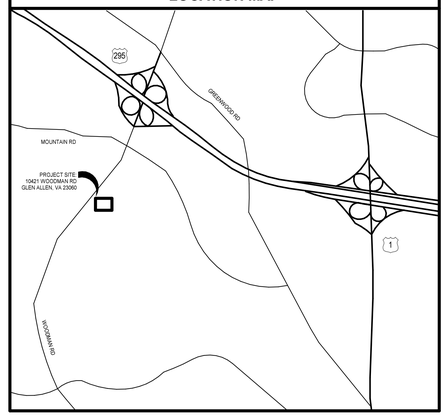
BID DOCUMENTS

HENRICO COUNTY ANIMAL SHELTER RENOVATION

HENRICO COUNTY
HENRICO, VIRGINIA

VICINITY MAP

LOCATION MAP



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THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

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HENRICO COUNTY ANIMAL SHELTER RENOVATION
10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

COVER

G0.1

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EXISTING BUILDING DATA

PRIMARY OCCUPANCY CLASSIFICATION & USE GROUP:	Business: B		
CONSTRUCTION TYPE:	V-B		
FULLY SPRINKLERED | TYPE:	YES	NFPA 13	
MIXED OCCUPANCY:	NO		
NON-SEPARATED MIXED USE:	NO	**DESIGN OCCUPANCY CLASSIFICATION:**	Business: B
SEPARATED MIXED USE:	NO		

OCCUPANCY SCHEDULE

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA SF	GROSS	NET	OCCUPANCY LOAD TABULAR	ACTUAL		DESIGN
101	FOYER	B	BUSINESS AREAS	150 SF	102	•		1	2	*	2
102	ENTRY	B	BUSINESS AREAS	150 SF	411	•		3	8	*	8
103	CAT ADOPTIONS	B	BUSINESS AREAS	150 SF	266	•		2	5	*	5
104	INTERVIEW	B	BUSINESS AREAS	150 SF	78	•		1	2	*	2
105	RECEPTION	B	BUSINESS AREAS	150 SF	182	•		2			2
106	ADULT DOG RUNS	B	BUSINESS AREAS	150 SF	2131	•		15			15
107	TOILET	B	TOILETS	0 SF	61	•					0
108	TOILET	B	TOILETS	0 SF	60	•					0
109	FOOD PREP/STORAGE	B	BUSINESS AREAS	150 SF	243	•		2	3	*	3
110	PUPPY RUNS	B	BUSINESS AREAS	150 SF	344	•		3	4	*	4
111	QUARANTINE	B	BUSINESS AREAS	150 SF	344	•		3			3
112	WARDENS	B	BUSINESS AREAS	150 SF	163	•		2	4		4
113	CAT ISOLATION	B	BUSINESS AREAS	150 SF	147	•		1	2	*	2
114	LAUNDRY	B	BUSINESS AREAS	150 SF	131	•		1	2	*	2
115	ISOLATION	B	BUSINESS AREAS	150 SF	337	•		3			3
116	CREMATORY	B	BUSINESS AREAS	150 SF	387	•		3	4	*	4
117	FERAL CATS	B	BUSINESS AREAS	150 SF	137	•		1	2	*	2
118	X-RAY	B	BUSINESS AREAS	150 SF	125	•		1	2	*	2
119	SALLYPORT	B	BUSINESS AREAS	150 SF	664	•		5			5
120	DATA CLOSET	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	54	•		1			1
120B	CORRIDOR	B	CIRCULATION	0 SF	61	•					0
121	VET	B	BUSINESS AREAS	150 SF	229	•		2			2
122	JANITOR CLOSET	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	97	•		1			1
123	LOCKER RM	B	LOCKER ROOM	50 SF	82	•		2			2
124	TOILET	B	TOILETS	0 SF	62	•					0
125	TOILET	B	TOILETS	0 SF	61	•					0
126	LOCKER RM	B	LOCKER ROOM	50 SF	81	•		2			2
127	BREAK ROOM	B	BUSINESS AREAS	150 SF	231	•		2	8	*	8
128	WORKSTATIONS	B	BUSINESS AREAS	150 SF	247	•		2			2
129	OFFICE	B	BUSINESS AREAS	150 SF	97	•		1	3		3
130	OFFICE	B	BUSINESS AREAS	150 SF	97	•		1	3		3
131	OFFICE	B	BUSINESS AREAS	150 SF	98	•		1	3		3
132	CORRIDOR	B	CIRCULATION	0 SF	205	•					0
133	CORRIDOR	B	CIRCULATION	0 SF	396	•					0
134	CORRIDOR	B	CIRCULATION	0 SF	87	•					0
135	CORRIDOR	B	CIRCULATION	0 SF	98	•					0
136	ELECTRICAL	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	59	•		1			1
137	OUTDOOR MECHANICAL	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	310	•		2			2
138	DOG WASHROOM	B	BUSINESS AREAS	150 SF	53	•		1			1
139	SURGICAL SUITE	B	BUSINESS AREAS	150 SF	84	•		1			1
											100

OCCUPANCIES DELINEATED WITH * HAVE OCCUPANCY LOAD MODIFICATIONS BASED ON RECORD DRAWINGS DATED MARCH 10, 2006.

N

LIFE SAFETY FLOOR PLAN

1/8" = 1'-0"

LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX

	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
4 HR FIRE				
3 HR FIRE				
2 HR FIRE	✖✖✖✖✖			
1 HR FIRE		▶▶▶▶▶		
½ HR FIRE				
SMOKE				
SMOKE-TIGHT				
INCIDENTAL				

SYMBOLS

- 1205 — ROOM NUMBER
- 798 | 1280 — DIRECTION OF EGRESS, EGRESS LOAD CAPACITY, NUMBER OF OCCUPANTS
- DIRECTION OF EGRESS, NUMBER OF OCCUPANTS, EGRESS LOAD CAPACITY — 798 | 1280
- 174'-9" TD — EXIT ACCESS TRAVEL DISTANCE
- 74'-9" CPOT — COMMON PATH OF TRAVEL
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER BRACKET
- EXTENT OF FLOOR / CEILING AND/OR ROOF / CEILING ASSEMBLY
- EXTENT OF LEVEL 2 ALTERATIONS

NOTES:

1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.

2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.

3. RATING OF BEARING OR NON-BEARING WALLS ARE PER TABLE 601 AND SECTION 602.1 AND DO NOT REQUIRE PROTECTED OPENINGS.

FIRE RATED ASSEMBLIES

REPRESENTED BY Xn

THE ASSEMBLIES REFERENCED ARE BASIS OF DESIGN; EQUIVALENT COMPATIBLE TESTED ASSEMBLIES WILL BE ACCEPTABLE IF APPROVED BY THE LAHJ

MARK	FIRE RATING	APPLIES TO	REFERENCE	REMARKS
X1	1 HR	PARTITION TYPE P6-1	1-HOUR UL DESIGN U419	
X2	1 HR	STAIR CEILING - HORIZONTAL SHAFT WALL SYSTEM	1-HOUR UL DESIGN U415	USE 2 1/2" CH STUDS
X3	1 HR	BEARING AND NON-BEARING MASONRY WALLS	VCC TABLE 721.1(2)	
X4	1 HR	PARTITION TYPE P7-1	1-HOUR UL DESIGN U415	

BUILDING DATA

APPLICABLE CODES, STANDARDS, AND/OR REFERENCES:
VIRGINIA CONSTRUCTION CODE (VCC) 2021
VIRGINIA EXISTING BUILDING CODE (VEBC) 2021
2017 - ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

LEVEL OF ALTERATIONS
LEVEL 1
LEVEL 2 (1,140 SF) - REFER TO FLOOR PLAN

FLOOR AREA
MAIN FLOOR 10,139 SF (INCLUDING SALLYPORT AND CREMATORY)
MECHANICAL EQUIPMENT LEVEL 503 SF

FIRE RESISTANCE RATING OF EXISTING BUILDING ELEMENTS

CONSTRUCTION TYPE	VB	
BUILDING ELEMENT	CODE REFERENCE	REQUIRED RATING
PRIMARY STRUCTURAL FRAME	Table 601	0 HRS
EXTERIOR BEARING WALLS	Table 601	0 HRS
INTERIOR BEARING WALLS	Table 601	0 HRS
EXTERIOR NONBEARING WALLS AND PARTITIONS	Table 602	0 HRS
INTERIOR NONBEARING WALLS AND PARTITIONS	Table 601	0 HRS
FLOOR CONSTRUCTION & SECONDARY MEMBERS	Table 601	0 HRS
ROOF CONSTRUCTION & SECONDARY MEMBERS	Table 601	0 HRS
SHAFT ENCLOSURES (Less than 4 stories)	713.4	1 HRS
EXIT ENCLOSURES (Less than 4 stories)	1023.2	1 HR
FIRE PARTITIONS	708.3	1 HR
SMOKE BARRIERS	709.3	1 HR
SMOKE PARTITIONS	710.3	0 HRS
CORRIDORS	Table 1020.2	0 HRS

VCC TABLE 721.1(2)

RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS

MATERIAL	ITEM NUMBER	CONSTRUCTION	4 HR	3 HR	2 HR	1 HR
3. CONCRETE MASONRY UNITS	3-1.1	EXPANDED SLAG OR PUMICE	4.7	4.0	3.2	2.1
	3-1.2	EXPANDED CLAY, SHALE OR SLATE	5.1	4.4	3.6	2.6 X3
	3-1.3	LIMESTONE, CINDERS OR AIR COOLED SLAG	5.9	5.0	4.0	2.7
	3-1.4	CALCAREOUS OR SILICEOUS GRAVEL	6.2	5.3	4.2	2.8

VCC TABLE 721.1(2)

12" = 1'-0"

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06/19/25
ARCHITECT

HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS

DATE	DESCRIPTION

LIFE SAFETY INFORMATION

LS1.1

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ARCHITECTURAL ABBREVIATIONS

A-PT	ACCENT PAINT
ABS	AIR BARRIER SYSTEM
ABV	ABOVE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ACW	ALUMINUM CLAD WINDOW
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ARCHITECTURAL PRECAST CONCRETE
ARC	ABUSE RESISTANT COATING
AS	ALUMINUM STOREFRONT
AUTO	AUTOMATIC
AVG	AVERAGE
AW	ALUMINUM WINDOW
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BF	BARRIER FREE (ADA or A117.1)
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BUR	BUILT-UP ROOF
C	CARPET
C-TILE	CARPET TILE
CAB	CABINET
CB	CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CFSF-NS	COLD FORMED STEEL FRAMING, NON-STRUCTURAL
CFSF-S	COLD FORMED STEEL FRAMING, STRUCTURAL
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CIPC	CAST IN PLACE CONCRETE
CJ	CONTROL JOINT
CL	CLOSET
CLG	CEILING
CLR	CLEAR
CM	CENTIMETER
CMBD	CEMENT BOARD
CMU	CONCRETE MASONRY UNIT
CMU-A	CONCRETE MASONRY UNIT - ACOUSTICAL
CMU-GF	CONCRETE MASONRY UNIT - GROUND FACE
CMU-GLZ	CONCRETE MASONRY UNIT - GLAZED
CMU-SPLF	CONCRETE MASONRY UNIT - SPLIT FACE
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONC-LH	CONCRETE WITH LIQUID HARDENER/SEALER
CONC-PMT	CONCRETE WITH PIGMENT
CONC-POL	CONCRETE - POLISHED
CONC-SLR	CONCRETE WITH CURE & SEAL
CONC-ST	CONCRETE WITH STAIN
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CSMU	CAST STONE MASONRY UNIT
CT	CERAMIC TILE
CTSK	COUNTERSINK, COUNTERSUNK
CU FT	CUBIC FEET / FOOT
CUST	CUSTODIAN / CUSTODIAL
CW	ALUMINUM CURTAIN WALL
CWFD	CEMENTITIOUS WOOD FIBER DECK
D	DEPTH/DEEP
DBL	DOUBLE
DEMO	DEMOLITION
DETE	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DHM	DETENTION HOLLOW METAL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DOOR LOUVER
DN	DOWN
DP	DAMPPROOFING
DR	DISPLAY RAIL
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
EA	EACH
EF	EXHAUST FAN
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAS	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EVCT	ENHANCED VINYL COMPOSITION TILE
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXPC	EXPOSED CONSTRUCTION
EXT	EXTERIOR
FAAF	FLUID APPLIED ATHLETIC FLOORING
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FIN	FINISHED
FLR	FLOOR
FLRG	FLOORING
FO	FACE OF
FRM	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GYPSUM BOARD
GB-AR	GYPSUM BOARD - ABUSE RESISTANT
GB-IR	GYPSUM BOARD - IMPACT RESISTANT
GB-S	GYPSUM BOARD - SECURITY
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING
GL-BLK	GLASS BLOCK
GPM	GALLONS PER MINUTE
GRT	GROUT
GSFT	GLAZED STRUCTURAL FACING TILE
GT	GLASS TILE
GWT	GLAZED WALL TILE
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HBD	HARDBOARD
HDC	HOLD DOWN CLIPS
HDNR	HARDENER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATINGS
HPFP	HIGH PERFORMANCE FLOOR PAINT
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH, INCHES
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
IRWC	IMPACT RESISTANT WALL COVERING
IWB	INTERACTIVE WHITE BOARD
JAN	JANITOR
JCT	JUNCTION
JT	JOINT
L	LENGTH/LONG
LAB	LABORATORY
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LIN	LINOLEUM
LKR	LOCKER
LMC	LINEAR METAL CEILING
LPS	LAMINATE PANEL SYSTEM
LT	LIGHT
LVR	LOUVER
M	METER
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MCM	METAL COMPOSITE MATERIAL
MCP	METAL CEILING PANEL
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MIF	MULTICOLOR INTERIOR FINISHING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MPS	MANUAL PROJECTION SCREEN
MR	MAP RAIL
MT	MOUNT
MTD	MOUNTED
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPNG	OPENING
OPP HD	OPPOSITE HAND
OVHD	OVERHEAD
P-TILE	PORCELAIN TILE
PC	PRECAST
PERF	PERFORATED, PERFORATION(S)
PERIM	PERIMETER
PIP	POURED IN PLACE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLASTIC LAMINATE WOOD
PLYWD	PLYWOOD
PNL	PANEL, PANELING
POLY	POLYETHYLENE
PPS	POWER PROJECTION SCREEN
PPT	PRESSURE- OR PRESERVATIVE-TREATED
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARE / PREPARATION
PS	PROJECTION SCREEN
PSB	PENCIL SHARPENER BLOCK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTN	PARTITION
PTS	PNEUMATIC TUBE SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PVWC	PERFORATED VINYL WALL COVERING
QSM	QUARTZ SURFACING MATERIAL
QT	QUARRY TILE
QTY	QUANTITY
R	RISER, RADIUS
R/W	RIGHT OF WAY
RAD	RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REFG	REFRIGERATOR
REINF	REINFORCING, REINFORCE(D)
REM	RECESSED ENTRY MAT
REQ'D	REQUIRED
RES	RESINOUS FLOORING
RFT	RUBBER FLOOR TILE
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RSF	RUBBER SHEET FLOORING
RSR	RESILIENT STAIR RISER
RST	RESILIENT STAIR TREAD
RT	RIGHT
RTU	ROOFTOP UNIT
SAB	SOUND ATTENUATION BLANKET
SC-PLK	SECURITY CEILING PLANK
SC-PNL	SECURITY CEILING PANEL
SCH	SCHEDULE
SF	SQUARE FEET / FOOT
SFRM	SPRAYED FIRE RESISTANT MATERIAL
SHM	SECURITY HOLLOW METAL
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SPF	SPRAYED POLYURETHANE FOAM
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FEET / FOOT
SRD	SECONDARY ROOF DRAIN
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STREET
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWM	SECURITY WOVEN MESH / WOVEN ROD
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
T.O.	TOP OF
TB	TACKBOARD
TCF	TEXTILE COMPOSITE FLOORING
TEL	TELEPHONE
TERR-C	TERRAZZO CEMENTITIOUS
TERR-E	TERRAZZO EPOXY
TERR-R	TERRAZZO RUBBERIZED
THHD	THRESHOLD
THK	THICKNESS, THICK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TACK STRIP
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED (INDICATED) OTHERWISE
VAT	VINYL ASBESTOS TILE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VEST	VESTIBULE
VFCT	VINYL FREE COMPOSITION TILE
VFWC	VINYL FREE WALLCOVERING
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VW	VINYL WINDOW
VWC	VINYL WALL COVERING
W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCP	WOOD CEILING PANEL
WD	WOOD
WDW	WINDOW
WP	WATERPROOFING
WPT	WORKING POINT
WSCT	WAINSCOT
WSF	WOOD SPORTS FLOORING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XPS	EXTRUDED POLYSTYRENE

KEYNOTES

n — KEYNOTE (1 TO 2 DIGITS)

n/n — KEYNOTE (3 DIGITS ONLY)

n n/n" — SIZE: THICKNESS OR OTHER DESCRIPTIVE INFORMATION

1. KEYNOTES ARE GENERALLY ASSOCIATED WITH A SERIES OF DRAWINGS (e.g., A3.2:n, A5.1:n); THEREFORE KEYNOTE NUMBERS FROM SERIES TO SERIES WILL VARY (i.e., KEYNOTE NO. 1 IN THE A3.2:n SERIES WILL BE DIFFERENT FROM KEYNOTE NO. 1 IN THE A5.1:n SERIES).

ARCHITECTURAL GRAPHIC SYMBOL LEGEND

REFER TO A3.0.1 FOR FINISH SCHEDULE — SUPERVISOR'S OFFICE / A101 / 100 SF — SPACE NAME; SPACE NUMBER; SQUARE FOOTAGE, IF INDICATED; BUILDING "PART" NUMBER IN MULTI-PART BUILDING

REFER TO A3.1.1 FOR SCHEDULE — A101C / 60 — DOOR; FIRE RATING IN MINUTES (IF INDICATED); DOOR SUFFIX LETTER WHEN MORE THAN ONE DOOR PER SPACE; SPACE NUMBER

REFER TO A3.1.n FOR TYPES — STL / 11 — STEEL FRAME NUMBER

REFER TO A3.1.n FOR TYPES — AW / 11 — ALUMINUM WINDOW NUMBER

REFER TO A3.1.n FOR TYPES — AS / 11 — ALUMINUM STOREFRONT NUMBER

REFER TO A3.1.n FOR TYPES — VW / 11 — VINYL WINDOW NUMBER

REFER TO A3.1.n FOR TYPES — CW / 11 — CURTAIN WALL NUMBER

REFER TO A3.1.n FOR TYPES — VR / 11 — LOUVER NUMBER

REFER TO A3.1.n FOR TYPES — GBLK / 11 — GLASS BLOCK NUMBER

REFER TO A0.2 FOR LEGEND — JOINT

REFER TO A0.2 FOR LEGEND — Xn-n — WALL PARTITION TYPE; FIRE RESISTANCE RATING IN HOURS

Xn-XX — WALL PARTITION TYPE; SB=SMOKE BARRIER SP=SMOKE PARTITION IU=INCIDENTAL USE

REFER TO A8.1.1 FOR ELEVATIONS — 8 / A8.3 / A8.1 / 9 / 10 — INTERIOR ARCHITECTURAL WOODWORK (CASEWORK) ELEVATION

REFER TO A10.1 FOR LEGEND — RFAn — ROOF ASSEMBLY

REFER TO LS1.1 FOR LEGEND — Xn — FIRE-RATED ASSEMBLY

REFER TO A5.1.1 FOR LEGEND — WAn — WALL ASSEMBLY

REFER TO A7.1.1 FOR LEGEND — TAn — TOILET ASSEMBLY

REFER TO A3.1.n FOR LEGEND — n — GLAZING/GLASS TYPES

1T — EQUIPMENT TYPE

N — PLAN NORTH; TRUE NORTH ARROW

MATCH LINE

WPT — WORKING POINT

DATUM POINT

℄ — CENTERLINE

℄ — PLATE

FEC — SURFACE MOUNT FEC: TOP OF CABINET AT 4'-0" AFF

FEC — SEMI-RECESSED FEC: T.O. MASONRY OPENING AT 4'-0" AFF

FEC — FULLY-RECESSED FEC: T.O. MASONRY OPENING AT 4'-0" AFF

FEB — BRACKET: MOUNT BRACKET AT 4'-0" AFF

1 / A — STRUCTURAL GRID LINE WITH DESIGNATIONS

1 / A2.1 — WALL OR MSC SECTION WHERE CUT; WALL SECTION NUMBER; DRAWING NUMBER WHERE WALL SECTION IS INDICATED

1 / A2.1 — DETAIL OR ENLARGED PLAN WHERE CUT; DETAIL OR ENLARGED PLAN NUMBER; DRAWING NUMBER WHERE DETAIL OR ENLARGED PLAN IS INDICATED

1 / A2.1 — 1 / A2.1 — BUILDING SECTION WHERE CUT; SECTION NUMBER; DRAWING NUMBER WHERE SECTION IS INDICATED

1 / 2 A7.1 4 / 3 — 1 / A7.1 — INTERIOR OR EXTERIOR ELEVATION WHERE CUT; ELEVATION NUMBER; DRAWING NUMBER WHERE ELEVATION IS INDICATED; MULTIPLE ELEVATIONS

PLAN TITLE
1/8"=1'-0"

A ELEVATION OR BUILDING SECTION TITLE
1/4"=1'-0"

A2.0.1 A2.0.2 A2.0.3 A4.1

- ELEVATION OR BUILDING SECTION LETTER
- DRAWING NUMBER WHERE ELEVATION OR BUILDING SECTION IS INDICATED
- DRAWING NUMBER WHERE ELEVATION OR BUILDING SECTION IS CUT
- ADDITIONAL DRAWING NUMBERS WHERE ELEVATION OR BUILDING SECTION IS CUT

1 ENLARGED PLAN OR WALL SECTION TITLE
1/4"=1'-0"

A2.1 A2.3 A2.6 A7.1

- ENLARGED PLAN OR WALL SECTION NUMBER
- DRAWING NUMBER WHERE ENLARGED PLAN OR WALL SECTION IS INDICATED
- DRAWING NUMBER WHERE ENLARGED PLAN OR WALL SECTION IS CUT
- ADDITIONAL DRAWING NUMBERS WHERE ENLARGED PLAN OR WALL SECTION IS CUT

3 DETAIL TITLE
1/2"=1'-0"

A5.1 A5.2 A5.3 A5.7

- DETAIL NUMBER OR LETTER
- DRAWING NUMBER WHERE DETAIL IS INDICATED
- DRAWING NUMBER WHERE DETAIL IS CUT
- ADDITIONAL DRAWING NUMBERS WHERE DETAIL IS CUT

1 CASEWORK TITLE
1/4"=1'-0"

- CASEWORK ELEVATION NUMBER

ARCHITECTURAL GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. ELEMENTS THAT ARE IDENTIFIED BY OTHER DISCIPLINES (e.g., CIVIL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL) ELSEWHERE WITHIN THE ARCHITECTURAL SERIES OF DRAWINGS AND/OR SPECIFICATIONS, OR IDENTIFIED OR COVERED BY DEFAULTS (e.g., SIZES, THICKNESS, SPACING, MATERIALS) IN THE SPECIFICATIONS MAY NOT BE ANNOTATED (NOTE OR KEYNOTED) ON THESE DRAWINGS.

C. ELEMENTS IDENTIFIED IN "LEGENDS" AND/OR "GENERAL NOTES" MAY NOT BE NOTED IN DETAILS, OR SECTIONS, AS THESE ELEMENTS ARE IDENTIFIED IN THE LEGENDS (e.g. FACE BRICK, CMU, WINDOWS)

D. REFER TO "ASSEMBLIES" FOR MATERIALS AND COMPONENTS THAT MAKE UP THAT PARTICULAR ASSEMBLY (e.g., EXTERIOR WALL ASSEMBLIES, ROOF ASSEMBLIES, AND FIRE-RATED ASSEMBLIES). ONCE A PARTICULAR ASSEMBLY HAS BEEN IDENTIFIED ON ONE DRAWING, THAT SAME ASSEMBLY GRAPHIC SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE THAT SAME ASSEMBLY AT THE SIMILAR LOCATION WHETHER THE ASSEMBLY GRAPHIC SYMBOL IS SHOWN OR NOT.

E. VERIFY ALL DIMENSIONS, INCLUDING DIMENSIONS ON STRUCTURAL DRAWINGS AND OTHER ARCHITECTURAL DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

F. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL EQUIPMENT INDICATED TO BE MOUNTED OR OTHERWISE REQUIRED TO BE MOUNTED TO THE FLOOR. WHERE PADS ARE NOT SHOWN, PROVIDE 6" THICK CONCRETE PADS W/ 3/4" CHAMFERED EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB REINFORCING REQUIREMENTS.

ARCHITECTURAL MATERIALS LEGEND

- EARTH
- POROUS FILL
- CONCRETE
- FACE BRICK
- SPLIT-FACE BLOCK
- CONCRETE MASONRY UNIT
- GROUTED SOLID CONCRETE MASONRY UNIT

NOTE: PROVIDE 100% SOLID, PLANT-CAST UNITS WHERE CORE HOLES WOULD BE VISIBLE WITHIN FINISH SPACE (E.G., WINDOW SILLS)

- ARCHITECTURAL PRECAST CONCRETE
- CAST STONE MASONRY
- RIGID INSULATION
- BATT INSULATION
- SPRAYED POLYURETHANE FOAM
- WOOD SHIM
- WOOD BLOCKING - CONTINUOUS
- FINISHED WOOD
- PLYWOOD
- GYPSUM BOARD / SHEATHING
- STONE

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COMMONWEALTH OF VIRGINIA — JOSHUA NATHAN BENNETT — Lic. No. 0401013563 — 08/18/25 — ARCHITECT

HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

GENERAL ARCHITECTURAL INFORMATION

A0.1

8/18/2025 12:47:20 PM

TERMINATION GENERAL NOTES

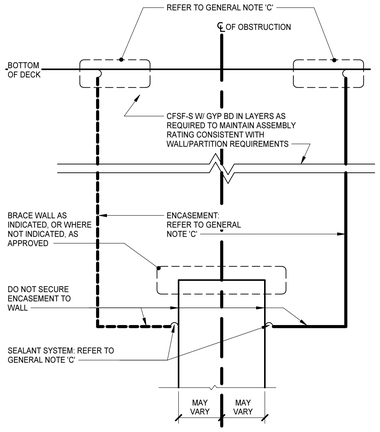
A. AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.

B. AT ALL OTHER WALLS INDICATED TO EXTEND TO UNDERSIDE OF FLOOR/ROOF DECK/CAP: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES). BRACE WALL AS INDICATED OR REQUIRED.

C. AT ALL WALLS PREVENTED FROM TERMINATING AT THE UNDERSIDE OF FLOOR/ROOF DECK BY OBSTRUCTIONS, COMPLY WITH THE FOLLOWING:

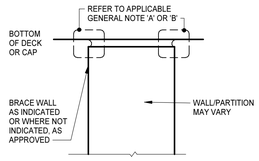
- AT FIRE-, SMOKE-, AND ACOUSTICALLY-RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
- AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
- AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
- SEAL ENCASEMENT TO WALL AND SEAL ENCASEMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

TERMINATIONS



HEAD-OF-WALL TERMINATION @ OBSTRUCTION

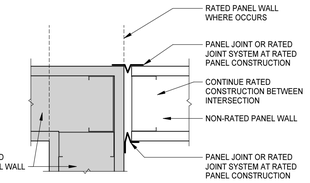
OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)



HEAD-OF-WALL TERMINATION @ NON-OBSTRUCTION

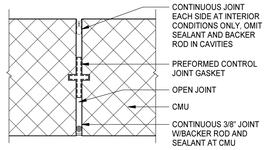
WALL JOINTS

RATED/ NON-RATED CFSF/ PANELS

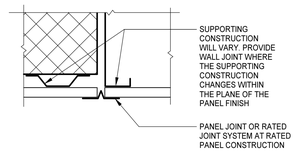


NOTE:
RATED WALL SHADED FOR CLARITY THIS DETAIL

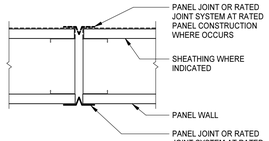
CMU



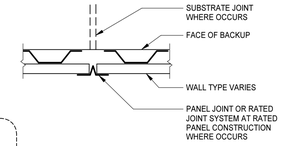
CMU/ CFSF



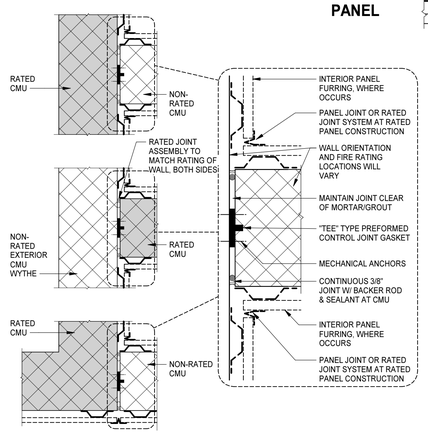
CFSF/ PANELS



PANEL



RATED/ NON-RATED CMU



NOTE:
RATED WALLS SHADED FOR CLARITY THIS DETAIL

WALL/PARTITION TYPE GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. EXTEND WALL/PARTITION ASSEMBLY COMPONENTS FULL HEIGHT OF ASSEMBLY.

C. ALL INTERIOR MASONRY UNIT PARTITIONS: M6 UNLESS INDICATED OTHERWISE.

D. ALL INTERIOR CFSF PANEL PARTITIONS: P1 UNLESS INDICATED OTHERWISE.

E. REFER TO STRUCTURAL DRAWINGS AND RELATED SPECIFICATIONS FOR SOLID MASONRY, GROUTING, AND REINFORCEMENT REQUIREMENTS INCLUDING BUT MAY NOT BE LIMITED TO:

- MASONRY WALLS/PARTITIONS
- LINTELS
- LINTEL BEARING CONDITIONS
- BOND BEAMS
- SHELF BEARING CONDITIONS
- STRUCTURAL REINFORCING REQUIREMENTS
- CHANGES IN WYTHE

F. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.

G. EXTEND ALL FIRE-, SMOKE-, INCIDENTAL USE-, AND ACOUSTICAL-RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASEMENT OR SOLID CAP ABOVE.

- SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS.

H. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:

- EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.

I. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE FIRE WALLS.

J. SEAL AROUND ALL PENETRATIONS.

K. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS.

L. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.

M. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT, UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE P2 CHASE CONSTRUCTION.

- HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES.
- EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.

N. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

MASONRY UNIT WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
M6	--	--	5 5/8" — 6" CMU
M8	--	--	7 5/8" — 8" CMU

PANEL WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1	--	--	4 7/8" — 5/8" GYPSUM BOARD; 3 5/8" CFSF-NS; 3" SOUND ATTENUATION BATTS
P2	--	--	4 1/4" — 5/8" GYPSUM BOARD; 3 5/8" CFSF-NS; 3" SOUND ATTENUATION BATTS
P3	--	--	4 9/32" — 5/8" LEAD LINED GYPSUM BOARD; 3 5/8" CFSF-NS; 3" SOUND ATTENUATION BATTS
P4	--	--	2 1/8" — 2 LAYERS 5/8" GYPSUM BOARD; 7/8" CFSF
P5	--	--	5/8" GYPSUM BOARD; 4" CFSF-NS
P6-1	X1	--	7 1/4" — 5/8" GYPSUM BOARD; 6" CFSF-NS; SOUND ATTENUATION BATTS
P7-1	X4	--	4 5/8" — 4"; 5/8" TYPE X GYP BD; 4" CH STUD; 1" SHAFTWALL LINER BD

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JOSHUA NATHAN BENNETT
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08/18/25
ARCHITECT

HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS

A0.2

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PHASING SCHEDULE

PHASE/ACTIVITY	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7
PRECONSTRUCTION - SUBMITTALS							
PHASE 1 - VETERINARY SUITE AND SURGERY							
PHASE 2 - OFFICES AND WORK AREAS							
PHASE 3 - KENNELS							
PHASE 4 - REMAINING INSULATION/MECHANICAL WORK*							

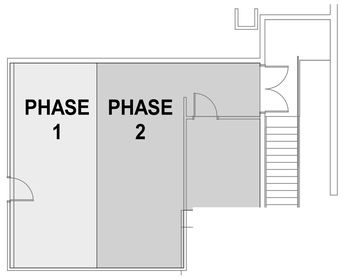
*SCHEDULE ALLOWS FOR SUBMITTAL AND PROCUREMENT TIME FOR THE MECHANICAL AIR HANDLING UNIT (ERU-1). INSTALLATION OF ERU-1 ANTICIPATED FOR PHASE 4.

PHASING LEGEND

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4

GENERAL PHASING NOTES

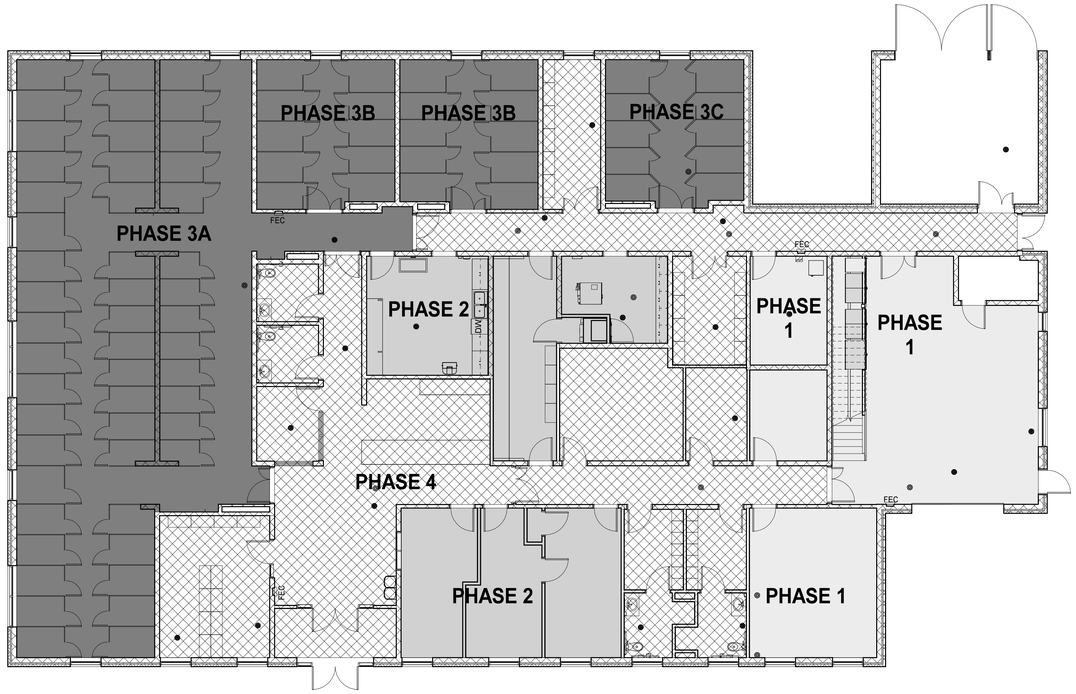
1. THE PHASING PLAN IS GENERAL IN NATURE AND FOR REFERENCE ONLY TO PROVIDE A PRIORITIZED TIMELINE. IT DOES NOT REFLECT CONTRACTUAL DATES, ACTUAL SUMS OF TIME, OR PRECISE LOCATIONS OF CONSTRUCTION. CONTRACTOR TO PROVIDE DETAILED PHASING SCHEDULE TO OWNER/ARCHITECT FOR REVIEW.
2. MAINTAIN UTILITIES AND CONDITIONED AIR TO ALL OCCUPIED AREAS THROUGHOUT CONSTRUCTION. PROVIDE TEMPORARY MEASURES NECESSARY TO MAINTAIN EXISTING CONDITIONS.
3. GC SHALL MAINTAIN REQUIRED EXITS. FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS AT ALL TIMES. WHERE SUCH REQUIRED ELEMENTS OR DEVICES ARE BEING ALTERED OR REPAIRED, MAKE ADEQUATE SUBSTITUTE PROVISIONS.



N

PHASING PLAN - MEZZANINE
1/8" = 1'-0"

MECHANICAL WORK IN MEZZANINE WILL OCCUR IN PHASES 1 AND 2.



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PHASING PLAN
1/8" = 1'-0"

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08/18/25
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HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS

DATE	DESCRIPTION

PHASING PLAN

A1.0.1

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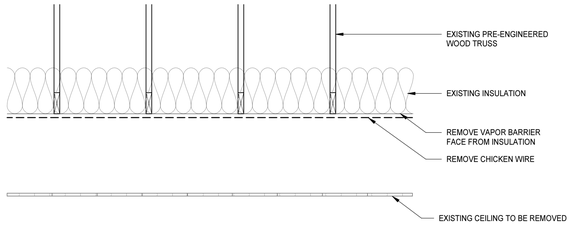
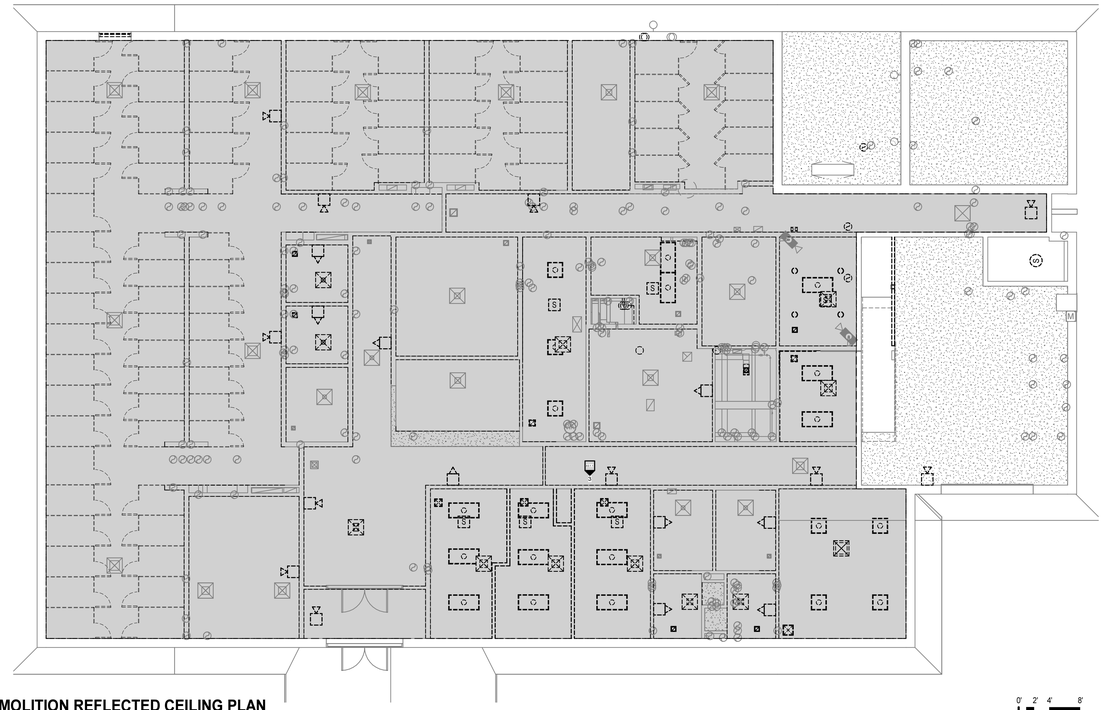


3 A1.2.1 **INSULATION DEMO DETAIL**
3/4" = 1'-0"



N **DEMOLITION REFLECTED CEILING PLAN**
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.2.1 - A1.2.n

- EXISTING PARTITION/ WALL/ ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING WINDOW ASSEMBLY AND FRAMING, INCLUDING ANCHORS
- REMOVE EXISTING DOOR AND FRAME ASSEMBLY INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS).
- REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- REMOVE ALL EXISTING FINISH FLOORING, BASE, AND SUSPENDED CEILINGS IN AREA
- REMOVE VAPOR BARRIER FACE FROM UNDERSIDE OF ATTIC INSULATION
- REMOVE SUSPENDED CEILING IN AREA

DEMOLITION PLAN GENERAL NOTES

A. REMOVE ALL CONSTRUCTION SHOWN DASHED OR OTHERWISE INDICATED TO BE REMOVED. REFER TO DEMOLITION KEYNOTES FOR ADDITIONAL INFORMATION.

B. REPRESENTATION OF EXISTING ITEMS ARE TO BE CONSIDERED GENERAL IN NATURE AND ARE BASED UPON INFORMATION PROVIDED BY OWNER'S RECORD DRAWINGS AND BY NON-DESTRUCTIVE FIELD INVESTIGATIONS. DEMOLITION PLANS ARE NOT COMPREHENSIVE IN ALL DETAILS OF EXISTING CONSTRUCTION THAT SHALL BE REMOVED TO COMPLETE THE WORK OF THE CONTRACT.

C. NOTIFY THE ARCHITECT OF ANY EXISTING CONDITIONS THAT PREVENT EXECUTION OF THE WORK INDICATED.

D. COORDINATE IN THE FIELD WITH THE OWNER ALL EXISTING ITEMS TO BE SALVAGED PRIOR TO ACTUAL DEMOLITION WORK. SURFACE CLEAN AND STORE SALVAGED ITEMS AS DIRECTED BY THE OWNER. THE OWNER HAS THE FIRST RIGHT OF REFUSAL ON ALL ITEMS REMOVED FROM THE PROJECT.

E. REFER TO OTHER DISCIPLINES DEMOLITION DRAWINGS FOR RELATED DEMOLITION WORK. THE ARCHITECTURAL DRAWINGS DO NOT INDICATE ALL THE DEMOLITION WORK REQUIRED IN THIS CONTRACT.

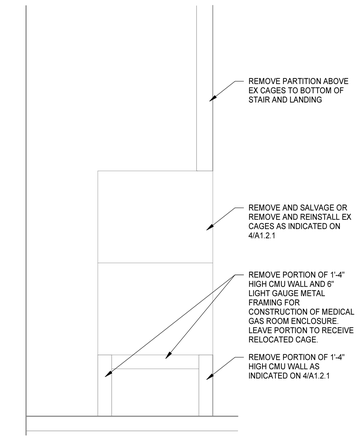
F. PATCH TO MATCH ADJACENT SURFACES ALL EXPOSED SURFACES AFFECTED BY THE DEMOLITION WORK THAT SHALL REMAIN EXPOSED TO VIEW UNLESS SPECIFICALLY INDICATED OTHERWISE.

DEMOLITION PLAN KEYNOTES

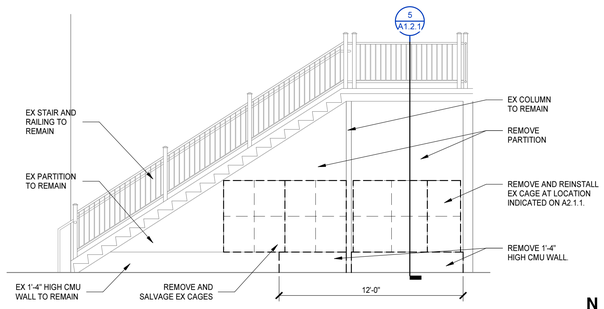
REPRESENTED BY n

APPLIES TO DRAWINGS A1.2.1

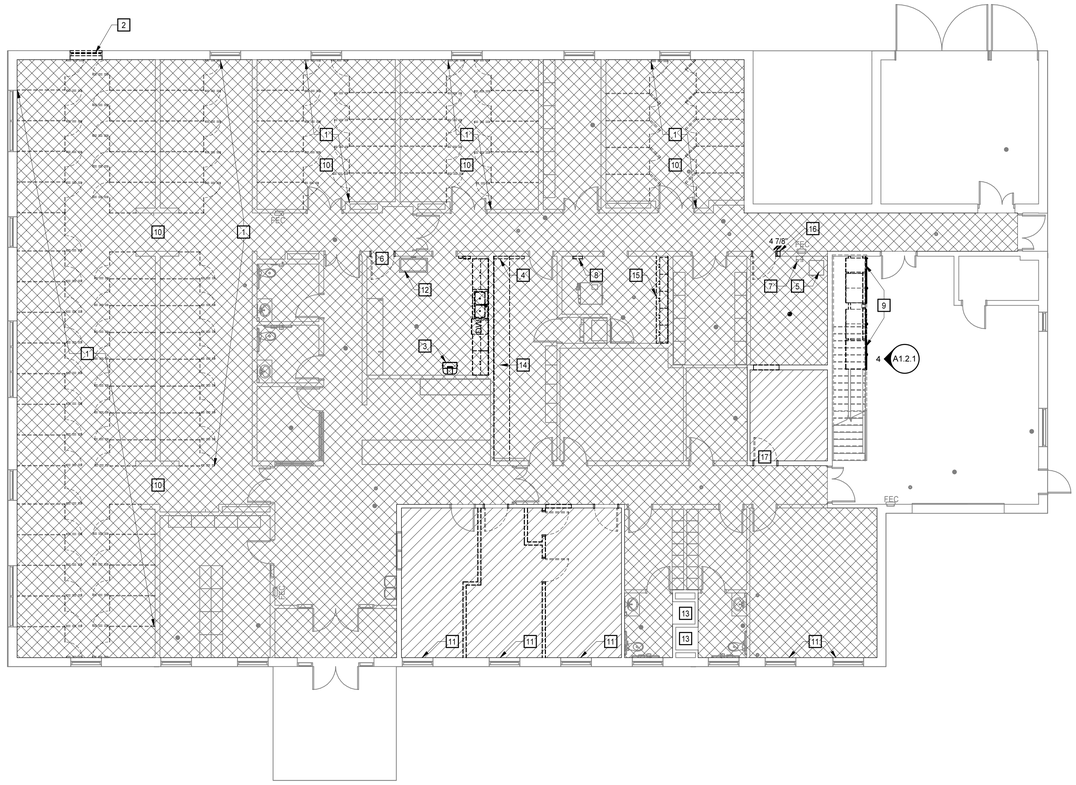
1	REMOVE DOG KENNEL
2	REMOVE WINDOW. ENLARGE OPENING IN WALL TO ACCOMODATE DOOR. REFER TO DOOR SCHEDULE FOR DOOR SIZE AND TYPE.
3	REMOVE EYEWASH STATION
4	REMOVE TACK BOARD
5	EXISTING SAFE TO REMAIN
6	REMOVE DOOR, FRAME, AND ASSOCIATED HARDWARE
7	REMOVE PAPER TOWEL DISPENSER
8	REMOVE EYEWASH STATION
9	REMOVE CAGES. REFER TO 4/A1.2.1
10	REMOVE ALL WALL BASE IN KENNEL AREA
11	REMOVE WINDOW SHADES.
12	EXISTING SCALE TO REMAIN
13	CEILING ABOVE SHOWERS TO REMAIN
14	REMOVE COUNTER AND SUPPORTS
15	REMOVE CASEWORK CABINETS AND COUNTER
16	REMOVE PORTION OF WALL
17	REMOVE DOOR. FRAME TO REMAIN



5 A1.2.1 A1.2.1 **CAGE SECTION**
3/4" = 1'-0"



4 A1.2.1 A1.2.1 **SALLYPORT CAGES**
1/4" = 1'-0"



N **DEMOLITION FIRST FLOOR PLAN**
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"

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HENRICO COUNTY ANIMAL SHELTER RENOVATION
10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
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DEMOLITION PLAN - FIRST FLOOR

A1.2.1

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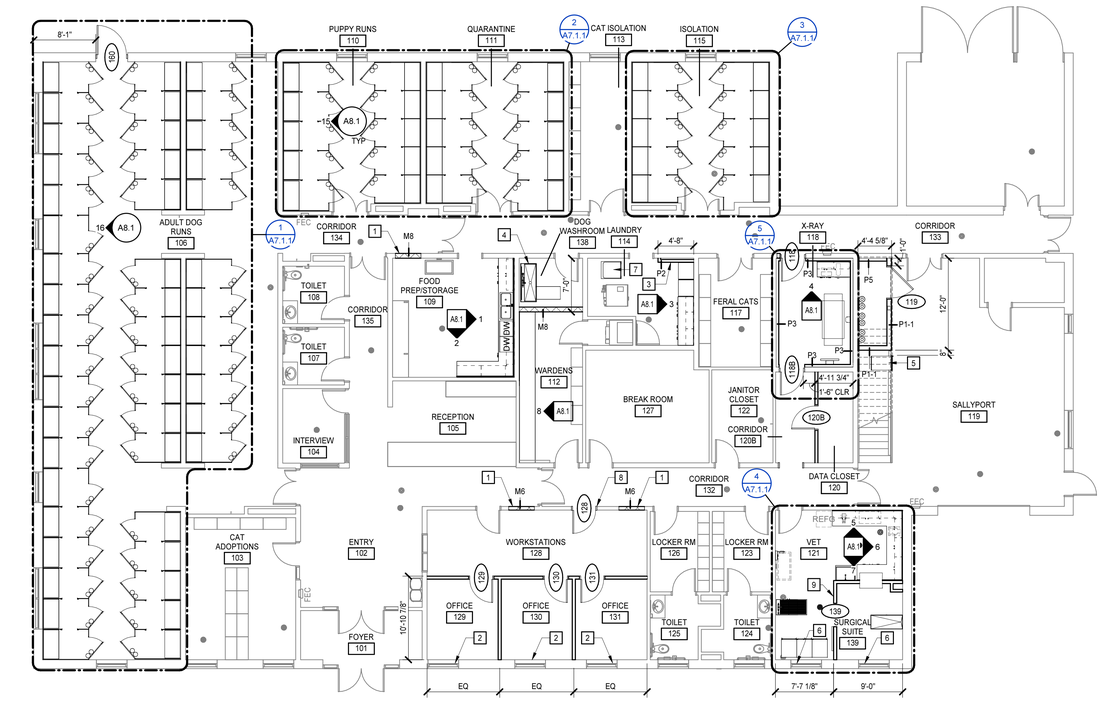
FLOOR PLAN KEYNOTES

REPRESENTED BY [n]

APPLIES TO DRAWINGS A2.1

1	INFILL OPENING. MATCH ADJACENT CONSTRUCTION.
2	HORIZONTAL LOUVER BLINDS
3	RECESSED EYEWASH. INSTALL PANIC BAR AT 48" AFF MAX TO COMPLY WITH ACCESSIBLE REACH RANGES.
4	GROOMING TUB WITH LEFT HAND RAMP
5	REINSTALL CAGE. PROVIDE STAINLESS STEEL ANGLE CLOSURE ON ALL SIDES AS REQUIRED.
6	SOLAR CONTROL WINDOW FILM
7	FRONT-LOAD WASHER
8	PROVIDE (2)-L3 1/2x2 1/2x5/16 (LONG LEG VERTICAL AND BACK-TO-BACK) BEAR 4" INTO SOUND AND SOLID CMU
9	PUSH BUTTON DOOR OPERATOR



N

FLOOR PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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FLOOR PLAN

A2.1.1

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FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	WAINSCOT	CEILING	NOTES
106	ADULT DOG RUNS	EX/ RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		EX	2
107	TOILET	EX	EX	EX	EX	EX	EX		GB PT	
108	TOILET	EX	EX	EX	EX	EX	EX		GB PT	
109	FOOD PREP/STORAGE	EX/ RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		EX	2
110	PUPPY RUNS	EX/ RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		EX	2
111	QUARANTINE	EX/ RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		EX	2
112	WARDENS	EX/ RES	RES	PT	PT	PT	PT		ACP-A	2
114	LAUNDRY	EX/ RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		EX	2
115	ISOLATION	EX/ RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		EX	2
118	X-RAY	EX	EX	EPX PT	EPX PT	EPX PT	EPX PT		ACP-A	
120	DATA CLOSET	SDT	RB	PT	PT	PT	PT		EXPC PT	
120B	CORRIDOR	EX/ RES	RES	PT	PT	PT	PT		ACP-A	2
121	VET	RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		ACP-B	1
122	JANITOR CLOSET	EX	EX	EX	EX	EX	EX		GB PT	
124	TOILET	EX	EX	EX	EX	EX	EX		GB PT	
125	TOILET	EX	EX	EX	EX	EX	EX		GB PT	
128	WORKSTATIONS	VT	RB	PT	PT	PT	PT		ACP-A	
129	OFFICE	VT	RB	PT	PT	PT	PT		ACP-A	
130	OFFICE	VT	RB	PT	PT	PT	PT		ACP-A	
131	OFFICE	VT	RB	PT	PT	PT	PT		ACP-A	
132	CORRIDOR	EX/ RES	RES	PT	PT	PT	PT		EX	2
133	CORRIDOR	EX	EX	EPX PT	EPX PT	EPX PT	EPX PT		EX	
134	CORRIDOR	EX	EX	EPX PT	EPX PT	EPX PT	EPX PT		EX	
138	DOG WASHROOM	EX/ RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		EX	2
139	SURGICAL SUITE	RES	RES	EPX PT	EPX PT	EPX PT	EPX PT		ACP-B	1

NOTE:

1. PROVIDE INTEGRAL EPOXY RESINOUS COVE WALL BASE 8"H. REFER DETAIL BELOW.

2. PATCH EXISTING FLOORING WITH NEW RESINOUS MATERIAL TO MATCH EXISTING FLUID-APPLIED FLOORING IN COLOR AND COMPOSITION. REMOVE THE EXISTING BASE AND INSTALL NEW RESINOUS COVE BASE. REFER TO DETAIL 2/A3.0.1

FINISH SCHEDULE GENERAL NOTES

A. FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.

B. PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.

C. CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.

D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.

E. BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.

F. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION

G. REFER TO SPECIFICATIONS FOR INFORMATION ON FINISH FIRE CLASSIFICATION RATING.

H. PAINT ALL EXPOSED ELEMENTS (SUCH AS PIPING AND CONDUITS) TO MATCH ADJACENT COLOR (HIDE & BLEND).

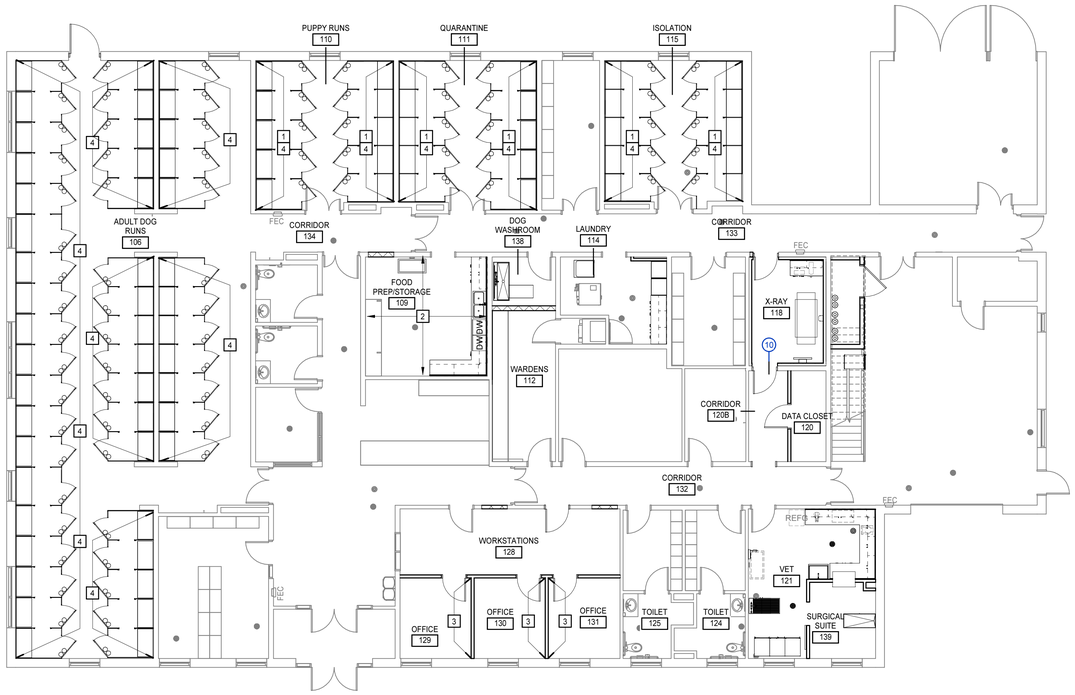
I. WHERE NEW RESINOUS FLOORING IS SPECIFIED, PROVIDE INTEGRAL EPOXY RESINOUS COVE WALL BASE 8"H.

FINISH PLAN KEYNOTES

REPRESENTED BY n

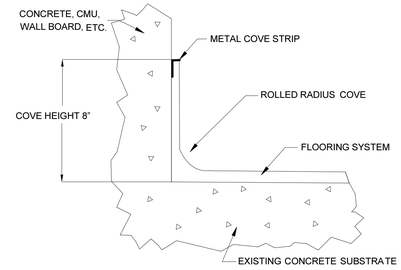
APPLIES TO DRAWINGS A3.0.1

1	ACCENT WALL PAINT ABOVE KENNELS
2	ACCENT WALL PAINT AT ALL WALLS ABOVE 7'-4" HIGH
3	ACCENT WALL PAINT THIS WALL, FULL HEIGHT
4	ACOUSTIC WALL PANELS, REFER TO A8.1 FOR TYPICAL LAYOUT AND PANEL SIZE



1 A4.1.x A3.0.1 **INTERIOR FINISH PLAN**

1/8" = 1'-0"



3 TYP A3.0.1 **RES COVE BASE DETAIL**

3" = 1'-0"

NOTE: USE DRY MIXED TROWELABLE MORTAR VERSION OF FLOORING MATERIAL TO BUILD COVE.

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FINISH SCHEDULE AND FIINISH PLAN

A3.0.1

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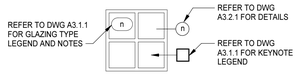
DOOR SCHEDULE

NUMBER	DOOR TYPE	SIZE (NOMINAL)	DOOR MATL	DOOR LOUVER	DOOR UC	DOOR GLAZING TYPE	FRAME TYPE	FRAME NUMBER	FRAME SECTIONS	FRAME HEAD DETAIL	FRAME JAMB DETAIL	FRAME JAMB DETAIL	FRAME SILL DETAIL	FIRE RATING	NOTES
118	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	2	A	9	8	8			LEAD LINED
118B	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	2	A	10	8	8			LEAD LINED
119	F	4'-0" x 7'-0" x 1 3/4"	STL			--	STL	1	A	1	1	1		60 MIN	
120B	F	3'-0" x 7'-0" x 1 3/4"	WD	--	--	--	STL	2	A	1	1	1			
128	N2	3'-0" x 7'-0" x 1 3/4"	STL	--	--	1	STL	2	A	1	1	1			
129	N2	3'-0" x 7'-0" x 1 3/4"	STL	--	--	1	STL	1	A	1	1	1			
130	N2	3'-0" x 7'-0" x 1 3/4"	STL	--	--	1	STL	1	A	1	1	1			
131	N2	3'-0" x 7'-0" x 1 3/4"	STL	--	--	1	STL	1	A	1	1	1			
139	FG	3'-0" x 7'-0" x 2"	ALUM	--	--	2	SLIDE	1	--	7	6	6			PUSH BUTTON OPERATOR
160	G	3'-10" x 7'-0" x 1 3/4"	STL	--	--	2	STL	3	A	5	4	4			

GENERAL NOTES



A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB, AND SILL CONDITIONS REFER TO DRAWING A3.2.1.

B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G., SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

GLAZING TYPES

REPRESENTED BY n

1. 1/4" CLEAR
2. 1" TINTED INSULATING

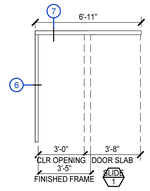
NOTES:
1. ALL GLAZING IN INTERIOR FRAMES SHALL BE TYPE 1, UNO
2. ALL GLAZING IN EXTERIOR FRAMES SHALL BE TYPE 2, UNO
3. GLAZE ALL OPENINGS IN FRAMES UNLESS SPECIFICALLY INDICATED OTHERWISE
4. ALL GLAZING SHALL BE SAFETY GLASS UNLESS INDICATED OTHERWISE

DOOR, FRAME AND GLAZING TYPE KEYNOTES

REPRESENTED BY n

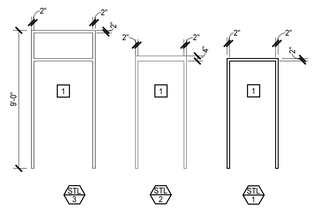
APPLIES TO DRAWINGS A3.1.1

1	SIZE AS REQUIRED TO ACCOMODATE DOOR, HARDWARE, AND FRAMING COMPONENTS



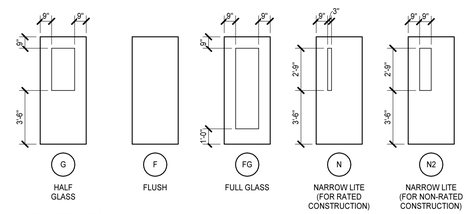
SLIDING DOOR TYPE

1/4" = 1'-0"



DOOR FRAME TYPES

1/4" = 1'-0"



DOOR TYPES

NO SCALE

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DOOR AND FRAME SCHEDULE

A3.1.1

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DOOR AND FRAME DETAIL KEYNOTES

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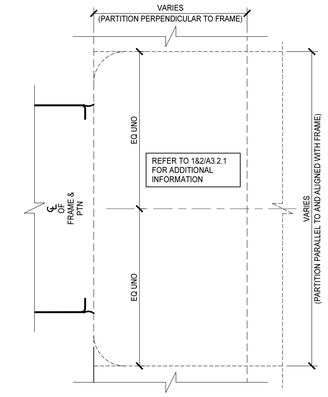
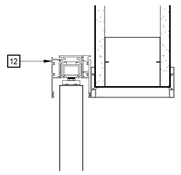
APPLIES TO DRAWINGS A3.2.1 - A3.2.n

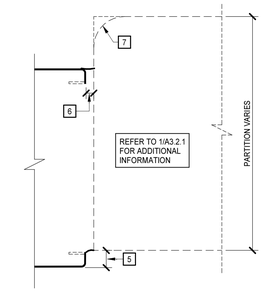
1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT, ALL SIDES - TOOL TO 90°.
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS; 1/2" @ GB.
6	1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.
9	BACKER ROD AND SEALANT
10	GROUT SOLID
12	SLIDING DOOR ASSEMBLY
13	STEEL FRAME WITH LEAD SHIELDING
14	LEAD LINED GYP BOARD
15	PROVIDE (2)-L3 1/2x3 1/2x5/16 (BACK-TO-BACK) BEAR 4" INTO SOUND AND SOLID CMU



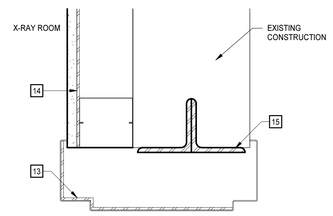
3 A3.2.1 **INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL**
6" = 1'-0"



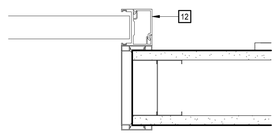
7 A3.1.1 A3.2.1 **HEAD DETAIL**
3" = 1'-0"



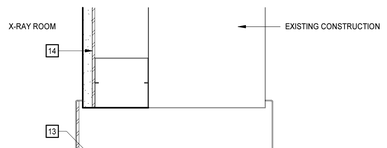
2 A3.2.1 **INTERIOR BETWEEN THE JAMB - PROJECTED HEAD/JAMB/SILL**
6" = 1'-0"



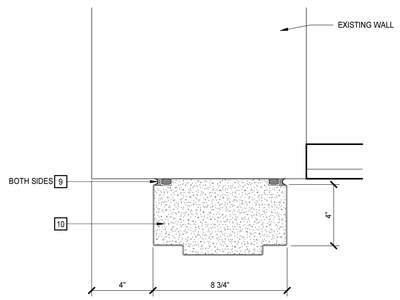
10 A2.0.x A3.2.1 **HEAD DETAIL**
3" = 1'-0"



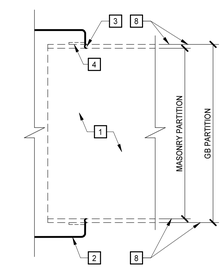
6 A3.1.1 A3.2.1 **JAMB DETAIL**
3" = 1'-0"



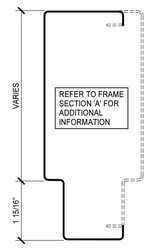
9 A3.2.1 **HEAD DETAIL**
3" = 1'-0"



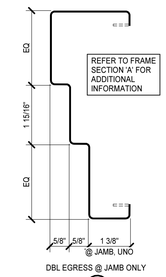
5 A3.2.1 **HEAD DETAIL**
3" = 1'-0"



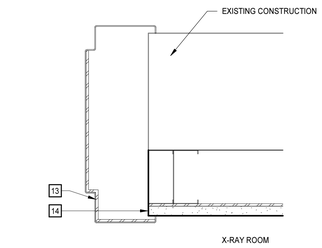
1 A3.2.1 **INTERIOR WRAP HEAD/JAMB/SILL**
6" = 1'-0"



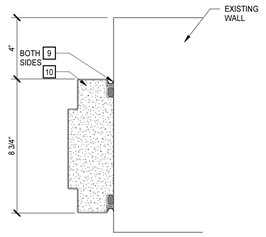
SINGLE RABBET
D



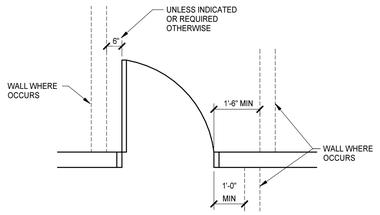
DBL EGRESS @ JAMB ONLY
B
HEAD SECTION SIMILAR



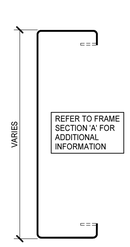
8 A3.2.1 **JAMB DETAIL**
3" = 1'-0"



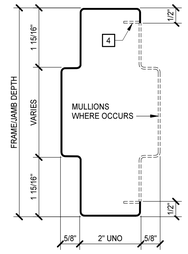
4 A3.2.1 **JAMB DETAIL**
3" = 1'-0"



MANEUVERING CLEARANCE AT DOORS
NO SCALE



CASED OPENING
C



DBL RABBET
A

1. ALL FRAME/JAMB DEPTHS, OTHER THAN WRAP CONDITIONS, SHALL BE 8 3/4", UNO.
2. ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
3. DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

STEEL FRAME SECTIONS
NO SCALE

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08/18/25
ARCHITECT

HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

DOOR AND FRAME DETAILS

A3.2.1

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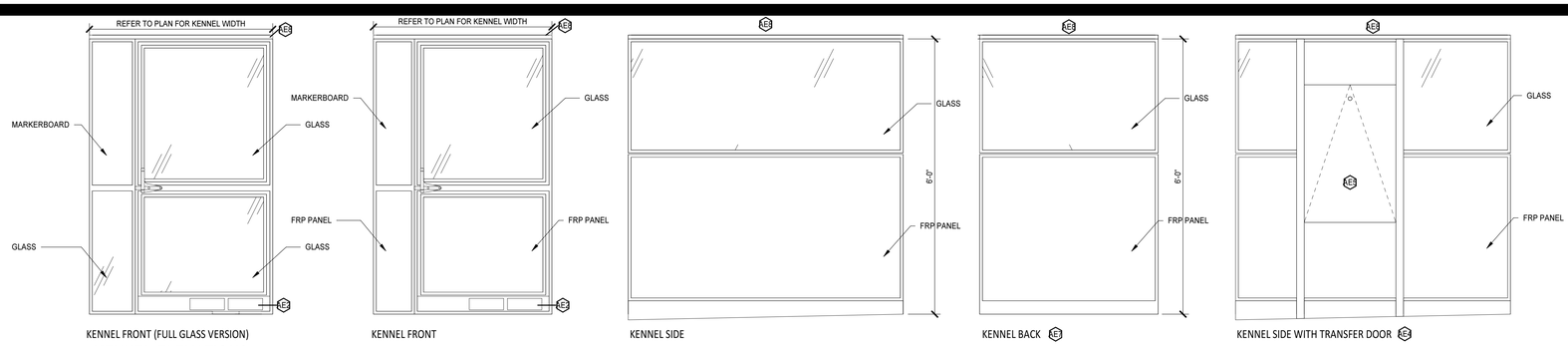


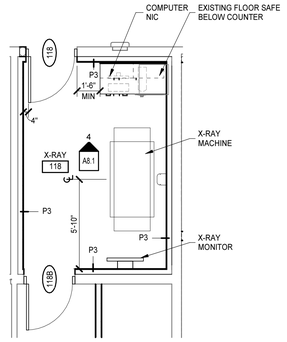
KENNEL FRONT (FULL GLASS VERSION) | KENNEL FRONT | KENNEL SIDE | KENNEL BACK | KENNEL SIDE WITH TRANSFER DOOR

KENNEL ELEVATIONS

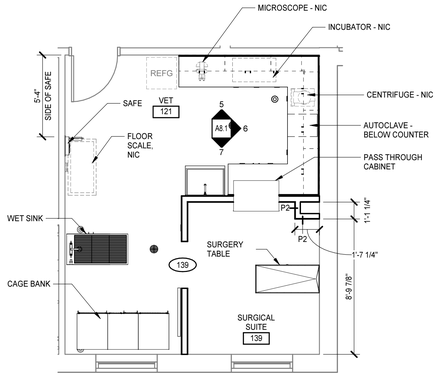
3/4" = 1'-0"

ANIMAL EQUIPMENT SCHEDULE

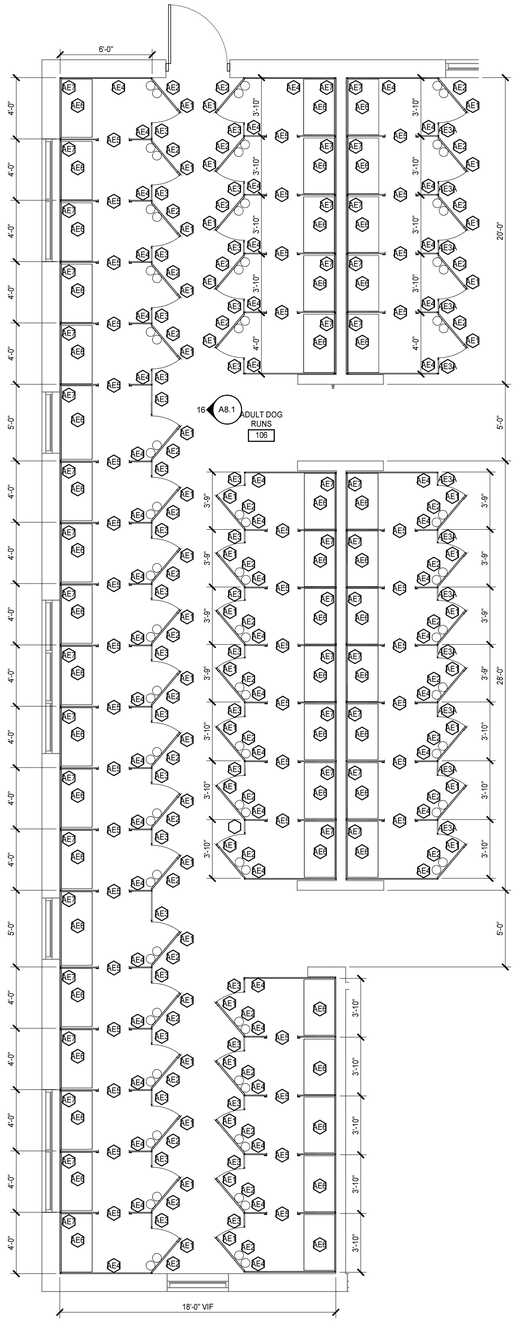
NO	DESCRIPTION	NOTES
AE1	KENNEL DOOR	
AE2	FOOD AND WATER BOWL FEEDER	
AE3	KENNEL FRONT	
AE3A	KENNEL FRONT - FULL GLASS	
AE4	KENNEL SIDE	
AE5	TRANSFER DOOR	
AE6	FLIP-UP REST BENCH	
AE7	KENNEL BACK	
AE8	KENNEL TOP	PROVIDE KENNEL TOP FOR ALL KENNELS



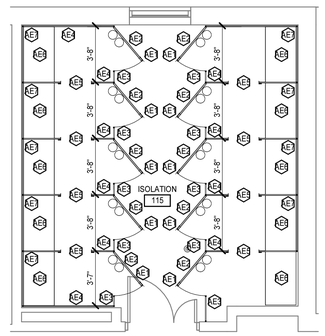
5 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"



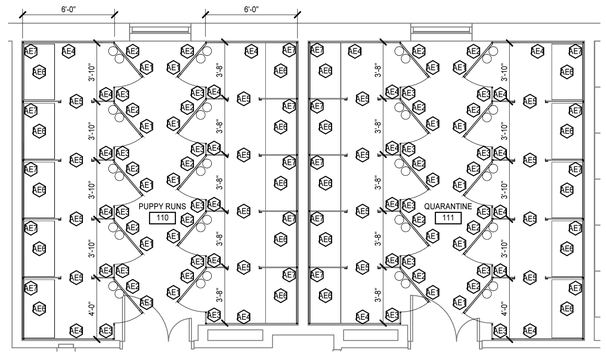
4 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"



1 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"



3 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"



2 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"

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HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

ENLARGED PLANS

A7.1.1

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CASEWORK GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
   a. 2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
   b. 2'-1" DEEP
   c. STAINLESS STEEL
   d. BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK
   e. EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
   f. VERIFY SLAB LEVELNESS AT CASEWORK PRIOR TO INSTALL. CONSTRUCTION TOLERANCES DO NOT APPLY TO ACCESSIBLITY DIMENSIONS; MAX DIMENSIONS SHALL BE MAINTAINED.

B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
   a. 2'-0" DEEP NOMINAL
   b. TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) AND 3" DEEP
   c. SINK LOCATIONS: BASE CABINET WITH ATTACHED TOE KICK FOR BARRIER FREE ACCESS. WIDTH AS INDICATED ON DRAWING.
   d. PHENOLIC CORE

C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
   a. 1'-0 1/2" DEEP NOMINAL
   b. 2'-6" HIGH
   c. TOP AT 7'-0" AFF
   d. MINIMUM 11" CLEAR INTERIOR DEPTH
   e. PHENOLIC CORE

D. UNLESS INDICATED OTHERWISE, ALL TALL CABINET(S):
   a. 2'-0" DEEP NOMINAL
   b. 7'-0" HIGH
   c. TOE KICKS: 4" HIGH AND 3" DEEP
   d. PHENOLIC CORE

E. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

F. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.

G. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

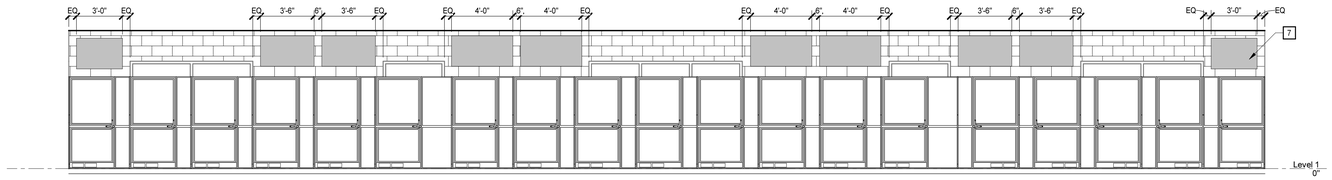
H. LOCKS: ***REQUIRED ONLY IN ROOM 118***

CASEWORK KEYNOTES

REPRESENTED BY n

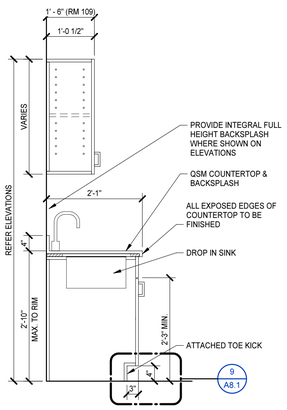
APPLIES TO DRAWINGS A8.1 - A8.nn

1	EXTEND STAINLESS STEEL BACKSPLASH TO WALL CABINETS
2	ADA CABINET WITH ATTACHED TOE-KICK
3	RECTANGULAR CLOSURE PANEL TO MATCH CABINETS
4	SUPPORT BRACKET
5	SIDE SPLASH
6	SOLID SURFACE COUNTERTOP AND BACKSPLASH
7	ACOUSTIC WALL PANELS, PAINTED IN FIELD
8	RECTANGULAR STAINLESS STEEL CLOSURE PANEL
9	3/4" RECTANGULAR STAINLESS STEEL PANEL



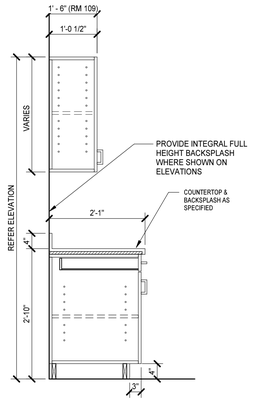
16 A0.00 A8.1 ACOUSTIC WALL PANELS - RM 106 (BID ADDITIVE)

1/4" = 1'-0"



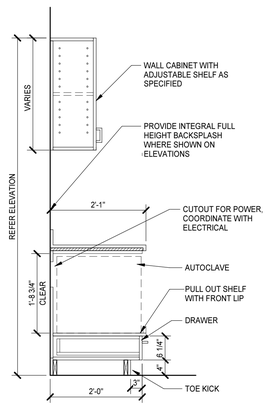
13 A8.1 A8.1 TYPICAL ADA CABINET SECTION

3/4" = 1'-0"



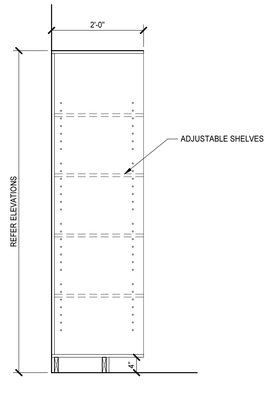
12 A8.1 A8.1 TYPICAL CABINET SECTION

3/4" = 1'-0"



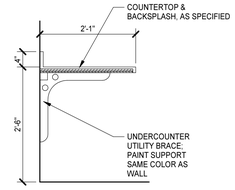
11 A8.1 A8.1 CABINET SECTION

3/4" = 1'-0"



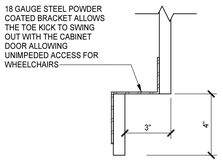
10 A8.1 A8.1 TYPICAL TALL CABINET SECTION

3/4" = 1'-0"



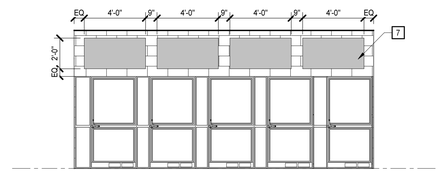
14 TYP A8.1 COUNTERTOP SECTION

3/4" = 1'-0"



9 TYP A8.1 DETAIL - ACCESSIBLE TOE KICK

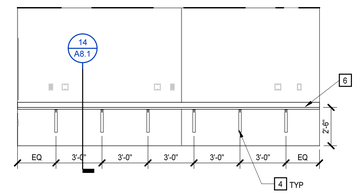
3" = 1'-0"



15 A0.00 A8.1 TYPICAL ACOUSTIC WALL PANELS (BID ADDITIVE)

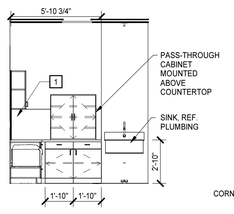
1/4" = 1'-0"

PANELS SHALL BE INSTALLED BEHIND KENNELS IN ROOMS: 105, 110, 111, 115



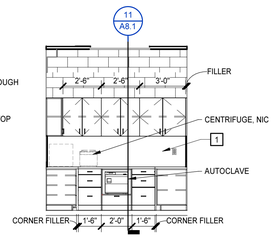
8 112 WARDENS

1/4" = 1'-0"



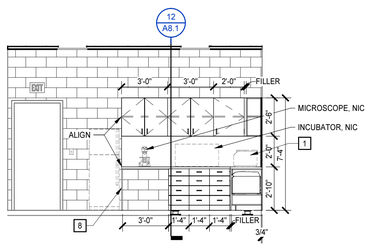
7 121 VET - SOUTH

1/4" = 1'-0"



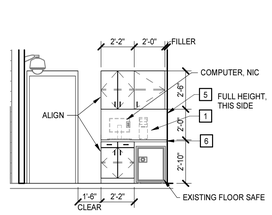
6 121 VET - EAST

1/4" = 1'-0"



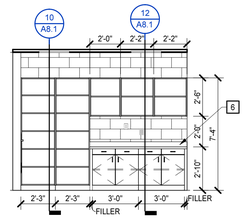
5 121 VET - NORTH

1/4" = 1'-0"



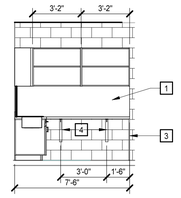
4 118 X-RAY

1/4" = 1'-0"



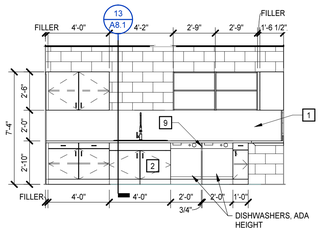
3 114 LAUNDRY

1/4" = 1'-0"



2 109 FOOD PREP/STORAGE (SOUTH)

1/4" = 1'-0"



1 109 FOOD PREP/STORAGE (EAST)

1/4" = 1'-0"

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HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

CASEWORK AND ELEVATIONS

A8.1

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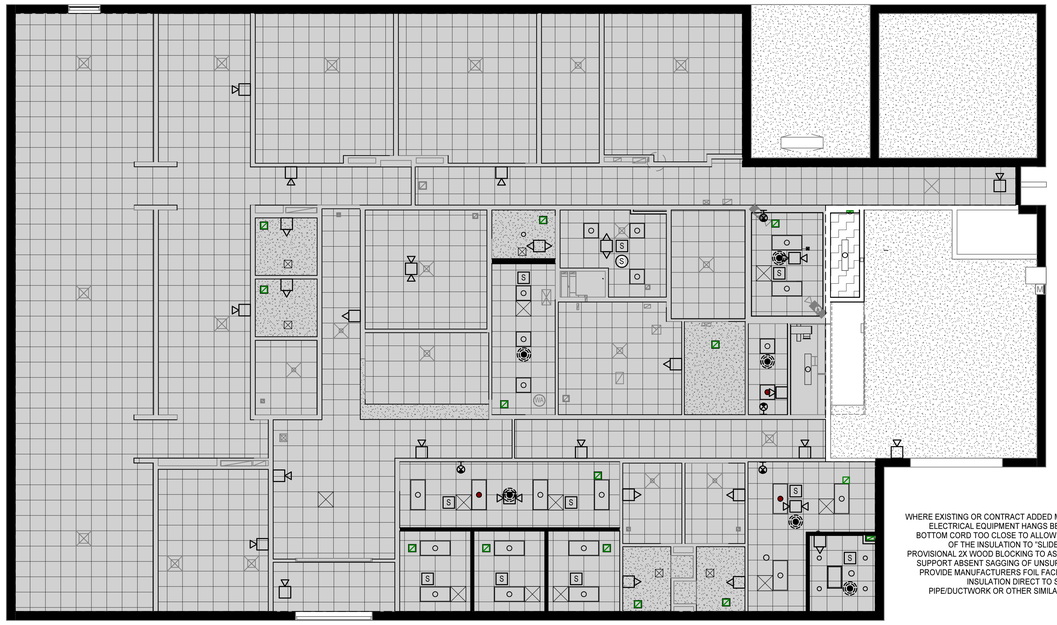
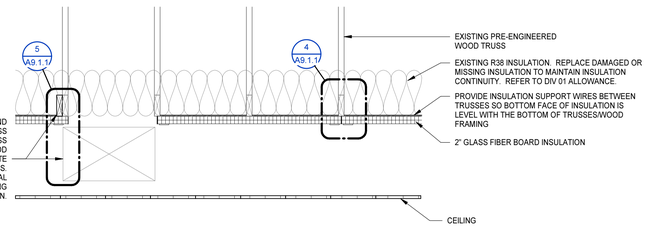


N

REFLECTED CEILING PLAN - INSULATION WORK
1/8" = 1'-0"

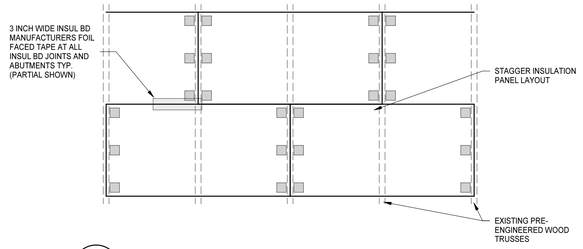
WHERE EXISTING OR CONTRACT ADDED MECHANICAL AND ELECTRICAL EQUIPMENT HANGS BELOW THE TRUSS BOTTOM CORD TOO CLOSE TO ALLOW FULL THICKNESS OF THE INSULATION TO "SLIDE THROUGH," ADD PROVISIONAL 2X WOOD BLOCKING TO ASSURE ADEQUATE SUPPORT ABSENT SAGGING OF UNSUPPORTED EDGES. PROVIDE MANUFACTURERS FOIL FACED TAPE TO SEAL INSULATION DIRECT TO SUCH OFFENDING PIPE/DUCTWORK OR OTHER SIMILAR OBSTRUCTION.

--

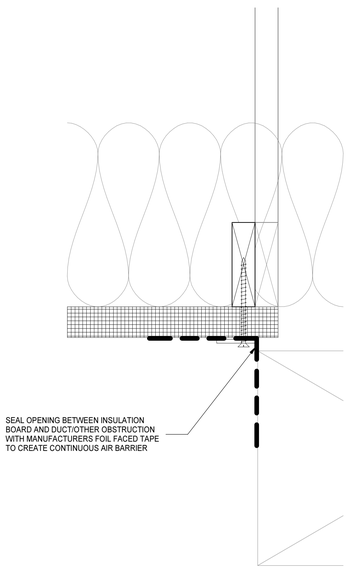


3 DETAIL
A9.1.1 3/4" = 1'-0"

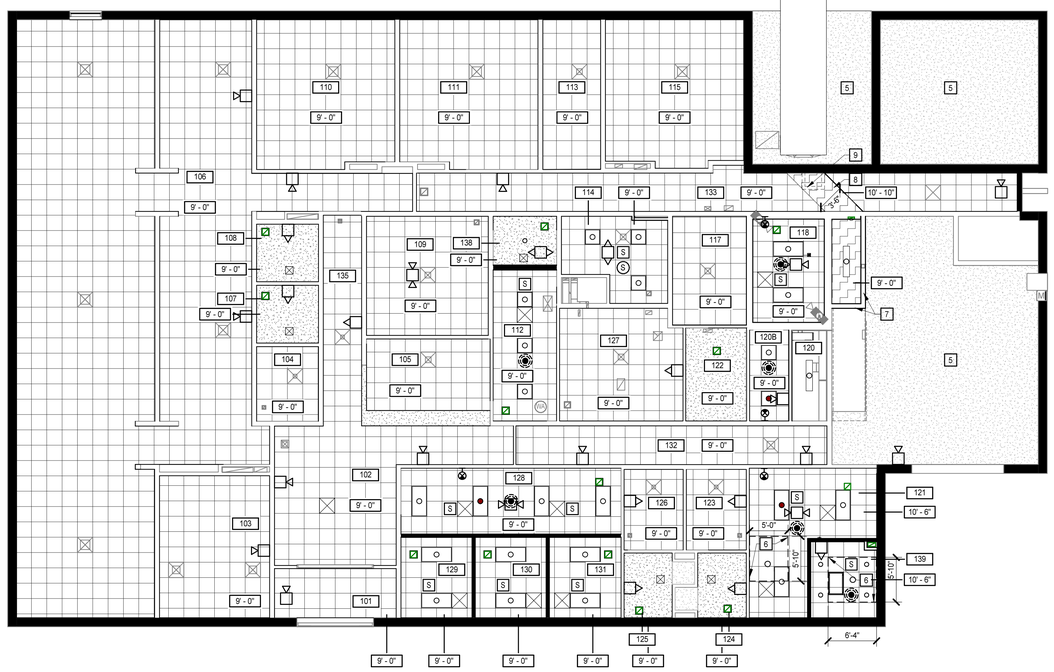
SLIT / CUT INSULATION BOARD AS REQUIRED TO SLIDE INTO PLACE AND FIT TIGHT AROUND THE FOLLOWING BUT NOT LIMITED TO; SUSPENDED CEILING WIRE TIES, DUCT SUPPORT STRAPS, THREADED ROD, UNISTRUT AND OTHER SIMILAR MECHANICAL AND ELECTRICAL EQUIPMENT HANGERS. SEAL CUTS AND RESULTING PENETRATIONS THAT ARE NEEDED IN THE INSULATION WITH INSULATION MANUFACTURERS FOIL FACED TAPE TO CREATE AIR TIGHTNESS.



6 REFLECTED VIEW - PANEL LAYOUT
A9.1.1 3/4" = 1'-0"

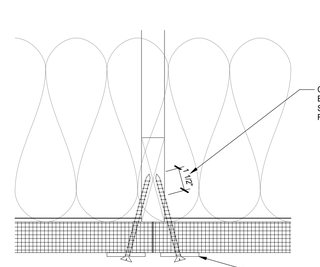


5 DETAIL
A9.1.1 A9.1.1 3" = 1'-0"



N

FIRST FLOOR PLAN
1/8" = 1'-0"



4 DETAIL
A9.1.1 A9.1.1 3" = 1'-0"

REFLECTED CEILING PLAN LEGEND
APPLIES TO DRAWINGS A9.1.1

REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

- A101 / nn'-nn" — SPACE NUMBER / CEILING HEIGHT, AFF UNO
- INTERIOR APPLICATIONS: GYPSUM BOARD CEILING
- EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 1 HR RATED HORIZONTAL SHAFT WALL (X2)
- INSTALL 2" GLASS FIBER INSULATION BOARD AGAINST EXISTING STRUCTURE.
- AP — ACCESS PANEL
- WITH OPENING — EXTERIOR WALL
- WITH OPENING — INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
- WITH OPENING — INTERIOR WALL/PARTITION TO CAP ABOVE OR TERMINATES ADJACENT TO A RATED HORIZONTAL ASSEMBLY
- WITH OPENING — INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES
- INTERIOR WALL/PARTITION TO UNDERSIDE OF CEILING
- EXISTING TO REMAIN, VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

A. ALL CEILING HEIGHTS SHALL BE 9'-0" AFF UNLESS INDICATED OTHERWISE.

B. DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.

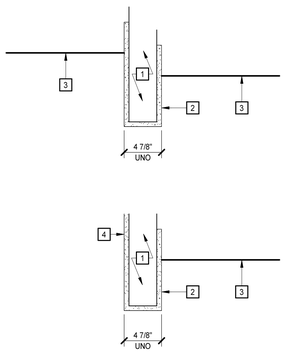
C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

D. REINSTALL ALL CEILING ELEMENTS REMOVED FOR INSULATION INSTALLATION AND CEILING REPLACEMENT.

REFLECTED CEILING PLAN KEYNOTES
REPRESENTED BY n

APPLIES TO DRAWINGS A9.1.1

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
5	EXISTING CEILING TO REMAIN
6	PROVIDE SLOTTED METAL FRAMING ABOVE CEILING FOR SURGICAL LIGHTS
7	EXTEND WALLS UP TO HORIZONTAL SHAFTWALL FOR CONTINUOUS RATING ENCLOSURE
8	PROVIDE HORIZONTAL SHAFT WALL ENCLOSING WAGD PIPING ABOVE CEILING
9	PROVIDE P7-1 WALLS FROM HORIZONTAL SHAFT WALL TO ROOF TO ENCLOSE PIPING



BULKHEAD DETAILS
NO SCALE

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PROJECT NO: 615225
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REVISIONS	
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REFLECTED CEILING PLAN - FIRST FLOOR

A9.1.1

8/18/2025 12:47:34 PM

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".

2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTHS (F'c), OF 3,500 PSI

3. TARGET AIR ENTRAINMENT, ±1.5%. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED.

4. DRY UNIT WEIGHT ±5 PCF. AGGREGATES TO CONFORM TO ASTM C33 FOR NORMAL WEIGHT CONCRETE (NWC) AND ASTM C330 FOR LIGHT WEIGHT CONCRETE (LWC).

5. CONCRETE BUILDING ELEMENTS IDENTIFIED WITH EXPOSURE CATEGORY F3 REQUIRE LIMITATIONS ON CEMENTITIOUS MATERIALS AS FOLLOWS:

• CEMENTITIOUS MATERIAL	MAX % OF TOTAL CEMENTITIOUS MATERIALS BY MASS
• FLY ASH (ASTM C618)	25
• SLAG CEMENT (ASTM C989)	50
• SILICA FUME (ASTM C1240)	10
• TOTAL FLY ASH, OTHER POZZOLANS AND SILICA FUME	35
• TOTAL FLY ASH, OTHER POZZOLANS, SILICA FUME AND SLAG	50

6. COMBINED AGGREGATE GRADING SHALL BE AS FOLLOWS:

   - FOR COARSE AGGREGATE WITH 1 1/2" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 18% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.
   - FOR COARSE AGGREGATE WITH 3/4" OR 1" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 22% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.

7. CONCRETE MIXTURE PROPORTIONS SHALL BE ESTABLISHED IN ACCORDANCE WITH ARTICLE 4.2.3 OF ACI 301 OR BY AN ALTERNATIVE METHOD ACCEPTABLE TO THE ENGINEER OF RECORD. EACH MIX DESIGN SHALL IDENTIFY THE INTENDED LOCATION OF USE.

8. REINFORCING STEEL SHALL BE AS FOLLOWS:

   - REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED
   - WELDED WIRE FABRIC: ASTM A1064, SHEET TYPE ONLY

RENOVATION

1. EXISTING CONSTRUCTION INDICATED ON THE STRUCTURAL DRAWINGS IS BASED ON INFORMATION OBTAINED FROM THE ORIGINAL DESIGN DRAWINGS AND ON LIMITED OBSERVATIONS OF EXISTING CONDITIONS. THIS INFORMATION. INCLUDING STRUCTURAL COMPONENT TYPE, SIZE AND ORIENTATION HAS NOT BEEN CONFIRMED IN ALL CASES, AND MAY NOT MATCH "AS-BUILT" EXISTING CONSTRUCTION. ALL EXISTING CONDITIONS AND DIMENSIONS RELATING TO THE NEW WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ELEMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

2. EXISTING CONSTRUCTION IS INDICATED USING A LIGHTER LINE WEIGHT THAN NEW CONSTRUCTION IN PLANS AND SECTIONS.

COLD FORM STEEL FRAMING

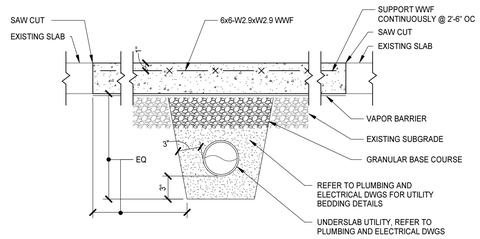
1. ALL STRUCTURAL COLD FORMED STEEL FRAMING (CFSF) SHALL COMPLY WITH AISI'S "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".

2. CFSF-S (STRUCTURAL): INCLUDES ALL EXTERIOR WALLS, SOFFITS, BULKHEADS, TRUSSES, RAFTERS, JOISTS AND CEILING JOISTS (IF SELF-SUPPORTING). PROVIDE ENGINEERING DESIGN OF ALL CFSF-S, AND SUBMIT DESIGN CALCULATIONS, ERECTION DRAWINGS AND DETAIL DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA. REFER TO SECTION 054000 FOR ADDITIONAL INFORMATION.

3. CFSF-NS (NON-STRUCTURAL): INCLUDES INTERIOR NON-LOAD BEARING STUD WALLS AND SUSPENDED CEILING FRAMING SYSTEM. REFER TO SECTION 092216 FOR ADDITIONAL INFORMATION.

4. ALL FRAMING MEMBERS, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEET HAVING A GALVANIZED COATING IN ACCORDANCE WITH ASTM A653.

5. ALL C - SHAPED FRAMING MEMBERS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1 5/8 INCHES UNO.



DETAIL AT UTILITY TRENCH

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HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

GENERAL STRUCTURAL INFORMATION

S0.0.1

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ABBREVIATIONS

@	AT	EX	EXISTING	PC	PRECAST
AAV	AIR ADMITTANCE VALVE	EXP	EXPANSION	PCF	POUNDS PER CUBIC FOOT
ABV	ABOVE	FCO	FLOOR CLEANOUT	PD	PUMP DISCHARGE
AC-X	AIR COMPRESSOR DESIGNATION	FD	FLOOR DRAIN	PLUMB	PLUMBING
ADJ	ADJUSTABLE	FDC	FIRE DEPARTMENT CONNECTION	PLYWD	PLYWOOD
ADNL	ADDITIONAL	FF	FINISHED FLOOR	POLY	POLYETHYLENE
AFF	ABOVE FINISHED FLOOR	FFE	FINISHED FLOOR ELEVATION	PPT	PRESSURE PRESERVATIVE TREATED
AFG	ABOVE FINISHED GRADE	FG	FINISHED GRADE	PREFAB	PREFABRICATE(D)
AHU	AIR HANDLING UNIT	FH	FIRE HYDRANT	PROJ	PROJECT
ALT	ALTERNATE	FHC	FIRE HOSE CABINET	PSF	POUNDS PER SQUARE FOOT
ALUM	ALUMINUM	FHS	FIRE HOSE STATION	PSI	POUNDS PER SQUARE INCH
AP	ACCESS PANEL	FHVC	FIRE HOSE VALVE CABINET	PV	PROPANE VENT
APPR	APPROXIMATE	FIX	FIXTURE	PVC	POLYVINYL CHLORIDE
ARCH	ARCHITECTURAL	FLR	FLOOR	PVMT	PAVEMENT
AUTO	AUTOMATIC	FLSHG	FLASHING	R	RISER
AVG	AVERAGE	FOR	FUEL OIL RETURN	RAD	RADIUS
BFF	BELOW FINISHED FLOOR	FOS	FUEL OIL SUPPLY	RCP-X	RECIRCULATION PUMP DESIGNATION
BFG	BELOW FINISHED GRADE	FOV	FUEL OIL VENT	RD	ROOF DRAIN (BOTTOM OUTLET)
BLDG	BUILDING	FS	FLOOR SINK	RDS	ROOF DRAIN (SIDE OUTLET)
BO	BOTTOM OF	FSD	FOUNDATION SUB-DRAIN	REF	REFERENCE
BOT	BOTTOM	FT	FOOT OR FEET	REQD	REQUIRED
BSMT	BASEMENT	FVC	FIRE VALVE CABINET	REQMT	REQUIREMENTS
BTWN	BETWEEN	G	GAS	RL	RAIN LEADER
CA	COMPRESSED AIR	GCO	GRADE CLEANOUT	RM	ROOM
CI	CAST IRON	GWH	GAS WATER HEATER	RO	ROUGH OPENING
CIP	CAST-IN-PLACE CONCRETE	HB	HOSE BIBB	RV	RADON VENT
CL	CENTERLINE	HORIZ	HORIZONTAL	S	SOUTH
CLG	CEILING	HP	HORSEPOWER	SAN	SANITARY
CLR	CLEAR	HR-X	HOSE REEL DESIGNATION	SCH	SCHEDULE
CMP	CORRUGATED METAL PIPE	HTG	HEATING	SD	STORM DRAINAGE PIPING
CNTR	COUNTER	HW	HOT WATER	SDN	STORM DRAIN NOZZLE
CO	CLEANOUT	HWR	HOT WATER RETURN	SF	SQUARE FOOT/FEET
COL	COLUMN	HWS	HOT WATER SUPPLY	SHT	SHEET
CONC	CONCRETE	ID	INSIDE DIAMETER	SIM	SIMILAR
CONDS	CONDENSATE	IN	INCH	SLT	SEALANT
CONSTR	CONSTRUCT(ION)	INSUL	INSULATE OR INSULATION	SOG	SLAB ON GRADE
CONT	CONTINUATION	INV	INVERT	SP	SUMP PUMP
CONTR	CONTRACT(-OR)	JAN	JANITOR	SPEC	SPECIFICATION
CORR	CORRIDOR	KIT	KITCHEN	SPR	SPRINKLER
CP	CIRCULATING PUMP	KW	KITCHEN WASTE	SQ	SQUARE
CR	CLASSROOM	LAB	LABORATORY	SRD	SECONDARY ROOF DRAIN
CT	COOLING TOWER	LAV	LAVATORY	SS	STAINLESS STEEL
CU	COPPER	LBS	POUNDS	SSD	SECONDARY STORM DRAINAGE PIPING
CU FT	CUBIC FEET	LF	LINEAR FOOT (FEET)	STD	STANDARD
CU YD	CUBIC YARD	LP	PROPANE	STL	STEEL
CW	COLD WATER	LPV	PROPANE VENT	STOR	STORAGE
DB	DRY BULB	MATL	MATERIAL	STRUCT	STRUCTURAL
DCW	DOMESTIC COLD WATER	MAX	MAXIMUM	SUSP	SUSPENDED
DEMO	DEMOLISH OR DEMOLITION	MECH	MECHANICAL	TD	TRENCH DRAIN
DF	DRINKING FOUNTAIN	MED	MEDIUM	THK	THICK(-NESS)
DHR	DOMESTIC HOT WATER RETURN	MFR	MANUFACTURER	TLT	TOILET
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MH	MANHOLE	TMV	THERMOSTATIC MIXING VALVE
DHW	DOMESTIC HOT WATER	MIN	MINIMUM	TOSL	TOP OF SLAB
DHW(140)	DOMESTIC HOT WATER (140°)	MISC	MISCELLANEOUS	TW	DOMESTIC TEMPERED WATER (90° F)
DI	DROP INLET	MTD	MOUNTED	TYP	TYPICAL
DIA	DIAMETER	N	NORTH	UG	UNDERGROUND
DIP	DUCTILE IRON PIPE	N/A	NOT APPLICABLE/AVAILABLE	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DN	DOWN	NC	NORMALLY CLOSED	V	VENT
DR-X	COMPRESSED AIR DRYER DESIGNATION	NG	NATURAL GAS	VAC	VACUUM
DS	DOWNSPOUT	NGV	NATURAL GAS VENT	VB	VACUUM BREAKER
DT	DRAIN TILE	NIC	NOT IN CONTRACT	VERT	VERTICAL
DTL	DETAIL	NO	NORMALLY OPEN	VIF	VERIFY IN FIELD
DTW	DOMESTIC TEMPERED WATER	NO., (#)	NUMBER	VTR	VENT THROUGH ROOF
DWG	DRAWING	NOM	NOMINAL	W	WEST
DWP	DOMESTIC WATER BOOSTER PUMP	O2	OXYGEN	W/	WITH
E	EAST	OC	ON CENTER	W/O	WITHOUT
ED	EMERGENCY SECONDARY ROOF DRAIN	OD	OUTSIDE DIAMETER	WAGD	WASTE ANESTHETIC GAS DISPOSAL
ELEC	ELECTRICAL	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WB	WATER HAMMER ARRESTER
ELEV	ELEVATION	OFF	OFFICE	WC	WATER CLOSET
EPBD	ELECTRICAL PANELBOARD	OH	OVERHEAD	WCO	WALL CLEANOUT
EQ	EQUAL	OPNG	OPENING	WSHP	WATER SOURCE HEAT PUMP
EQUIP	EQUIPMENT	OPP	OPPOSITE	WWF	WELDED WIRE FABRIC
ETR	EXISTING TO REMAIN	OSD	OPEN SITE DRAIN	WWM	WELDED WIRE MESH
EWC	ELECTRIC WATER COOLER	OXY	OXYGEN	XFMR	TRANSFORMER
EWH	ELECTRIC WATER HEATER				

GRAPHICS SYMBOLS LEGEND

- X" XXX — PIPE WITH SIZE AND SERVICE
- FLOW IN DIRECTION OF ARROW
- 1/8" FT — PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- PIPE CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- UNION
- CONCENTRIC PIPE REDUCTION
- CO — END OF LINE CLEANOUT PLUG
- CO — FLOOR CLEANOUT
- WCO — WALL CLEANOUT
- CO (GCO) — YARD CLEANOUT (CLEANOUT TO GRADE)
- FD-1 — FLOOR DRAIN WITH TAG
- FS-1 — FLOOR SINK WITH TAG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- A — WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)
- FS — FLOW SWITCH
- TEMPERATURE/PRESSURE PLUG
- VALVE
- VALVE IN RISER
- G — GAS COCK
- VENTURI FLOW METER
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID OPERATED VALVE
- T&P — TEMPERATURE AND PRESSURE RELIEF VALVE
- BACKWATER VALVE
- HOSE BIBB OR WALL HYDRANT
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- PUMP

- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- **SECTION WHERE CUT**: A — SECTION LETTER; P6.1 — DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 — ENLARGED PLAN NUMBER; P6.1 — DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 — DETAIL NUMBER; P6.1 — DRAWING WHERE DETAIL IS INDICATED
- **SANITARY RISER TAG**: S1 — SANITARY RISER IDENTIFIER; P6.1 — DRAWING WHERE SANITARY RISER IS TAGGED
- **DOMESTIC RISER TAG**: D1 — DOMESTIC RISER IDENTIFIER; P6.1 — DRAWING WHERE DOMESTIC RISER IS TAGGED

1 DETAIL TITLE
1/4"=1'-0"
P2.2 P6.2 P2.3 P2.4
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED
- DRAWING WHERE DETAIL IS CUT
- ADDITIONAL DRAWING REFERENCES

S1 SANITARY RISER DIAGRAM
1/4"=1'-0"
P2.2 P4.2 P2.3 P2.4
- SANITARY RISER DIAGRAM IDENTIFIER
- DRAWING WHERE SANITARY RISER IS INDICATED
- DRAWING WHERE SANITARY RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

D1 DOMESTIC RISER DIAGRAM
1/4"=1'-0"
P2.2 P5.2 P2.3 P2.4
- DOMESTIC RISER DIAGRAM IDENTIFIER
- DRAWING WHERE DOMESTIC RISER IS INDICATED
- DRAWING WHERE DOMESTIC RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

G1 FUEL GAS RISER DIAGRAM
1/4"=1'-0"
P2.2 P5.2 P2.3 P2.4
- FUEL GAS RISER DIAGRAM IDENTIFIER
- DRAWING WHERE FUEL GAS RISER IS INDICATED
- DRAWING WHERE FUEL GAS RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.

C. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.

D. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.

E. REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.

F. OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.

G. INSTALL ALL DRAINAGE PATTERN FITTINGS AND PIPING IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.

H. PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS.

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HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS

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LEGENDS, ABBREVIATIONS AND GENERAL NOTES

P0.1

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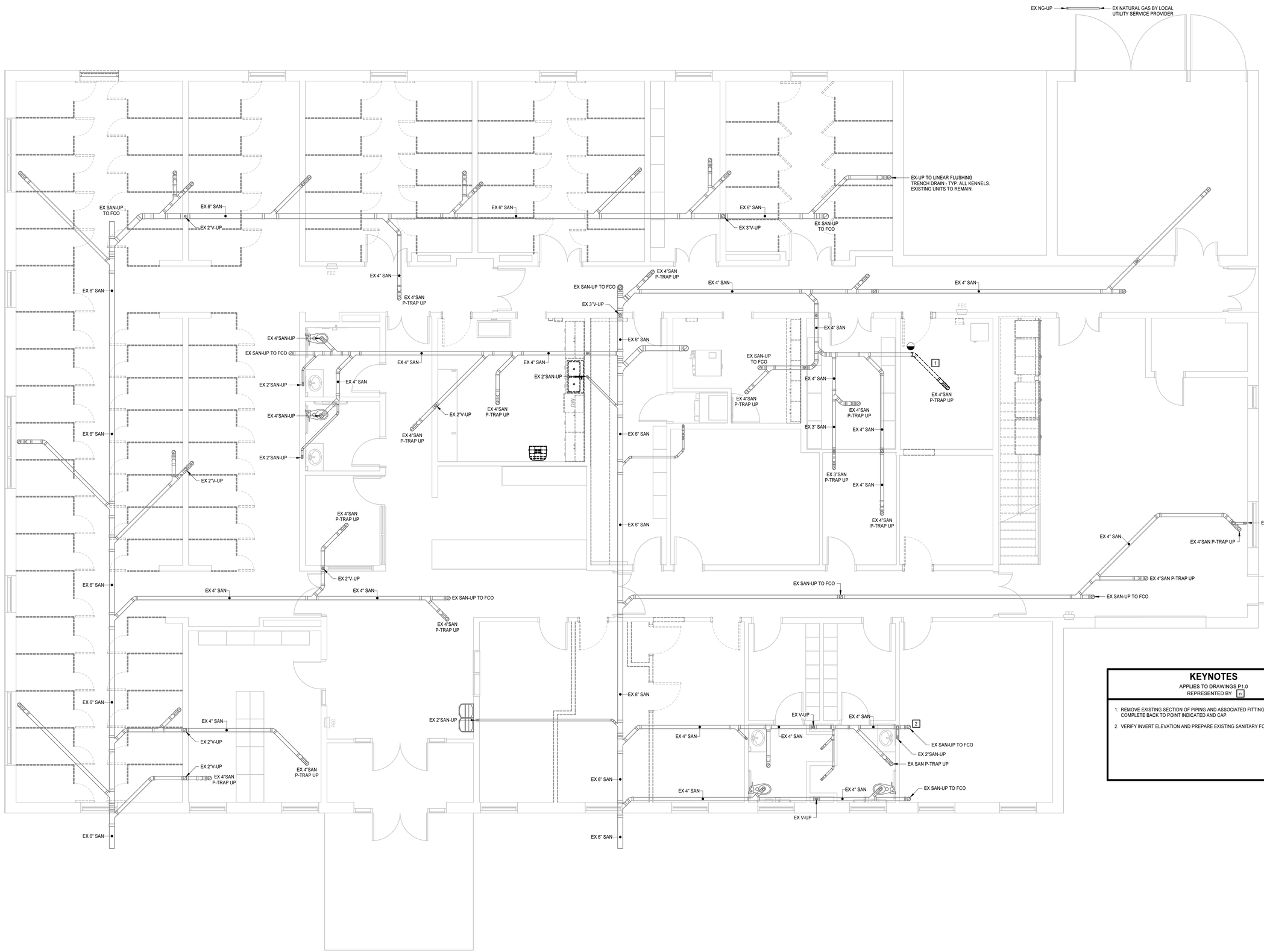

KEYNOTES

APPLIES TO DRAWINGS P1.0
REPRESENTED BY [n]

1. REMOVE EXISTING SECTION OF PIPING AND ASSOCIATED FITTINGS AND ACCESSORIES COMPLETE BACK TO POINT INDICATED AND CAP.
2. VERIFY INVERT ELEVATION AND PREPARE EXISTING SANITARY FOR NEW CONNECTION.

FOUNDATION PLAN - DEMOLITION - PLUMBING
1/4" = 1'-0"

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

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FOUNDATION PLAN - DEMOLITION - PLUMBING

P1.0

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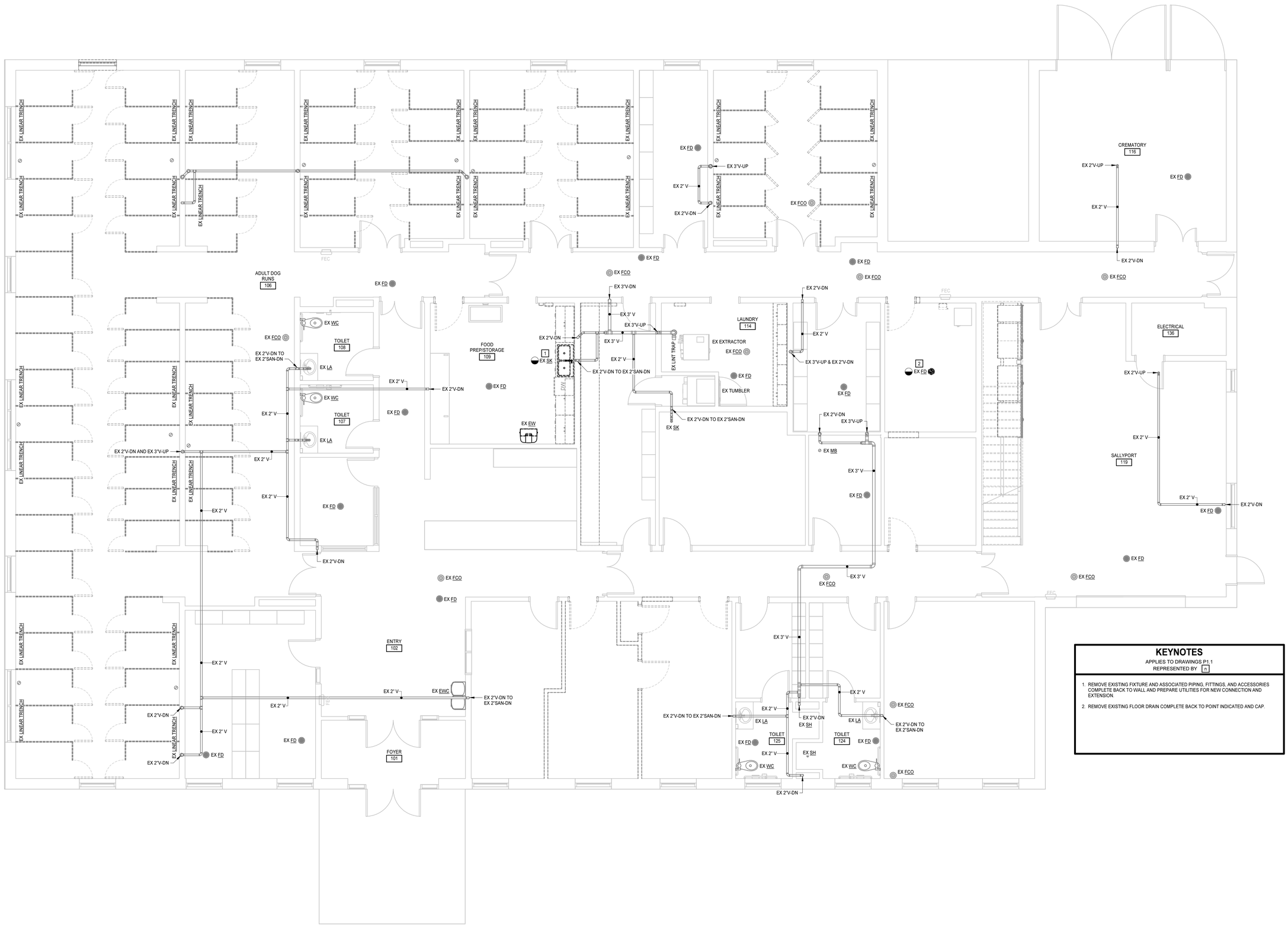

KEYNOTES

APPLIES TO DRAWINGS P1.1
REPRESENTED BY n

1. REMOVE EXISTING FIXTURE AND ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO WALL AND PREPARE UTILITIES FOR NEW CONNECTION AND EXTENSION.
2. REMOVE EXISTING FLOOR DRAIN COMPLETE BACK TO POINT INDICATED AND CAP.

N

FIRST FLOOR PLAN - DEMOLITION - SANITARY

1/4" = 1'-0"

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

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FIRST FLOOR PLAN - DEMOLITION - SANITARY

P1.1

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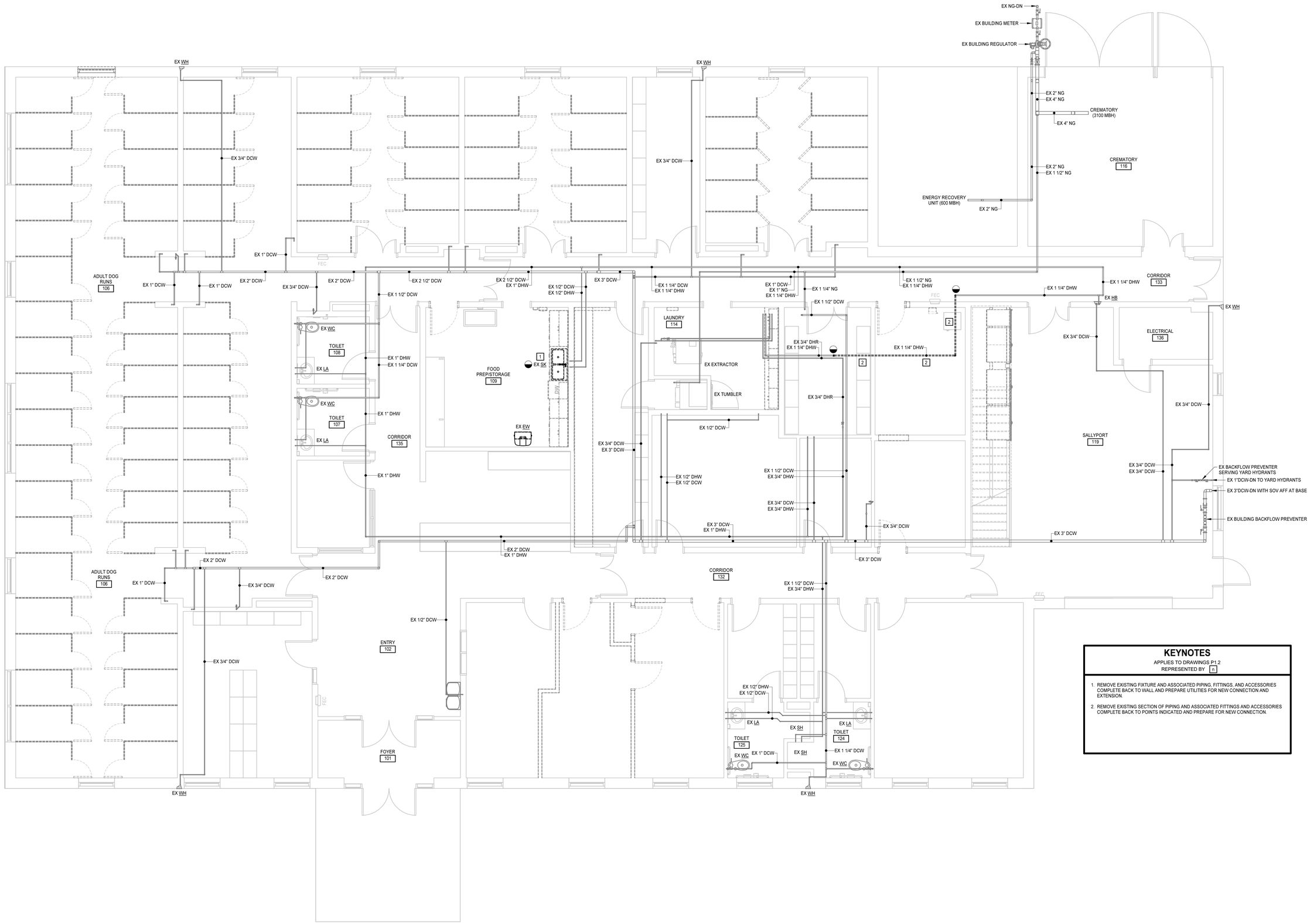

KEYNOTES

APPLIES TO DRAWINGS P1.2
REPRESENTED BY [n]

1. REMOVE EXISTING FIXTURE AND ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO WALL AND PREPARE UTILITIES FOR NEW CONNECTION AND EXTENSION.
2. REMOVE EXISTING SECTION OF PIPING AND ASSOCIATED FITTINGS AND ACCESSORIES COMPLETE BACK TO POINTS INDICATED AND PREPARE FOR NEW CONNECTION.

N

FIRST FLOOR PLAN - DEMOLITION - DOMESTIC

1/4" = 1'-0"

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

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FIRST FLOOR PLAN - DEMOLITION - DOMESTIC

P1.2

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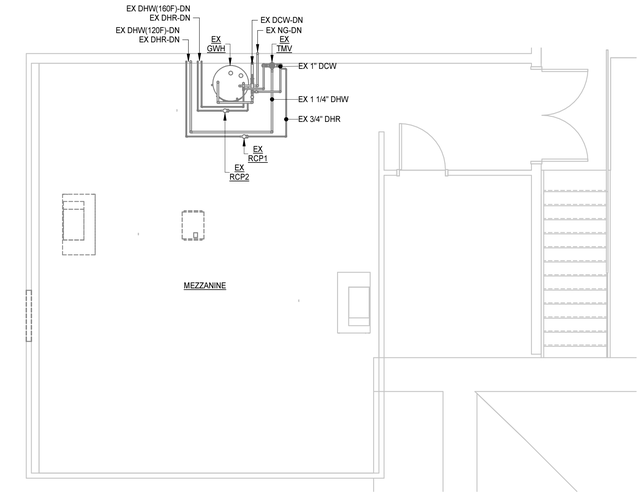

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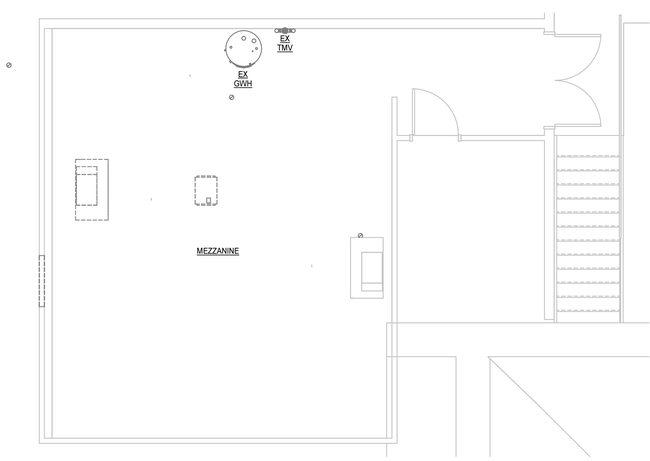
MEZZANINE PLAN - DEMOLITION - DOMESTIC

1/4" = 1'-0"



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MEZZANINE PLAN - DEMOLITION - SANITARY

1/4" = 1'-0"

0' 1' 2' 4' 8'

1/4" = 1'-0"

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MEZZANINE PLANS - DEMOLITION

P1.3

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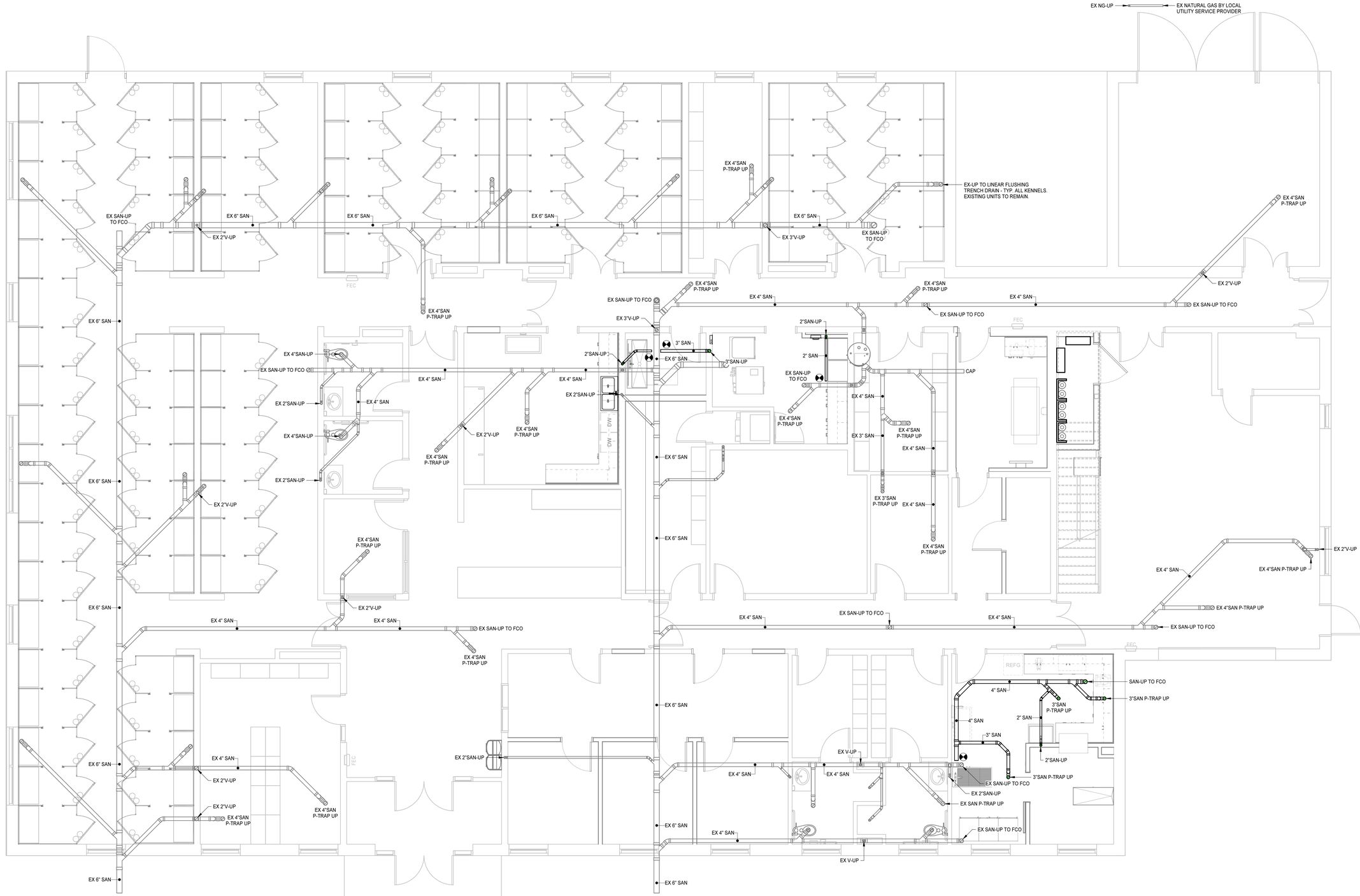

N

FOUNDATION PLAN - PLUMBING

1/4" = 1'-0"

0' 1' 2' 4' 8'

1/4" = 1'-0"

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FOUNDATION PLAN - PLUMBING

P2.0

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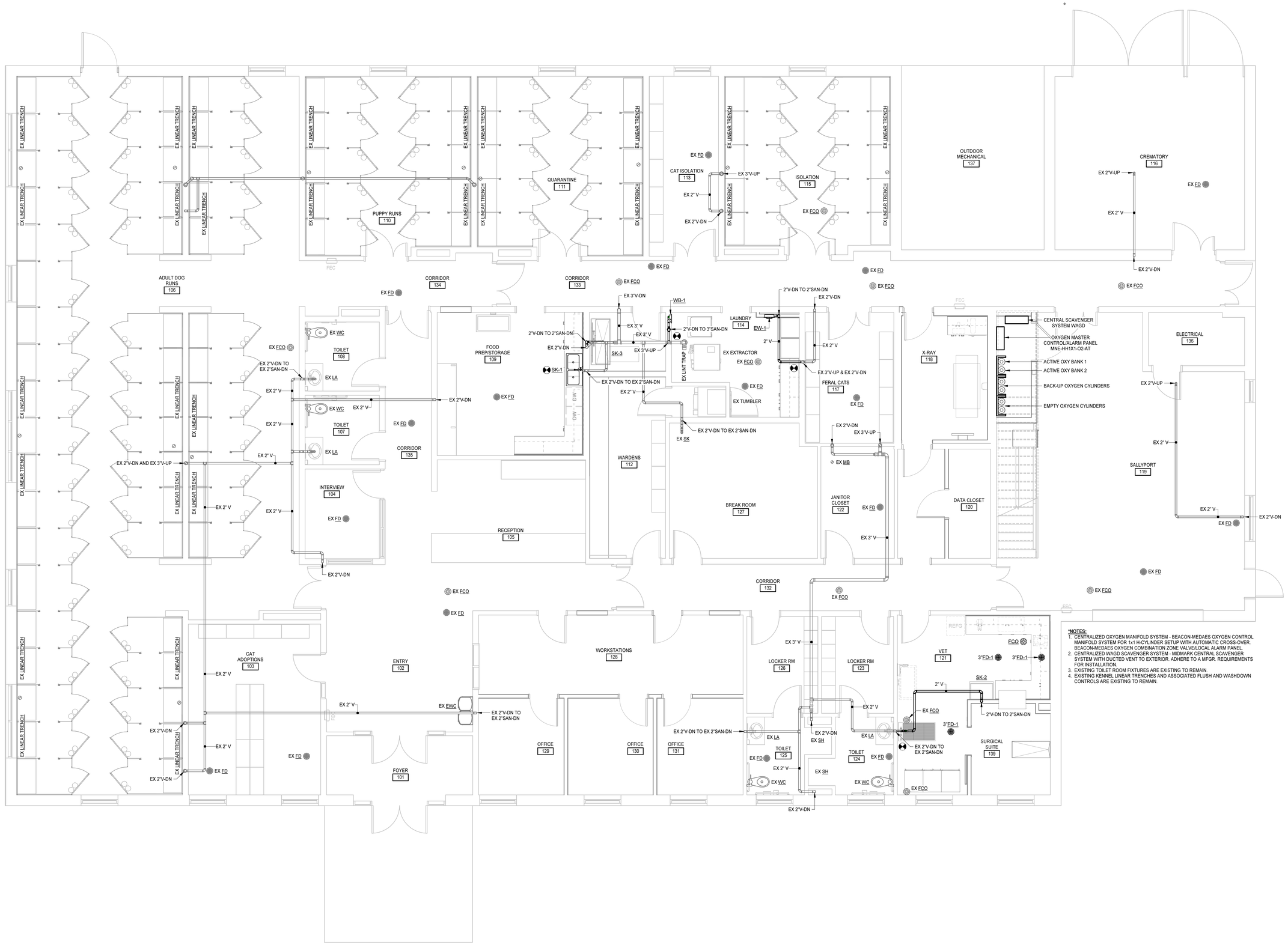

***NOTES:**

1. CENTRALIZED OXYGEN MANIFOLD SYSTEM - BEACON-MEDAES OXYGEN CONTROL MANIFOLD SYSTEM FOR 1x1 H-CYLINDER SETUP WITH AUTOMATIC CROSS-OVER. BEACON-MEDAES OXYGEN COMBINATION ZONE VALVE/LOCAL ALARM PANEL.
2. CENTRALIZED WAGD SCAVENGER SYSTEM - MIDMARK CENTRAL SCAVENGER SYSTEM WITH DUCTED VENT TO EXTERIOR. ADHERE TO A MFGR. REQUIREMENTS FOR INSTALLATION.
3. EXISTING TOILET ROOM FIXTURES ARE EXISTING TO REMAIN.
4. EXISTING KENNEL LINEAR TRENCHES AND ASSOCIATED FLUSH AND WASHDOWN CONTROLS ARE EXISTING TO REMAIN.

FIRST FLOOR PLAN - SANITARY

1/4" = 1'-0"

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

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FIRST FLOOR PLAN - SANITARY

P2.1

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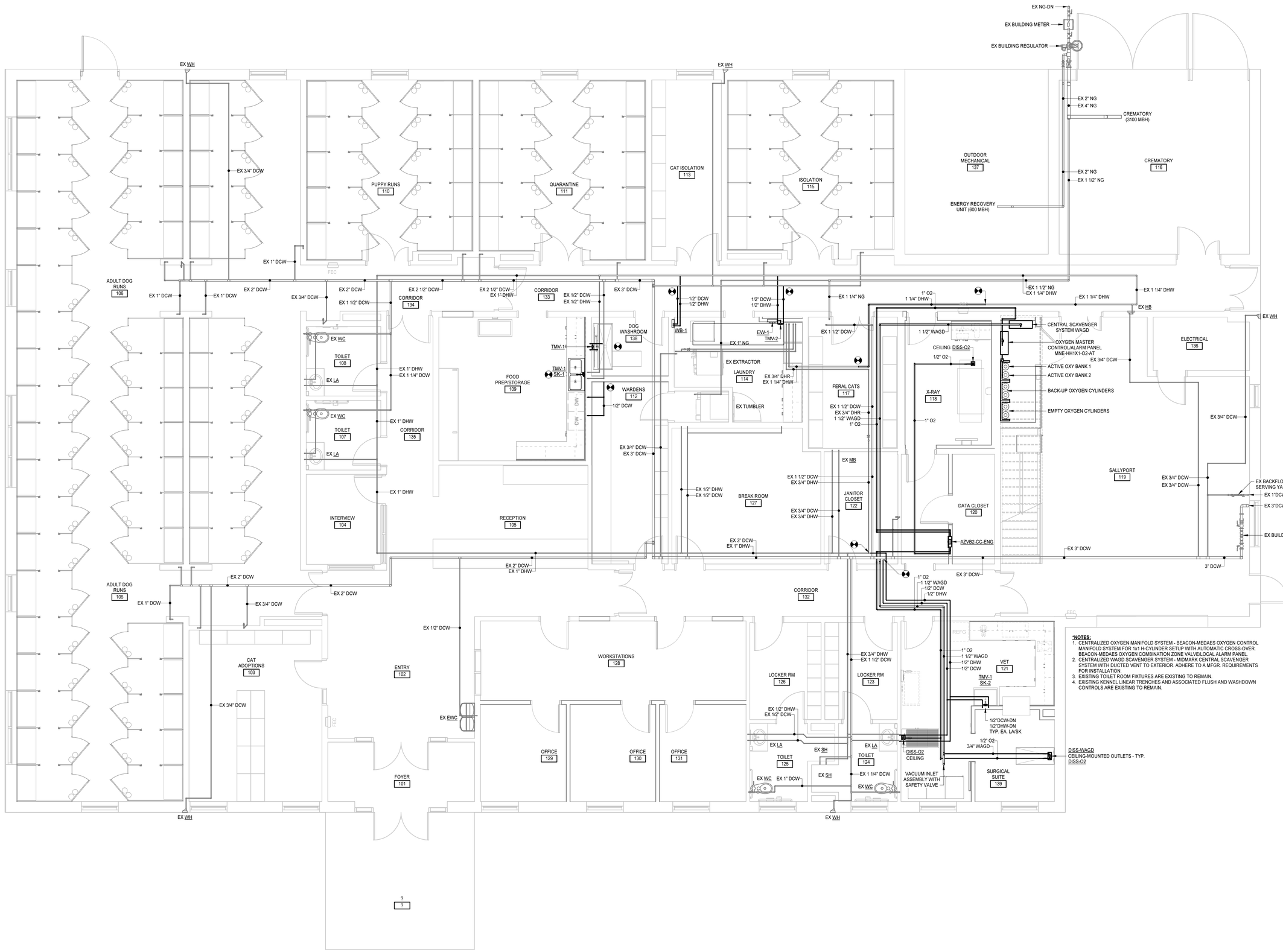

NOTES:

1. CENTRALIZED OXYGEN MANIFOLD SYSTEM - BEACON-MEDAES OXYGEN CONTROL MANIFOLD SYSTEM FOR 1x1 H-CYLINDER SETUP WITH AUTOMATIC CROSS-OVER. BEACON-MEDAES OXYGEN COMBINATION ZONE VALVE/LOCAL ALARM PANEL.
2. CENTRALIZED WAGD SCAVENGER SYSTEM - MIDMARK CENTRAL SCAVENGER SYSTEM WITH DUCTED VENT TO EXTERIOR. ADHERE TO A MFGR. REQUIREMENTS FOR INSTALLATION.
3. EXISTING TOILET ROOM FIXTURES ARE EXISTING TO REMAIN.
4. EXISTING KENNEL LINEAR TRENCHES AND ASSOCIATED FLUSH AND WASHDOWN CONTROLS ARE EXISTING TO REMAIN.

FIRST FLOOR PLAN - DOMESTIC

1/4" = 1'-0"

0' 1' 2' 4' 8'

1/4" = 1'-0"

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COMMONWEALTH OF VIRGINIA
DAVID T. WHATELY
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08/18/25
PROFESSIONAL ENGINEER

HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS

DATE	DESCRIPTION

FIRST FLOOR PLAN - DOMESTIC

P2.2

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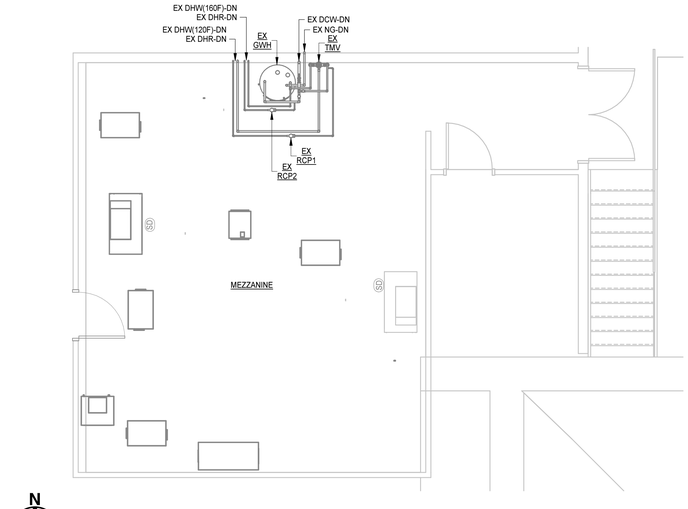

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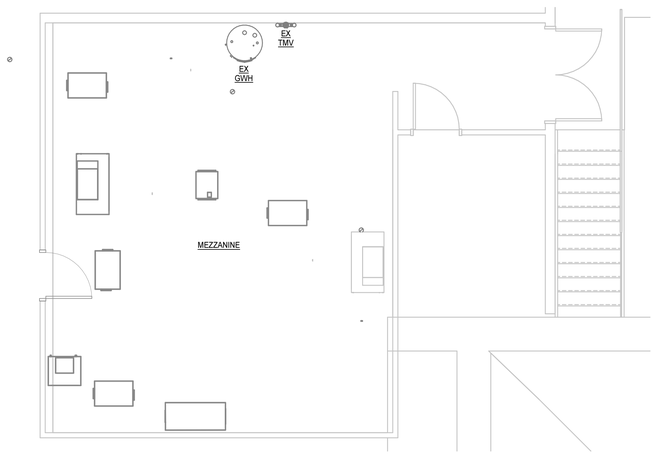
MEZZANINE PLAN - DOMESTIC

1/4" = 1'-0"



N

MEZZANINE PLAN - SANITARY

1/4" = 1'-0"

0' 1' 2' 4' 8'

1/4" = 1'-0"

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MEZZANINE PLANS

P2.3

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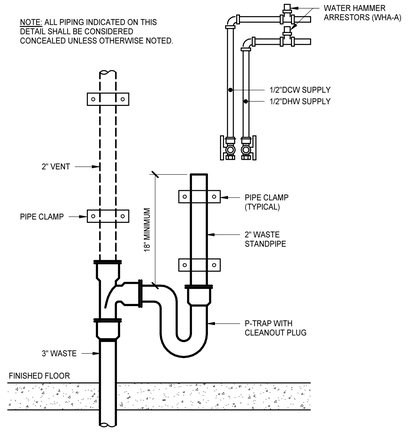
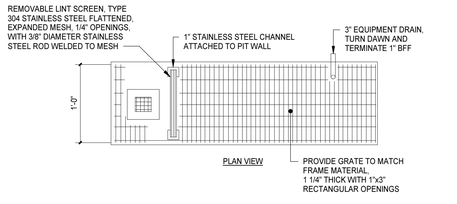


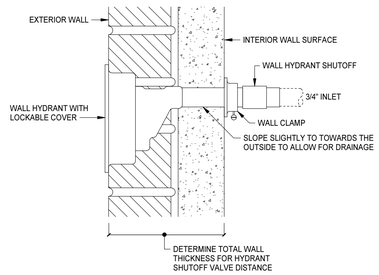
WASHING MACHINE STANDPIPE DRAIN DETAIL

NO SCALE



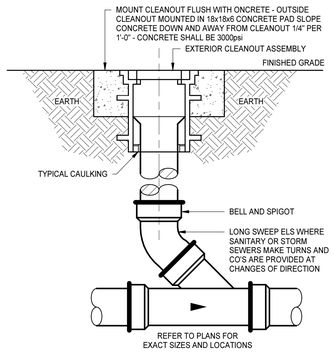
LAUNDRY EXTRACTOR TRENCH DRAIN DETAIL (TD-2)

NO SCALE



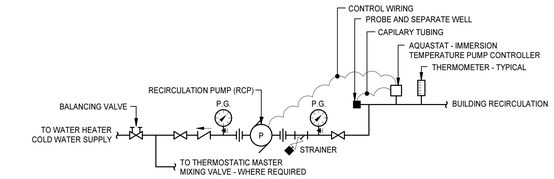
EXTERIOR WALL HYDRANT DETAIL

NO SCALE



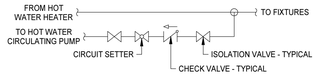
EXTERIOR YARD CLEANOUT DETAIL

NO SCALE



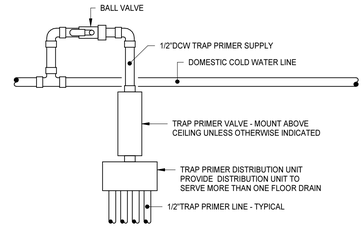
CIRCULATION PUMP DETAIL

NO SCALE

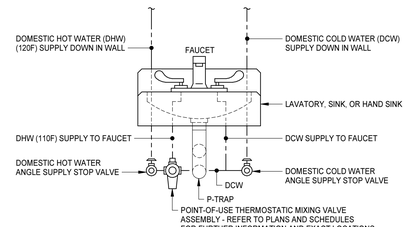


HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL

NO SCALE



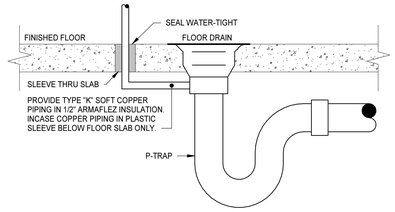
NOTES:
1. PRIMERS, VALVES, AND ASSOCIATED PIPING SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
2. PROVIDE DISTRIBUTION UNIT SIZED FOR NUMBER OF DRAINS TO BE SERVED BY EACH INDIVIDUAL PRIMER.
3. DISTRIBUTION UNIT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.



FINISHED FLOOR

LAVATORY, SINK, OR HAND SINK DETAIL

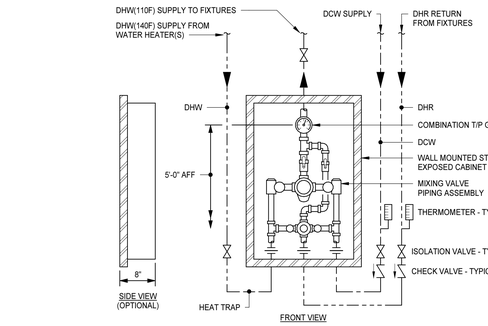
NO SCALE



MECHANICAL PRIMER DETAIL

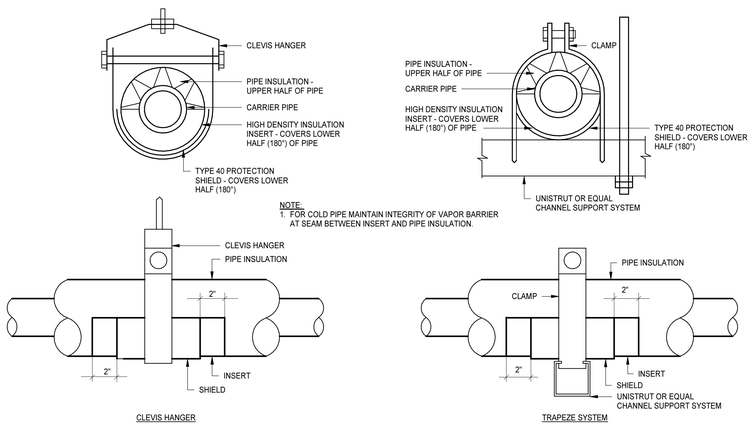
TRAP PRIMER ASSEMBLY DETAILS

NO SCALE



THERMOSTATIC MIXING VALVE DETAIL

NO SCALE



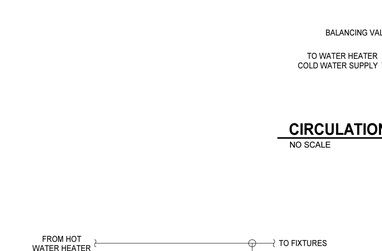
PIPE SUPPORT AND THERMAL SHIELD DETAILS

NO SCALE

NOTES:
1. WATER HAMMER ARRESTOR.
2. BALL VALVE. VALVE SIZE SHALL BE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").
3. BRANCH PIPE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").

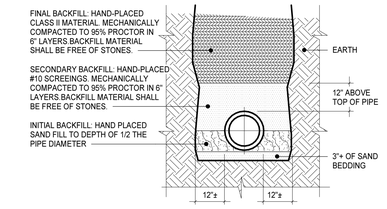
WATER HAMMER ARRESTOR DETAIL

NO SCALE



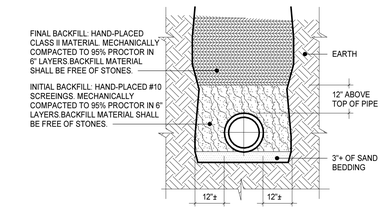
WALL CLEANOUT DETAIL

NO SCALE



PVC PIPE BEDDING DETAIL

NO SCALE



CAST IRON PIPE BEDDING DETAIL

NO SCALE

P.D.I. WATER HAMMER ARRESTORS						
LENGTH OF PIPE	NOMINAL PIPE DIAMETERS					
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25'	A	A	B	C	D	E
50'	A	B	C	D	E	F
75'	B	C	D	AE	F	EF
100'	C	D	E	F	CF	FF
125'	C	D	F	AF	EF	EFF
150'	D	E	F	DF	FF	FFF

WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE REMOTE EQUIPMENT, WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE OR HAMMER SOURCE.

THE SIZE AND QUANTITY OF WATER HAMMER ARRESTORS TO BE INSTALLED IN BRANCH LINES IS SHOWN IN TABLE. WHEN FLOR PRESSURE OF 65 PSIG TO 85 PSIG ARE USED. THE NEXT LARGER SIZE SHOULD BE SELECTED.

WATER HAMMER ARRESTOR CAPACITIES			
CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
1/2"	A	1 TO 11	5
3/4"	B	12 TO 32	7
1"	C	33 TO 60	11
1"	D	61 TO 113	20
1"	E	114 TO 154	29
1"	F	155 TO 330	34

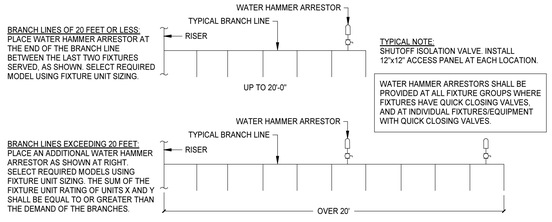
NOTE: MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

SHOCK ABSORBER SELECTION		
CODE	PDI SIZE	FIXTURE UNITS
SA-1	A	1-11
SA-2	B	12-32
SA-3	C	33-60
SA-4	D	61-113
SA-5	E	114-154
SA-6	F	155-330

SHOCK ABSORBER SELECTION TABLE

WATER HAMMER ARRESTOR INSTALLATION & SIZING DETAIL

NO SCALE



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10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
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PROJECT NO: 615225
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REVISIONS	
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DETAILS

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PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	HEIGHT A.F.F.	BASIS OF DESIGN	PIPE SIZE					LEED USAGE DATA	NOTES
				COLD WATER	TEPID WATER	HOT WATER	VENT	SOIL WASTE		
EW-1	EMERGENCY EYEWASH - RECESSED WALL-MOUNTED	34" TO EYEWASH HEADS	FIXTURE: HAWS 7656WCC		1/2"		1 1/2"	1 1/2"		1, 3
SK-1	KITCHENETTE SINK - DOUBLE BOWL (ACCESSIBLE)	COUNTER MOUNTED REFER TO ARCH DWGS	FIXTURE: ELKAY LRADQ331955 FAUCET: ELKAY LKAV1061	1/2"		1/2"	1 1/2"	1 1/2"	1.80 GPM	1, 2, 4
SK-2	SCRUB SINK WITH FOOT CONTROL	RIM AT 36"	FIXTURE: ELKAY EWS3120FC FAUCET: LK395A FOOT VALVE: LK398C	1/2"		1/2"	1 1/2"	1 1/2"	2.20 GPM	2
SK-3	ANIMAL GROOMING SINK WITH RAMP AND HAIR TRAP	FLOOR-MOUNTED INTEGRAL SUPPORT LEGS	FIXTURE: SHOR-LINE ELITE 904.0702.40 FAUCET: T&S BRASS B-2278	1/2"		1/2"	1 1/2"	2"	1.15 GPM	2, 5
WB-1	WASHER BOX WITH INTEGRAL HAMMER ARRESTORS	CENTER AT 42"	FIXTURE: GUYGRAY WB200HATM	1/2"		1/2"	2"	2"		

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL CONFORM TO THE USBC AND ASAD ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. PROVIDE ASSE-1070 CERTIFIED MIXING VALVE BELOW FIXTURE ACCESSIBLE BUT CONCEALED FROM VIEW.
3. PROVIDE ASSE-1071 CERTIFIED EMERGENCY MIXING VALVE IN CEILING CONCEALED FROM VIEW DIRECTLY ABOVE FIXTURE BEING SERVED.
4. PROVIDE DISHWASHER HOOK-UP WHERE DISHWASHER IS PRESENT, CONNECT HW IN SINK BASE AND CONNECT SANITARY THRU HIGH LOOP HOSE DRAIN INTO DISHWASHER TAIL PIECE SINK DRAIN.
5. PROVIDE ANIMAL GROOMING TUB WITH RAMP ACCESS, HAIR TRAP, AND COMPLETE WASH/SPRAY FAUCET ASSEMBLY.

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	BASIS OF DESIGN		DESIGN FLOW (GPM)	FLOW RANGE (GPM)	MAX P.D. AT DESIGN FLOW (PSI)	HW SYSTEM TEMPERATURES		CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				INLET (°F)	OUTLET (°F)	INLET (IN)	OUTLET (IN)	
TMV-1	MGI CONTROLS	OMEGA ST7017	1.50	0.25 - 9.00	5.00	120	105	1/2"	1/2"	1
TMV-2	HAWS	TWBS-EWE	4.20	1.00 - 7.00	5.00	120	80	1/2"	1/2"	2

1. PROVIDE ASSE-1070 POINT OF USE THERMOSTATIC MIXING VALVE FOR ALL PUBLIC LAVATORIES AND SINKS. UNIT SHALL BE MOUNTED CONCEALED FROM VIEW BELOW FIXTURE.
2. PROVIDE ASSE-1071 EMERGENCY THERMOSTATIC MIXING VALVE LOCATED IN CEILING DIRECTLY ABOVE FIXTURE SERVED.

DRAIN AND CLEANOUT SCHEDULE

TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
FCO	JOSAM	55000	FLOOR CLEANOUT	
FD-1	JOSAM	30000-6A-VP	6" ROUND	1

1. PROVIDE TRAP PRIMER CONNECTION AND EXTENSION, SEE DETAIL.

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SCHEDULES

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ABBREVIATIONS

@	AT
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BLDG	BUILDING
CL	CENTERLINE
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUATION
CORR	CORRIDOR
CR	CLASSROOM
CU	CUBIC
CU FT	CUBIC FEET
DCW	DOMESTIC COLD WATER
DEG	DEGREE(S)
DEMO	DEMOLISH OR DEMOLITION
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DP	DRY PIPE
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
EGGH	ELECTRIC CEILING HEATER
EF	EXHAUST FAN
EH-1	EXTRA HAZARD GROUP 1
EH-2	EXTRA HAZARD GROUP 2
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXP	EXPANSION
F	FARENHEIT
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHS	FIRE HOSE STATION
FHVC	FIRE HOSE VALVE CABINET
FLR	FLOOR
FP	FIRE PROTECTION
FT	FOOT OR FEET
FVC	FIRE VALVE CABINET
GAL	GALLON(S)
GPM	GALLONS PER MINUTE
GUH	GAS-FIRED UNIT HEATER
HB	HOSE BIB
HD	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HW	HOT WATER
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATE OR INSULATION
JAN	JANITOR
KIT	KITCHEN
KW	KILOWATT(S)
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LH	LIGHT HAZARD
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NORTH
NA	NOT APPLICABLE/AVAILABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO. OR #	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OH-1	ORDINARY HAZARD GROUP 1
OH-2	ORDINARY HAZARD GROUP 2
P	PUMP
PC	PRECAST
PIV	POST INDICATOR VALVE
POLY	POLYETHYLENE
PREFAB	PREFABRICATE(D)
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	RISER
REF	REFERENCE
REQ	REQUIRED
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SD	SMOKE DAMPER
SHT	SHEET
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
STD	STANDARD
STL	STEEL
STOR	STORAGE
SW	SWITCH
T	TEMPERATURE
THK	THICK(NESS)
TLT	TOILET
TOSL	TOP OF SLAB
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UI	UNLESS UNDICATED
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT
WH	WATER HEATER

GRAPHICS SYMBOLS LEGEND

- VALVE
- GATE VALVE
- VALVE IN RISER
- CHECK VALVE
- SOLENOID VALVE (S)
- FLOW SWITCH
- PRESSURE REDUCING VALVE
- DOUBLE CHECK BACKFLOW PREVENTER
- F — FIRE PROTECTION WET SPRINKLER PIPING
- DP — FIRE PROTECTION DRY SPRINKLER PIPING
- FG — FIRE EXTINGUISHING GAS PIPING
- FIRE PROTECTION DRY SPRINKLER PIPING
- UNION
- PRESSURE GAUGE WITH GAUGE COCK
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- PIPE CAP
- 1/8"/FT — PITCH PIPE DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- FLOW IN DIRECTION OF ARROW
- CONCENTRIC PIPE REDUCTION
- ECCENTRIC PIPE REDUCTION
- PUMP
- FIRE DEPARTMENT CONNECTION
- PENDANT SPRINKLER HEAD
- CONCEALED PENDANT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- HYDRAULIC NODE
- HORIZONTAL SIDEWALL SPRINKLER HEAD

- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON LIGHT HAZARD CLASSIFICATION PROVIDING A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON ORDINARY HAZARD GROUP 1 CLASSIFICATION PROVIDING A DENSITY OF 0.15 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON ORDINARY HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.20 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF DRY SPRINKLER HEADS IS BASED ON ORDINARY HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.20GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING THAT WILL REQUIRE ORDINARY HAZARD GROUP 1 PRE-ACTION PROTECTION, BRANCHING FROM THE LINE THAT SERVES THE AREA.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 1 CLASSIFICATION PROVIDING A DENSITY OF 0.30 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.

- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- **SECTION WHERE CUT**: A / M6.1 — SECTION LETTER; DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 / M2.5 — ENLARGED PLAN NUMBER; DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 / M4.1 — DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED
- 1 / M2.2, M4.1 / M2.3, M2.4 — **DETAIL TITLE** 1/4"=1'-0" — DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED; DRAWING WHERE DETAIL IS CUT; ADDITIONAL DRAWING REFERENCES
- A / M2.2, M3.1 / M2.3, M2.4 — **SECTION TITLE** 1/4"=1'-0" — SECTION LETTER; DRAWING WHERE SECTION IS INDICATED; DRAWING WHERE SECTION IS CUT; ADDITIONAL DRAWING REFERENCES

GENERAL NOTES

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

COORDINATE THE LOCATION OF ALL SPRINKLER PIPING WITH THE WORK OF OTHER TRADES. SPRINKLER PIPING SHALL NOT BE INSTALLED WHERE ITS LOCATION INHIBITS ACCESS TO EQUIPMENT ABOVE THE CEILING, FILTER ACCESS OR INFRINGES UPON CLEARANCES DICTATED BY THE NATIONAL ELECTRIC CODE.

VERIFY DIMENSIONS AND ROUTING IN FIELD BEFORE FABRICATION OF PIPING AND FIXTURES.

REFER TO THE LIFE SAFETY PLAN FOR LOCATIONS OF FIRE AND SMOKE SEPARATION ASSEMBLIES.

REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

ADD/ RELOCATE FIRE SPRINKLERS THROUGHOUT THE SPACE BEING RENOVATED IN ACCORDANCE WITH 2021 VIRGINIA BUILDING CODE, 2019 NFPA 13 AND ALL OTHER REQUIREMENTS SET FORTH BY LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION DRAWINGS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE COMMONWEALTH OF VIRGINIA OR BY A NICET LEVEL III OR IV DESIGNER CERTIFIED IN THE FIELD OF WATER BASED SYSTEMS LAYOUT.

PIPE ALL SYSTEM DRAINS TO AN APPROVED LOCATION ON THE OUTSIDE PERIMETER OF BUILDING. DO NOT DISCHARGE DRAIN INTO A JANITORS SINK WITHOUT APPROVAL FROM PLUMBING ENGINEER.

SPRINKLER HEADS

IN SUSPENDED ACOUSTICAL CEILINGS: PROVIDE NEW FIRE SPRINKLERS AND ESCUTCHEONS THAT MATCH THE EXISTING TYPES USED IN ADJACENT SPACES.

IN CLEAN ROOM ENVIRONMENTS: INSTALL A CLEAN ROOM TYPE CONCEALED SPRINKLER IN CEILING PER MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS.

INSTALL SPRINKLERS IN CENTER OF ACOUSTICAL TILE CEILING PANELS.

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COMMONWEALTH OF VIRGINIA
DAVID T. WHATELY
Lic. No. 052209
08/18/25
PROFESSIONAL ENGINEER

HENRICO COUNTY ANIMAL SHELTER RENOVATION

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

FP0.1

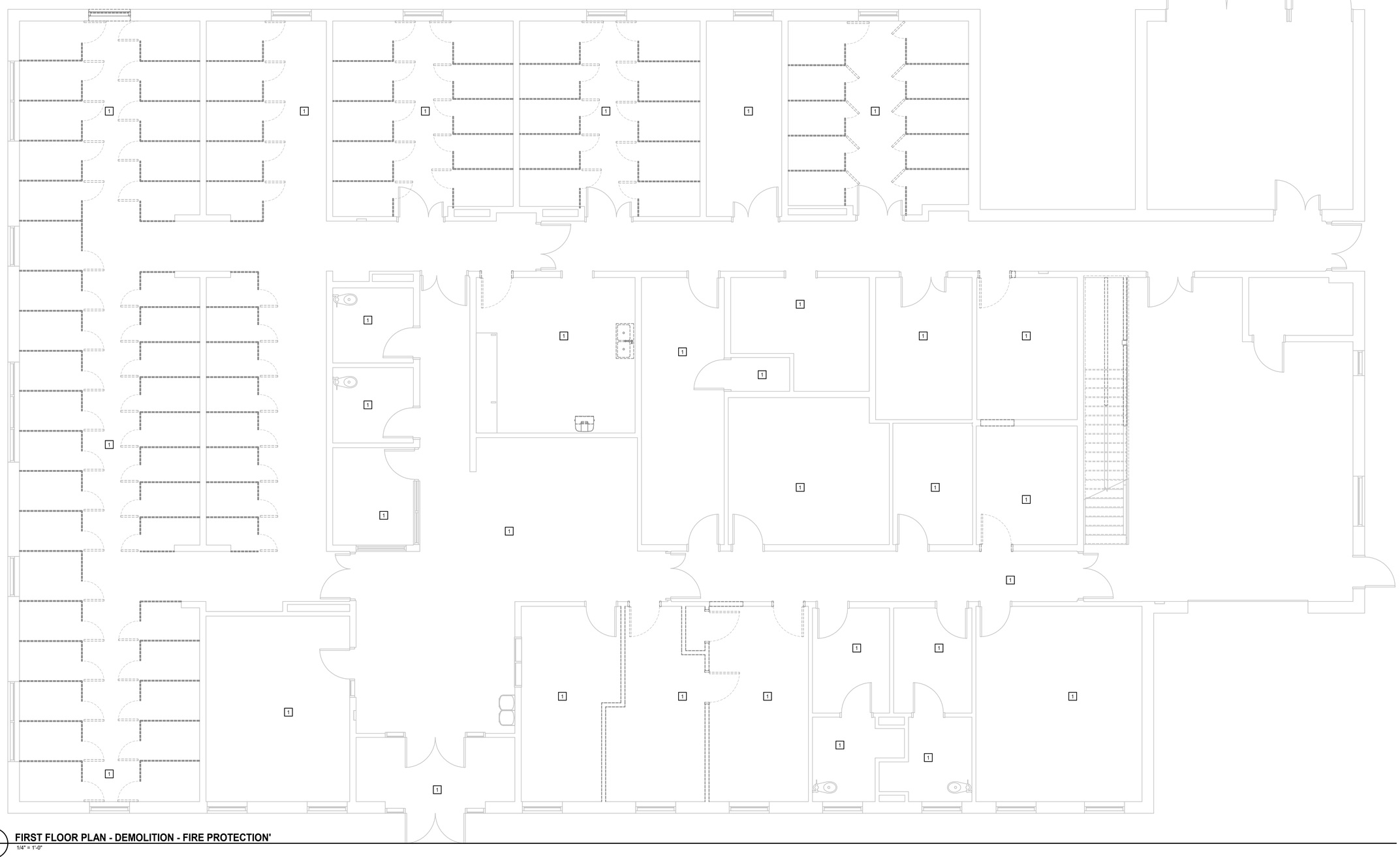
8/15/2025 3:10:51 AM

J I H G F E D C B A
1 2 3 4 5 6 7 8 9 10

FIRE PROTECTION DEMOLITION KEYNOTES

APPLIES TO DRAWINGS FP1.1
REPRESENTED BY [n]

1. REMOVE EXISTING FIRE SPRINKLERS IN THIS SPACE TO ACCOMMODATE THE REMOVAL OF CEILING.



N

FIRST FLOOR PLAN - DEMOLITION - FIRE PROTECTION'
1/4" = 1'-0"

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FIRST FLOOR PLAN - DEMOLITION - FIRE PROTECTION

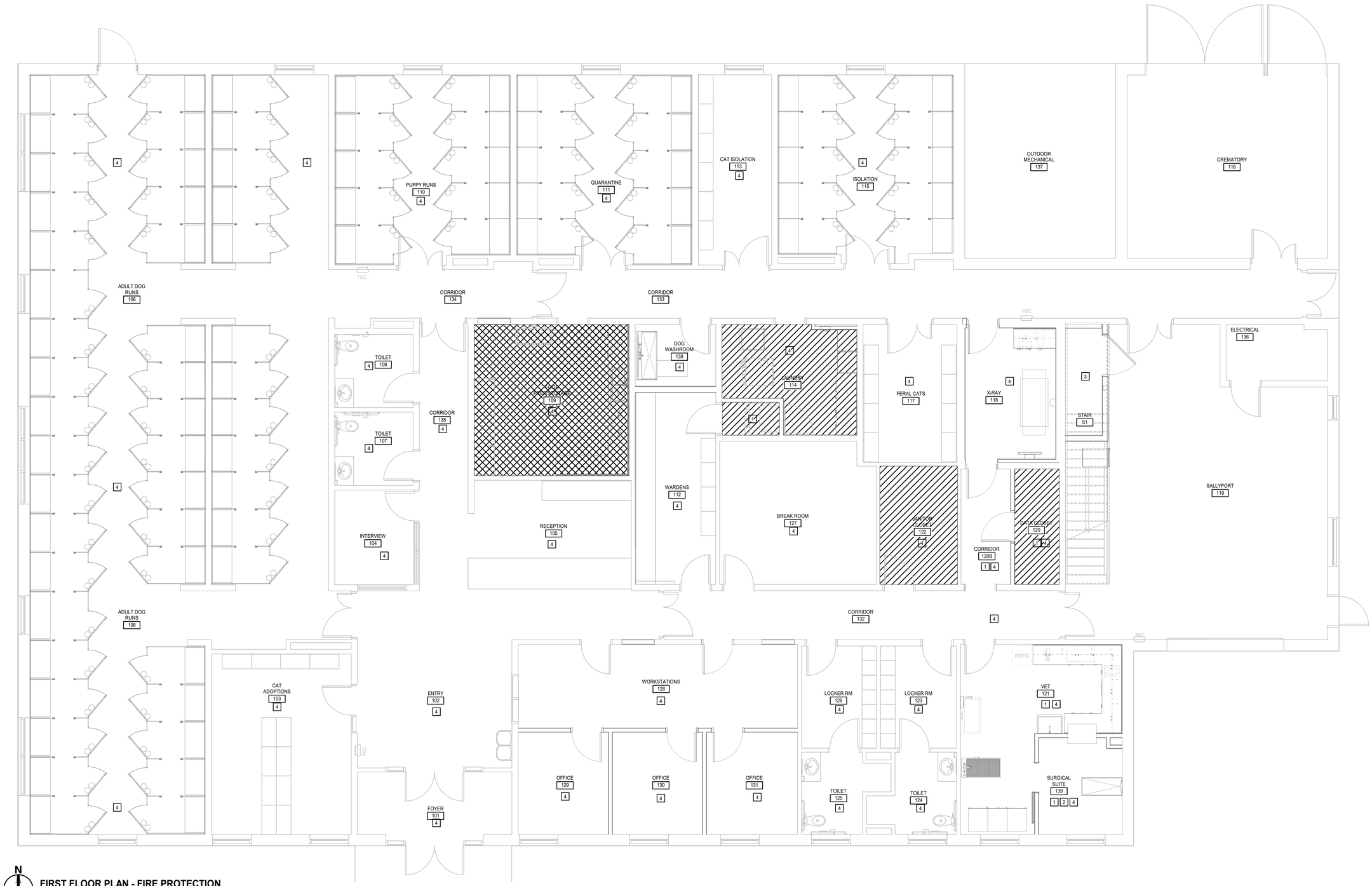
FP1.1

8/15/2025 3:10:51 AM

FIRE PROTECTION KEYNOTES

APPLIES TO DRAWINGS FP2.1
REPRESENTED BY [n]

1. ADD/ RELOCATE FIRE SPRINKLERS IN THIS SPACE TO ACCOMMODATE THE RENOVATIONS TO CEILING AND/OR WALLS IN ACCORDANCE w/ NFPA 13 REQUIREMENTS AND REGULATIONS.
2. PROVIDE CLEAN ROOM STYLE CONCEALED SPRINKLERS IN THIS SPACE.
3. PROVIDE EXTRA HAZARD COVERAGE FOR OXYGEN STORAGE ROOM UNDER STAIRS.
4. INSTALL NEW FIRE SPRINKLERS IN THIS SPACE TO ACCOMMODATE THE INSTALLATION OF NEW CEILING.



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FIRST FLOOR PLAN - FIRE PROTECTION
1/4" = 1'-0"

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

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FIRST FLOOR PLAN - FIRE PROTECTION

FP2.1

8/15/2025 3:10:52 AM

EQUIPMENT ABBREVIATIONS

AHU	AIR-HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
CCC	CLOSED-CIRCUIT COOLING TOWER
CH	CHILLER
CHWP	CHILLED WATER PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
ECH	ELECTRIC CEILING HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
F	FAN
FCU	FAN COIL UNIT
HP	HEAT PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
OAU	OUTDOOR AIR UNIT
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
RTU	ROOFTOP UNIT
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
UH	UNIT HEATER
WSHP	WATER-SOURCE HEAT PUMP

CONTROLS ABBREVIATIONS

AF	AIRFLOW
AI	ANALOG INPUT TO CONTROLLER
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

ABBREVIATIONS

A	AMPERE(S)
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
COM	COMMON
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
dBA	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPM	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
IPLV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTAGE, VOLTS
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
W	WATT(S)
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

CONTROL SYMBOL LEGEND

- CIRCULATOR OR PUMP
- MOTORIZED 2-WAY VALVE
- MOTORIZED 3-WAY VALVE
- VFD — VARIABLE FREQUENCY DRIVE
- DDC — DIRECT DIGITAL CONTROLLER
- T — THERMOSTAT
- FZ — FREEZESTAT
- C — CONTACTOR
- R — RELAY
- S — SPACE TEMPERATURE SENSOR
- T — LINE VOLTAGE THERMOSTAT
- HAND-OFF-AUTOMATIC SWITCH
- SD — DUCT-MOUNTED SMOKE DETECTOR
- TRANSFORMER
- FUSE
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- WIRING OR DEVICE PROVIDED UNDER DIVISION 23
- WIRING OR DEVICE NOT PROVIDED UNDER DIVISION 23
- WIRING CONNECTION BY DIVISION 23
- WIRING CONNECTION BY OTHERS
- NUMBER OF CONDUCTORS INDICATED BY SLASH MARKS
- MOTORIZED PARALLEL BLADE DAMPER
- MOTORIZED OPPOSED BLADE DAMPER
- MOTORIZED BUTTERFLY BLADE DAMPER
- SUPPLY, RETURN, OR EXHAUST FAN
- AIRFLOW DIRECTION
- AI / TS — CONTROL POINT INDICATOR; INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (AIR TEMPERATURE SENSOR)
- AI / TS — CONTROL POINT INDICATOR; INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (AIR TEMPERATURE SENSOR WITH AVERAGING ELEMENT)
- AI / TS — CONTROL POINT INDICATOR; INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (WATER TEMPERATURE SENSOR WITH BULB TYPE ELEMENT IN PIPING WELL)
- AI / CSR — CONTROL POINT INDICATOR; INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (CURRENT SENSING RELAY)

GRAPHIC SYMBOL LEGEND

- CORRIDOR / A101 — SPACE TAG: SPACE NAME, SPACE NUMBER, BUILDING "PART" NUMBER IN MULTI-PART BUILDING
- AHU-12 — EQUIPMENT TAG: EQUIPMENT NUMBER, EQUIPMENT ABBREVIATION
- S1 / 325 — DIFFUSER, GRILLE OR REGISTER TAG: TAG, REFER TO DIFFUSER, GRILLE AND REGISTER SCHEDULE; AIRFLOW (CFM)
- 1 / M5.1 — DETAIL TAG: DETAIL NUMBER, DRAWING WHERE DETAIL IS INDICATED
- 15 — KEYNOTE
- C — STRUCTURAL GRID LINE WITH DESIGNATION
- EXISTING TO BE REMOVED
- 1 / M2.2 / M5.1 / M2.3 / M2.4 — DETAIL TITLE; 1/4"=1'-0"; DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED; DRAWING WHERE DETAIL IS REFERENCED; ADDITIONAL DRAWING REFERENCES
- 1 / M2.2 / M4.1 / M2.3 / M2.4 — SECTION TITLE; 1/4"=1'-0"; SECTION NUMBER; DRAWING WHERE SECTION IS INDICATED; DRAWING WHERE SECTION IS REFERENCED; ADDITIONAL DRAWING REFERENCES
- 1 / M4.1 — SECTION CALLOUT: SECTION NUMBER; DRAWING WHERE SECTION IS INDICATED
- 1 / M3.1 — ENLARGED PLAN CALLOUT: ENLARGED PLAN NUMBER; DRAWING WHERE ENLARGED PLAN IS INDICATED
- MECHANICAL EQUIPMENT WITH REQUIRED SERVICE CLEARANCE INDICATED

DUCTWORK LEGEND

- 18x8 — RECTANGULAR DUCT (FIRST DIMENSION REFERS TO SIDE VIEWED)
- 18ø — ROUND DUCT SIZE
- 18/12 — FLAT OVAL DUCT SIZE
- 18ø — DOUBLE WALL, EXPOSED DUCT
- 18ø — FABRIC DUCT
- FLEXIBLE DUCTWORK
- FLEXIBLE CONNECTOR
- SD — DUCT-MOUNTED SMOKE DETECTOR
- DUCT WITH DUCT LINER
- DUCT ACCESS DOOR
- DUCT WITH END CAP
- LINEAR SLOT DIFFUSER, LENGTH AS INDICATED
- LINEAR BAR GRILLE, LENGTH AS INDICATED
- SUPPLY DIFFUSER
- RETURN OR EXHAUST GRILLE
- SUPPLY DIFFUSER WITH DIRECTIONAL BLOW, SOLID HATCH INDICATES BLANK OFF PANEL
- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- SUPPLY AIRFLOW ARROW
- RETURN OR EXHAUST AIRFLOW ARROW
- UC — DOOR UNDERCUT
- DL — DOOR LOUVER
- SENSOR WELL
- MANUAL BALANCING DAMPER IN DUCT
- FIRE DAMPER IN DUCT
- SMOKE DAMPER IN DUCT
- COMBINATION FIRE/SMOKE DAMPER IN DUCT
- SB — FIRE DAMPER WITH SECURITY BARS IN DUCT
- SB — SMOKE DAMPER WITH SECURITY BARS IN DUCT
- SB — COMBINATION FIRE/SMOKE DAMPER WITH SECURITY BARS IN DUCT
- M — MOTORIZED DAMPER IN DUCT
- SMOKE CONTROL MANUAL BALANCING DAMPER IN DUCT
- M — SMOKE CONTROL MOTORIZED DAMPER IN DUCT
- SB — SECURITY BARS IN DUCT
- AP — DUCT WITH ACCESS PANEL
- TO / AWAY — SUPPLY/MAKEUP AIR DUCT SECTIONS
- TO / AWAY — RETURN AIR DUCT SECTIONS
- TO / AWAY — EXHAUST AIR DUCT SECTIONS
- SD — SMOKE DETECTOR
- H — HUMIDITY SENSOR
- T — THERMOSTAT, LINE VOLTAGE
- T — THERMOSTAT, LOW VOLTAGE
- S — TEMPERATURE SENSOR
- C — CARBON DIOXIDE SENSOR
- CM — CARBON MONOXIDE SENSOR

PIPING LEGEND

- CO — END OF LINE CLEANOUT PLUG
- CO — CLEANOUT PLUG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- UNION
- STRAINER WITH BLOWDOWN VALVE AND 3/4" HOSE END CONNECTION
- FLEXIBLE PIPE CONNECTOR
- MA — MANUAL AIR VENT
- VALVE
- MANUAL BALANCING VALVE WITH FLOW TAPS
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- TRIPLE DUTY VALVE
- GAS COCK
- P — PRESSURE-RELIEF VALVE
- M — TWO-WAY CONTROL VALVE
- M — THREE-WAY CONTROL VALVE
- DIRECTION OF FLOW

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITIVELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.

C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.

E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT.

H. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.

I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.

J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.

L. FOR LOCATION OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.

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HENRICO ANIMAL SHELTER

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY, VA
615225

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
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LEGENDS, ABBREVIATIONS AND GENERAL NOTES

M0.1

8/15/2025 3:58:03 PM

AIR HANDLING UNIT SCHEDULE

TAG	MFR	MODEL NUMBER	SUPPLY FAN						EXHAUST FAN						OUTSIDE AIR DESIGN AIRFLOW (CFM)	ENTHALPY CORE												TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	COOLING COIL				INDIRECT GAS BURNER			ELECTRICAL DATA						WEIGHT (LBS)
			DESIGN AIRFLOW (CFM)	ESP (IN WC)	WHEEL DIAMETER (IN)	WHEEL TYPE	FAN SPEED (RPM)	MOTOR SIZE (HP)	DESIGN AIRFLOW (CFM)	ESP (IN WC)	WHEEL DIAMETER (IN)	WHEEL TYPE	FAN SPEED (RPM)	MOTOR SIZE (HP)		SUPPLY AIR				EXHAUST AIR				DESIGN AIRFLOW (CFM)								EAT		LAT		CAPACITY (BTUH)	EAT (°F)	LAT (°F)	MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)	
																SUMMER		WINTER		SUMMER		WINTER																			
																EAT	LAT	EAT	LAT	EAT	LAT	EAT	LAT																			
																(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)									
ERU-1	ENGINEERED AIR	FWX354	7,800	1.00	18.0	AF	2216	10	7,800	1.00	20.0	AF	1020	7.5	7,800	95.0	78.0	80.0	74.0	10.0	8.0	38.5	33.6	7,800	75.0	62.5	90.0	74.9	70.0	52.9	41.5	31.3	439,000	184,000	80.0	74.0	58.1	57.9	600,000	38.5	90.0	196	200	208	3	60	18,000

GENERAL NOTES:
A. DIV 23 FACTORY PROVIDED DISCONNECT SWITCH.

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	MFR	MODEL NUMBER	SERVING	SUPPLY FAN				EXHAUST FAN				ENTHALPY WHEEL												ELECTRICAL DATA					
				DESIGN AIRFLOW (CFM)	ESP (IN WC)	SPEED (RPM)	MOTOR SIZE (HP)	DESIGN AIRFLOW (CFM)	ESP (IN WC)	SPEED (RPM)	MOTOR SIZE (HP)	OUTDOOR AIR						EXHAUST AIR						MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)	WEIGHT (LBS)
												SUMMER				WINTER		SUMMER				WINTER							
												DESIGN AIRFLOW (CFM)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	DESIGN AIRFLOW (CFM)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)						
ERU-2	GREENHECK	MINICORE-10-VG-P	SURGERY SUITE	700	0.50	1147	3/4	640	0.50	1311	3/4	700	94.0	76.0	81.6	69.1	14.0	11.3	50.2	39.0	640	75.0	62.5	88.5	71.2	70.0	52.8	30.5	28.3	12.2	20	208	1	60	245

GENERAL NOTES:
A. DIV 23 FACTORY PROVIDED DISCONNECT SWITCH.

SPLIT SYSTEM HEAT PUMP INDOOR UNIT WITH ELECTRIC HEAT SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL NUMBER	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP (IN WC)	COOLING			HEAT PUMP HEATING		ELECTRIC HEAT (kW)	ELECTRICAL DATA					WEIGHT (LBS)	NOTES
							TOTAL CAPACITY (BTUH)	INDOOR EAT (°F)		CAPACITY (BTUH)	INDOOR EAT DB (°F)		MCA (A)	MOCP (A)	SERVICE				
								DB	WB						V	PH	HZ		
HP-2	MECHANICAL MEZZANINE	TRANE	TWE090	2,250	370	1.0	69,200	80.8	67.0	37,400	59.6	11.25	31.2	40	208	3	60	360	1
HP-3	MECHANICAL MEZZANINE	TRANE	TAMXB0C36	700	700	0.5	36,000	81.6	69.1	27,800	50.2	10.80	34.6	40	208	1	60	300	1, 2

GENERAL NOTES:
A. DIVISION 26 SHALL PROVIDE DISCONNECT SWITCH.

NOTES:
1. PROVIDE AUXILIARY DRAIN PAN UNDERNEATH UNIT WITH CONDENSATE OVERFLOW SENSOR INTERLOCKED WITH UNIT OPERATION.
2. PROVIDE SINGLE POINT POWER CONNECTION.

SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	AMBIENT AIR TEMPERATURE (°F)	ELECTRICAL DATA					WEIGHT (LBS)
				MCA (A)	MOCP (A)	SERVICE			
						V	PH	HZ	
COND-2	TRANE	TWA072	95.0	30	40	208	3	60	328
COND-3	TRANE	4TWV8036	95.0	45	50	208	1	60	310

GENERAL NOTES:
A. DIV 26 SHALL PROVIDE DISCONNECT SWITCH.

FAN SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN WC)	FAN WHEEL (RPM)	DRIVE TYPE	SONES	CONTROL METHOD	MOTOR (HP)	ELECTRICAL DATA			WEIGHT (LBS)
												(V)	(PH)	(HZ)	
EF-1	GREENHECK	SQ-100-VG	GENERAL EXHAUST	INLINE CENTRIFUGAL	650	0.30	1070	DIRECT	9	BAS SCHEDULE	1/4	120	1	60	56

GENERAL NOTES:
A. PROVIDE MOTORIZED BACKDRAFT DAMPER.

DEHUMIDIFIER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	AIRFLOW (CFM)	ESP (IN WC)	CONTROL METHOD	ELECTRICAL DATA				WEIGHT (LBS)
							FLA (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)	
DH-1	APRILAIRE	E130	HP-1	270	0.20	BAS ENABLE / DISABLE	7.7	120	1	60	98
DH-2A	APRILAIRE	E130	HP-2	270	0.20	BAS ENABLE / DISABLE	7.7	120	1	60	98
DH-2B	APRILAIRE	E130	HP-2	270	0.20	BAS ENABLE / DISABLE	7.7	120	1	60	98
DH-3	APRILAIRE	E130	HP-3	270	0.20	BAS ENABLE / DISABLE	7.7	120	1	60	98

GENERAL NOTES:
A. UNITS TO HAVE SELF-CONTAINED CONTROLS.
B. SET TO 50% RELATIVE HUMIDITY.
C. PROVIDE CONDENSATE OVERFLOW SENSOR IN AUXILIARY DRAIN PAN INTERLOCKED WITH UNIT OPERATION.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	MOUNTING STYLE	NECK SIZE	FACE SIZE	MAX NC LEVEL
FFU-1	PRICE	FFU-BTR	LAY-IN	10ø	36x24	
S1	PRICE	ASCD	SURFACE	6ø	12x12	30
S2	PRICE	ASCD	LAY-IN	8ø	24x24	30
S3	PRICE	ASCD	SURFACE	8ø	12x12	30
S4	PRICE	ASCD	LAY-IN	10ø	24x24	30
S6	PRICE	635-F	SURFACE	14x6	16x8	30
R1	PRICE	635-TB	LAY-IN	10x10	12x12	30
R2	PRICE	635-F	SURFACE	10x10	12x12	30
E1	PRICE	635	LAY-IN	10x10	14x14	30

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HENRICO ANIMAL SHELTER

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY, VA
615225

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS

DATE	DESCRIPTION

SCHEDULES

M0.2

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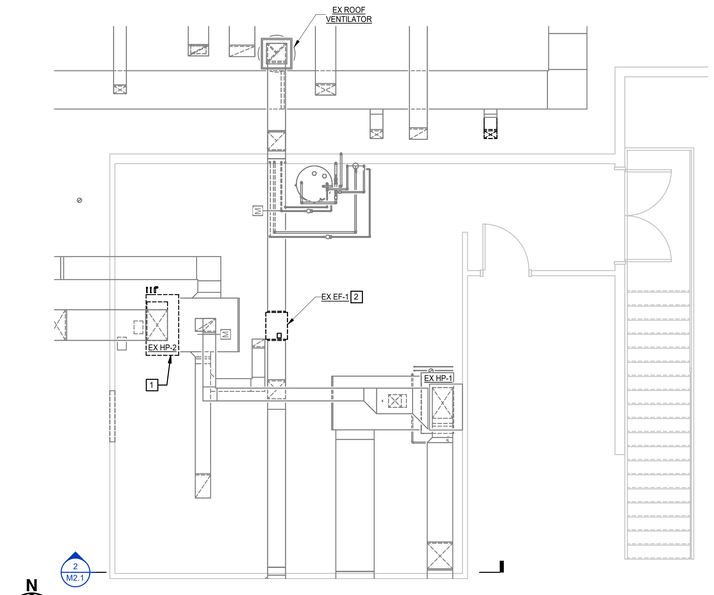
KEYNOTES

APPLIES TO THIS DRAWING

1 REMOVE HP-2 AND ALL ASSOCIATED CONTROLS AND PIPING.

2 REMOVE EF-1 AND ALL ASSOCIATED CONTROLS.



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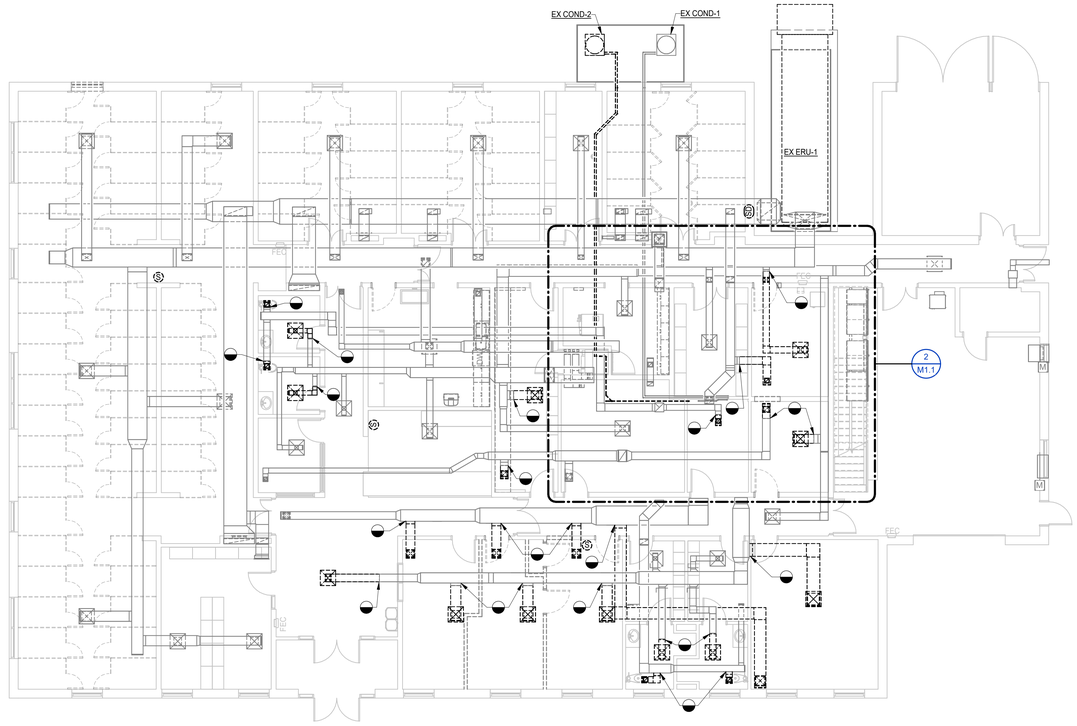
ENLARGED PLAN - MECHANICAL MEZZANINE - DEMOLITION

1/4" = 1'-0"



N

FIRST FLOOR PLAN - DEMOLITION

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

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FIRST FLOOR PLAN - DEMOLITION

M1.1

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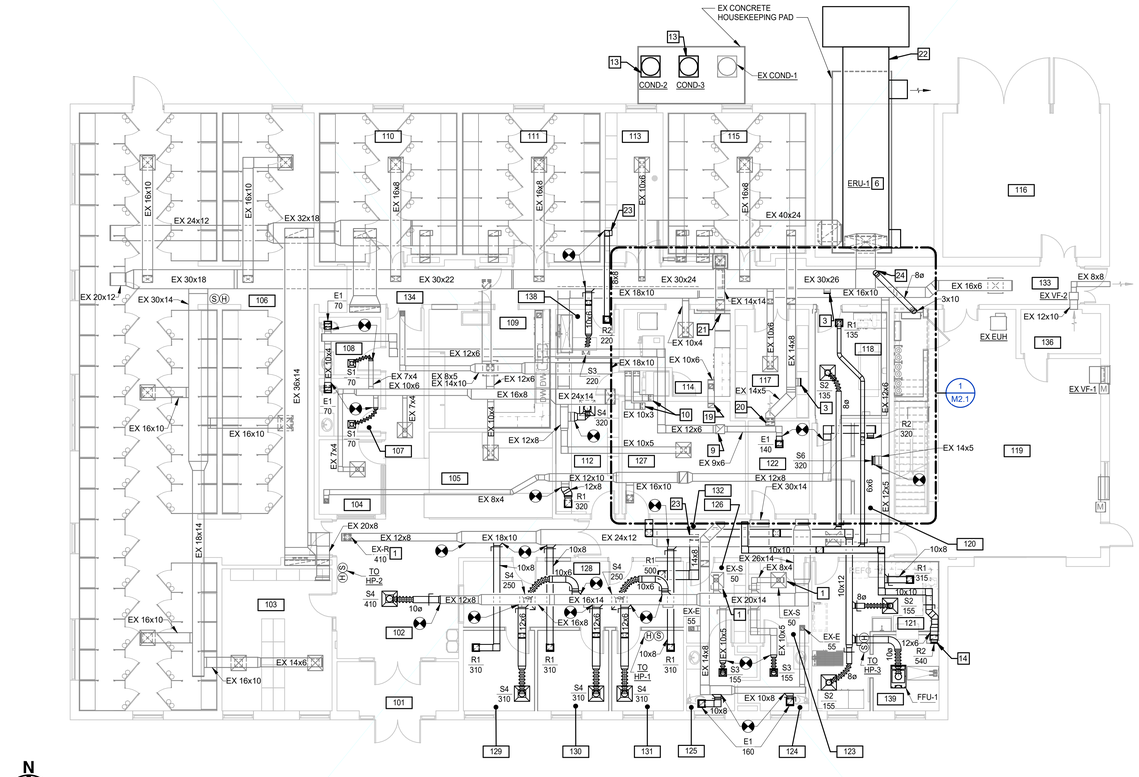
EX CONCRETE HOUSEKEEPING PAD
EX COND-1
COND-2
COND-3
ERU-1
EX 30x18
EX 30x22
EX 30x24
EX 30x26
EX 40x24
EX 32x18
EX 24x12
EX 20x12
EX 30x14
EX 16x10
EX 18x10
EX 14x14
EX 16x6
3x10
EX 8x8
EX VF-2
EX 12x10
EX EUH
EX VF-1
EX 36x14
EX 18x14
EX 14x6
EX 14x5
EX 20x8
EX 12x8
EX 18x10
EX 24x12
EX 8x4
EX 12x10
EX 20x14
EX 8x4
EX 26x14
EX 10x12
EX 12x6
EX 10x8
EX 14x8
EX 10x5
EX 10x6
EX 12x12
EX 10x4
EX 7x4
EX 8x5
EX 14x10
EX 16x8
EX 12x6
EX 24x14
EX 10x3
EX 12x8
EX 10x5
EX 9x6
EX 14x5
EX 12x5
EX 8x4
EX 30x14
EX 12x8
EX 16x10
EX 14x6
EX 10x8
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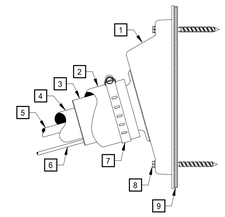
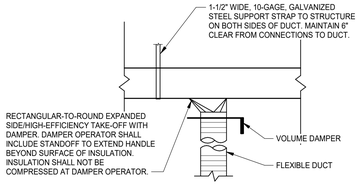
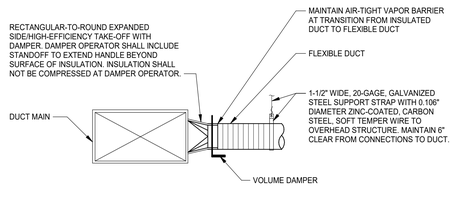
EX 12x12



1. EXTERIOR WALL OR PARAPET WALL, SEAL PENETRATION OUTLET WITH ELASTOMERIC LINE-SET COMPRESSION SLEEVE TYPE "TITAN GS" BY AIREX MANUFACTURING, INC. OR EQUAL. SIZE PER MANUFACTURER'S RECOMMENDATIONS
2. INSULATION PROTECTIVE PVC COVER TYPE "E-FLEX GUARD" BY AIREX MANUFACTURING ING. OR EQUAL.
3. ELASTOMERIC LINE-SET COMPRESSION & ANTI-VIBRATION SLEEVE
4. INSULATION FOR REFRIGERANT SUCTION LINE.
5. REFRIGERANT SUCTION LINE.
6. REFRIGERANT LIQUID LINE.
7. MECHANICAL CONNECTION SECURED WITH STAINLESS STEEL CLAMP.
8. WALL FASTENERS SELF-TAPPING 3/8" HEX HEAD 1/4" DIAMETER ALL MATERIAL ANCHOR SCREWS WITH ELASTOMERIC WASHERS.
9. WALL SURFACE SEAL ELASTOMERIC GASKET.

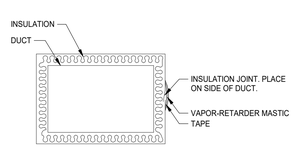
REFRIGERANT PIPE PENETRATION DETAIL - WALL





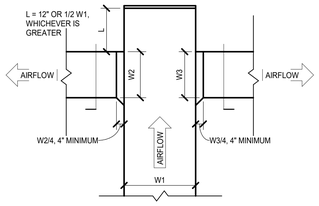
NOTES:
1. FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED WITH NYLON MECHANICAL BANDS OR PANDUIT STRAP.
2. IN EXPOSED AREAS, PROVIDE RIGID GALVANIZED STEEL BRANCH DUCT TO DIFFUSERS IN LIEU OF FLEXIBLE DUCT UNLESS INDICATED OTHERWISE. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR METAL DUCTS.

BRANCH CONNECTION TO DIFFUSER DETAILS



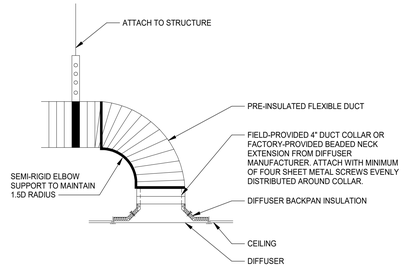
REFER TO SPECIFICATION SECTION 230700 FOR ADDITIONAL INFORMATION.

DUCT INSULATION JOINT DETAIL

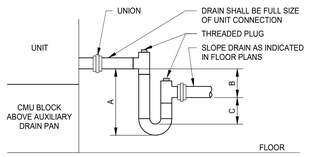


NOTE:
1. REFER TO *BRANCH CONNECTION TO DIFFUSER DETAILS* FOR BRANCH TAKE-OFF REQUIREMENTS.

END OF DUCT MAIN DETAIL



FLEXIBLE DUCT TO DIFFUSER CONNECTION DETAIL

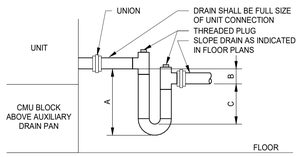


NEGATIVE PRESSURE TRAP

A = B + C + PIPE DIAMETER WHERE:

B = 1" FOR EACH INCH OF NEGATIVE STATIC PRESSURE + 1"

C = 1/2 OF B



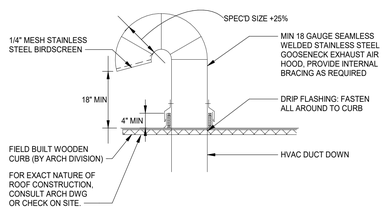
POSITIVE PRESSURE TRAP

A = B + C + PIPE DIAMETER WHERE:

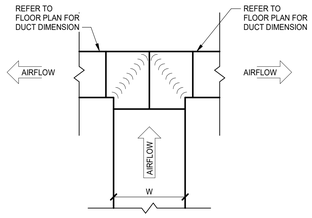
B = 1" MINIMUM

C = 1" + MAXIMUM UNIT POSITIVE STATIC PRESSURE AT COIL DISCHARGE

CONDENSATE DRAIN PIPING DETAIL

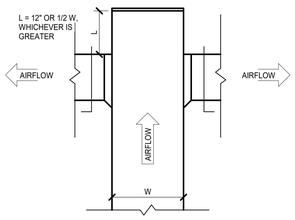


GOOSENECK DETAIL



NOTES:
1. APPLIES WHERE "W" EXCEEDS 24" OR WHEN AIRFLOW EXCEEDS 1,500 CFM.

DIVIDED FLOW BRANCH DETAILS



NOTES:
1. REFER TO *BRANCH CONNECTION TO DIFFUSER DETAILS* FOR BRANCH TAKE-OFF REQUIREMENTS.
2. APPLIES TO:
   A. WHERE "W" IS LESS THAN 24"
   B. ROUND DUCT BRANCHES TO DIFFUSERS
   C. WHEN AIRFLOW IS EQUAL TO OR LESS THAN 1,500 CFM.

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DETAILS

M5.1

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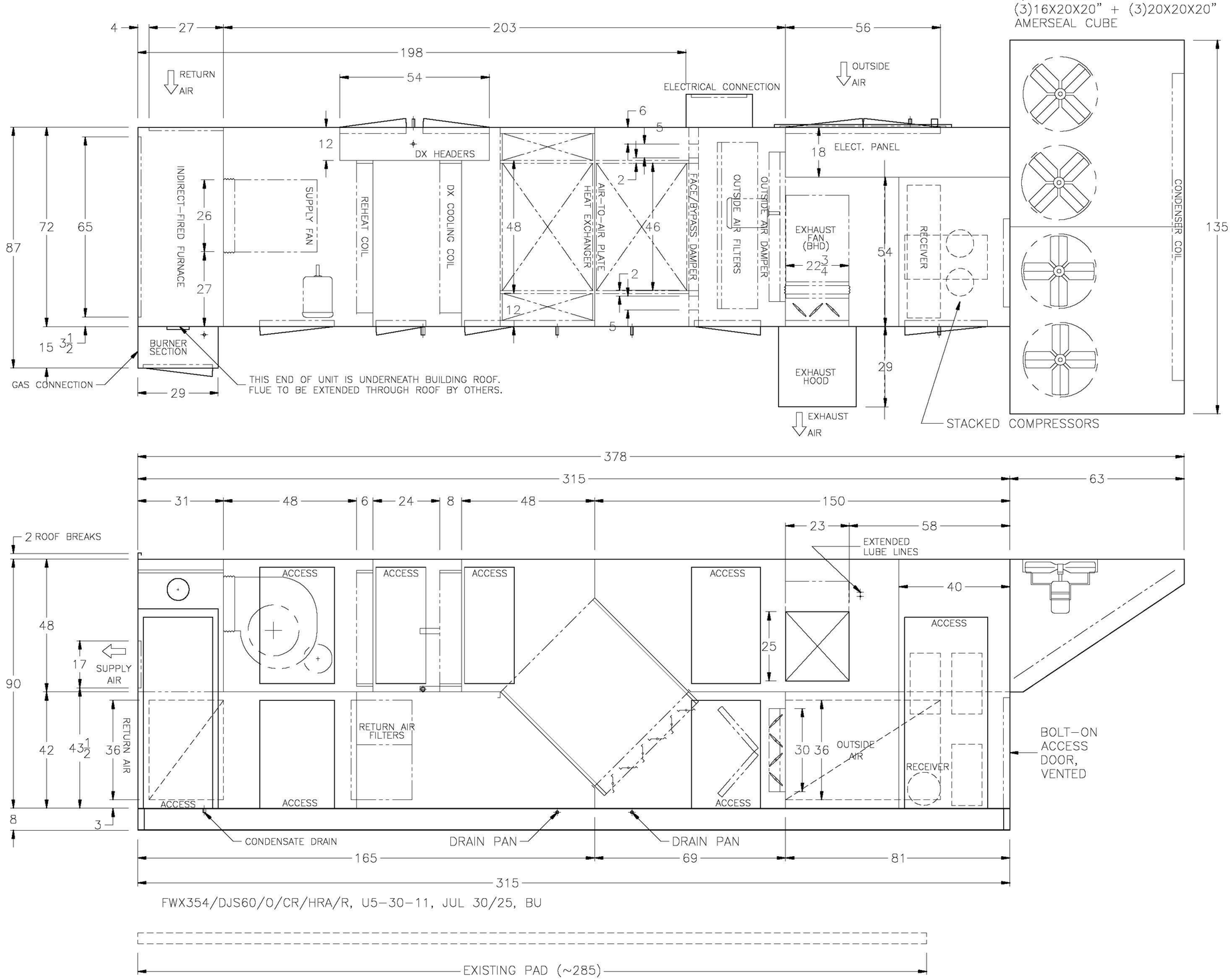
O/A FILTERS:
(6)20X20X2" MERV 8 STD.

R/A FILTERS:
(3)16X20X20" + (3)20X20X20"
AMERSEAL CUBE



FWX354/DJS60/O/CR/HRA/R, U5-30-11, JUL 30/25, BU

AIR HANDLING UNIT DETAILS - ERU-1
NO SCALE

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DETAILS

M5.2

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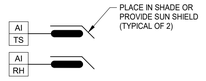
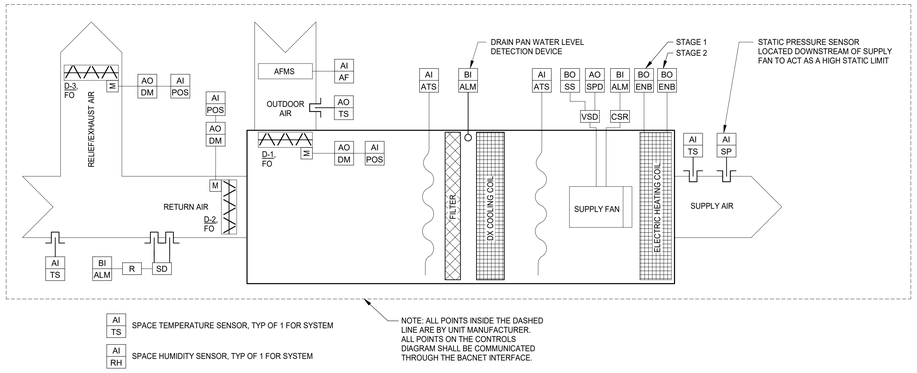
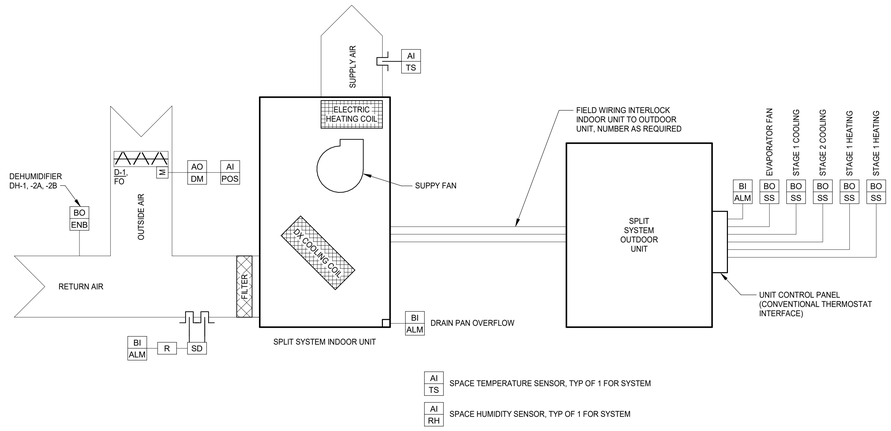


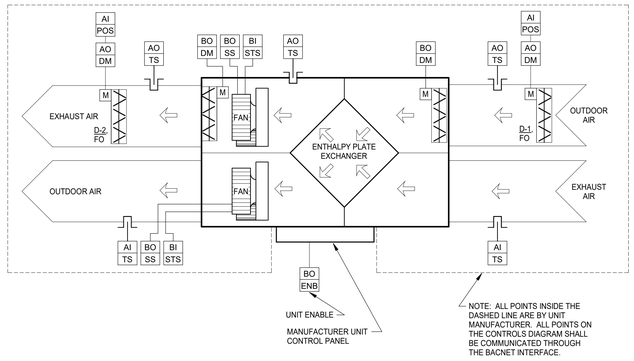
OUTDOOR AIR SENSORS
NO SCALE



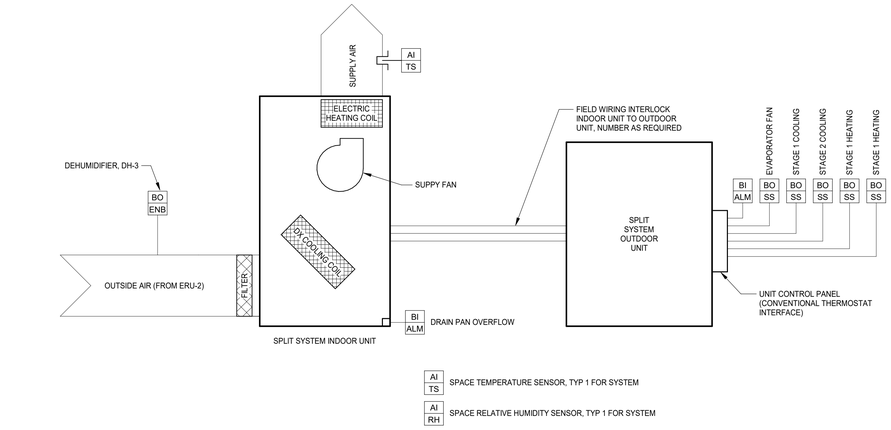
AIR HANDLING UNIT - ERU-1
NO SCALE



SPLIT SYSTEM HEAT PUMPS WITH ELECTRIC BACKUP HEAT (EX HP-1 & EX COND-1, HP-2 & COND-2)
NO SCALE



ENERGY RECOVERY VENTILATOR (ERU-2)
NO SCALE



SPLIT SYSTEM HEAT PUMPS WITH ELECTRIC BACKUP HEAT (HP-3 & COND-3)
NO SCALE

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CONTROLS

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GENERAL NOTES

A. PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE WORK.

B. REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION. ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.

C. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THE WORK.

D. BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.

E. EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.

F. DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.

G. WHERE DEMOLITION OF TELECOMMUNICATIONS DEVICES OCCUR, REMOVE CABLING NOT INDICATED TO REMAIN BACK TO POINT OF ORIGIN.

H. DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.
	DEVICES ARE EXISTING TO REMAIN.
	WITHIN HATCHED AREAS, DISCONNECT AND REMOVE ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO LIGHTS, DEVICES, EQUIPMENT, SPEAKERS, FIRE ALARM, COMMUNICATIONS, AND CIRCUITRY.

SECURITY LEGEND

SYMBOL	DESCRIPTION
	OMNI-DIRECTIONAL SECURITY MOTION DETECTOR.
	CAMERA MOUNTING LOCATION, CEILING MOUNT.
	CAMERA MOUNTING LOCATION, WALL MOUNT.
DPS	DOOR POSITION SWITCH.
C	STATUS CONTACT.
CR	CARD READER, MOUNT AT 3'-10" AFF.
CK	CARD READER WITH KEYPAD, MOUNT AT 3'-10" AFF.
K	REMOTE KEYPAD FOR SECURITY SYSTEM, MOUNT AT 3'-10" AFF.
DS	ELECTRIC DOOR STRIKE.
EL	ELECTRIC DOOR LOCK.
PL	PNEUMATIC DOOR LOCK.
	DURESS ALARM PUSHBUTTON, MOUNT IN CASEWORK AS INDICATED.

POWER DEVICE / EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
	OVERHEAD DOOR CONTROLLER.
	DOORBELL PUSH BUTTON.
	EMERGENCY POWER OFF (E.P.O) SWITCH.
	HANDICAP DOOR OPERATOR SWITCH.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE THREE IN DETAIL:
	NON-FUSIBLE DISCONNECT SWITCH.
	FUSIBLE DISCONNECT SWITCH.
	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT.
	MAGNETIC MOTOR STARTER, OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH, OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.
NOTE:	MOUNT THE FOLLOWING DEVICES AS NOTED:
F	FLUSH VALVE TRANSFORMER POWER CONNECTION. PROVIDE A 4"X4" RECESSED JB AND MOUNT POWER SUPPLY PROVIDED BY DIV 22. COORDINATE CONNECTION WITH DIV 22. PROVIDE A 2"X4" JB AT EACH TOILET, SINK AND WATER CLOSET AS RECOMMENDED BY THE MANUFACTURER. PROVIDE 2 #14 IN 1/2"C "DAISY CHAINED" BETWEEN UP TO EIGHT BOXES AND TERMINATING AT POWER SUPPLY.
V	ISOLATION VALVE. REFER TO ISOLATION VALVE CONTROL DETAIL ON DRAWING E4 SERIES DRAWING.
EC	EQUIPMENT POWER CONNECTION.
J	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
J	JUNCTION BOX, WALL MOUNTED. MOUNTING HEIGHT AS INDICATED ON PLANS.
M	MOTOR POWER CONNECTION.
M	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.
T	LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
M	POWER FOR DIV 23 MOTORIZED DAMPER. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
	NON-METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNTING HEIGHT INDICATED ON PLANS.
	PANELBOARD OR SWITCHBOARD, PROVIDE 6 INCH CONCRETE HOUSEKEEPING PAD FOR ALL GROUND MOUNTED EQUIPMENT UNLESS NOTED OTHERWISE. DENOTED BY PANELBOARD/SWITCHBOARD TAG PER ONE-LINE DIAGRAM.
XXX	FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.
	BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.

RECEPTACLE DEVICE LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE ONE IN DETAIL:
	APPLIANCE RECEPTACLE. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
	DUPLEX RECEPTACLE, NEMA 5-20R.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
	SINGLE RECEPTACLE, NEMA 5-20R.
	SWITCHED DUPLEX RECEPTACLE WITH SPLIT YOKE, THE BOTTOM OUTLET IS SWITCHED & THE TOP OUTLET IS UNSWITCHED, NEMA 5-15R.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
	DUPLEX RECEPTACLE, NEMA 5-20R.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
	SINGLE RECEPTACLE, NEMA 5-20R.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL:
	DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
NOTE:	MOUNT THE FOLLOWING DEVICES AS NOTED:
	DUPLEX RECEPTACLE, NEMA 5-20R, CEILING MOUNT.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, CEILING MOUNT.
	DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	CORD REEL OUTLET, CEILING MOUNT.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS.
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE. NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM VISUAL NOTIFICATION DEVICE. NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. NUMBER INDICATES STROBE CANDELA RATING.
F	FIRE ALARM MANUAL PULL STATION.
CO	CARBON MONOXIDE DETECTOR, CEILING MOUNT.
SC	COMBINATION SMOKE DETECTOR / CARBON MONOXIDE, CEILING MOUNT.
H	HEAT DETECTOR, CEILING MOUNT.
S	SMOKE DETECTOR, CEILING MOUNT.
SD	FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
TS	FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
FS	FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
PI	POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
PSV	SPRINKLER ELECTRICALLY SUPERVISED VALVE WITH ADDRESSABLE INTERFACE MOODULE. PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
RI	FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
M	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
C	FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
B	FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0"AFF. PROVIDE CONCEALED 120-VOLT POWER CONNECTION
M	FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE. COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 24-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
M	FIRE ALARM MAGNETIC DOOR HOLDER, FLOOR MOUNT. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 24-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
	FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

ONE LINE DIAGRAM LEGEND

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	FUSED SWITCH
	TRANSFORMER
	TRANSFER SWITCH
XXX	FEEDER DESIGNATION
CT	CURRENT TRANSFORMER
PT	POTENTIAL TRANSFORMER

LIGHTING LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS.
$	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS.
$$	LIGHT SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING, RATED 120/277 VOLTS, 20-AMPS.

SUBSCRIPT/SUPERSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:

3	INDICATES 3-WAY LIGHT SWITCH
4	INDICATES 4-WAY LIGHT SWITCH
D	INDICATES DIMMER SWITCH
D3	INDICATES 3-WAY DIMMER LIGHT SWITCH
D4	INDICATES 4-WAY DIMMER LIGHT SWITCH
K	INDICATES KEY OPERATED LIGHT SWITCH
K3	INDICATES KEY OPERATED 3-WAY LIGHT SWITCH
K4	INDICATES KEY OPERATED 4-WAY LIGHT SWITCH
LV	INDICATES LOW VOLTAGE LIGHT SWITCH
OS	INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR
OD	INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
P	INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON
T	INDICATES TIMER LIGHT SWITCH
VS	INDICATES SWITCH WITH INTEGRAL VACANCY SENSOR
VD	INDICATES DIMMER SWITCH WITH INTEGRAL VACANCY SENSOR

LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION

	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
	LIGHT FIXTURE, CEILING MOUNT.
	LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	LIGHT FIXTURE ON EMERGENCY POWER, WALL MOUNT, HEIGHT AS INDICATED.
	EXIT SIGN, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	EXIT SIGN, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.

COMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE ONE IN DETAIL:
X	TELECOMMUNICATIONS OUTLET, WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	MICROPHONE OUTLET. WALL MOUNT AT +1'-6" AAF. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.
	MICROPHONE, CEILING MOUNT, W/ PENDANT. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.
A	AUDIO INPUT OUTLET.
V	VIDEO INPUT OUTLET.
TGB	TELECOMMUNICATIONS GROUND BUS BAR.
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
X	TELECOMMUNICATIONS OUTLET, WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE THREE IN DETAIL:
	INTERCOM STATION WITH PUSHBUTTON.
	MASTER INTERCOM STATION.
	PUSHBUTTON SWITCH.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL:
S	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT.
NOTE:	MOUNT THE FOLLOWING DEVICES AS NOTED:
	MISC COMMUNICATIONS OUTLET. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	CATV OUTLET, COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.
S	SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT.
W	WIRELESS ACCESS POINT.
	2 POST TELECOMMUNICATIONS EQUIPMENT RACK.
	4 POST TELECOMMUNICATIONS EQUIPMENT RACK.
	2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
	CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.

C. FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.

D. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.

E. LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.

F. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.

G. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.

H. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC, COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.

I. ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE, UNO. THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.

J. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.

K. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.

L. WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.

M. PROVIDE A 2' WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

N. REFER TO STRUCTURAL DRAWINGS FOR ALL CONDUIT REQUIREMENTS BEING PLACED IN CMU WALLS.

ABBREVIATIONS

1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
A	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CLR	CLEAR
CO	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	FUSE PER NAMEPLATE DATA
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER)
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFP	GROUND FAULT PROTECTION FOR PERSONNEL 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFSS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR; REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION.
MTD	MOUNTED
N	NEUTRAL
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NO.	NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD
PD	PROTECTIVE DEVICE
RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SPEC.	SPECIFICATION(S)
ST	SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
W	WATTS
W/	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

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HENRICO ANIMAL SHELTER

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY, VA
615225

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

E0.1

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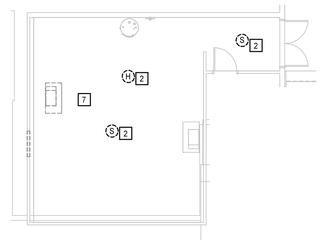


MEZZANINE PLAN - DEMOLITION

1/8" = 1'-0"

GENERAL NOTES

A. ALL EXISTING FIRE ALARM DEVICES SHALL REMAIN UNO AND RECONNECT TO NEW FIRE ALARM SYSTEM.

B. EXISTING INFORMATION INDICATED ON THIS SHEET PER FIELD OBSERVATION AND AS-BUILT DRAWINGS. VERIFY THE INFORMATION IN FIELD.

C. REFER TO ARCHITECTURAL, MECHANICAL, AND PLUMBING PLANS FOR ADDITIONAL INFORMATION.

D. ALL SYMBOLS WITH DASH LINE TO BE REMOVED UNO.

E. ALL SYMBOLS WITH LIGHT LINE TO REMAIN UNO.

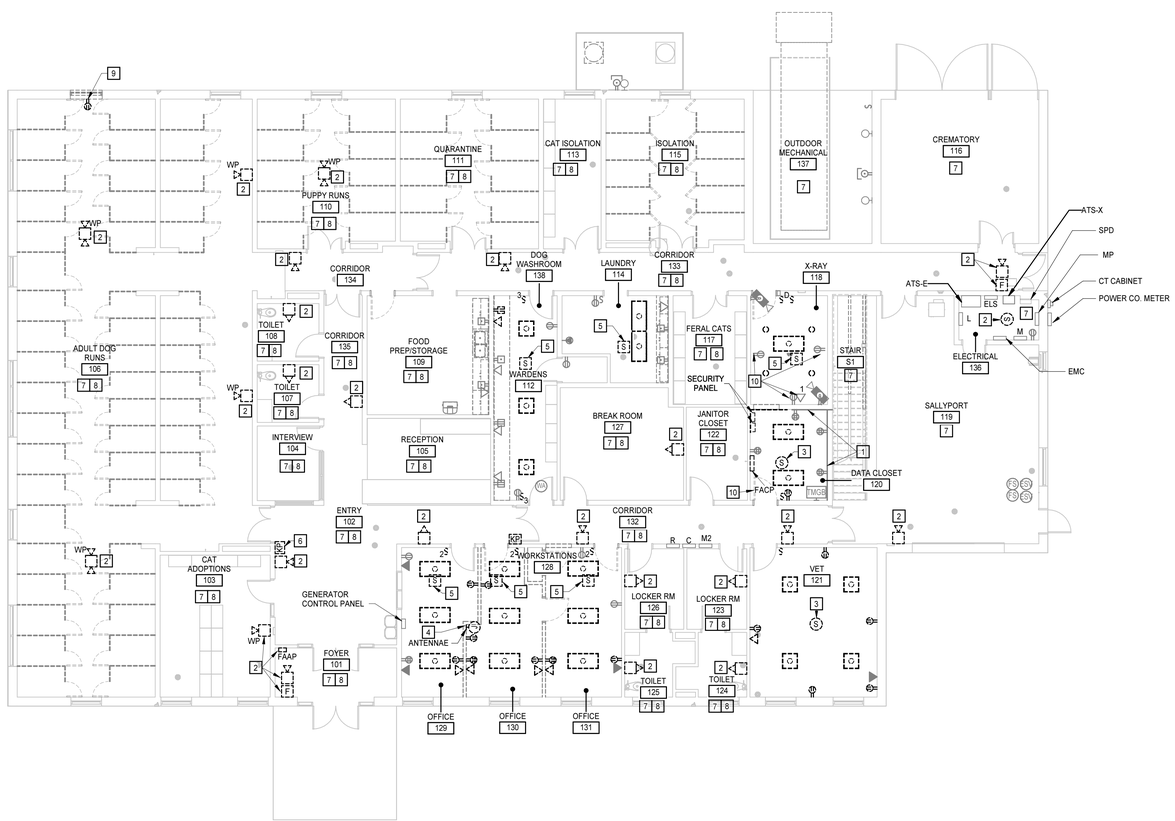
F. MAINTAIN ANY CIRCUITS INCLUDING LOW VOLTAGE SYSTEMS TO ANY EQUIPMENT/DEVICES REQUIRED TO SERVE EXISTING-TO-REMAIN SPACES.

G. ALL EXISTING MECHANICAL CIRCUITS SHALL REMAIN AND BE REUSED FOR NEW EQUIPMENT, REWORK AND EXTEND EXISTING FEEDERS AS REQUIRED TO CONNECT TO THE NEW EQUIPMENT. REFER TO DWG E2.1.4 & E2.2 FOR ADDITIONAL INFORMATION.

KEYNOTES

APPLIES TO DRAWINGS E1.2
REPRESENTED BY n

1. ALL EXISTING EQUIPMENT/DEVICES /CONDUITS /CABLES/PLYWOOD ON THE WALL SHALL REMAIN.
2. EXISTING FIRE ALARM DEVICE/EQUIPMENT SHALL BE REPLACED WITH NEW FIRE ALARM DEVICE/EQUIPMENT. REFER TO DWG E2.1.3 FOR ADDITIONAL INFORMATION..
3. EXISTING FIRE ALARM DEVICE SHALL BE REMOVED.
4. EXISTING ANTENNAE SYSTEM SHALL BE RELOCATED PER OWNER'S DIRECTION.
5. EXISTING SPEAKER SHALL BE REMOVED AND RE-INSTALL AFTER CEILING COMPLETE. REFER TO E2.1.3 FOR LOCATION.
6. NOT USED.
7. ALL EXISTING ELECTRICAL SYSTEMS (INCLUDING ALL LOW VOLTAGE SYSTEMS) IN THE ROOM SHALL REMAIN UNO.
8. REMOVE ALL EXISTING CEILING MOUNTED ELECTRICAL DEVICES INCLUDING LIGHT FIXTURES IN THE ROOM, THEN RE-INSTALL BACK AFTER CEILING COMPLETE.
9. RELOCATE THE EXISTING RECEPTACLE. REFER TO E2.1.2 FOR NEW LOCATION.
10. EXISTING RECEPTACLE AND DATA OUTLET SHALL BE REMOVED AND RE-INSTALL AFTER SHIELDING COMPLETE IN X-RAY ROOM.



FLOOR PLAN - DEMOLITION

1/8" = 1'-0"

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10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY, VA
615225

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

FLOOR PLANS - ELEC DEMOLITION

E1.2

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LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	SERIES NO.	WATTAGE	LIGHT SOURCE	LUMENS	CCT	CRI	DIMMING	COMMENTS
A	2X4 RECESSED TROFFER	HE WILLIAMS	50-G-S-24-L59-935-S-AF12125-DIM-UNV	48	LED	6231	3500	90	X	
A2	2X2 RECESSED TROFFER	HE WILLIAMS	50-G-S-22-L43-935-S-AF12125-DIM-UNV	33.7	LED	4363	3500	90	X	
B	CLEANROOM 6" RECESSED CAN LIGHT	HE WILLIAMS	HM6DR-TL-L30-935-ATH-DIM-UNV-LW-OF-WH-AD-N-F1	37.4	LED	3080	3500	90	X	
C	2X4 RECESSED TROFFER CLEANROOM	HE WILLIAMS	LT-24-L52-935-AF-DIM-UNV	37.2	LED	5202	3500	90	X	
D	6" RECESSED CAN LIGHT	HE WILLIAMS	6AR-L30-935-DIM-UNV-OW-OF-CS-MWT-R	31.3	LED	2917	3500	90	X	
F	4' LINEAR PENDANT	HE WILLIAMS	96-4-L62-935-HIAFR-GC2/L/10-DIM-UNV	48	LED	6434	3500	90	X	10' AFF
F1	4' LINEAR SURFACE	HE WILLIAMS	96-4-L62-935-HIAFR-DIM-UNV	48	LED	6434	3500	90	X	SURFACE
S1	SINGLE CEILING MOUNTED EXAM LIGHT	STARTROL	8X4-GS1	81	LED		4500K	95	X	140,000 LUX @ 1 METER
S2	SINGLE CEILING MOUNTED EXAM LIGHT	STARTROL	4X4-GS1	40	LED		4500K	95	X	70,000 LUX @ 1 METER
XW1	WALL EXIT SIGN	HE WILLIAMS	EXIT/EL-SF-R-CP-AN-AC-D	4	LED					

GENERAL NOTES:
A. ALL FIXTURES SHALL BE CAPABLE OF 120V INPUT, UNO.
B. REFER TO LIGHTING PLANS AND SPECIFICATIONS FOR ADDITIONAL FIXTURE INFORMATION.
C. ALL LENS SHALL BE A MINIMUM 0.125" THICKNESS, UNO.
D. PROVIDE NUMBER OF FACES AND DIRECTIONAL CHEVRONS FOR EXIT SIGNS AS INDICATED ON DWGS.

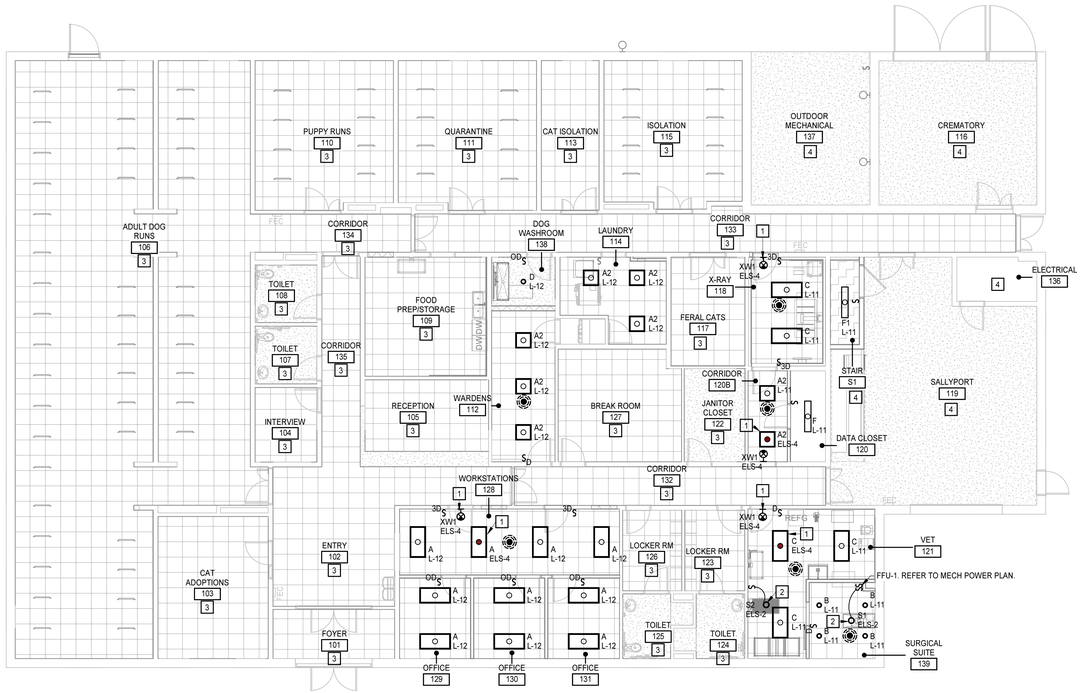
GENERAL NOTES

A . REFER TO ARCHITECTURAL OR INTERIOR PLANS FOR ADDITIONAL INFORMATION.

KEYNOTES

APPLIES TO DRAWINGS E2.1.1
REPRESENTED BY n

1. EGRESS LIGHTING AND EXIT SIGN SHALL BE UNSWITCHED UNO.
2. SURGICAL LIGHT WILL NOT BE CONTROLLED BY OCCUPANCY SENSOR.
3. REFER TO KEYNOTE#8 ON DEMO DRAWING E1.2.
4. EXITING LIGHTING SYSTEM IN THE ROOM SHALL REMAIN UNO.



N

FLOOR PLAN - LIGHTING

1/8" = 1'-0"

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COMMONWEALTH OF VIRGINIA
BRIAN C. WELLS
Lic. No. 046269
08-18-25
PROFESSIONAL ENGINEER

HENRICO ANIMAL SHELTER

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY, VA
615225

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

FLOOR PLAN - LIGHTING

E2.1.1

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GENERAL NOTES

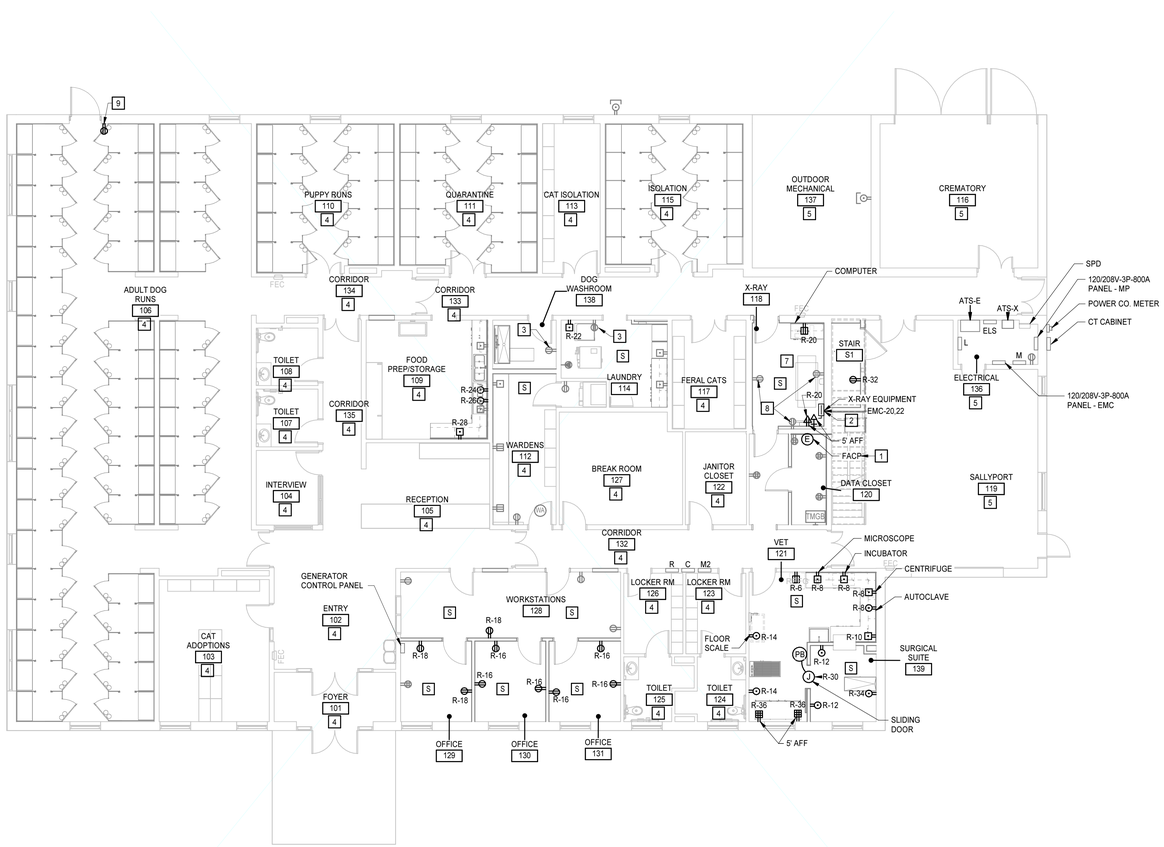
A . REFER TO ARCHITECTURAL OR INTERIOR PLANS FOR ADDITIONAL INFORMATION INCLUDING LOCATIONS AND HEIGHTS OF OUTLETS, JUNCTION BOXES.

B. ALL RECEPTACLE COVERS SHALL BE STAINLESS STEEL.

KEYNOTES

APPLIES TO DRAWINGS E2.1.2
REPRESENTED BY [n]

1. REUSE EXISTING FACP CIRCUIT ELS-13.
2. PROVIDE A NEMA 3R, 208V/1P, 200A 115A-FUSE DISCONNECT. COORDINATE THIS WITH MANUFACTURER. LOCATION CAN BE FIELD ADJUSTED. PROVIDE 3#3/0,#6G,2"C.
3. PROVIDE A GFI RECEPTACLE TO REPLACE THE EXISTING RECEPTACLE.
4. REFER TO KEYNOTE# 7 & #8 ON DEMO DRAWING E1.2.
5. EXISTING POWER SYSTEM IN THE ROOM SHALL REMAIN UNO.
6. REFER TO KEYNOTE# 9 ON DEMO DRAWING E1.2.
7. ALL JUNCTION BOXES AND OTHER PENETRATIONS IN WALLS IN X-RAY ROOM MUST BE LINED WITH EQUIVALENT THICKNESS OF SHIELDING WITH OVERLAPPING EDGES (NO GAPS IN SHIELDING).
8. REFER TO KEYNOTE# 10 ON DEMO DRAWING E1.2.



N

FLOOR PLAN - POWER
1/8" = 1'-0"

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FLOOR PLAN - POWER

E2.1.2

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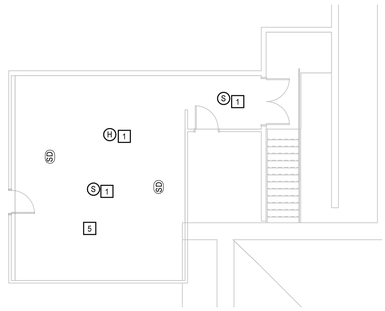
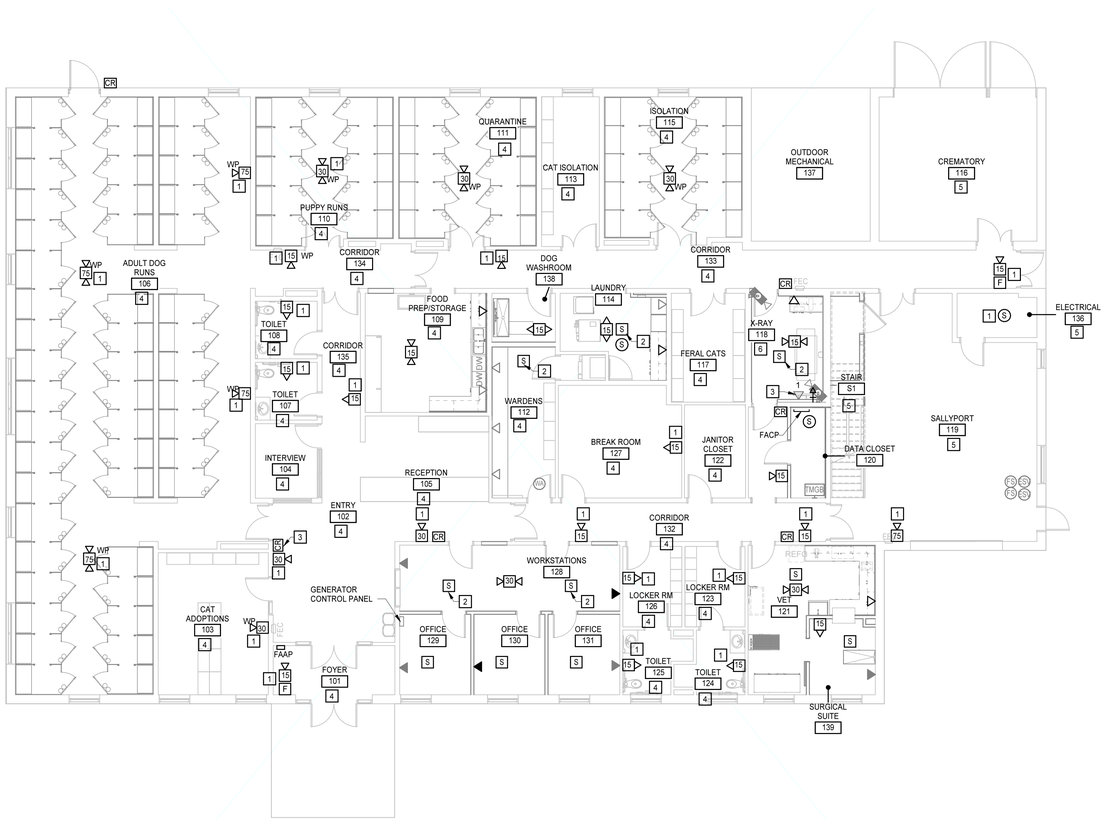


MEZZANINE PLAN - COMMUNICATIONS
1/8" = 1'-0"



FLOOR PLAN - COMMUNICATIONS
1/8" = 1'-0"

GENERAL NOTES

A. SOLID GRAY AREAS ARE NOT IN CONTRACT UNO.

B. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

C. ALL EXISTING DEVICES/EQUIPMENT, WHICH WERE CONNECTED TO EXISTING FACP, SHALL BE DISCONNECTED FROM THE EX FACP AND RECONNECTED TO THE FACP LOCATED IN DATA CLOSET/120.

D. ALL DATA/TELE OUTLET COVERS SHALL BE STAINLESS STEEL.

KEYNOTES

APPLIES TO DRAWINGS E2.1.3
REPRESENTED BY: n

1. REFER TO KEYNOTE#2 ON DWG E1.2 FOR ADDITIONAL INFORMATION.
2. REFER TO KEYNOTE#5 ON DWG E1.2 FOR ADDITIONAL INFORMATION.
3. REFER TO KEYNOTE# 10 ON DEMO DRAWING E1.2.
4. REFER TO KEYNOTE# 7 & #8 ON DEMO DRAWING E1.2.
5. EXITING LOW VOLTAGE SYSTEM IN THE ROOM SHALL REMAIN UNO.
6. ALL JUNCTION BOXES AND OTHER PENETRATIONS IN WALLS IN X-RAY ROOM MUST BE LINED WITH EQUIVALENT THICKNESS OF SHIELDING WITH OVERLAPPING EDGES (NO GAPS IN SHIELDING).

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FLOOR PLANS-
COMMUNICATIONS

E2.1.3

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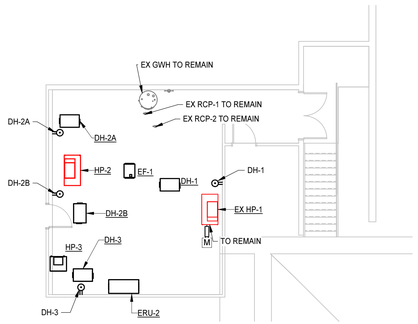


MEZZANINE PLAN - MECH POWER

1/8" = 1'-0"

DIV 23 ELECTRICAL CONNECTION SCHEDULE - E2.1.4

TAG	VOLTAGE	# POLES	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
CENTRAL SCAVENGER SYSTEM WAGD	120 V	1	M2	32	2#12,#12G,3/4"C	NOTE 2	
COND-2	208 V	3				NOTE 5	1
COND-3	208 V	2	M2	34,36	3#6,#10G,1"C	NOTE 4	
DH-1	120 V	1	M	17	2#12,#12G,3/4"C	PLUG-IN RECEPTACLE	
DH-2A	120 V	1	M	19	2#12,#12G,3/4"C	PLUG-IN RECEPTACLE	
DH-2B	120 V	1	M	21	2#12,#12G,3/4"C	PLUG-IN RECEPTACLE	
DH-3	120 V	1	M	23	2#12,#12G,3/4"C	PLUG-IN RECEPTACLE	
EF-1	120 V	1				USING EXISTING DISCONNECT	1
ERU-1	208 V	3				NOTE 1	1
ERU-2	208 V	2	M2	26,28	3#12,#12G,3/4"C	NOTE 1	
FFU-1	120 V	1	M2	30	2#12,#12G,3/4"C	NOTE 3	
HP-2	208 V	3				NOTE 5	1
HP-3	208 V	2	M2	38,40	3#8,#10G,3/4"C	NOTE 4	
OXYGEN MASTER CONTROL/ALARM PANEL	120 V	1	M	25	2#12,#12G,3/4"C	NOTE 2	

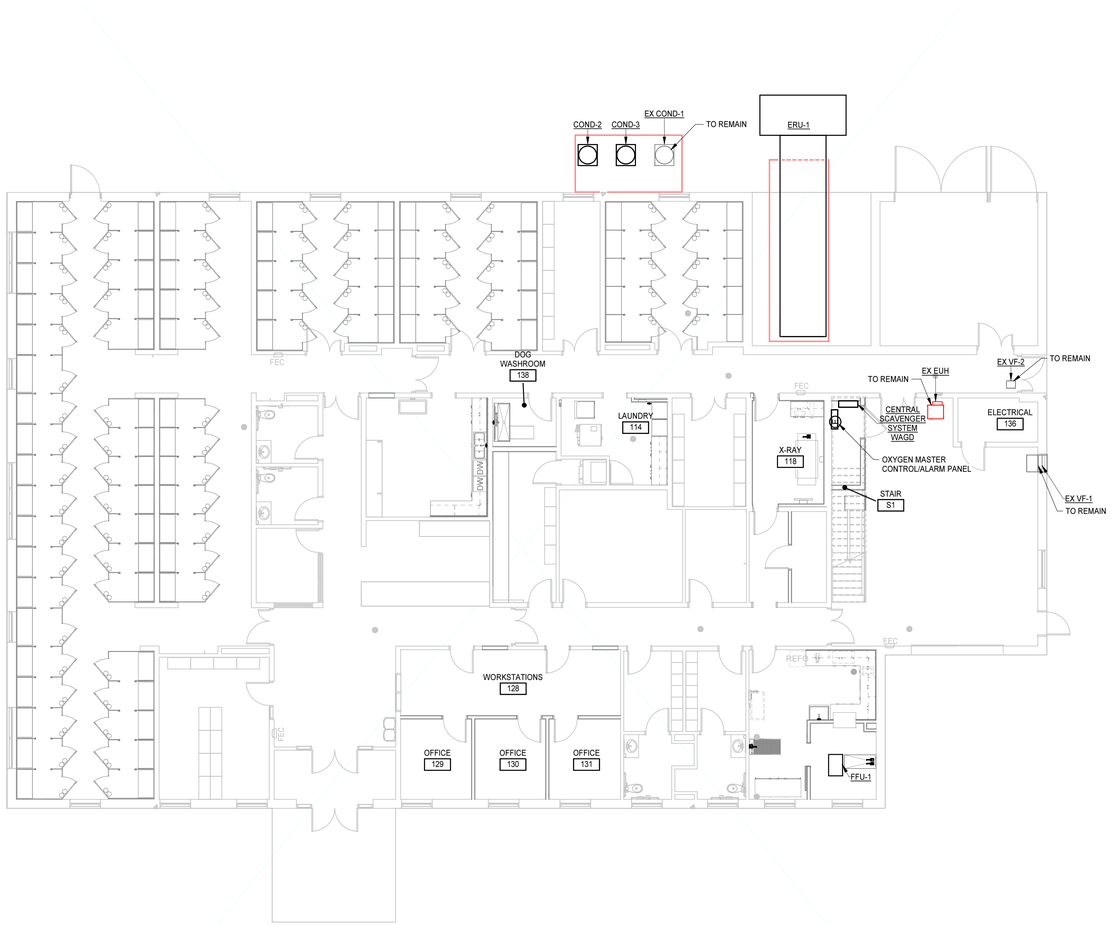
DISCONNECT NOTES:
1. PROVIDED BY DIV 23.
2. PROVIDE BY DIV 22.
3. PROVIDE A TOGGLE SWITCH AS INDICATED. REFER TO LIGHTING PLAN FOR LOCATION.
4. PROVIDE NEMA 3R, 208V/1P, 60A NON-FUSE DISCONNECT. MOUNT ON OR ADJACENT TO THE UNIT. LOCATION SHALL BE FIELD DETERMINED.
5. PROVIDE NEMA 3R, 208V/3P, 60A NON-FUSE DISCONNECT. MOUNT ON OR ADJACENT TO THE UNIT. LOCATION SHALL BE FIELD DETERMINED.

REMARKS NOTES:
1. REUSE EX CKT OF THE PREVIOUS EQUIPMENT (TO BE REMOVED)

GENERAL NOTES

A. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS, & ELECTRICAL CONNECTIONS WITH MECHANICAL AND PLUMBING.

B. REFER TO KEYNOTE# 7 & #8 ON DEMO DRAWING E1.2.



N

FLOOR PLAN - MECH POWER

1/8" = 1'-0"

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FLOOR PLANS - MECH POWER

E2.1.4

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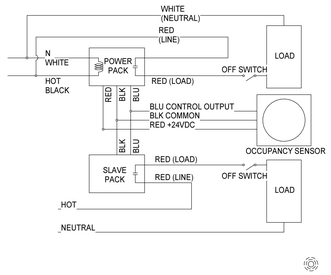
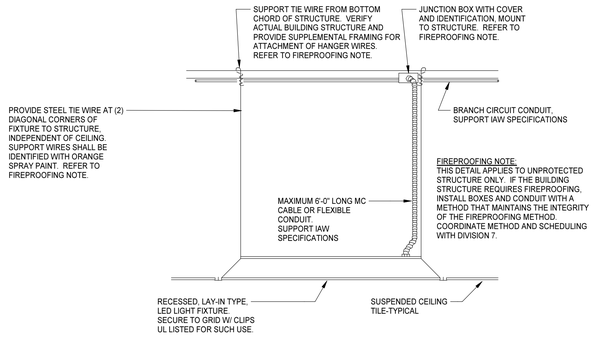


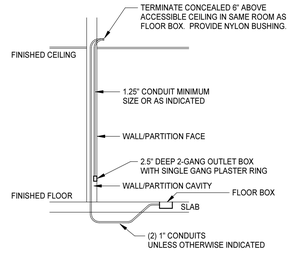
OCCUPANCY SENSOR DIAGRAM AUXILARY RELAY PACK SENSOR

NO SCALE



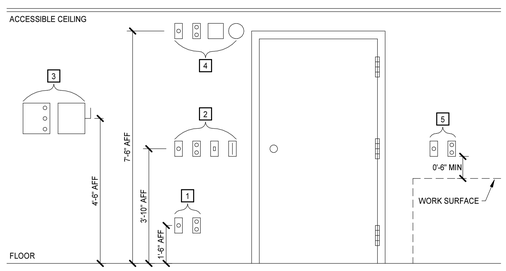
RECESSED, LAY-IN, LED LIGHT FIXTURE MOUNTING DETAIL

NO SCALE



TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - FLOOR BOX

NO SCALE



KEY NOTES:

1. RECEPTACLE OR TELECOMMUNICATIONS DEVICES MOUNTED AT 1'-6" AFF UNO ON FLOOR PLAN
2. RECEPTACLE, TELECOMMUNICATIONS DEVICES, LIGHT SWITCH, POWER DEVICES / EQUIPMENT OR CARD READER MOUNTED AT 3'-10" AFF UNO ON FLOOR PLAN
3. POWER DEVICES / EQUIPMENT MOUNTED AT 4'-6" AFF UNO ON FLOOR PLAN. IF EQUIPMENT HAS HANDLE OR SWITCHES, MIDDLE OF HANDLE OR SWITCH SHALL BE AAT 4'-6" AFF UNO.
4. RECEPTACLE OR TELECOMMUNICATIONS DEVICES MOUNTED AT 7'-6" AFF UNO ON FLOOR PLAN
5. RECEPTACLE OR TELECOMMUNICATIONS DEVICES MOUNTED ABOVE WORK SURFACE

REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHTS AND ELEVATIONS OF ALL WORK SURFACES

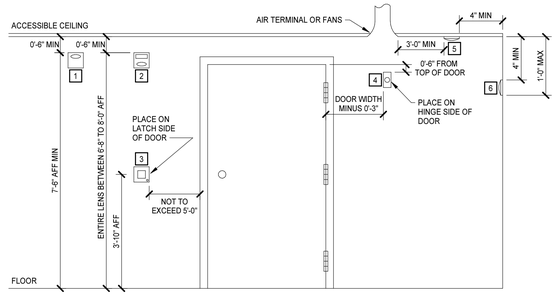
LEGEND SYMBOL: REFER TO RECEPTACLES DEVICE AND COMMUNICATIONS LEGEND FOR COMPLETE LIST OF SYMBOLS

LEGEND SYMBOL: CR OR KP OR S OR SS
REFER TO RECEPTACLES DEVICE, COMMUNICATIONS, POWER DEVICES / EQUIPMENT LEGEND FOR COMPLETE LIST OF SYMBOLS

LEGEND SYMBOL:
REFER TO POWER DEVICES / EQUIPMENT LEGEND FOR COMPLETE LIST OF SYMBOLS

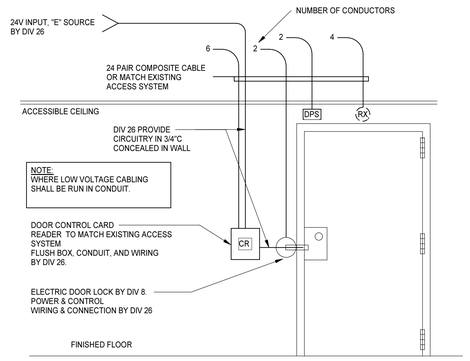
LEGEND SYMBOL: REFER TO RECEPTACLES DEVICE, COMMUNICATIONS, POWER DEVICES / EQUIPMENT LEGEND FOR COMPLETE LIST OF SYMBOLS

NOTES:
1. ALL DEVICES MOUNTED ABOVE NON-ADA COMPLIANT WORK SURFACES SHALL ADHERE TO THE FOLLOW:
   A. BOTTOM OF DEVICE SHALL BE 0'-6" MINIMUM ABOVE WORK SURFACE.
2. ALL DEVICES MOUNTED ABOVE ADA COMPLAINT WORK SURFACES SHALL ADHERE TO THE FOLLOW:
   A. BOTTOM OF DEVICE SHALL BE 0'-6" MINIMUM ABOVE WORK SURFACE.
   B. TOP OF DEVICE SHALL BE NO HIGHER THAN 3'-8" ABOVE WORK SURFACE FOR OBSTRUCTED FORWARD REACH.
   C. TOP OF DEVICE SHALL BE NO HIGHER THAN 3'-10" ABOVE WORK SURFACE FOR OBSTRUCTED SIDE REACH.



KEY NOTES:

1. FIRE ALARM AUDIO ONLY DEVICE, — LEGEND SYMBOL:
2. FIRE ALARM VISUAL ONLY DEVICE OR FIRE ALARM AUDIO/VISUAL DEVICE, — LEGEND SYMBOL: OR
3. FIRE ALARM MANUAL PULL STATION OR FIRE ALARM KEY OPERATED MANUAL PULL STATION, — LEGEND SYMBOL: F OR FK
4. FIRE ALARM MAGNETIC DOOR HOLDER — LEGEND SYMBOL: M
5. FIRE ALARM INITIATING DEVICES - CEILING MOUNTED: SMOKE, HEAT, CARBON OR COMBO DETECTORS — LEGEND SYMBOL: S OR H OR CO OR SC
6. FIRE ALARM INITIATING DEVICES - WALL MOUNTED: SMOKE, HEAT, CARBON OR COMBO DETECTORS — LEGEND SYMBOL: S OR H OR CO OR SC



CARD READER DETAIL

NO SCALE

E4 TYPICAL DEVICE ELEVATION DETAIL

NO SCALE

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E4.1

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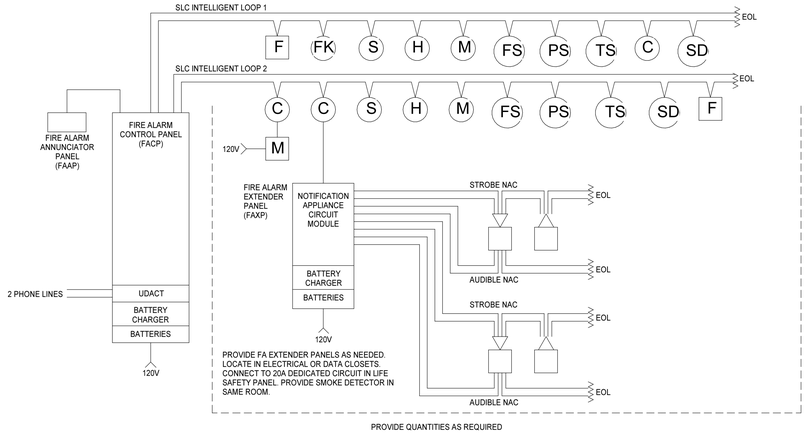
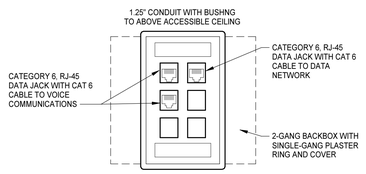


FIRE ALARM RISER DIAGRAM

NO SCALE

FIRE ALARM INPUT/OUTPUT MATRIX

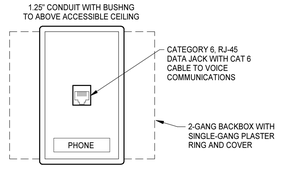
		CONTROL UNIT ANNUNCIATION								NOTIFICATION / ACTION											
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE ALARM INDICATOR	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ANNUNCIATE AT GRAPHIC AND TEXT ANNUCIATORS	ACTUATE NOTIFICATION APPLIANCE	ACTUATE SPRINKLER FLOW BELL	DISPLAY CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	REFER TO ELEVATOR RECALL AND SHUNT TRIP DIAGRAM	RELEASE DOOR MAGNETS TO ALLOW DOORS TO CLOSE	SHUT DOWN ASSOCIATED HVAC EQUIPMENT		
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S			
1	MANUAL PULL STATION	X	X	X					X	X		X	X				X				
2	SMOKE DETECTOR	X	X	X					X	X		X	X				X				
3	DUCT SMOKE DETECTOR	X	X	X					X	X		X	X				X	X			
4	HEAT DETECTOR	X	X	X					X	X		X	X				X				
5	KITCHEN HOOD FIRE SUPPRESSION SYSTEM MONITOR	X	X	X					X	X	X	X	X				X				
6	SPRINKLER SYSTEM WATERFLOW	X	X	X					X	X	X	X	X				X				
7	SPRINKLER VALVE TAMPER SWITCH				X	X			X			X		X							
8	MONITOR MODULE - GENERATOR FAILURE				X	X			X			X		X							
9	MONITOR MODULE - GENERATOR RUN						X	X	X			X		X							
10	FIRE ALARM AC POWER FAILURE						X	X	X			X			X						
11	FIRE ALARM SYSTEM LOW BATTERY						X	X	X			X			X						
11	FIRE ALARM OPEN CIRCUIT						X	X	X			X			X						
13	FIRE ALARM GROUND FAULT						X	X	X			X			X						
14	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT SHORT						X	X	X			X			X						



TELECOMMUNICATIONS OUTLET DETAIL - TYPE 2

46" AFF .18" AFF

NO SCALE

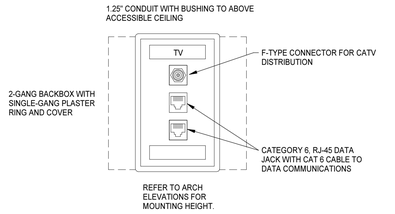


TELECOMMUNICATIONS OUTLET DETAIL - TYPE 1

1 1

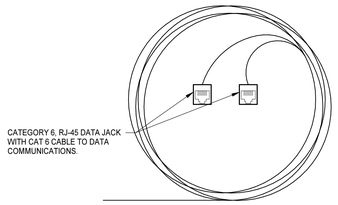
46" AFF 18" AFF

NO SCALE



CATV OUTLET DETAIL - TYPE 1

NO SCALE



WIRELESS ACCESS POINT DETAIL (WA)

NO SCALE

TELECOMMUNICATION OUTLET DETAILS

NO SCALE

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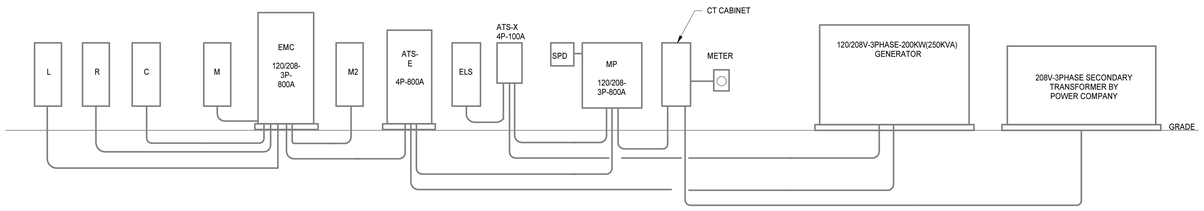

EXISTING ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

COPPER FEEDER SCHEDULE

FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	35Y	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	40Y	1	4#8,#10 G	3/4"
45	1	3#6,#10 G	1"	45Y	1	4#6,#10 G	1"
50	1	3#6,#10 G	1"	50Y	1	4#6,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	70Y	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	100Y	1	4#2,#8 G	1 1/2"
110	1	3#2,#6 G	1 1/2"	110Y	1	4#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"	125Y	1	4#1,#6 G	1 1/2"
150	1	3#1/0,#6 G	2"	150Y	1	4#1/0,#6 G	2"
175	1	3#2/0,#6 G	2"	175Y	1	4#2/0,#6 G	2"
200	1	3#3/0,#6 G	2"	200Y	1	4#3/0,#6 G	2"
225	1	3#4/0,#4 G	2 1/2"	225Y	1	4#4/0,#4 G	2 1/2"
250	1	3-250KCM,#4 G	2 1/2"	250Y	1	4-250KCM,#4 G	2 1/2"
300	1	3-350KCM,#4 G	2 1/2"	300Y	1	4-350KCM,#4 G	2 1/2"
350	2	3#2/0,#3 G	3"	350Y	2	4#2/0,#3 G	3"
400	2	3#3/0,#3 G	2"	400Y	2	4#3/0,#3 G	2"
450	2	3#4/0,#2 G	2 1/2"	450Y	2	4#4/0,#2 G	2 1/2"
500	2	3-250KCM,#2 G	2 1/2"	500Y	2	4-250KCM,#2 G	2 1/2"
600	2	3-350KCM,#1 G	3"	600Y	2	4-350KCM,#1 G	3"
700	2	3-500KCM,#1/0 G	4"	700Y	2	4-500KCM,#1/0 G	4"
800	3	3-350KCM,#1/0 G	3"	800Y	3	4-350KCM,#1/0 G	3"
1000	3	3-500KCM,#2/0 G	4"	1000Y	3	4-500KCM,#2/0 G	4"
1200	4	3-350KCM,#3/0 G	3"	1200Y	4	4-350KCM,#3/0 G	3"
1600	5	3-500KCM,#4/0 G	4"	1600Y	5	4-500KCM,#4/0 G	4"
2000	6	3-500KCM,#250 G	4"	2000Y	6	4-500KCM,#250 G	4"
2500	7	3-500KCM,#350 G	4"	2500Y	7	4-500KCM,#350 G	4"

NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.
3. SIZES ADJUSTED PER NEC 110.14.

GENERAL NOTES

A. EXISTING ONE-LINE DIAGRAM AND PANEL SCHEDULE PER FIELD OBSERVATION AND THE INFORMATION SHOWN ON EXISTING DRAWINGS.

B. VERIFY INFORMATION SHOWN ON EXISTING ONE-LINE DIAGRAM AND PANEL SCHEDULE IN FIELD.

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
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COMMONWEALTH OF VIRGINIA
BRIAN C. WELLS
Lic. No. 046269
08-18-25
PROFESSIONAL ENGINEER

HENRICO ANIMAL SHELTER

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY, VA
615225

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS	
DATE	DESCRIPTION

POWER ONE-LINE DIAGRAM

E5.1

8/15/2025 12:28:24 PM

EXSITING PANEL SCHEDULE — EMC

LOCATION: ELECTRICAL 136 — FED FROM: ATS-E

800 AMP MCB | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 42 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				0.0	0.0								2
3	200 A	3	ERU-1			0.0	0.0			PANEL L	3	225 A	4
5								0.0	1.1				6
7				4.5	2.4								8
9	225 A	3	PANEL M2			8.0	2.8			PANEL R	3	225 A	10
11								4.7	4.1				12
13				0.0	0.0								14
15	225 A	3	PANEL C			0.0	0.0			SPARE	3	100 A	16
17								0.0	0.0				18
19				--	15.0					X-RAY - RM 118 (PB)	2	250 A	20
21	--	3	SPACE ONLY			--	15.0						22
23								--	--	SPACE ONLY	1	--	24
25				1.4	--								26
27	350 A	3	PANEL M			0.9	--			N/A	3	--	28
29								1.8	--				30
31				0.0	--								32
33	800 A	3	MAIN			0.0	--			N/A	3	--	34
35								0.0	--				36
37				--	--								38
39	--	3	SPACE ONLY			--	--			SPACE ONLY	3	--	40
41								--	--				42
				23 kVA		26 kVA		12 kVA					
				206 A		235 A		97 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22. PROVIDE DED. NEUTRAL
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. PROVIDE DED. NEUTRAL
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE.
(EB) = EXISTING BREAKER
(RB) = REPLACE BREAKER WITH SIZE INDICATED
(PB) = PROVIDE BREAKER IN EXISTING SPACE

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	1094 VA	125.00%	1367 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	4140 VA	100.00%	4140 VA
AC / HEAT PUMP	17647 VA	100.00%	17647 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	36710 VA	100.00%	36710 VA
EXISTING LOAD @ 125%	0 VA	0.00%	0 VA

Panel Totals
Total Conn. Load: 61.1 kVA
Total Est. Demand: 61.3 kVA
Total Conn. Current: 169 A
Total Est. Demand Current: 170 A

EXISTING PANEL SCHEDULE — L

LOCATION: ELECTRICAL 136 — FED FROM: EMC

225 AMP MCB | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	RECEPTION AREA LTS	0.0	0.0					EXT. BUILDING LIGHTS	1	20 A	2
3	20 A	1	ADULT DOG RUNS LTS			0.0	0.0			EXT. SERVICE LIGHTS	1	20 A	4
5	20 A	1	PUPPY/QUARANTINE/ISOLATION LTS					0.0	0.0	PARKING LIGHTS	1	20 A	6
7	20 A	1	FOOD PREP/WARDENS/LAUNDRY/BREAK ROOM LTS	0.0	0.0					PARKING LIGHTS	1	20 A	8
9	20 A	1	OFFICE AREA LTS			0.0	0.0			SIGN LIGHTS	1	20 A	10
11	20 A	1	**LTS RM 118, 120, 120B, 121, 139**					0.4	0.7	**LTS RM 112, 114, 128-131, 133**	1	20 A	12
13	20 A	1	UNKNOWN	0.0	0.0					SPARE	1	20 A	14
15	20 A	1	EUTHANALEUTHANASIA/JANITOR LTS			0.0	0.0			SPARE	1	20 A	16
17	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	18
19	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	20
21	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	22
23	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	24
25	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	26
27	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	28
29	20 A	1	SPARE					0.0	--	SPACE ONLY	1	--	30
31	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	32
33	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	34
35	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	36
37	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	38
39	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	40
41	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	42
				0 kVA		0 kVA		1 kVA					
				0 A		0 A		9 A					

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(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. PROVIDE DED. NEUTRAL
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE.
(EB) = EXISTING BREAKER
(RB) = REPLACE BREAKER WITH SIZE INDICATED
(PB) = PROVIDE BREAKER IN EXISTING SPACE

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	1094 VA	125.00%	1367 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	0 VA	0.00%	0 VA
EXISTING LOAD @ 125%	0 VA	0.00%	0 VA

Panel Totals
Total Conn. Load: 1.1 kVA
Total Est. Demand: 1.4 kVA
Total Conn. Current: 3 A
Total Est. Demand Current: 4 A

EXISTING PANEL SCHEDULE — ELS

LOCATION: ELECTRICAL 136 — FED FROM: ATS-X

100 AMP MCB | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	EXIT SIGN LTS	0.0	0.1					**SURGICAL LTS - RM 121, 139**	1	20 A	2
3	20 A	1	WALK THRU LTS			0.0	0.1			**EGRESS EXIT SIGNAGE**	1	20 A	4
5	20 A	1	CAT ADOPT/BATH/LOCKER LTS					0.0	0.0	SPARE	1	20 A	6
7	20 A	1	EXT EGRESS LTS	0.0	0.0					SPARE	1	20 A	8
9	20 A	1	SALLYPORT/ELEC/DATA/MECH LIGHTS			0.0	0.0			SPARE	1	20 A	10
11	20 A	1	UNKNOWN					0.0	0.0	SPARE	1	20 A	12
13	20 A	1	FIRE ALARM CONTROL PANEL	0.0	0.0					SPARE	1	20 A	14
15	20 A	1	DRY SPRINKLER AIR COMPRESSOR			0.0	0.0			SPARE	1	20 A	16
17	20 A	1	SPARE					0.0	--	SPACE ONLY	1	--	18
19				0.0	--					SPACE ONLY	1	--	20
21	20 A	3	GENERATOR ACCESSORIES			0.0	--			SPACE ONLY	1	--	22
23								0.0	--	SPACE ONLY	1	--	24
25	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	26
27	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	28
29	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	30
31	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	32
33	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	34
35	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	36
37	--	1	SPACE ONLY	--	0.0								38
39	--	1	SPACE ONLY			--	0.0			MAIN	3	100 A	40
41	--	1	SPACE ONLY					--	0.0				42
				0 kVA		0 kVA		0 kVA					
				1 A		1 A		0 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22. PROVIDE DED. NEUTRAL
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. PROVIDE DED. NEUTRAL
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE.
(EB) = EXISTING BREAKER
(RB) = REPLACE BREAKER WITH SIZE INDICATED
(PB) = PROVIDE BREAKER IN EXISTING SPACE

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	240 VA	125.00%	300 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	0 VA	0.00%	0 VA
EXISTING LOAD @ 125%	0 VA	0.00%	0 VA

Panel Totals
Total Conn. Load: 0.2 kVA
Total Est. Demand: 0.3 kVA
Total Conn. Current: 1 A
Total Est. Demand Current: 1 A

EXISTING PANEL SCHEDULE — M2

LOCATION: CORRIDOR 132 — FED FROM: EMC

225 AMP MCB | 120/208 Wye | 3 PH 4 W | MOUNT: RECESSED | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	UNKNOWN	0.0	0.0					UNKNOWN	1	20 A	2
3	15 A	2	UNKNOWN			0.0	0.0			UNKNOWN	1	20 A	4
5								0.0	0.0	UNKNOWN	1	20 A	6
7	15 A	2	UNKNOWN	0.0	0.0					UNKNOWN	1	20 A	8
9						0.0	0.0			SPARE	1	20 A	10
11	20 A	1	EXHAUST FAN					0.0	0.0	SPARE	1	20 A	12
13	20 A	1	EXHAUST FAN	0.0	0.0					SPARE	1	20 A	14
15	20 A	1	EXHAUST FAN			0.0	0.0			SPARE	1	20 A	16
17	20 A	1	EXHAUST FAN					0.0	0.0	SPARE	1	20 A	18
19				0.0	0.0					SPARE	1	20 A	20
21	50 A	2	UNKNOWN			0.0	0.0			SPARE	1	20 A	22
23	40 A	2	UNKNOWN					0.0	0.0	SPARE	1	20 A	24
25				0.0	0.9					**ERU-2 (RB)**	2	20 A	26
27	20 A	1	UNKNOWN			0.0	0.9						28
29	20 A	1	SPARE					0.0	0.5	**FFU-1**	1	20 A	30
31				0.0	0.5					**CENTRAL SYSTEM WAGD**	1	20 A	32
33	15 A	3	LAUNDRY 114 WATER			0.0	4.2			**COND-3 (PB)**	2	50 A	34
35								0.0	4.2				36
37				0.0	3.3					**HP-3 (PB)**	2	40 A	38
39	20 A	3	UNKNOWN			0.0	3.3						40
41								0.0	--	SPACE ONLY	1	--	42
				5 kVA		8 kVA		5 kVA					
				38 A		67 A		39 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22. PROVIDE DED. NEUTRAL
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. PROVIDE DED. NEUTRAL
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
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(EB) = EXISTING BREAKER
(RB) = REPLACE BREAKER WITH SIZE INDICATED
(PB) = PROVIDE BREAKER IN EXISTING SPACE

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	14217 VA	100.00%	14217 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	1000 VA	100.00%	1000 VA
EXISTING LOAD @ 125%	0 VA	0.00%	0 VA

Panel Totals
Total Conn. Load: 16.9 kVA
Total Est. Demand: 16.9 kVA
Total Conn. Current: 47 A
Total Est. Demand Current: 47 A

EXISTING PANEL SCHEDULE — R

LOCATION: CORRIDOR 132 — FED FROM: EMC

225 AMP MCB | 120/208 Wye | 3 PH 4 W | MOUNT: RECESSED | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		LOAD	POLE	BRKR	CKT
1	20 A	1	REC. ADULT DOG 106	0.0	0.0			LIVESTOCK BLDG LIGHTS	1	20 A	2
3	20 A	1	REC. PUPPY ISOL			0.0	0.0	LIVESTOCK BLDG REC.	1	20 A	4
5	20 A	1	REC CAT ADOPT/ENTRY/FOYER	0.0	0.0			**REFRIG- RM 121 (GP)**	1	20 A	6
7	20 A	1	REC SUPPORT TECH/SARG			0.0	0.0	**RECS- RM 121**	1	20 A	8
9	20 A	1	REC. LOCKER ROOM/SINK	0.0	0.0			**REC - RM 121**	1	20 A	10
11	20 A	1	REC. FUTURE VET 121			0.0	0.0	**RECS- RM 139**	1	20 A	12
13	20 A	1	REC TOILETS 107/108	0.0	0.4			**RECS- RM 121**	1	20 A	14
15	20 A	1	REC. FOOD PREP 109			0.0	1.1	**RECS- RM 130, 131**	1	20 A	16
17	20 A	1	REC FOOD PREP 109 COUNTER	0.0	0.0			**RECS- RM 129, 128**	1	20 A	18
19	20 A	1	REC LAUNDRY 114			0.0	0.0	**RECS- RM 118**	1	20 A	20
21	20 A	1	REC BREAKROOM 127	0.0	0.0			**WASHER - RM 114**	1	20 A	22
23	20 A	1	REC. COUNTER BREAKROOM 127			0.0	0.0	**DISHWASHER - RM 109**	1	20 A	24
25	20 A	1	REC TV BREAKROOM 127	0.0	0.8			**DISHWASHER - RM 109**	1	20 A	26
27	20 A	1	REC FERRAL CATS/EUTHAN			0.0	0.2	**REC - RM 109**	1	20 A	28
29	20 A	1	REC. JANITOR/DATA DUPLEX	0.0	0.0			**SLIDING DOOR**	1	20 A	30
31	20 A	1	REC SALLY PORT 119			0.0	0.0	**REC - UNDERSTAIR S1**	1	20 A	32
33	20 A	1	UNKNOWN	0.0	0.0			**SURGERY TABLE - RM 139**	1	20 A	34
35	20 A	1	REC. SALLYPORT/ ELECTRICAL RM			0.0	0.0	**RECS - RM 121 (GP)**	1	20 A	36
37	20 A	1	UNKNOWN	0.0	0.0			SPARE	1	20 A	38
39	20 A	1	REC RECEPTION 105 COPIER			0.0	0.0	SPARE	1	20 A	40
41	20 A	1	REC WARDENS 112	0.0	0.0			SPARE	1	20 A	42
				2 kVA		3 kVA					
				20 A		24 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22. PROVIDE DED. NEUTRAL
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(RB) = REPLACE BREAKER WITH SIZE INDICATED
(PB) = PROVIDE BREAKER IN EXISTING SPACE

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	4140 VA	100.00%	4140 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	5210 VA	100.00%	5210 VA
EXISTING LOAD @ 125%	0 VA	0.00%	0 VA

Panel Totals
Total Conn. Load: 9.4 kVA
Total Est. Demand: 9.4 kVA
Total Conn. Current: 26 A
Total Est. Demand Current: 26 A

EXISTING PANEL SCHEDULE — M

LOCATION: ELECTRICAL 136 — FED FROM: EMC

225 AMP MCB | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	REC CORR. 132	0.0	0.0					REC CORR. 133, 135	1	20 A	2
3	20 A	1	REC EXT. FRONT & SIDE			0.0	0.0			REC EXT. REAR	1	20 A	4
5	20 A	1	ENTRY 102 EWC					0.0	0.0	UNKNOWN	1	20 A	6
7	20 A	1	WATER HEATER CONTROLS	0.0	0.0					VF-2	1	20 A	8
9	20 A	1	HWCP-1			0.0	0.0			REC SALLYPORT 119 FREEZER	1	20 A	10
11	20 A	1	REC MECH RM 200					0.0	0.0	VF-1	1	20 A	12
13	20 A	1	MOTORIZED GATE	0.0	0.0					EF-1	1	20 A	14
15	20 A	1	HWCP-2			0.0	0.0			UNKNOWN	1	20 A	16
17	20 A	1	**DH-1**					0.9	0.0	UNKNOWN	1	20 A	18
19	20 A	1	**DH-2A**	0.9	0.0					PIT SPRINKLER SUMP PUMP	1	20 A	20
21	20 A	1	**DH-2B**			0.9	0.0			UNIT HEATER SALLYPORT 119	2	50 A	22
23	20 A	1	**DH-3**					0.9	0.0				24
25	20 A	1	**OXYGEN MASTER CONTROL/ALARM PANEL**	0.5	0.0								26
27	20 A	1	SPARE			0.0	0.0			OVERHEAD DOOR SALLYPORT 119	3	20 A	28
29	20 A	1	SPARE					0.0	0.0				30
31				0.0	0.0								32
33	50 A	3	HP-1			0.0	0.0			COND-1	3	50 A	34
35								0.0	0.0				36
37				0.0	0.0								38
39	50 A	3	HP-2			0.0	0.0			COND-2	3	40 A	40
41								0.0	0.0				42
				1 kVA		1 kVA		2 kVA					
				12 A		7 A		15 A					

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(PB) = PROVIDE BREAKER IN EXISTING SPACE

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	3544 VA	100.00%	3544 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	500 VA	100.00%	500 VA
EXISTING LOAD @ 125%	0 VA	0.00%	0 VA

Panel Totals
Total Conn. Load: 4.0 kVA
Total Est. Demand: 4.0 kVA
Total Conn. Current: 11 A
Total Est. Demand Current: 11 A

GENERAL NOTES

A. EXISTING PANELBOARD SCHEDULES PER FIELD OBSERVATION AND THE INFORMATION SHOWN ON EXISTING DRAWINGS.

B. VERIFY INFORMATION SHOWN ON EXISTING PANELBOARD SCHEDULES IN FIELD.

C. CIRCUITS IN BOLD IN EXISTING PANELS ARE NEW OR REUSED OR NO LONGER USED AS SPARE. ALL OTHER CIRCUITS IN NON-BOLD ARE EXISTING CIRCUITS AND TO REMAIN.

D. IDENTIFY ALL UNKOWN LOADS IN EACH PANEL AND UPDATE EACH PANEL SCHEDULE.

MOSELEYARCHITECTS
3200 NORFOLK STREET, RICHMOND, VA 23230
PHONE (804) 794-7555 FAX (804) 355-8690
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COMMONWEALTH OF VIRGINIA
BRIAN C. WELLS
Lic. No. 046269
08-18-25
PROFESSIONAL ENGINEER

HENRICO ANIMAL SHELTER

10421 WOODMAN ROAD, GLEN ALLEN, VA 23060
HENRICO COUNTY, VA
615225

PROJECT NO: 615225
DATE: AUGUST 18, 2025

REVISIONS

DATE	DESCRIPTION

PANELBOARD SCHEDULES

E5.2

8/15/2025 12:28:25 PM