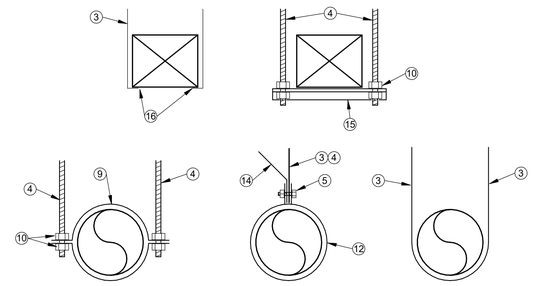
* HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN & LAYOUT OF DUCT HANGERS & SUPPORTS.
* ALL SUPPORT MATERIALS SHALL BE PAINTED, COATED OR GALVANIZED.
* STRUCTURE CONNECTIONS SHALL BE AT STRUCTURAL ELEMENTS ONLY. PROVIDE SPANNING STRUCTURAL ELEMENTS WHERE REQUIRED.
* SINGLE CHANNEL DUCT TRAPEZE CONNECTION DEVICES ARE NOT APPROVED.
* PROVIDE HANGER SPACING AS REQUIRED FOR SUPPORT, MAXIMUM 8 FT. SPACING EXCEPT FOR DUCT DIAMETER OR WIDTHS 36" & LARGER SHALL BE MAXIMUM 4 FT. SPACING.
* DESIGN SHALL MAINTAIN SUPPORT UPON FAILURE OF ANY INDIVIDUAL HANGER.
* STEEL CABLE DUCT SUPPORT SYSTEM A, B OR D SHALL BE UTILIZED WHERE DUCTS ARE EXPOSED IN NON MECHANICAL AREA.
* USE OF STRAP OR THREADED ROD HANGERS PER SMACNA ARE ALSO ACCEPTABLE IN ABOVE CEILING LOCATIONS.
* CABLE SUPPORTS & ACCESSORIES SHALL BE MANUFACTURED BY GRIPPLE OR EQUAL BY DUCTMATE OR DURODYNE.
* CABLE SUPPORTS & ACCESSORIES SHALL NOT BE PAINTED.

1 DUCT HANGERS & SUPPORTS — N.T.S. — **WIRE HANGERS**



DIRECT ATTACHMENT TO STEEL DECKING NOT ALLOWED. PROVIDE SUPPLEMENTAL STEEL BETWEEN STRUCTURAL MEMBERS WHERE NEEDED.

STRUCTURAL CONNECTIONS

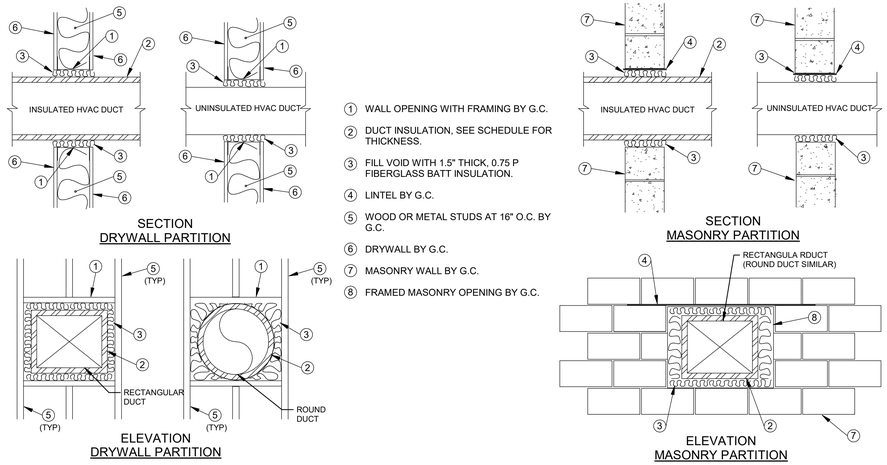


DUCT CONNECTIONS

1. STEEL JOIST OR BEAM.
2. UNISTRUT CHANNEL SPANNING TWO JOIST OR BEAMS. ATTACH TO BOTTOM CHORDS OF TWO BEAMS OR JOIST WITH "C" CLAMP.
3. GALVANIZED SHEETMETAL STRAP HANGER.
4. GALVANIZED THREADED ROD.
5. GALVANIZED BOLT & NUT.
6. CONCRETE SLAB.
7. WOOD DECK & BEAM.
8. STEEL ANGLE CLIP ENGINEERED FASTENER FOR THREADED ROD INTO WOOD.
9. TWO GALVANIZED BAND HANGERS.
10. RETAINING NUTS & WASHERS.
11. ATTACH TO BOTTOM OF WOOD BEAM OR JOIST WITH LAG BOLT.
12. ONE PIECE GALVANIZED STEEL BAND HANGER.
13. CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
14. SEISMIC SWAY BRACE ATTACHED TO STRUCTURE.
15. PAINTED STEEL UNISTRUT CHANNEL.
16. GALVANIZED STEEL RESTRAINT PER SMACNA REQUIREMENTS.
17. THREADED ROD BEAM CLAMP.

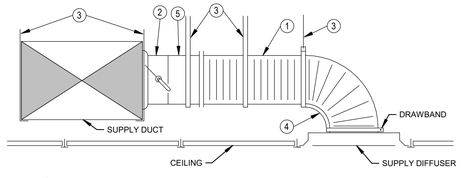
NOTE:
ALL HANGERS & SUPPORT OF DUCT SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS SECOND ADDITION - 1995.

2 DUCT HANGERS & SUPPORTS — N.T.S. — **METAL STRAP & ROD HANGERS**



1. WALL OPENING WITH FRAMING BY G.C.
2. DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
3. FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS BATT INSULATION.
4. LINTEL BY G.C.
5. WOOD OR METAL STUDS AT 16" O.C. BY G.C.
6. DRYWALL BY G.C.
7. MASONRY WALL BY G.C.
8. FRAMED MASONRY OPENING BY G.C.

3 DUCT SEALING THRU NON-FIRE RATED WALL — N.T.S. — * NEW CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"



1. FLEXIBLE DUCT SAME DIAMETER AS DIFFUSER INLET (ABOVE ACCESSIBLE CEILING ONLY USE SHEETMETAL ONLY ABOVE INACCESSIBLE CEILING). 7 FT. MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. ADDITIONAL HANGER REQUIRED IF DUCT LENGTH EXCEEDS 4 FT.
2. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
3. DUCT STRAP HANGER. ATTACH TO STRUCTURE. PER SMACNA.
4. 90 DEGREE FLEXIBLE ELBOW SUPPORT BY FLEXRIGHT, FLEXFLOW OR SMARTFLOW. PROVIDE WITH DRAWBANDS, UL-2043 RATING.
5. SHEETMETAL DUCT, SAME DIAMETER AS DIFFUSER INLET. LONGITUDINAL OR SPIRAL LOCK SEAM, 0.50" S.P. CONSTRUCTION. PROVIDE EXTERIOR INSULATION, 1.5" THICKNESS, 0.75" DENSITY FIBERGLASS WITH FOIL/KRAFT PAPER JACKET.

4 CEILING DIFFUSER — N.T.S.

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NAUMAN & ZELINSKI LLC.
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PROJECT # 24065

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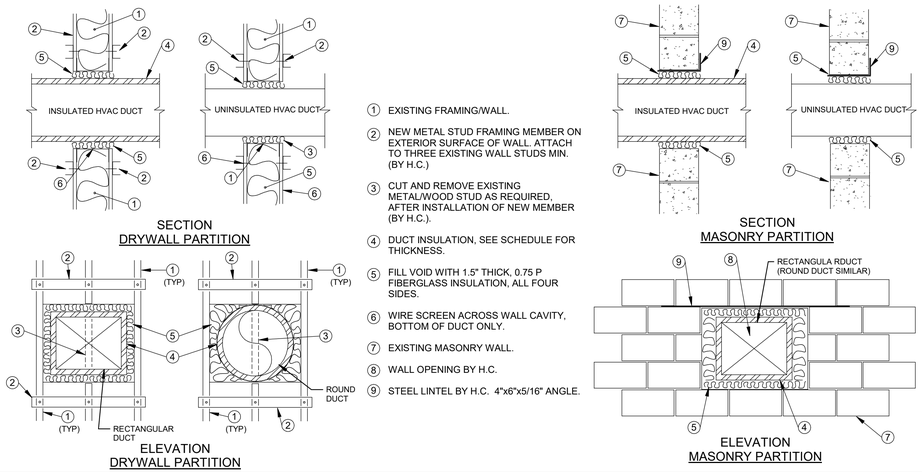
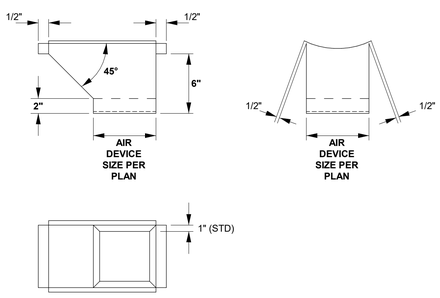


1. EXISTING FRAMING/WALL.
2. NEW METAL STUD FRAMING MEMBER ON EXTERIOR SURFACE OF WALL. ATTACH TO THREE EXISTING WALL STUDS MIN. (BY H.C.)
3. CUT AND REMOVE EXISTING METAL/WOOD STUD AS REQUIRED, AFTER INSTALLATION OF NEW MEMBER (BY H.C.).
4. DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
5. FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS INSULATION, ALL FOUR SIDES.
6. WIRE SCREEN ACROSS WALL CAVITY, BOTTOM OF DUCT ONLY.
7. EXISTING MASONRY WALL.
8. WALL OPENING BY H.C.
9. STEEL LINTEL BY H.C. 4"x6"x5/16" ANGLE.

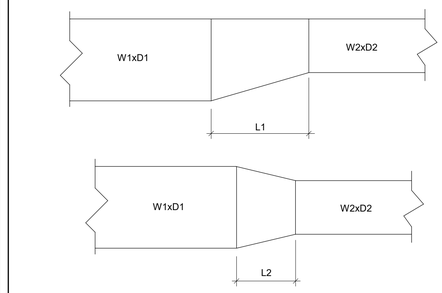
1 DUCT SEALING THRU NON-FIRE RATED WALL N.T.S.

* EXISTING CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"



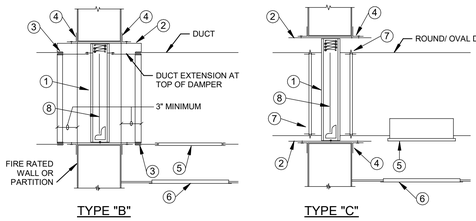
2 RECTANGULAR LO-LOSS TAP N.T.S.

ROUND MAIN - RECTANGULAR TAP



NOTES:
1. DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
2. FOR LOW VELOCITY DUCTWORK (1800 FPM OR LESS)
   L1 = 4 x (W1-W2) OR 4 x (D1-D2) WHICHEVER IS GREATER.
   L2 = 2 x (W1-W2) OR 2 x (D1-D2) WHICHEVER IS GREATER.
3. FOR MEDIUM AND HIGH VELOCITY DUCTWORK (OVER 1800 FPM)
   L1 = 7 x (W1-W2) OR 7 x (D1-D2) WHICHEVER IS GREATER.
   L2 = 3.5 x (W1-W2) OR 3.5 x (D1-D2) WHICHEVER IS GREATER.

3 RECTANGULAR TRANSITION N.T.S.



GENERAL NOTES

-FIRE DAMPERS SHALL BE UL CLASSIFIED.

-FIRE DAMPERS SHALL BE 1.5 HOUR RATED FOR 2 HOUR RATED WALLS OR LESS; 3 HOUR FIRE RATED FOR 3 HOUR WALLS.

-FIRE DAMPERS SHALL BE DYNAMIC RATED, CURTAIN TYPE, SPRING OPERATED

-DIFFERENTIAL PRESSURE RATING OF 4" MINIMUM, HIGHER WHERE REQUIRED TO MATCH DUCT CONSTRUCTION.

-2000 FPM MAX. AIRFLOW RATING, EXCEPT 4000 FPM WHERE DESIGN DUCT VELOCITY IS OVER 2000 FPM.

-FIRE CLOSURE FUSIBLE LINK OF 165 DEG. F. EXCEPT WHERE REQUIRED TO BE HIGHER BY APPLICATION.

-GALVANIZED STEEL CONSTRUCTION IN GALVANIZED DUCT, STAINLESS STEEL IN OTHER APPLICATIONS.

-NOMINAL 4" STANDARD FRAME WIDTH.

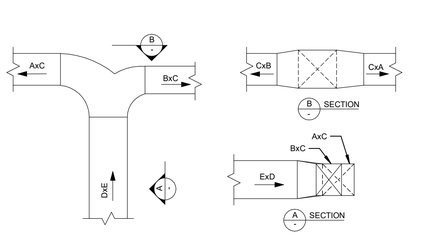
-INSTALLATION OF FIRE DAMPERS AND ACCESSORIES INCLUDING INSULATION SHALL CONFORM TO NFPA 90A, SMACNA AND MANUFACTURER'S INSTRUCTIONS.

-DETAILS SHOW INSTALLATION OF FIRE DAMPER IN WALL. DAMPER INSTALLATION IN FLOOR SIMILAR. REFER TO PLANS FOR ACCESS LOCATION.

1. FIRE DAMPER TYPES -
   TYPE "B" - BLADES STORED OUT OF AIR STREAM.
   TYPE "C" - ROUND/OVAL DUCT, BLADES STORED OUT OF AIR STREAM.
   ATTACH TO SLEEVE PER SMACNA, MINIMUM 4 CONNECTIONS (2 ON EACH SIDE OF BLADE CHANNEL) PER SIDE, MAX. 6" APART - TACK WELD, #10 SCREWS, 0.25" BOLTS/NUTS OR 3/16" STEEL POP RIVETS.
2. SHEETMETAL WALL SLEEVE, SAME MATERIAL AS DUCT. SHEETMETAL GAUGE PER SMACNA. MAINTAIN REQUIRED CLEARANCE TO WALL.
3. DUCT/SLEEVE CONNECTION, BREAKAWAY TYPE.
4. RETAINING ANGLE ALL FOUR SIDES, 1.5"x1.5" LEGS (MIN.). GAUGE PER SMACNA. 1" MINIMUM OVERLAP OF WALL BEYOND OPENING. EXTENDED LEG MAY BE REQUIRED. BOLT, SCREW, OR TACK WELD TO WALL SLEEVE. SPACING OF FASTENERS PER SMACNA.
5. DUCT ACCESS PANEL OR DOOR - 18"x16" EXCEPT SMALLER WHERE LIMITED BY DUCT SIZE.
6. CEILING ACCESS PANEL IF CEILING IS NOT ACCESSIBLE.
7. ROUND DUCT COUPLING.
8. STAINLESS STEEL CLOSURE SPRING.

NOTE:
AT 2 HR. FIRE WALL WITH DOUBLE WALL CONSTRUCTION, ONLY A SINGLE DAMPER IS REQUIRED PER 2006 NFPA 221 (NOT A HIGH CHALLENGE FIRE WALL) PROVIDE SINGLE SLEEVE CONTINUOUS THRU BOTH WALLS WITH FIRE DAMPER CENTERED IN SLEEVE FOR GYMNASIUM RETURN AIR, INSTALL SLEEVE DURING CONSTRUCTION OF WALL; TERMINATE SLEEVE IN MORTAR JOINTS AROUND OPEN AIR BLOCK (GYM SIDE). SLEEVE TO EXTEND THRU CORRIDOR SIDE WALL AND UTILIZE SINGLE SIDE MOUNTING ANGLE (RUSKIN FAST OR EQUAL). PROVIDE MULTIPLE SECTION DAMPER WITH FRAME AS REQUIRED FOR OPENING. CENTER TYPE "A" DAMPER(S) IN CORRIDOR SIDE WALL.

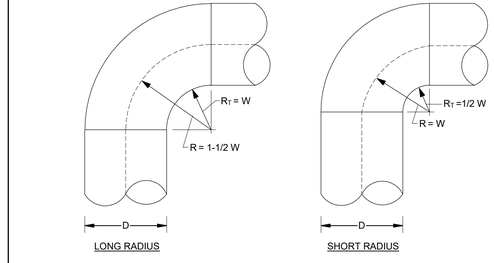
4 FIRE DAMPERS DETAIL N.T.S.



NOTES:

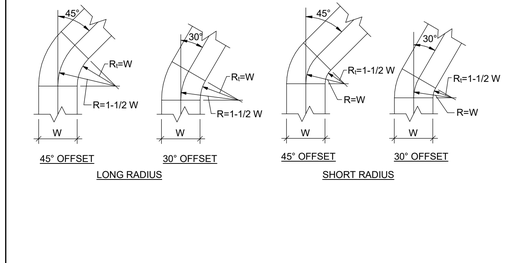
1. DIMENSIONS A, B, C, D, AND E AS INDICATED ON DRAWINGS.
2. TRANSITIONS SHOWN CONCENTRIC IN PLAN, MAY BE FLAT ON EITHER SIDE. TRANSITION SHOWN FLAT ON TOP IN SECTION, MAY BE FLAT ON BOTTOM OR CONCENTRIC. TRANSITION DUCT AS FIELD CONDITIONS DICTATE.
3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.

5 RECTANGULAR TEE REDUCING Y-BRANCHES N.T.S.



NOTES:
1. DIMENSION D AS SHOWN ON THE DRAWINGS.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

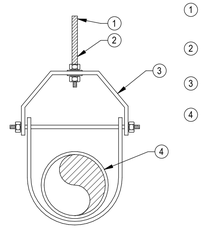
6 ROUND 90° RADIUS ELBOW N.T.S.



NOTES:

1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

7 RECTANGULAR 45° & 30° RADIUS ELBOW N.T.S.



1. DRILL HOLE IN SUPPORT STEEL ABOVE. EXTEND ROD THRU AND PROVIDE WASHER AND NUT AS REQUIRED.
2. HANGER ROD, SIZE AS REQUIRED FOR INTENDED SERVICE.
3. HEAVY DUTY CLEVIS HANGER, SAME SIZE AS PIPE.
4. NON-INSULATED PIPE.

8 PIPE HANGER - NON INSULATED PIPE N.T.S.

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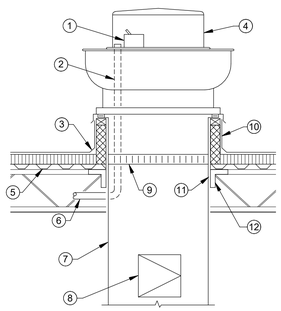
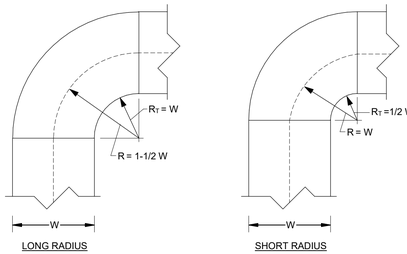


1. DISCONNECT SWITCH BY FAN MANUFACTURER.
2. WIRING CONDUIT CHASE BY FAN MANUFACTURER.
3. ROOFING & CURB FLASHING BY ROOFING CONTRACTOR.
4. EXHAUST FAN. INSTALL PER MANUFACTURERS RECOMMENDATION.
5. METAL ROOF DECK.
6. ELECTRIC CONDUIT BY E.C., SEAL DUCT PENETRATION.
7. EXHAUST DUCT-REFER TO PLANS/SCHEDULE FOR SIZE
8. ACCESS DOOR
9. 120V MOTORIZED DAMPER FROM MANUFACTURER.
10. 14" ROOF CURB WITH 1.5" INSULATION, INSTALL PER FAN AND ROOFING MANUFACTURERS INSTALLATION RECOMMENDATIONS.
11. FILL VOID BETWEEN DUCT AND STRUCTURE WITH FOAM INSULATION.
12. SUPPLEMENTAL STEEL FRAMING BY G.C.

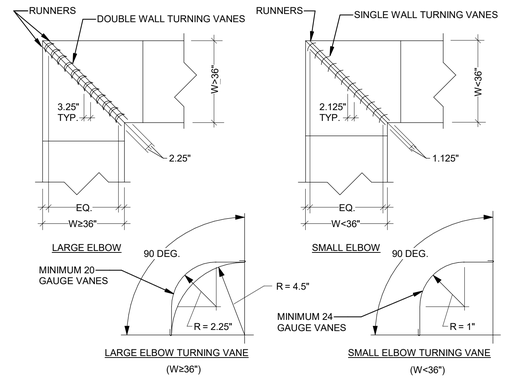
1 ROOF MOUNTED EXHAUST FAN DETAIL — N.T.S. — UPBLAST, STEEL JOIST, METAL DECK



NOTES:
1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

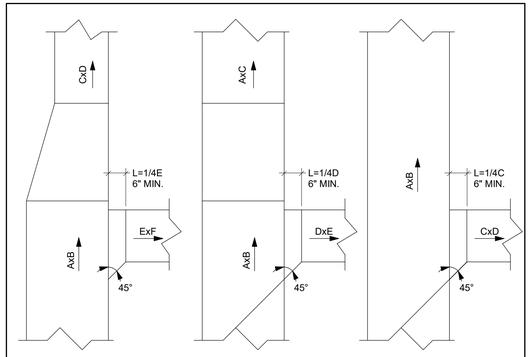
NOTE:
ELBOWS WITH 90 DEGREE SQUARE ON INSIDE RADIUS ARE NOT ACCEPTABLE.

2 RECTANGULAR 90° RADIUS ELBOW — N.T.S.



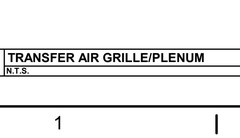
NOTES:
1. ALL VANES SHALL BE SECURE AND STABLE IN OPERATING POSITION.
2. VANES SHALL BE SECURELY FASTENED TO RUNNERS.
3. INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED LENGTH TO 60".
4. VANES ARE NOT TO HAVE TRAILING EDGES.

3 RECTANGULAR 90° MITERED ELBOW — N.T.S.



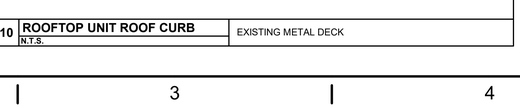
NOTES:
1. DIMENSIONS A, B, C, D, E, AND F AS INDICATED ON THE DRAWINGS.
2. TRANSITIONS MAY BE FLAT ON TOP, FLAT ON BOTTOM OR CONCENTRIC.
3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.
4. TAP HEIGHT DIMENSION SHOULD BE 2" SMALLER THAN MAIN DUCT HEIGHT.

4 RECTANGULAR 90° SIDE TAP — N.T.S.



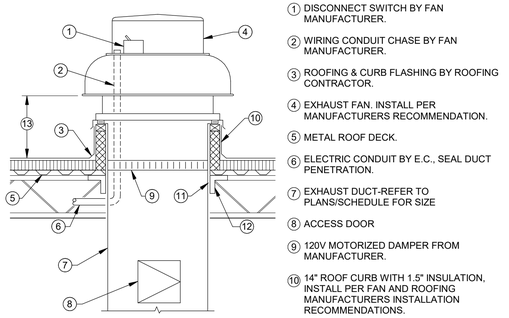
1. AIR DEVICE. SEE SCHEDULE.
2. DUCT DROP. SEE PLAN FOR SIZE.
3. TURNING VANES.
4. FLOOR.
5. DEVICE TO REUSE EXISTING WALL OPENING.

5 LOW EXHAUST GRILLE — N.T.S.



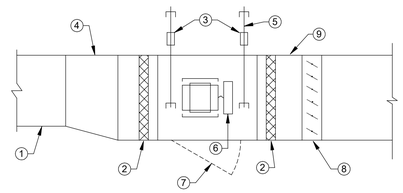
1. PLENUM - SIZE TO MATCH GRILLE. PAINT INTERIOR OF PLENUM FLAT BLACK.
2. EXHAUST/RETURN GRILLE FRAME TO MATCH CEILING CONDITION.
3. SPIN-IN FITTING WITH BALANCING DAMPER, USE FOR ALL ACCESSIBLE CEILINGS.
4. PROVIDE REMOTE BALANCING DAMPER IN BRANCH DUCT ABOVE ACCESSIBLE CEILING FOR EACH GRILLE WHERE GRILLE IS INSTALLED ABOVE INACCESSIBLE CEILING.
5. PROVIDE BALANCING DAMPER AT DEVICE ONLY WHERE DUCT MOUNTED DAMPER CANNOT BE PROVIDED DUE TO INACCESSIBLE CEILING.
6. FLEXIBLE DUCT ACCEPTABLE ABOVE ACCESSIBLE CEILING ONLY. MAX. 2 FT., REFER TO CEILING DIFFUSER DETAIL FOR INSTALLATION REQUIREMENTS.
7. SHEETMETAL DUCT.
8. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
9. FASTEN SHEETMETAL PLENUM OR DUCT TO AIR DEVICE, EACH SIDE.
10. DUCT STRAP HANGER.
11. VIEWABLE PORTION OF DUCT INTERIOR TO BE PAINTED FLAT BLACK.

6 EXHAUST/RETURN GRILLE - DUCTED — N.T.S.



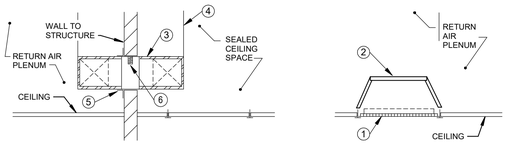
1. DISCONNECT SWITCH BY FAN MANUFACTURER.
2. WIRING CONDUIT CHASE BY FAN MANUFACTURER.
3. ROOFING & CURB FLASHING BY ROOFING CONTRACTOR.
4. EXHAUST FAN. INSTALL PER MANUFACTURERS RECOMMENDATION.
5. METAL ROOF DECK.
6. ELECTRIC CONDUIT BY E.C., SEAL DUCT PENETRATION.
7. EXHAUST DUCT-REFER TO PLANS/SCHEDULE FOR SIZE
8. ACCESS DOOR
9. 120V MOTORIZED DAMPER FROM MANUFACTURER.
10. 14" ROOF CURB WITH 1.5" INSULATION, INSTALL PER FAN AND ROOFING MANUFACTURERS INSTALLATION RECOMMENDATIONS.
11. FILL VOID BETWEEN DUCT AND STRUCTURE WITH FOAM INSULATION.
12. SUPPLEMENTAL STEEL FRAMING BY G.C.
13. MINIMUM 18" ABOVE ROOF DECK.

7 ROOF MOUNTED EXHAUST FAN DETAIL — N.T.S. — DOWNBLAST, STEEL JOIST, METAL DECK



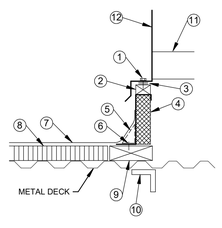
1. EXHAUST DUCT
2. FLEXIBLE DUCT CONNECTION VIBRATION ISOLATORS
3. VIBRATION ISOLATORS
4. TRANSITION TO EXHAUST FAN INLET SIZE
5. THREADED ROD
6. FAN MOTOR
7. ACCESS DOOR
8. MOTORIZED DAMPER PROVIDED WITH EXHAUST FAN
9. DISCHARGE DUCT IS SAME SIZE AS FAN OUTLET

8 INLINE EXHAUST FAN — N.T.S. — **EXTERIOR WALL OUTLET**



1. RETURN GRILLE.
2. RETURN AIR CANOPY.
3. TRANSFER AIR DUCT THROUGH FULL HEIGHT WALL. PROVIDE 1/2" INTERNAL DUCT LINER. REFER TO FLOOR PLAN FOR DUCT SIZE.
4. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
5. FRAME OPENING THROUGH WALL AS REQUIRED AND SEAL WALL PENETRATION SMOKE TIGHT.
6. FIRE DAMPER WHERE INDICATED ON PLAN.

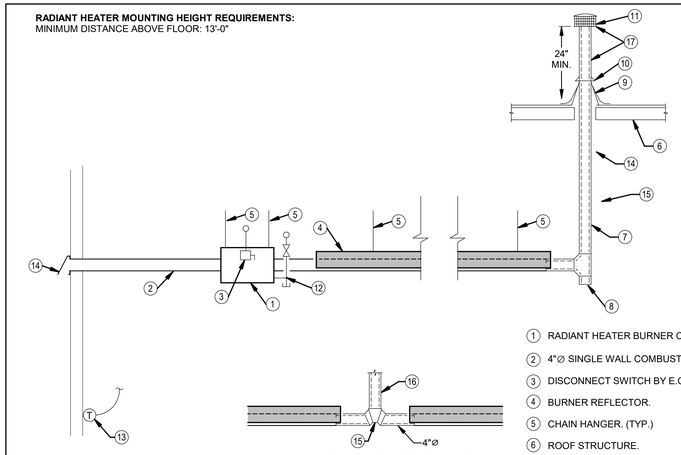
9 TRANSFER AIR GRILLE/PLENUM — N.T.S.



1. SECURE EQUIPMENT TO CURB WITH 3/8" LAG BOLTS PER MFR. RECOMMENDATION.
2. PRESSURE TREATED WOOD NAILER.
3. GASKET PROVIDED WITH ROOFTOP UNIT.
4. 14" HIGH ALUMINUM CURB WITH 1.5" FIBERGLASS INSULATION.
5. FLASHING, CANT STRIPS (IF REQUIRED), ROOFING MATERIAL & ROOFING CONSTRUCTION BY CONTRACTOR.
6. FASTEN CURB BASE TO BLOCKING.
7. EXISTING ROOFING.
8. EXISTING INSULATION.
9. PRESSURE TREATED WOOD BLOCKING BY H.C. FASTEN TO DECK. BLOCKING TO BE SAME SIZE AS INSULATION THICKNESS.
10. STEEL FRAMING BY G.C.
11. ROOFTOP BASE.
12. ROOFTOP UNIT.

10 ROOFTOP UNIT ROOF CURB — N.T.S. — EXISTING METAL DECK

RADIANT HEATER MOUNTING HEIGHT REQUIREMENTS:
MINIMUM DISTANCE ABOVE FLOOR: 13'-0"



1. RADIANT HEATER BURNER CONTROL BOX.
2. 4"Ø SINGLE WALL COMBUSTION AIR DUCT.
3. DISCONNECT SWITCH BY E.C.
4. BURNER REFLECTOR.
5. CHAIN HANGER. (TYP.)
6. ROOF STRUCTURE.
7. 4"Ø TYPE B DOUBLE WALL GAS VENT.
8. CLEAN OUT CAP.
9. S.S. FLASHING CONE, SEAL PENETRATION THROUGH ROOF WATERTIGHT.
10. STORM COLLAR.
11. FLUE VENT CAP. BOTTOM OF CAP MINIMUM 24" ABOVE ROOF ON UPSLOPE SIDE.
12. NATURAL GAS CONNECTION, SHUTOFF VALVE, AND DIRT LEG BY P.C.
13. WALL MOUNTED THERMOSTAT.
14. 4"Ø INTAKE CAP WITH BIRD SCREEN. FINAL CUSTOM COLOR SELECTED BY ARCHITECT, FINAL PAITING BY G.C.
15. DUAL EXHAUST WYE.
16. 6"Ø TYPE B DOUBLE WALL GAS VENT. 6"Ø FLUE AND VENT CAP.
17. CUSTOM PAINT COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY G.C.

11 RADIANT HEATER — N.T.S

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PROJECT # 24065

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

TITLE
DETAILS

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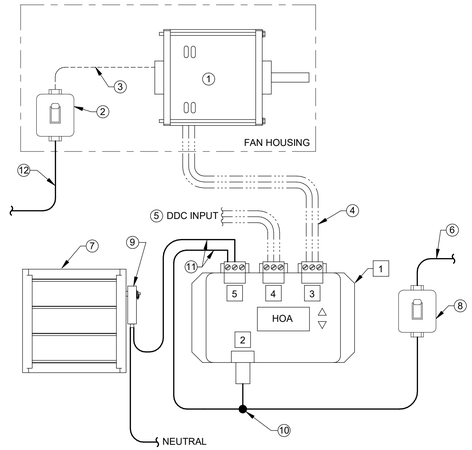


CONTROLLER NOTES

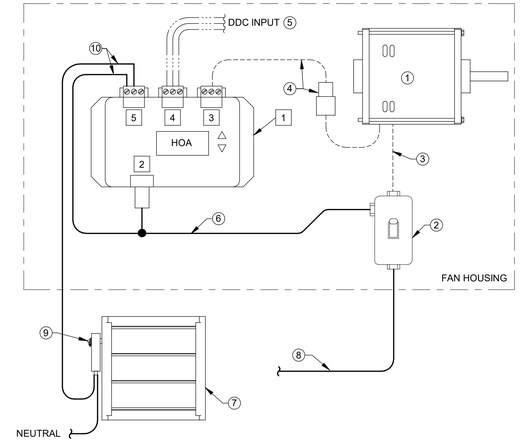
1. HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
2. 100 - 277V / 1 PHASE POWER TO CONTROLLER.
3. MOTOR CONTROL: 0-10 VDC, 24V, & COM.
4. DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
5. AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V. N.O., N.C., & COM.

DETAIL NOTES

1. ECM FAN MOTOR
2. TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
3. THREE PHASE POWER SUPPLY WIRING BY MANUFACTURER.
4. DDC CONTROL WIRING TO FAN BY H.C.
5. DDC INPUT CONTROL WIRING BY H.C.
6. 120V POWER BY E.C.
7. DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
8. TOGGLE DISCONNECT SWITCH BY E.C.
9. 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
10. TAP 120V TO PROVIDE POWER TO BOTH HOA CONTROLLER AND DAMPER ACTUATOR.
11. WIRE 120V DAMPER POWER THROUGH AUXILARY CONTACT.
12. FAN SUPPLY CIRCUIT BY E.C.

WIRING BY H.C.
WIRING BY E.C.
WIRING BY MANUFACTURER

1 HOA CONTROLLER - THREE PHASE ECM FAN WIRING DIAGRAM
N.T.S.



CONTROLLER NOTES

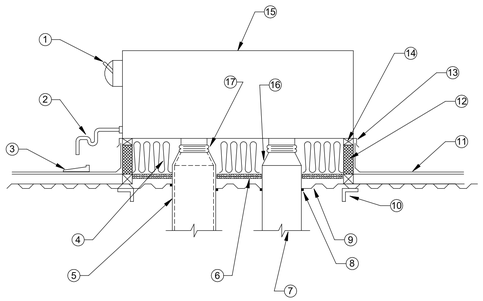
1. HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
2. 100 - 277V / 1 PHASE POWER TO CONTROLLER.
3. MOTOR CONTROL: 0-10 VDC, 24V, & COM.
4. DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
5. AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V. N.O., N.C., & COM.

DETAIL NOTES

1. ECM FAN MOTOR.
2. TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
3. SINGLE PHASE WIRING BY MANUFACTURER.
4. CONTROL WIRING BY MANUFACTURER.
5. DDC INPUT CONTROL WIRING BY H.C.
6. LINE VOLTAGE TO POWER MOTORIZED DAMPER BY E.C. TAP ON LOAD SIDE OF TOGGLE SWITCH. PROVIDES POWER TO HOA CONTROLLER AND DAMPER ACTUATOR.
7. DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
8. SUPPLY CIRCUIT POWER TO DISCONNECT BY E.C.
9. 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
10. WIRE 120V DAMPER POWER THROUGH AUXILARY CONTACT.

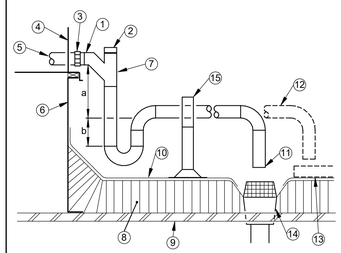
WIRING BY H.C.
WIRING BY E.C.
WIRING BY MANUFACTURER

2 HOA CONTROLLER - SINGLE PHASE ECM FAN WIRING DIAGRAM
N.T.S.



1. ELECTRICAL DISCONNECT W/ GFI RECEPTACLE SUPPLIED BY UNIT MANUFACTURER. POWER CONN. BY E.C. POWER ROUTED THROUGH ROOF CURB INTO UNIT.
2. CONDENSATE DRAIN, REFER TO DETAIL
3. PROVIDE CONCRETE SPLASH BLOCK ON NEOPRENE PAD UNDER CONDENSATE DRAIN
4. FILL ALL VOIDS BETWEEN ROOF DECK & BOTTOM OF UNIT WITH UNFACED BATT INSULATION
5. EXTERNALLY INSULATED SUPPLY DUCT, REFER TO PLANS FOR SIZE
6. PROVIDE TWO LAYERS OF 5/8" WATER RESISTANT GYPSUM BOARD ON ROOF DECK
7. RETURN DUCT, REFER TO PLANS FOR SIZE
8. SEAL AROUND DUCT PENETRATIONS, TYP.
9. ROOF OPENINGS SHALL BE NO LARGER THAN REQUIRED FOR DUCT PENETRATIONS.
10. STRUCTURAL SUPPORT BY OTHERS, TYP.
11. FLASHING, CANT STRIPS (IF REQUIRED), ROOFING MATERIAL & ROOF CONSTRUCTION BY ROOFING CONTRACTOR
12. 14" HIGH INSULATED ROOF CURB PROVIDED BY THE H.C. SEE DETAIL.
13. COUNTER FLASHING BY H.C.
14. NAILING STRIP
15. ROOFTOP UNIT - REFER TO PLANS FOR CAPACITIES
16. DUCT TRANSITION AS REQUIRED, TYP.
17. FLEXIBLE DUCT CONNECTION, TYP.

3 ROOFTOP UNIT
N.T.S.

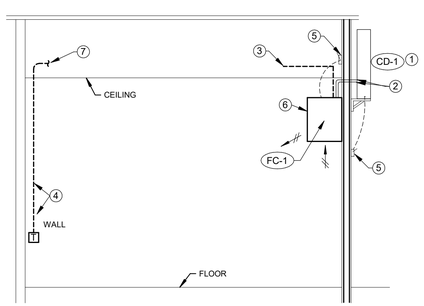


1. DRAIN PIPE. SAME SIZE AS UNIT OUTLET.
2. CLEANOUT PLUG.
3. UNION.
4. SIDE OF ROOFTOP UNIT.
5. FROM DRAIN PAN.
6. 14" HIGH ROOF CURB. SEE DETAIL.
7. DRAINAGE WYE FITTING.
8. ROOF INSULATION.
9. ROOF DECK.
10. ROOFING MEMBRANE.
11. OPEN DRAIN - 1" AIR GAP.
12. ALTERNATE ROUTING OF DRAIN.
13. 12"x12"x1" THICK CONCRETE SPLASH BLOCK. PLACE ON TOP OF ADDITIONAL PIECE OF ROOFING MEMBRANE.
14. ROOF DRAIN.
15. ADJUSTABLE PIPE SUPPORT. ERICO CADDY PYRAMID EZ OR EQUAL. SET SUPPORT ON MEMBRANE.

CALCULATIONS:
a = SUPPLY FAN T.S.P. + 1"
b = a / 2

-VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

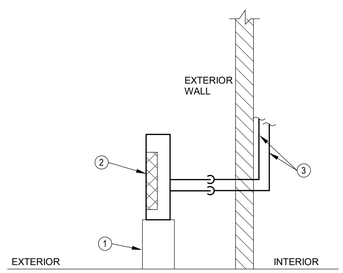
4 ROOFTOP COOLING COIL CONDENSATE PIPING
N.T.S.

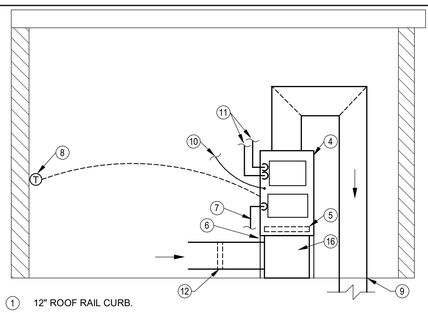


1. MOUNT TO EXTERIOR WALL ON UNISTRUT FRAMING. MOUNT 9'-0" ABOVE GRADE.
2. INSULATED SUCTION, LIQUID REFRIGERANT PIPING LINE SETS WITH QUICK CONNECTS.
3. CONDENSATE PIPING. 1/2" SIZE.
4. WALL MOUNTED MICROPROCESSOR CONTROLLER WITH LCD DISPLAY, TEMPERATURE SETPOINT ADJUSTMENT, ALARM WITH SILENCE AND UNIT ON/OFF SELECTION. CONCEALED WIRING BY H.C.
5. DISCONNECT SWITCH, ELECTRICAL POWER FEED BY E.C.
6. WALL MOUNTED EVAPORATOR UNIT.
7. CONTROL WIRING BETWEEN EVAPORATOR AND CONDENSING UNIT BY H.C. ROUTE IN CONDUIT WITH REFRIGERANT PIPING.

NOTE: ALL EXPANDED PIPING AND CONTROL WIRING SHALL BE CONCEALED IN A PIPE SHROUD, COLOR TO MATCH WALL.

5 SPLIT SYSTEM - WALL MOUNTED UNIT
N.T.S.





1. 12" ROOF RAIL CURB.
2. CONDENSING UNIT.
3. REFRIGERANT PIPING UP ON INTERIOR WALL. SECURE TO WALL WITH PIPE CLAMP.
4. MULTI-POSITION AHU.
5. FILTER KIT PROVIDED WITH UNIT.
6. MOUNT UNIT ON 18" TALL FRAME.
7. CONDENSATE DRAIN. ROUTE TO FLOOR DRAIN. PROVIDE TRAP PER MANUFACTURER INSTRUCTIONS.
8. REMOTE ROOM THERMOSTAT.
9. DUCT FLOOR PENETRATION. SUPPLEMENTAL FRAMING BY G.C.
10. POWER BY E.C.
11. REFRIGERANT PIPING TO CONDENSING UNIT.
12. CARBON FILTER. EQUAL TO CAMFIL #CC-PG-LGX048. PROVIDE 1" FILTER FRAME FROM CAMFIL.

6 SPLIT SYSTEM - MULTI-POSITION AHU
N.T.S.

App Architecture
creative focused design
615 Woodside Drive, Englewood, Ohio 45322
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www.app-arch.com

STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT STATION 15

2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

TITLE
DETAILS

SHEET NO.
H3.5

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3921
PROJECT # 24065

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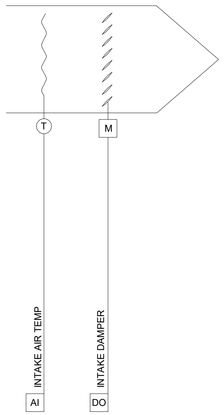
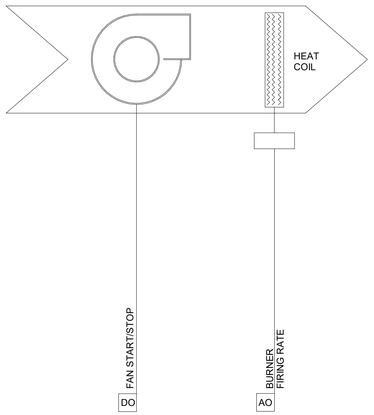
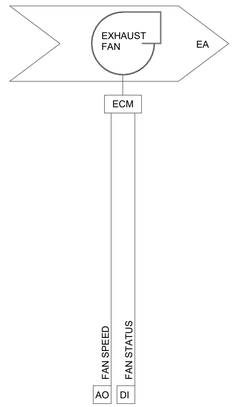


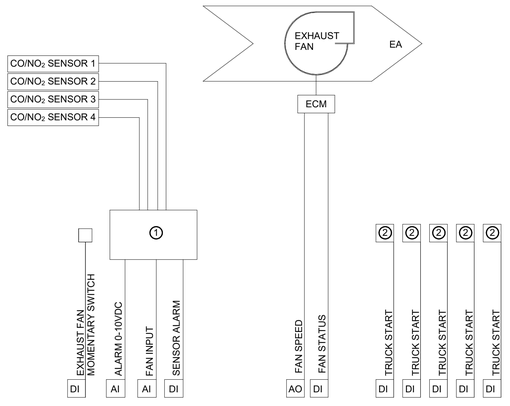
MAKEUP AIR DAMPER



GAS FIRED UNIT HEATER



EF-5 CONTROLS - MINIMUM VENTILATION



EF-4 CONTROLS - MAIN VENTILATION

1. CO/NO2 CONTROL PANEL BY T.C. SEE H1.2 FOR MOUNTING LOCATION AND REFER TO SPECIFICATIONS FOR EQUIPMENT INFORMATION
2. NEDERMAN AUTO START RECEIVER - PART # 89115581 PROVIDED BY T.C.

4 EF-4 - APPARATUS BAY CONTROL DIAGRAM

SEQUENCE OF OPERATION

OUTDOOR AIR DAMPER

THE OUTDOOR AIR DAMPER SHALL OPEN TO 100% WHEN EF-3 IS OPERATING.

DAMPER SHALL BE CLOSED WHEN EF-3 IS OFF.

THE INTAKE AIR TEMPERATURE SENSOR SHALL CONTROL THE GAS FIRED UNIT HEATER, GUH-1, BURNER FIRING RATE.

GAS FIRED UNIT HEATER

THE GAS-FIRED MODULATING HEATER SHALL OPERATE IN CONJUNCTION WITH THE INTAKE DAMPER TO PREHEAT INDUCED MAKE-UP AIR.

THE GAS-FIRED UNIT HEATER SHALL BE OFF WHEN THE INTAKE DAMPER IS CLOSED.

WHEN THE INTAKE DAMPER IS OPEN, THE UNIT FAN SHALL START AND THE BURNER SHALL FIRE WHEN THE INTAKE TEMPERATURE IS AT OR BELOW 40 DEG. F. (ADJ.) VIA THE INTEGRAL CONTROLLER.

MANUAL MOMENTARY WALL SWITCH

THE MANUAL MOMENTARY OVER-RIDE SWITCH SHALL COMMAND THE FAN TO 50% OF MAXIMUM AIRFLOW FOR 30 MINUTES (ADJ).

EF-3 OPERATION

EF-3 SHALL OPERATE CONTINUOUSLY.

EF-4 OPERATION

EF-4 SHALL BE NORMALLY OFF.

THE FAN SHALL START UPON THE DDC SYSTEM RECEIVING AN ALARM FROM THE CO/NO2 MONITORING SYSTEM, ACTIVATION FROM THE NEEDERMAN TRUCK START RECEIVERS, OR A LOCAL MANUAL, MOMENTARY, OVER-RIDE WALL PUSH BUTTON.

CO/NO2 SENSOR CONTROL

THE APPARATUS BAY'S CO/NO2 SHALL BE PROGRAMMED TO THE FOLLOWING ALARM LEVELS.

ALARM LEVELS:
- NO ALARM: CO (<34 PPM) AND NO2 (<2.5 PPM)
- ALARM LEVEL 1: CO (35 - 50 PPM) OR NO2 (2.5 - 2.8 PPM)
- ALARM LEVEL 2: CO (>50 PPM) OR NO2 (>2.8 PPM)

FAN AIRFLOW:
- NO ALARM: OFF
- ALARM LEVEL 1: 50% OF MAXIMUM AIRFLOW
- ALARM LEVEL 2: MAXIMUM AIRFLOW

WHEN THE FAN IS INDEXED TO EITHER THE 50% OR MAXIMUM AIRFLOW, THE FAN SHALL RUN FOR A MINIMUM OF 30 MINUTES (ADJ.) AT THE RESPECTIVE AIRFLOW.

TRUCK START SIGNAL

UPON A SIGNAL FROM ANY OF THE FIVE (5) TRUCK START RECEIVERS, THE FAN SHALL RUN AT MAXIUM AIRFLOW FOR 5 MINUTES.

MANUAL MOMENTARY WALL SWITCH

THE MANUAL MOMENTARY OVER-RIDE SWITCH SHALL COMMAND THE FAN TO 50% OF MAXIMUM AIRFLOW FOR 30 MINUTES (ADJ).

FAN SPEED CONTROL PRIORITY

THE CO/NO2 SENSOR SHALL HAVE PRIORITY TO CHANGE THE FAN SPEED AT ANY TIME. IF THE MOMENTARY WALL SWITCH IS ACTIVATED TO RAISE THE FAN TO 50% AIRFLOW AND THE CO/NO2 SENSOR ALARMS, THE FAN SHALL BE INDEXED TO RUN AT THE RESPECTIVE ALARM LEVEL AND RESET ITS RUN TIMER.

IF THE TRUCK START SIGNAL HAS ACTIVATED THE FAN AND A CO/NO2 ALARM IS RECEIVED, THE FAN RUNTIME SHALL RESET TO 30 MINUTES.

THE MOMENTARY FAN SWITCH SHALL ONLY START THE FAN SPEED IF THERE IS NO ALARM LEVEL FROM THE CO/NO2 SENSOR OR TRUCK SIGNAL, AND THE FAN IS OFF. THE MOMENTARY WALL SWITCH SHALL NOT OVERRIDE THE CO/NO2 CONTROLLER OR TRUCK START.

SEQUENCE OF OPERATION

A. FAN OPERATION

THE EXHAUST FAN SHALL RUN CONTINUOUSLY.

3 EF-3 CONTROL DIAGRAM

SEQUENCE OF OPERATION

A. THE GAS-FIRED RADIANT HEATER SHALL OPERATE TO MAINTIAN THEIR RESPECTIVE THERMOSTAT (NON-DDC)

B. PROVIDE DDC TEMPERATURE SENSORS PER SHEET H1.1 TO MONITOR APPARATUS BAY TEMPERATURE. IF THE APPARATUS BAY TEMPERATURE DROPS BELOW 50°F (ADJ.) FOR 5 MIN (ADJ.) AN ALARM SHALL BE SENT TO THE CONSOLE.

1 GAS-FIRED RADIANT HEATERS CONTROL DIAGRAM

MONITORING AND ALARMS

A. THE FOLLOWING POINTS SHALL BE MONITORED AND ALARMED AT THE MONITORING CONSOLE AND AS OTHERWISE SPECIFIED HEREINAFTER. THESE ARE IN ADDITION TO POINTS REQUIRED FOR OPERATIONAL CONTROL.

B. POINT DESCRIPTIONS

a. CURRENT SENSING RELAYS - PROVIDE FOR:
   1) RTU-1 & 2 SUPPLY AIR FAN
   4) RTU-1 & 2 COMPRESSORS
   5) EXHAUST FANS
   COORDINATE REQUIREMENTS FOR ECM EQUIPMENT.

b. HIGH/LOW TEMPERATURE ALARMS ON ALL DDC TEMPERATURE SENSORS WITH OFF-NORMAL MESSAGES.

c. GENERATOR TROUBLE.

d. FC-1/CD-1

e. FC-2/CD-2

f. FC-3/CD-3

C. WHEN INTERFACING WITH EQUIPMENT PROVIDING REMOTE ANALOG INPUT OR RECEIVING ANALOG OUTPUTS TO THE DDC SYSTEM OR WHEN MONITORING REQUIRES THE INSTALLATION OF EXTERNAL RELAYS AT THE EQUIPMENT BEING MONITORED, COORDINATE ALL REQUIREMENTS SUCH AS RANGE, SIGNAL CONDITION, GROUNDIN, WIRING AND INPUT IMPEDANCE WITH THE SUPPLIER OF THE EQUIPMENT BEING MONITORED.

D. DIAL OUT ALARMS - DDC SYSTEM SHALL BE CAPABLE OF INITIATING DIAL OUT ALARM MESSAGE TO PAGERS, TELEPHONE OR INTERNET WHENEVER THE SYSTEM DETECTS AN ALARM. COORDINATE LIST OF DESIRED ALARMS AND INTERFACE WITH OWNERS' NOTIFICATION EQUIPMENT WITH THE OWNER.

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT
STATION 15

2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

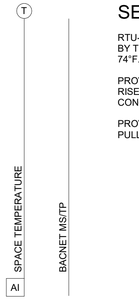
TITLE
CONTROLS

SHEET NO.
H4.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3921

PROJECT # 24065

7/31/2025 8:01:49 AM



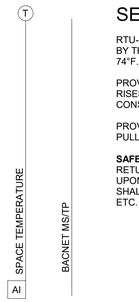
SEQUENCE OF OPERATION

RTU-1 SHALL OPERATE BASED ON A 7-DAY PROGRAMMABLE THERMOSTAT PROVIDED BY THE UNIT MANUFACTURER. PROGRAM TO LIMIT TEMPERATURE RANGE TO 68°F - 74°F.

PROVIDE A DDC TEMPERATURE SENSOR AS INDICATED ON PLAN. IF TEMPERATURE RISES ABOVE 78°F (ADJ.) OR DROPS BELOW 64°F (ADJ.), SEND AN ALARM TO THE CONSOLE.

PROVIDE BACNET MS/TP CONNECTION FROM THE RTU TO THE BUILDING DDC SYSTEM. PULL IN ALL UNIT ALARMS. PROVIDE OWNER WITH DIAL-OUT ALERT FOR ALARMS.

1 RTU-1 CONTROLS



SEQUENCE OF OPERATION

RTU-2 SHALL OPERATE BASED ON A 7-DAY PROGRAMMABLE THERMOSTAT PROVIDED BY THE UNIT MANUFACTURER. PROGRAM TO LIMIT TEMPERATURE RANGE TO 68°F - 74°F.

PROVIDE A DDC TEMPERATURE SENSOR AS INDICATED ON PLAN. IF TEMPERATURE RISES ABOVE 78°F (ADJ.) OR DROPS BELOW 64°F (ADJ.), SEND AN ALARM TO THE CONSOLE.

PROVIDE BACNET MS/TP CONNECTION FROM THE RTU TO THE BUILDING DDC SYSTEM. PULL IN ALL UNIT ALARMS. PROVIDE OWNER WITH DIAL-OUT ALERT FOR ALARMS.

SAFETIES:
RETURN AIR SMOKE DETECTOR SHALL BE TIED INTO RTU-1 FAN MOTOR STARTER. UPON RECEIVING A SIGNAL FROM THE RETURN AIR SMOKE DETECTOR, THE FAN SHALL SHUT-DOWN. THE H.C. / T.C. SHALL PROVIDE ALL REQUIRED RELAYS, WIRING, ETC. TO ACOMPLISH THIS SAFETY.

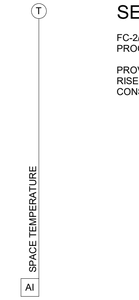
2 RTU-2 CONTROLS

SEQUENCE OF OPERATION

FC-1/CD-1 SHALL OPERATE 24/7/365 TO MAINTAIN SPACE TEMPERATURE SETPOINT. PROGRAM THERMOSTAT TEMPERATURE RANGE TO 68-74 DEG. F.

PROVIDE A DDC TEMPERATURE SENSOR AS INDICATED ON PLAN. IF TEMPERATURE RISES ABOVE 78°F (ADJ.) OR DROPS BELOW 64°F (ADJ.), SEND AN ALARM TO THE CONSOLE.

3 FC-1 / CD-1 CONTROLS



SEQUENCE OF OPERATION

FC-2/CD-2 SHALL OPERATE 24/7/365 TO MAINTAIN SPACE TEMPERATURE SETPOINT. PROGRAM THERMOSTAT TEMPERATURE RANGE TO 68-74 DEG. F.

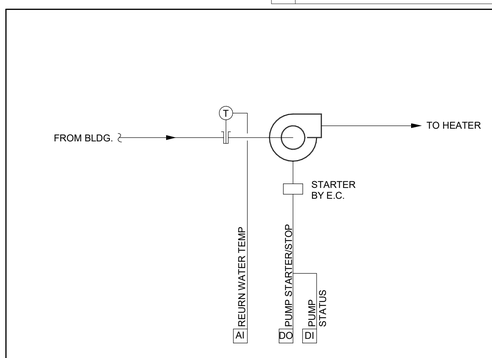
PROVIDE A DDC TEMPERATURE SENSOR AS INDICATED ON PLAN. IF TEMPERATURE RISES ABOVE 78°F (ADJ.) OR DROPS BELOW 64°F (ADJ.), SEND AN ALARM TO THE CONSOLE.

4 FC-2 / CD-2 CONTROLS

SEQUENCE OF OPERATION

FC-3/CD-3 SHALL OPERATE 24/7/365 TO MAINTAIN SPACE TEMPERATURE SETPOINT. PROGRAM THERMOSTAT TEMPERATURE RANGE TO 68-74 DEG. F.

5 FC-3 / CD-3 CONTROLS



SEQUENCE OF OPERATION

PUMP OPERATION

THE DOMESTIC HOT WATER RECIRCULATING PUMP SHALL BE STARTED AND STOPPED THROUGH THE DDC SYSTEM. PUMP SHALL OPERATE IN AN ENABLED OR DISABLED STATUS BASED ON BUILDING OCCUPANCY SCHEDULE.

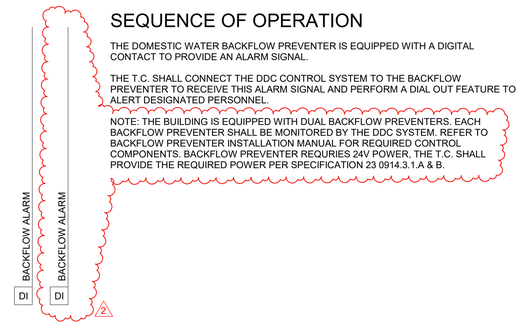
THE BUILDING SHALL BE OCCUPIED 24/7/365

PUMP ENABLE

THE PUMP SHALL BE ENABLED DURING BUILDING OCCUPIED HOURS. WHEN ENABLED THE PUMP SHALL OPERATE BASED ON THE BUILDING RETURN WATER TEMPERATURE SETPOINT, 110 DEG. F. AS THE TEMPERATURE DROPS BELOW SETPOINT THE PUMP SHALL START AND SHALL OPERATE FOR A MININIMUM OF ONE HOUR. AFTER THE ONE HOUR MININIMUM RUN TIME IF THE RETURN WATER TEMPERATURE IS 110 DEG. F. OR GREATER THE PUMP SHALL STOP.

NOTE: REFER TO PLUMBING DRAWING FOR INSTALLATION LOCATION OF PIPE MOUNTED TEMPERATURE

6 DOMESTIC HOT WATER RECIRCULATING PUMP CONTROL DIAGRAM
N.T.S.



SEQUENCE OF OPERATION

THE DOMESTIC WATER BACKFLOW PREVENTER IS EQUIPPED WITH A DIGITAL CONTACT TO PROVIDE AN ALARM SIGNAL.

THE T.C. SHALL CONNECT THE DDC CONTROL SYSTEM TO THE BACKFLOW PREVENTER TO RECEIVE THIS ALARM SIGNAL AND PERFORM A DIAL OUT FEATURE TO ALERT DESIGNATED PERSONNEL.

NOTE: THE BUILDING IS EQUIPPED WITH DUAL BACKFLOW PREVENTERS. EACH BACKFLOW PREVENTER SHALL BE MONITORED BY THE DDC SYSTEM. REFER TO BACKFLOW PREVENTER INSTALLATION MANUAL FOR REQUIRED CONTROL COMPONENTS. BACKFLOW PREVENTER REQURIES 24V POWER, THE T.C. SHALL PROVIDE THE REQUIRED POWER PER SPECIFICATION 23 0914.3.1.A & B.

7 DOMESTIC WATER BACKFLOW PREVENTER

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STATE OF OHIO
JEFFREY D. ZELINSKI
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REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT
STATION 15

2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION
2	10/08/2025	ADDENDUM 2

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

TITLE
CONTROLS

SHEET NO.
H4.2

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3621

PROJECT # 24065

10/9/2025 9:53:34 AM

VENTILATION GENERAL NOTES

1. PER OMC 403.2 EXCEPTION #2, CALCULATIONS ARE BASED ON ASHRAE 62.1 - 2019. THE TABLES ON THIS SHEET ARE THE ASHRAE 62.1 VENTILATION RATE PROCEDURE CALCULATIONS. THIS SPREAD SHEET IS PUBLISHED BY ASHRAE.
2. SPREAD SHEETS CALCULATE THE CRITICAL ZONE, UNCORRECTED OUTDOOR AIR FLOW, SYSTEM TOTAL VENTILATION EFFICIENCY, AND A FINAL OUTDOOR AIR INTAKE REQUIRED (V_{OT}).
3. CALCULATION SUMMARY

RTU-1:

REQUIRED OUTDOOR AIR:	255 CFM
TOTAL OUTDOOR AIR PROVIDED:	550 CFM

RTU-2:

REQUIRED OUTDOOR AIR:	283 CFM
TOTAL OUTDOOR AIR PROVIDED:	870 CFM

2

Building:	**DFD Station 15**
System Tag/Name:	**RTU-1**
Operating Condition Description:	**24/7/365**
Units (select from pull-down list)	**IP**

Inputs for System	**Name**	**Units**	w/o diversity **System**		**Diversity**	w/ diversity **System**
Floor area served by system	As	sf	2,212			
Population of area served by system	Ps	P	7	D	100%	7
Design primary supply fan airflow rate	Vpsd	cfm	2,545		100%	2,545
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.06			
OA req'd per person for system area (Weighted average)	Rps	cfm/p	13.8			
Percent increase in Vbz over minimum required			0%			

Inputs for Potentially Critical zones — *Zone title turns purple italic for critical zone(s)*

Potentially Critical Zones

	Name	Units															
Zone Name				**HALL**	**LKR ROOM**	***LAUNDRY***	**TLT/ SHR**	**TLT/ SHR**	**TLT/ SHR**	**ADA DORM**	**ADA DORM**	**ADA DORM**	**DORM**	**DORM**	**DORM**	**DECON**	**Fitness**
Zone Tag				**113**	**115**	**116**	**117**	**118**	**119**	**120**	**121**	**122**	**123**	**124**	**125**	**126**	**127**
Occupancy Category			Select from pull-down list:	**Corridors**	**Occupiable storage rooms for dry materials**	**Laundry rooms within dwelling units**	**Restroom**	**Restroom**	**Restroom**	**Dwelling unit**	**Dwelling unit**	**Dwelling unit**	**Dwelling unit**	**Dwelling unit**	**Dwelling unit**	**Occupiable storage rooms for dry materials**	**Health club/weight rooms**
Floor Area of zone	Az	sf		402	124	96	67	86	80	126	123	118	102	104	102	251	431
Design population of zone	Pz	P	(default value listed; may be overridden)	0	0.248	0.96	0	0	0	0.252	0.246	0.236	0.204	0.208	0.204	0.502	4.31
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm		225	125	100	75	75	75	120	100	100	100	100	100	375	875
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:														
Frac. of local recirc. air that is representative of system RA	Er			0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Inputs for Operating Condition Analyzed																	
Percent of total design airflow rate at conditioned analyzed	Ds	%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed			Select from pull-down list:	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH
Zone air distribution effectiveness at conditioned analyzed	Ez			0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Primary air fraction of supply air at conditioned analyzed	Ep																

Results	Name	Units	
System Ventilation Efficiency	Ev		**0.88**
Outdoor air intake required for system	Vot	cfm	**255** ← MINIMUM VENTILATION OMC CHAPTER 4
Outdoor air per unit floor area	Vot/As	cfm/sf	**0.12**
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	**34.7**
Outdoor air as a % of design primary supply air	Ypd	%	**10%**

Detailed Calculations

	Name	Units	Formula		System	HALL 113	LKR ROOM 115	LAUNDRY 116	TLT/ SHR 117	TLT/ SHR 118	TLT/ SHR 119	ADA DORM 120	ADA DORM 121	ADA DORM 122	DORM 123	DORM 124	DORM 125	DECON 126	Fitness 127
Initial Calculations for the System as a whole																			
System primary supply air flow at conditioned analyzed	Vps	cfm	= Vpsd Ds	=	2545														
Uncorrected OA intake flow req'd for system	Vou	cfm	= Rps Ps + Ras As	=	226														
Uncorrected OA req'd as a fraction of primary SA	Xs		= Vou / Vps	=	0.09														
Initial Calculations for individual zones																			
Area outdoor air rate	Ra	cfm/sf				0.06	0.06	0.12	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
People outdoor air rate	Rp	cfm/p				0.00	5.00	5.00	0.00	0.00	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	20.00
Total supply air to zone (at condition being analyzed)	Vdz	cfm	Vdzd Ds			225	125	100	75	75	75	120	100	100	100	100	100	375	875
Primary airflow to zone (at condition being analyzed)	Vpz	cfm	= Vdz Ep	=		225	125	100	75	75	75	120	100	100	100	100	100	375	875
Breathing zone outdoor airflow	Vbz	cfm	= Rp Pz + Ra Az	=		24	9	16	0	0	0	9	9	8	7	7	7	18	112
Zone outdoor airflow	Voz	cfm	= Vbz / Ez	=		30	11	20	0	0	0	11	11	10	9	9	9	22	140
Fraction of zone supply not directly recirc. from zone	Fa		= Ep + (1-Ep) Er	=		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fraction of zone supply from fully mixed primary air	Fb		= Ep	=		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fraction of zone OA not directly recirc. from zone	Fc		= 1-(1-Ez)(1-Ep)(1-Er)	=		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
OA fraction required in the supply air to the zone	Zd		= Voz / Vdz	=		0.13	0.09	0.20	0.00	0.00	0.00	0.09	0.11	0.10	0.09	0.09	0.09	0.06	0.16
OA fraction required in the primary air to the zone	Zpz		= Voz / Vpz	=		0.13	0.09	0.20	0.00	0.00	0.00	0.09	0.11	0.10	0.09	0.09	0.09	0.06	0.16
System Ventilation Efficiency																			
Zone Ventilation Efficiency (App A Method)	Evz		= (Fa+FbXs-FcZpzEp)/Fa	=		0.95	1.00	0.88	1.09	1.09	1.09	1.00	0.98	0.99	1.00	1.00	1.00	1.03	0.93
System Ventilation Efficiency (App A Method)	Ev		= min (Evz)	=	**0.88**														
System Ventilation Efficiency (Table 6.3 Method)	Ev		= Value from Table 6.3	=	0.95														
Minimum outdoor air intake airflow																			
Outdoor Air Intake Flow required to System	Vot	cfm	= Vou / Ev	=	**255**														
OA intake req'd as a fraction of primary SA	Y		= Vot / Vps	=	**0.10**														
Outdoor Air Intake Flow required to System (Table 6.3 Method)	Vot	cfm	= Vou / Ev	=	239	**16.52**													
OA intake req'd as a fraction of primary SA (Table 6.3 Method)	Y		= Vot / Vps	=	0.09	**0.06**													
OA Temp at which Min OA provides all cooling																			
OAT below which OA Intake flow is @ minimum		Deg F	= {(Tp-dTsf)-(1-Y)*(Tr+dTrf)}/Y	=	-97														

NOTES
OMC CHAPTER 4 VENTILATION: 255 CFM

EXHAUST AIRFLOW: 300 CFM
POSITIVE PRESSURIZATION: 250 CFM
OUTSIDE AIR FLOW RATE: 550 CFM

Building:	**DFD Station 15**
System Tag/Name:	**RTU-2**
Operating Condition Description:	**24/7/365**
Units (select from pull-down list)	**IP**

Inputs for System	**Name**	**Units**	w/o diversity **System**		**Diversity**	w/ diversity **System**
Floor area served by system	As	sf	1,501			
Population of area served by system	Ps	P	25	D	100%	25
Design primary supply fan airflow rate	Vpsd	cfm	2,410		100%	2,410
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	0.07			
OA req'd per person for system area (Weighted average)	Rps	cfm/p	5.7			
Percent increase in Vbz over minimum required			0%			

Inputs for Potentially Critical zones — *Zone title turns purple italic for critical zone(s)*

Potentially Critical Zones

	Name	Units								
Zone Name				**REPORT**	**LOBBY**	**LT. DORM**	**TLT/ SHR**	**LT OFFICE**	**DAYROOM**	***KITCHEN***
Zone Tag				**101**	**102**	**103**	**104**	**105**	**109**	**114**
Occupancy Category			Select from pull-down list:	**Office space**	**Corridors**	**Dwelling unit**	**Restroom**	**Office space**	**Dayroom**	**Kitchen (cooking)**
Floor Area of zone	Az	sf		161	133	133	51	140	549	334
Design population of zone	Pz	P	(default value listed; may be overridden)	0.805	0	0.266	0	0.7	16.47	6.68
Design total supply to zone (primary plus local recirculated)	Vdzd	cfm		470	100	240	130	220	750	500
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?			Select from pull-down list or leave blank if N/A:							
Frac. of local recirc. air that is representative of system RA	Er			0.50	0.50	0.50	0.50	0.50	0.50	0.50
Inputs for Operating Condition Analyzed										
Percent of total design airflow rate at conditioned analyzed	Ds	%	100%	100%	100%	100%	100%	100%	100%	100%
Air distribution type at conditioned analyzed			Select from pull-down list:	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH	CSCRH
Zone air distribution effectiveness at conditioned analyzed	Ez			0.80	0.80	0.80	0.80	0.80	0.80	0.80
Primary air fraction of supply air at conditioned analyzed	Ep									

Results	Name	Units	
System Ventilation Efficiency	Ev		**0.88**
Outdoor air intake required for system	Vot	cfm	**283** ← MINIMUM VENTILATION OMC CHAPTER 4
Outdoor air per unit floor area	Vot/As	cfm/sf	**0.19**
Outdoor air per person served by system (including diversity)	Vot/Ps	cfm/p	**11.4**
Outdoor air as a % of design primary supply air	Ypd	%	**12%**

Detailed Calculations

	Name	Units	Formula		System	REPORT 101	LOBBY 102	LT. DORM 103	TLT/ SHR 104	LT OFFICE 105	DAYROOM 109	KITCHEN 114
Initial Calculations for the System as a whole												
System primary supply air flow at conditioned analyzed	Vps	cfm	= Vpsd Ds	=	2410							
Uncorrected OA intake flow req'd for system	Vou	cfm	= Rps Ps + Ras As	=	248							
Uncorrected OA req'd as a fraction of primary SA	Xs		= Vou / Vps	=	0.10							
Initial Calculations for individual zones												
Area outdoor air rate	Ra	cfm/sf				0.06	0.06	0.06	0.00	0.06	0.06	0.12
People outdoor air rate	Rp	cfm/p				5.00	0.00	5.00	0.00	5.00	5.00	7.50
Total supply air to zone (at condition being analyzed)	Vdz	cfm	Vdzd Ds			470	100	240	130	220	750	500
Primary airflow to zone (at condition being analyzed)	Vpz	cfm	= Vdz Ep	=		470	100	240	130	220	750	500
Breathing zone outdoor airflow	Vbz	cfm	= Rp Pz + Ra Az	=		14	8	9	0	12	115	90
Zone outdoor airflow	Voz	cfm	= Vbz / Ez	=		17	10	12	0	15	144	113
Fraction of zone supply not directly recirc. from zone	Fa		= Ep + (1-Ep) Er	=		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fraction of zone supply from fully mixed primary air	Fb		= Ep	=		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fraction of zone OA not directly recirc. from zone	Fc		= 1-(1-Ez)(1-Ep)(1-Er)	=		1.00	1.00	1.00	1.00	1.00	1.00	1.00
OA fraction required in the supply air to the zone	Zd		= Voz / Vdz	=		0.04	0.10	0.05	0.00	0.07	0.19	0.23
OA fraction required in the primary air to the zone	Zpz		= Voz / Vpz	=		0.04	0.10	0.05	0.00	0.07	0.19	0.23
System Ventilation Efficiency												
Zone Ventilation Efficiency (App A Method)	Evz		= (Fa+FbXs-FcZpzEp)/Fa	=		1.07	1.00	1.05	1.10	1.04	0.91	0.88
System Ventilation Efficiency (App A Method)	Ev		= min (Evz)	=	**0.88**							
System Ventilation Efficiency (Table 6.3 Method)	Ev		= Value from Table 6.3	=	0.92							
Minimum outdoor air intake airflow												
Outdoor Air Intake Flow required to System	Vot	cfm	= Vou / Ev	=	**283**							
OA intake req'd as a fraction of primary SA	Y		= Vot / Vps	=	**0.12**							
Outdoor Air Intake Flow required to System (Table 6.3 Method)	Vot	cfm	= Vou / Ev	=	269	**14.37**						
OA intake req'd as a fraction of primary SA (Table 6.3 Method)	Y		= Vot / Vps	=	0.11	**0.05**						
OA Temp at which Min OA provides all cooling												
OAT below which OA Intake flow is @ minimum		Deg F	= {(Tp-dTsf)-(1-Y)*(Tr+dTrf)}/Y	=	-73							

NOTES
OMC CHAPTER 4 VENTILATION: 283 CFM

EXHAUST AIRFLOW: 870 CFM
OUTSIDE AIRFLOW RATE: 870 CFM

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, OH 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION
2	10/08/2025	ADDENDUM 2

DATE	08/01/2025
JOB NO.	4284.00
DRAWN	DJZ
CHECKED	JDZ

TITLE
VENTILATION

SHEET NO.
H5.1

ELECTRICAL SPECIFICATIONS

Z. LABEL ALL NORMAL POWER PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH. EMERGENCY POWERED ITEMS SHALL BE MARKED THE SAME WAY BUT SHALL BE WITH RED BACKGROUND AND WHITE LETTERS.

AA. LABEL ALL NORMAL POWER DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED. EMERGENCY POWERED ITEMS SHALL BE MARKED THE SAME WAY BUT SHALL BE WITH RED BACKGROUND AND WHITE LETTERS.

AB. ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. COORDINATE LOCATIONS AND TYPE/SIZE WITH THE SYSTEMS VENDOR FOR OPTIMUM CABLE ROUTING.

AC. DISCONNECT SWITCHES SHALL BE HEAVY DUTY; FUSIBLE TYPE TO UTILIZE 'RK1' FUSES.

AD. LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE BY HUBBELL, LEVITON, COOPER CONTROLS OR SENSOR SWITCH. CEILING MOUNTED SENSORS SHALL BE LOW PROFILE, "DOME" TYPE SENSORS.

AE. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT – 600 VOLTS NOMINAL OR LESS.FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL – 110.32 WORK SPACE ABOUT EQUIPMENT – 110.33 ENTRANCE AND ACCESS TO WORK SPACE – 110.34 WORK SPACE AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION.

AF. EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE REMOVED BACK TO SOURCE. REMOVE ALL UNUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK. DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.

AG. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.

AH. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

ELECTRICAL INDEX OF DRAWINGS

ELECTRICAL SPECIFICATIONS

A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2023 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.

B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE. PANELBOARDS, CIRCUIT BREAKERS AND DISCONNECTS BY SQUARE D, SIEMENS, CUTLER-HAMMER OR G.E

C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.

D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.

E. STAGGER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN ON OPPOSITE SIDES OF STUD WALL PARTITIONS TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS.

F. DRAWINGS ARE SCHEMATIC IN NATURE TO REPRESENT REQUIRED EQUIPMENT/DEVICES AND ASSOCIATED POWER/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR DEVICE LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL LOCATIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE ALARM AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK, FIXED FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING OBSTRUCTIONS. RECEPTACLES ASSOCIATED WITH/ADJACENT TO TECHNOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME MOUNTING HEIGHT AND WITHIN 6" HORIZONTALLY UNLESS SPECIFICALLY NOTED OTHERWISE.

G. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUIT(S), DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.

H. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THHN/THWN STRANDED CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.

I. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE AND FOR 277 VOLT CIRCUITS SHALL BE GRAY COLOR.

J. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR FINAL CONNECTION TO INDOOR LIGHT FIXTURES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.

K. EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.

L. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED TYPE WITH THREADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.

M. BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.

N. ALL EMPTY CONDUITS SHALL HAVE A NYLON PULLSTRING INSTALLED PER SPECIFICATIONS.

O. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR, WITH BRUSHED STAINLESS STEEL COVERPLATES, HUBBELL, P&S, COOPER OR LEVITON. PROVIDE TAMPER-RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.

P. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.

Q. IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.

R. PROVIDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD AND ROOM DESCRIPTION WITH ROOM NUMBER AND TYPE. UPDATE ALL EXISTING PANEL DIRECTORIES WITH NEW TYPED DIRECTORY CARDS WITH ALL CIRCUIT REVISIONS NOTED.

S. ALL SPARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.

T. THE TOTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT BREAKER FOR THAT CIRCUIT.

U. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.

V. THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.

W. IDENTIFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY NEATLY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS WITH INDELIBLE MARKER.

X. NEATLY LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.

Y. NEATLY LABEL PANEL AND BRANCH CIRCUIT NUMBERS ON EACH ACCESSIBLE OR EXPOSED CONDUIT ENTERING OR LEAVING ALL PULLBOXES AND JUNCTION BOXES WITH INDELIBLE MARKERS.

ELECTRICAL LEGEND

OS	OCCUPANCY SENSOR, CEILING MOUNTED.
OR	OCCUPANCY SENSOR CONTROL RELAY.
	DISCONNECT SWITCH (FUSIBLE)
	MOTOR STARTER OR VFD.
	COMBINATION MOTOR STARTER OR VFD AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
UH	UNIT HEATER.
FC	FAN COIL UNIT.
	CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
	CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
	POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.
EB	ELECTRIC BASEBOARD HEATER.
	NEW DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
	EXISTING DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED M.H.). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
AP	WIRELESS WIFI ACCESS POINT; CEILING MOUNTED.
F 15	FIRE ALARM HORN & SIGNAL LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
L 15	FIRE ALARM SIGNALING LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
F	FIRE ALARM SENDING STATION (46" M.H.).
S	CEILING MOUNTED SMOKE DETECTOR.
H	CEILING MOUNTED HEAT DETECTOR.
S SR	DUCT MOUNTED SMOKE DETECTOR (S/SUPPLY, R/RETURN).
D	ELECTRO-MAGNETIC DOOR HOLDER.
W	WATER FLOW SWITCH.
V	FIRE ALARM SUPERVISED VALVE.
T1	TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1
CR	DOOR ACCESS CONTROL SYSTEM CARD READER - 46" M.H.
C	CCTV CAMERA. ROUGH-IN BOX, 1" C. STUB
A	ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES SHALL BE FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS BY THE EQUIPMENT SUPPLIER (120 VOLT SINGLE PHASE OPERATION).
P	PUSHPLATE DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.).
	PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED ON PLAN).
B	4" DIAMETER BELL (90"M.H.).
SC	FLUSH MOUNTED CEILING SPEAKER.
S	TRUMPET TYPE SPEAKER (96" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR NEAREST CABLE TRAY.
	CEILING FAN FURNISHED AND INSTALLED BY H.C.; WIRED BY E.C.

ELECTRICAL LEGEND

	ELECTRICAL CONNECTION REQUIRED.
	EXIT LIGHTING FIXTURE. ARROWS AS INDICATED.
H1 B1 a b	LIGHTING FIXTURE: CAPITAL LETTER DENOTES FIXTURES TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
H1 B1	LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
A-1&2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
	WIRE & CONDUIT IN WALL OR ABOVE CEILING
	WIRE & CONDUIT UNDERGROUND
J	JUNCTION BOX.
	DASHED SYMBOL INDICATES THAT PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
E	EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" M.H.).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
U	20A-125V DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS (1 USB 'A'; 1 USB 'C' PORT), NEMA 5-20R (18" M.H.) USB TYPE A-C CHARGING PORTS WITH MINIMUM 5 AMPS COMBINED CHARGING POWER.
NL	15A-125V DUPLEX RECEPTACLE WITH INTEGRAL NIGHT LIGHT ACCESSORY, DEVICE SHALL HAVE LED NIGHT LIGHT IN FACE OF DEVICE WITH PHOTO-SENSOR CONTROL, NEMA 5-20R (18" M.H.).
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN
D	20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R. (18" M.H.) TWO-GANG ASSEMBLY. D = DOUBLE DUPLEX.
46" D	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.) UNLESS OTHERWISE INDICATED D = DOUBLE DUPLEX.
GF	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
WP/GF	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH HUBBELL #WP26M CAST ALUMINUM "WHILE-IN-USE" COVER.
20	20A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R, (18" M.H.).
30	30A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
50	50A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" M.H.)
	SINGLE POLE WALL SWITCH (46" M.H.)
2	TWO POLE WALL SWITCH (46" M.H.).
3	THREE-WAY WALL SWITCH (46" M.H.).
4	FOUR-WAY WALL SWITCH (46" M.H.).
OS	LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
D	LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
3D	LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND 3-WAY POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
VS	LIGHTING VACANCY SENSOR WALL SWITCH WITH MANUAL 'ON' PUSHBUTTON AND DUAL TECHNOLOGY MOTION SENSOR TO AUTOMATICALLY TURN 'OFF' WHEN ROOM UNOCCUPIED (46" M.H.).
DV	0-10V LED COMBINATION VACANCY SENSOR AND DIMMER SWITCH WITH PRESET SLIDE CONTROL AND SEPARATE ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED, RATED MIN. 800 WATTS.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B E2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET E2.
A E1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET E1.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
	2 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
	3 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

GENERAL NOTES

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.

B. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.

C. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.

D. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.

E. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.

F. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.

G. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

H. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.

I. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC.

J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK.

K. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.

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STATE OF OHIO
JEFFREY D. ZELINSKI 63822
REGISTERED PROFESSIONAL ENGINEER
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EXPIRATION DATE 12/31/2025

CITY OF DAYTON
DAYTON FIRE DEPARTMENT STATION 15
2801 Wayne Ave, Dayton, Ohio, 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION

DATE	06/09/25
JOB NO.	4284.00
DRAWN	AP
CHECKED	TR

TITLE
LEGEND

SHEET NO.
E0.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

7/31/2025 11:06:52 AM

SUSPENDED OVERHEAD CIRCULATION FANS

FAN NUMBER	CIRCUIT NUMBER	NAMEPLATE	HP (KVA OR FLA)	120V-1PH	208V-3PH	208V-1PH	480V-1PH	480V-3PH	LOCATION	DISCONNECT MEANS TYPE: DISC. SWITCH	TOGGLE SWITCH	BREAKER	LOCATION: NEAR MOTOR	CONTROLLER	SEE NOTES	FURNISHED BY	CONTROL: FAN CONTROL PANEL	INDIVIDUAL SPEED CONT. / OFF	GROUP SPEED CONTROLLER / OFF	KEEP SPACE FOR FUTURE	SEE NOTES	FEEDER: NO. OF CONDUCTORS	WIRE SIZE	GRD. SIZE	CONDUIT SIZE	SEE NOTE
CF1		CIRCULATION FAN 1	0.1 KVA	•					APP BAYS	•						EC			•			2	12	12	.5	1
CF2		CIRCULATION FAN 2	0.1 KVA	•					DORM ROOMS	•						EC		•				2	12	12	.5	2

Notes:
1. 56" DIAMETER SUSPENDED INDUSTRIAL TYPE FAN WITH GROUP CONTROL.
2. 36" DIAMETER (CEILING HUGGER) CONTEMPORARY STYLE FAN WHITE FINISH.

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LUMINAIRE TYPE: LED			LOW VOLTAGE	WATTS/ FIXTURE	LUMENS/ COLOR TEMP	FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR: WHITE	BLACK	ALUMINUM	BRONZE	STANDARD	SEE NOTES	MOUNTED: S - SURFACE. R - RECESSED. SM - STEM MTD. WM - WALL MTD. C - CHAIN MTD. UC - UNDER CAB. CS - CLG. SURF.	SIZE: WIDTH	LENGTH	DEPTH	DIAMETER	SEE NOTES
B1	•				30	3600 LUMENS/ 4000K	120	LITHONIA# CPX 2X2 AL07 SWW M4	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•						R	24	24	2		
B2	•				30	3600 LUMANS/ 4000K	120	LITHONIA# CPX 2X2 AL07 SWW M4	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•						S	24	24	2		3
C1	•				40	5000 LUMENS/ 4000K	120	LITHONIA# CLX L48 5000LUM SEF FDL MVOLT G210 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•						WM/S/SM	3	48	3		
C2	•				80	10000 LUMENS/ 4000K	120	LITHONIA# CLX L96 10000LUM SEF FDL MVOLT G210 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•							3	96	3		
D1	•				30	2500 LUMENS/ 4000K	120	FINELITE# S17-LED-ACF-PF-4'-H-840-120V-SC	PRUDENTIAL, UTOPIA	ANGLED WHITE PERF DIFFUSER	•						WM (6'-0" A.F.F)	5	48	4		
D2	•				10	1300 LUMENS/ 3000K	120	LITHONIA# FMVTSL-24IN-MVOLT-30K-90CRI-BN-M4	COLUMBIA, DAYBRITE	SQUARE WHITE LENS	•						WM (7'-0" A.F.F)	6	24	4		
F1	•				13	1100 LUMENS/ 3000K	120	WF6 REG SWW5 90CRI MW M6	GREEN CREATIVE, LITEOLIER	FLAT WHITE LENS	•						R			1.5	6	1
F2	•				13	1100 LUMENS/ 4000K	120	WF6 REG SWW5 90CRI MW M6	GREEN CREATIVE, LITEOLIER	REGRESSED BAFFLE LED	•						R			1.5	6	
F3	•				13	1100 LUMENS/ 4000K	120	WF6 REG SWW5 90CRI MW M6	PRESCOLITE, LITEOLIER	FLAT WHITE LENS	•						R			1.5	6	
F4	•				16	1050 LUMENS/ 3000K	120	JSBT 6IN SWW2 90CRI PIR MW M6	PRESCOLITE, LITEOLIER	FLAT WHITE LENS	•						R			1.5	8	
L1	•				20	4000K	120	ACOLYTE RB 90 AC12065 4.040	APPROVED EQUAL	TAPE LIGHT	•						COVE	.5	60	.5		
UC1	•				10	500 LUMENS/ 4000K	120	LITHONIA# UPLD-18IN-30K-90CRI-SWR-WH	CONTECH, LAMAR	MATTE WHITE LENS	•					2	UC (OF SHELF)	18				2
X1	•				5		120	LITHONIA# LHQM-LED-R-HO-M6	COMPASS, CHLORIDE	LED EMERGENCY/EXIT RED LETTERS ON WHITE W/EM HEADS	•						WM					
X2	•				5		120	LITHONIA# LHQM-LED-R-HO-M6	COMPASS, CHLORIDE	LED EMERGENCY/EXIT RED LETTERS ON WHITE W/EM HEADS	•						CLG					
REM	•						120	LITHONIA# ERE-GY-T-RD-WP	COMPASS, CHLORIDE	LED REMOTE LAMP HEADS - 2 HEAD - ROUND					•		WM OR CLG SURFACE TO CANOPY				4	

NOTES:
1. SWITCHABLE COLOR TEMPERATURE.
2. INTEGRAL ROCKER SWITCH (HARD WIRED CONNECTION).
3. PROVIDE SURFACE MOUNTING KIT.

MOTORS, STARTERS, DISCONNECTS & CONTROLS

MOTOR NUMBER	CIRCUIT NUMBER	NAMEPLATE	HP (KVA OR FLA)	120V-1PH	208V-3PH	208V-1PH	480V-1PH	480V-3PH	LOCATION	STARTERS: NEMA SIZE	TYPE: MANUAL	MAGNETIC	BUILT-IN MOTOR 0/L	VFD	ECM*	LOCATION: NEAR MOTOR	MOTOR CONT. CNTR	EQUIP. CONT. PANEL	ROOM NUMBER	SEE NOTE	FURNISHED BY	DISCONNECT MEANS TYPE: DISC. SWITCH	MANUAL STARTER	RECEPTACLE	BREAKER	FUSIBLE	LOCATION: NEAR MOTOR	MOTOR. CONT. PANEL	EQUIP. CONT. PANEL	PANELBOARD	SEE NOTE	FURNISHED BY	CONTROL: INTERLOCK W/ DAMPER BY E.C.	MANUAL AT STARTER	INTEGRAL W/ EQUIP.	BY H.C.	SEE NOTE	FEEDER: NO. OF CONDUCTORS	WIRE SIZE	GRD. SIZE	CONDUIT SIZE	SEE NOTE
RTU-1		ROOFTOP UNIT 1	37 MCA / 50 MOCP		•				ROOF													•				•	•					HC				•		3	6	10	1	3
RTU-2		ROOFTOP UNIT 2	37 MCA / 50 MOCP		•				ROOF													•				•	•					HC				•		3	6	10	1	3
CD-1		CONDENSING UNIT 1	17 MCA / 27 MOCP			•			EXTERIOR WALL													•					•					EC						2	10	10	.5	
FC-1		FAN COIL 1				•			FITNESS													•					•					EC						2	12	12	.5	2
CD-2		CONDENSING UNIT 2	11 MCA / 28 MOCP			•			EXTERIOR WALL													•					•					EC						2	10	10	.5	
FC-2		FAN COIL 2				•			DECON													•					•					EC						2	12	12	.5	2
CD-3		CONDENSING UNIT 3	11 MCA / 28 MOCP			•			ROOF													•					•					EC						2	10	10	.5	
FC-3		FAN COIL 3				•			TOWER													•					•					EC						2	12	12	.5	2
EF-1		EXIST EF-1																																								1
EF-2		EXIST EF-2																																								1
EF-3		NEW EXH. FAN 3	1/10 HP	•					ROOF						•						HC	•										HC	•			•		2	12	12	.5	
EF-4		NEW EXH. FAN 4	2 HP		•				FITNESS						•						HC	•										HC	•			•		3	12	12	.5	
EF-5		NEW EXH. FAN 5	1/6 HP	•					DECON						•						HC	•										HC	•			•		2	12	12	.5	
RH-1		RAD HTR 1	5 AMPS	•					APP BAY													•					•					EC				•		2	12	12	.5	
RH-2		RAD HTR 2	5 AMPS	•					APP BAY													•					•					EC				•		2	12	12	.5	
RH-3		RAD HTR 3	5 AMPS	•					APP BAY													•					•					EC				•		2	12	12	.5	
RH-4		RAD HTR 4	5 AMPS	•					APP BAY													•					•					EC				•		2	12	12	.5	
GUH-1		GAS UNIT HTR	7 AMPS	•					APP BAY													•					•					HC				•		2	12	12	.5	
WH1		WATER HEATER	1 AMP	•								•									EC						•					EC				•		2	12	12	.5	
RCP1		REG RC PUMP	1 AMP	•								•									EC						•					EC				•		2	12	12	.5	

* REFER TO ECM CONTROL DIAGRAM(S) ON HVAC DRAWINGS, WHEN NOTED, FOR INTERLOCK WIRING AND AUX POWER REQUIREMENTS.

NOTES:
1. RE-FEED EXISTING EQUIPMENT FROM NEW PANEL.
2. INDOOR FAN COIL UNIT POWERED FROM OUTDOOR CONDENSING UNIT. PROVIDE TOGGLE TYPE DISCONNECT AT UNIT.
3. PROVIDE 60A FEED TO FUSED DISCONNECT AT UNIT.

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STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

CITY OF DAYTON
DAYTON FIRE DEPARTMENT STATION 15
2801 Wayne Ave, Dayton, Ohio, 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION

DATE	06/09/25
JOB NO.	4284.00
DRAWN	AP
CHECKED	TR

TITLE
SCHEDULES

SHEET NO.
E0.2

Branch Panel: A

Construction: New

System: Normal Power

LOCATION: MECH. 111
SUPPLY FROM: MDP
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Surface
ENCLOSURE: Type 1
MCB RATING: 1 A

A.I.C RATING
MAINS TYPE: M.L.O
MAINS RATING: 200 A

CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	DORM 124/125	20 A	1	1	1440 VA	0 VA						1	20 A	EX LIGHTS	2
3	DORM 122/123	20 A	1	1			1440 VA	0 VA				1	20 A	EX TRFC SIGN	4
5	DORM 120/121	20 A	1	1					1440 VA	0 VA		1	20 A	EX LIGHTS	6
7	EX REC	20 A	1		0 VA	0 VA						1	20 A	EX LIGHTS	8
9	EX REC TLT	20 A	1				0 VA	0 VA				1	20 A	EX LIGHTS	10
11	EX LIGHTS	20 A	1						0 VA	0 VA		1	20 A	EX LIGHTS	12
13	EX WTR CLR	20 A	1		0 VA	0 VA						1	20 A	EX LIGHTS	14
15	EX KIT REC	20 A	1				0 VA	0 VA				1	20 A	EX REC	16
17	EX REFRIG	20 A	1	2					0 VA	0 VA		1	20 A	EX REC	18
19	EX DISPS REC	20 A	1		0 VA	0 VA						1	20 A	EX LIGHTS	20
21	EX KIT REC	20 A	1				0 VA	0 VA				1	20 A	EX LIGHTS	22
23	EX REC	20 A	1						0 VA	0 VA		1	20 A	EX LIGHTS	24
25	EX REC	20 A	1		0 VA	0 VA						1	20 A	EX REC	26
27	EX REC	20 A	1				0 VA	0 VA				1	20 A	EX REC	28
29	HALL 113/TLTS	20 A	1						1080 VA	0 VA		1	20 A	EX LIGHTS	30
31	EX MED CGR	20 A	1		0 VA	0 VA						1	20 A	UNKNOWN	32
33	116 WASHER	20 A	1				180 VA	0 VA				1	20 A	SOUTH	34
35	116 DRYER	30 A	2						2496 VA	0 VA		1	20 A	EX TP LT PNL	36
37	--	--	--		2496 VA	0 VA						1	20 A	EX CAD	38
39	Spare	20 A	1				0 VA	0 VA				1	20 A	UNKNOWN	40
41	Spare	20 A	1						0 VA	0 VA		1	20 A	UNKNOWN	42
43	DORM RM LTS	20 A	1		416 VA	429 VA						1	20 A	113/115/116 LT	44
45	Spare	20 A	1				0 VA	180 VA				1	20 A	BASEMT REC	46
47	2ND FLR REC	20 A	1						540 VA	180 VA		1	20 A	3RD FLR REC	48
49	FC-3	15 A	2		500 VA	500 VA						2	15 A	CD-3	50
51	--	--	--				500 VA	500 VA				--	--	--	52
53	HALL 119 REC	20 A	1						900 VA	0 VA		2	15 A	Spare	54
55	Spare	20 A	2		0 VA	0 VA						--	--	--	56
57	--	--	--				0 VA	0 VA				2	30 A	Spare	58
59	Spare	20 A	1						0 VA	0 VA		--	--	--	60
61	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	62
63	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	64
65	Space	--	1						--	--		1	--	Space	66
67	Space	--	1		--	--						1	--	Space	68
69	Space	--	1				--	--				1	--	Space	70
71	Space	--	1						--	--		1	--	Space	72
		Total Load:			5745 VA		2500 VA		6636 VA						

NOTES:
1: AFCI BREAKER
2: GFCI BREAKER

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	842 VA	125.00%	1053 VA		
Motor	2000 VA	112.50%	2250 VA	**Total Conn. Load:**	15175 VA
Receptacles	12372 VA	90.41%	11186 VA	**Total Est. Demand:**	14441 VA
				Total Conn. Current:	42 A
				Total Est. Demand Current:	40 A

Branch Panel: B

Construction: New

System: Normal Power

LOCATION: MECH. 111
SUPPLY FROM: MDP
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Surface
ENCLOSURE: Type 1
MCB RATING: 1 A

A.I.C RATING
MAINS TYPE: M.L.O
MAINS RATING: 200 A

CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	RTU-1	60 A	3		333 VA	0 VA						1	20 A	P20 PUMP	2
3	--	--	--				333 VA	0 VA				1	20 A	EX FAN	4
5	--	--	--						333 VA	0 VA		1	20 A	EX FAN	6
7	EX FAN	30 A	3		0 VA	0 VA						1	20 A	UNKNOWN	8
9	--	--	--				0 VA	0 VA				1	20 A	UNKNOWN	10
11	--	--	--						0 VA	0 VA		1	20 A	M9 EX FAN 1	12
13	M6 PUMP	20 A	3		0 VA	0 VA						1	20 A	M10 EX FAN 2	14
15	--	--	--				0 VA	0 VA				2	20 A	P23 AIR COMP	16
17	--	--	--						0 VA	0 VA		--	--	--	18
19	WASH/DRYER	30 A	2		0 VA	0 VA						1	20 A	BASE B HEAT	20
21	--	--	--				0 VA	0 VA				1	20 A	BASE B HEAT	22
23	FRIDGE	30 A	2	1					0 VA	0 VA	1	1	20 A	Z3 FRIDGE	24
25	--	--	--		0 VA	0 VA						1	20 A	UNKNOWN	26
27	FRONT DOOR	20 A	3				0 VA	0 VA				3	30 A	AIR COMP	28
29	--	--	--						0 VA	0 VA		--	--	--	30
31	--	--	--		0 VA	0 VA						--	--	--	32
33	REAR DOOR	20 A	3				0 VA	0 VA				2	20 A	FUEL PUMP	34
35	--	--	--						0 VA	0 VA		--	--	--	36
37	--	--	--		0 VA	0 VA						2	20 A	GAS PUMP	38
39	EX EXIT LTS	20 A	1				0 VA	0 VA				--	--	--	40
41	CAD	20 A	1						0 VA	0 VA		1	20 A	EX LIGHTS	42
43	EX LIGHTS	20 A	1		0 VA	0 VA						1	20 A	EX REC	44
45	EX EM LIGHTS	20 A	1				0 VA	0 VA				1	20 A	EX LIGHTS	46
47	FIRE ALARM	20 A	1						0 VA	0 VA		1	20 A	PHONE	48
49	FIRE ALARM	20 A	1		0 VA	333 VA						3	60 A	RTU-2	50
51	EX REC BOIL	20 A	1				0 VA	333 VA				--	--	--	52
53	EF-3	20 A	1						1000 VA	333 VA		--	--	--	54
		Total Load:			667 VA		667 VA		1667 VA						

NOTES:
1: GFCI BREAKER

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Power	3000 VA	100.00%	3000 VA		
				Total Conn. Load:	3000 VA
				Total Est. Demand:	3000 VA
				Total Conn. Current:	8 A
				Total Est. Demand Current:	8 A

Branch Panel: C

Construction: New

System: Normal Power

LOCATION: DECON 126
SUPPLY FROM: MDP
VOLTAGE: 120/208 Wye-3-4

MOUNTING: Surface
ENCLOSURE: Type 1
MCB RATING: 1 A

A.I.C RATING
MAINS TYPE: M.L.O
MAINS RATING: 200 A

CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	DECON DRY	30 A	2		2496 VA	2200 VA						1	20 A	BAY RAD HTR	2
3	--	--	--				2496 VA	2200 VA				1	20 A	BAY RAD HTR	4
5	BAY FANS	20 A	1						1000 VA	410 VA		1	20 A	126/127 LTS	6
7	PORT CONN	30 A	1		0 VA	1000 VA						1	20 A	BAT CGR	8
9	BLOCK HTR	20 A	1				1000 VA	180 VA				1	20 A	FITNESS REC	10
11	FITNESS REC	20 A	1						180 VA	900 VA		1	20 A	FITNESS REC	12
13	TOG DC	60 A	3		0 VA	0 VA						3	60 A	TOG DC	14
15	--	--	--				0 VA	0 VA				--	--	--	16
17	--	--	--						0 VA	0 VA		--	--	--	18
19	GEAR DRYER	20 A	1		180 VA	540 VA						1	20 A	DECON REC	20
21	CO/NOX	20 A	1				180 VA	333 VA				3	20 A	EF-4	22
23	GUH-1	20 A	1						1000 VA	333 VA		--	--	--	24
25	EF-5	20 A	1		1000 VA	333 VA						--	--	--	26
27	FC-1	15 A	2				500 VA	500 VA				2	15 A	CD-1	28
29	--	--	--						500 VA	500 VA		--	--	--	30
31	FC-2	15 A	2		500 VA	500 VA						2	15 A	CD-2	32
33	--	--	--				500 VA	500 VA				--	--	--	34
35	WP/GF REC	20 A	1						360 VA	0 VA		1	20 A	Spare	36
37	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	38
39	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	40
41	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	42
		Total Load:			6745 VA		6389 VA		5183 VA						

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	410 VA	125.00%	513 VA		
Motor	11000 VA	102.27%	11250 VA	**Total Conn. Load:**	22322 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	22675 VA
Power	3400 VA	100.00%	3400 VA	**Total Conn. Current:**	62 A
Receptacles	7512 VA	100.00%	7512 VA	**Total Est. Demand Current:**	63 A

Switchboard: MDP

Location: MECH. 111
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: M.L.O
Mains Rating: 400 A
MCB Rating: 1 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Wire Size	Feed	Cond. Size
1	SPD	3	30 A	30 A	0 VA	--		
2	PANEL 'A'	3	200 A	200 A	15175 VA	4-#3/0, #6 GRD.		
3	PANEL 'B'	3	200 A	200 A	3000 VA	3-4-#3/0, #6 GRD.6		
4	PANEL 'C'	3	200 A	200 A	22322 VA	4-#3/0, #6 GRD.		
5	RTU-1	3	60 A	60 A	10000 VA	3-#6, #10 GRD.		
6	RTU-2	3	60 A	60 A	10000 VA	3-#6, #10 GRD.		
7	Spare	3	100 A	100 A	0 VA	--		
8								
9								
10								
			Total Conn. Load:		60496 VA			
			Total Amps:		168 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1239 VA	125.00%	1548 VA		
Motor	13000 VA	101.92%	13250 VA	**Total Conn. Load:**	60496 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	56107 VA
Power	6400 VA	100.00%	6400 VA	**Total Conn. Current:**	168 A
Receptacles	19884 VA	75.15%	14942 VA	**Total Est. Demand...**	156 A
Spare	20000 VA	100.00%	20000 VA		

Notes:

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JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

CITY OF DAYTON
DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, Ohio, 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION
1	10/08/25	ADDENDUM 2

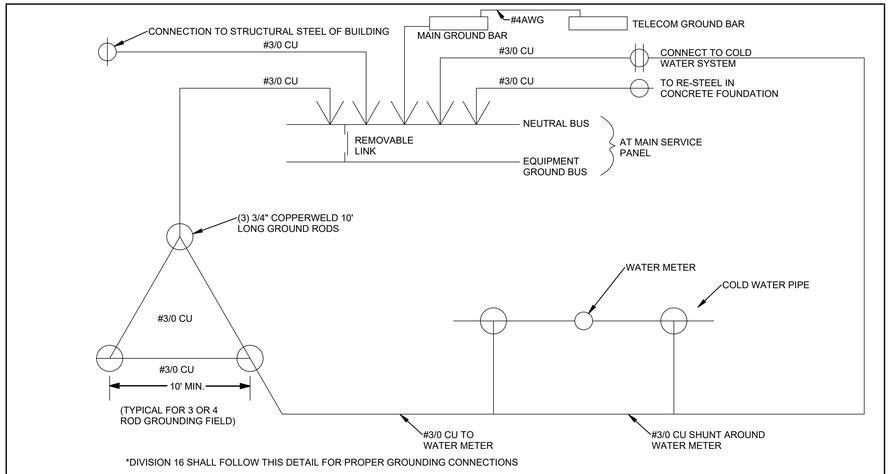
DATE	06/09/25
JOB NO.	4284.00
DRAWN	AP
CHECKED	TR

TITLE
PANEL SCHEDULES

SHEET NO.
E0.3

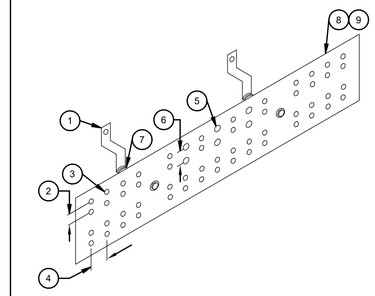
NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

10/8/2025 2:53:28 PM



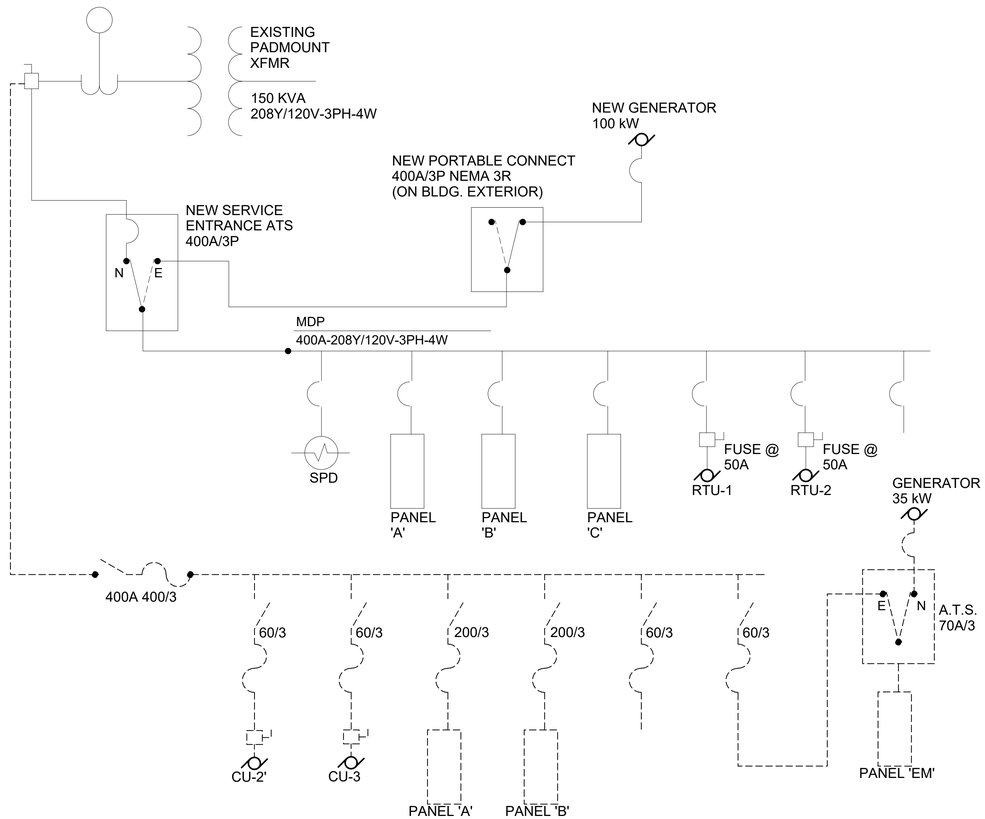
*DIVISION 16 SHALL FOLLOW THIS DETAIL FOR PROPER GROUNDING CONNECTIONS

3 GROUNDING DETAIL
N.T.S.

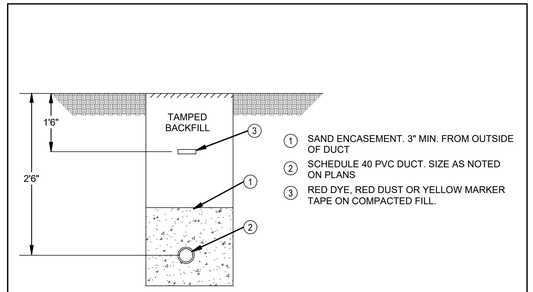


1. WALL MOUNTING BRACKET(S).
2. 5/8" (TYPICAL).
3. 5/16" DIA. HOLE (TYPICAL).
4. 1-1/8" (TYPICAL).
5. 7/16" DIA. HOLE (TYPICAL).
6. 1" (TYPICAL).
7. STANDOFF INSULATOR(S).
8. 1/4"x4"x16"L COPPER GROUND BAR. (MAINS GROUND BAR)
9. 1/4"x2"x12" COPPER GROUND BAR (TELECOM GROUND BAR)

2 GROUND BAR BRACKET
N.T.S.

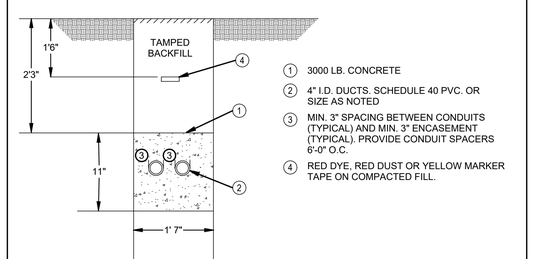


SINGLE LINE DIAGRAM
N.T.S.



1. SAND ENCASEMENT. 3" MIN. FROM OUTSIDE OF DUCT
2. SCHEDULE 40 PVC DUCT. SIZE AS NOTED ON PLANS
3. RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

5 DIRECT BURIAL UNDERGROUND DUCTS
N.T.S.



1. 3000 LB. CONCRETE
2. 4" I.D. DUCTS. SCHEDULE 40 PVC. OR SIZE AS NOTED
3. MIN. 3" SPACING BETWEEN CONDUITS (TYPICAL) AND MIN. 3" ENCASEMENT (TYPICAL). PROVIDE CONDUIT SPACERS 6'-0" O.C.
4. RED DYE, RED DUST OR YELLOW MARKER TAPE ON COMPACTED FILL.

3 UNDERGROUND DUCTS
N.T.S.

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TITLE
DETAILS

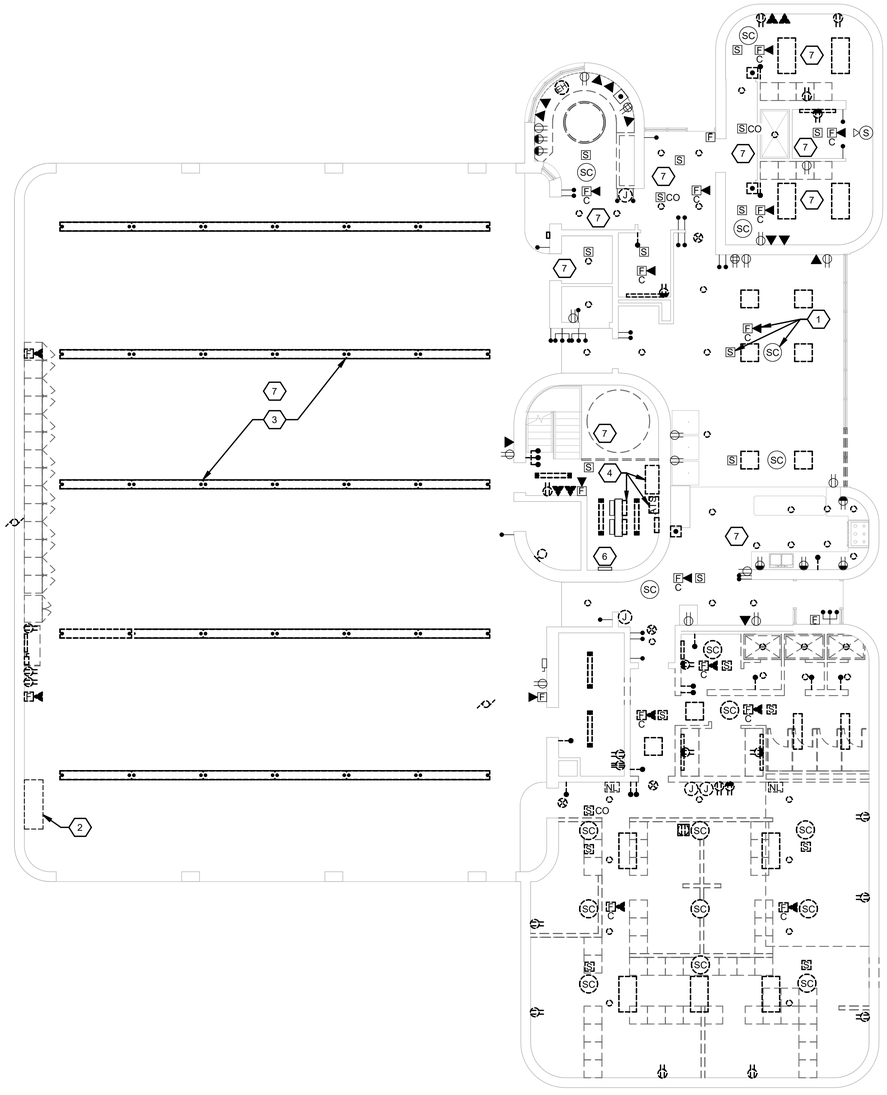
SHEET NO.
E0.4

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

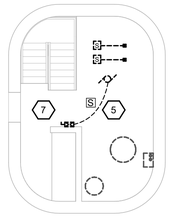
7/31/2025 11:06:56 AM

DEMOLITION NOTES

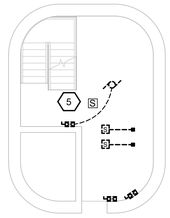
1. EXISTING CEILING SYSTEMS DEVICES TEMPORARILY REMOVED, REPLACED IN NEW CEILING.
2. REMOVE EXISTING STANDBY GENERATOR AND ACCESSORY CIRCUITS, FEEDER, ETC.
3. REMOVE EXISTING BAY LIGHTS FOR REPLACEMENT WITH NEW. MAINTAIN CIRCUITRY, SWITCHING, ETC.
4. REMOVE EXISTING MAIN SERVICE PANEL, ATS AND PANELBOARDS FOR REPLACEMENT WITH NEW SERVICE ENTRANCE ATS AND DISTRIBUTION PANEL. MAINTAIN EXISTING BRANCH CIRCUITRY TO REMAIN.
5. DISCONNECT AND REMOVE ALL POWER TO HVAC AND PLUMBING SYSTEMS IN STAIR TOWER. REMOVE FIRE ALARM DUCT DETECTORS.
6. EXISTING FIRE ALARM PANEL/SYSTEM TO REMAIN.
7. EXISTING FIRE ALARM/FIRE CALL DEVICES TO REMAIN.



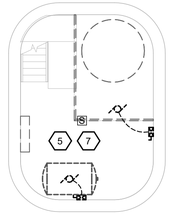
FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



STAIR TOWER 3RD LEVEL
SCALE: 1/8" = 1'-0"



STAIR TOWER 2ND LEVEL
SCALE: 1/8" = 1'-0"



STAIR TOWER BASEMENT
SCALE: 1/8" = 1'-0"

0 4 8 16 24 32 40
SCALE: 1/8"=1'-0"

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JEFFREY D. ZELINSKI 63822
REGISTERED PROFESSIONAL ENGINEER
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821

CITY OF DAYTON
DAYTON FIRE DEPARTMENT
STATION 15
2801 Wayne Ave, Dayton, Ohio, 45420

ISSUE

NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION

DATE	06/09/25
JOB NO.	4284.00
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TITLE
DEMOLITION

SHEET NO.
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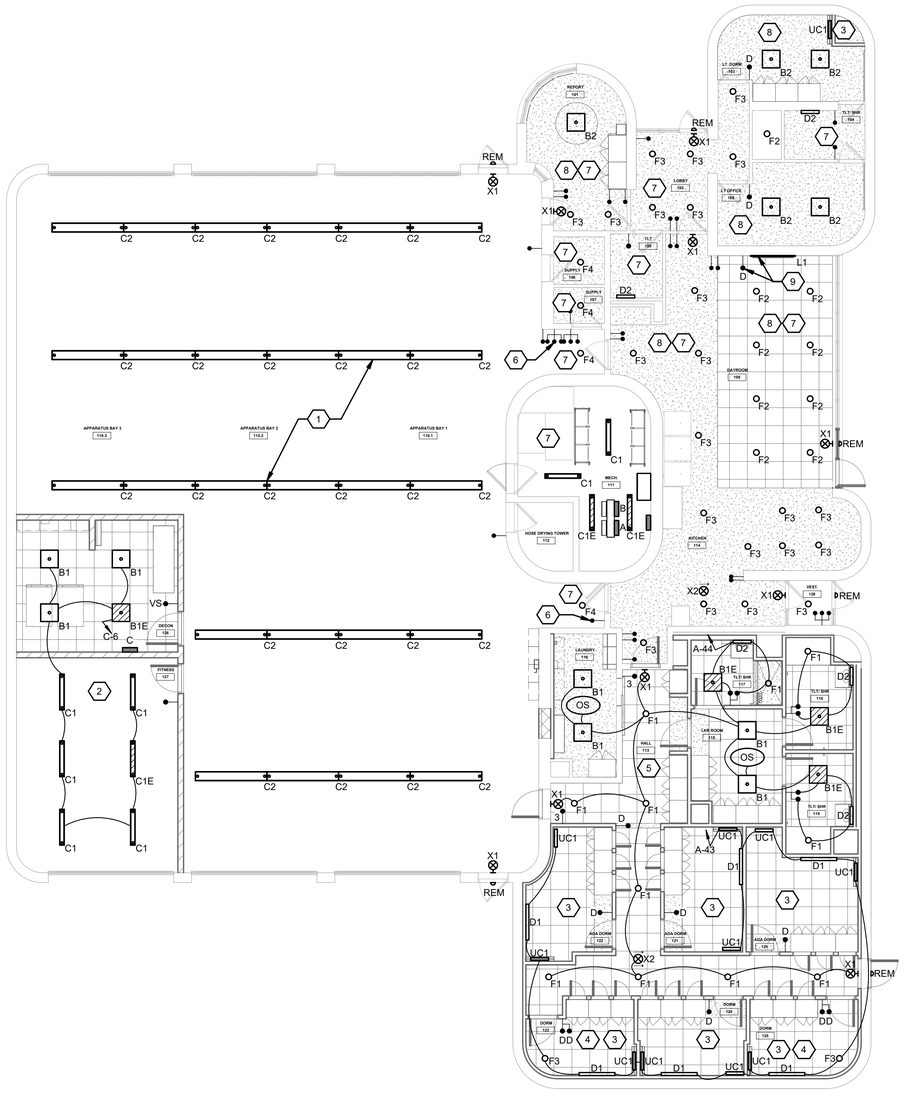
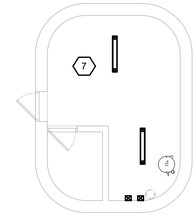


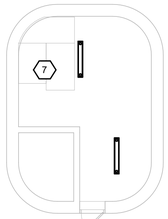
FIRST FLOOR NEW LIGHTING PLAN

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



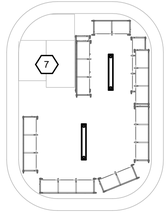
STAIR TOWER 3RD LEVEL

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



STAIR TOWER 2ND LEVEL

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



STAIR TOWER BASEMENT

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

CONSTRUCTION NOTES

1. PROVIDE NEW LIGHTING IN APP BAY. CONNECT TO EXISTING CIRCUITRY/CONTROLS.
2. OMIT LIGHTING IN THIS AREA OF APP BAY. COVER EXISTING JUNCTION BOXES.
3. CONNECT UNDERCABINET LIGHTS AHEAD OF LOCAL ROOM LIGHTING CONTROL (UNDERCABINET LIGHTS CONTROLLED BY INTEGRAL SWITCH). COORDINATE ROUGH-IN LOCATION FOR UNDERCABINET LIGHTS WITH CASEWORK/HEADBOARD/ SHELVES.
4. PROVIDE SEPARATE DIMMING CONTROL FOR DOWNLIGHT OVER WORK DESK.
5. PROVIDE THREE-WAY SWITCHING FOR DORM CORRIDOR AND SEPARATE DIMMING CONTROL AS SHOWN.
6. RETAIN EXISTING APP BAY LIGHTING CONTROLS.
7. CONNECT NEW LIGHTS TO EXISTING CIRCUITRY, RETAIN EXISTING CONTROLS.
8. CONNECT NEW LIGHTS TO EXISTING CIRCUITRY, PROVIDE NEW DIMMING CONTROL.
9. PROVIDE LINEAR TAPE LIGHT AT TOP OF TV DISPLAY CASE WORK, PROVIDE DIMMER FLUSH MOUNTED IN SIDE OF CASE WORK. CONNECT TO ROOM LIGHTING CIRCUIT.

0 4 8 16 24 32 40

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

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NEW LIGHTING PLAN

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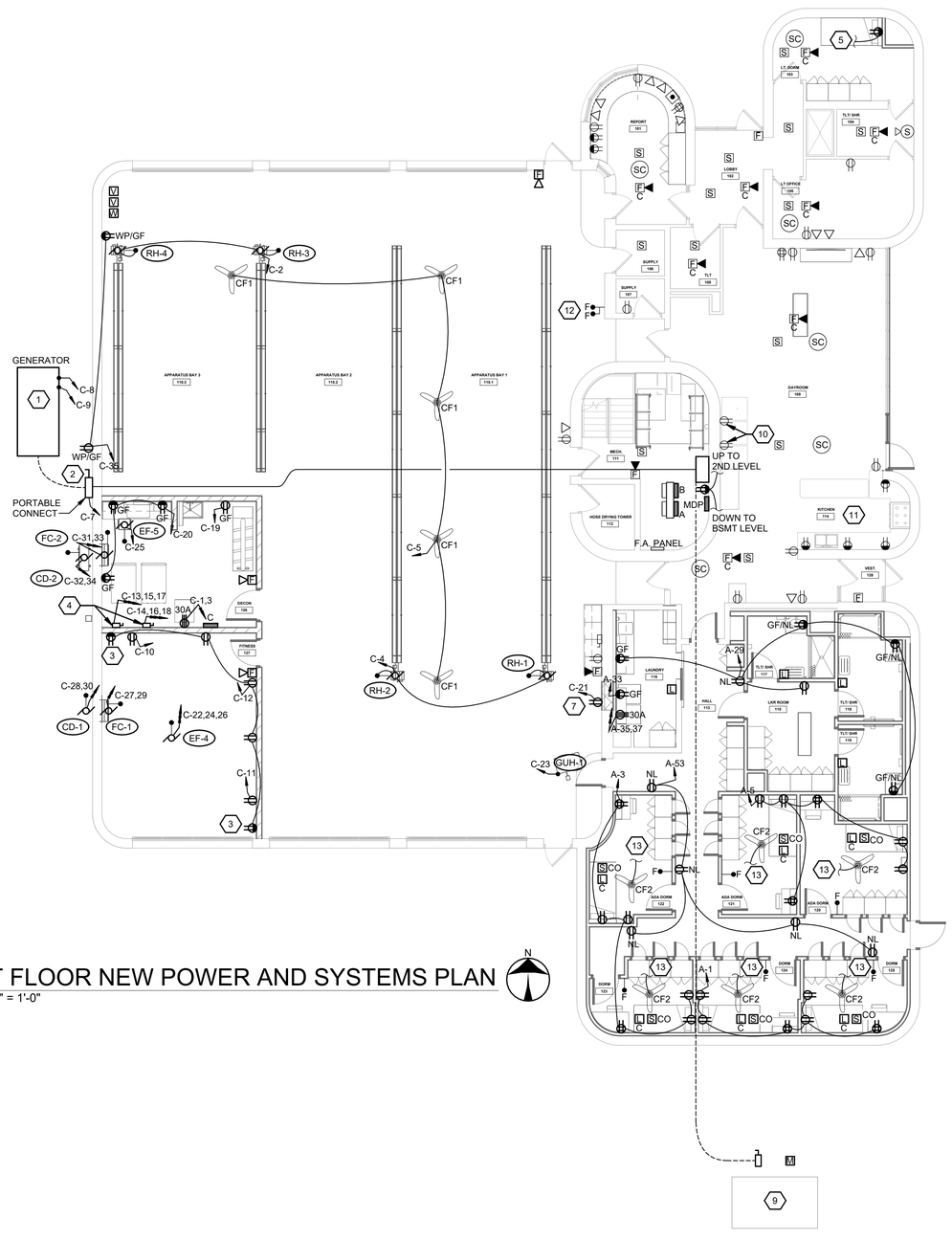
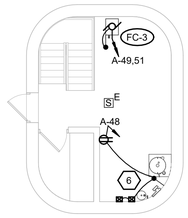


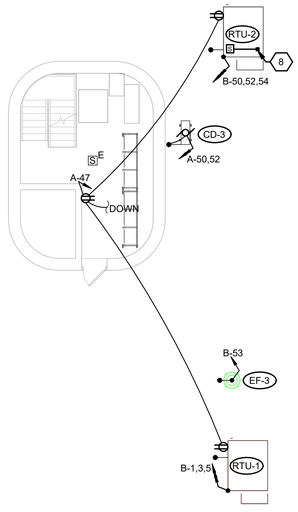
FIRST FLOOR NEW POWER AND SYSTEMS PLAN

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



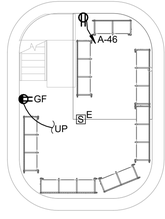
STAIR TOWER 3RD LEVEL

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



STAIR TOWER/ROOF 2ND LEVEL

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



STAIR TOWER BASEMENT

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

CONSTRUCTION NOTES

1. PROVIDE 20A-120V CIRCUITS FOR GENERATOR BATTERY CHARGER AND BLOCK HEATER CIRCUITS.
2. PROVIDE 20A-120V CIRCUIT FOR PORTABLE CONNECT ACCESSORY CIRCUIT.
3. RECEPTACLE AT 72" M.H. FOR CONNECTION OF WALL MOUNTED OSCILLATING FAN. PROVIDE FAN EQUAL TO GLOBAL INDUSTRIAL #607050, 24" DIA, 7500 CFM, 120V CORD AND PLUG CONNECTED WITH 3 SPEED/OFF PULLCHAIN CONTROL.
4. PROVIDE 30A-3POLE FUSE DISCONNECT FOR TOG WASHER. PROVIDE FUSING PER MANUFACTURER RECOMMENDATION.
5. CONNECT NEW RECEPTACLE TO EXISTING DORM ROOM CIRCUIT.
6. PROVIDE 120V CONNECTIONS TO HOT WATER SYSTEMS, COORDINATE CONNECTION REQUIREMENTS AND CONTROL WITH P.C. PROVIDE STARTER FOR CONTROL BY H.C.
7. PROVIDE 120V CIRCUIT TO CO/NOX CONTROL PANEL.
8. DUCT DETECTOR LOCATED ABOVE CEILING OF DAYROOM. COORDINATE INSTALLATION WITH H.C.
9. EXISTING PAD MOUNTED TRANSFORMER.
10. PROVIDE GROUND FAULT BREAKER FOR KITCHEN REFRIGERATOR CIRCUITS.
11. MAINTAIN EXISTING KITCHEN RECEPTACLE/HOOD CIRCUITS, ETC.
12. SURFACE MOUNTED FAN CONTROLLER FOR CEILING FANS. ONE CONTROLLER FOR NORTH FANS, ONE FOR SOUTH.
13. CONNECT CEILING FAN TO ROOM LIGHTING CIRCUIT AHEAD OF CONTROLS.

0 4 8 16 24 32 40

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

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