City of Carmel

Renovation of Station 42

3610 W. 106th St. Carmel, IN 46032

ISSUED FOR CONSTRUCTION
5/15/26



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LOCUTION SYSTEM

Sheet Number	NAME
----	LOCUTION SYSTEM DESIGN BY ERS FOR REFERENCE ONLY

2

STAGING MAP

KEEP BOTH NORTH AND SOUTH DRIVE LANES CLEAR AND ACCESSIBLE AT ALL TIMES FOR RESPONDING TRUCKS



VICINITY MAP



Technology Engineer:

kbso CONSULTING

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Etica GROUP

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One Civic Square
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PROFESSIONAL SEAL:

TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
2	Pre-bid Changes		8-14-2026

ISSUED FOR CONSTRUCTION

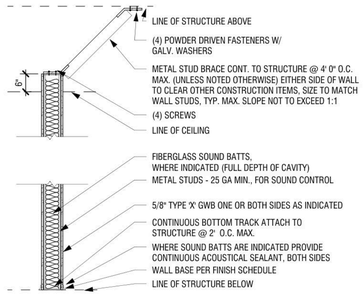
DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

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COVER

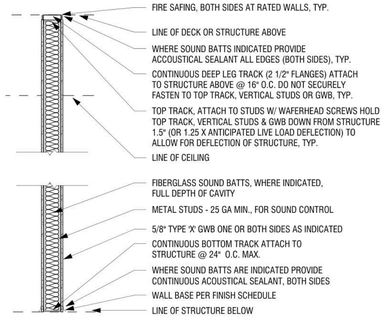
SHEET NUMBER:
G001

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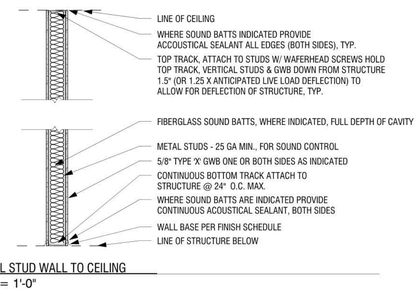
TYPE	PARTITION WIDTH	CORE SIZE	MAX. STUD SPACING O.C.	ACCOUSTIC RATING	FIRE RATING	UL NUMBER	REMARKS
S3A	4 7/8"	3 5/8"	24" O.C.	47 STC	1 HR	U465	
S3B	4 1/4"	3 5/8"	24" O.C.	---	---	---	
S3C	6 1/8"	3 5/8"	24" O.C.	56 STC	2 HR	U411	
S3D	4 7/8"	3 5/8"	24" O.C.	47 STC	1 HR	U465	MOISTURE RESISTANT GWB
S3E	4 7/8"	3 5/8"	24" O.C.	47 STC	1 HR	U465	MOISTURE RESISTANT GWB
S3F	4 1/4"	3 5/8"	24" O.C.	---	---	---	MOISTURE RESISTANT GWB
S6A	6 7/8"	5 5/8"	24" O.C.	49 STC	1 HR	U465	



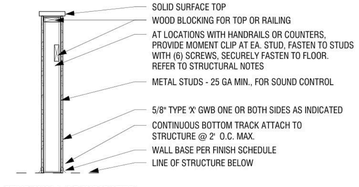
2 A001 STEEL STUD WALL PARTIAL HEIGHT
1/2" = 1'-0"



1 A001 STEEL STUD WALL FULL HEIGHT
1/2" = 1'-0"

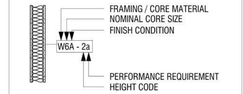


5 A001 STEEL STUD WALL TO CEILING
1/2" = 1'-0"



4 A001 STEEL STUD WALL AS INDICATED
1/2" = 1'-0"

PARTITION DESIGNATION



FRAMING/CORE MATERIAL	FINISH CONDITION
C – CAST IN PLACE E – ENGINEERED METAL BUILDING G – GLASS WALL M – MASONRY P – PRE-CAST S – STEEL W – WOOD	A – 1 LAYER GYP EACH SIDE B – GYP ON ONE SIDE C – 2 LAYERS GYP EACH SIDE D – BACK TO BACK WET WALL E – SINGLE LOAD WET WALL F – SEE REMARKS G – SEE REMARKS H – SEE REMARKS
HEIGHT CODE	**PERFORMANCE REQUIREMENT**
1 – 6" ABOVE CEILING 2 – TO DECK 3 – TO CEILING 4 – AS INDICATED 5 – SEE NOTES	a – ACOUSTIC ASSEMBLY b – PENETRATION RESISTANT c – SHAFT WALL d – DAMAGE RESISTANT e – EPOXY COATED f – FIRE RATED g – FOIL FACED GYPSUM h – SEE REMARKS

WALL TYPE NOTES

1. WALL TYPES DO NOT INCLUDE WALL FINISHES. SEE ROOM FINISH SCHEDULE FOR FINISH INFORMATION.

2. COORDINATE RATING REQUIREMENTS INDICATED ON SPECIFIC PARTITIONS WITH LIFE SAFETY PLAN.

3. ALL ACCOUSTIC AND FIRE RATED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH TESTING AGENCY REQUIREMENTS. REFER TO SPECIFIC TEST REPORTS FOR REQUIRED COMPONENTS AND ASSEMBLY. SEE WALL TYPE REFERENCES AND LIFE SAFETY SHEETS FOR RATED WALL LOCATIONS. PROVIDE STOPPING PER MANUFACTURE'S RECOMMENDATIONS FOR PENETRATIONS THROUGH RATED WALLS.

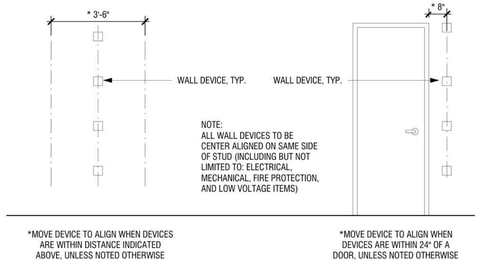
4. ALL INTERIOR WALLS WHERE SOUND BATT INSULATION IS INDICATED ARE CONSIDRED ACOUSTIC WALLS. WHERE SPECIFIC STC RATINGS ARE REQUIRED SEE INDIVIDUAL WALL TYPE PARTITIONS.

5. AT STUD WALLS WHICH DO NOT EXTEND TO STRUCTURE, PROVIDE BRACING 4'-0" O.C. AND AT CENTERLINE OF DOOR OPENINGS.

6. PROVIDE WOOD BLOCKING AT TOP AND BOTTOM OF CABINETS. COORDINATE HEIGHTS WITH CASEWORK ELEVATIONS.

7. AT STUD WALLS, WOOD BLOCKING IS REQUIRED AT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO THE FOLLOWING LOCATIONS:
   A. WALL MOUNTED COUNTERS AND COUNTERTOP SUPPORTS.
   B. WALL MOUNTED ACCESSORIES AND EQUIPMENT
   C. WALL MOUNTED DOORSTOPS
   D. WALL MOUNTED DOOR HOLD OPEN DEVICES AND/OR CLOSERS
   E. TOILET ROOM PARTITIONS AND ACCESSORIES
   F. WALL MOUNTED TV'S AND BRACKETS
   G. OTHER LOCATIONS AS REQUIRED BY THE ARCHITECT AND INDUSTRY STANDARDS.

8. INSTALL BLOCKING BETWEEN EXISTING STRUCTURAL MEMBERS TO ALLOW PROPER ATTACHMENT OF NEW PARTITIONS TO STURCTURE ABOVE.



7 A001 DEVICE LOCATION DIAGRAM
3/8" = 1'-0"

ABBREVIATIONS

ABD	ABANDONED
AC	AIR CONDITIONING
A/E	ASPHALT EMULSION
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ASPH	ASPHALT
BOT	BOTTOM
BD	BOARD
BRLG	BASE FLASHING
BIT	BITUMINOUS
BJT	BED JOINT
BLDG	BUILDING
BLK	BLOCK
BRG	BEARING
BS	BOTH SIDES
BUR	BUILT UP ROOFING
BRK	BRICK
C/C	CENTER TO CENTER
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER FLASHING
CO	CLEAN OUT
COL	COLUMN
COORD	COORDINATE
CONC	CONCRETE
CONT	CONTINUOUS or CONTINUED
CONTR	CONTRACTOR
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DTL	DETAIL
DWG	DRAWING
EF	EXHAUST FAN
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION or ELEVATOR
ENG	ENGINEER
EP	ELECTRICAL PANEL
ETC	ETCETERA
EST	ESTIMATE
EXG	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FB	FACE BRICK
FD	FLOOR DRAIN
FIN	FINISHED
FLG	FLASHING
FSR	FLEXIBLE SHEET ROOFING
FLR	FLOOR
FP	FALL PROTECTION
FT	FOOT or FEET
GA	GAUGE
GALV	GALVANIZED
GB	GLASS BLOCK
GC	GENERAL CONTRACTOR
GL	GLASS
GR	GRADE
GRV	GRAVITY ROOF VENT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HGT	HEIGHT
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORZ	HORIZONTAL
HVAC	HEATING, VENTILATING, AIR CONDITIONING
IN	INCH
INFO	INFORMATION
INSUL	INSULATION
JT	JOINT
LAM	LAMINATED
LBS	POUNDS
LFT	LINEAR FOOT
LVR	LOUVER
LWC	LIGHT WEIGHT CONCRETE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBR	MODIFIED BITUMEN ROOFING
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MRD	METAL ROOF DECK
MTD	MOUNTED
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OH	OVERHEAD
OPNG	OPENING
PT	PAINT
PCC	PRE-CAST CONCRETE
PERP	PERPENDICULAR
PL	PLATE
PLAS	PLASTIC
PLBG	PLUMBING
PWD	PLYWOOD
PREFAB	PREFABRICATED
PROJ	PROJECT
PSI	POUNDS PER SQUARE INCH
PP	PIPE PENETRATION
PS	PIPE SEAL
PV	PLUMBING VENT
PVC	POLY VINYL CHLORIDE
QTY	QUANTITY
RC	ROOF CORE
RD	ROOF DRAIN
RE	REFER TO
REINF	REINFORCING
REQD	REQUIRED
RFG	ROOFING
RS	ROOF SUMP
RV	RELIEF VENT
REV	REVISION
SATT	SATELLITE DISH
SC	SCUPPER
SD	STORM DRAIN
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
T&G	TONGUE & GROOVE
TEMP	TEMPERATURE
TERM	TERMINATION
THK	THICK or THICKNESS
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TO	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UNF	UNFINISHED
UTIL	UTILITY
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VR	VAPOR RETARDER
VERT	VERTICAL
VIF	VERIFY IN FIELD

GENERAL PROJECT NOTES

A. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL BUILDING CODES. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE CURRENT APPLICABLE BUILDING CODE(S) FOR THEIR RESPECTIVE SCOPE OF WORK.

B. CONTRACTOR(S) SHALL VISIT THE WORK SITE PRIOR TO COMMENCEMENT. THE DRAWINGS CONTAINED HEREIN MAY NOT BE ALL INCLUSIVE OF EXISTING CONDITIONS OR NEW WORK REQUIREMENTS. CONTRACTOR(S) SHALL MAKE THEMSELVES FAMILIAR WITH THE WORK SITE IN THE FIELD IN ORDER TO BE FULLY AWARE OF THE REQUIREMENTS OF THE SCOPE OF WORK.

C. FIELD VERIFY ALL DIMENSIONS AND MEASUREMENTS. INFORM THE GENERAL CONTRACTOR BEFORE BEGINNING ANY CONSTRUCTION IF EXISTING CONDITIONS PREVENT OBTAINING RESULTS AS SHOWN OR SPECIFIED. DO NOT SCALE DRAWINGS. NOTED DIMENSIONS TAKE PRECEDENCE.

D. VERIFY EXISTING CONDITIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCY THROUGH THE GENERAL CONTRACTOR TO ETICA GROUP, INC.

E. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING ALL ON-SITE ACTIVITIES; SUCH AS, BUT NOT LIMITED TO, WORK SCHEDULE, MATERIALS STORAGE AND HANDLING, DELIVERIES, ACCESS TO THE WORK SITE, TRAFFIC CONTROL, AND BUILDING/PUBLIC SAFETY PROCEDURES DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE WORK "BY OTHERS" WITH HIS/HER OWN ACTIVITIES AS NECESSARY TO EXECUTE THE OVERALL PROJECT SCOPE.

F. FOR THOSE ITEMS TO BE ORDERED REQUIRING LEAD TIME, THE CONTRACTOR SHALL COORDINATE THE PROJECT SCHEDULE ACCORDINGLY AND COMMUNICATE TO THE OWNER AND ETICA GROUP WHEN DECISIONS MUST BE RENDERED IN ORDER FOR THE CONTRACTOR TO MEET THE PROJECT SCHEDULE. NEITHER THE OWNER NOR ARCHITECT IS RESPONSIBLE FOR DELAYS RESULTING FROM THE CONTRACTOR'S FAILURE TO COMMUNICATE MATERIAL LEAD TIMES.

G. SUBSTITUTIONS FOR SPECIFICALLY NAMED PRODUCTS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE DESIGNER. SUBMIT REQUESTS FOR SUBSTITUTIONS WITH APPROPRIATE SUPPORT INFORMATION TO THE DESIGNER. ALLOW REASONABLY SUFFICIENT TIME FOR THE DESIGNER TO REVIEW THE REQUEST AND RENDER A DECISION.

H. ETICA GROUP, INC., SHALL NOT HAVE CONTROL OVER, OR BE IN CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR A CONTRACTOR'S CONSTRUCTION MEANS, METHODS, SCHEDULES, SEQUENCES, OR SAFETY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE ENVIRONMENT FOR WORKERS AND THE PUBLIC AT ALL TIMES.

I. THE GENERAL CONTRACTOR SHALL ESTABLISH WITH THE OWNER CLEANUP PROCEDURES AND GUIDELINES TO BE FOLLOWED ON A DAILY BASIS IN ORDER TO CONDUCT BUSINESS IN A SAFE AND CLEAN ENVIRONMENT.

J. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, AN AREA FOR STAGING OF CONSTRUCTION MATERIALS, EQUIPMENT, DUMPSTER AND PARKING CONSTRUCTION AND DELIVERY VEHICLES. THE USE OF EXISTING REST ROOM FACILITIES SHALL BE APPROVED BY THE OWNER. ONLY THOSE DESIGNATED AREAS SHALL BE USED BY CONSTRUCTION CREWS.

K. THE GENERAL CONTRACTOR SHALL USE DUST PARTITIONS TO MINIMIZE DISTURBANCES OF DAILY OPERATIONS DURING DEMOLITION AND CONSTRUCTION WORK. DUST PARTITIONS SHALL BE CONSTRUCTED OF 2X4 WOOD STUDS @ 24"O.C., INSULATION AND 6 MIL VAPOR BARRIER ON EACH SIDE.

L. CONTACT THE DESIGNER IMMEDIATELY IF, IN THE FIELD, CONFLICTS ARE DISCOVERED BETWEEN COMPONENTS OF DIFFERENT SYSTEMS THAT PREVENT THE INSTALLATION OF THOSE COMPONENTS AS INDICATED ON THE DRAWINGS. (I.E. WHERE EXISTING MECHANICAL DUCTWORK MAY PREVENT THE INSTALLATION OF LIGHTING FIXTURES AS INDICATED ON THE CEILING PLAN).

M. SHOP DRAWINGS OR CATALOG CUTS MUST BE SUBMITTED TO ETICA GROUP, INC. FOR APPROVAL ON ALL MATERIALS OR ITEMS WHERE THE CONTRACTOR CHOOSES TO DEVIATE FROM WHAT IS SHOWN ON THE DRAWINGS, OR IF THE DRAWINGS DO NOT INDICATE A SPECIFIC MANUFACTURER OR MODEL NUMBER.

N. EXPEDITE PREPARATION AND SUBMITTAL OF ALL SHOP DRAWINGS TO ALLOW SUFFICIENT TIME FOR CHECKING, APPROVAL, ORDERING, FABRICATION, AND DELIVERY OF MATERIALS AND EQUIPMENT.

REGION TYPES

CONCRETE
MORTAR
BRICK
CONCRETE BLOCK
ALUMINUM
STEEL / METAL
WOOD
WOOD BLOCKING / HEAVY TIMBER
PLYWOOD
BATT INSULATION
RIGID INSULATION
SOLID SURFACE / PLASTIC
SAND, GYPSUM, OR AS NOTED
EARTH
GRANULAR FILL

SYMBOLS

Ref 1 A101 — SECTION HEAD OPEN
Ref 1 A101 — SECTION HEAD NO ARROW
Ref 1 A101 — SECTION HEAD FILLED
Name Elevation — LEVEL HEAD
0 — GRID HEAD
1 A101 — ELEVATION MARK BODY EXTERIOR
A101 A101 A101 A101 — ELEVATION MARK BODY INTERIOR
99 A199.9 VIEW NAME 1/8" = 1'-0"? REF:R/R101 — VIEW TITLE

TAGS

AREA NAME 150 — AREA TAG
CEIL-1 — CEILING TAG
XXX — DOOR TAG
? — MATERIAL TAG
W12A — WALL TAG
R1 — REVISION TAG
1t — WINDOW TAG
Xt — MULTI-CATEGORY TAG (TYPE MARK)
ROOM NAME 101 — ROOM TAG
ROOM NUMBER
Name 111 — OCCUPANT LOAD
101 ROOM NUMBER
150 SF ROOM AREA — LIFE SAFETY TAG
ROOM NAME 101 — ROOM NUMBER
FLOR-1 — FLOOR FINISH
BS-1 WL-1 — WALL FINISH
BASE FINISH — ROOM FINISH TAG
NAME REPLACED — ROOM PRESENTATION TAG
99 20" Y 32" — EGRESS TAG
ACTUAL LOAD
REQUIRED EGRESS WIDTH
ACTUAL EGRESS WIDTH
EGRESS CAPACITY

OTHER SYMBOLS

N — NORTH ARROW
SPOT ELEVATION
CENTERLINE
1 — PLAN NOTE

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINGER REGISTERED No AR10300002 STATE OF INDIANA ARCHITECT 7-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
GENERAL INFORMATION

SHEET NUMBER:
A001

Autodesk Docs://250060 - Carmel Fire Station 42&46/250060 Carmel Fire Station 42.rvt
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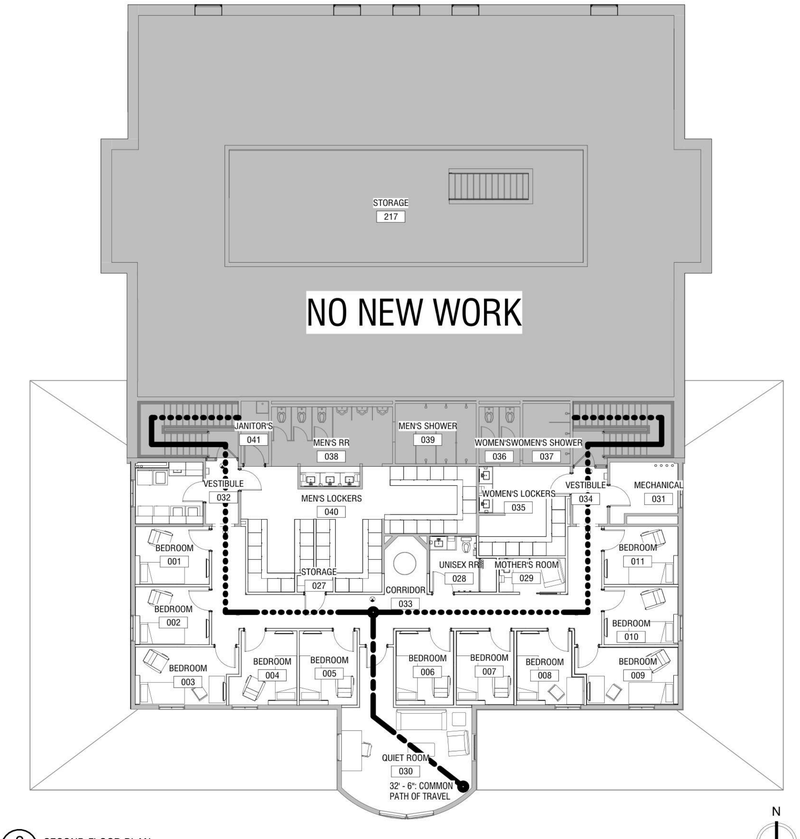
Room Schedule

Name	Number	Area	Occupancy	Occupant	Level
LEVEL 1					
VESTIBULE	101	87 SF	100	1	LEVEL 1
ENTRY	102	194 SF	100	1	LEVEL 1
CORRIDOR	103	64 SF	100	1	LEVEL 1
PANTRY	104	65 SF	300	1	LEVEL 1
PANTRY	105	56 SF	300	1	LEVEL 1
PANTRY	106	59 SF	300	1	LEVEL 1
KITCHEN	107	434 SF	15	28	LEVEL 1
DINING ROOM	108	310 SF	15	20	LEVEL 1
DAY ROOM	109	649 SF	15	43	LEVEL 1
WATCH ALCOVE	110	64 SF	100	1	LEVEL 1
TOILET	111	57 SF	100	1	LEVEL 1
TOILET	112	57 SF	100	1	LEVEL 1
DECONTAMINATION	113	125 SF	100	1	LEVEL 1
CAPTAIN OFFICE	114	142 SF	100	1	LEVEL 1
FITNESS	115	330 SF	50	6	LEVEL 1
CORRIDOR	116	37 SF	100	1	LEVEL 1
WATCH ROOM	117	473 SF	100	4	LEVEL 1
STORAGE	118	42 SF	100	1	LEVEL 1
EXERCISE	119	568 SF	50	11	LEVEL 1
CLOSET	120	27 SF	300	1	LEVEL 1
T'COM. CLOSET	121	51 SF	300	1	LEVEL 1
MECHANICAL/ELECTRICAL	122	246 SF	300	1	LEVEL 1
STAIR	124	177 SF			LEVEL 1
STAGING	125	657 SF	300	2	LEVEL 1
FIRE POLE	125b	31 SF	100	1	LEVEL 1
STAIR	126	176 SF			LEVEL 1
APPARATUS BAY	127	3509 SF	300	11	LEVEL 1
GEAR STORAGE	128	283 SF	300	1	LEVEL 1
MAINTENANCE ROOM	129	225 SF	300	1	LEVEL 1
EMS STORAGE	130	64 SF	300	1	LEVEL 1
STORAGE	131	152 SF	300	1	LEVEL 1
GEAR STORAGE	132	284 SF	300	1	LEVEL 1

Room Schedule

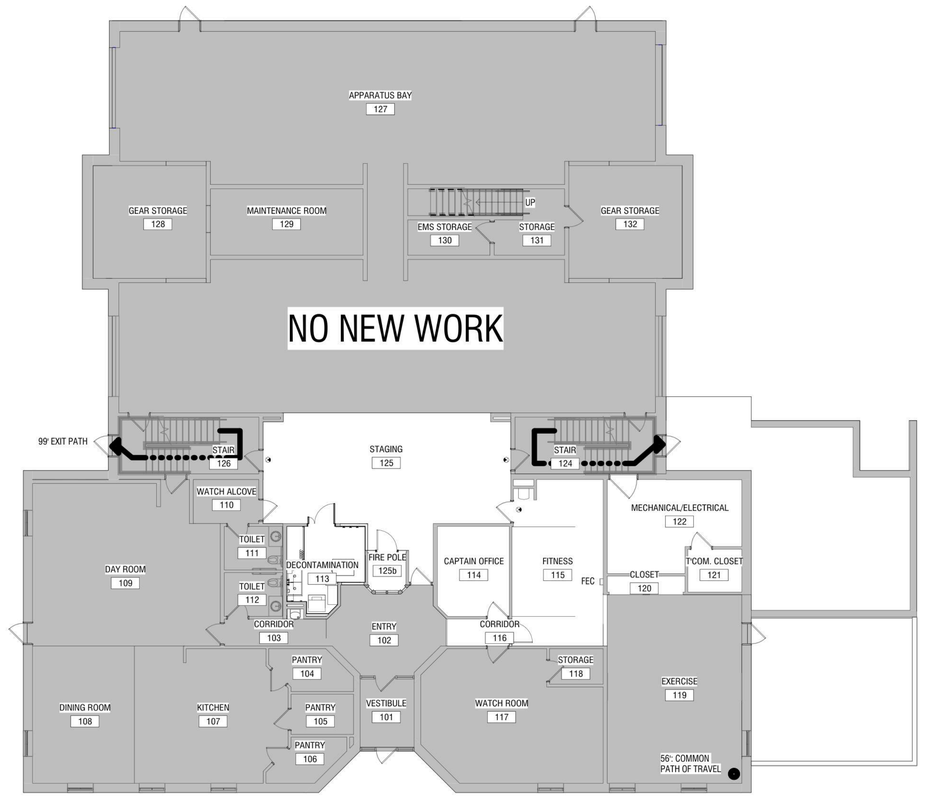
Name	Number	Area	Occupancy	Occupant	Level
LEVEL 2					
BEDROOM	001	94 SF	200	1	LEVEL 2
BEDROOM	002	94 SF	200	1	LEVEL 2
BEDROOM	003	124 SF	200	1	LEVEL 2
BEDROOM	004	98 SF	200	1	LEVEL 2
BEDROOM	005	94 SF	200	1	LEVEL 2
BEDROOM	006	94 SF	200	1	LEVEL 2
BEDROOM	007	94 SF	200	1	LEVEL 2
BEDROOM	008	98 SF	200	1	LEVEL 2
BEDROOM	009	124 SF	200	1	LEVEL 2
BEDROOM	010	94 SF	200	1	LEVEL 2
BEDROOM	011	94 SF	200	1	LEVEL 2
STORAGE	027	13 SF	300	1	LEVEL 2
UNISEX RR	028	73 SF	100	1	LEVEL 2
MOTHER'S ROOM	029	49 SF	100	1	LEVEL 2
QUIET ROOM	030	330 SF	15	19	LEVEL 2
MECHANICAL	031	81 SF	300	1	LEVEL 2
VESTIBULE	032	46 SF	100	1	LEVEL 2
CORRIDOR	033	474 SF	100	5	LEVEL 2
VESTIBULE	034	43 SF	100	1	LEVEL 2
WOMEN'S LOCKERS	035	172 SF	100	1	LEVEL 2
WOMEN'S RR	036	52 SF	100	1	LEVEL 2
WOMEN'S SHOWER	037	63 SF	100	1	LEVEL 2
MEN'S RR	038	160 SF	100	1	LEVEL 2
MEN'S SHOWER	039	108 SF	100	1	LEVEL 2
MEN'S LOCKERS	040	467 SF	100	4	LEVEL 2
JANITOR'S	041	39 SF	300	1	LEVEL 2
STORAGE	217	868 SF	300	3	LEVEL 2
Grand total: 59		13838 SF		201	

2



2 A002 SECOND FLOOR PLAN
3/32" = 1'-0" REF:2/A401

N



N

1 A002 FIRST FLOOR PLAN
3/32" = 1'-0" REF:3/A403

CODE SUMMARY

- 2012 INTERNATIONAL BUILDING CODE W/ 2014 INDIANA AMENDMENTS
- 2010 INDIANA ENERGY CONSERVATION CODE (ASHRAE 90.1-2007)
- 2006 INTERNATIONAL PLUMBING CODE W/ 2012 INDIANA AMENDMENTS
- 2008 NATIONAL ELECTRIC CODE W/ 2009 INDIANA AMENDMENTS
- 2012 INTERNATIONAL MECHANICAL CODE W/ 2014 INDIANA AMENDMENTS
- 2012 INTERNATIONAL FIRE CODE W/ 2014 INDIANA AMENDMENTS

PROJECT LOCATION:
3610 W. 106th ST.
CARMEL, IN 46032

PROJECT SCOPE:

CARMEL FIRE DEPARTMENT STATION 42 IS BEING RENOVATED TO PROVIDE INDIVIDUAL SLEEPING ROOMS AND ASSOCIATED UPGRADES ON THE SECOND FLOOR AND NEW DECONTAMINATION FACILITIES ON THE FIRST FLOOR.

OCCUPANCY CLASSIFICATION:
BUSINESS GROUP B - FIRE STATION (SECTION 304.1)

CONSTRUCTION TYPE:
TYPE V-B (SECTION 602.5)
ALLOWABLE AREA (PER STORY): (SECTION 506.1)
TABULAR AREA: 9,000 SF (TABLE 503)
FRONTAGE INCREASE: 6,750 SF (SECTION 506.2)
SPRINKLER INCREASE: 18,000 SF (SECTION 506.3)
TOTAL ALLOWABLE: 33,750 SF

TOTAL BUILDING SF: 11,390 SF 1ST FLOOR
5,125 SF 2ND FLOOR & MEZZANINE
16,515 SF TOTAL

ALLOWABLE HEIGHT AND STORIES:
TWO-STORIES PERMITTED FOR BUILDINGS OF GROUP B OCCUPANCY AND TYPE V-B CONSTRUCTION. FACILITY IS TWO-STORY.

BUILDING ELEMENTS, FIRE RESISTIVE REQUIREMENTS (SECTION 602.5)

STRUCTURAL FRAME 0 HRS(TABLE 601 & 602)
BEARING WALLS
EXTERIOR 0 HRS
INTERIOR 0 HRS
NONBEARING WALLS / PARTITIONS EXTERIOR 0 HRS
NONBEARING WALLS / PARTITIONS INTERIOR 0 HRS
FLOOR CONSTRUCTION 0 HRS
ROOF CONSTRUCTION 0 HRS

FIRE WALLS:
A FIRE WALL IS NOT REQUIRED SINCE THE ACTUAL AREA IS LESS THAN THE ALLOWABLE AREA.

FIRE BARRIERS:
STAIRWAYS ARE NOT REQUIRED TO BE ENCLOSED (SECTION 1009.3 EXCEPTION 4)

FIRE PARTITIONS:
NONE REQUIRED.

NON-RELATED INCIDENTAL USE SEPERATION: NOT REQUIRED (TABLE 509)

CORRIDORS: 0-HR (TABLE 1012.1)

DEADEND CORRIDOR: 50' MAX (1018.4 EXCEPTION 2)

COMMON PATH OF EGRESS: 100' MAX (TABLE 1014.3)

EXIT ACCESS TRAVEL DISTANCE: 300' MAX

AUTOMATIC SPRINKLER REQUIREMENTS:
THE EXISTING BUILDING IS SPRINKLERED.

AREA OF REFUGE
AREA OF REFUGE IS NOT REQUIRED (SECTION 1007.3 EXCEPTION 2)

PLUMBING FIXTURE COUNT
159 MEN (75%)
5 WC REQUIRED / 4 WC & 3 URINALS PROVIDED
3 LAVS REQUIRED / 4 LAVS PROVIDED

53 WOMEN (25%)
3 WC / 4 WC PROVIDED (INCLUDING UNISEX RR)
2 LAVS / 4 LAVS PROVIDED (INCLUDING UNISEX RR)

3 DF REQUIRED / 2 DF PROVIDED PLUS ACCESS TO DRINKING WATER IN KITCHEN
1 SS REQUIRED / 1 SS PROVIDED

LIFE SAFETY NOTES

A. FIRE EXTINGUISHERS: EXISTING FIRE EXTINGUISHER CABINETS AND EXTINGUISHERS ARE TO REMAIN IN EXISTING LOCATIONS

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City of Carmel
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PROFESSIONAL SEAL:
TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
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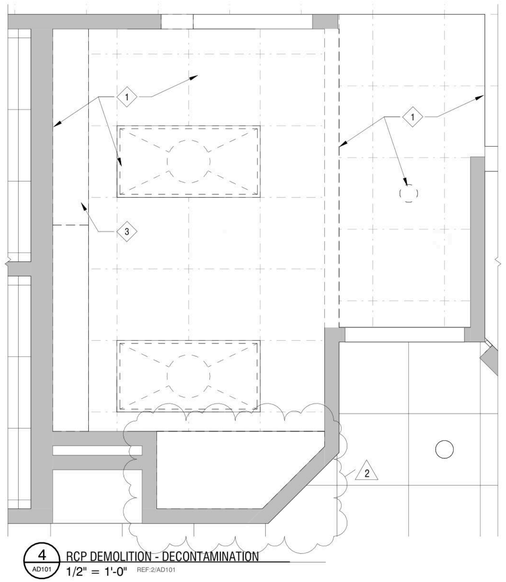
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DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

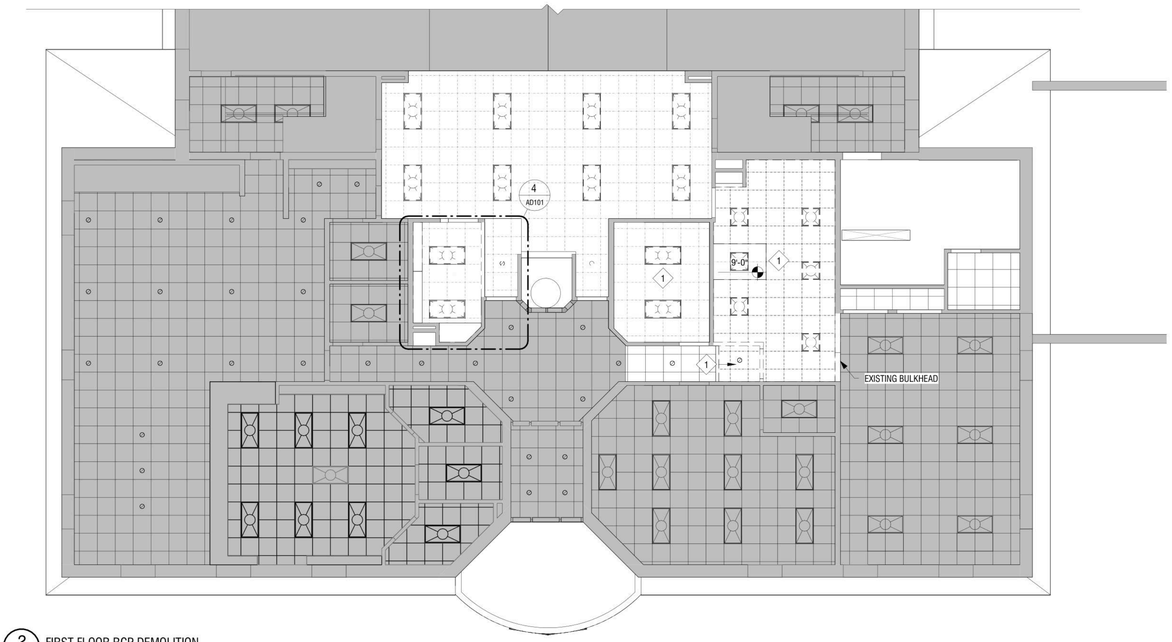
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FIRE & LIFE SAFETY PLANS

SHEET NUMBER:
A002

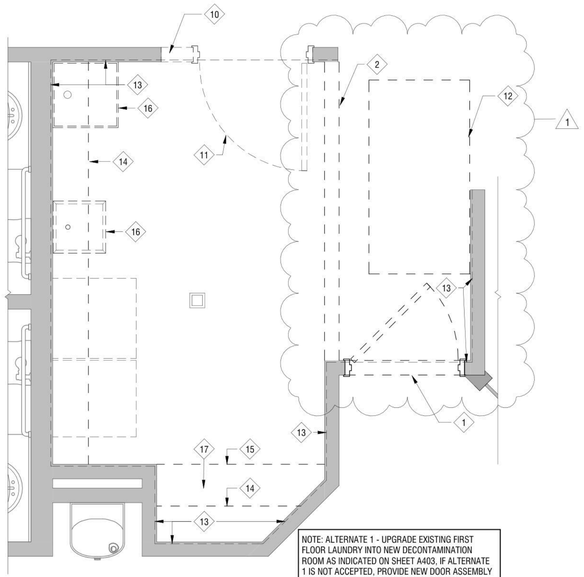
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4 AD101 RCP DEMOLITION - DECONTAMINATION
1/2" = 1'-0" REF:2/AD101

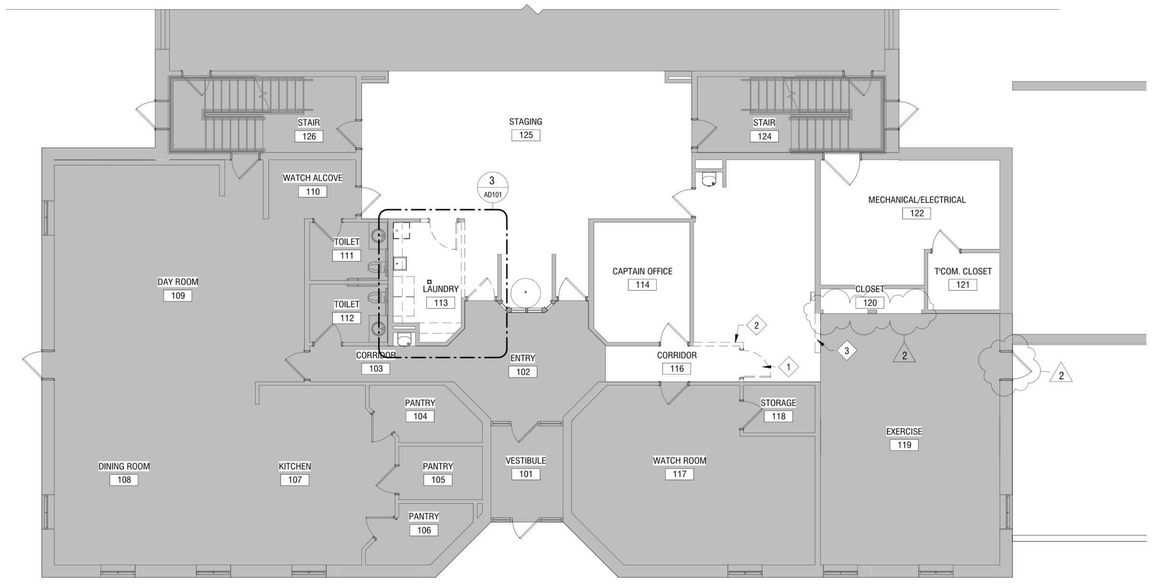


2 AD101 FIRST FLOOR RCP DEMOLITION
1/8" = 1'-0" REF:3/A403



NOTE: ALTERNATE 1 - UPGRADE EXISTING FIRST FLOOR LAUNDRY INTO NEW DECONTAMINATION ROOM AS INDICATED ON SHEET A403, IF ALTERNATE 1 IS NOT ACCEPTED, PROVIDE NEW DOOR ASSEMBLY AS CALLED OUT IN DOOR SCHEDULE IN NEW PARTITION AT BASE OF FIRE POLE.

3 AD101 FIRST FLOOR DEMOLITION PLAN - DECONTAMINATION
1/2" = 1'-0" REF:1/AD101



1 AD101 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0" REF:3/A403

GENERAL DEMOLITION PLAN NOTES

A. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY DEMOLITION WORK AND SCHEDULED TO RECEIVE NEW CONSTRUCTION, SHALL BE REPAIRED AND PATCHED AS REQUIRED TO CLEANLY AND SOUNDLY RECEIVE NEW WORK.

B. ALL EXISTING SURFACE LOCATED ADJACENT TO DEMOLITION WORK AND SCHEDULE TO REMAIN EXPOSED AFTER COMPLETION OF NEW CONSTRUCTION SHALL BE REPAIRED AND PATCHED AS REQUIRED TO MATCH EXISTING.

C. WHERE DEMOLITION WORK EXPOSED AND UNFINISHED SURFACE OR CONDITION IN A SURFACE TO REMAIN EXPOSED, THE CONTRACTOR SHALL PATCH, REPAIR, AND PREPARE SUCH SURFACE OR CONDITION AS REQUIRED TO PROPERLY RECEIVE NEW FINISHES AND TO MATCH THE EXISTING ADJACENT SURFACE.

D. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURFACES, MATERIALS, AND COMPONENTS TO REMAIN. ANY DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REPAIRED BY THE CONRACTOR T...

E. CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS. PATCH ALL AREAS REQUIRE TO ACCEPT NEW HVAC, PLUMBING, AND ELECTRICAL WORK. PATCH AND REPAIR TO A FINISHED CONDITION INDICATED IN THE DRAWINGS OR TO MATCH EXISTING.

F. THE CONTRACTOR SHALL REVIEW IN ADVANCE ALL PORTIONS OF THE WORK TO VERIFY THAT THE WORK WILL NOT PROHIBIT COMPLETION OF THE PROJECT AS INTENDED. ANY QUESTIONS SHALL PROMPTLY REFERRED TO THE ARCHITECT FOR RESOLUTION.

G. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT OF WORK.

KEY NOTES - RCP DEMOLITION

NO.	DESCRIPTION
1.	REMOVE EXISTING CEILING AND FIXTURES AND PREP FOR NEW WORK. SALVAGE EXISTING CEILING TILES FOR POSSIBLE REUSE. COORDINATE WITH OWNER
3.	RECONFIGURE EXISTING BULKHEAD TO ACCOMODATE NEW WORK

DEMOLITION LEGEND

- EXISTING ITEM TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING DOOR & FRAME TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING MASONRY WALL TO BE REMOVED
- EXISTING CONCRETE WALL TO BE REMOVED
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING GLAZING TO BE REMOVED
- PLAN NOTE DESIGNATION

KEY NOTES - DEMOLITION

NO.	DESCRIPTION
1.	REMOVE EXISTING DOOR ASSEMBLY IN ITS ENTIRETY INCLUDING FRAME AND HARDWARE AND STORE FOR REUSE
2.	REMOVE EXISTING PARTITION IN ITS ENTIRETY
3.	EXPAND EXISTING GWB WRAPPED OPENING TO CLOSET WALL. REFRAME HEADER FOR LARGER OPENING. HEAD HEIGHT TO REMAIN THE SAME.
4.	DEMOLISH EXISTING CASEWORK AND LOW PARTITIONS.
5.	REMOVE EXISTING LOCKERS.
6.	REMOVE EXISTING BENCH
7.	DEMOLISH EXISTING COUNTERTOP, SINKS, CABINET, AND MIRROR
8.	REMOVE EXISTING FLOOR FINISH. PREP SURFACE FOR NEW FLOOR FINISH
9.	NOT USED
10.	EXPAND EXISTING DOOR FRAMING TO ACCOMODATE LARGER DOOR, SEE DOOR SCHEDULE
11.	REMOVE EXISTING DOOR ASSEMBLY IN IT'S ENTIRETY.
12.	CUT SLAB TO TIE NEW TRENCH DRAIN INTO EXISTING FLOOR DRAIN SYSTEM, SEE PLUMING DRAWINGS
13.	REMOVE EXISTING GWB ON LAUNDRY ROOM SIDE OF WALL ON ONE SIDE AS INDICATED BY DASHED LINE
14.	REMOVE EXISTING WALL CABINETS AND SALVAGE FOR RE-USE
15.	REMOVE EXISTING BASE CABINETS AND COUNTERTOP
16.	REMOVE EXISTING PLUMBING FIXTURE
17.	REMOVE EXISTING WASHER AND DRYER - COORDINATE WITH OWNER
18.	REMOVE EXISTING GWB ON LAUNDRY ROOM SIDE OF WALL AS INDICATED BY DASHED LINE
19.	REMOVE EXISTING GWB ON UNISEX RESTROOM SIDE OF WALL AS INDICATED BY DASHED LINE
20.	REMOVE EXISTING DOOR AND HARDWARE. FRAME CAN REMAIN IN PLACE. PREP EXISTING FRAME FOR NEW DOOR AND HARDWARE.

Etica GROUP

Renovation of Station 42
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PROFESSIONAL SEAL:
TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
2	Pre-bid Changes		8-14-2026
1	Extractor Changes		07-15-2026

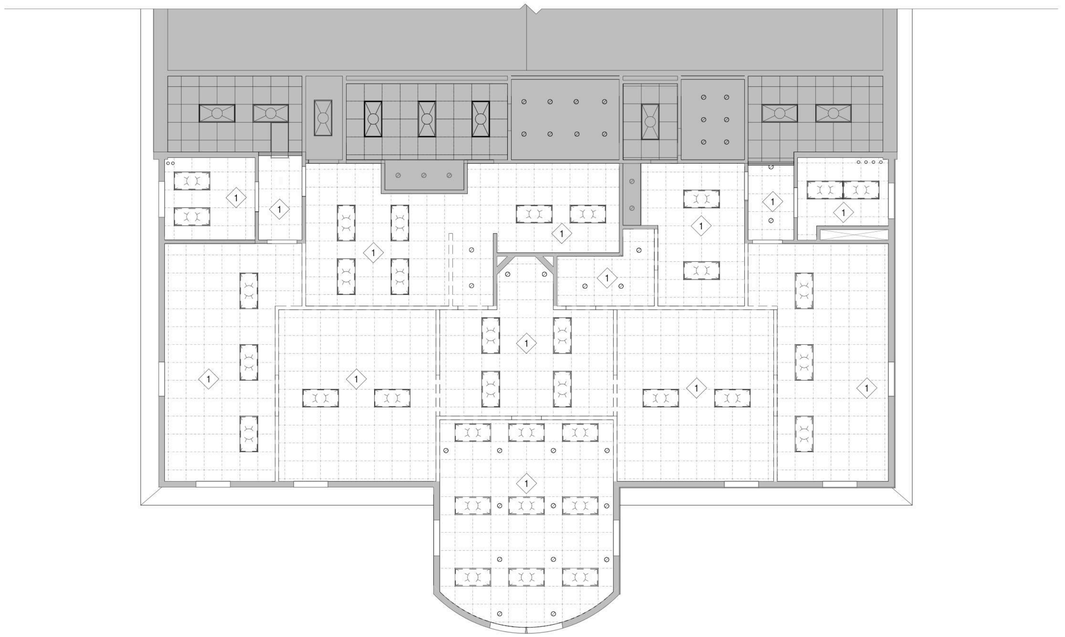
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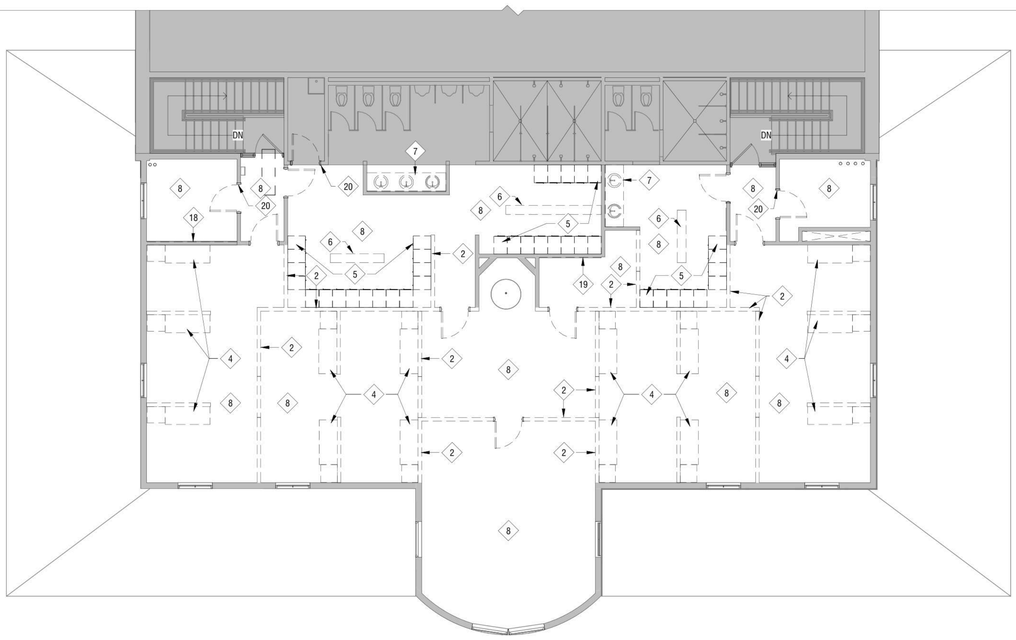
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FIRST FLOOR DEMOLITION PLANS

SHEET NUMBER:
AD101

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2 AD102 SECOND FLOOR DEMOLITION
1/8" = 1'-0" REF:2/A401



1 AD102 SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0" REF:2/A401

GENERAL DEMOLITION PLAN NOTES

A. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY DEMOLITION WORK AND SCHEDULED TO RECEIVE NEW CONSTRUCTION, SHALL BE REPAIRED AND PATCHED AS REQUIRED TO CLEANLY AND SOUNDLY RECEIVE NEW WORK.

B. ALL EXISTING SURFACE LOCATED ADJACENT TO DEMOLITION WORK AND SCHEDULE TO REMAIN EXPOSED AFTER COMPLETION OF NEW CONSTRUCTION SHALL BE REPAIRED AND PATCHED AS REQUIRED TO MATCH EXISTING.

C. WHERE DEMOLITION WORK EXPOSED AND UNFINISHED SURFACE OR CONDITION IN A SURFACE TO REMAIN EXPOSED, THE CONTRACTOR SHALL PATCH, REPAIR, AND PREPARE SUCH SURFACE OR CONDITION AS REQUIRED TO PROPERLY RECEIVE NEW FINISHES AND TO MATCH THE EXISTING ADJACENT SURFACE.

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F. THE CONTRACTOR SHALL REVIEW IN ADVANCE ALL PORTIONS OF THE WORK TO VERIFY THAT THE WORK WILL NOT PROHIBIT COMPLETION OF THE PROJECT AS INTENDED. ANY QUESTIONS SHALL PROMPTLY REFERRED TO THE ARCHITECT FOR RESOLUTION.

G. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT OF WORK.

KEY NOTES - RCP DEMOLITION

NO.	DESCRIPTION
1.	REMOVE EXISTING CEILING AND FIXTURES AND PREP FOR NEW WORK. SALVAGE EXISTING CEILING TILES FOR POSSIBLE REUSE. COORDINATE WITH OWNER
3.	RECONFIGURE EXISTING BULKHEAD TO ACCOMODATE NEW WORK

DEMOLITION LEGEND

- EXISTING ITEM TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING DOOR & FRAME TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING MASONRY WALL TO BE REMOVED
- EXISTING CONCRETE WALL TO BE REMOVED
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING GLAZING TO BE REMOVED
- PLAN NOTE DESIGNATION

KEY NOTES - DEMOLITION

NO.	DESCRIPTION
1.	REMOVE EXISTING DOOR ASSEMBLY IN ITS ENTIRETY INCLUDING FRAME AND HARDWARE AND STORE FOR REUSE
2.	REMOVE EXISTING PARTITION IN ITS ENTIRETY
3.	EXPAND EXISTING GWB WRAPPED OPENING TO CLOSET WALL. REFRAME HEADER FOR LARGER OPENING. HEAD HEIGHT TO REMAIN THE SAME.
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5.	REMOVE EXISTING LOCKERS.
6.	REMOVE EXISTING BENCH
7.	DEMOLISH EXISTING COUNTERTOP, SINKS, CABINET, AND MIRROR
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10.	EXPAND EXISTING DOOR FRAMING TO ACCOMODATE LARGER DOOR, SEE DOOR SCHEDULE
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13.	REMOVE EXISTING GWB ON LAUNDRY ROOM SIDE OF WALL ON ONE SIDE AS INDICATED BY DASHED LINE
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PROFESSIONAL SEAL:

TODY J. WINICKI REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

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1	Extractor Changes		07-15-2026

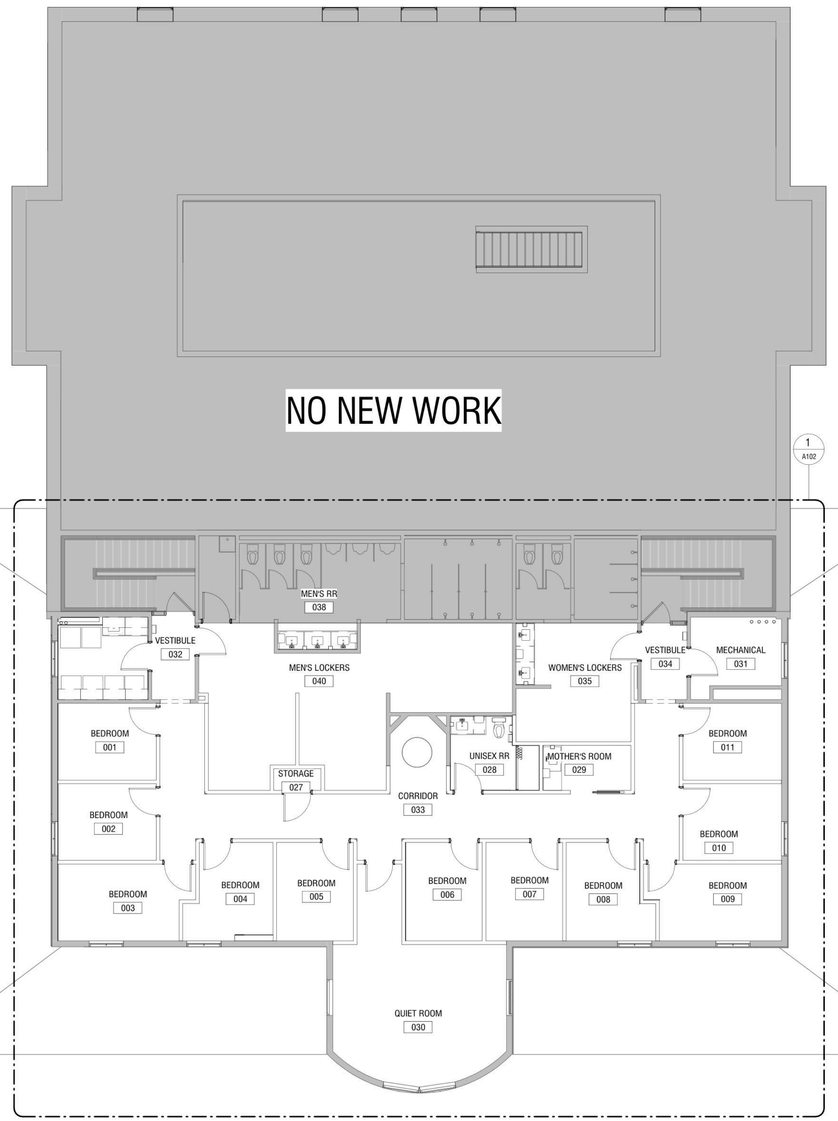
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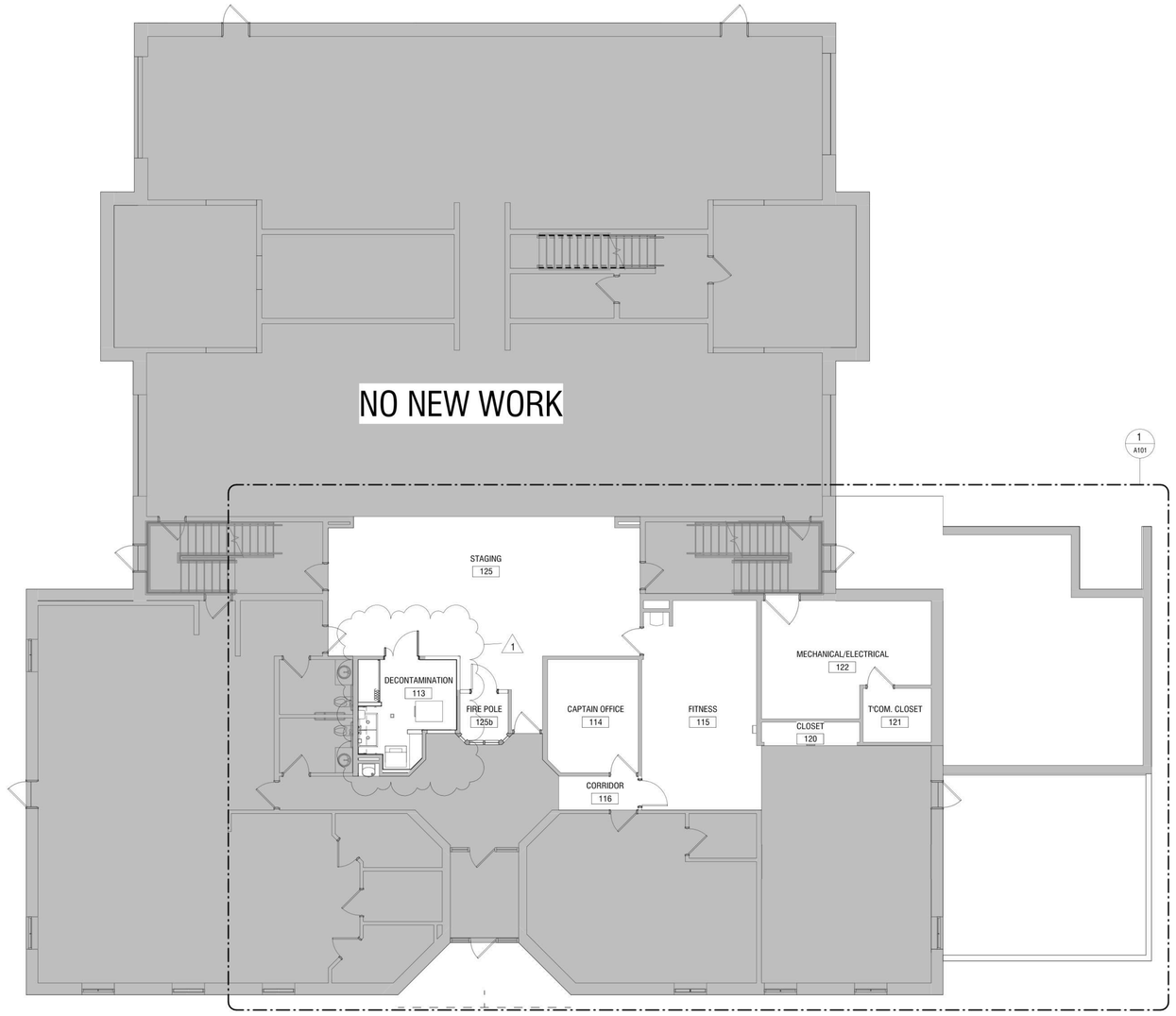
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SECOND FLOOR DEMOLITION PLANS

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AD102

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2 A100 SECOND FLOOR PLAN
1/8" = 1'-0" REF:2/A401



1 A100 FIRST FLOOR PLAN
1/8" = 1'-0" REF:3/A403

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PROFESSIONAL SEAL:

TOBY J. WINGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 7-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Extractor Changes		07-15-2026

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
OVERALL PLANS

SHEET NUMBER:
A100

GENERAL FINISH NOTES

A. ALL FINISHES SHALL COMPLY WITH CHAPTER 8 (INTERIOR FINISHES) OF THE 2014 INDIANA BUILDING CODE FOR CLASS C FIRE RATINGS.

B. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON DRAWINGS.

C. FOR NEW ELECTRICAL, THERMOSTATS AND OTHER DEVICES, COORDINATION COLOR SELECTION WITH ETICA GROUP PRIOR TO INSTALLATION.

D. ALL AREAS TO RECEIVE PAINT ARE TO RECEIVED PRIMER COAT AND TWO COATS OF FINISH.

E. FOR CHANGES IN FLOOR MATERIAL, PROVIDE TRANSITION STRIPS BETWEEN FLOORING OF DIFFERING MATERIALS. WHERE MATERIAL CHANGES AT A DOOR OPENING, FINISH CHANGE SHOULD OCCUR CENTERED UNDER THE DOOR.

F. SUBMIT SAMPLES OF MILLWORK, CASWORK AND WOOD DOORS (STAINED OR PAINTED) TO ETICA GROUP FOR REVIEW AND APPROVAL PRIOR TO FINISHING OF MATERIALS.

G. REFER TO INTERIOR ELEVATIONS & SECTIONS WHERE PROVIDED FOR ADDITIONAL FINISH INFORMATION. NOTE ANY DISCREPANCIES TO THE ETICA GROUP.

H. PROVIDE SEALANT SAMPLES FOR SELECTION BY THE ETICA GROUP FOR ALL INTERIOR SEALANT APPLICATIONS. CLEAR SILCONE SEALANTS ARE NOT ACCEPTABLE.

I. INSTALL CORNER GUARDS ON ALL OUTSIDE CORNERS AS NOTED ON PLANS

GENERAL FLOOR PLAN NOTES

A. ALL DIMENSIONS ARE SHOWN TO FACE OF STUD, MASONRY, OR COLUMN CENTERLINES UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS CLEAR ("CLR") INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.

B. ALL DOOR FRAMES ARE LOCATED 4-INCHES FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

C. SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.

D. ALL GYPSUM WALL BOARD SHALL BE 5/8" TYPE 'X' UNLESS NOTED OTHERWISE. PROVIDE LEVEL 4 FINISH UNLESS NOTED OTHERWISE.

E. MANUFACTURERS LISTED IN THE CONSTRUCTION DOCUMENTS ARE FOR "BASIS-OF-DESIGN". SUBSTITUTIONS SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS AND ASTM STANDARDS LISTED IN THE SPECIFICATIONS TO BE CONSIDERED AN APPROVED EQUAL BY THE OWNER AND ARCHITECT OF RECORD.

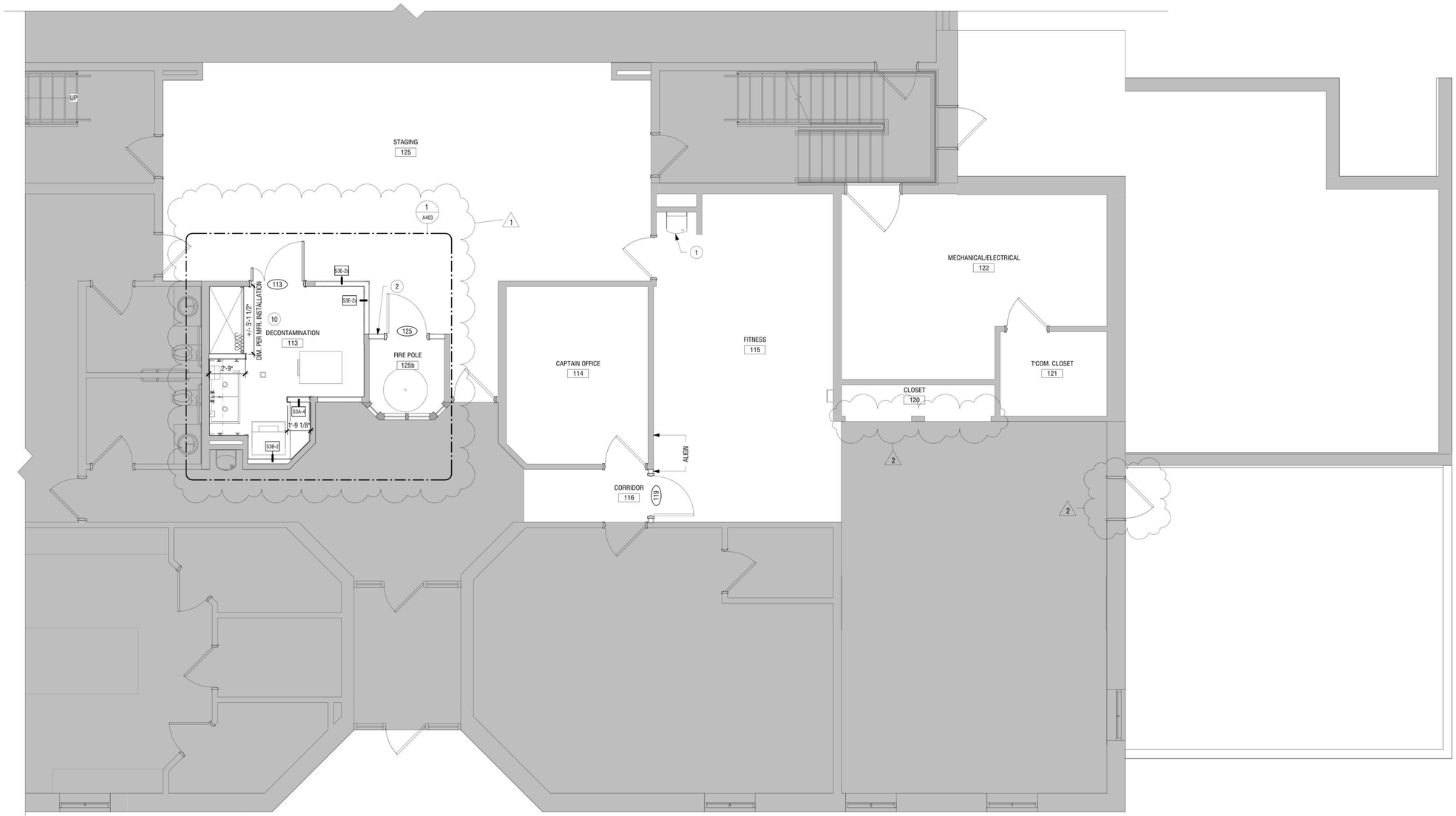
F. INSTALL BLOCKING INSIDE WALL FOR INSTALLATION OF WALL HUNG EQUIPMENT INCLUDING OWNER PROVIDED EQUIPMENT. COORDINATION LOCATION OF BLOCKING WITH ARCHITECT PRIOR TO INSTALLATION.

G. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT OF WORK.

H. ALL INTERIOR WALLS ARE S3A-2a UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.

KEY NOTES - FLOOR PLAN

NO.	DESCRIPTION
1.	NEW BOTTLE FILLER
2.	NEW WALL TO ALIGN WITH EDGE OF EXISTING GWB CEILING
3.	NEW VENTED LOCKER WITH BENCH, 24" W X 24" D X 84" TALL
4.	SHOWER WITH HOSE BIB
5.	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
6.	EXISTING FIRE POLE OPENING
7.	FUTURE EXTRACTOR, PROVIDE ROUGH-INS ONLY
8.	EXTEND LOCKER FRONT, DRAWER BASE FRONT, AND BENCH AROUND CORNER AND TO END WALL AS SHOWN TO CREATE CONTINUOUS INSTALLATION
9.	INFILL WALL WHERE DOOR IS REMOVED TO MATCH SURROUNDING CONSTRUCTION
10.	INSTALL MOISTURE RESISTANT GWB, FULL HEIGHT OF STUDS, ON DECONTAMINATION SIDE OF EXISTING WALLS AND BULKHEADS. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 49 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
11.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE, ADD ACOUSTIC INSULATION AND MOISTURE RESISTANT GWB TO LAUNDRY ROOM SIDE OF WALL, ADD AN ADDITIONAL LAYER OF GWB TO BUNKROOM SIDE OF WALL, AND SEAL TO MEET ACOUSTIC RATING OF 50 STC MIN. DEPENDING ON EXISTING WALL CONSTRUCTION.
12.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE.
13.	INSTALL MOISTURE RESISTANT GWB ON UNISEX RESTROOM SIDE OF WALL. EXTEND TO UNDERSIDE OF GWB LID ABOVE. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
14.	CORNER GUARD
15.	18" DEEP ADJUSTABLE SHELVES ON STANDARDS, PROVIDE FIVE SHELVES
16.	FLOOR FINISH MATERIALTRANSITION LINE - SEE SHEET A601 FOR DETAILS
17.	PROVIDE HOLLOW METAL FRAME CASED OPENING



Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

TODD J. WINGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
2	Pre-bid Changes		8-14-2026
1	Extractor Changes		07-15-2026

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
FIRST FLOOR PLAN

SHEET NUMBER:
A101

Autodesk Docs://250060 - Carmel Fire Station 42&46/250060 Carmel Fire Station 42.rvt
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GENERAL FINISH NOTES

A. ALL FINISHES SHALL COMPLY WITH CHAPTER 8 (INTERIOR FINISHES) OF THE 2014 INDIANA BUILDING CODE FOR CLASS C FIRE RATINGS.

B. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON DRAWINGS.

C. FOR NEW ELECTRICAL, THERMOSTATS AND OTHER DEVICES, COORDINATION COLOR SELECTION WITH ETICA GROUP PRIOR TO INSTALLATION.

D. ALL AREAS TO RECEIVE PAINT ARE TO RECEIVED PRIMER COAT AND TWO COATS OF FINISH.

E. FOR CHANGES IN FLOOR MATERIAL, PROVIDE TRANSITION STRIPS BETWEEN FLOORING OF DIFFERING MATERIALS. WHERE MATERIAL CHANGES AT A DOOR OPENING, FINISH CHANGE SHOULD OCCUR CENTERED UNDER THE DOOR.

F. SUBMIT SAMPLES OF MILLWORK, CASWORK AND WOOD DOORS (STAINED OR PAINTED) TO ETICA GROUP FOR REVIEW AND APPROVAL PRIOR TO FINISHING OF MATERIALS.

G. REFER TO INTERIOR ELEVATIONS & SECTIONS WHERE PROVIDED FOR ADDITIONAL FINISH INFORMATION. NOTE ANY DISCREPANCIES TO THE ETICA GROUP.

H. PROVIDE SEALANT SAMPLES FOR SELECTION BY THE ETICA GROUP FOR ALL INTERIOR SEALANT APPLICATIONS. CLEAR SILCONE SEALANTS ARE NOT ACCEPTABLE.

I. INSTALL CORNER GUARDS ON ALL OUTSIDE CORNERS AS NOTED ON PLANS

GENERAL FLOOR PLAN NOTES

A. ALL DIMENSIONS ARE SHOWN TO FACE OF STUD, MASONRY, OR COLUMN CENTERLINES UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS CLEAR ("CLR") INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.

B. ALL DOOR FRAMES ARE LOCATED 4-INCHES FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

C. SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.

D. ALL GYPSUM WALL BOARD SHALL BE 5/8" TYPE 'X' UNLESS NOTED OTHERWISE. PROVIDE LEVEL 4 FINISH UNLESS NOTED OTHERWISE.

E. MANUFACTURERS LISTED IN THE CONSTRUCTION DOCUMENTS ARE FOR "BASIS-OF-DESIGN". SUBSTITUTIONS SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS AND ASTM STANDARDS LISTED IN THE SPECIFICATIONS TO BE CONSIDERED AN APPROVED EQUAL BY THE OWNER AND ARCHITECT OF RECORD.

F. INSTALL BLOCKING INSIDE WALL FOR INSTALLATION OF WALL HUNG EQUIPMENT INCLUDING OWNER PROVIDED EQUIPMENT. COORDINATION LOCATION OF BLOCKING WITH ARCHITECT PRIOR TO INSTALLATION.

G. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT OF WORK.

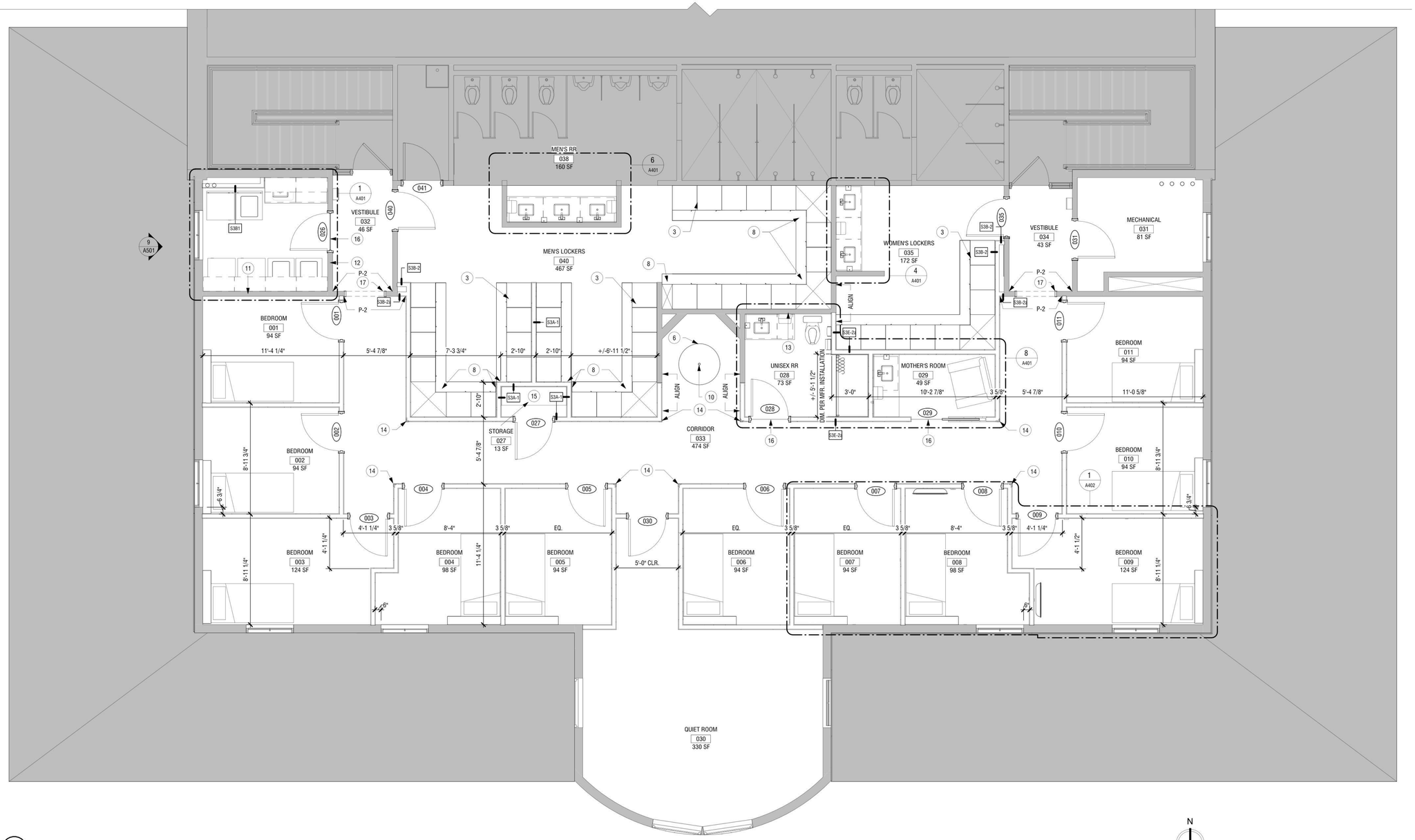
H. ALL INTERIOR WALLS ARE S3A-2a UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.

KEY NOTES - FLOOR PLAN

NO.	DESCRIPTION
1.	NEW BOTTLE FILLER
2.	NEW WALL TO ALIGN WITH EDGE OF EXISTING GWB CEILING
3.	NEW VENTED LOCKER WITH BENCH, 24" W X 24" D X 84" TALL
4.	SHOWER WITH HOSE BIB
5.	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
6.	EXISTING FIRE POLE OPENING
7.	FUTURE EXTRACTOR, PROVIDE ROUGH-INS ONLY
8.	EXTEND LOCKER FRONT, DRAWER BASE FRONT, AND BENCH AROUND CORNER AND TO END WALL AS SHOWN TO CREATE CONTINUOUS INSTALLATION
9.	INFILL WALL WHERE DOOR IS REMOVED TO MATCH SURROUNDING CONSTRUCTION
10.	INSTALL MOISTURE RESISTANT GWB, FULL HEIGHT OF STUDS, ON DECONTAMINATION SIDE OF EXISTING WALLS AND BULKHEADS. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
11.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE. ADD ACOUSTIC INSULATION AND MOISTURE RESISTANT GWB TO LAUNDRY ROOM SIDE OF WALL. ADD AN ADDITIONAL LAYER OF GWB TO BUNKROOM SIDE OF WALL, AND SEAL TO MEET ACOUSTIC RATING OF 50 STC MIN. DEPENDING ON EXISTING WALL CONSTRUCTION.
12.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE.

KEY NOTES - FLOOR PLAN

NO.	DESCRIPTION
13.	INSTALL MOISTURE RESISTANT GWB ON UNISEX RESTROOM SIDE OF WALL. EXTEND TO UNDERSIDE OF GWB LID ABOVE. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
14.	CORNER GUARD
15.	18" DEEP ADJUSTABLE SHELVES ON STANDARDS, PROVIDE FIVE SHELVES
16.	FLOOR FINISH MATERIALTRANSITION LINE - SEE SHEET A601 FOR DETAILS
17.	PROVIDE HOLLOW METAL FRAME CASED OPENING



1 A102 SECOND FLOOR PLAN
1/4" = 1'-0"

N

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER: 250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE: SECOND FLOOR PLAN

SHEET NUMBER: A102

Autodesk Docs://250060 - Carmel Fire Station 42&46/250060 Carmel Fire Station 42.rvt
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GENERAL CEILING PLAN NOTES

A. ALL NEW CEILING GRIDS ARE CENTERED IN ROOMS IN EACH DIRECTION UNLESS NOTED OTHERWISE. NO TILE SHOULD BE LESS THAN 6-INCHES WIDE AT THE EDGES.

B. COORDINATION OF DUCTWORK, PIPING, LIGHTS AND CEILING SUPPORTS ARE THE RESPONSIBILITY OF THE TRADE CONTRACTORS. CONTRACTORS WILL ACCEPT RESPONSIBILITY TO RELOCATE ITEMS THAT CONFLICT DUE TO LACK OF COORDINATION.

C. CENTER CEILING ELEMENTS IN CEILING TILES, INCLUDING RECESSED DOWN LIGHTS, SMOKE DETECTORS, SPRINKLER HEADS, OCCUPANCY SENSORS, SPEAKERS, CEILING FANS, AND EXIT SIGNS UNLESS OTHERWISE NOTED.

D. ALL NEW CEILINGS TO BE 2'X2' ACOUSTIC PANEL CEILING. REFER TO FINISH AND ROOM SCHEDULES FOR TYPES.

E. CEILING HEIGHTS TO MATCH EXISTING UNLESS NOTED OTHERWISE.

F. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT...

G. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.

H. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.

KEY NOTES - CEILING PLAN

NO.	DESCRIPTION
1	NEW GYPSUM BULKHEAD
2	OPEN TO GWB LID ABOVE

REFLECTED CEILING PLAN LEGEND

NEW	DEMO	EXISTING TO REMAIN
CEILING GRID, SUSPENDED, 2' X 2'	CEILING GRID, SUSPENDED, 2' X 2'	CEILING GRID, SUSPENDED, 2' X 2'
CEILING GRID, SUSPENDED, 2' X 4'	CEILING GRID, SUSPENDED, 2' X 4'	CEILING GRID, SUSPENDED, 2' X 4'
GYPSUM BOARD CEILING	GYPSUM BOARD CEILING	GYPSUM BOARD CEILING
ACT-12 12'-0" A.F.F. — CEILING TYPE / CEILING HEIGHT		
LINEAR LIGHT FIXTURE		
2 X 2 LIGHT FIXTURE, EMERGENCY		
2 X 4 LIGHT FIXTURE		
2 X 2 LIGHT FIXTURE		
CAN LIGHT FIXTURE		
DIRECTIONAL EXIT SIGN		
EMERGENCY EXIT LIGHT		
SPRINKLER HEAD (VARIES)		
RETURN AIR DIFFUSER		
SUPPLY AIR DIFFUSER		
SPEAKER		
OCCUPANCY SENSOR		
SMOKE DETECTOR		
CEILING FAN		



1 / A103 LEVEL 1 CEILING
1/4" = 1'-0" REF:3/A403

N

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
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Carmel, IN 46032

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TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
2	Pre-bid Changes		8-14-2026

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
CEILING PLAN - FIRST

SHEET NUMBER:
A103

Autodesk Docs://250060 - Carmel Fire Station 42&46/250060 Carmel Fire Station 42.rvt
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GENERAL CEILING PLAN NOTES

A. ALL NEW CEILING GRIDS ARE CENTERED IN ROOMS IN EACH DIRECTION UNLESS NOTED OTHERWISE. NO TILE SHOULD BE LESS THAN 6-INCHES WIDE AT THE EDGES.

B. COORDINATION OF DUCTWORK, PIPING, LIGHTS AND CEILING SUPPORTS ARE THE RESPONSIBILITY OF THE TRADE CONTRACTORS. CONTRACTORS WILL ACCEPT RESPONSIBILITY TO RELOCATE ITEMS THAT CONFLICT DUE TO LACK OF COORDINATION.

C. CENTER CEILING ELEMENTS IN CEILING TILES, INCLUDING RECESSED DOWN LIGHTS, SMOKE DETECTORS, SPRINKLER HEADS, OCCUPANCY SENSORS, SPEAKERS, CEILING FANS, AND EXIT SIGNS UNLESS OTHERWISE NOTED.

D. ALL NEW CEILINGS TO BE 2'X2' ACOUSTIC PANEL CEILING. REFER TO FINISH AND ROOM SCHEDULES FOR TYPES.

E. CEILING HEIGHTS TO MATCH EXISTING UNLESS NOTED OTHERWISE.

F. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT...

G. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.

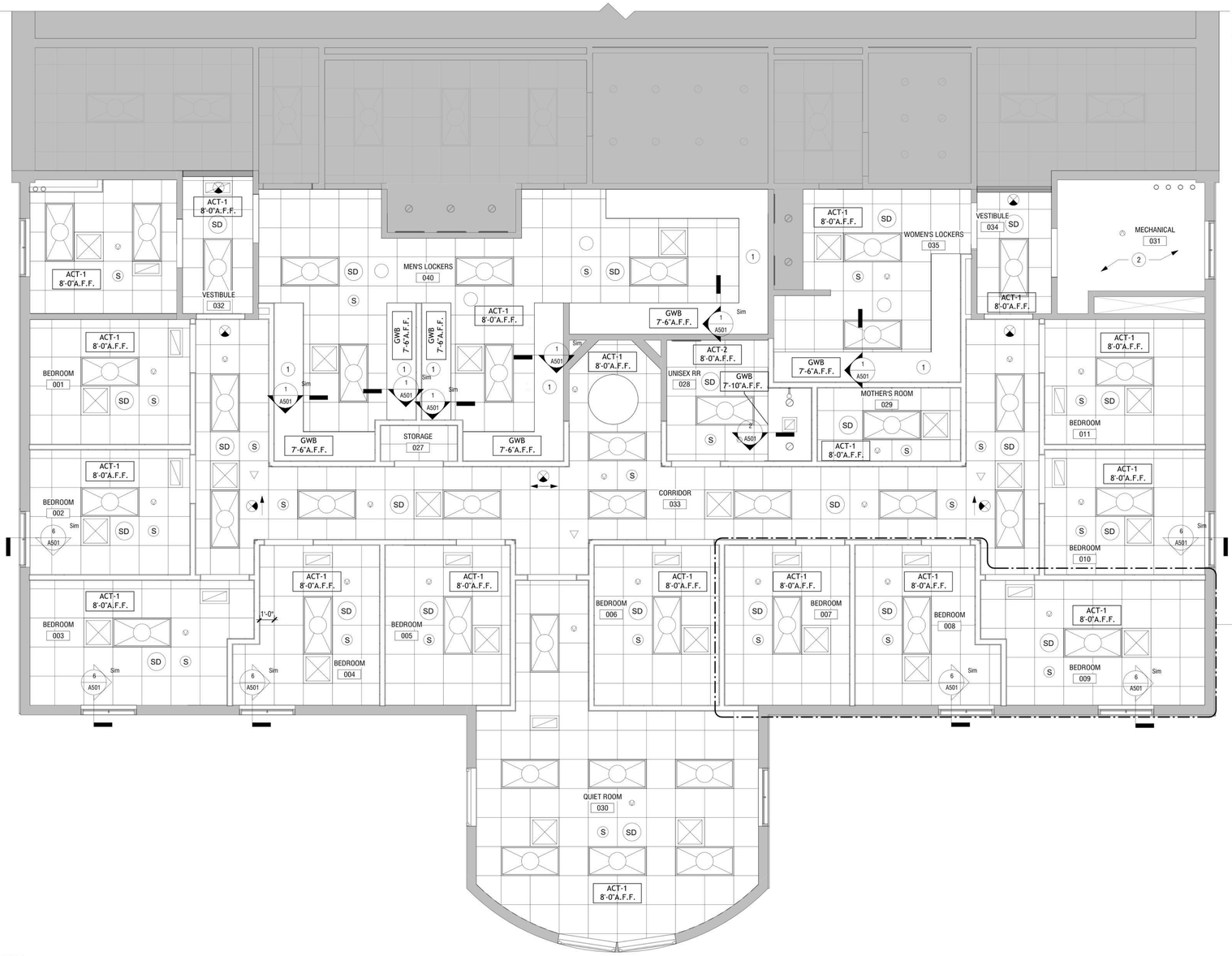
H. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.

KEY NOTES - CEILING PLAN

NO.	DESCRIPTION
1	NEW GYPSUM BULKHEAD
2	OPEN TO GWB LID ABOVE

REFLECTED CEILING PLAN LEGEND

NEW	DEMO	EXISTING TO REMAIN
CEILING GRID, SUSPENDED, 2' X 2'	CEILING GRID, SUSPENDED, 2' X 2'	CEILING GRID, SUSPENDED, 2' X 2'
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GYPSUM BOARD CEILING	GYPSUM BOARD CEILING	GYPSUM BOARD CEILING
ACT-12 12'-0" A.F.F. — CEILING TYPE / CEILING HEIGHT		
LINEAR LIGHT FIXTURE		
2 X 2 LIGHT FIXTURE, EMERGENCY		
2 X 4 LIGHT FIXTURE		
2 X 2 LIGHT FIXTURE		
CAN LIGHT FIXTURE		
DIRECTIONAL EXIT SIGN		
EMERGENCY EXIT LIGHT		
SPRINKLER HEAD (VARIES)		
RETURN AIR DIFFUSER		
SUPPLY AIR DIFFUSER		
(S) SPEAKER		
OCCUPANCY SENSOR		
(SD) SMOKE DETECTOR		
CEILING FAN		



1 A104 LEVEL 2 RCP
1/4" = 1'-0" REF:2/A401

N

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TODD J. WINGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
CEILING PLAN - SECOND

SHEET NUMBER:
A104

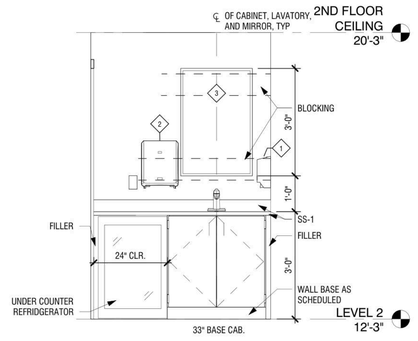
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KEY NOTES - FLOOR PLAN

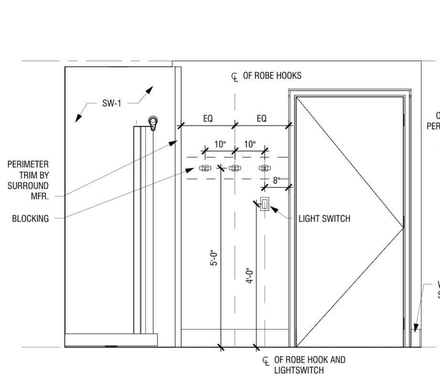
NO.	DESCRIPTION
1.	NEW BOTTLE FILLER
2.	NEW WALL TO ALIGN WITH EDGE OF EXISTING GWB CEILING
3.	NEW VENTED LOCKER WITH BENCH, 24" W X 24" D X 84" TALL
4.	SHOWER WITH HOSE BIB
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6.	EXISTING FIRE POLE OPENING
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9.	INFILL WALL WHERE DOOR IS REMOVED TO MATCH SURROUNDING CONSTRUCTION
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14.	CORNER GUARD
15.	18" DEEP ADJUSTABLE SHELVES ON STANDARDS, PROVIDE FIVE SHELVES
16.	FLOOR FINISH MATERIALTRANSITION LINE - SEE SHEET A601 FOR DETAILS
17.	PROVIDE HOLLOW METAL FRAME CASED OPENING

ACCESSORY SCHEDULE

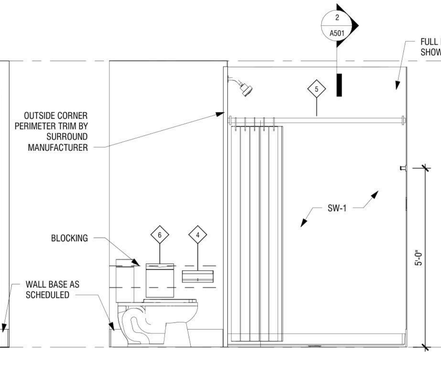
Type Mark	Type	Manufacturer/Model	Comments
1	SOAP DISPENSER		PROVIDED AND INSTALLED BY OWNER
2	PAPER TOWEL DISPENSER		PROVIDED AND INSTALLED BY OWNER
3	MIRROR 24Wx36H	B-780-2436	
4	TOILET TISSUE DISPENSER		PROVIDED AND INSTALLED BY OWNER
5	SHOWER ROD AND CURTAIN		PART OF SHOWER PACKAGE
6	SANITARY NAPKIN DISPOSAL	B-270	
7	ROBE HOOK	B-9124	



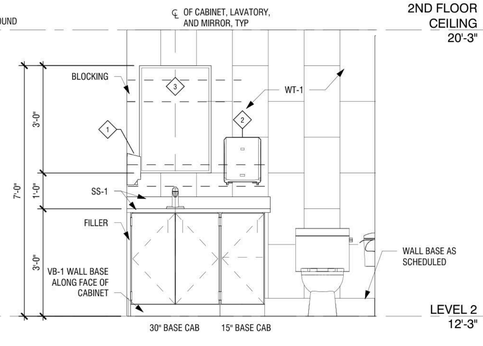
12 A401 CASEWORK ELEVATION - MOTHER'S ROOM
1/2" = 1'-0" REF:8/A401



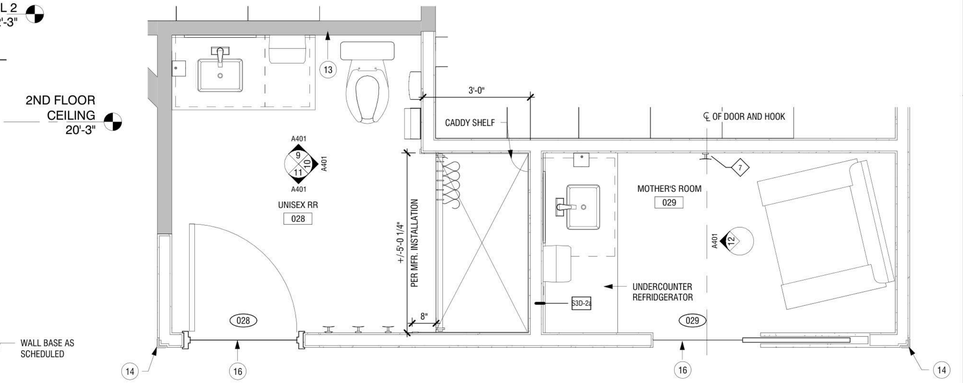
11 A401 ELEVATION - UNISEX RR
1/2" = 1'-0" REF:8/A401



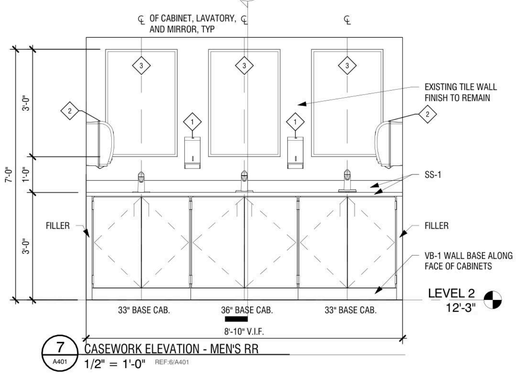
10 A401 ELEVATION - UNISEX RR
1/2" = 1'-0" REF:8/A401



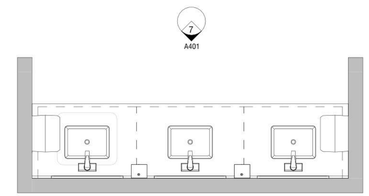
9 A401 CASEWORK ELEVATION - UNISEX RR
1/2" = 1'-0" REF:8/A401



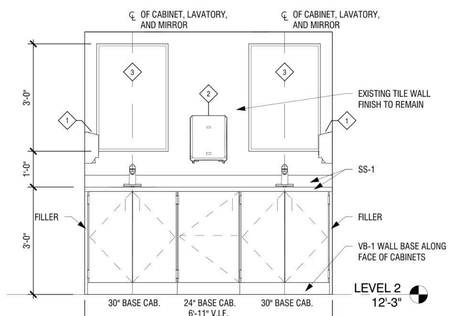
8 A401 FLOOR PLAN - UNISEX RR & MOTHER'S ROOM
1/2" = 1'-0" REF:1/A102



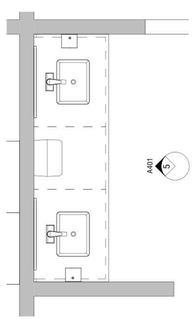
7 A401 CASEWORK ELEVATION - MEN'S RR
1/2" = 1'-0" REF:6/A401



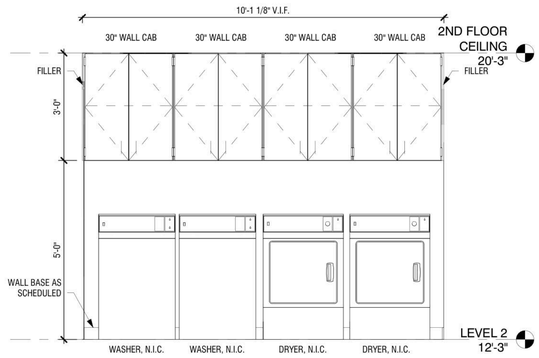
6 A401 FLOOR PLAN - MEN'S RR
1/2" = 1'-0" REF:1/A102



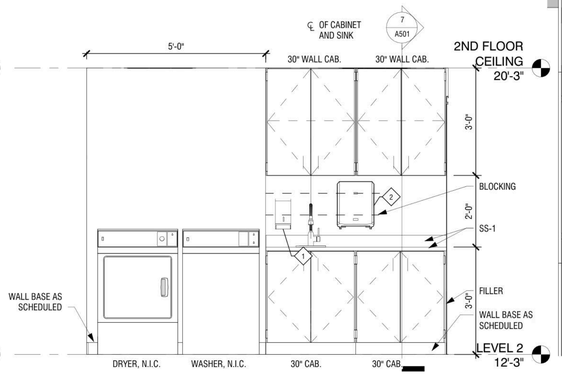
5 A401 CASEWORK ELEVATION - WOMEN'S RR
1/2" = 1'-0" REF:4/A401



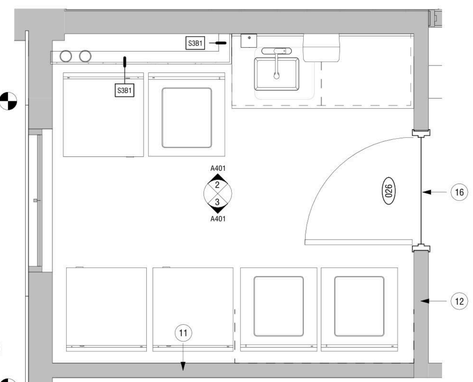
4 A401 FLOOR PLAN - WOMEN'S RR
1/2" = 1'-0" REF:1/A102



3 A401 CASEWORK ELEVATION - LAUNDRY
1/2" = 1'-0" REF:1/A401



2 A401 CASEWORK ELEVATION - LAUNDRY
1/2" = 1'-0" REF:1/A401



1 A401 FLOOR PLAN - LAUNDRY
1/2" = 1'-0" REF:1/A102

Autodesk Docs://250060 - Carmel Fire Station 42&46/250060 Carmel Fire Station 42.rvt

8/17/2026 4:57:20 PM

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

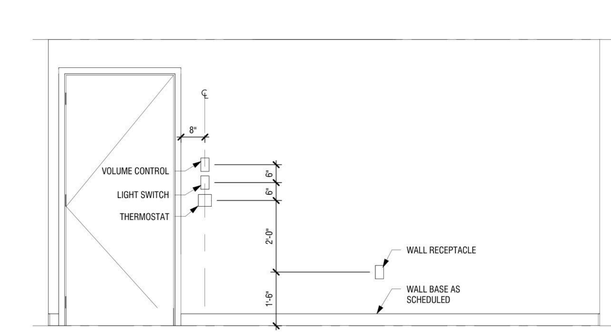
#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

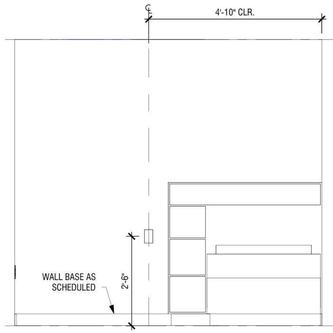
DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
LARGE SCALE VIEWS

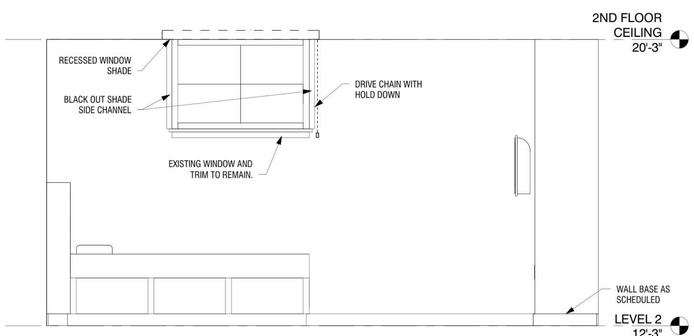
SHEET NUMBER:
A401



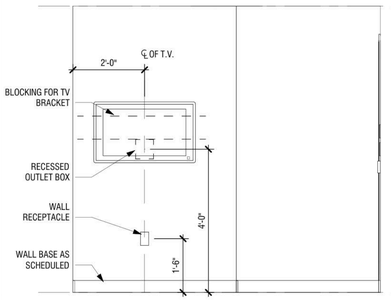
11 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



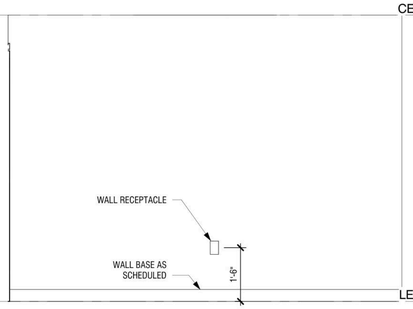
10 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



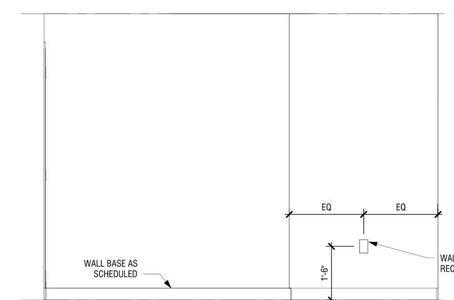
9 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



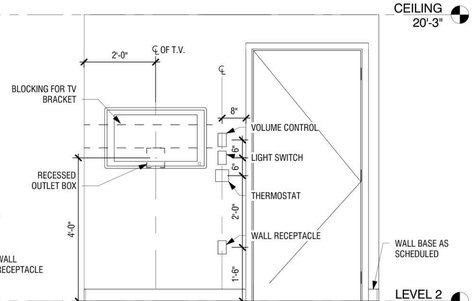
8 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



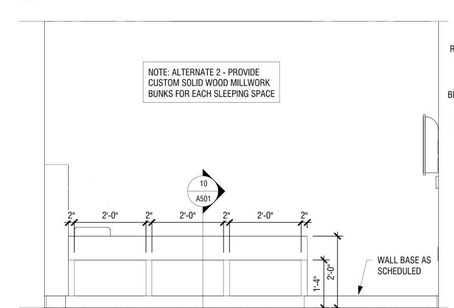
7 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



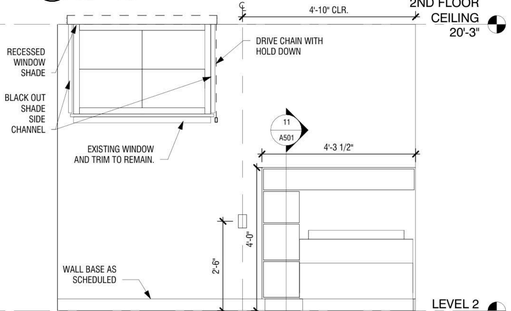
6 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



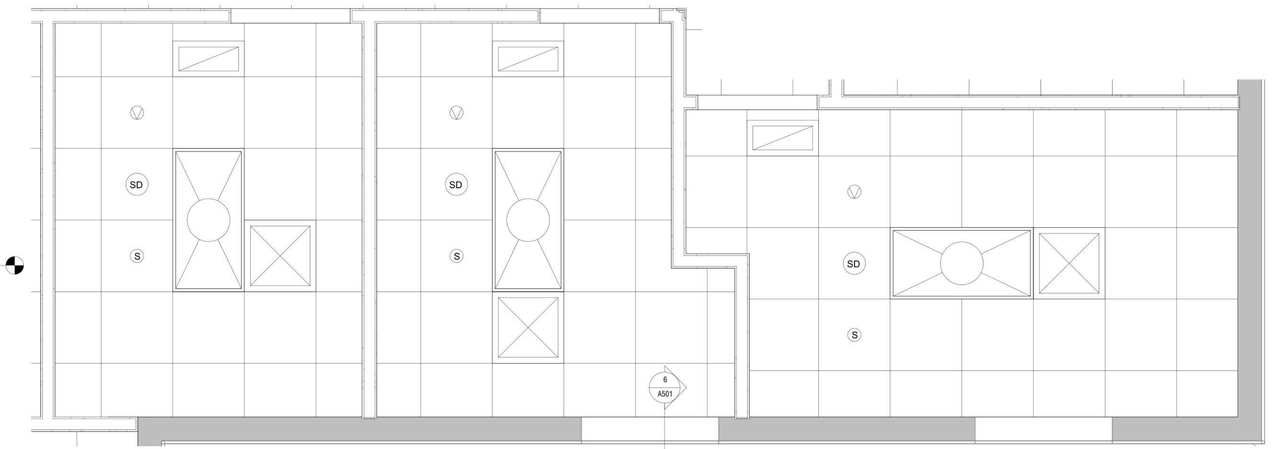
5 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



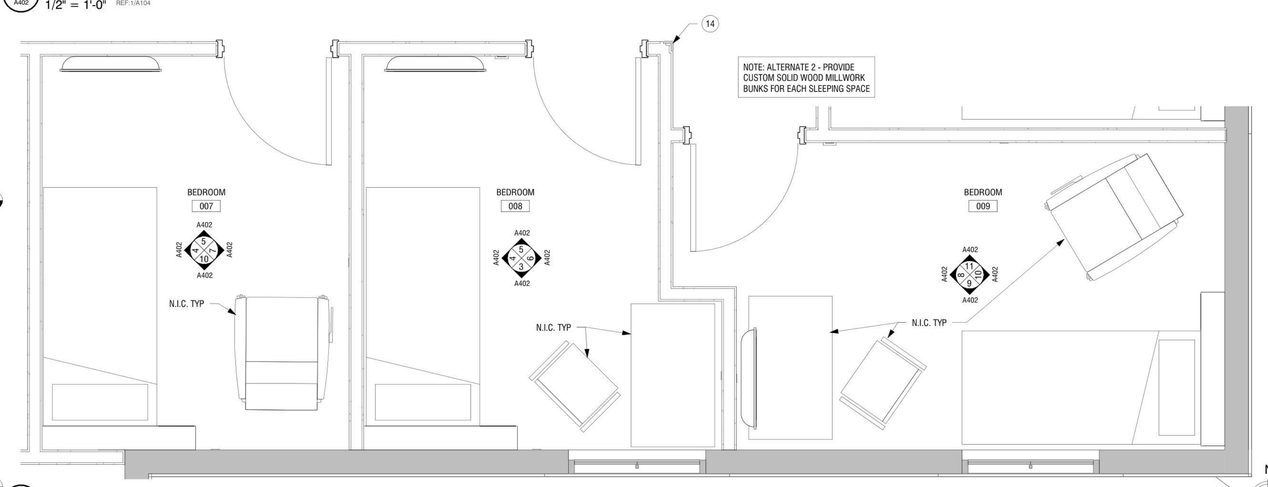
4 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



3 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



2 A402 PARTIAL SECOND FLOOR RCP
1/2" = 1'-0" REF:1/A104



1 A402 PARTIAL SECOND FLOOR PLAN
1/2" = 1'-0" REF:1/A102

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT
1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
LARGE SCALE VIEWS

SHEET NUMBER:
A402

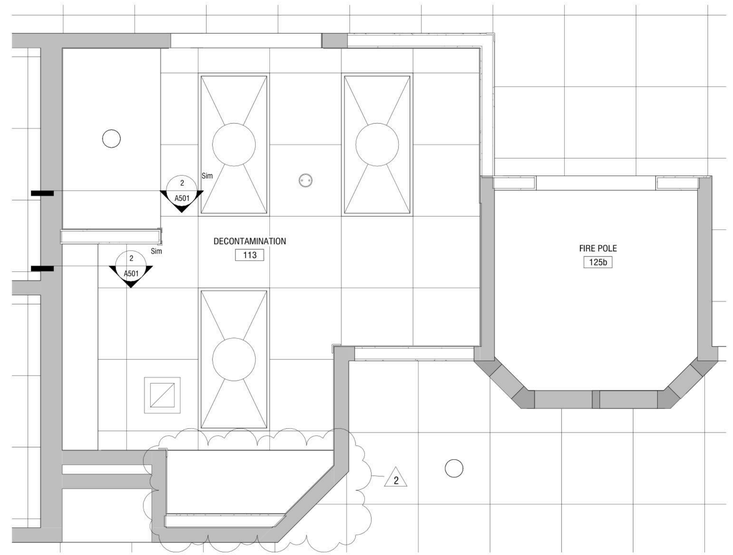
Autodesk Docs://250060 - Carmel Fire Station 42&46/250060 Carmel Fire Station 42.rvt
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KEY NOTES - FLOOR PLAN

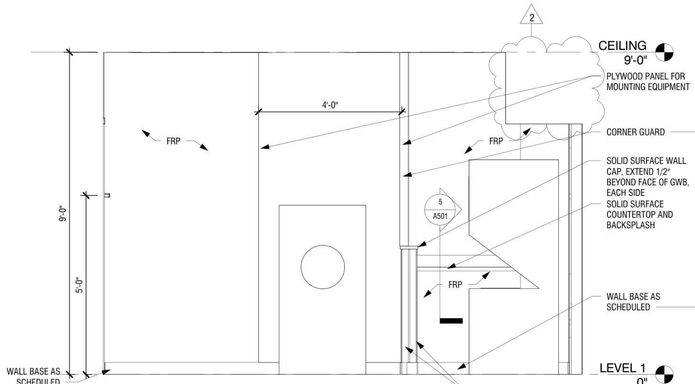
NO.	DESCRIPTION
1.	NEW BOTTLE FILLER
2.	NEW WALL TO ALIGN WITH EDGE OF EXISTING GWB CEILING
3.	NEW VENTED LOCKER WITH BENCH, 24" W X 24" D X 84" TALL
4.	SHOWER WITH HOSE BIB
5.	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
6.	EXISTING FIRE POLE OPENING
7.	FUTURE EXTRACTOR, PROVIDE ROUGH-INS ONLY
8.	EXTEND LOCKER FRONT, DRAWER BASE FRONT, AND BENCH AROUND CORNER AND TO END WALL AS SHOWN TO CREATE CONTINUOUS INSTALLATION
9.	INFILL WALL WHERE DOOR IS REMOVED TO MATCH SURROUNDING CONSTRUCTION
10.	INSTALL MOISTURE RESISTANT GWB, FULL HEIGHT OF STUDS, ON DECONTAMINATION SIDE OF EXISTING WALLS AND BULKHEADS. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
11.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE, ADD ACOUSTIC INSULATION AND MOISTURE RESISTANT GWB TO LAUNDRY ROOM SIDE OF WALL, ADD AN ADDITIONAL LAYER OF GWB TO BUNKROOM SIDE OF WALL, AND SEAL TO MEET ACOUSTIC RATING OF 50 STC MIN. DEPENDING ON EXISTING WALL CONSTRUCTION.
12.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE.
13.	INSTALL MOISTURE RESISTANT GWB ON UNISEX RESTROOM SIDE OF WALL, EXTEND TO UNDERSIDE OF GWB LID ABOVE. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
14.	CORNER GUARD
15.	18" DEEP ADJUSTABLE SHELVES ON STANDARDS, PROVIDE FIVE SHELVES
16.	FLOOR FINISH MATERIALTRANSITION LINE - SEE SHEET A601 FOR DETAILS
17.	PROVIDE HOLLOW METAL FRAME CASED OPENING

ACCESSORY SCHEDULE

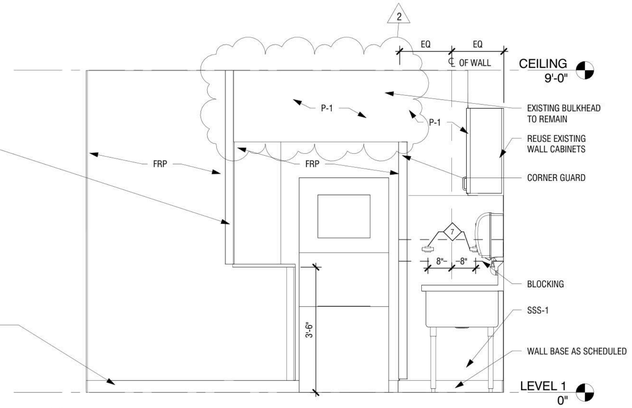
Type Mark	Type	Manufacturer/Model	Comments
1	SOAP DISPENSER		PROVIDED AND INSTALLED BY OWNER
2	PAPER TOWEL DISPENSER		PROVIDED AND INSTALLED BY OWNER
3	MIRROR 24Wx36H	B-780-2436	
4	TOILET TISSUE DISPENSER		PROVIDED AND INSTALLED BY OWNER
5	SHOWER ROD AND CURTAIN		PART OF SHOWER PACKAGE
6	SANITARY NAPKIN DISPOSAL	B-270	
7	ROBE HOOK	B-9124	



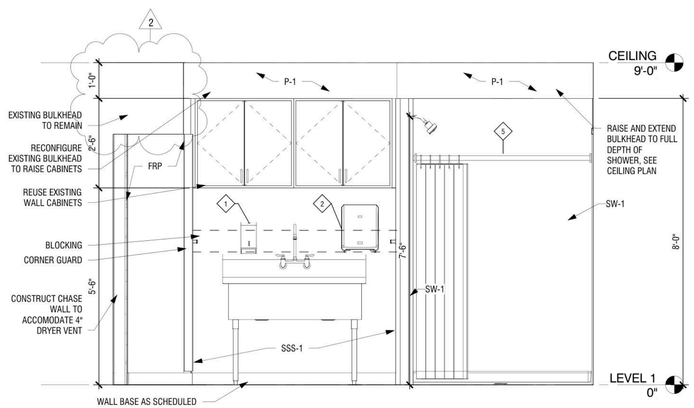
2 A403 LEVEL 1 RCP - Callout 1
1/2" = 1'-0" REF:1:/A103



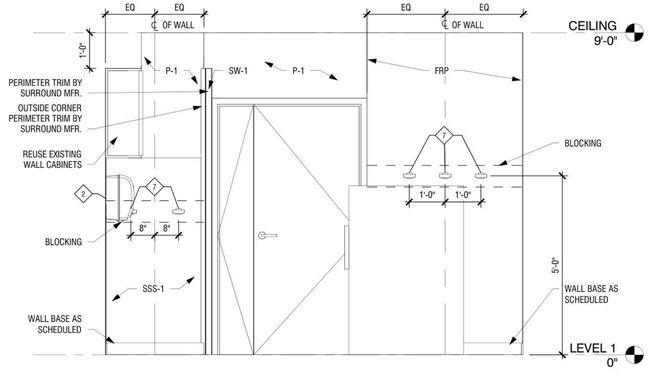
6 A403 ELEVATION - DECONTAMINATION EAST
1/2" = 1'-0" REF:1/A403



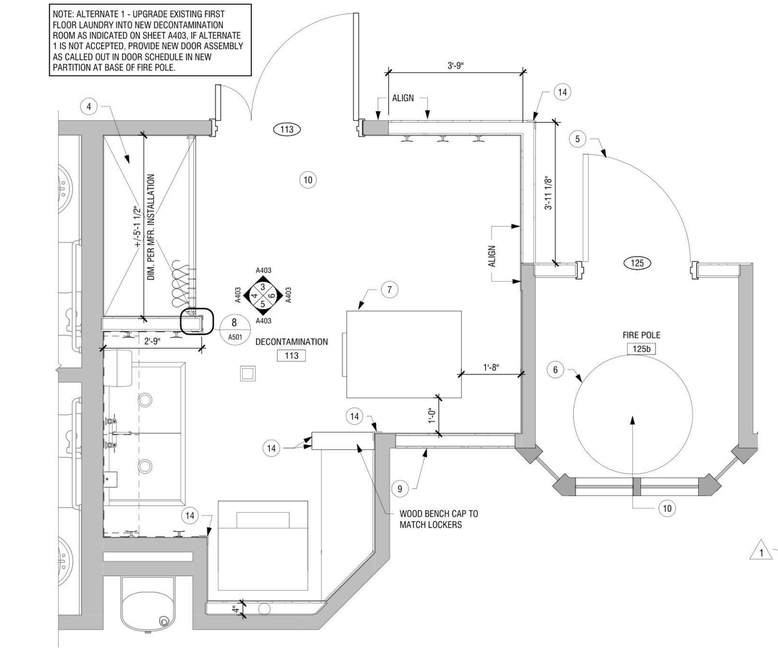
5 A403 ELEVATION - DECONTAMINATION SOUTH
1/2" = 1'-0" REF:1/A403



4 A403 ELEVATION - DECONTAMINATION WEST
1/2" = 1'-0" REF:1/A403



3 A403 ELEVATION - DECONTAMINATION NORTH
1/2" = 1'-0" REF:1/A403



1 A403 ENLARGED FLOOR PLAN
1/2" = 1'-0" REF:1/A101

N

Etica GROUP

CARMEL ART & DESIGN DISTRICT

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

TOBY J. WINIGER
REGISTERED
No. AR10300002
STATE OF INDIANA
ARCHITECT
1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
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1	Extractor Changes		07-15-2026

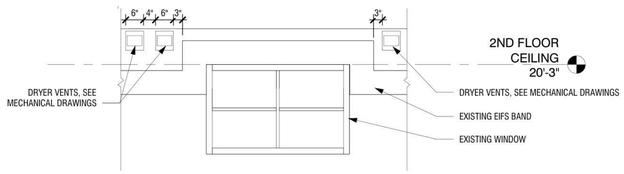
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DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

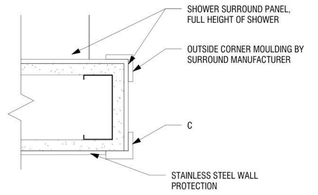
DRAWING TITLE:
LARGE SCALE VIEWS

SHEET NUMBER:
A403

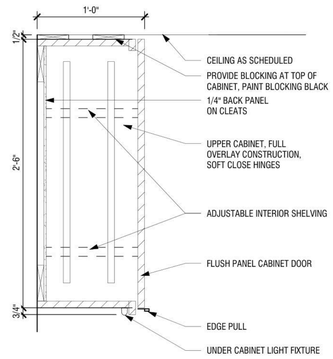
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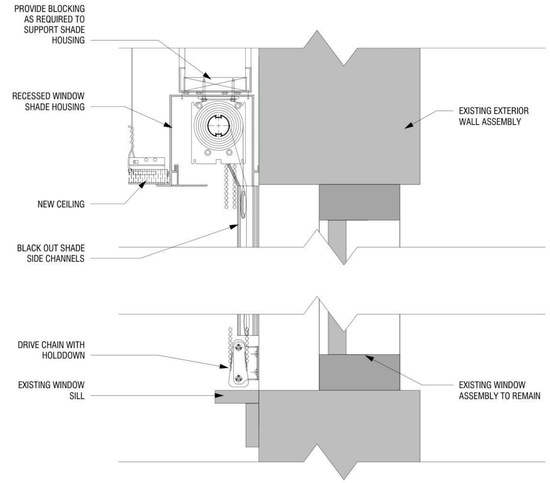
9 A501 ELEVATION - DRYER VENTS AT WINDOW
1/2" = 1'-0" REF:1/A102



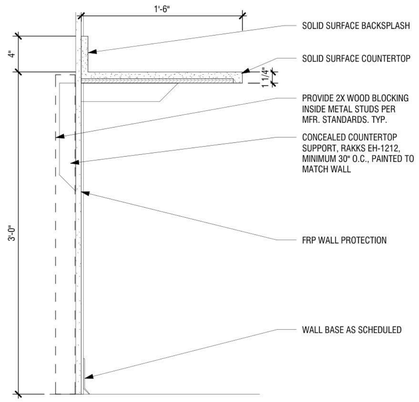
8 A501 DETAIL - WALL PROTECTION
3" = 1'-0" REF:1/A403



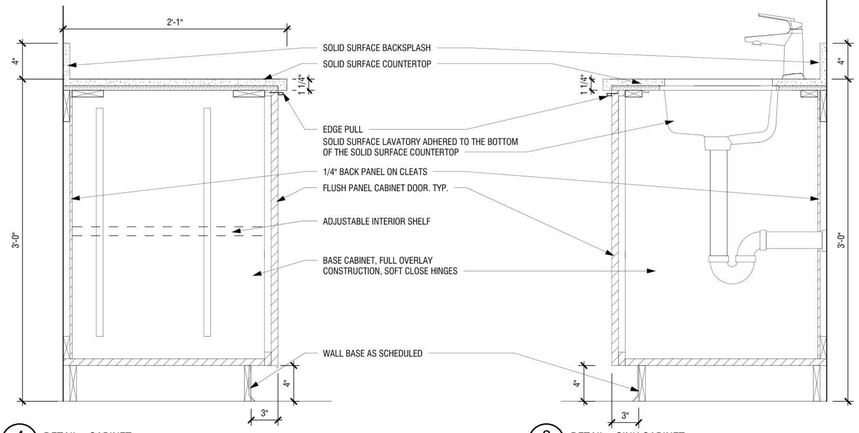
7 A501 DETAIL - WALL CABINET
1 1/2" = 1'-0" REF:2/A401



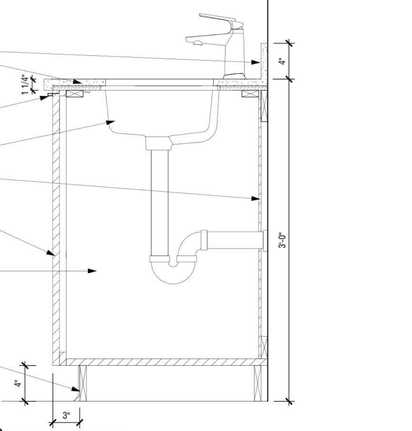
6 A501 SECTION - WINDOW
3" = 1'-0" REF:1/A104



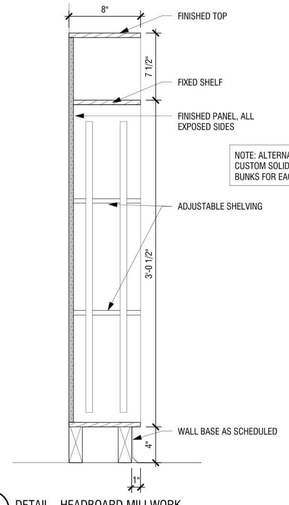
5 A501 DETAIL - COUNTER
1 1/2" = 1'-0" REF:6/A403



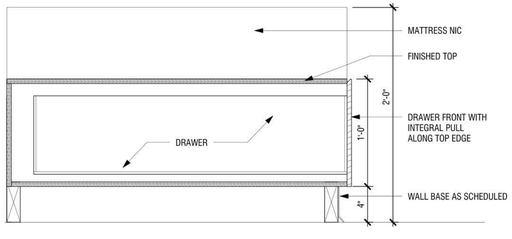
4 A501 DETAIL - CABINET
1 1/2" = 1'-0"



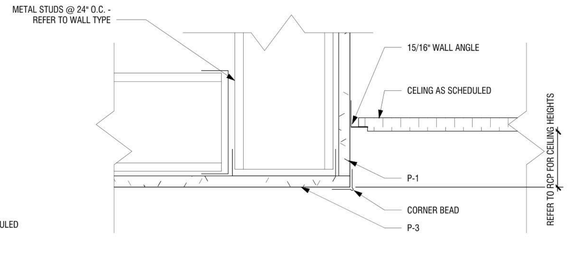
3 A501 DETAIL - SINK CABINET
1 1/2" = 1'-0" REF:7/A401



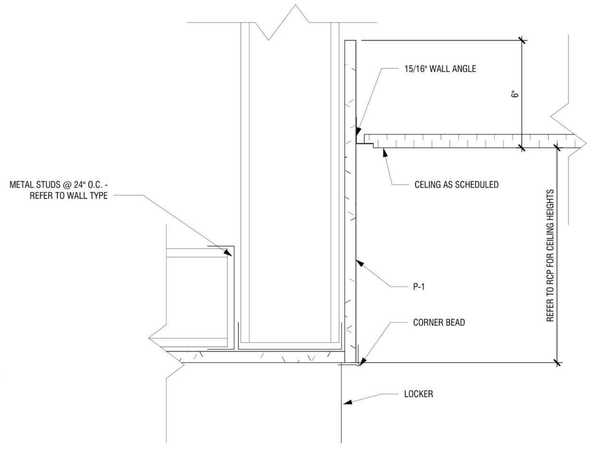
11 A501 DETAIL - HEADBOARD MILLWORK
1 1/2" = 1'-0" REF:3/A402



10 A501 DETAIL - BUNK MILLWORK
1 1/2" = 1'-0" REF:4/A402



2 A501 BULKHEAD
3" = 1'-0" REF:1/A104



1 A501 BULKHEAD
3" = 1'-0" REF:1/A104

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Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINIGER
REGISTERED
No AR10300002
STATE OF
INDIANA
ARCHITECT
1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
DETAILS

SHEET NUMBER:
A501

DOOR AND FRAME SCHEDULE

NO.	ROOM	DOOR					FRAME		DETAILS		REMARKS	COMMENTS	HDWR SET
		TYPE	QTY.	WIDTH	HEIGHT	MAT.	TYPE	MAT.	HEAD	JAMB			
LEVEL 1													
113	DECONTAMINATION	A	DBL.	1' / 3'	7'-0".	SCWD	F1	HM			PRIVACY	3	5
119	CORRIDOR	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	F1	HM	4/A600	3/A600	SALVAGE AND REUSE EXISTING FITNESS DOOR	--	4
125	FIRE POLE	D	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PUSH / PULL	1	6
LEVEL 2													
001	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
002	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
003	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
004	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
005	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
006	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
007	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
008	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
009	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
010	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
011	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
027	STORAGE	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PASSAGE	--	3
028	UNISEX RR	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	8
029	MOTHER'S ROOM											2	13
030	QUIET ROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	OFFICE	3	1
031	MECHANICAL	A A	SGL SGL	3'-6" 3'-0"	7'-0" 7'-0"	SCWD SCWD	F1 F1	HM HM	2/A600 --	1/A600 --	PRIVACY LATCH. OVERSIZE DOOR - 4' SLAB; E, STOREROOM	--	7
035	WOMEN'S LOCKERS	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	STOREROOM WITH CARD READER	--	12
040	MEN'S LOCKERS	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PUSH / PULL	--	2
041	JANITOR'S	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	--	--	EXISTING DOOR FRAME TO REMAIN IN PLACE, PASSAGE	--	3

DOOR SCHEDULE COMMENTS	
1	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
2	POCKET DOOR
3	PROVIDE 47 STC RATED DOOR TO MATCH WALL ASSEMBLY

GENERAL DOOR, FRAME, AND HARDWARE NOTES

THE DOOR SCHEDULE IS FURNISHED TO ASSIST THE CONTRACTOR WITH PROVIDING A COMPLETE DOOR, FRAME AND HARDWARE PACKAGE. DO NOT CONSIDER IT AS ENTIRELY INCLUSIVE, CAREFULLY EXAMINE THE DRAWINGS (ESPECIALLY THE FLOOR PLANS) AND THE SPEICIFICATIONS TO DETERMINE THE EXTEND OF DOOR AND FRAME QUANTITIES REQUIRED (INCLUDIG INTERIOR WINDOW/SIDELIGHT OPENINGS). SHOULD ANY PARTICULAR DOOR, FRAME OR INTERIOR WINDOW/SIDELIGHT SHOWN IN THE DRAWINGS BE INADVERTEDLY OMITTED FROM THIS SCHEDULE, SUPPLY SAME AS REQUIRED FOR SIMILAR OPENINGS.

A	ALL DOOR HARDWARE MUST COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS.
B	LOCKSETS SHALL MEET ADA REQUIREMENTS IN ACCORDANCE WITH ANSI A117.1-2009.
C	THRESHOLD HEIGHT - MAXIMUM OF 1/2-INCH.
D	ALL EXTERIOR DOORS TO RECIEVE ALUMINUM THRESHOLDS, WEATHERSTRIPPING, SEALS AND GASKETS TO ASSURE WEATHER TIGHT SEAL.
E	PROVIDE APROPRIATE WALL BUMPERS, DOOR STOPS AND/OR OVERHEAD LIMITERS ON DOORS AS REQUIRED TO PROTECT ADJACENT SURFACES AND FINISHES.
F	ALL INTERIOR DOORS TO RECEIVE HINGES PER SPECIFICATIONS.
G	ALL EXTERIOR DOORS TO RECEIVE CONTINUOUS HINGES PER SPECIFICATIONS.
H	THE HINGE SIDE OF ALL INTERIOR DOOR FRAMES SHALL BE LOCATED 4" FROM ADJACENT CONSTRUCTION, UNLESS NOTED OTHERWISE.
I	LOCATE AND INSTALL SAFETY GLAZING PER STATE AND LOCAL CODES AND ORDINANCES.
J	ALL SOLID CORE WOOD DOORS SHALL BE FACTORY FINISHED. STAIN COLOR TO MATCH EXISTING.
K	ALL FRAME WIDTHS ARE 2" UNLESS NOTED OTHERWISE. CONTRACTOR SHALL COORDINATE FRAME DEPTH REQUIRED WITH WALL TYPES, CONDITIONS, AND DETAILS.
L	IF DOUBLE DOOR IS RATED, AUTOFLUSH BOLTS AND COORDINATORS ARE REQUIRED.
M	REFER TO DOOR HARDWARE SCHEDULE FOR DOOR HARDWARE

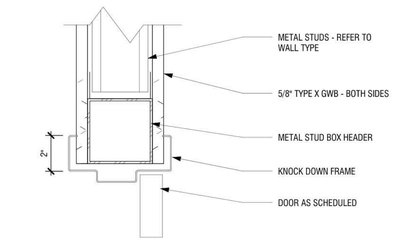
MATERIAL KEY

HM	HOLLOW METAL
AL	ALUMINUM - CLEAR ANODIZED
FRP	FIBER REINFORCED PLASTIC (POLYMER)
SCWD	SOLID CORE WOOD DOOR
SRWD	STILE AND RAIL WOOD DOOR
STL	STEEL
SS	STAINLESS STEEL
ST-1	FACTORY FINISHED PER ROOM FINISH SCHEDULE
P-1	PAINTED FINISH PER ROOM FINISH SCHEDULE
P-2	PAINTED FINISH PER ROOM FINISH SCHEDULE

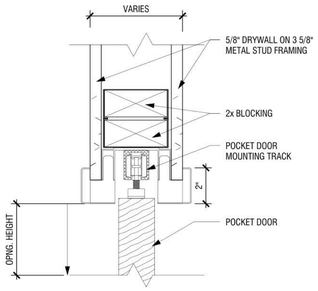
GLAZING KEY

TG-1	1/4" TEMPERED SAFETY GLAZING
LG-1	1/4" LAMINATED SAFETY GLAZING
IG-1	1" CLEAR INSULATED GLAZING WITH LOW-E COATING ON 2ND SURFACE
FG-1	TRANSLUCENT PRIVACY GLAZING

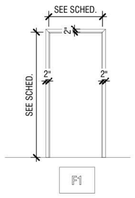
Assembly Code



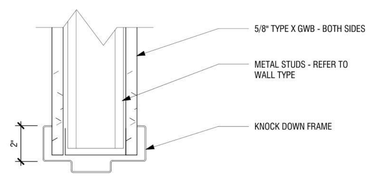
4 A600 HM DOOR HEAD DETAIL
3" = 1'-0"



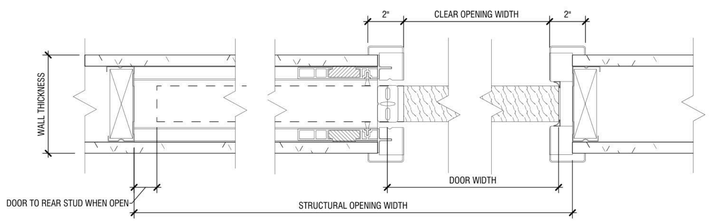
2 A600 POCKET DOOR HEAD
3" = 1'-0"



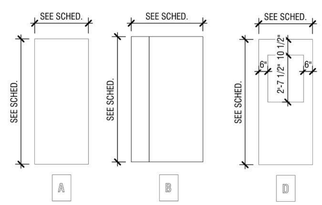
DOOR FRAME ELEVATIONS
1/4" = 1'-0"



3 A600 HM JAMB DETAIL
3" = 1'-0"



1 A600 POCKET DOOR JAMB
3" = 1'-0"



DOOR ELEVATIONS
1/4" = 1'-0"

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

TOBY J. WINEGAR REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
DOOR & WINDOW SCHEDULES, ELEVATIONS

SHEET NUMBER:
A600

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FINISH LEGEND

FLOOR / BASE FINISHES

CODE	MATERIAL	MANUFACTURER	PATTERN/STYLE	COLOR	NUMBER	SIZE	REMARKS
CPT-1	CARPET TILE	PATCRAFT	MATERIAL PARADOX/NOCTURNE	LUMEN	--	9" X 36" PLANKS	--
C-1	POLISHED CONCRETE	--	--	--	--	--	--
C-2	SEALED CONCRETE	--	--	--	--	--	--
T-1	TILE	DALTILE	COLOR WHEEL MOSAIC	MATCH EXISTING	--	--	ALT. 3 - FINISH UNISEX RR, MOTHER'S ROOM, AND LAUNDRY WITH T-1
RB-1	RUBBER TILE FLOORING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	--	--	--
ETR	EXISTING TO REMAIN	--	--	--	--	--	--
VB-1	VINYL BASE	JOHNSONITE	4" COVE	CHARCOAL	20	4"H	--
TB-1	TILE BASE	CROSSVILLE	PORTUGAL	TO BE SELECTED	-	6" X 24"	CAP WITH SCHLUTER JOLLY TRIM ALONG TOP EDGE

WALL FINISHES

CODE	MATERIAL	MANUFACTURER	PATTERN/STYLE	COLOR	NUMBER	SIZE	REMARKS
P-1	PAINT	SHERWIN WILLIAMS	EGGSHELL SHEEN	REPOSE GREY	7015	--	GENERAL PAINT
P-2	PAINT	SHERWIN WILLIAMS	EGGSHELL SHEEN	GRIZZLE GRAY	7068	--	ACCENT PAINT
P-3	PAINT	SHERWIN WILLIAMS	FLAT SHEEN	CEILING BRIGHT WHITE	7007	--	CEILING PAINT
P-4	PAINT	SHERWIN WILLIAMS	SEMI GLOSS	GRIZZLE GRAY	7068	--	TRIM AND CASING
WT-1	WALL TILE	CROSSVILLE	PORTUGAL	TO BE SELECTED	--	12" X 24"	RUNNING BOND PATTERN ORIENTED VERTICALLY, SEE INTERIOR ELEVATION
ETR	EXISTING TO REMAIN	--	--	--	--	--	PROTECT DURING CONSTRUCTION

SURFACE FINISHES

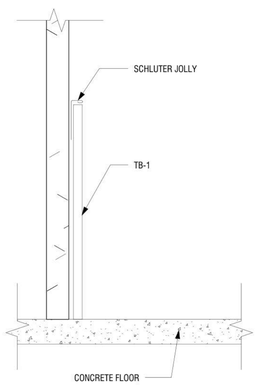
CODE	MATERIAL	MANUFACTURER	PATTERN/STYLE	COLOR	NUMBER	SIZE	REMARKS
SS-1	SOLID SURFACE	DUPONT CORIAN	EASED EDGE	ARCTIC ICE	7068	--	NEW COUNTERTOPS
WD-1	WOOD VENEER PLYWOOD	--	--	--	--	--	MILLWORK BED ASSEMBLIES
ETR	EXISTING TO REMAIN	--	--	--	--	--	PROTECT DURING CONSTRUCTION

MISC. FINISHES

CODE	MATERIAL	MANUFACTURER	PATTERN/STYLE	COLOR	NUMBER	SIZE	REMARKS
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	DUNE / TEGULAR	WHITE	--	24"X24"	15/16" GRID
ACT-2	ACOUSTIC CEILING TILE	CERTAINTEED	VINYL ROCK / SQUARE	WHITE	--	24"X24"	WATER RESISTANT 15/16" GRID
CG-1	CORNER GUARD	CS ACROVYN	4000 SFS 20N	DRIFT WOOD	--	2" LEGS	MATCH EXISTING
DR-1	DOORS	--	--	--	--	--	MATCH EXISTING WOOD DOOR FINISH
SW-1	SHOWER WALLS	INPRO	PRISM SOLID SURFACE WALL CLADDING / SMOOTH PANEL WITH 8" SOAP SHELF AND SHOWER CURTAIN SYSTEM	TO BE SELECTED FROM CATEGORY B COLOR OPTIONS	--	FULL HT AND WD X 1/4"	--
SB-1	SHOWER BASE	INPRO	PRISM / STANDARD SHOWER BASE	TO BE SELECTED FROM CATEGORY A COLOR OPTIONS	--	60" X 32"	--
LB-1	LAVATORY BOWL	CORIAN	INTEGRAL SINK / CHIC	GLACIER WHITE	--	--	SEE PLUMBING DRAWINGS
SHS-1	SINGLE ROLLER SHADE	MECHO	M7 MANUAL WITH RECESSED HOUSING	TO BE SELECTED FROM DISTINCTIVE BLACK OUT OPTIONS	--	--	INCLUDE FASCIA AND SIDE CHANNELS, BLACK CLOTH TO BE EGOGLASS BLACKOUT 2820 SERIES
FRP	FIBERGLASS REINFORCED PLASTIC	MARLITE	STANDARD / PEBBLE	TO BE SELECTED	--	4' X 10'	--
SSS-1	STAINLESS STEEL SHEET	CS ACROVYN	SMOOTH	#4 SATIN FINISH	--	4x8x0.0625" THICK	CUT TO SIZE INDICATED

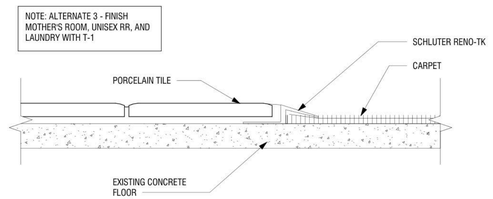
ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	North Wall Finish	South Wall Finish	East Wall Finish	West Wall Finish	CEILING FINISH	COMMENTS
115	FITNESS	RB-1	MATCH EXIST.	P-1	P-1	P-1	P-1	ACT-1	RE-PAINT ENTIRE ROOM, INFILL FLOORING AT NEW ENTRY TO BLEND WITH EXISTING FLOORING, NEW WALL BASE ANTICIPATED AT NEW WALLS ONLY
113	DECONTAMINATION	C-1	VB-1	FRP	FRP	FRP	SSS-1	ACT-2	SOLID SURFACE SURROUND IN SHOWER
125b	FIRE POLE	ETR	ETR	P-1	P-1	P-1	P-1	P-3	RE-PAINT ENTIRE ROOM
001	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
002	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
003	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
004	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
005	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
006	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
007	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
008	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
009	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
010	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
011	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
027	STORAGE	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	
028	UNISEX RR	C-1	TB-1	WT-1	P-1	P-1	P-1	ACT-2	SOLID SURFACE SURROUND IN SHOWER. ALT. 3 - FINISH UNISEX RR, MOTHER'S ROOM, AND LAUNDRY WITH T-1
029	MOTHER'S ROOM	C-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	ALT. 3 - FINISH UNISEX RR, MOTHER'S ROOM, AND LAUNDRY WITH T-1
030	QUIET ROOM	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	
031	MECHANICAL	C-2	VB-1	ETR	ETR	ETR	ETR	--	CELING TO BE OPEN TO GWB LID ABOVE
032	VESTIBULE	CPT-1	VB-1	P-4	P-2	P-1	P-1	ACT-1	
033	CORRIDOR	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	
034	VESTIBULE	CPT-1	VB-1	P-4	P-2	P-1	P-1	ACT-1	
035	WOMEN'S LOCKERS	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	RE-PAINT ENTIRE LOCKER PORTION OF ROOM
040	MEN'S LOCKERS	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	RE-PAINT ENTIRE LOCKER PORTION OF ROOM

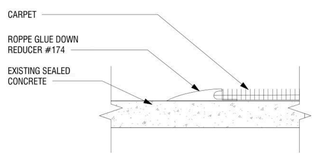


6 A601 FLOOR TO WALL TRANSITION_CONCRETE TO TILE
6" = 1'-0"

NOTE: ALTERNATE 3 - FINISH MOTHER'S ROOM, UNISEX RR, AND LAUNDRY WITH T-1



2 A601 FLOOR TRANSITION_CARPET TO TILE
6" = 1'-0"

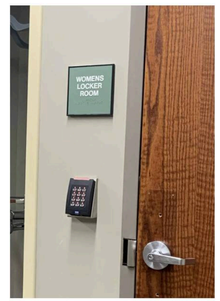


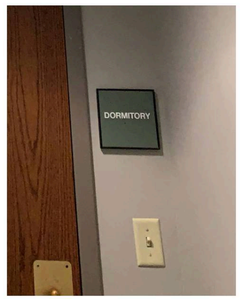
1 A601 FLOOR TRANSITION_CARPET TO CONC
6" = 1'-0"

SIGNAGE SCHEDULE

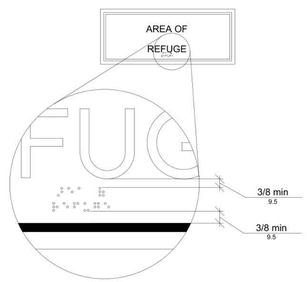
LOCATION	ROOM SIGN	EGRESS SIGN
FITNESS	REUSE EXIST.	
DECONTAMINATION	REUSE EXIST.	
FIRE POLE		
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
LAUNDRY	X	
STORAGE	X	
UNISEX RR	X	
MOTHER'S ROOM	X	
QUIET ROOM	X	X
MECHANICAL	X	
VESTIBULE		
CORRIDOR		
VESTIBULE		
WOMEN'S LOCKERS	X	
MEN'S LOCKERS	X	



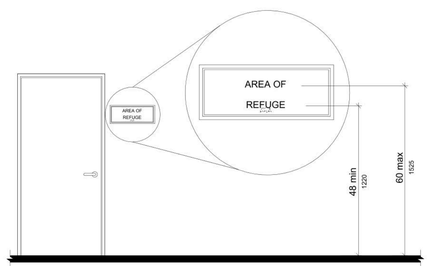




5 A601 EXISTING ROOM SIGNAGE PHOTOS
3" = 1'-0"



3 A601 POSITION OF BRAILLE
3/8" = 1'-0"



4 A601 HEIGHT OF TACTILE CHARACTERS ABOVE FLOOR OR GROUND
3/8" = 1'-0"

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	ERS	TLG

DRAWING TITLE:
ROOM FINISH SCHEDULE

SHEET NUMBER:
A601

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NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS NOT NECESSARILY USED ON THIS PROJECT.

VALVES & FITTINGS:

- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- BALANCING VALVE
- PLUG VALVE
- CONTROL VALVE
- SOLENOID VALVE
- NEEDLE VALVE
- THERMAL EXPANSION VALVE
- AUTOMATIC BALANCE VALVE
- BACK FLOW PREVENTER
- PRESSURE REDUCING, SELF CONTAINED VALVE
- PRESSURE REDUCING, PILOT OPERATED VALVE
- RELIEF, PILOT OPERATED VALVE
- ANGLE GLOBE VALVE
- PRESSURE SAFETY, ANGLE TYPE VALVE
- THREE WAY BALL VALVE
- THREE WAY GLOBE VALVE
- THREE WAY PLUG VALVE
- MOTORIZED VALVE
- MOTORIZED VALVE
- THREE WAY CONTROL VALVE
- PIPE TURN 90°
- LINE BREAK
- PIPE ELBOW UP (RISER)
- PIPE ELBOW DOWN
- PIPE TEE DOWN
- CAP OR PLUG
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC
- Y-STRAINER
- FLEXIBLE CONNECTION
- FLANGES
- UNION
- PIPE GUIDE
- PIPE ANCHOR
- FILTER (INLINE)
- GAUGE
- THERMOMETER
- STEAM TRAP
- PRESSURE SENSOR
- PUMP

VALVES & FITTINGS:

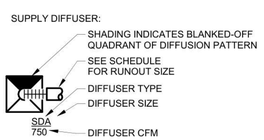
- MATERIAL CHANGE
- AUTOMATIC AIR VENT
- DRAIN
- FLOW METER

GENERAL SYMBOLS:

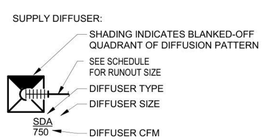
- POINT OF CONNECTION
- POINT OF REMOVAL
- PLAN NOTE
- DEMOLITION NOTE
- REVISION
- DETAIL BUBBLE
- SECTION BUBBLE

DIFFUSERS & REGISTERS

SUPPLY DIFFUSER:



SUPPLY DIFFUSER:



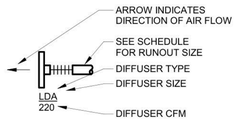
RETURN/EXHAUST GRILLE:



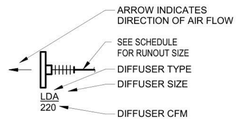
RETURN/EXHAUST GRILLE:



LINEAR BAR & SLOT DIFFUSER:

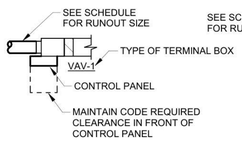


LINEAR BAR & SLOT DIFFUSER:

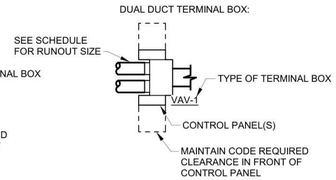


TERMINAL BOXES

SINGLE-DUCT TERMINAL BOX WITH REHEAT COIL



DUAL DUCT TERMINAL BOX:



DUCTWORK:

- SUPPLY ARROW
- RETURN/EXHAUST ARROW
- THERMOSTAT
- THERMOSTAT, LOCKED
- HUMIDISTAT
- SENSOR
- SUPPLY UP
- SUPPLY DOWN
- RETURN/EXHAUST UP
- RETURN/EXHAUST DOWN
- ROUND UP
- ROUND DOWN
- FLAT OVAL SUPPLY UP
- FLAT OVAL SUPPLY DOWN
- 16x12 — RECTANGULAR DUCT WIDTH x HEIGHT
- 16"ø — ROUND DUCT DIAMETER
- 16x12ø — FLAT OVAL DUCT WIDTH x HEIGHT
- 90° MITERED ELBOW WITH TURNING VANES
- W, (r=w), r — ELBOW
- DUCT END CAP
- 15° MAX — DUCT TRANSITION - SLOPED BOTH SIDES
- 15° MAX — DUCT TRANSITION - FLAT ON ONE SIDE
- FLEXIBLE DUCT
- VOLUME DAMPER
- FD — FIRE DAMPER
- M — MOTORIZED DAMPER
- BDD — BACKDRAFT DAMPER
- AD — ACCESS DOOR
- FAN (OR PUMP)

DUCTWORK:

SINGLE LINE REPRESENTATION:

- SUPPLY UP
- SUPPLY DOWN
- RETURN/EXHAUST UP
- RETURN/EXHAUST DOWN
- ROUND UP
- ROUND DOWN
- FLAT OVAL SUPPLY UP
- FLAT OVAL SUPPLY DOWN
- 16x12 — RECTANGULAR DUCT WIDTH x HEIGHT
- 16"ø — ROUND DUCT DIAMETER
- 16x12ø — FLAT OVAL DUCT WIDTH x HEIGHT
- DUCT TURN 90°
- DUCT END CAP
- DUCT TRANSITION - SLOPED ON BOTH SIDES
- DUCT TRANSITION - FLAT ON ONE SIDE
- FLEXIBLE DUCT
- VOLUME BALANCE DAMPER
- FD — FIRE DAMPER
- M — MOTORIZED DAMPER
- BDD — BACKDRAFT DAMPER

PIPING DESIGNATIONS:

- NEW
- EXISTING TO REMAIN
- DEMOLITION
- FUTURE
- PIPE SLOPES IN DIRECTION OF ARROW

FLOW/CONTROL SYMBOLS:

- AI — ANALOG INPUT
- AO — ANALOG OUTPUT
- BI — BINARY INPUT
- BO — BINARY OUTPUT
- CO2 — CARBON DIOXIDE SENSOR
- CS — CURRENT SENSOR
- ΔP — DIFFERENTIAL PRESSURE SENSOR
- S — DUCT SMOKE DETECTOR
- ES — END SWITCH
- H — HUMIDITY SENSOR
- LL — LOW LIMIT TEMPERATURE SENSOR
- M — DAMPER MOTOR
- P — PRESSURE SENSOR
- T — TEMPERATURE SENSOR
- AIR FLOW MEASURING STATION
- AIR HANDLER FAN
- CONTROL VALVE
- HYDRONIC PUMP
- MS — MOTOR STARTER
- VFD — VARIABLE FREQUENCY DRIVE
- FM — FLOW METER

MECHANICAL ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AH	(PARAMETER) ALARM HIGH
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	(PARAMETER) ALARM LOW
AS	AIR SEPARATOR
ASD	ADJUSTABLE SPEED DRIVE (ALSO VFD)
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CH	CHILLER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
℄	CENTERLINE
CO	CLEANOUT
CP	CONDENSATE PUMP
CTF	COOLING TOWER FAN
CTWR	COOLING TOWER WATER RETURN
CTWS	COOLING TOWER WATER SUPPLY
CU	COPPER
CS	CARBON STEEL
CV	CONTROL VALVE
CW	DOMESTIC COLD WATER
D	DRAIN
DB	DRY BULB
DCV	DOUBLE CHECK VALVE
DIA	DIAMETER
DN	DOWN
DPI	DIFFERENTIAL PRESSURE INDICATOR
DPS	DIFFERENTIAL PRESSURE SENSOR
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
ET	EXPANSION TANK
EX	EXISTING
F	FILTER
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FE	FLOW ELEMENT
FLA	FULL LOAD AMPS
FT	FLOW TRANSMITTER
HE	HEAT EXCHANGER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HWRP	HOT WATER RECIRCULATION PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HV	HAND VALVE
LI	LEVEL INDICATOR
LSH	LEVEL SENSOR HIGH
LSL	LEVEL SENSOR LOW
LSLL	LEVEL SENSOR LOW LOW
N2	NITROGEN
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
PH	PHASE
PI	PRESSURE INDICATOR
PIT	PRESSURE INDICATING TRANSMITTER
PRV	PRESSURE REGULATING VALVE
PS	PRESSURE SWITCH
PSV	PRESSURE SAFETY VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PRESSURE TRANSMITTER
PWR	PURIFIED WATER RETURN
PWS	PURIFIED WATER SUPPLY
RF	RETURN FAN
RG	RETURN GRILLE
RO	REVERSE OSMOSIS
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
S	STEAM
SC	STEAM CONDENSATE OR SPEED CONTROLLER
SAN	SANITARY
SD	SUPPLY DIFFUSER
SF	SUPPLY FAN
SFT	SOFT WATER
STR	STRAINER
TI	TEMPERATURE INDICATOR
TT	TEMPERATURE TRANSMITTER
V	VENT
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE (ALSO ASD)
VTR	VENT THROUGH ROOF
WB	WET BULB
WH	WALL HYDRANT
ZS	LIMIT SWITCH

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PROFESSIONAL SEAL:



PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE:
MECHANICAL SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:
M001

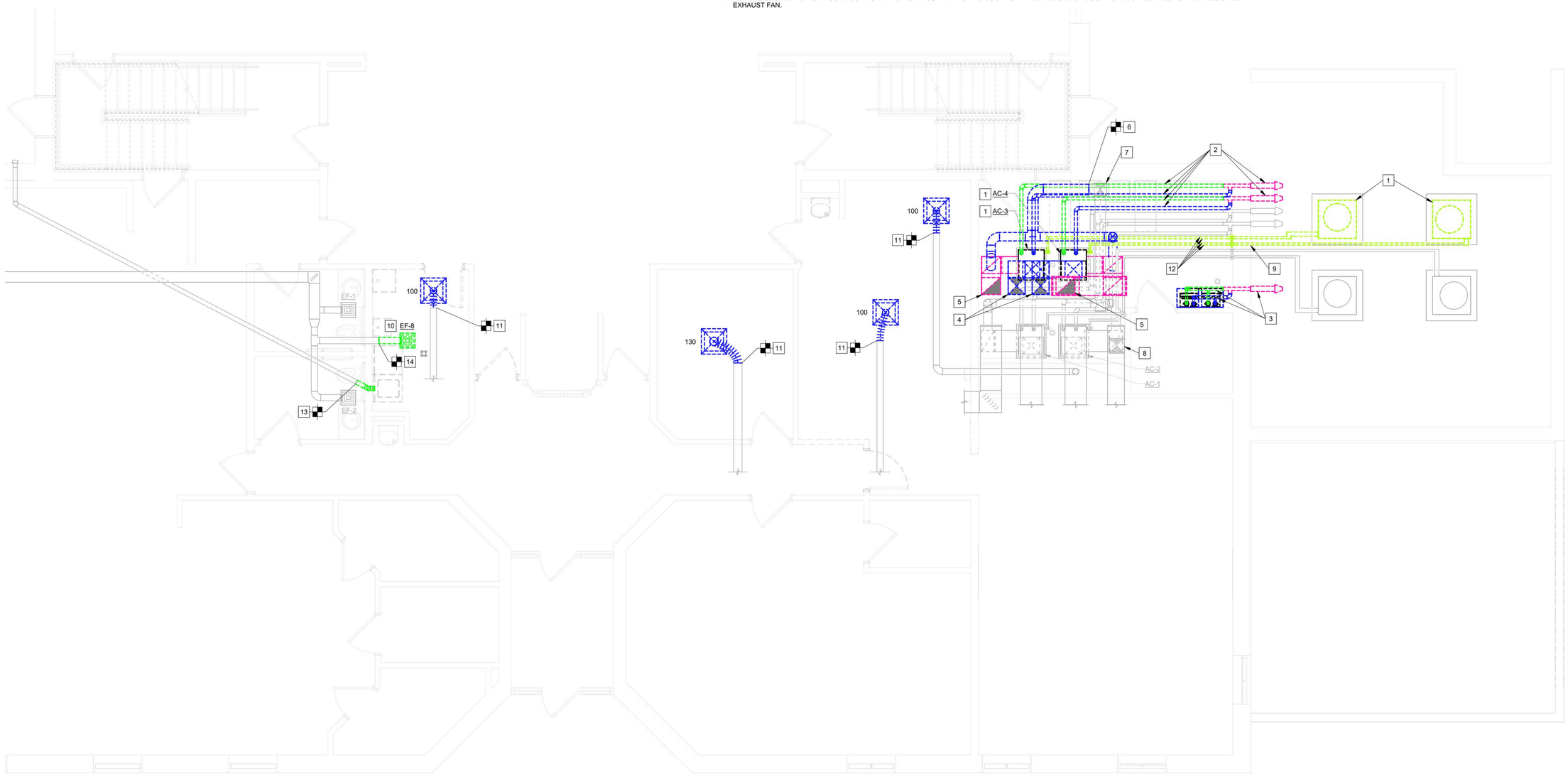
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DEMOLITION NOTES:

1. DEMO THE TWO EXISTING AIR HANDLERS SERVING THE SECOND FLOOR COMPLETE. REMOVE ALL SUPPLY AND RETURN DUCTWORK AND REFRIGERANT TUBING. REMOVE FLUE AND COMBUSTION AIR PVC TO POINT INDICATED. REMOVE ALL HANGERS AND SUPPORTS THAT ARE NO LONGER REQUIRED. REMOVE OUTDOOR CONDENSING UNIT COMPLETE. RECOVER REFRIGERANT AND DISPOSE ACCORDING TO ALL LOCAL AND FEDERAL REGULATIONS.
2. REMOVE FLUE AND COMBUSTION AIR PVC PIPING FROM AIR HANDLER THRU EXTERIOR WALL COMPLETE. REMOVE THRU-THE-WALL VENT KIT COMPLETE. TEMPORARILY COVER THE OPEN WALL PENETRATION DURING CONSTRUCTION. THE WALL PENETRATION MAY BE REUSED FOR NEW HYDRONIC BOILER VENT KIT.
3. REMOVE FLUE AND COMBUSTION AIR PVC PIPING FROM ON-THE-WALL DOMESTIC WATER HEATERS THRU EXTERIOR WALL COMPLETE. REMOVE THRU-THE-WALL VENT KIT COMPLETE. TEMPORARILY COVER THE OPEN WALL PENETRATION DURING CONSTRUCTION. THE WALL PENETRATION MAY BE REUSED FOR NEW DOMESTIC WATER HEATER VENT KIT.
4. REMOVE SUPPLY DUCTWORK AND HANGERS IN MECHANICAL ROOM AND UP TO SECOND FLOOR ABOVE COMPLETE.
5. REMOVE RETURN DUCTWORK AND HANGERS IN MECHANICAL ROOM AND UP TO SECOND FLOOR ABOVE COMPLETE.
6. REMOVE OUTSIDE AIR DUCT AND HANGERS FROM TWO EXISTING AIR HANDLERS TO THIS POINT. CAP END OF DUCT TO SEAL AIRTIGHT. INSULATE OVER CAPPED DUCT END FOR A FULLY INSULATED DUCT SYSTEM.
7. EXISTING DUCT UP TO EXISTING OUTSIDE AIR INTAKE HOOD ON ROOF. DUCT AND OUTSIDE AIR INTAKE HOOD TO REMAIN.
8. EXISTING OUTSIDE AIR INTAKE HOOD ABOVE WITH 14"x14" OPENING. REMOVE MOTORIZED DAMPER AND CONTROL WIRING TO DAMPER COMPLETE. REMOVE ANY DAMAGED DUCTWORK OR DUCTWORK WITH REMAINING HOLES. PREPARE REUSABLE 14"x14" DUCTWORK END UNDER OUTSIDE AIR INTAKE HOOD FOR CONNECTION TO NEW DUCTWORK. SEE NEW PLANS FOR NEW DUCTWORK.
9. SEAL EACH OPENING IN WALL WHERE REFRIGERANT PIPING IS TO BE REMOVED.
10. TEMPORARILY REMOVE CEILING EXHAUST FAN. PROTECT DURING CONSTRUCTION. EXHAUST FAN WILL BE REINSTALLED IN NEW CEILING IN THIS ROOM.
11. TEMPORARILY REMOVE DIFFUSER IN CEILING. EXISTING DIFFUSER WILL BE REINSTALLED IN NEW CEILING IN THIS ROOM. REMOVE AND DISPOSE OF FLEXIBLE DUCTWORK.
12. REMOVE REFRIGERANT PIPING COMPLETE BETWEEN AIR HANDLERS AND CONDENSING UNITS.
13. REMOVE DRYER VENT DUCTWORK FROM DRYER LOCATION TO POINT INDICATED. PREPARE END OF EXISTING TO REMAIN DUCTWORK FOR CONNECTION TO NEW DRYER VENT DUCTWORK.
14. REMOVE SEGMENT OF EXHAUST DUCTWORK FROM EXHAUST FAN TO THIS LOCATION. PREPARE END OF DUCTWORK FOR CONNECTION TO RELOCATED EXHAUST FAN.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.



FIRST FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

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DRAWING TITLE:
FIRST FLOOR MECHANICAL DEMOLITION PLAN

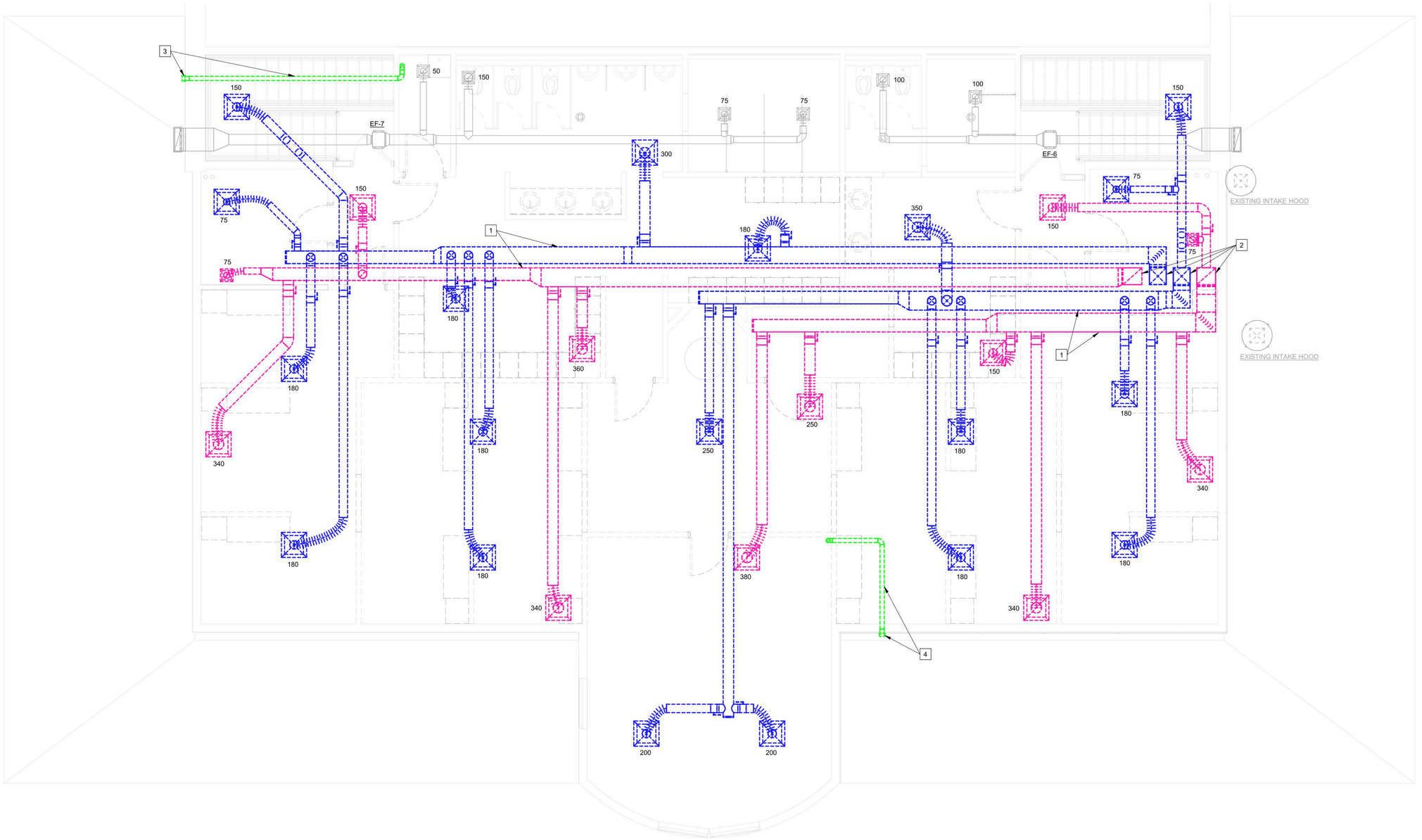
SHEET NUMBER:
M101

DEMOLITION NOTES:

1. REMOVE ALL SUPPLY AIR RETURN DUCTWORK COMPLETE, INCLUDING DIFFUSERS, GRILLES, AND HANGERS.
2. REMOVE ALL SUPPLY AND RETURN DUCTWORK COMPLETE, INCLUDING HANGERS, IN CHASE DOWN TO AIR HANDLERS ON FIRST FLOOR BELOW. SEAL REMAINING OPENINGS IN FLOOR.
3. REMOVE DRYER VENT DUCTWORK AND WALL DISCHARGE HOOD COMPLETE. SEAL OPENING WITH INSULATED SHEETMETAL CAP. PAINT CAP TO MATCH BRICK COLOR.
4. REMOVE DRYER VENT DUCTWORK AND WALL DISCHARGE HOOD COMPLETE. SEAL OPENING WITH INSULATED SHEETMETAL CAP. PAINT CAP TO MATCH EXTERIOR WALL COLOR.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.



SECOND FLOOR MECHANICAL DEMOLITION PLAN

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

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DRAWING TITLE: SECOND FLOOR MECHANICAL DEMOLITION PLAN

SHEET NUMBER: M111

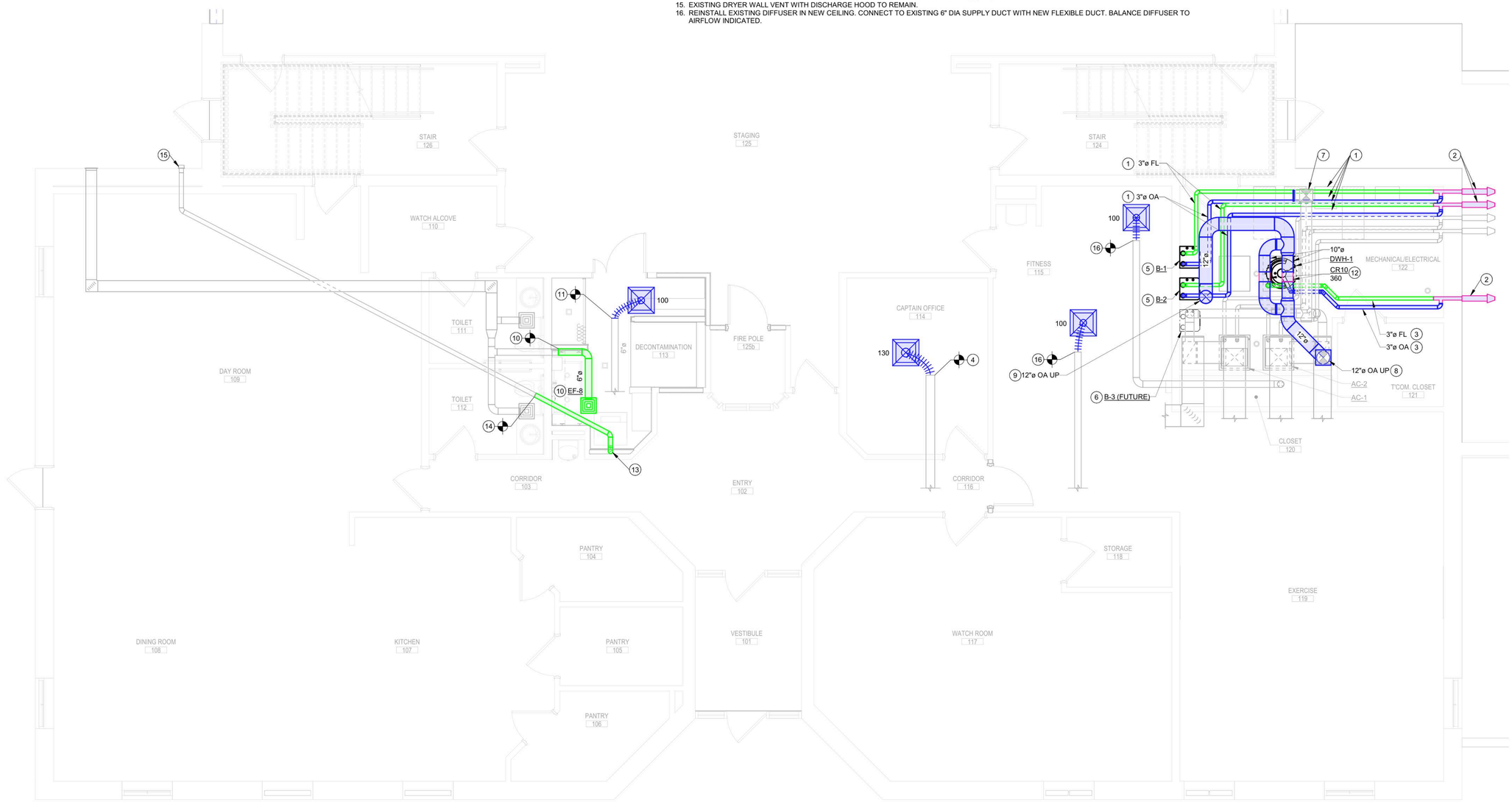
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PLAN NOTES:

1. SLOPE FLUE AND OUTSIDE AIR PIPING BACK TO BOILER MINIMUM 1/4" PER FT. SCH 40, SOLID CORE PVC FLUE AND COMBUSTION AIR PIPE.
2. NEW PVC CONCENTRIC, THRU-THE-WALL VENT KIT. CONNECT FLUE TO THE CENTER FITTING AND COMBUSTION AIR TO THE OUTER/SIDE FITTING PER MANUFACTURER'S INSTRUCTIONS. SEAL WALL AROUND VENT KIT.
3. SLOPE FLUE PIPING BACK TO WATER HEATER MINIMUM 1/4" PER FT. SCH 40, SOLID CORE PVC FLUE AND COMBUSTION AIR PIPE.
4. REINSTALL EXISTING DIFFUSER IN NEW CEILING. CONNECT TO EXISTING 8" DIA SUPPLY DUCT WITH NEW FLEXIBLE DUCT. BALANCE DIFFUSER TO AIRFLOW INDICATED.
5. SUPPORT BOILER ON WALL. SEE PIPING DRAWINGS FOR ADDITIONAL INFORMATION.
6. LEAVE SPACE CLEAR FOR FUTURE BOILER.
7. EXISTING DUCT UP TO EXISTING OUTSIDE AIR INTAKE HOOD ON ROOF.
8. CONNECT TO EXISTING 14"x14" DUCT UP TO EXISTING OUTSIDE AIR INTAKE HOOD ON ROOF ABOVE. INSULATE DUCTWORK CONTINUOUSLY TO ROOF DECK OR TERMINATION OF DUCTWORK AT INTAKE HOOD.
9. ROUTE OUTSIDE AIR DUCT UP THROUGH CHASE ON SECOND FLOOR ABOVE. CONNECT TO RETURN DUCT ABOVE CHASE.
10. MOVE EXISTING EXHAUST FAN TO THIS LOCATION IN NEW CEILING. RECONNECT TO EXISTING EXHAUST DUCTWORK. RECONNECT POWER. FAN SHALL OPERATE CONTINUOUSLY. REMOVE SWITCH ON WALL. WIRING AND POWER BY ELECTRICAL CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR. TEST AND BALANCE CONTRACTOR TO MEASURE AIRFLOW THROUGH EXHAUST FAN.
11. REINSTALL EXISTING DIFFUSER IN NEW CEILING. CONNECT TO EXISTING 6" DIA SUPPLY DUCT WITH NEW FLEXIBLE DUCT. BALANCE DIFFUSER TO AIRFLOW INDICATED. IF EXHAUST FAN, EF-8, OPERATES AT LESS THAN 150 CFM, REDUCE THE SUPPLY DIFFUSER AIRFLOW IN 113 DECONTAMINATION TO 50 CFM LESS THAN THE MEASURED AIRFLOW AT EXISTING EXHAUST FAN, EF-8.
12. SEE "8/M502 - CONSTANT AIRFLOW REGULATOR INSTALLATION DETAIL." TEST AND BALANCE CONTRACTOR TO ADJUST EACH CONSTANT AIRFLOW REGULATOR TO 360 CFM SO THE TOTAL OUTSIDE AIR DELIVERED TO THE AIR HANDLER IS MAINTAINED AT 720 CFM.
13. RECESSED, METAL DRYER BOX IN WALL. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ROUTE GALVANIZED SHEETMETAL DUCT FROM DRYER BOX, THROUGH WALL INTO ACCESSIBLE CEILING SPACE ABOVE. ROUTE OVERHEAD TO DRYER DISCHARGE FITTING IN EXTERIOR WALL. CONNECT DRYER TO SHEETMETAL DUCT IN WALL BOX WITH FLEXIBLE DUCT.
14. CONNECT TO EXISTING 4" DRYER VENT DUCTWORK WITH NEW 4" DRYER VENT DUCTWORK.
15. EXISTING DRYER WALL VENT WITH DISCHARGE HOOD TO REMAIN.
16. REINSTALL EXISTING DIFFUSER IN NEW CEILING. CONNECT TO EXISTING 6" DIA SUPPLY DUCT WITH NEW FLEXIBLE DUCT. BALANCE DIFFUSER TO AIRFLOW INDICATED.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.



FIRST FLOOR MECHANICAL PLAN

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

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STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
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FIRST FLOOR MECHANICAL PLAN

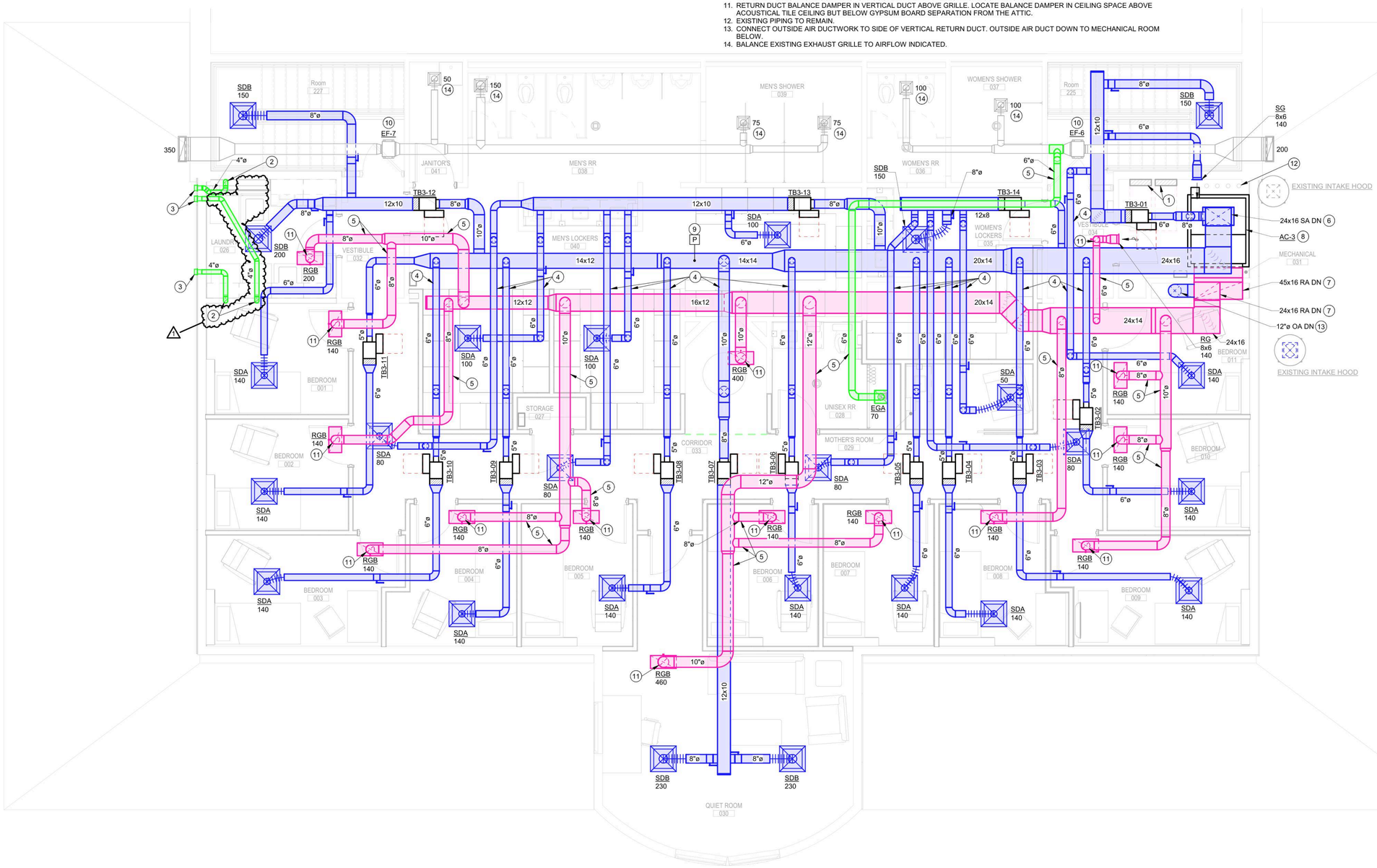
SHEET NUMBER:
M301

(#) PLAN NOTES:

1. DO NOT LOCATE DUCTWORK OR PIPING OVER ELECTRICAL PANELS.
2. RECESSED, METAL DRYER BOX IN WALL. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ROUTE GALVANIZED SHEETMETAL DUCT FROM DRYER BOX, THROUGH WALL INTO ACCESSIBLE CEILING SPACE ABOVE. ROUTE OVERHEAD TO DRYER DISCHARGE FITTING IN EXTERIOR WALL. CONNECT DRYER TO SHEETMETAL DUCT IN WALL BOX WITH FLEXIBLE DUCT.
3. 4" DIA INLET STAINLESS STEEL DRYER WALL VENT WITH RECTANGULAR DISCHARGE HOOD AND INTEGRAL BACKDRAFT DAMPER. CAULK AROUND WALL VENT AT INTERFERENCE WITH WALL. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL AT 8'-8" AFF. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR THE EXACT LOCATION / PLACEMENT OF DRYER VENT DISCHARGE POINT.
4. SUPPLY DUCTWORK BRANCH ROUTED THROUGH ATTIC SPACE ABOVE GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE. DUCTWORK INSULATED CONTINUOUSLY THRU THE CONDITIONED AND UNCONDITIONED SPACES. SEAL DUCT PENETRATION INTO THE ATTIC AT THE INSULATION AND GYPSUM BOARD INTERFACE WITH SILICONE CAULKING.
5. RETURN OR EXHAUST DUCTWORK BRANCH ROUTED THROUGH ATTIC SPACE ABOVE GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE. DUCTWORK SHALL BE INSULATED THRU THE UNCONDITIONED ATTIC SPACE ABOVE AND MINIMUM 3" THRU THE GYPSUM BOARD SEPARATION ABOVE THE ACOUSTICAL TILE CEILING. FINISH END OF INSULATION WITH SEALANT BELOW ATTIC TO MAINTAIN A CONTINUOUS VAPOR BARRIER. RETURN DUCTWORK BELOW THE ATTIC SHALL BE UNINSULATED. SEAL DUCT PENETRATION INTO THE ATTIC AT THE INSULATION AND GYPSUM BOARD INTERFACE WITH SILICONE CAULKING.
6. SUPPLY DUCT DOWN TO AIR HANDLER. TRANSITION TO DISCHARGE DUCT SIZE IN VERTICAL.
7. RETURN DUCT DOWN TO AIR HANDLER WITHIN THE FOOTPRINT OF EXISTING CHASE WALL. TRANSITION TO 45"x16" IN VERTICAL. CONNECT TO RETURN INTAKE OF AIR HANDLER AT SIDE OF UNIT.
8. SEE "7/M502 - AC-3 DETAIL." INSTALL AIR HANDLER ON NEW 3.5" THICK CONCRETE HOUSEKEEPING PAD. SEE "5/M502 - HOUSEKEEPING PAD DETAIL.
9. LOCATE DUCT PRESSURE SENSOR FOR CONTROL OF SUPPLY FAN HERE. SEE "ME701 - HVAC CONTROLS, WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
10. EXHAUST FAN TO OPERATE CONTINUOUSLY. REMOVE EXISTING FAN SWITCH ON WALL IN ASSOCIATED LOCKER ROOM. WIRING AND POWER BY ELECTRICAL CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR.
11. RETURN DUCT BALANCE DAMPER IN VERTICAL DUCT ABOVE GRILLE. LOCATE BALANCE DAMPER IN CEILING SPACE ABOVE ACOUSTICAL TILE CEILING BUT BELOW GYPSUM BOARD SEPARATION FROM THE ATTIC.
12. EXISTING PIPING TO REMAIN.
13. CONNECT OUTSIDE AIR DUCTWORK TO SIDE OF VERTICAL RETURN DUCT. OUTSIDE AIR DUCT DOWN TO MECHANICAL ROOM BELOW.
14. BALANCE EXISTING EXHAUST GRILLE TO AIRFLOW INDICATED.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.
B. INSTALL DUCTWORK AND TERMINAL UNIT ABOVE ACOUSTICAL TILE CEILING AND BELOW GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE UNLESS OTHERWISE NOTED ON PLAN.



SECOND FLOOR MECHANICAL PLAN

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

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Tel: 317.810.4141 • Fax: 317.810.4140 • www.applied-e-s.com

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Carmel Fire Department
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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE: SECOND FLOOR MECHANICAL PLAN

SHEET NUMBER: M311

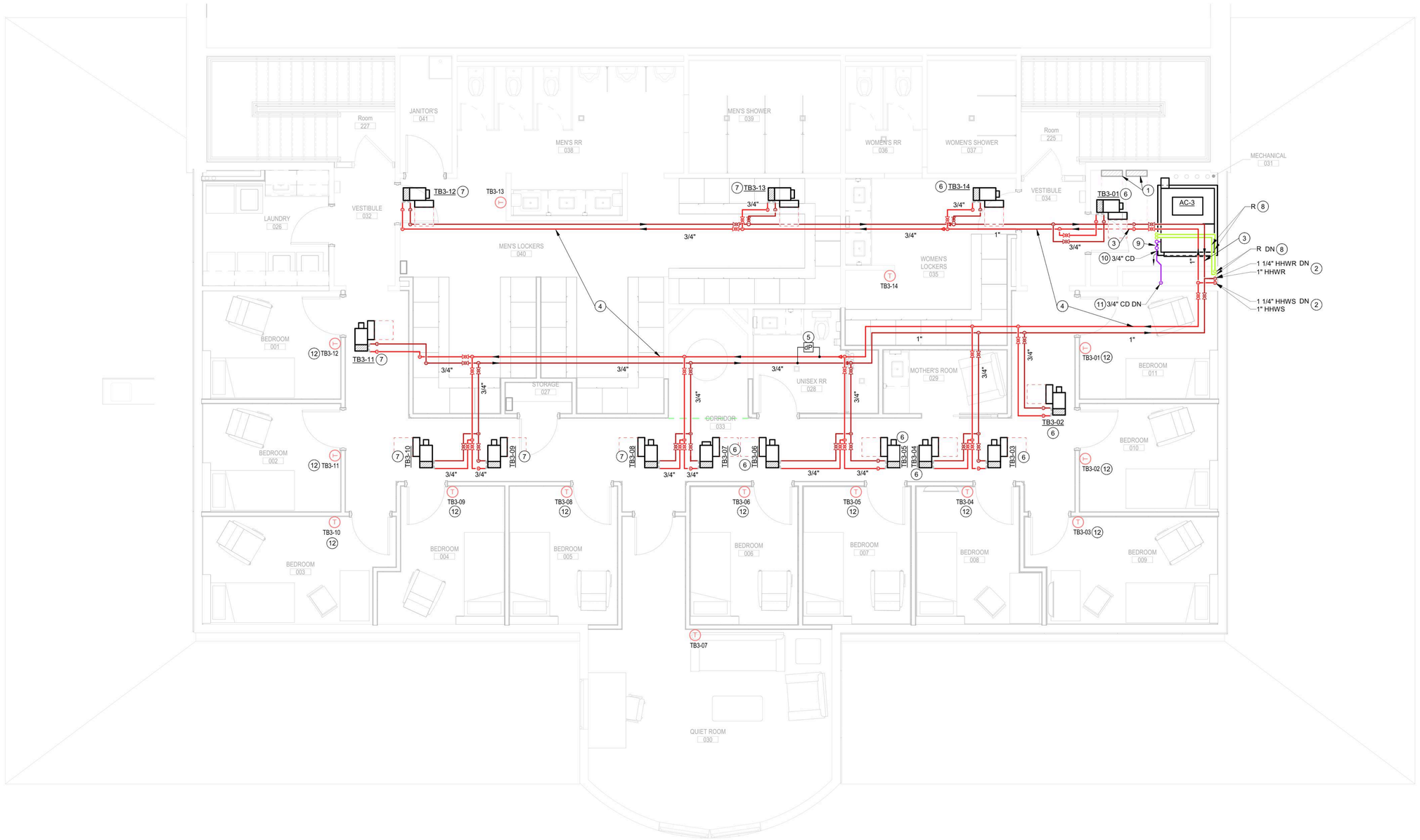
Autodesk Docs://250060 - Carmel Fire Station 42&46/25-150_Carmel Fire Station 42_MEP2024.rvt
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(#) PLAN NOTES:

1. DO NOT LOCATE DUCTWORK OR PIPING OVER ELECTRICAL PANELS.
2. HEATING WATER PIPING DOWN TO MECHANICAL ROOM BELOW.1-1/4" DIAMETER BELOW TEE IN VERTICAL PIPING. 1" DIAMETER ABOVE TEE IN VERTICAL PIPING.
3. HEATING WATER PIPING IN MECHANICAL ROOM EXPOSED TO VIEW. INSTALL ALL HEATING WATER PIPING BELOW GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE.
4. ROUTE HEATING WATER PIPING ABOVE ACOUSTICAL TILE CEILING. INSTALL ALL HEATING WATER PIPING BELOW GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE.
5. LOCATE DIFFERENTIAL PRESSURE SENSOR FOR CONTROL OF SECONDARY PUMPS HERE. SEE "ME702 - HVAC CONTROLS, WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
6. 2-WAY CONTROL VALVE AT TERMINAL UNIT REHEAT COIL. SEE DETAIL, "2/M501 - 2-WAY HYDRONIC COIL PIPING DETAIL."
7. 3-WAY CONTROL VALVE AT TERMINAL UNIT REHEAT COIL. SEE DETAIL, "3/M501 - 3-WAY HYDRONIC COIL PIPING DETAIL."
8. ROUTE REFRIGERANT PIPING BETWEEN AIR HANDLER AND OUTDOOR CONDENSING UNIT ON GRADE BELOW. FOLLOW ALL MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.
9. CONNECT TO CONDENSATE DRAIN OF AIR HANDLER WITH CONDENSATE TRAP. SEE "9/M502 - CONDENSATE TRAP DETAIL.
10. CONDENSATE DRAIN SHALL BE COPPER WITH INSULATION. SLOPE HORIZONTAL PIPE MINIMUM 1/4" PER 1'-0".
11. ROUTE CONDENSATE DRAIN DOWN THROUGH CHASE TO FLOOR DRAIN IN MECHANICAL ROOM BELOW.
12. SEE DETAIL "9/E501 - BUNK ROOM DEVICE ELEVATION DETAIL" FOR SPECIFIC LOCATION OF TEMPERATURE SENSOR IN BUNK ROOMS.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.
B. INSTALL CENTER OF SPACE TEMPERATURE SENSOR AT SAME ELEVATION AS THE MOST ADJACENT LIGHT SWITCH. IF NO LIGHT SWITCH IS IN THE ROOM, LOCATE CENTER OF THERMOSTAT AT 4'-0". FOR BUNK ROOMS, SEE PLAN NOTES.
C. ALL SPACE TEMPERATURE SENSORS SHALL EITHER NOT BE BACK LIT OR THE BACK LIGHT SHALL TURN OFF WHEN USER INTERFACE IS INACTIVE. THE INTENT IS THAT THE THERMOSTAT DOES NOT NORMALLY PRODUCE VISIBLE LIGHT IN THE SPACE.



SECOND FLOOR PIPING PLAN
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE: SECOND FLOOR PIPING PLAN

SHEET NUMBER: M312

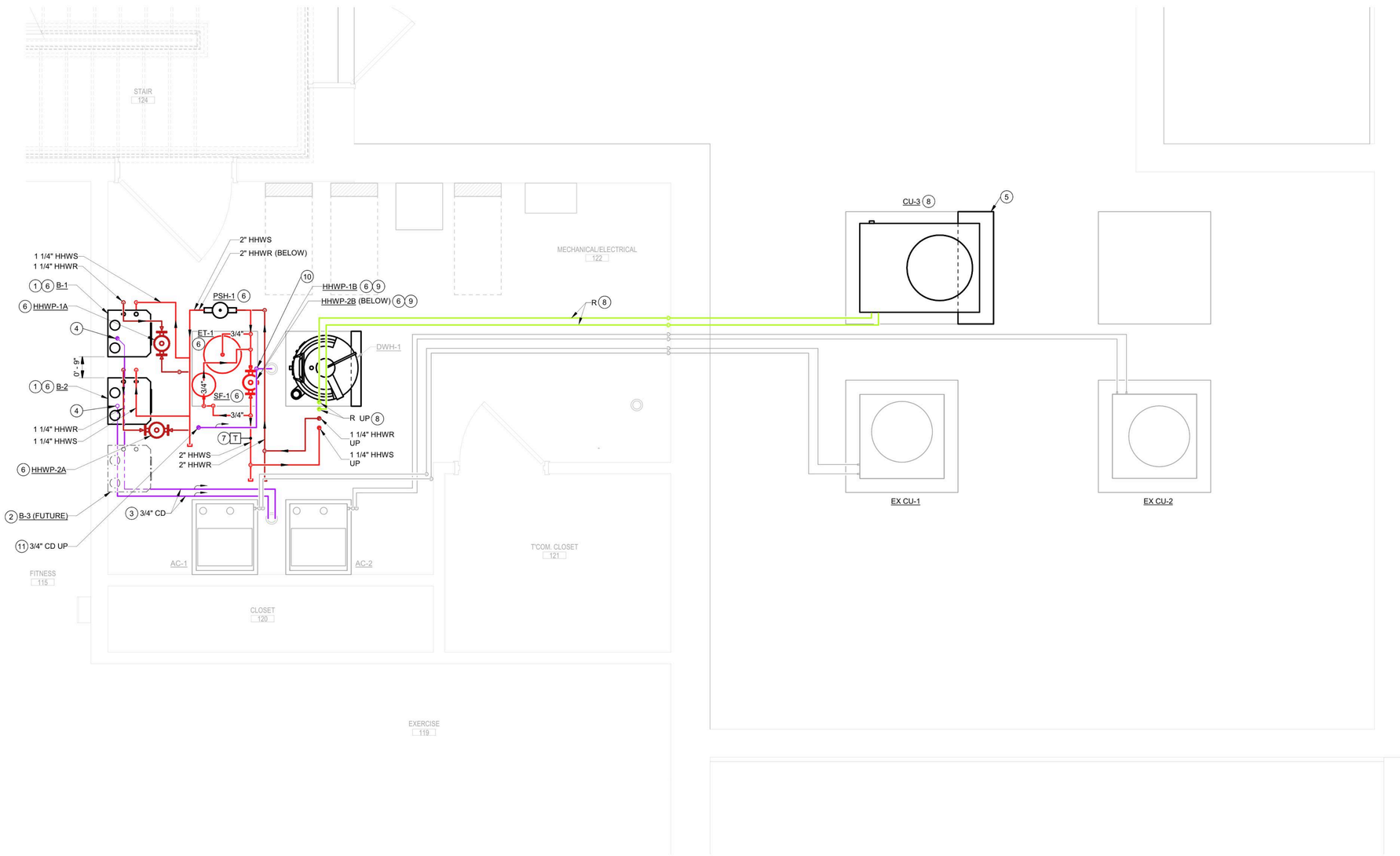
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(#) PLAN NOTES:

1. INSTALL NEW BOILER ON WALL. BOTTOM OF BOILER 2'-0" AFF. PROVIDE STRUT OR BLOCKING TO SUPPORT BOILER.
2. SPACE FOR FUTURE BOILER. KEEP SPACE CLEAR.
3. ROUTE INDIVIDUAL CONDENSATE DRAIN FROM EACH BOILER TO FLOOR DRAIN INDICATED. SLOPE HORIZONTAL PIPE MINIMUM 1/4" PER 1'-0". DO NOT CREATE A TRIP HAZARD ON MECHANICAL ROOM FLOOR. CONDENSATE DRAIN SHALL BE SOLID CORE, SCH 40, PVC.
4. INSTALL CONDENSATE NEUTRALIZER IN EACH CONDENSATE DRAIN.
5. EXTEND EXISTING CONCRETE PAD TO LENGTH OF NEW CONDENSING UNIT. REBAR EXTENSION INTO EXISTING PAD. EXTENSION TO MATCH THE THICKNESS OF EXISTING PAD.
6. SEE DETAIL "1/M501 - HEATING WATER SYSTEM DETAIL" FOR ADDITIONAL INFORMATION REGARDING INSTALLATION OF THE BOILER, PRIMARY AND SECONDARY PUMPS, PRIMARY/SECONDARY HEADER, EXPANSION TANK, CHEMICAL SHOT FEEDER, FLUE AND COMBUSTION AIR PIPING, HEATING WATER AND DRAIN PIPING, PIPING APPURTENANCES, AND EQUIPMENT SUPPORTS.
7. LOCATE HEATING WATER SUPPLY TEMPERATURE SENSOR FOR CONTROL OF BOILERS HERE. SEE "ME702 - HVAC CONTROLS, WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
8. ROUTE REFRIGERANT PIPING BETWEEN OUTDOOR CONDENSING UNIT AND AIR HANDLER IN SECOND FLOOR MECHANICAL ROOM ABOVE. FOLLOW ALL MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.
9. SUPPORT SECONDARY PUMPS ON STRUT SYSTEM AT ELEVATIONS INDICATED ON HEATING WATER SYSTEM DETAIL.
10. SUPPORT VERTICAL CONDENSATE DRAIN DOWN TO FLOOR ON STRUT SYSTEM SUPPORTING THE TWO SECONDARY HEATING WATER PUMPS.
11. CONDENSATE DRAIN FROM NEW AIR HANDLER, AC-3, ON FLOOR ABOVE. ROUTE TO FLOOR DRAIN. SLOPE HORIZONTAL PIPE MINIMUM 1/4" PER 1'-0". CONDENSATE DRAIN SHALL BE COPPER WITH INSULATION.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.



FIRST FLOOR ENLARGED PIPING PLAN

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

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

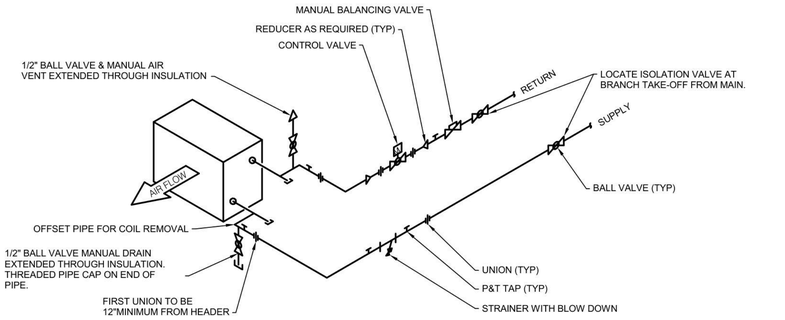
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DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TA

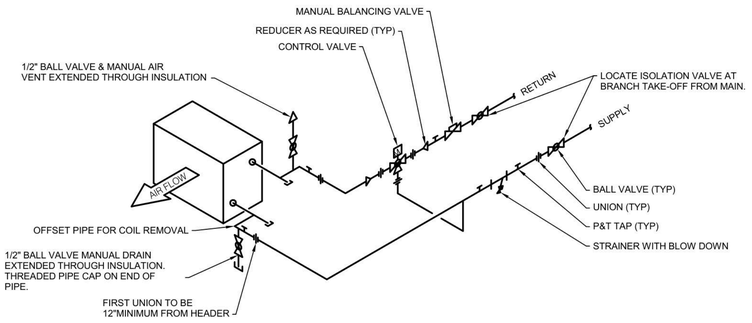
DRAWING TITLE: FIRST FLOOR ENLARGED PIPING PLAN

SHEET NUMBER: M401

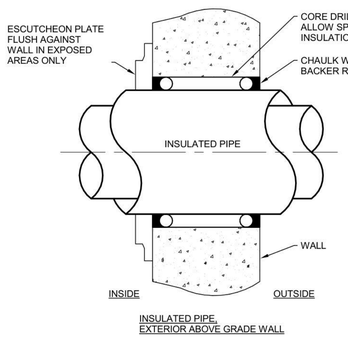
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2 2-WAY HYDRONIC COIL PIPING DETAIL
SCALE: 12" = 1'-0"

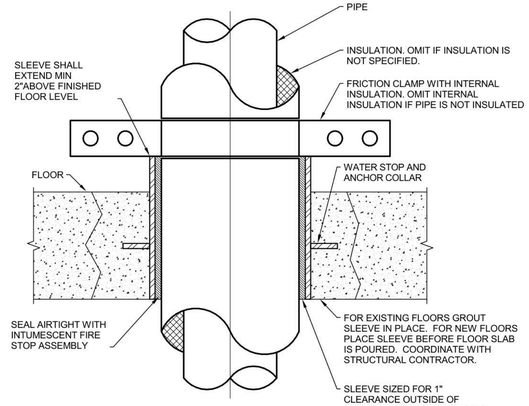


3 3-WAY HYDRONIC COIL PIPING DETAIL
SCALE: 12" = 1'-0"

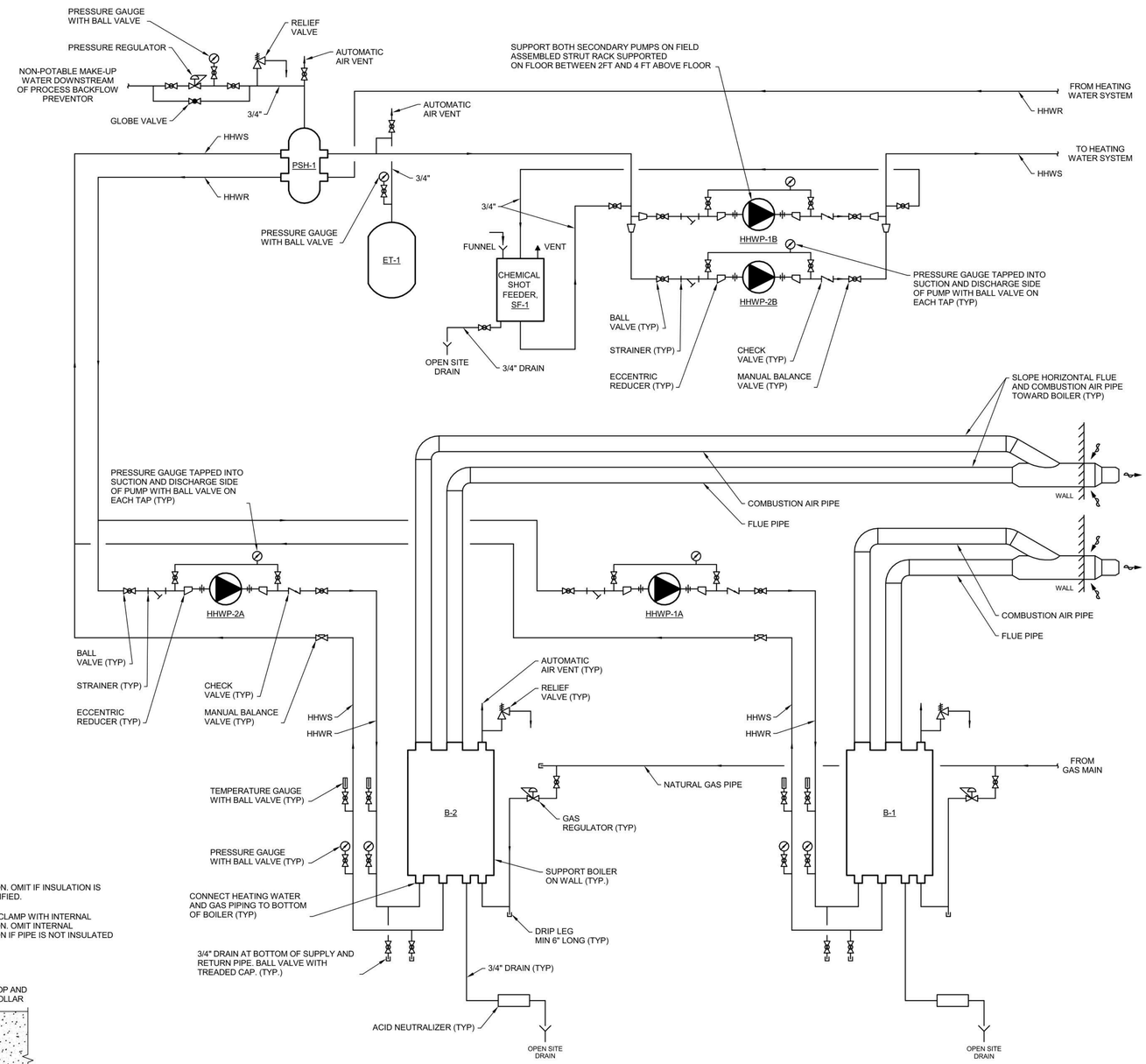


INSULATED PIPE,
EXTERIOR ABOVE GRADE WALL

5 PIPE WALL PENETRATION DETAIL
SCALE: 1/4" = 1'-0"



4 PIPE FLOOR PENETRATION DETAIL
SCALE: 1/4" = 1'-0"



1 HEATING WATER SYSTEM DETAIL
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:



PROJECT NUMBER:
25-150

REVISION SCHEDULE

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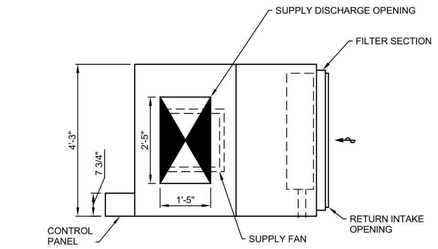
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05/15/26	MDJ	TMA

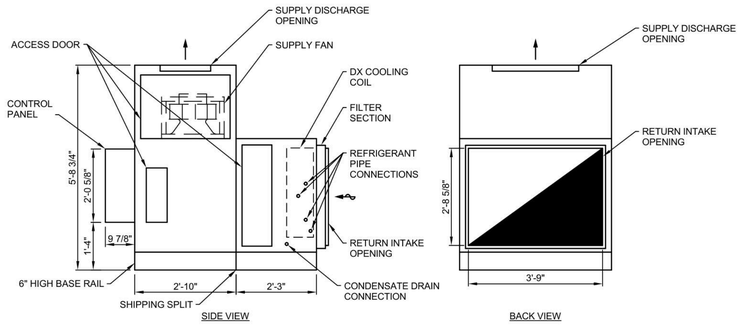
DRAWING TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M501

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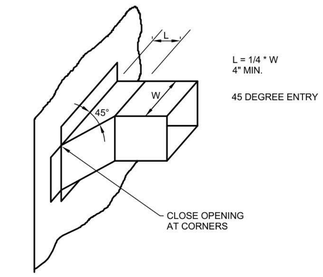
TOP VIEW



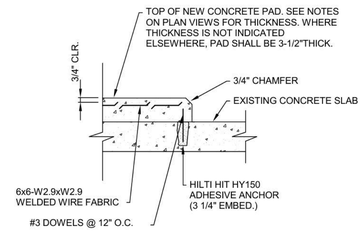
SIDE VIEW

BACK VIEW

7 AC-3 DETAIL
SCALE: 1/2" = 1'-0"

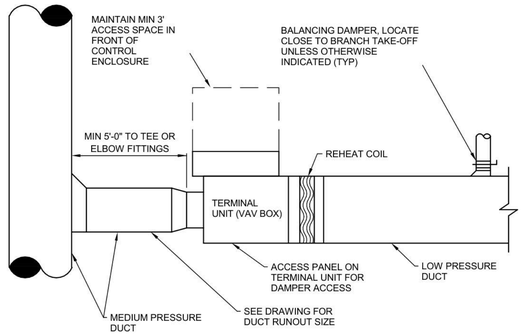


4 45 DEGREE ENTRY TEE DETAIL
SCALE: 1/4" = 1'-0"

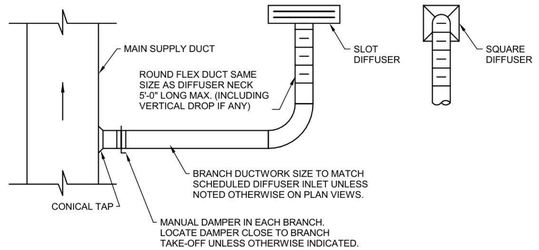


NOTES:
1. DIRECTION FOR HOUSEKEEPING PADS ON STRUCTURAL DRAWINGS SHALL SUPERCEDE INSTRUCTION ON THIS DETAIL.

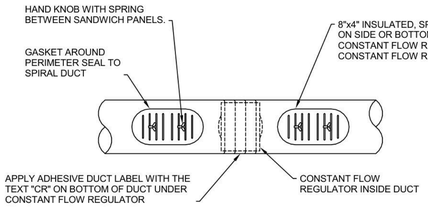
5 HOUSEKEEPING PAD DETAIL
SCALE: 1/4" = 1'-0"



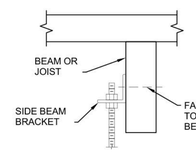
1 TERMINAL UNIT DUCT DETAIL
SCALE: 1/4" = 1'-0"



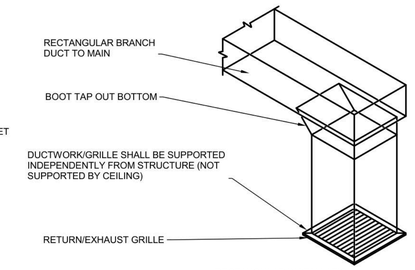
2 SUPPLY DIFFUSER DETAIL
SCALE: 1/4" = 1'-0"



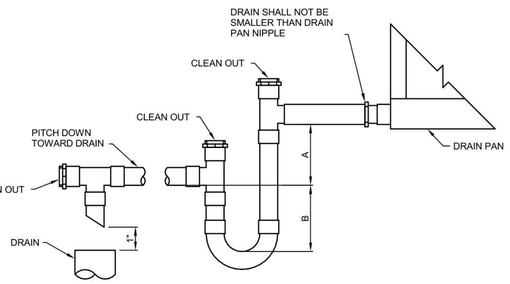
8 CONSTANT AIRFLOW REGULATOR INSTALLATION DETAIL
SCALE: 1 1/2" = 1'-0"



HANGER ROD UPPER ATTACHMENT

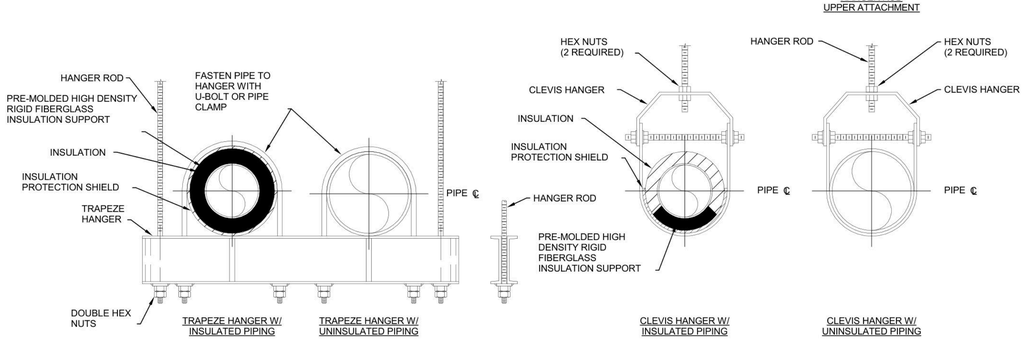


RECTANGULAR INSTALLATION



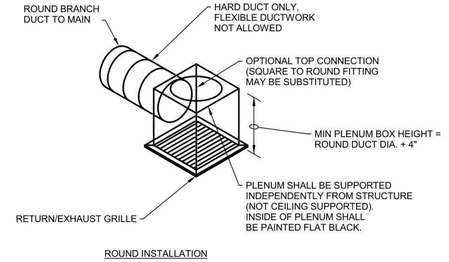
NOTE:
1.H=FAN INLET PRESSURE (IN. WC)
2.FOR DRAW THRU UNITS: A=H+1", B=H/2+1".
3.FOR BLOW THRU UNITS: A=2"MIN, B=2H.
4.DRAIN MATERIAL SHALL BE COPPER TYPE DWV.

9 CONDENSATE TRAP DETAIL
SCALE: 12" = 1'-0"



NOTES:
1. CONTRACTOR MAY USE ANY STRUCTURAL FASTENER DETAILED. INSTALL CLEVIS HANGER PER THE APPROPRIATE PIPE TYPE, INSULATED OR UNINSULATED.

6 TYPICAL PIPE SUPPORT DETAIL
SCALE: 12" = 1'-0"



ROUND INSTALLATION

3 RETURN & EXHAUST GRILLE DETAIL
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:

MICHEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M502

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5/15/2026 9:46:05 AM

AHU UNIT SCHEDULE (1/2)

NOTES:
1. INTEGRAL FACTORY CONTROLS WITH PRE-PROGRAMMED SEQUENCES TO CONTROL ALL FUNCTIONS OF AIR HANDLER IN A STAND ALONE CONFIGURATION. SEE "AHU-3 AIR HANDLER FLOW/CONTROL DIAGRAM" ON SHEET "ME701 - HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
2. SUPPLY FAN TO HAVE EC MOTOR CONTROLLED BY INTEGRAL CONTROLLER.
3. MANUFACTURER TO PROVIDE REMOTE DUCT PRESSURE SENSOR. CONTRACTOR TO FIELD INSTALL SENSOR.
4. MODULAR AIR HANDLER WITH DX COOLING COIL SECTION AND SUPPLY FAN SECTION. SUPPLY FAN SHALL BE CONFIGURED IN A VERTICAL ORIENTATION. DOUBLE WALL GALVANIZED SHEETMETAL PANELS WITH 2" INJECTED FOAM, R-13.
5. SEE "AIR COOLED CONDENSING UNIT SCHEDULE" BELOW FOR THE PAIRED REMOTE CONDENSING/COMPRESSOR UNIT TO BE INSTALLED OUTSIDE.
6. DX EVAPORATOR COIL MINIMUM AIRFLOW: 1,910 CFM OR LESS.
7. SEE "7/M502 - AC-3 DETAIL."

					FAN								ELECTRICAL DATA							BASIS OF DESIGN			
UNIT TAG	AREA SERVED	TYPE	CFM	OA CFM	TYPE	DRIVE	NO. OF FANS	TOTAL S.P.	EXTERNAL S.P.	FAN RPM	BHP	HP	VOLTS	PH	FLA	MCA	MOCP	DISC. SWITCH BY	STARTER TYPE	STARTER BY	MANUFACTURER	MODEL NO.	WEIGHT	NOTES
AC-3	SECOND FLOOR	MODULAR VERTICAL AIR HANDLER WITH DX COOLING AND REMOTE CONDENSER/COMPRESSOR	3,460 CFM	720 CFM	CENTRIFUGAL	DIRECT-ECM	1	2.69 in-wg	1.5 in-wg	1770	1.813	2	480 V	3	6.36 A	7.89 A	15 A	ELECTRICAL CONTRACTOR	EM MOTOR	MANUFACTURER	TRANE	UCCA	900 lb	SEE ALL

AHU UNIT SCHEDULE (2/2)

				DX COOLING COIL										FILTERS			BASIS OF DESIGN			
UNIT TAG	CFM	OA CFM	EER	TOTAL MBH	SENSIBLE MBH	EADB	EAWB	LADB	LAWB	REFRIG. TYPE	COOLING COIL ROWS	MAX. FACE VELOCITY	MIN. FACE AREA	NO.	TYPE	SIZE	MANUFACTURER	MODEL NO.	WEIGHT	NOTES
AC-3	3,460 CFM	720 CFM	11.7	110.3	79.9	76.8 °F	65.5 °F	55.76 °F	55.08 °F	R-454B	6	500 FPM	7.64 ft²	4	2" THICK, MERV-8	16" x 20"	TRANE	UCCA	900 lb	SEE ALL

AIR COOLED CONDENSING UNIT SCHEDULE

NOTES:
1. AMBIENT DESIGN TEMPERATURE, 95 F.
2. SEE "AIR HANDLER SCHEDULE" ABOVE FOR THE PAIRED REMOTE CONDENSING/COMPRESSOR UNIT TO BE INSTALLED OUTSIDE.

				COOLING			ELECTRICAL						BASIS OF DESIGN			
UNIT TAG	UNIT TYPE	UNIT SERVED	LOCATION	TONS	SEER	REFRIG. TYPE	FLA	MCA	MOCP	VOLTS	PH	DISC. SWITCH BY	MANUFACTURER	MODEL NO.	WEIGHT	NOTES
CU-3	UNITARY SPLIT SYSTEM CONDENSER / COMPRESSOR	AC-3	OUTSIDE	10	14.3	R-454B	16.8 A	20 A	25 A	480 V	3	ELECTRICAL CONTRACTOR	TRANE	TTA120K4DDA	410 lb	SEE ALL

HOT WATER BOILER SCHEDULE

NOTES:
1. INTEGRAL FACTORY CONTROLS WITH PRE-PROGRAMMED SEQUENCES TO CONTROL ALL FUNCTIONS OF BOILER AND PRIMARY PUMPS (BOILER PUMPS) WITHOUT THE NEED FOR A BUILDING AUTOMATION SYSTEM. SEE "ME702 - HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
2. MANUFACTURER TO PROVIDE REMOTE OUTSIDE AIR TEMPERATURE SENSOR AND REMOTE HEATING WATER SUPPLY TEMPERATURE SENSOR. CONTRACTOR TO FIELD INSTALL EACH SENSOR.
3. DRAFT BLOWER SHALL PRODUCE SUFFICIENT PRESSURE FOR COMBUSTION AIR AND FLUE DUCTWORK AS SHOWN ON PLAN VIEWS. NOTIFY ENGINEER IF COMBUSTION AIR AND/OR FLUE LENGTH, NUMBER OF FITTINGS, OR DIAMETER IS INSUFFICIENT FOR PROPER OPERATION OF BOILER. BY SUBMITTING A BID, MANUFACTURER ACCEPTS COMBUSTION AIR AND FLUE ROUTING DESCRIBED IN THESE CONSTRUCTION DOCUMENTS.
4. BOILER MINIMUM FLOWRATE: 4.4 GPM OR LESS.
5. MIN AHRI THERMAL EFFICIENCY: 92%.
6. MANUFACTURER PROVIDED DISCONNECT.

				GAS PRESSURE											ELECTRICAL DATE				BASIS OF DESIGN		WEIGHT	
UNIT TAG	LOCATION	TYPE	FUEL	MIN.	MAX.	INPUT MBH	OUTPUT MBH	MIN. TURN DOWN	GPM	EWT	LWT	MAX. WATER P.D.	WATER VOLUME	RELIEF VALVE SETTING	STARTER BY	FLA	VOLTS	PH	MANUFACTURER	MODEL NO.	OPERATING	NOTES
B-1	MECHANICAL/ELECTRICAL 122	WALL HUNG, FIRE TUBE, CONDENSING	NATURAL GAS	4 psi	14 psi	110	101	5:1	10 GPM	120 °F	140 °F	10 ftH2O	1.4 gal	30 psi	MANUFACTURER	12 A	120 V	1	NTI BOILERS	TFTN-110	107 lb	SEE ALL
B-2	MECHANICAL/ELECTRICAL 122	WALL HUNG, FIRE TUBE, CONDENSING	NATURAL GAS	4 psi	14 psi	110	101	5:1	10 GPM	120 °F	140 °F	10 ftH2O	1.4 gal	30 psi	MANUFACTURER	12 A	120 V	1	NTI BOILERS	TFTN-110	107 lb	SEE ALL

PUMP SCHEDULE

NOTES:
1. SINGLE SPEED MOTOR/PUMP. NEMA PREMIUM EFFICIENT MOTOR. ODP MOTOR ENCLOSURE.
2. INTEGRAL PUMP CONTROLLER WITH EC MOTOR. CONTROLLER SHALL INCLUDE PRE-PROGRAMMED FACTORY CONTROLS CAPABLE OF MAINTAINING A CONSTANT SYSTEM DIFFERENTIAL PRESSURE AS MEASURED AT A REMOTE HEATING WATER SYSTEM PRESSURE SENSOR, PUMP ROTATION, AND LEAD-LAG OPERATION. SEE SHEET "ME702 - HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL INFORMATION. NEMA PREMIUM EFFICIENT MOTOR. ODP MOTOR ENCLOSURE.
3. MANUFACTURER TO PROVIDE REMOTE HEATING WATER DIFFERENTIAL PRESSURE SENSOR. CONTRACTOR TO FIELD INSTALL SENSOR.

		DESIGN CRITERIA						MOTOR DATA				ELECTRICAL		BASIS OF DESIGN			
UNIT TAG	LOCATION	TYPE	FLOW	TDH	FLUID	MIN. FLUID TEMP.	MAX. FLUID TEMP.	HP	RPM	VOLTS	PH	DISCONNECT BY	STARTER BY	MANUFACTURER	MODEL NO.	WEIGHT	NOTES
HHWP-1A	MECHANICAL/ELECTRICAL 122	CLOSE COUPLED, IN-LINE CENTRIFUGAL	10 GPM	20 FT	100% WATER	50 °F	140 °F	0.33	1800	120 V	1	MANUFACTURER	MANUFACTURER	BELL & GOSSETT / XYLEM	e90, 1AAB	49 lb	1
HHWP-1B	MECHANICAL/ELECTRICAL 122	CLOSE COUPLED, IN-LINE CENTRIFUGAL	10 GPM	25 FT	100% WATER	50 °F	140 °F	0.17	3780	120 V	1	MANUFACTURER	MANUFACTURER	BELL & GOSSETT / XYLEM	ECOCIRC XL 36-45	16 lb	2, 3
HHWP-2A	MECHANICAL/ELECTRICAL 122	CLOSE COUPLED, IN-LINE CENTRIFUGAL	10 GPM	20 FT	100% WATER	50 °F	140 °F	0.33	1800	120 V	1	MANUFACTURER	MANUFACTURER	BELL & GOSSETT / XYLEM	e90, 1AAB	49 lb	1
HHWP-2B	MECHANICAL/ELECTRICAL 122	CLOSE COUPLED, IN-LINE CENTRIFUGAL	10 GPM	25 FT	100% WATER	50 °F	140 °F	0.17	3780	120 V	1	MANUFACTURER	MANUFACTURER	BELL & GOSSETT / XYLEM	ECOCIRC XL 36-45	16 lb	2, 3

EXPANSION TANK SCHEDULE

NOTES:
1. PRE-CHARGED DIAPHRAGM-TYPE, VERTICAL ORIENTATION, 3/4" SYSTEM CONNECTION ON TOP, 3/4" DRAIN PLUG, ASME SECTION VIII RATED, 125-PSIG MWAP.
2. FLUID: WATER.

						MAX. OPER. PRESS.				BASIS OF DESIGN		
UNIT TAG	LOCATION	APPROX. SYSTEM VOLUME	MIN. WATER TEMP.	MAX. WATER TEMP.	PRESS. AT TANK	FOR CALCULATION	RELIEF VALVE	MIN. VOLUME	MIN. ACCEPT. VOLUME	MANUFACTURER	MODEL NO.	NOTES
ET-1	MECHANICAL/ELECTRICAL 122	102 gal	40 °F	140 °F	15 psi	25 psi	30 psi	6.08 gal	1.53 gal	BELL & GOSSETT / XYLEM	D15	SEE ALL

PRIMARY/SECONDARY HEADER SCHEDULE

NOTES:
1. COMBINATION AIR SEPARATOR AND MANIFOLD FOR PRIMARY / SECONDARY CIRCUITS. STEEL CONSTRUCTION. WORKING PRESSURE: 150 PSI.
2. (4) 2" FLANGED SYSTEM CONNECTIONS. AIR VENT CONNECTION ON TOP. DRAIN CONNECTION ON BOTTOM.
3. INCLUDE AUTOMATIC AIR VENT (ON TOP CONNECTION) AND BALL VALVE (ON BOTTOM CONNECTION).

					BASIS OF DESIGN		
UNIT TAG	LOCATION	PIPE SIZE	MAX GPM	WEIGHT (EMPTY)	MANUFACTURER	MODEL NO.	NOTES
PSH-1	MECHANICAL/ELECTRICAL 122	2"	40 GPM	12.6 lb	BELL & GOSSETT / XYLEM	PSH-2	SEE ALL

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMISON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:
M601

5/15/2026 9:46:06 AM Autodesk Docs://250060 - Carmel Fire Station 42846/25-150_Carmel Fire Station 42_MEP2024.rvt

TERMINAL UNIT SCHEDULE

NOTES:
1. INTEGRAL FACTORY CONTROLS WITH PRE-PROGRAMMED SEQUENCES TO CONTROL ALL FUNCTIONS OF TERMINAL UNIT WITHOUT THE NEED FOR A BUILDING AUTOMATION SYSTEM. SEE "VAV TERMINAL UNIT CONTROL DIAGRAM" ON SHEET "ME701 - HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
2. MANUFACTURER TO PROVIDE REMOTE SPACE AIR TEMPERATURE SENSOR. CONTRACTOR TO FIELD INSTALL SENSOR.
3. SEE "HEATING WATER CONTROL VALVE SCHEDULE" THIS SHEET FOR THE ASSOCIATED CONTROL VALVE.

									HOT WATER REHEAT COIL										NC LEVEL AT INLET S.P.	MAXIMUM ROOM NC	CONTROL TYPE	CONTROLLER POWER		BASIS OF DESIGN		
UNIT TAG	SYSTEM SERVED	AREA SERVED	UNIT TYPE	UNIT INLET SIZE	MAXIMUM CFM	MINIMUM CFM	MAXIMUM S.P. AT MAXIMUM CFM	INLET S.P.	EAT	LAT	EWT	LWT	GPM	ROWS	MAXIMUM WATER P.D.	NOMINAL PIPE SIZE	HEATING CFM	HEATING LOAD AT HEATING CFM					WEIGHT	MANUFACTURER	MODEL NO.	NOTES
TB3-01	AHU-3	SECOND FLOOR	DDC	6"	430 CFM	150 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.76 GPM	2	8 ftH2O	3/4"	150 CFM	7,603.88 Btu/h	20	35	DDC	12V	19 lb	PRICE	SDV-06	SEE ALL
TB3-02	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-03	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-04	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-05	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-06	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-07	AHU-3	SECOND FLOOR	DDC	8"	460 CFM	150 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.76 GPM	2	8 ftH2O	3/4"	150 CFM	7,603.88 Btu/h	20	35	DDC	12V	23 lb	PRICE	SDV-08	SEE ALL
TB3-08	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-09	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-10	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-11	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-12	AHU-3	SECOND FLOOR	DDC	8"	490 CFM	160 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.81 GPM	2	8 ftH2O	3/4"	160 CFM	8,110.8 Btu/h	20	35	DDC	12V	23 lb	PRICE	SDV-08	SEE ALL
TB3-13	AHU-3	SECOND FLOOR	DDC	8"	460 CFM	460 CFM	0.25 in-wg	0.75 in-wg	50 °F	85 °F	140 °F	120 °F	1.81 GPM	2	8 ftH2O	3/4"	460 CFM	18,136.65 Btu/h	20	35	DDC	12V	23 lb	PRICE	SDV-08	SEE ALL
TB3-14	AHU-3	SECOND FLOOR	DDC	6"	360 CFM	360 CFM	0.25 in-wg	0.75 in-wg	50 °F	85 °F	140 °F	120 °F	1.42 GPM	2	8 ftH2O	3/4"	360 CFM	14,193.9 Btu/h	20	35	DDC	12V	19 lb	PRICE	SDV-06	SEE ALL

HEATING WATER CONTROL VALVE SCHEDULE

NOTES:
1. CHARACTERIZED BALL VALVE, NICKEL-PLATED BRASS BODY, STAINLESS STEEL BALL AND STEM, PTFE SEAT, EPDM STEM SEAL AND O-RING.
2. PROVIDE VALVE WITH ACTUATOR. ACTUATOR TO INCLUDE SPRING RETURN IN A FAIL OPEN CONFIGURATION (NORMALLY OPEN).

VALVE TAG	ASSOCIATED VAV BOX	VALVE DIAMETER	GPM	DESIGN PRESSURE DROP	CV	VALVE BODY STYLE	FLOW CHARACTERISTIC	CONTROL TYPE	CONTROL VOLTAGE	MANUFACTURER	MODEL NO.	NOTES
V3-01	TB3-01	1/2"	0.76 GPM	5 psi	0.46	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B208 + LFX24-SR US	SEE ALL
V3-02	TB3-02	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-03	TB3-03	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-04	TB3-04	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-05	TB3-05	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-06	TB3-06	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-07	TB3-07	1/2"	0.76 GPM	5 psi	0.46	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B208 + LFX24-SR US	SEE ALL
V3-08	TB3-08	1/2"	0.46 GPM	5 psi	0.3	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B307 + LFX24-SR US	SEE ALL
V3-09	TB3-09	1/2"	0.46 GPM	5 psi	0.3	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B307 + LFX24-SR US	SEE ALL
V3-10	TB3-10	1/2"	0.46 GPM	5 psi	0.3	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B307 + LFX24-SR US	SEE ALL
V3-11	TB3-11	1/2"	0.46 GPM	5 psi	0.3	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B307 + LFX24-SR US	SEE ALL
V3-12	TB3-12	1/2"	0.81 GPM	5 psi	0.46	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B308 + LFX24-SR US	SEE ALL
V3-13	TB3-13	1/2"	1.81 GPM	5 psi	0.8	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B309 + LFX24-SR US	SEE ALL
V3-14	TB3-14	1/2"	1.42 GPM	5 psi	0.8	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B209 + LFX24-SR US	SEE ALL

SUPPLY DIFFUSER SCHEDULE

NOTES:
1. SQUARE PLAQUE DIFFUSER, STEEL, 1/2" FIBERGLASS WITH FOIL/SCRIM VAPOR BARRIER INSULATED BACK PAN, MANUFACTURER'S STANDARD WHITE.
2. BORDER STYLE SHALL MATCH INSTALLATION LOCATION. MAY DIFFER AT EACH INSTANCE. SEE DRAWINGS.

TYPE TAG	NOMINAL SIZE	NOMINAL ROUND NECK SIZE	BRANCH DUCT SIZE TO DIFFUSER	MINIMUM CFM	MAXIMUM CFM	MAX. NC LEVEL	THROW (FT) 150-100-50	MAX. NECK VELOCITY	MAX. VELOCITY PRESSURE	MAX. TOTAL PRESSURE	MANUFACTURER	MODEL NO.	TYPE	NOTES
SDA	24"x24"	6	6	80 CFM	140 CFM	16	3-5-9	700 FPM	0.03 in-wg	0.12 in-wg	PRICE	SPD	PLAQUE	SEE ALL
SDB	24"x24"	8	8	140 CFM	250 CFM	22	5-7-12	700 FPM	0.03 in-wg	0.21 in-wg	PRICE	SPD	PLAQUE	SEE ALL

SUPPLY GRILLE SCHEDULE

NOTES:
1. LOUVERED GRILLE, TWO ROWS OF ADJUSTABLE BLADES, LONG (HORIZONTAL) BLADES FRONT, SHORT (VERTICAL) BLADES BACK, ALUMINUM, MANUFACTURER'S STANDARD WHITE.
2. BORDER STYLE SHALL MATCH INSTALL LOCATION. MAY DIFFER AT EACH INSTANCE. SEE DRAWINGS. COUNTER SUNK SCREWS ON FRAME WHERE INSTALLED ON WALL.

TYPE TAG	NOMINAL FACE SIZE	MIN. CORE AREA	BRANCH DUCT SIZE	MIN. CFM	MAX. CFM	MAX. NC LEVEL	MAX. CORE VELOCITY	MAX. VELOCITY PRESSURE	MAX. TOTAL PRESSURE	MANUFACTURER	MODEL NO.	NOTES
SG	SEE PLANS	SEE PLANS	SEE PLANS							PRICE	620	SEE ALL

RETURN AND EXHAUST GRILLE SCHEDULE

NOTES:
1. EGG CRATE GRILLE, 1/2" x 1/2" ALUMINUM CORE, MANUFACTURER'S STANDARD WHITE.
2. LOUVERED GRILLE, FIXED BLADES ON LONG (HORIZONTAL) DIMENSION, 3/4" BLADE SPACING, 45 DEG BLADE ANGLE, ALUMINUM, MANUFACTURER'S STANDARD WHITE.
3. BORDER STYLE SHALL MATCH INSTALLATION LOCATION. MAY DIFFER AT EACH INSTANCE. SEE DRAWINGS. COUNTER SINK SCREWS ON FRAME WHERE INSTALLED ON WALL.

TYPE TAG	NOMINAL FACE SIZE	MIN. CORE AREA	BRANCH DUCT SIZE	MIN. CFM	MAX. CFM	MAX. NC LEVEL	MAX. CORE VELOCITY	MAX. VELOCITY PRESSURE	MAX. TOTAL PRESSURE	MANUFACTURER	MODEL NO.	NOTES
EGA	12"x12"	0.88 Sq. Ft.	12"x12"		450 CFM	15	550 FPM	0.02 in-wg	0.05 in-wg	PRICE	80	1, 3
RG	SEE PLANS	SEE PLANS	SEE PLANS							PRICE	630	2, 3
RGB	12"x24"	1.80 Sq. Ft.	12"x24"		720 CFM	11	400 FPM	0.01 in-wg	0.02 in-wg	PRICE	80	1, 3

CONSTANT AIRFLOW REGULATOR SCHEDULE

NOTES:
1. PRESSURE INDEPENDENT BALANCING DAMPER THAT AUTOMATICALLY REGULATES TO A CONSTANT AIRFLOW USING ONLY DUCT SYSTEM PRESSURE.
2. AIRFLOW ADJUSTMENT DIAL WITH CFM INDICATOR.
3. LOW PRESSURE RANGE OPTION WITH OPERATION RANGE OF APPROXIMATELY 0.12 TO 1.2 IN WG.

TYPE TAG	UNIT SERVICE	NOMINAL SIZE	MINIMUM CFM	MAXIMUM CFM	MAX. TOTAL PRESSURE	MANUFACTURER	MODEL NO.	NOTES
CR10	VENTILATION AIR	10"	295 CFM	470 CFM	1 in-wg	ALDES	CAR3	SEE ALL

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

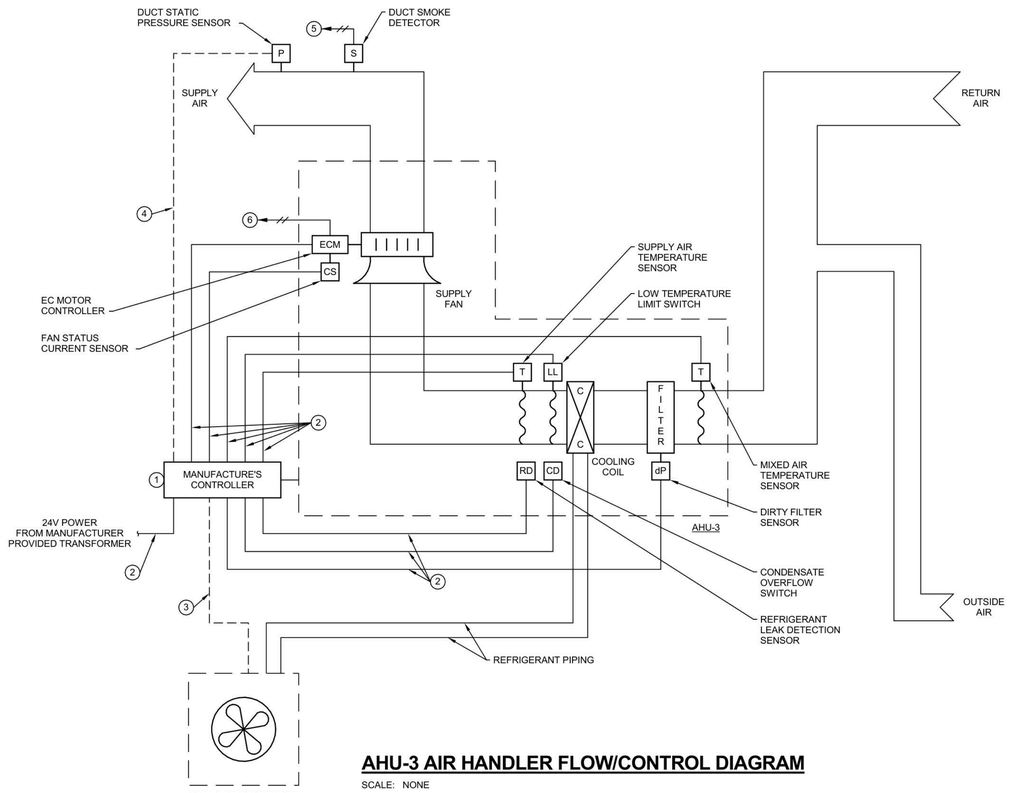
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DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE: MECHANICAL SCHEDULES

SHEET NUMBER: M602

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AHU-3 AIR HANDLER FLOW/CONTROL DIAGRAM

SCALE: NONE

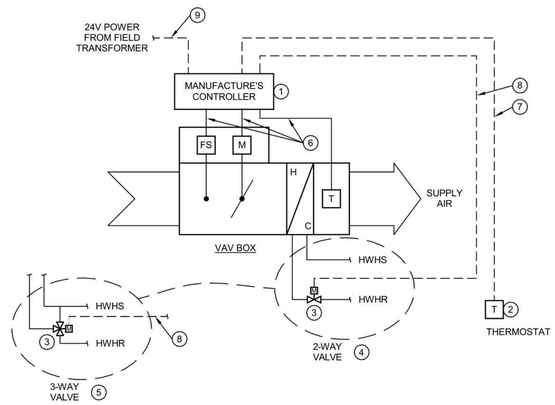
(#) PLAN NOTES:

1. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY AIR HANDLER MANUFACTURER.
2. CONTROL WIRING FURNISHED AND INSTALLED BY FACTORY.
3. CONTROL WIRING FROM AIR HANDLER CONTROLLER TO OUTDOOR CONDENSER AND COMPRESSOR. WIRING BY ELECTRICAL CONTRACTOR.
4. 2-WIRE CONTROL WIRING FROM ANALOG INPUT FOR DUCT STATIC PRESSURE. SENSOR FURNISHED BY MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR.
5. DUCT SMOKE DETECTOR INTERLOCKED WITH THE FIRE ALARM SYSTEM.
6. FAN DISCONNECT INTERLOCKED WITH THE FIRE ALARM SYSTEM. UPON DETECTION OF SMOKE AT DUCT SMOKE DETECTOR, POWER TO FAN SHALL BE DISCONNECTED.

SEQUENCE OF OPERATIONS

1. GENERAL:
   - A. AIR HANDLER CONTROLLED BY PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY MANUFACTURER. CONTROLLER SHALL BE CAPABLE OF INDEPENDENT OPERATION WITHOUT INPUT FROM A CENTRAL BUILDING AUTOMATION SYSTEM.
   - B. THE BUILDING WILL NOT HAVE A CENTRAL BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL FULLY CONTROL THE AIR HANDLER SYSTEM, INCLUDING THE SEQUENCE DESCRIBED BELOW UNDER THE HEADING "PRE-PROGRAMMED AIR HANDLER SEQUENCE."
   - C. AIR HANDLER MANUFACTURER SHALL ASSIST WITH CONTROLS START-UP, INCLUDING VERIFICATION OF SEQUENCE, COORDINATION WITH TEST AND BALANCE CONTRACTOR, AND MODIFICATION OF AIRFLOW, TEMPERATURE, AND PRESSURE SETPOINTS WITHIN CONTROLLER.

2. PRE-PROGRAMMED AIR HANDLER SEQUENCE :
   - A. THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE FAN SPEED SHALL MODULATE TO MAINTAIN DUCT STATIC PRESSURE.
   - B. THE DX COOLING SYSTEM SHALL CYCLE BETWEEN COOLING STAGES TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 55F. WHEN THE OUTSIDE AIR TEMPERATURE IS 50F OR LESS, COOLING SHALL BE DISABLED.
   - C. SAFETIES AND ALARMS:
     - C.A. WHEN THE LOW LIMIT TEMPERATURE SWITCH DETECTS A SUPPLY AIR TEMPERATURE BELOW 34F, STOP THE SUPPLY AIR FAN, DISABLE THE DX COOLING SYSTEM, AND ALARM AT THE AIR HANDLER CONTROLLER.
     - C.B. WHEN THE CONDENSATE OVERFLOW SWITCH DETECTS HIGH LEVEL, DISABLE THE DX COOLING SYSTEM AND ALARM AT THE AIR HANDLER CONTROLLER.
     - C.C. WHEN THE SUPPLY AIR FAN STATUS SWITCH (CURRENT SENSOR) DETECTS A FAILURE, STOP THE SUPPLY AIR FAN, DISABLE THE DX COOLING SYSTEM, AND ALARM AT THE AIR HANDLER CONTROLLER.
     - C.D. WHEN THE DIRTY FILTER SWITCH DETECTS A HIGH PRESSURE DROP, ALARM AT THE AIR HANDLER CONTROLLER. THE SYSTEM MAY CONTINUE TO OPERATE.
     - C.E. WHEN THE REFRIGERANT LEAK DETECTION SENSOR DETECTS HIGH REFRIGERANT STOP THE SUPPLY AIR FAN, DISABLE THE DX COOLING SYSTEM, AND ALARM AT THE AIR HANDLER CONTROLLER.
   - D. TEST AND BALANCE CONTRACTOR TO DETERMINE THE SUPPLY STATIC PRESSURE SETPOINT.
   - E. MANUFACTURER'S START-UP REPRESENTATIVE TO SET-UP THE PRE-PROGRAMMED AIR HANDLER CONTROLLER, AND CONFIGURE ALL SETPOINTS WITHIN THE CONTROLLER, INCLUDING BUT NOT LIMITED TO THE SUPPLY STATIC PRESSURE SETPOINT IDENTIFIED BY THE TEST AND BALANCE CONTRACTOR.



VAV TERMINAL UNIT CONTROL DIAGRAM

SCALE: NONE

(#) PLAN NOTES:

1. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY VAV BOX MANUFACTURER.
2. THERMOSTAT WITH ROTATING DIAL. THERMOSTAT SHALL NOT EMIT LIGHT AND SHALL NOT BE BACK LIT. BASIS OF DESIGN: PRICE, MODEL: 250051-100.
3. CONTROL VALVE FURNISHED AND PIPED BY MECHANICAL CONTRACTOR.
4. DIAGRAM FOR 2-WAY CONTROL VALVE.
5. DIAGRAM FOR 3-WAY CONTROL VALVE.
6. CONTROL WIRING FURNISHED AND INSTALLED BY FACTORY.
7. CAT5 CABLE FROM THERMOSTAT JACK. WIRING BY ELECTRICAL CONTRACTOR.
8. 3-WIRE CONTROL WIRING FROM BINARY OUTPUT FOR TRI-STATE REHEAT VALVE POSITION. WIRING BY ELECTRICAL CONTRACTOR.
9. 2-WIRE CONTROL WIRING TO POWER FOR CONTROLLER. WIRING BY ELECTRICAL CONTRACTOR.

SEQUENCE OF OPERATIONS

1. GENERAL:
   - A. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY VAV BOX MANUFACTURER. TERMINAL UNIT SHALL INCLUDE FACTORY WIRED AIRFLOW SENSOR, DAMPER ACTUATOR, AND DISCHARGE TEMPERATURE SENSOR. CONTROLLER SHALL BE CAPABLE OF INDEPENDENT OPERATION WITHOUT INPUT FROM A CENTRAL BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL FULLY CONTROL THE VAV BOX, INCLUDING THE SEQUENCE DESCRIBED BELOW UNDER THE HEADING "PRE-PROGRAMMED VAV BOX SEQUENCE."
   - B. VAV BOX CONTROLLER BASIS OF DESIGN: PRICE, PIC-SD WITH CONTROL SEQUENCE NUMBER 1815.
   - C. THE BUILDING WILL NOT HAVE A CENTRAL BUILDING AUTOMATION SYSTEM.
   - D. MANUFACTURER SHALL ASSIST WITH CONTROLS START-UP, INCLUDING VERIFICATION OF SEQUENCE, COORDINATION WITH TEST AND BALANCE CONTRACTOR, AND MODIFICATION OF AIRFLOW SETPOINTS WITHIN THE CONTROLLER.
   - E. THE MAXIMUM AND MINIMUM AIRFLOW SHALL BE SET TO THE AIRFLOWS INDICATED ON SHEET "M602," "VAV BOX SCHEDULE.
   - F. FOR INFORMATION REGARDING THE HEATING WATER VALVES, SEE SHEET "M602, "HEATING WATER CONTROL VALVE SCHEDULE."

2. PRE-PROGRAMMED VAV BOX SEQUENCE :
   - A. SYSTEM WILL OPERATE AT ALL TIMES WITH COOL SUPPLY AIR.
   - B. ON AN INCREASE IN SPACE TEMPERATURE THE CONTROLLER REGULATES THE ACTUATOR TO OPEN THE VAV DAMPER AND INCREASE THE FLOW OF COOL AIR. ON AN INCREASE OF SPACE TEMPERATURE GREATER THAN THE COOLING PROPORTIONAL BAND, THE AIRFLOW IS MAINTAINED AT ITS PRE-SELECTED MAXIMUM SETTING.
   - C. ON A DECREASE IN SPACE TEMPERATURE THE CONTROLLER REGULATES THE ACTUATOR TO CLOSE THE VAV DAMPER AND REDUCE THE FLOW OF COOL AIR. IF THE SPACE TEMPERATURE DECREASES TO LESS THAN THE COOLING PROPORTIONAL BAND, THE AIRFLOW IS MAINTAINED AT THE PRE-SELECTED MINIMUM SETTING.
   - D. ON A DECREASE IN SPACE TEMPERATURE, THE HEATING VALVE IS MODULATED TO INCREASE HEAT PROPORTIONALLY TO THE ROOM DEMAND.

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

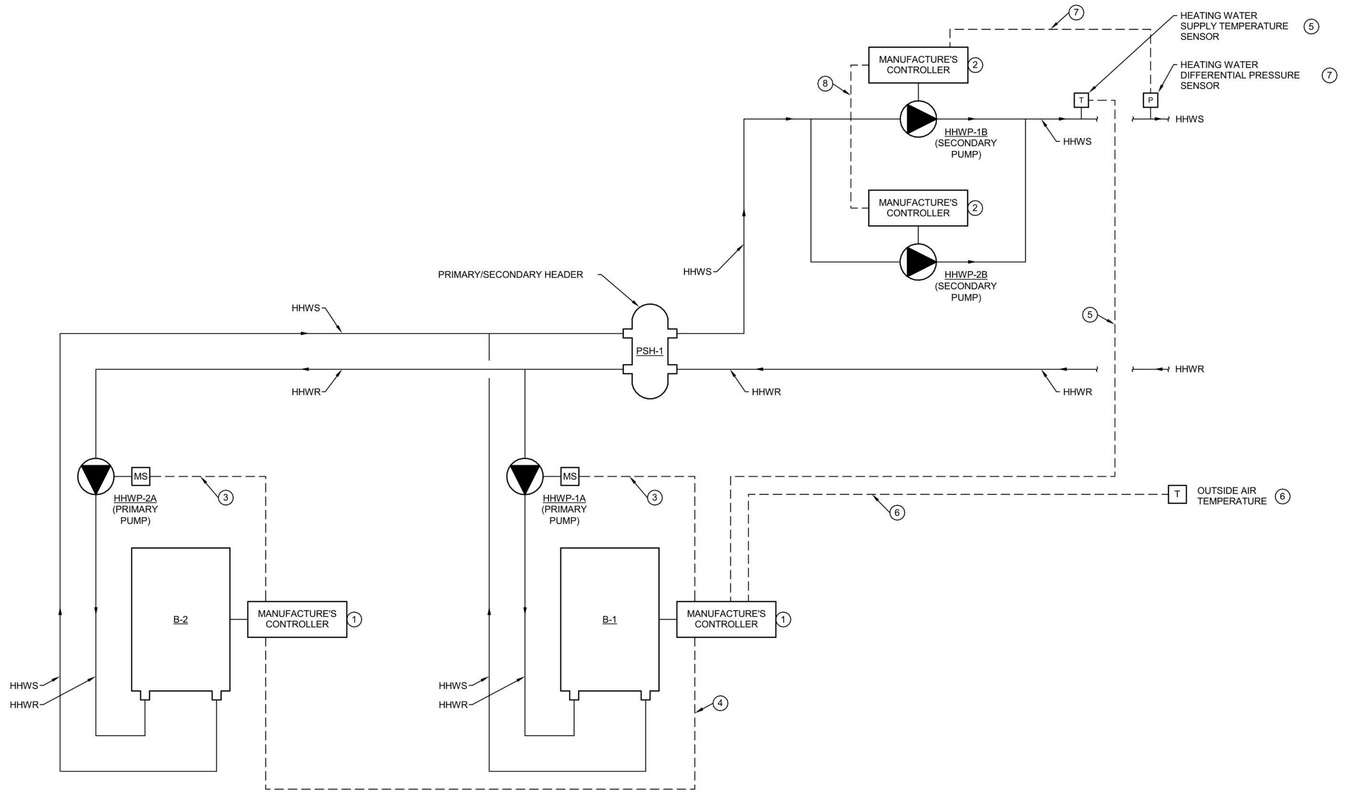
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DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE:
HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES

SHEET NUMBER:
ME701

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HEATING HOT WATER SCHEMATIC & CONTROLS DIAGRAM

SCALE: NONE

(#) PLAN NOTES:

1. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY BOILER MANUFACTURER.
2. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY PUMP MANUFACTURER.
3. 120V WIRING FROM BOILER CONTROLLER TO BOILER PUMP (PRIMARY PUMP). WIRING BY ELECTRICAL CONTRACTOR.
4. CAT5 CABLE FOR COMMUNICATION BETWEEN BOILERS. WIRING BY ELECTRICAL CONTRACTOR.
5. 2-WIRE CONTROL WIRING FROM ANALOG INPUT FOR SYSTEM HEATING WATER SUPPLY TEMPERATURE. SENSOR FURNISHED BY MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR.
6. 2-WIRE CONTROL WIRING FROM ANALOG INPUT FOR OUTSIDE AIR TEMPERATURE. SENSOR FURNISHED BY MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR.
7. 2-WIRE CONTROL WIRING FROM PUMP CONTROLLER TO HEATING WATER DIFFERENTIAL PRESSURE SENSOR. DIFFERENTIAL PRESSURE SENSOR SIGNAL SHALL BE 4-20 mA. SENSOR FURNISHED BY PUMP MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR.
8. RS-485 WIRING BETWEEN THE TWO SECONDARY PUMP CONTROLLERS. WIRING BY ELECTRICAL CONTRACTOR.

SEQUENCE OF OPERATIONS

1. GENERAL:
   - A. BOILERS CONTROLLED BY PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY BOILER MANUFACTURER. CONTROLLER SHALL BE CAPABLE OF INDEPENDENT OPERATION WITHOUT INPUT FROM A CENTRAL BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL FULLY CONTROL THE HEATING WATER SYSTEM, INCLUDING THE SEQUENCE DESCRIBED BELOW UNDER THE HEADING "PRE-PROGRAMMED BOILER SEQUENCE."
   - B. SECONDARY PUMPS CONTROLLED BY PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY PUMP MANUFACTURER. CONTROLLER SHALL BE CAPABLE OF INDEPENDENT OPERATION WITHOUT INPUT FROM A CENTRAL BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL FULLY CONTROL THE SECONDARY PUMPS, INCLUDING THE SEQUENCE DESCRIBED BELOW UNDER THE HEADING "PRE-PROGRAMMED SECONDARY PUMPS SEQUENCE."
   - C. THE BUILDING WILL NOT HAVE A CENTRAL BUILDING AUTOMATION SYSTEM.
   - D. BOILER AND SECONDARY PUMP MANUFACTURERS SHALL ASSIST WITH CONTROLS START-UP, INCLUDING VERIFICATION OF SEQUENCE, COORDINATION WITH TEST AND BALANCE CONTRACTOR, AND MODIFICATION OF TEMPERATURE AND PRESSURE SETPOINTS WITHIN EACH CONTROLLER.

2. PRE-PROGRAMMED BOILER SEQUENCE :
   - A. SET THE BOILER CONTROLLER TO OPERATE IN A LEAD-LAG CONFIGURATION. ONE BOILER WILL OPERATE AT A TIME. AFTER 30 DAYS THE LEAD AND LAG BOILER SHALL SWITCH SO THAT THE ACTIVE BOILER DEACTIVATES AND THE INACTIVE BOILER ACTIVATES.
   - B. ON A CALL FOR SYSTEM HEATING, THE LEAD BOILER PUMP SHALL ACTIVATE. ONCE FLOW THROUGH THE LEAD BOILER IS CONFIRMED WITH INTERNAL BOILER FLOW SWITCH, THE BOILER SHALL FIRE THROUGH MANUFACTURER'S SEQUENCE TO MAINTAIN THE THE HEATING WATER SUPPLY TEMPERATURE SET POINT AS MEASURED AT THE REMOTE SUPPLY TEMPERATURE SENSOR IN THE SECONDARY LOOP.
   - C. THE SUPPLY TEMPERATURE SET POINT SHALL BE RESET BASED ON OUTSIDE AIR TEMPERATURE PER THE SCHEDULE BELOW:
     - C.A. AT AN OUTSIDE AIR TEMPERATURE OF 50F OR GREATER, THE SUPPLY TEMPERATURE SHALL BE 110F.
     - C.B. BETWEEN AN OUTSIDE AIR TEMPERATURE OF 50F AND OF THE SUPPLY TEMPERATURE SHALL RAMP LINEARLY BETWEEN 110F AND 140F.
     - C.C. AT AN OUTSIDE AIR TEMPERATURE OF 0F OR LESS, THE SUPPLY TEMPERATURE SHALL BE 140F.
   - D. SAFETIES AND ALARMS: ALL MANUFACTURER SAFETIES AND ALARMS SHALL REMAIN OPERATIONAL.
   - E. NOTE: THE SECONDARY PUMPS WILL OPERATE INDEPENDENT OF THE BOILER CONTROLLER.

3. PRE-PROGRAMMED SECONDARY PUMPS SEQUENCE :
   - A. SET THE SECONDARY PUMP CONTROLLER TO "CONSTANT PRESSURE" OPERATION.
     - A.A. IN THIS CONFIGURATION THE PUMP SHALL MAINTAIN A CONSTANT DIFFERENTIAL PRESSURE WHILE SYSTEM FLOW RATE CHANGES BY MODULATING THE PUMP SPEED.
   - B. SET THE SECONDARY PUMPS CONTROLLERS TO THE "TWO PUMP CONTROL" MODE WITH "ALTERNATING OPERATION."
     - B.A. IN THIS CONFIGURATION ONE PUMP WILL OPERATE AT A TIME. THE OPERATING PUMP SHALL BE CALLED THE LEAD PUMP AND THE INACTIVE PUMP SHALL BE CALLED THE LAG PUMP.
     - B.B. AFTER 30 DAYS (OR THE MANUFACTURER'S AVAILABLE SWITCHING PERIOD) THE LEAD AND LAG PUMP SHALL SWITCH SO THAT THE ACTIVE PUMP DEACTIVATES AND THE INACTIVE PUMP ACTIVATES.
     - B.C. IF THE LEAD PUMP FAILS, THE LAG PUMP SHALL ACTIVATE. AN ALARM SHALL BE GENERATED WITHIN THE PUMP CONTROLLER.
   - C. TEST AND BALANCE CONTRACTOR TO DETERMINE THE SYSTEM DIFFERENTIAL PRESSURE SETPOINT.
   - D. MANUFACTURER'S START-UP REPRESENTATIVE TO SET-UP THE PRE-PROGRAMMED PUMP CONTROLLER AND INPUT THE DIFFERENTIAL PRESSURE SETPOINT IDENTIFIED BY THE TEST AND BALANCE CONTRACTOR.
   - E. NOTE: THE SECONDARY PUMPS ARE INTENDED TO OPERATE CONTINUOUSLY, INDEPENDENT OF THE BOILER CONTROLLER.

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PROFESSIONAL SEAL:



PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE:
HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES

SHEET NUMBER:
ME702

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NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS NOT NECESSARILY USED ON THIS PROJECT.

GENERAL SYMBOLS:

- POINT OF CONNECTION
- POINT OF REMOVAL
- PLAN NOTE
- DEMOLITION NOTE
- REVISION
- DETAIL BUBBLE
- SECTION BUBBLE

VALVES & FITTINGS:

- GATE VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- CONTROL VALVE
- PRESSURE RELIEF, ANGLE TYPE VALVE
- REDUCED PRESSURE BACK FLOW PREVENTER
- INDICATED FLOW DIRECTION
- PIPE TURN 90°
- LINE BREAK
- PIPE ELBOW UP (RISE)
- PIPE ELBOW DOWN (DROP)
- PIPE TEE DOWN
- CAP OR PLUG
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC
- FLANGES
- UNION
- METER
- FD FLOOR DRAIN
- CO FLOOR CLEANOUT
- GAUGE
- THERMOMETER
- STEAM TRAP
- PRESSURE SENSOR
- INLINE PUMP
- WATER HAMMER ARRESTOR

PIPING DESIGNATIONS:

- NEW
- EXISTING TO REMAIN
- DEMOLITION
- FUTURE
- PIPE SLOPES IN DIRECTION OF ARROW
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- 140°F DOMESTIC HOT WATER 140°F
- 140°F DOMESTIC HOT WATER 140°F RETURN
- W WASTE PIPING
- ST STORM PIPING
- V SANITARY VENT
- D INDIRECT DRAIN
- AW ACID WASTE
- AV ACID VENT
- DI DEIONIZED WATER
- RODI REVERSE OSMOSIS DEIONIZED WATER
- LS LAWN SPRINKLER
- G GAS
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- FOV FUEL OIL VENT
- VAC VACUUM
- CA COMPRESSED AIR

PLUMBING ABBREVIATIONS:

AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AV	ACID VENT
AW	ACID WASTE
BDD	BACK DRAFT DAMPER
BF	BOTTLE FILLER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
℄	CENTERLINE
CO	CLEANOUT
CS	CUP SINK
CSS	CLINIC SERVICE SINK
CW	DOMESTIC COLD WATER
D	CONDENSATE/DRAIN
DB	DRY BULB
DCV	DOUBLE CHECK VALVE
DIA	DIAMETER
DN	DOWN
DWH	DOMESTIC WATER HEATER
ESEW	EMERGENCY SHOWER AND FACE/EYE WASH
EW	EMERGENCY EYE/FACE WASH
EWC	ELECTRIC WATER COOLER
EL	ELEVATION
ES	EMERGENCY SHOWER
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
HKSP	HOUSEKEEPING
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HWCP	HOT WATER RECIRCULATION PUMP
IE	INVERT ELEVATION
JS	JANITOR SINK
L	LAVATORY
MB	MOP BASIN
MFG	MANUFACTURER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
PH	PHASE
PIV	POST INDICATING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RO	REVERSE OSMOSIS
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SAN	SANITARY
SCW	DOMESTIC SOFT COLD WATER
SH	SHOWER
SI	SEDIMENT INTERCEPTOR
S	SINK
SS	STAINLESS STEEL
ST	STORM WATER
TD	TRENCH DRAIN
UR	URINAL
V	SANITARY VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

GENERAL NOTES:

A. VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BIDDING AND BEFORE BEGINNING WORK.
B. REVIEW THE WORK OF OTHER TRADES, COORDINATE AND PLAN WORK WITH THE OTHER TRADES AND OWNER. ADJUST AS A RESULT OF COORDINATION.
C. STORE EQUIPMENT AND COMPONENTS IN A CLEAN, DRY LOCATION UNTIL READY FOR INSTALLATION. PROTECT FROM WEATHER, DIRT, WATER, AND CONSTRUCTION DEBRIS, ETC. AT ALL TIMES. ANY DAMAGED EQUIPMENT OR COMPONENTS SHALL BE RESTORED AS NEW OR REPLACED.
D. ALL MATERIALS REMOVED AND NOT RELOCATED BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE MATERIALS FROM THE PROJECT SITE UNLESS NOTED OTHERWISE.
E. PATCH WALLS, FLOORS, CEILINGS, COLUMNS, ROOF PENETRATIONS, ETC. WHERE ITEMS ARE REMOVED TO MATCH ADJACENT SURFACES.
F. DRAWINGS SHOW THE INTENDED ARRANGEMENT AND ROUTING OF ALL PIPING, EQUIPMENT, AND APPURTENANCES. THEY SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT.
G. CLEAN ALL EQUIPMENT TO PRESENT A "LIKE NEW" CONDITION AT PROJECT COMPLETION.
H. OFFSET PIPING AROUND ELECTRICAL PANELS TO PROVIDE CLEARANCES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
I. SLOPE 2-1/2" AND SMALLER HORIZONTAL WASTE PIPE AT 1/4" PER FOOT. SLOPE 3" UP TO 6" HORIZONTAL WASTE PIPE AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE:
PLUMBING SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:
P001

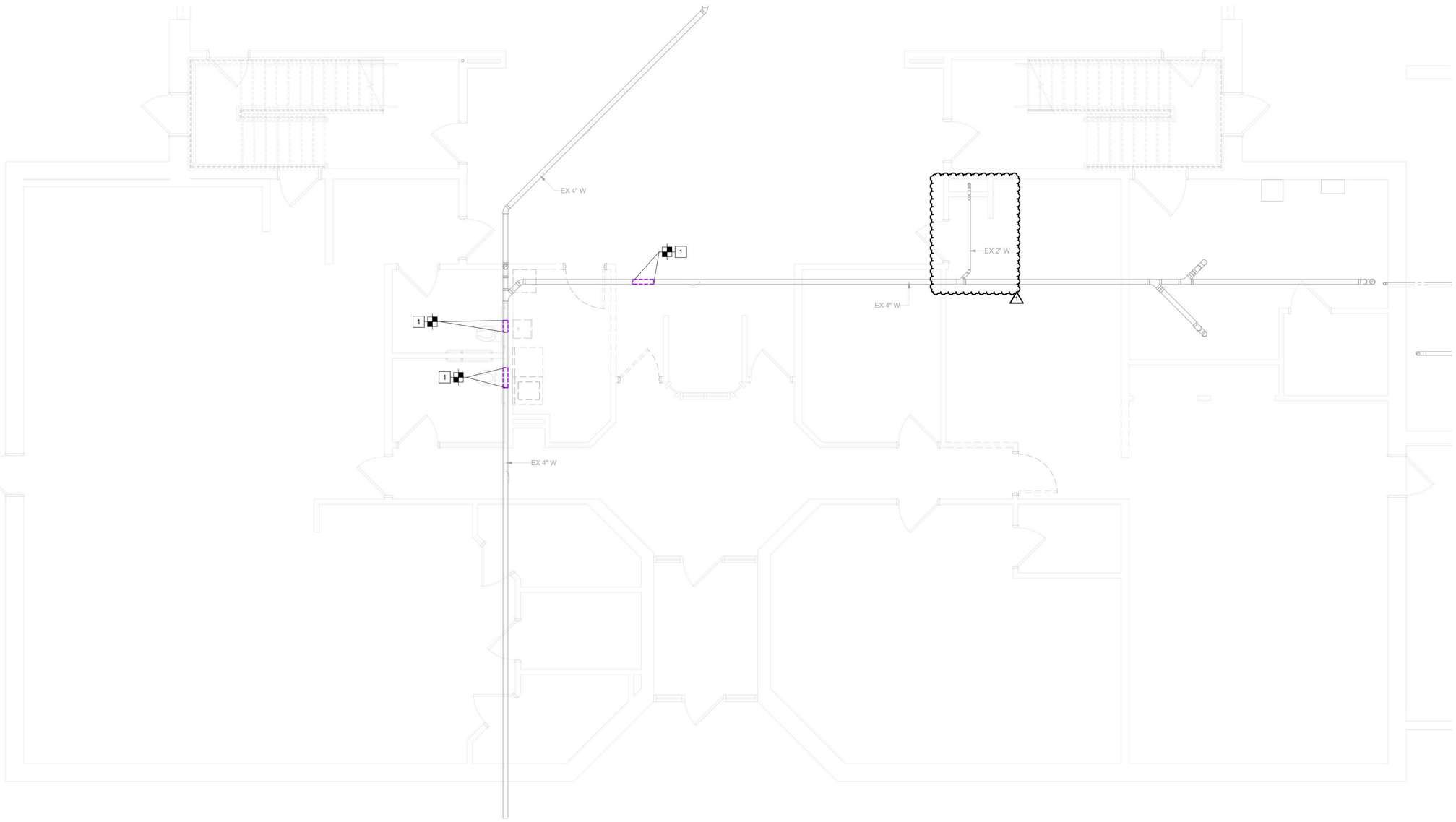
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DEMOLITION NOTES:

1. DEMOLISH EXISTING WASTE PIPING AND PREPARE CONNECTION FOR NEW DRAIN PIPING.

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.
B. THE PLUMBING CONTRACTOR SHALL SCOPE ALL PLUMBING LINES PRIOR TO BREAKING GROUND AND CUTTING FLOORS TO CONFIRM EXACT LOCATIONS OF ALL PLUMBING PIPES BELOW SLAB. THE CONTRACTOR SHALL ASSUME THAT THE LOCATIONS OF THE EXISTING PLUMBING SHOWN OR INDICATED ON THE DRAWINGS IS WITHIN 6-8' OF THE ACTUAL LOCATION SHOWN, FOR BIDDING PURPOSES. VERIFICATION BY THE PC AND AS PART OF THE PC SCOPE, VIA CAMERAS, AND SCOPING FOR THE EXISTING. ANY PLUMBING FOUND TO BE FURTHER, SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING OR BREAKING GROUND / CONCRETE FOR REVIEW. ALL CAMERA SESSIONS SHALL BE RECORDED AND COPIES GIVEN TO THE ARCHITECT.



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

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MICHAEL DAVID JAMESON
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No. PE11500004
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PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE: UNDERSLAB PLUMBING DEMOLITION FLOOR PLAN

SHEET NUMBER: P100

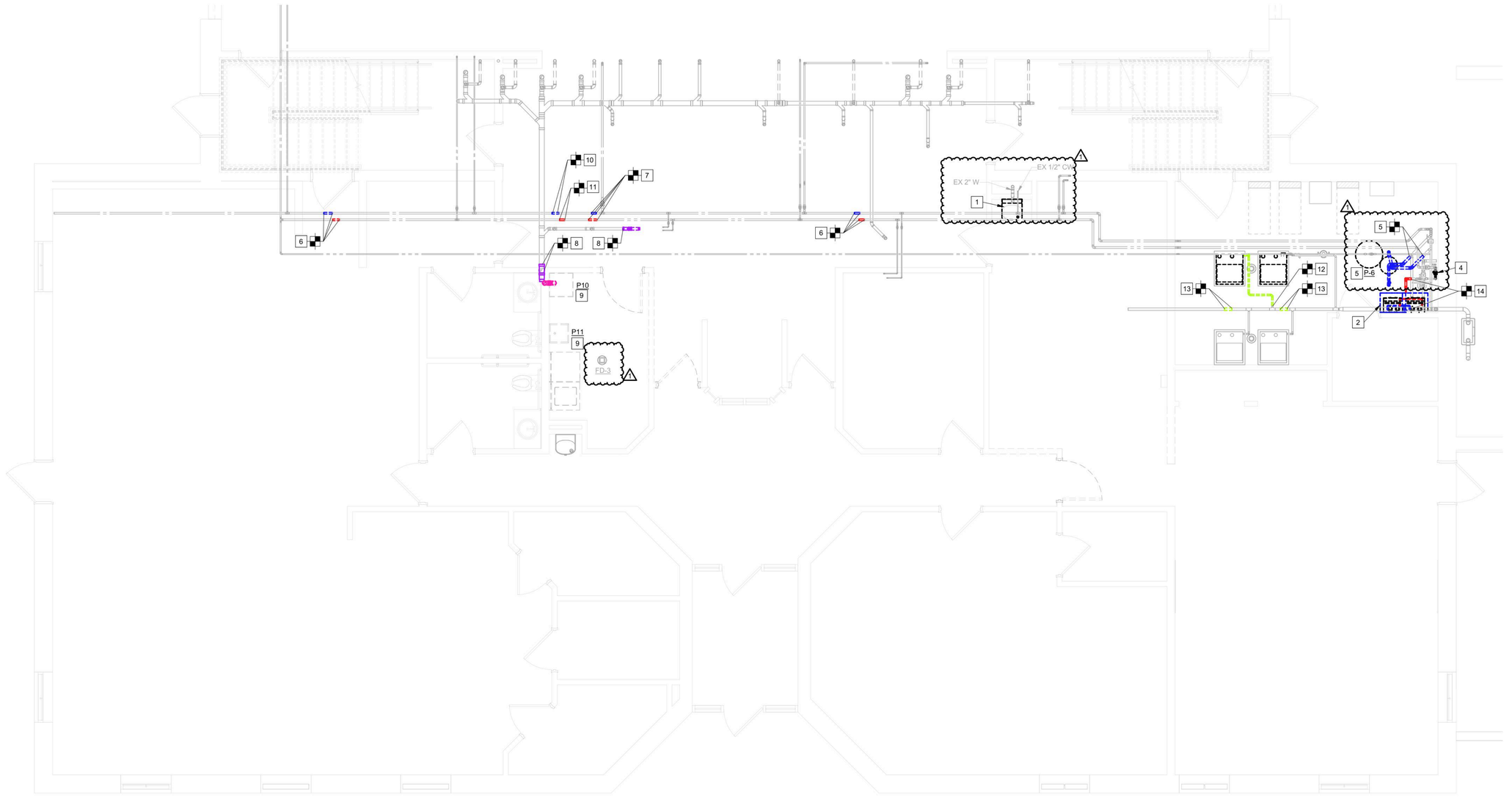
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DEMOLITION NOTES:

1. DEMOLISH EXISTING WATER BOTTLE FILLING STATION AND PREPARE CONNECTION FOR NEW FIXTURE.
2. DEMOLISH DOMESTIC WATER HEATERS COMPLETE AND PREPARE EXISTING PIPES FOR CONNECTIONS TO NEW WATER HEATER.
3. NOT USED.
4. DEMOLISH THERMOSTATIC MIXING VALVE.
5. DEMOLISH WATER SOFTENER TANKS AND PIPING FOR SINGLE TANK SYSTEM. PREPARE PIPING CONNECTIONS FOR TWO TANK CONFIGURATION.
6. DEMOLISH EXISTING CW/HW PIPING AND PREPARE CONNECTIONS FOR NEW RISER TO SECOND FLOOR.
7. DEMOLISH EXISTING CW/HW PIPING AND PREPARE FOR NEW BRANCH CONNECTIONS.
8. DEMOLISH EXISTING WASTE PIPING AND PREPARE CONNECTION FOR NEW DRAIN PIPING.
9. DEMOLISH FIXTURES AND PIPING BACK TO MAIN WATER LINES. CONTRACTOR SHALL VERIFY BRANCH CONNECTION TO MAIN WATER LINES IN FIELD.
10. PREPARE EXISTING CW BRANCH CONNECTION FOR USE FOR NEW 1" CW BRANCH.
11. PREPARE EXISTING HW BRANCH CONNECTION FOR NEW 1" HW BRANCH.
12. DEMOLISH NATURAL GAS PIPING TO TWO EXISTING AIR HANDLERS TO BE REMOVED. CAP PIPING AT TEE.
13. REMOVE SEGMENT OF NATURAL GAS PIPING AND PREPARE FOR INSTALLATION OF NEW TEE AND BRANCH PIPING. SEE NEW PLAN FOR ADDITIONAL INFORMATION.
14. REMOVE DOMESTIC COLD WATER AND HOT WATER FROM EXISTING INSTANTANEOUS WATER HEATERS TO THE POINT INDICATED. PREPARE EXISTING ENDS FOR CONNECTION TO NEW PIPING.

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.
B. THE PLUMBING CONTRACTOR SHALL SCOPE ALL PLUMBING LINES PRIOR TO BREAKING GROUND AND CUTTING FLOORS TO CONFIRM EXACT LOCATIONS OF ALL PLUMBING PIPES BELOW SLAB. THE CONTRACTOR SHALL ASSUME THAT THE LOCATIONS OF THE EXISTING PLUMBING SHOWN OR INDICATED ON THE DRAWINGS IS WITHIN 6-8' OF THE ACTUAL LOCATION SHOWN, FOR BIDDING PURPOSES. VERIFICATION BY THE PC AND AS PART OF THE PC SCOPE, VIA CAMERAS, AND SCOPING FOR THE EXISTING. ANY PLUMBING FOUND TO BE FURTHER, SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING OR BREAKING GROUND / CONCRETE FOR REVIEW. ALL CAMERA SESSIONS SHALL BE RECORDED AND COPIES GIVEN TO THE ARCHITECT.



FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

Etica GROUP
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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE:
FIRST FLOOR PLUMBING DEMOLITION FLOOR PLAN

SHEET NUMBER:
P101

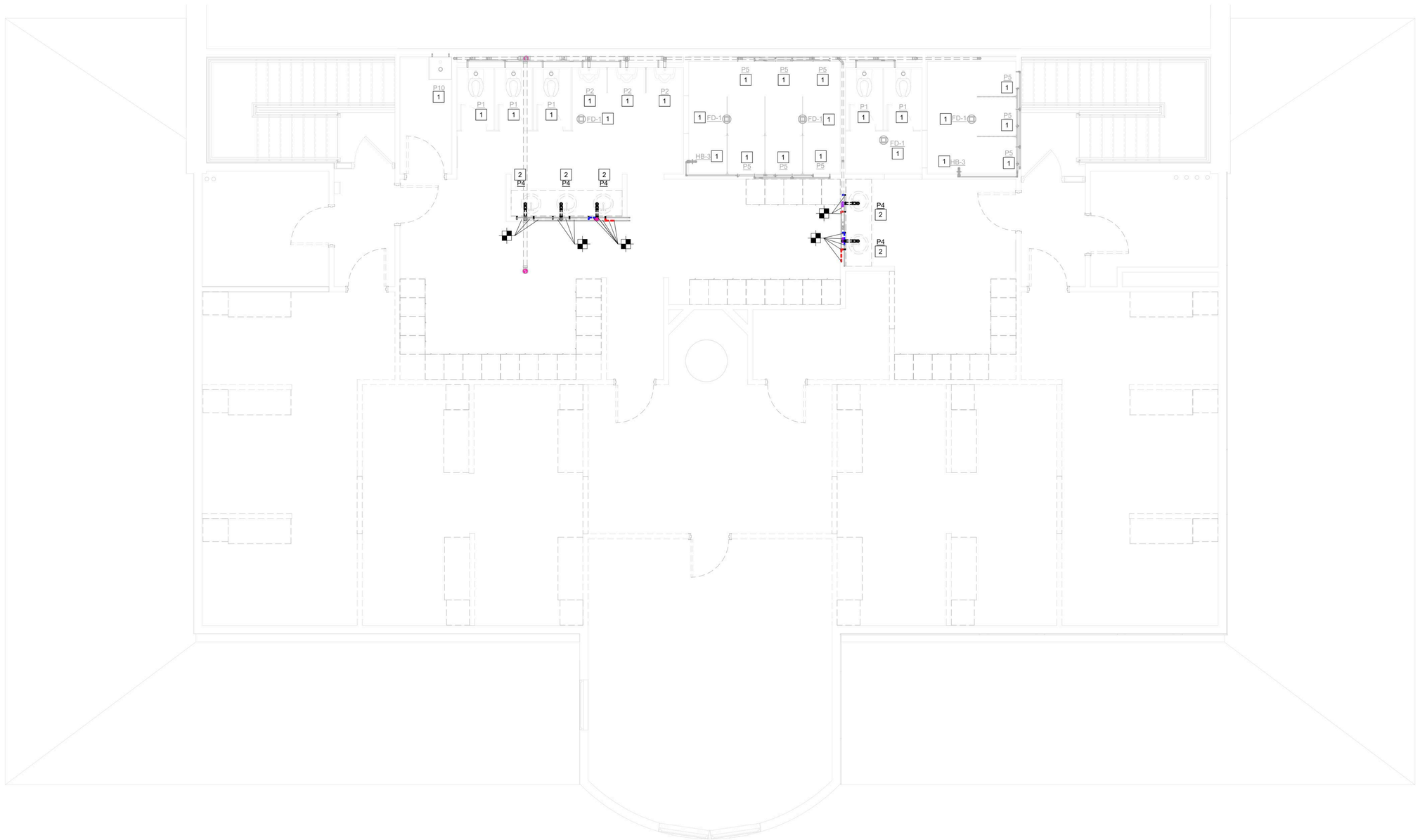
8/14/2026 9:55:07 AM Autodesk Docs://250060 - Carmel Fire Station 42&46/25-150_Carmel Fire Station 42_MEP2024.rvt

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.

DEMOLITION NOTES:

1. FIXTURE IS EXISTING TO REMAIN.
2. DEMOLISH EXISTING LAVATORIES AND PREPARE CONNECTION FOR NEW FIXTURE.



SECOND FLOOR PLUMBING DEMOLITION PLAN

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

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMISON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:

25-150

REVISION SCHEDULE

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05/15/26	MDJ	TMA

DRAWING TITLE:

SECOND FLOOR PLUMBING DEMOLITION FLOOR PLAN

SHEET NUMBER:

P111

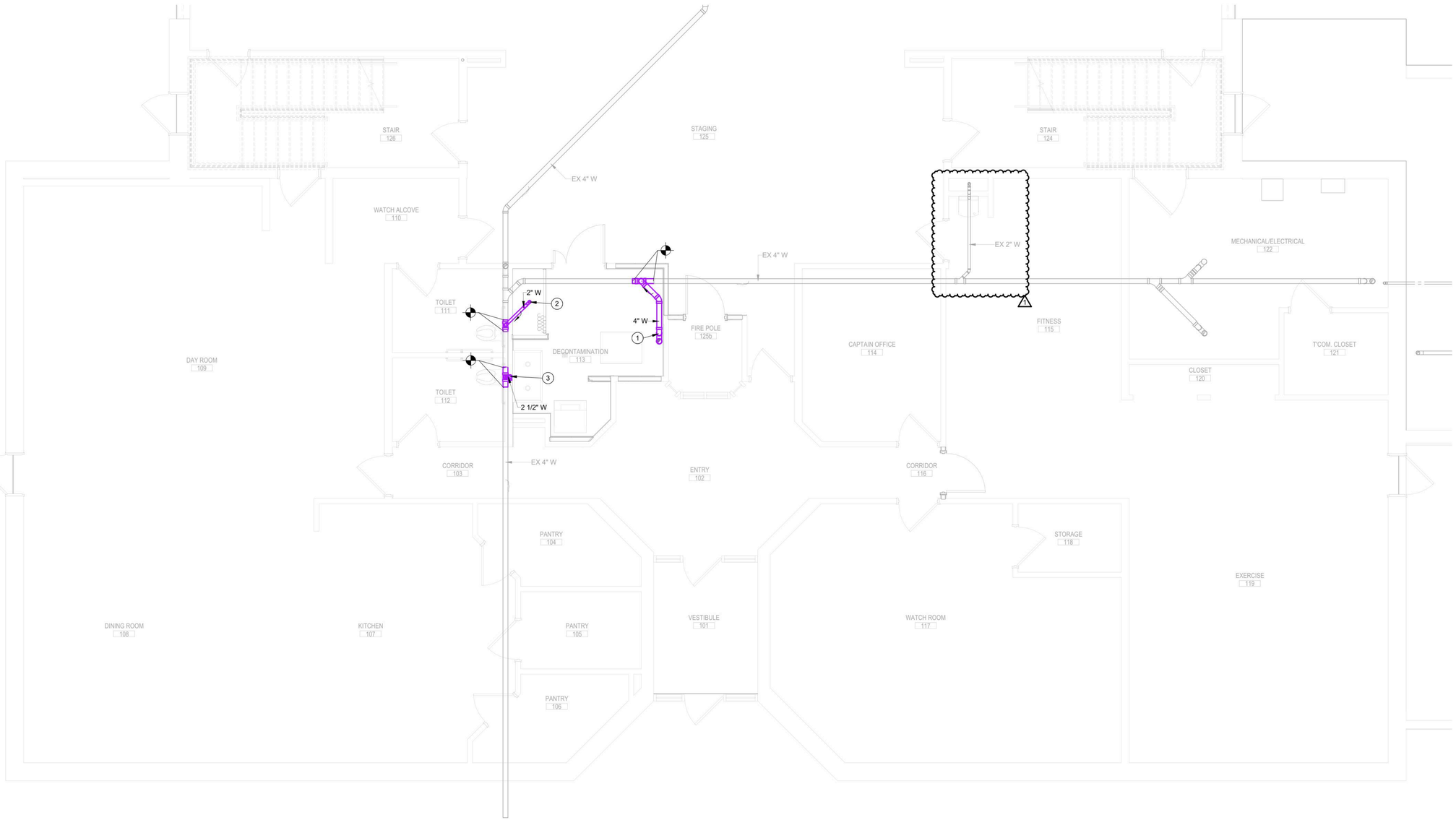
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GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.

(#) PLAN NOTES:

1. 4" W WITH P-TRAP UP. SLOPE NEW 4" AT 1/4" PER FOOT.
2. 2" W WITH P-TRAP UP TO FLOOR DRAIN.
3. 2" W UP.



FOUNDATION PLUMBING PLAN

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

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:

25-150

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DRAWING TITLE:

UNDERSLAB PLUMBING FLOOR PLAN

SHEET NUMBER:

P300

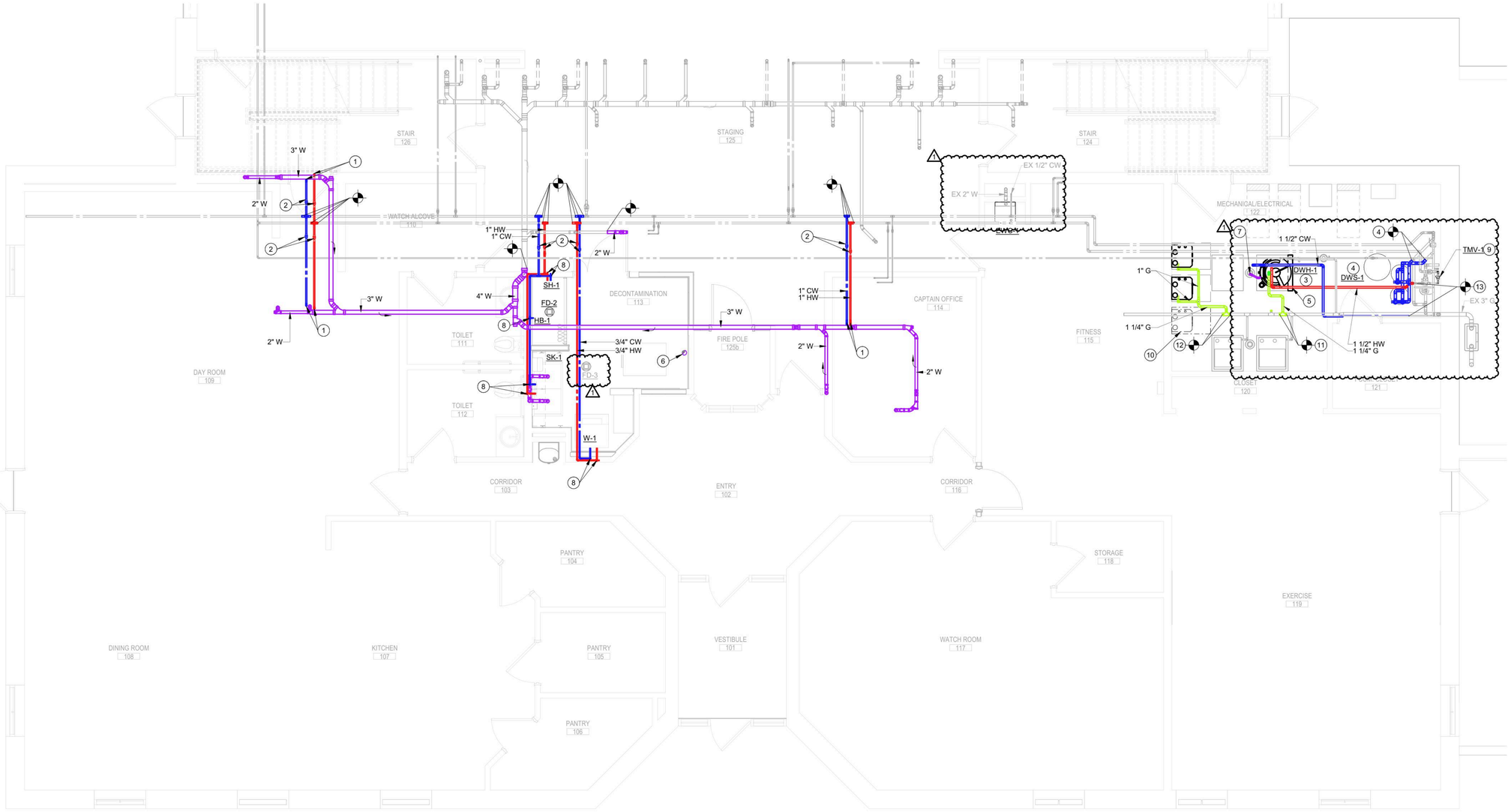
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(#) PLAN NOTES:

1. PROVIDE 1" DOMESTIC HW AND CW RISERS TO SERVE SECOND FLOOR FIXTURES. CONNECT RISERS TO EXISTING DOMESTIC WATER LOOP ON FIRST FLOOR. SEE SHEET P311 FOR CONTINUATION.
2. PROVIDE SHUT-OFF VALVES TO EACH BRANCH CONNECTION TO MAIN DOMESTIC HW/CW LINE. VALVE SIZE SHALL MATCH BRANCH PIPE SIZE. FIELD VERIFY CEILINGS PROVIDE ACCESS TO EACH VALVE.
3. PROVIDE DOMESTIC WATER HEATER. SEE SHEET M301 FOR FLUE AND COMBUSTION AIR PIPING.
4. PROVIDE DUPLEX SYSTEM WITH ONE BRINE TANK AND TWO MINERAL TANKS PIPED IN PARALLEL WITH ONE ANOTHER. SEE DETAIL 7 ON SHEET P501.
5. EXTEND EXISTING CONCRETE PAD TO LENGTH OF NEW DOMESTIC WATER HEATER. REBAR EXTENSION INTO EXISTING PAD. EXTENSION TO MATCH THE THECKNESS OF EXISTING PAD. SEE DETAIL 6 ON SHEET P501.
6. PROVIDE 4" WASTE PIPE SLOPED AT 1/4" PER FT AND CONNECT TO EXISTING. PROIVDE P-TRAP BELOW AND STUB UP THROUGH FLOOR TO 8" AFF WITH A GLUED CAP. CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR THE EXACT STUB-UP LOCATION PRIOR TO CUTTING FLOOR.
7. ROUTE DWH-1 DRAIN TO NEARBY EXISTING FLOOR DRAIN.
8. PROVIDE ISOLATION VALVES ON DOMESTIC CW/HW PIPES LEADING TO EACH FIXTURE. VALVE SIZE SHALL MATCH DOMESTIC HW/CW PIPE SIZE. PROVIDE ACCESS PANELS TO SHUT-OFF VALVES.
9. PROVIDE NEW THERMOSTATIC MIXING VALVE. SEE DETAIL 5 ON SHEET P501 FOR DWH-1 AND TMV-1 PIPING DETAILS.
10. KEEP SPACE CLEAR FOR FUTURE HEATING WATER BOILER.
11. CONNECT TO EXISTING NATURAL GAS MAIN. ROUTE BRANCH PIPING TO NEW WATER HEATER.
12. CONNECT TO EXISTING NATURAL GAS MAIN. ROUTE BRANCH PIPING TO TWO NEW HEATING WATER BOILERS.
13. CONNECT TO EXISTING DOMESTIC COLD WATER AND HOT WATER PIPING.

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.



FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMISON — REGISTERED — No. PE11500004 — STATE OF INDIANA — PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

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1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

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DRAWING TITLE:
FIRST FLOOR PLUMBING FLOOR PLAN

SHEET NUMBER:
P301

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GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.

(#) PLAN NOTES:

1. PROVIDE 1" DOMESTIC HW AND CW RISERS EXTENDING FROM EXISTING FIRST FLOOR DOMESTIC WATER PIPING.
2. PROVIDE ISOLATION VALVES ON DOMESTIC CW/HW PIPES LEADING TO EACH FIXTURE. VALVE SIZE SHALL MATCH DOMESTIC HW/CW PIPE SIZE. PROVIDE ACCESS PANELS TO UNIT STOP VALVES.
3. PROVIDE DOMESTIC CLOTHES WASHER BOX WITH ISOLATION VALVES AND WATER HAMMER ARRESTORS FOR CLOTHES WASHER CONNECTIONS. SEE DETAIL 8 ON SHEET P501.



SECOND FLOOR PLUMBING PLAN

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

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PROFESSIONAL SEAL:

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STATE OF
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PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

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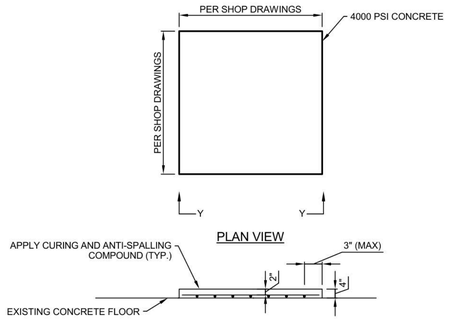
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DRAWING TITLE: SECOND FLOOR PLUMBING FLOOR PLAN

SHEET NUMBER: P311

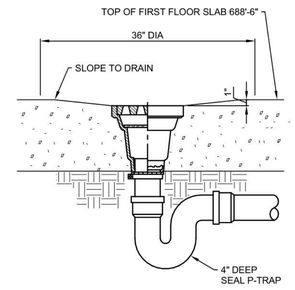
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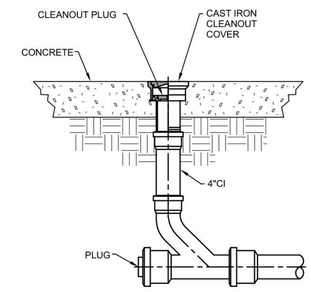
NOTES:

1. THE MIXING, HANDLING, PLACING, AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH THE ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
2. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, ACI 318 AND ACI 306. DO NOT PLACE DURING RAIN, SLEET, OR SNOW WITHOUT ADEQUATE PROTECTION.
3. ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
4. ALL REINFORCING STEEL BENDS, HOOKS, LAP SPLICES, AND MINIMUM CONCRETE COVER SHALL CONFORM TO THE ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) UNLESS OTHERWISE INDICATED.
5. ALL REINFORCING STEEL SHALL BE SUPPORTED AND SECURED AGAINST DISPLACEMENT IN ACCORDANCE WITH CONCRETE REINFORCING STEEL INSTITUTE'S "MANUAL OF STANDARD PRACTICE". OVERHANGING TAILS SHALL BE SUPPORTED BY TOP SLAB BARS. EACH SUPPORT BAR, OF PROPER LENGTH, MAY REPLACE A TEMPERATURE BAR IN THE PARALLEL DIRECTION. SHOW SLAB BAR SUPPORTS ON SHOP DRAWINGS.
6. ALL CONCRETE REINFORCEMENT MATERIALS SHALL BE NEW, FREE FROM RUST, AND COMPLYING WITH THE FOLLOWING REFERENCE STANDARDS:
   - 6.1. ALL REINFORCING BARS (EXCEPT AS NOTED BELOW) ASTM A-615, GRADE 60
   - 6.2. WELDED WIRE FABRIC: ASTM A-185

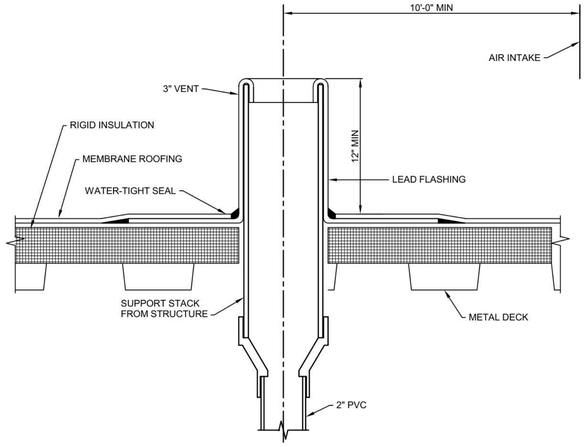
6 EQUIPMENT PAD EXPANSION DETAIL
SCALE: NONE



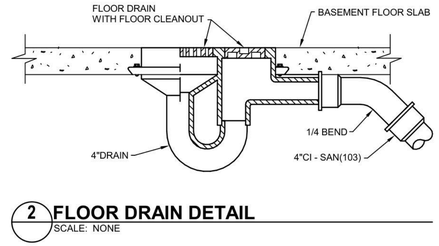
3 FLOOR DRAIN DETAIL (ON GRADE)
SCALE: NONE



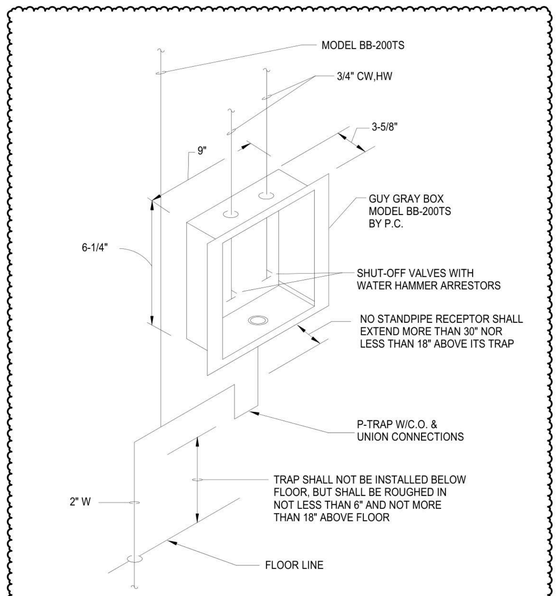
1 FLOOR CLEANOUT DETAIL
SCALE: NONE



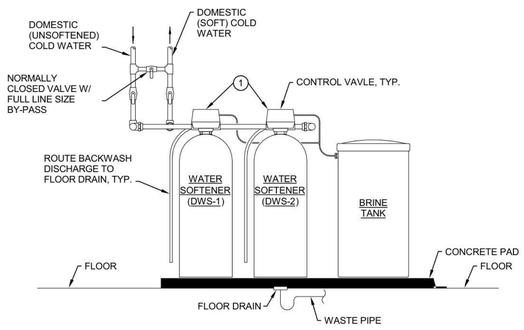
4 PLUMBING VENT DETAIL
SCALE: NONE



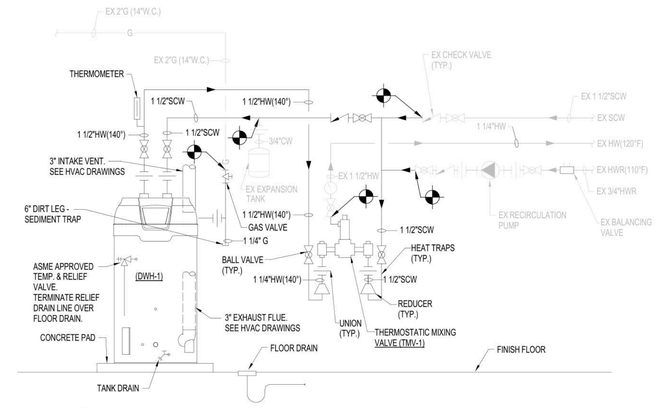
2 FLOOR DRAIN DETAIL
SCALE: NONE



8 DOMESTIC CLOTHES WASHER BOX DETAIL
SCALE: 3/16" = 1'-0"



7 DUPLEX WATER SOFTENER PIPING DETAIL
SCALE: NONE



NOTES:

1. PROVIDE CONDENSATE NEUTRALIZATION KIT FOR WATER HEATER.
2. ROUTE DRAIN LINE(S) TO NEAREST FLOOR DRAIN.
3. SET WATER HEATER OUTLET TEMERATURE AT 140°F.
4. PROVIDE VENT KIT FOR WATER HEATER. SEE HVAC DRAWINGS.

5 DOMESTIC WATER HEATER PIPING DETAIL
SCALE: NONE

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PROFESSIONAL SEAL:
MICHAEL DAVID JAMESON REGISTERED No. PE11500004 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE: PLUMBING DETAILS

SHEET NUMBER: P501

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PLUMBING EQUIPMENT SCHEDULE

TAG NO.	DESCRIPTION	PIPE CONNECTIONS					PERFORMANCE				BASIS OF DESIGN		DRY WGT. (LBS)	NOTES
		WASTE	VENT	CW	HW	GAS	GPM	P.D.	AMPS	VOLTS/Hz/PH	MFG.	MODEL		
DWS-1	TWIN WATER SOFTENER	FLOOR DRAIN	-	2"	-	-	-	-	-	-	FRANKLIN WATER TREATMENT	FWT2-120		TWIN WATER SOFTENERS, 4.0 CU. FT. (EACH), PROGRESSIVE FLOW, FLOW METERS, ON DEMAND REGENERATION UNITS, ELECTRONIC CONTROLS, 24" DIA. X 50" TALL BRINE TANK, SOFTENING DOMESTIC HOT AND COLD WATER FOR BUILDING.
DWH-1	DOMESTIC WATER HEATER	3/4"	3"	1-1/2"	1-1/2"	3/4"	47 GPM 60 GPM	15 PSI 25 PSI		120/60/1	AO SMITH	BTH-250(A)		100 GALLON CAPACITY TANK. RECOVERY 288 GPH AT 100°F. OPERATING SET POINT TO BE SET AT 140° F.
TMV-1	THERMOSTATIC MIXING VALVE	-	-	1"-1/4	1"-1/4	-	43	5 PSI	-	-	LAWLER	803	31	MASTER MIXING VALVE, ALL BRONZE CONSTRUCTION, BRASS FINISH WITH THERMOMETER, SHUT-OFF VALVES AND UNIOINS. SET POINT AT 120°F.
POU-TMV	POINT OF USE THERMOSTATIC MIXING VALVE (BELOW LAVRATORIES, SINKS, AND SHOWERS)	-	-	3/8"	3/8"	-	0.5	5 PSI	-	-	LAWLER	TMM-1070-87500	-	ALL BRONZE CONSTRUCTION, ASSE 1070, MECHANICAL MIXING VALVE, HIGH TEMPERATURE LIMIT STOP WITH AUTOMATIC RESET, INTEGRAL BACK FLOW CHECKS, COMPRESSION FITTINGS AND A MEANS TO ADJUST OUTLET TEMPERATURE.

PLUMBING FIXTURE SCHEDULE

TAG NO.	DESCRIPTION	NEEDED PIPE CONNECTIONS				FIXTURE PERFORMANCE (GPM/GPF)	BASIS OF DESIGN		MOUNTING HEIGHT	NOTES
		WASTE	VENT	CW	HW		MFG.	MODEL		
WC-1	WATER CLOSET ADA	3"	2"	3/4"	-	1.28	KOHLER	K-3999	16.5" AFF TO RIM	WATER CLOSET: "HIGHLINE COMFORT HEIGHT" FLOOR MOUNT, TWO PIECE, ELONGATED BOWL, 1.28 GPF, SEAT: KOHLER K-4636, CACHET QUIET-CLOSE, COLOR-MATCHED PLASTIC HINGES, PLASTIC.
L-1	LAVATORY	2"	1 1/2"	3/4"	3/4"	1.2	CORIAN DESIGN; KOHLER	7418 LAVATORY; K-16027-4	34" AFF TO RIM	LAVATORY: CHIC COLLECTION, U-SHAPED LAVATORY, ACRYLIC-POLYESTER SOLID SURFACE, NO OVERFLOW, OVERALL DIMENSIONS 21" X 14-1/8" X 5" WATER DEPTH. FAUCET: "JULY", SINGLE-HOLE, DECK-MOUNTED, SINGLE-LEVER MANUAL FAUCET, 1.2 GPM MAXIMUM FLOW RATE, 4-3/8" SPOUT REACH, STATIONARY SPOUT, CERAMIC DISC VALVE, BRASS CONSTRUCTION, INCLUDES METAL POP-UP DRAIN WITH 1-1/4" TAILPIECE, FLEXIBLE SUPPLY LINES, ADA AND WATERSENSE COMPLIANT.
SK-1	LAUNDRY SINK	2"	1 1/2"	3/4"	3/4"	1.5	JUST MANUFACTURING; KOHLER	USN-ADA-1821-A; K-22062	DECK MOUNTED	SINK: 18 GAUGE 304 STAINLESS STEEL SINGLE BOWL, INTEGRA-DRAIN INTEGRAL DRAIN SYSTEM, OVERALL DIMENSIONS 21" X 18" X 4-1/2" WATER DEPTH. FAUCET: "GRAZE", SINGLE-HOLE, DECK MOUNTED, SINGLE-LEVER MANUAL FAUCET, 1.5 GPM MAXIMUM FLOW RATE, 10-3/4" SPOUT REACH, 270° ROTATING SWING SPOUT, PULL-DOWN FAUCET WITH THREE-FUNCTION SPRAY HEAD, CERAMIC DISK VALVE, ZINC CONSTRUCTION, VIBRANT BRUSHED MODERNE BRASS COLOR.
SK-2	SERVICE SINK	2"	1 1/2"	3/4"	3/4"	1.5	ELKAY; CHICGO FAUCETS	RNSF8124LR2;629-ABCP	FAUCET TO BE FACE MOUNTED ON SINK SPLASH GUARD	SINK: 16 GAUGE, 300 STAINLESS STEEL, TWO COMPARTMENT SINK, 9" BACKSPLASH HEIGHT, TWO FAUCET HOLES, SINK DIMENSIONS 43" X 29-3/16" X 43-3/4", BOWL DIMENSIONS 18" X 24" 14", 3-1/2" CENTER DRAIN. FACUET: SINGLE-HOLE, REMOTE GOOSENECK SPOUT, 1.5 GPM MAXIMUM FLOW RATE, 3-1/2" CENTER-TO-CENTER GOOSENECK, CAST BRASS CONSTRUCTION, CHROME PLATED, LAMINAR FLOW CONTROL.
SH-1	SHOWER	2"	-	1 1/2"	1 1/2"	2	INPRO;KOHLER	PRISM SOLID SURFACE SHOWER PROTECTOR;K-TS98008-4	7' 5" AFF SHOWER HEAD	SHOWER:60"x30" STANDARD SHOWER BASE WITH CURB FAUCET: "JULY", SINGLE-HOLE, WALL MOUNTED, SINGLE-LEVER, 2.0 GPM, SINGLE-FUNCTION SHOWERHEAD WITH MASTERCLEAN SPRAYFACE. DRAIN: ZURN FD2250 SHOWER DRAIN, DURA-COATED CAST IRON BODY OR PVC/ABS BODY, CLAMP COLLAR, ADJUSTABLE PVC HEAD, SECURED STAINLESS STEEL STRAINER. VALVE: KOHLER K-8304-KS, SHOWER VALVE BODY AND CARTRIDGE KIT, INTEGRAL SERVICE STOPS, RITE TEMP® PRESSURE-BALANCING, DIRECT SWEAT INLETS/OUTLETS, 5.0 GPM MAXIMUM FLOW, MACHINED BRASS CONSTRUCTION.
HB-1	HOSE BIBB	-	-	3/4"	-		WOODFORD	MB24-3/4	24" AFG	WALL HYDRANT, RECESSED BOX WITH LOCKING COVER, NIDEL® MODEL 34HF ANTI SIPHON VACUUM BREAKER, STAINLESS STEEL DOOR, 3/4" MALE HOSE THREAD, LOOSE TEE KEY.
EWC-1	WATER BOTTLE FILLING STATION	EXISTING	EXISTING	EXISTING	-		ELKAY	LZS8WSSK	SPOUT HEIGHT 3'-0"; CONTRACTOR TO VERIFY EXISTING HEIGHT	WALL-MOUNTED, SENSOR-ACTIVATED, STAINLESS STEEL, 1.1 GPM @ 60 PSI, FLEXIBLE BUBBLER WITH INTEGRAL FILTER, QUICK-CONNECT INLET/OUTLET, ADA COMPLIANT, NSF/ANSI 61 & 372 CERTIFIED
W-1	RESIDENTIAL WASHER	1-1/2"	-	3/4"	3/4"		GE	PTW700BSTWS		OWNER FURNISHED CONTRACTOR INSTALLED

DRAINING FIXTURE SCHEDULE

TAG NO.	DESCRIPTION	IPS SIZE	STRAINER	BASIS OF DESIGN		NOTES
				MFG.	MODEL	
FD-3	FLOOR DRAIN	SAME AS CONNECTING PIPE	NICKEL BRONZE ROUND	ZURN	Z415B	FLOOR DRAIN, DURA-COATED CAST IRON BODY, COMBINATION INVERTED MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, POLISHED NICKLE BRONZE, LIGHT DUTY STRAINER.

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Pre-bid Changes		08/14/26

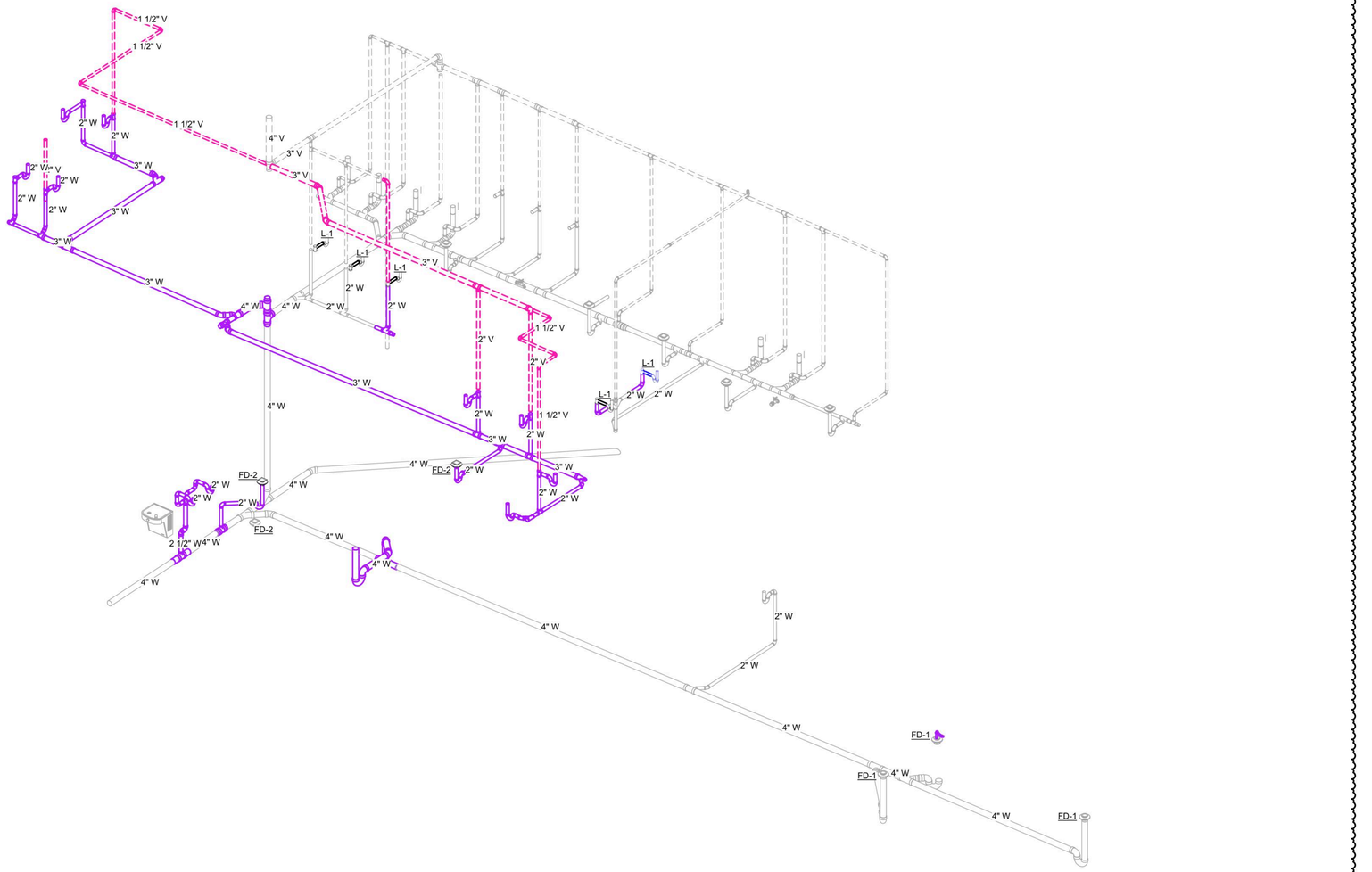
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05/15/26	MDJ	TMA

DRAWING TITLE:
PLUMBING SCHEDULES

SHEET NUMBER:
P601

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REVISION SCHEDULE

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1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:

PLUMBING DIAGRAMS

SHEET NUMBER:

P701

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NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS NOT NECESSARILY USED ON THIS PROJECT.

GENERAL SYMBOLS:

- POINT OF CONNECTION
- POINT OF REMOVAL
- PLAN NOTE
- DEMOLITION NOTE
- REVISION
- DETAIL BUBBLE
- SECTION BUBBLE

VALVES & FITTINGS:

- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- CONTROL VALVE
- REDUCED PRESSURE BACK FLOW PREVENTER
- INDICATED FLOW DIRECTION
- PIPE TURN 90°
- LINE BREAK
- PIPE ELBOW UP (RISER)
- PIPE ELBOW DOWN
- PIPE TEE DOWN
- CAP OR PLUG
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC
- FLANGES
- UNION
- METER
- FD FLOOR DRAIN
- GAUGE
- THERMOMETER
- STEAM TRAP
- PRESSURE SENSOR
- INLINE PUMP

PIPING DESIGNATIONS:

- NEW
- EXISTING TO REMAIN
- DEMOLITION
- FUTURE
- PIPE SLOPES IN DIRECTION OF ARROW
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- 140°F DOMESTIC HOT WATER 140°F
- 140°F DOMESTIC HOT WATER 140°F RETURN
- W WASTE PIPING
- ST STORM PIPING
- V SANITARY VENT
- D INDIRECT DRAIN
- AW ACID WASTE
- AV ACID VENT
- DE DEIONIZED WATER
- DI DISTILLED WATER
- RODI REVERSE OSMOSIS DEIONIZED WATER
- LS LAWN SPRINKLER
- G GAS
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- FOV FUEL OIL VENT
- VAC VACUUM
- A COMPRESSED AIR

FIRE PROTECTION PIPING SYMBOLS

- F FIRE PROTECTION
- PA PRE-ACTION
- FDP FIRE DRY PIPE
- FIRE DEPARTMENT SIAMESE CONNECTION (FREE STANDING)
- FIRE DEPARTMENT SIAMESE CONNECTION (WALL MOUNTED)
- FLOW SWITCH
- TS ZONE CONTROL VALVE WITH TAMPER SWITCH

PLUMBING ABBREVIATIONS:

AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AV	ACID VENT
AW	ACID WASTE
BDD	BACK DRAFT DAMPER
BF	BOTTLE FILLER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
℄	CENTERLINE
CO	CLEANOUT
CS	CUP SINK
CSS	CLINIC SERVICE SINK
CW	DOMESTIC COLD WATER
D	CONDENSATE/DRAIN
DB	DRY BULB
DCV	DOUBLE CHECK VALVE
DIA	DIAMETER
DN	DOWN
DWH	DOMESTIC WATER HEATER
ESEW	EMERGENCY SHOWER AND FACE/EYE WASH
EW	EMERGENCY EYE/FACE WASH
EWC	ELECTRIC WATER COOLER
EL	ELEVATION
ES	EMERGENCY SHOWER
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
HKSP	HOUSEKEEPING
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HWCP	HOT WATER RECIRCULATION PUMP
IE	INVERT ELEVATION
JS	JANITOR SINK
L	LAVATORY
MB	MOP BASIN
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
PH	PHASE
PIV	POST INDICATING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RO	REVERSE OSMOSIS
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SAN	SANITARY
SCW	DOMESTIC SOFT COLD WATER
SH	SHOWER
SI	SEDIMENT INTERCEPTOR
S	SINK
SS	STAINLESS STEEL
ST	STORM WATER
TD	TRENCH DRAIN
UR	URINAL
V	SANITARY VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

GENERAL NOTES:

A. VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BIDDING AND BEFORE BEGINNING WORK.
B. REVIEW THE WORK OF OTHER TRADES, COORDINATE AND -PLAN WORK WITH THE OTHER TRADES AND OWNER. ADJUST AS A RESULT OF COORDINATION.
C. STORE EQUIPMENT AND COMPONENTS IN A CLEAN, DRY LOCATION UNTIL READY FOR INSTALLATION. PROTECT FROM WEATHER, DIRT, WATER, AND CONSTRUCTION DEBRIS, ETC. AT ALL TIMES. ANY DAMAGED EQUIPMENT OR COMPONENTS SHALL BE RESTORED AS NEW OR REPLACED.
D. ALL MATERIALS REMOVED AND NOT RELOCATED BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE MATERIALS FROM THE PROJECT SITE UNLESS NOTED OTHERWISE.
E. PATCH WALLS, FLOORS, CEILINGS, COLUMNS, ROOF PENETRATIONS, ETC. WHERE ITEMS ARE REMOVED TO MATCH ADJACENT SURFACES.
F. DRAWINGS SHOW THE INTENDED ARRANGEMENT AND ROUTING OF ALL PIPING, EQUIPMENT, AND APPURTENANCES. THEY SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT.
G. CLEAN ALL EQUIPMENT TO PRESENT A "LIKE NEW" CONDITION AT PROJECT COMPLETION.
H. OFFSET PIPING AROUND ELECTRICAL PANELS TO PROVIDE CLEARANCES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
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No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:
FP001

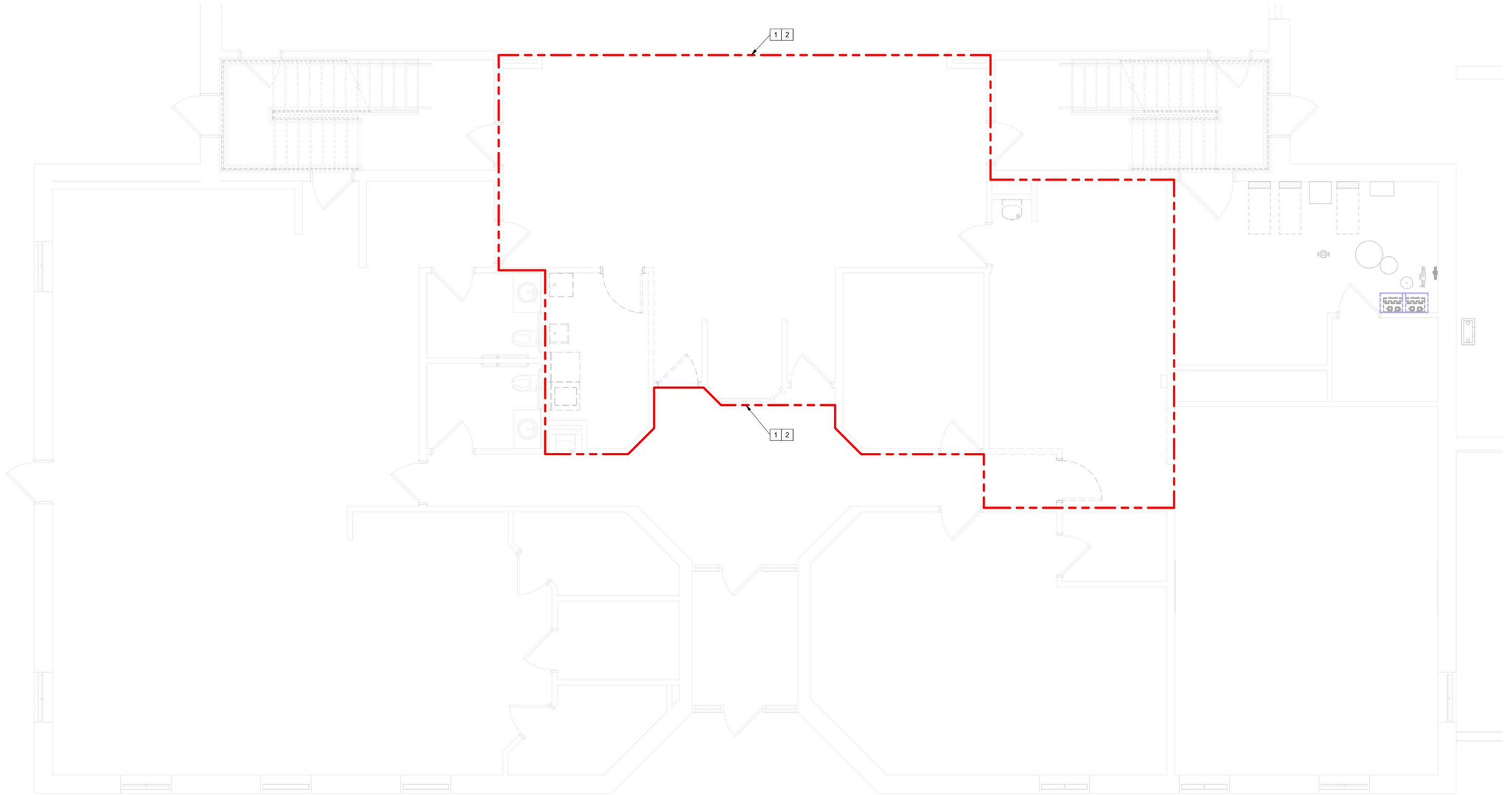
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GENERAL NOTES:

A. SEE FP001 FOR SYMBOLS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B. WORK INCLUDES MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM FOR NEW REARRANGEMENT OF WALLS, DOORS, CEILING HEIGHTS, ETC. CONTRACTOR SHALL VERIFY EXISTING LOCATIONS, ELEVATIONS, CONDITIONS, PIPE SIZES, ETC. AND MODIFY SPRINKLER SYSTEM AS REQUIRED.
C. THE EXISTING SPRINKLER BRANCH PIPING IS A CPVC SYSTEM INTENDED FOR USE IN FIRE PROTECTION SYSTEMS, SPEERS FLAMEGUARD.

DEMOLITION NOTES:

1. REMOVE ALL SPRINKLER HEADS WITHIN THE CONSTRUCTION BOUNDARY.
2. REMOVE SPRINKLER PIPING AS REQUIRED BY THE NEW FLOOR PLAN AND CEILING LAYOUT WITHIN THE CONSTRUCTION BOUNDARY.



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

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DRAWING TITLE:
FIRST FLOOR FIRE PROTECTION DEMOLITION

SHEET NUMBER:
FP101

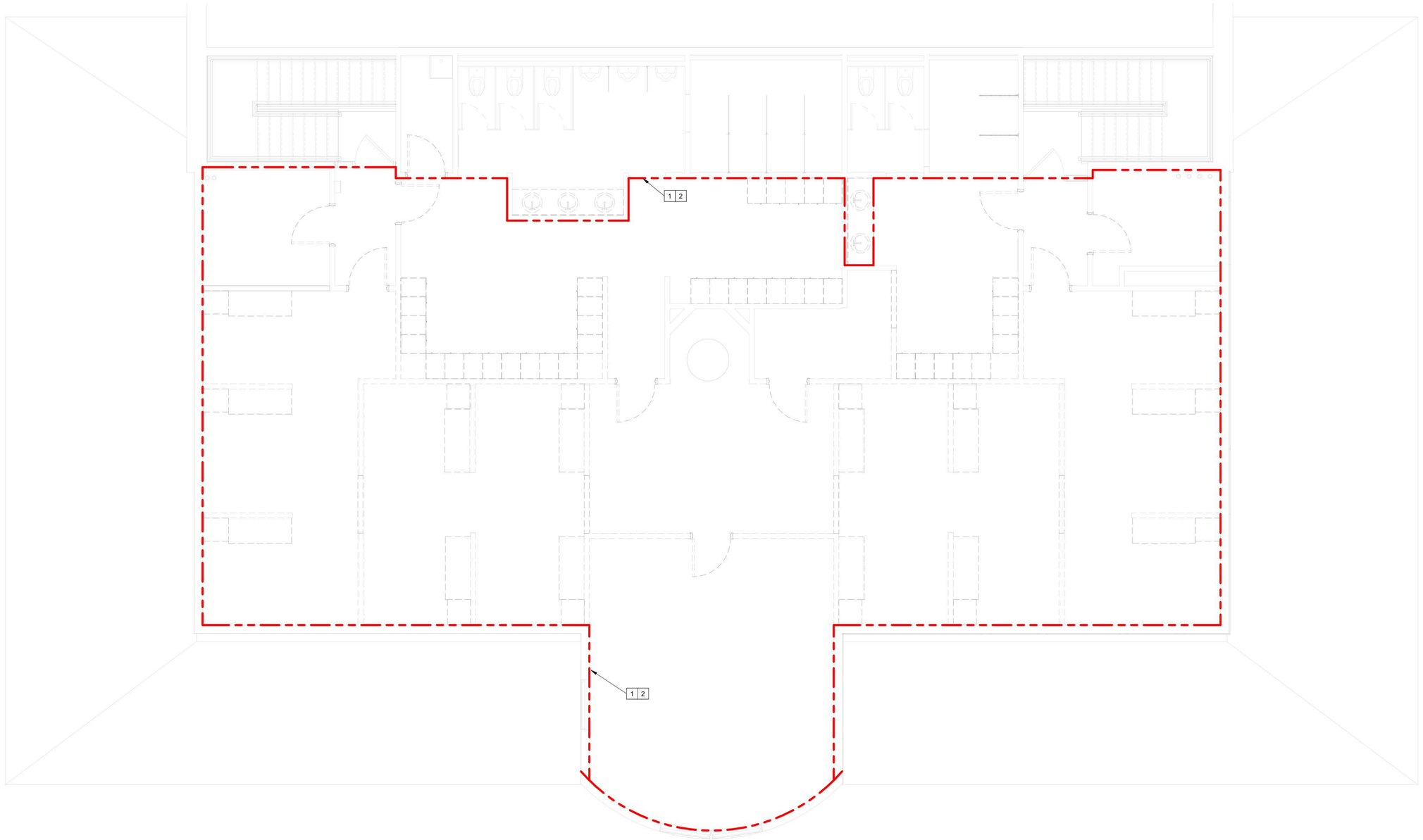
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GENERAL NOTES:

A. SEE FP001 FOR SYMBOLS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B. WORK INCLUDES MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM FOR NEW REARRANGEMENT OF WALLS, DOORS, CEILING HEIGHTS, ETC. CONTRACTOR SHALL VERIFY EXISTING LOCATIONS, ELEVATIONS, CONDITIONS, PIPE SIZES, ETC. AND MODIFY SPRINKLER SYSTEM AS REQUIRED.
C. THE EXISTING SPRINKLER BRANCH PIPING IS A CPVC SYSTEM INTENDED FOR USE IN FIRE PROTECTION SYSTEMS, SPEERS FLAMEGUARD.

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SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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SECOND FLOOR FIRE PROTECTION DEMOLITION

SHEET NUMBER:
FP111

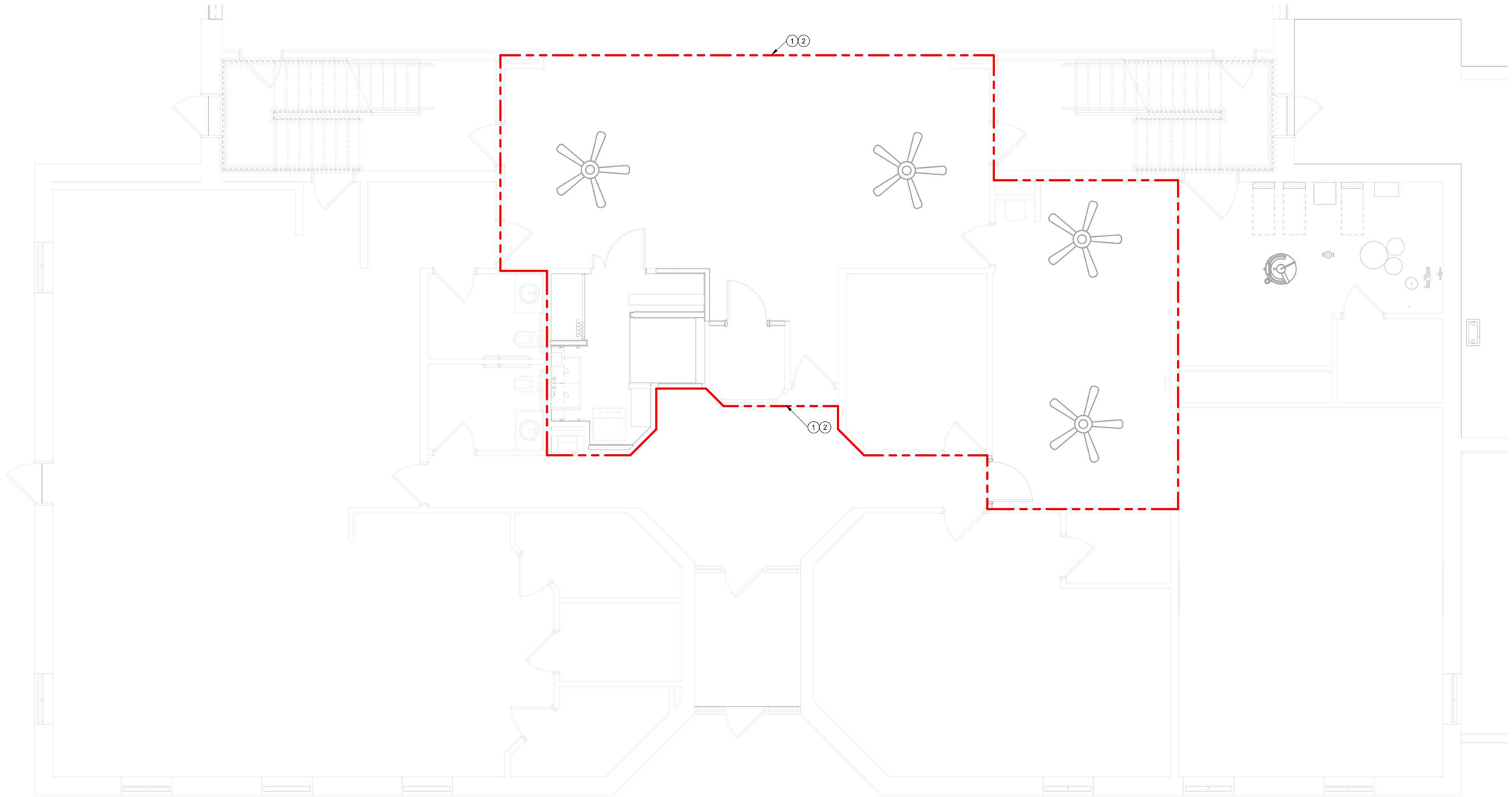
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GENERAL NOTES:

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(#) PLAN NOTES:

1. PROVIDE NEW SPRINKLER HEADS WITHIN THE CONSTRUCTION BOUNDARY.
2. LAYOUT NEW SPRINKLER HEADS AND PIPING AS REQUIRED BY THE NEW FLOOR PLAN AND CEILING LAYOUT, WITHIN THE CONSTRUCTION BOUNDARY.



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

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DRAWING TITLE:
FIRST FLOOR FIRE PROTECTION FLOOR PLAN

SHEET NUMBER:
FP301

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GENERAL NOTES:

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SECOND FLOOR FIRE PROTECTION PLAN
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25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	MDJ	TMA

DRAWING TITLE:
SECOND FLOOR FIRE PROTECTION FLOOR PLAN

SHEET NUMBER:
FP311

5/15/2026 11:47:21 AM Autodesk Docs://250060 - Carmel Fire Station 42&46/25-150_Carmel Fire Station 42_MEP2024.rvt

NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS NOT NECESSARILY USED ON THIS PROJECT.

RACEWAY SYMBOLS:

- CONDUIT
- CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
- UNDERGROUND CONDUIT STUBBED OUT 5'-0" FROM BUILDING OR WALKWAY LINE, CAPPED AND MARKED
- B#5,7 — HOME RUN TO PANEL "B" FOR CIRCUITS #5 & 7 WITH COMMON NEUTRAL AND GROUND
- CONDUIT UP/DOWN
- JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING AREA

RECEPTACLE SYMBOLS:

WALL RECEPTACLES 18" TO CENTER AFF UNLESS OTHERWISE NOTED EXCEPT FOR ABOVE COUNTER RECEPTACLES WHICH ARE +6" TO CENTER ABOVE COUNTER OR BLACKSPLASH COORDINATED WITH APPROVED SHOP DRAWINGS

- 20 AMP SIMPLEX GROUNDING RECEPTACLE - WALL, HORIZONTAL, ABOVE COUNTER, EMERGENCY POWER
- 20 AMP DUPLEX GROUNDING RECEPTACLE - WALL, HORIZONTAL, ABOVE COUNTER, EMERGENCY POWER, SPLIT WIRED
- 20 AMP DUPLEX GROUNDING RECEPTACLE, GROUND FAULT INTERRUPTING CIRCUIT - WALL, HORIZONTAL, ABOVE COUNTER, EMERGENCY POWER
- 20 AMP DOUBLE DUPLEX GROUNDING RECEPTACLE IN TWO GANG OUTLET BOX - WALL, ABOVE COUNTER, EMERGENCY POWER, SPLIT WIRED
- 20 AMP DOUBLE DUPLEX GROUNDING RECEPTACLE IN TWO GANG OUTLET BOX, GROUND FAULT INTERRUPTING CIRCUIT - WALL, ABOVE COUNTER, EMERGENCY POWER
- 20 AMP SIMPLEX GROUNDING RECEPTACLE, FLOOR MOUNTED - FLOOR, EMERGENCY POWER
- 20 AMP DUPLEX GROUNDING RECEPTACLE, FLOOR MOUNTED - FLOOR, EMERGENCY POWER, SPLIT WIRED
- 20 AMP DOUBLE DUPLEX GROUNDING RECEPTACLE, FLOOR MOUNTED - FLOOR, EMERGENCY POWER, SPLIT WIRED
- 20 AMP GROUNDING RECEPTACLE, CEILING MOUNTED - SIMPLEX, DUPLEX, DOUBLE DUPLEX
- SPECIAL RECEPTACLE - SEE DRAWING FOR NEMA TYPE
- OPTIONS - CONTROLLED, HALF-CONTROLLED, TAMPER RESISTANT USB, WEATHERPROOF
- SURFACE MULTI-OUTLET RACEWAY WITH RECEPTACLES 24" ON CENTER UNLESS OTHERWISE NOTED

LIGHTING CONTROL SYMBOLS:

- $^{3}_{a}$ — 20 AMP POLE TOGGLE SWITCH 48" AFF TO TOP UNLESS OTHERWISE NOTED. INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE. SUBSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING:

  TOP: 2 - DOUBLE POLE, 3 - THREE WAY, D - DIMMER, LV - LOW-VOLTAGE PUSH BUTTON TYPE TOGGLE SWITCH, 4 - FOUR WAY, P - PILOT LIGHT, LC - LIGHT CONTROLLER, M - MOMENTARY, K - KEY OPERATED, BLANK - SINGLE POLE

  BOTTOM: a,b,c,d, ETC. - IDENTIFICATION OF CONTROLLED DEVICE
- OCCUPANCY SENSOR SWITCH, CEILING MOUNTED
- OCCUPANCY SENSOR SWITCH, WALL MOUNTED
- DAYLIGHT SENSOR SWITCH, CEILING MOUNTED
- DAYLIGHT SENSOR SWITCH, WALL MOUNTED
- RC — LIGHTING ROOM CONTROLLER
- R — LIGHTING ISOLATED RELAY

POWER/MOTOR CONTROL SYMBOLS:

- PANELBOARD OR EQUIPMENT CABINET AS INDICATED
- NEC REQUIRED WORKING SPACE
- MOTOR, NUMBER INDICATES HP
- $^{T}_{P}$ — MANUAL MOTOR STARTER WITH THERMAL OVERLOADS AND PILOT LIGHT, 48" AFF
- X — SAFETY (DISCONNECT) SWITCH, INSTALL AT 60" AFF, "F" INDICATES FUSE SIZE, BLANK INDICATES NON-FUSED, "X" INDICATES AMPERAGE RATING
- COMBINATION STARTER: SEE SCHEDULE.

LIGHTING SYMBOLS:

- a/b / F# — LIGHTING FIXTURE, "a/b" INDICATES SWITCHING, "F#" INDICATES TYPE
- LIGHTING FIXTURE EMERGENCY CIRCUIT, AS INDICATED.
- ALWAYS ON NIGHT LIGHT
- a / F# — ROUND LIGHTING FIXTURE, "a" INDICATES SWITCHING, "F#" INDICATES TYPE
- a / F# — WALL MOUNTED LIGHTING FIXTURE, "a" INDICATES SWITCHING, "F#" INDICATES TYPE
- SINGLE ARM LIGHTING STANDARD, POLE MOUNTED LUMINAIRE AND POLE SUPPORT BASE
- DOUBLE ARM LIGHTING STANDARD, POLE MOUNTED LUMINAIRE AND POLE SUPPORT BASE
- LIGHTING FIXTURE ON LIGHTING TRACK, CEILING MOUNTED
- SINGLE FACE EXIT SIGN. ARROW INDICATES DIRECTIONAL ARROW ON EXIT SIGN FACE
- EXIT SIGN, WALL MOUNTED 8'-0" AFF UNLESS OTHERWISE NOTED
- EMERGENCY BATTERY UNIT WITH TWO HEADS, WALL MOUNTED 8'-0" AFF UNLESS OTHERWISE NOTED

FIRE ALARM SYMBOLS:

ALL FIRE ALARM WORK BY DIV. 28. DIV 26 SHALL PROVIDE ROUGH-INS AND CONDUITS PER DETAILS, UNLESS OTHERWISE NOTED.

- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- NAC — NOTIFICATION ALARM CIRCUIT
- F — FIRE ALARM MANUAL PULL STATION, 48" AFF TO TOP UNLESS OTHERWISE NOTED.
- F — FIRE ALARM MANUAL PULL STATION, AUDIO-VISUAL INDICATING DEVICE CENTERED ABOVE THE PULL STATION, 48" AFF AND +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED
- V — FIRE ALARM VISUAL ONLY INDICATING DEVICE, +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED

CEILING	WALL	
AV	AV	FIRE ALARM AUDIO/VISUAL INDICATING DEVICE, WALL MOUNT +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED
SV	SV	FIRE ALARM SPEAKER/VISUAL INDICATING DEVICE, WALL MOUNT +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED
S	S	FIRE ALARM SPEAKER ONLY INDICATING DEVICE, WALL MOUNT +80" AFF
V	V	FIRE ALARM VISUAL ONLY INDICATING DEVICE, WALL MOUNT +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED
C	C	FIRE ALARM CHIME ONLY INDICATING DEVICE, WALL MOUNT +80" AFF
A	A	FIRE ALARM AUDIO HORN INDICATING DEVICE, WALL MOUNT +80" AFF

- BELL
- SD — AREA SMOKE DETECTOR
- HD — AREA HEAT DETECTOR
- FS — FLOW SWITCH, FIRE ALARM
- TS — TAMPER SWITCH, FIRE ALARM
- DS — DOOR SWITCH, FIRE ALARM
- AS — AIR DUCT SMOKE DETECTOR MOUNTED ON AIR DUCT
- LA — LOW AIR
- PS — PRESSURE SWITCH
- DOOR HOLD

TELECOMMUNICATION SYMBOLS:

- X — DATA OUTLET IN TWO GANG BOX WITH SINGLE GANG OPENING, "X" INDICATES NUMBER OF DATA JACKS
- X/X — VOICE/DATA OUTLET IN TWO GANG BOX WITH SINGLE GANG OPENING, "X/X" INDICATES NUMBER OF VOICE/DATA JACKS
- X — VOICE OUTLET IN TWO GANG BOX WITH SINGLE GANG OPENING, "X" INDICATES NUMBER OF VOICE JACKS
- X/X — FLUSH FLOOR VOICE/DATA OUTLET, "X/X" INDICATES NUMBER OF VOICE/DATA JACKS
- X — FLOOR OUTLET, DATA OUTLET CONSISTS OF (2) DATA OUTLETS UNLESS OTHERWISE NOTED, EACH ALPHA CHARACTER "X" INDICATES NUMBER OF UNIQUE DATA JACKS
- AC-X — CEILING MOUNTED OUTLET, DATA OUTLET CONSISTS OF (2) DATA OUTLETS, UNLESS OTHERWISE NOTED, EACH ALPHA CHARACTER "X" INDICATES NUMBER OF UNIQUE DATA JACKS
- AP-X — CEILING MOUNTED WIRELESS ACCESS POINT OUTLET, DATA OUTLET CONSISTS OF (2) DATA OUTLETS, UNLESS OTHERWISE NOTED, EACH ALPHA CHARACTER "X" INDICATES NUMBER OF UNIQUE DATA JACKS
- SURFACE DATA/TELECOM RACEWAY
- S — CEILING MOUNTED SPEAKER
- PAGING HORN TYPE SPEAKER
- TV — TELEVISION/VIDEO OUTLET IN TWO GANG BOX WITH SINGLE GANG OPENING

SECURITY/ACCESS CONTROL SYMBOLS

- CR — CARD READER, WALL MOUNT +48" AFF TO TOP UNLESS OTHERWISE NOTED.
- KP — KEYPAD
- PB — PANIC BUTTON, WALL MOUNT +48" AFF TO TOP UNLESS OTHERWISE NOTED.
- RX — REQUEST TO EXIT, IF A SEPARATE BUTTON AND NOT BUILT INTO THE DOOR HARDWARE WALL, MOUNT +48" AFF TO TOP UNLESS OTHERWISE NOTED.
- DS — DOOR STATUS
- ES — ELECTRIC STRIKE
- ML — MAG LOCK
- AA — AUDIBLE ALARM

DIAGRAM SYMBOLS:

- GROUND ROD (SINGLE LINE DIAGRAM)
- GROUND ROD (PLAN DRAWING)
- LIGHTNING ROD
- EXOTHERMIC WELDED CONNECTION
- T — TRANSFORMER, 480V PRIMARY, 120/208 VOLT SECONDARY, 3 PHASE, 4 WIRE UNLESS OTHERWISE NOTED
- CURRENT & VOLTAGE TRANSFORMERS AS REQUIRED (REFER TO SPECIFICATIONS)
- AM — AMMETER, (REFER TO SPECIFICATIONS)
- VM — VOLTMETER, (REFER TO SPECIFICATIONS)
- FUSE
- 30A 3P — CIRCUIT BREAKER (C.B.)
- PUSHBUTTON, NORMALLY OPEN
- PUSHBUTTON, NORMALLY CLOSED
- LEVEL SWITCH, NORMALLY OPEN
- LEVEL SWITCH, NORMALLY CLOSED
- LIMIT SWITCH, NORMALLY OPEN
- LIMIT SWITCH, NORMALLY CLOSED
- PRESSURE SWITCH, NORMALLY OPEN
- PRESSURE SWITCH, NORMALLY CLOSED
- FLOW SWITCH, NORMALLY OPEN
- FLOW SWITCH, NORMALLY CLOSED
- ON-DELAY TIMING CONTACT, NORMALLY OPEN
- ON-DELAY TIMING CONTACT, NORMALLY CLOSED
- OFF-DELAY TIMING CONTACT, NORMALLY OPEN
- OFF-DELAY TIMING CONTACT, NORMALLY CLOSED
- TEMPERATURE SWITCH, NORMALLY OPEN
- TEMPERATURE SWITCH, NORMALLY CLOSED
- RELAY CONTACT, NORMALLY OPEN
- RELAY CONTACT, NORMALLY CLOSED
- SOLENOID VALVE (WIRING DIAGRAM)
- R — PUSH-TO-TEST PILOT LIGHT
- XXXX / XXXX / x / x — 2-POSITION SELECTOR SWITCH
- OFF / HAND / AUTO / x / x — 3-POSITION SELECTOR SWITCH
- TERMINAL BLOCK
- CONTROL TRANSFORMER
- CONTROL TRANSFORMER

GENERAL SYMBOLS:

- NEW
- EXISTING TO REMAIN
- DEMOLITION
- FUTURE
- POINT OF CONNECTION
- POINT OF REMOVAL
- # — PLAN NOTE
- # — DEMOLITION NOTE
- # — REVISION
- X / X — DETAIL OR SECTION MARKER

ELECTRICAL ABBREVIATIONS:

#/C	MULTI-CONDUCTOR CABLE
1/C	SINGLE CONDUCTOR CABLE
20AF	20 AMP FUSES
3P	3 POLE
A, AMP	AMPERE
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR. MOUNTING HEIGHTS FROM FINISHED FLOOR TO TOP OF BOX
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
CH	CABINET HEATER
℄	CENTERLINE
E	EXISTING EQUIPMENT TO BE REUSED
EF	EXHAUST FAN
EX	EXISTING
FCU	FAN COIL UNIT
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
KVA	KILOVOLT AMPERES
KW	KILOWATT
NL	NIGHT LIGHT ON UNSWITCHED CIRCUIT
OL	OVERLOAD
PROVIDE	FURNISH, INSTALL AND CONNECT
RTU	ROOF TOP UNIT
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
WC	WATER COOLER
WG	WIRE GUARD
WP	WEATHERPROOF

GENERAL FIRE ALARM NOTES:

A. MANUAL PULL STATIONS AT EXIT DOORS SHALL BE INSTALLED WITHIN 5'-0" OF THE DOOR. OPERABLE PART OF EACH MANUAL PULL STATION SHALL BE INSTALLED BETWEEN 42" AND 48" ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.
B. FIRE RATED DOORS WITH HOLDS SHALL RELEASE UPON AN ALARM FROM SMOKE DETECTOR ON EITHER SIDE OF THE DOOR, OR OTHER ALARM INITIATION.
C. SMOKE DETECTOR SHALL BE INSTALLED 5'-0" OR LESS IN FRONT OF FACP AND CENTER OF THE DOORS WHICH CONTAIN HOLDERS.
D. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3'-0" OF AN AIR DIFFUSER OR RETURN GRILL.
E. SMOKE DETECTORS IN ELEVATOR LOBBIES MUST BE INSTALLED WITHIN 21'-0" OF THE CENTERLINE OF THE ELEVATOR.
F. FIRE ALARM DESIGN SHALL CONTAIN NO MORE THAN 70% LOAD ON EACH PANEL AND LOOP LEAVING 30% AVAILABLE FOR FUTURE CAPACITY PER CIRCUIT.
G. CONTRACTOR MAY UTILIZE OPEN FIRE ALARM CABLING OR ARMORED FIRE ALARM CABLING WHEN INSTALLING CONDUCTORS ABOVE ACCESSIBLE CEILINGS AND BEHIND ACCESSIBLE CHASES. FIRE ALARM CABLING SHALL BE INSTALLED IN RACEWAY ABOVE INACCESSIBLE CEILINGS AND BEHIND INACCESSIBLE CHASES AND WALLS. IN ALL OPEN PUBLIC SPACES, FIRE ALARM CABLING SHALL BE INSTALLED IN RACEWAY (SURFACE RACEWAY) AND RACEWAY SHALL BE PAINTED TO MATCH WALLS/CEILING SURFACE ON WHICH THE RACEWAY IS INSTALLED.
H. OPEN FIRE ALARM CABLING NOT INSTALLED IN RACEWAY SHALL BE PLENUM RATED, NO EXCEPTION.
I. CONTRACTOR SHALL ADJUST DEVICE LOCATIONS BY UP TO 30" FROM WHAT IS SHOWN TO AVOID OBSTRUCTIONS.
J. CONTRACTOR SHALL PROVIDE "SURFACE MOUNT ADAPTER SKIRTS" FOR ALL SURFACE MOUNTED DEVICES. "SKIRTS" ARE NOT REQUIRED FOR SURFACE MOUNTED DEVICES INSTALLED IN MECHANICAL OR ELECTRICAL ROOMS.

GENERAL ELECTRICAL NOTES:

A. ALL WORK SHOWN IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE NOTED.
B. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND NATIONAL FIRE ALARM CODE (NFPA 72) AS ADOPTED BY THE STATE INCLUDING ALL AMENDMENTS.
C. THIS CONTRACTOR SHALL REVIEW THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS AND INCLUDE WORK FROM OTHER DIVISIONS THAT AFFECT HIS WORK IN HIS BID.
D. CONTRACTOR SHALL VISIT PROJECT SITE, PRIOR TO BIDDING, TO REVIEW EXISTING ELECTRICAL, SECURITY, AND FIRE ALARM CONDITIONS. NOT ALL EXISTING ELECTRICAL EQUIPMENT, WIRING DEVICES AND RACEWAYS ARE SHOWN.
E. EACH CONTRACTOR SHALL FIELD VERIFY ALL EXISTING APPLICABLE CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS, AS PERTAINS TO THE INTENT OF THESE DRAWINGS. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER AND DESIGNER ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY OR RELATED TO SUCH DISCREPANCY. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH OR CAUSED BY THAT CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
F. COORDINATE ALL WORK WITH OWNER, SO AS TO NOT CAUSE DISRUPTION OF OWNER'S STAFF.
G. WORK IN OFFICES, LABS, ETC., WILL REQUIRE THE PROTECTION (COVERING) OF FURNISHINGS AND ELECTRICAL/ELECTRONIC EQUIPMENT. DO NOT USE PLASTIC TO COVER COMPUTERS AND ELECTRONIC EQUIPMENT AT ANY TIME. CLOTH COVERS ARE ACCEPTABLE.
H. POWER, SECURITY, AND FIRE ALARM INTERRUPTIONS MUST BE PROPERLY PURSUED TO REDUCE INCONVENIENCE TO THE NORMAL BUILDING ACTIVITY TO A MINIMUM. ARRANGEMENTS FOR INTERRUPTION OF ELECTRICAL SERVICE TO AREAS MUST BE MADE IN WRITING WITH THE SUPERINTENDENT AND PROJECT MANAGER AT LEAST ONE WEEK BEFORE THE PROPOSED INTERRUPTIONS.
I. DEMOLITION SHALL BE PERFORMED TO MINIMIZE DAMAGE TO ADJACENT RETAINED WORK. WHERE SUCH DAMAGE OCCURS, PATCH, REPAIR OR OTHERWISE RESTORE TO ITS ORIGINAL CONDITION.
J. WHERE DEMOLITION WORK LEAVES HOLES AND DAMAGED SURFACE THAT WILL BE EXPOSED IN FINISHED WORK OR THROUGH A FIRE SEPARATION, THESE HOLES AND DAMAGED SURFACES SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT FINISHED SURFACE.
K. CONTRACTOR SHALL INCLUDE IN HIS BID THE REMOVAL AND PROPER DISPOSAL OF ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED. HOWEVER, THE OWNER HAS THE FIRST RIGHT TO REFUSAL OF ALL EXISTING ELECTRICAL EQUIPMENT.
L. FOR ALL REMOVED OUTLETS, EQUIPMENT, SECURITY, AND FIRE ALARM, REMOVE ALL EXISTING RACEWAY AND WIRING TO SOURCE OR FIRST ACTIVE TO REMAIN JUNCTION BOX.
M. MAINTAIN SERVICE CONTINUITY TO ALL EXISTING LOADS THAT ARE TO REMAIN BY MODIFYING AND/OR EXTENDING CONDUIT AND WIRING AS REQUIRED. FIELD VERIFICATION OF EXISTING CONDUIT RUNS AND CIRCUITRY IS TO BE DONE AS REQUIRED. THIS INCLUDES, BUT IS NOT LIMITED TO RECEPTACLES, OVERHEAD POWER DROPS, DISCONNECTS, LIGHTING, AND WIRING TO FUME HOODS AND MECHANICAL EQUIPMENT.
N. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL CUTTING AND PATCHING REQUIRED FOR THE ELECTRICAL, SECURITY, AND FIRE ALARM INSTALLATION SHALL BE PERFORMED BY THE APPROPRIATE TRADE AND PAID FOR BY THIS CONTRACTOR. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARCHITECTURAL DETAILS/NOTES.
O. RELOCATED/REINSTALLED ITEMS SHALL BE CLEANED AND PLACED IN STORAGE UNTIL ITEMS ARE READY TO BE REINSTALLED. IF ITEM IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED WITH NEW ITEM AS APPROVED.
P. ALL FIRESTOPPING SHALL BE PROVIDED UNDER DIVISION 07 OR DIVISION 26, "FIRESTOPPING".
Q. VERIFY EXACT LOCATION OF OUTLETS ABOVE COUNTERS, IN CASEWORK OR EQUIPMENT PRIOR TO ROUGH IN.
R. COORDINATE INSTALLATION OF DEVICES AND WIRING WITH LIGHTING, HVAC, PIPING, AND STRUCTURAL MEMBERS.
S. EMERGENCY LIGHTING FIXTURES - TEST SWITCH AND INDICATOR LAMP ARE TO BE LOCATED IN A READILY VISIBLE LOCATION. IF INSTALLATION INSTRUCTIONS BY MANUFACTURER DO NOT ALLOW FOR THIS. MOUNT SWITCH AND LAMP IN SINGLE GANG BOX FLUSH MOUNTED IN CEILING TILE ADJACENT TO FIXTURE. BODINE SELLS A COVER-PLATE FOR THIS PURPOSE. FLEX CONDUIT CAN BE USED BETWEEN FIXTURE AND BOX.
T. GFCI CIRCUIT SHALL BE INSTALLED SUCH THAT GFCI RECEPTACLE SHALL ONLY TRIP ITSELF AND DOES NOT TRIP OR DISCONNECT POWER ON ANY OTHER RECEPTACLE.
U. LOW-VOLTAGE CONDUIT (NOT INCLUDING TELECOMMUNICATIONS, "T" SERIES DRAWINGS) SHALL NOT CONTAIN MORE THAN 270° IN BENDS BETWEEN FLOOR BOXES, PROJECTOR BOXES, CAMERA BOXES, A/V EQUIPMENT RACKS, FIRE ALARM DEVICE BOXES, FIRE ALARM PANELS, SECURITY DEVICE BOXES, AND SECURITY PANELS. PROVIDE PULL BOXES IN RACEWAYS THAT CONTAIN MORE THAN 270° IN BENDS. PROVIDE A MINIMUM OF ONE (1) PULL BOX FOR EVERY 100 FEET OF RACEWAY.
V. CONTRACTOR SHALL PROVIDE MINIMUM 200 LB TENSION PULL STRING IN ALL EMPTY/FUTURE USE RACEWAYS.
W. ALL CONDUIT ROUTED IN AND THROUGH CONCRETE AND/OR BUILDING STRUCTURAL WALLS SHALL BE RIGID METAL CONDUIT, UNLESS OTHERWISE NOTED.
X. SURFACE RACEWAY USED SHALL BE PAINTED TO MATCH THE WALLS.
Y. WHEN NEW WALL AND FLOOR FINISHES ARE SHOWN, REMOVE ALL COVERPLATES AND REINSTALL AFTER NEW FINISHES HAVE BEEN COMPLETED.
Z. TURN OVER ALL KEYS TO OWNER AT COMPLETION OF PROJECT.
AA. FIRE STOP ALL WALL AND FLOOR PENETRATIONS WHETHER SURFACE IS RATED OR NOT.
BB. DEVICE LOCATIONS AND RACEWAY ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO STARTING CONSTRUCTION.
CC. ALL CIRCUITS SHALL CONSIST OF 3/4"C, 2-#12 & #12 GND UNLESS OTHERWISE NOTED.
DD. ALL DEVICES AND PLATES WITHIN ALL SCOPE AREAS SHALL BE NEW.

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PROFESSIONAL SEAL:
RACHEL COCHRAN — REGISTERED — No. PE11600436 — STATE OF INDIANA — PROFESSIONAL ENGINEER
Rachel E Cochran

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	JKW	DJJ

DRAWING TITLE: ELECTRICAL SYMBOLS AND ABBREVIATIONS

SHEET NUMBER: E001

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GENERAL NOTES:

A. REFER TO SHEET E001 FOR ADDITIONAL INFORMATION.
B. ANY CIRCUITS REMOVED DURING DEMOLITION THAT ARE NOT USED DURING NEW WORK SHALL HAVE THEIR PANEL CIRCUIT INDEX IDENTIFICATION UPDATED TO 'SPARE' BY EC.

DEMOLITION NOTES:

1. LIGHTING: DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. EXISTING WIRING SHALL REMAIN FOR EXTENSION TO NEW FIXTURES LOCATION.
2. FA DEVICES: REMOVE EXISTING FIRE ALARM DEVICE FOR REINSTALLATION IN NEW WORK. PROTECT DEVICE DURING DEMOLITION.
3. WATER SOFTENER: DISCONNECT EXISTING WATER SOFTENER. REMOVE EXISTING RECEPTACLE AT THIS LOCATION. EXISTING BACKBOX AND CIRCUIT MAY REMAIN FOR RECONNECTION TO NEW RECEPTACLE IN NEW WORK.
4. LIGHTING CONTROL: REMOVE EXISTING LIGHTING CONTROL AT THIS LOCATION. CONTROL WIRING SHALL REMAIN FOR EXTENSION TO NEW SWITCH IN NEW WORK.
5. CONDENSING UNIT: DISCONNECT EXISTING FEED TO CONDENSING UNIT AND REMOVE COMPLETELY BACK TO SOURCE.
6. EXISTING SMOKE DETECTOR: REMOVE EXISTING SMOKE DETECTOR TO BE REINSTALLED IN NEW WORK. DEVICE SHALL BE PROTECTED AND STORED DURING DEMOLITION.
7. CEILING FAN: DISCONNECT EXISTING CEILING FAN. REMOVE WIRING BACK TO NEAREST EXISTING TO REMAIN JUNCTION BOX. EXISTING CIRCUIT SHALL REMAIN FOR EXTENSION TO NEW FAN LOCATION.
8. DECONTAMINATION RECEPTACLE: DISCONNECT EXISTING RECEPTACLE AND REMOVE WIRING BACK TO NEAREST ACTIVE TO REMAIN JUNCTION BOX. EXISTING CIRCUIT SHALL REMAIN FOR USE IN NEW WORK.
9. EXHAUST FAN: DISCONNECT EXISTING EXHAUST FAN FOR RECONNECTION IN NEW WORK. EXISTING CIRCUIT SHALL REMAIN FOR RECONNECTION TO REINSTALLED FAN IN NEW WORK.
10. MECHANICAL UNIT: DISCONNECT EXISTING UNIT. REMOVE EXISTING CIRCUIT COMPLETELY BACK TO SOURCE.



FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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RACHEL COCHRAN REGISTERED No. PE11600436 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	JKW	DJJ

DRAWING TITLE: FIRST FLOOR ELECTRICAL DEMOLITION FLOOR PLAN

SHEET NUMBER: E101

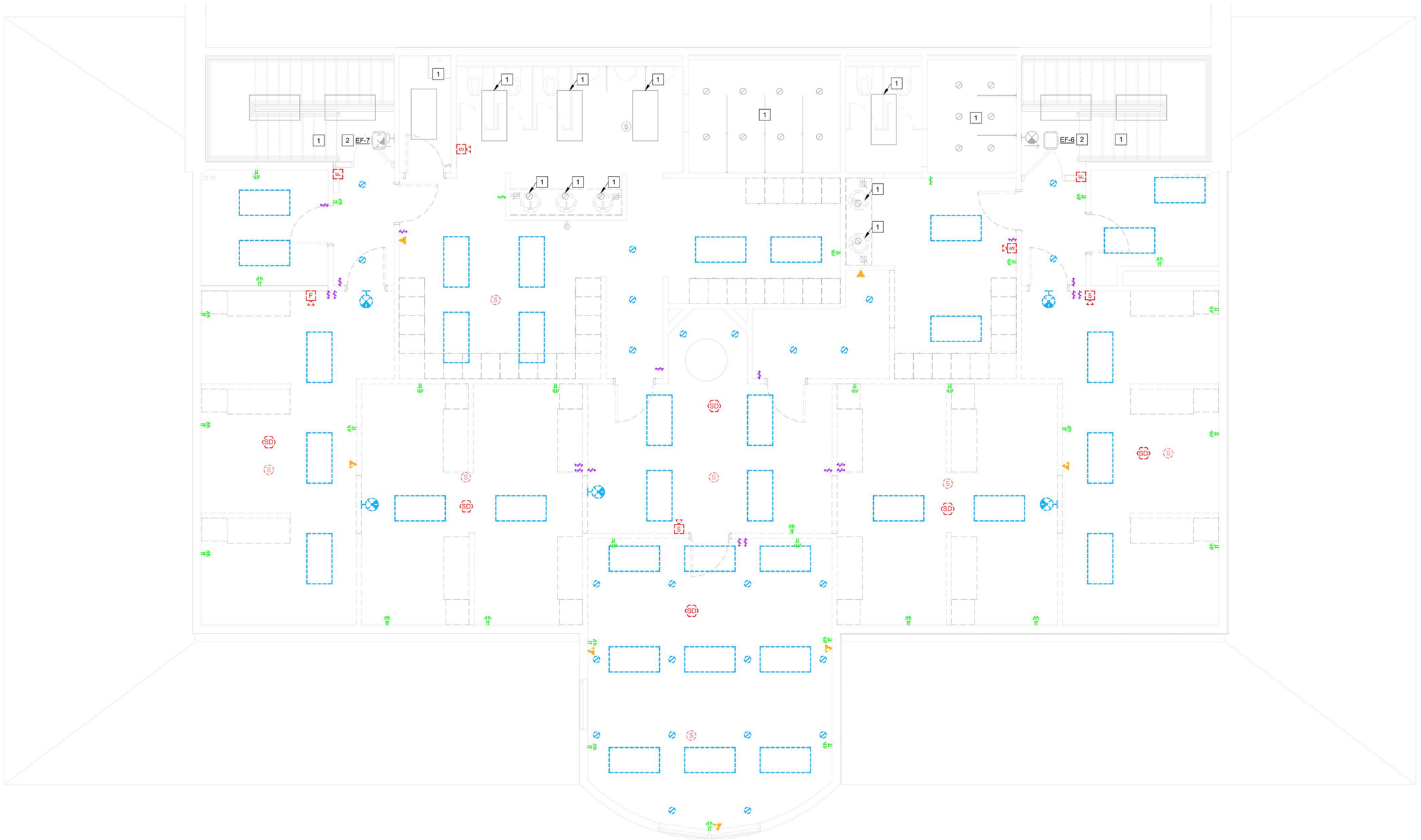
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GENERAL NOTES:

A. REFER TO SHEET E001 FOR ADDITIONAL INFORMATION.
B. EXCEPT WHERE OTHERWISE NOTED OR SHOWN, DISCONNECT POWER TO ALL ELECTRICAL EQUIPMENT AND DEVICES WITHIN PROJECT AREA FOR GENERAL DEMOLITION AND REMOVAL BY THE GC. REMOVE ALL ABANDONED RACEWAYS AND BOXES IN THIS AREA.
C. ANY CIRCUITS REMOVED DURING DEMOLITION THAT ARE NOT USED DURING NEW WORK SHALL HAVE THEIR NAMES UPDATED TO 'SPARE' BY EC.
D. DEVICES WITHIN SCOPE AREA: ALL RECEPTACLES AND ALL DEVICES WITHIN PROJECT AREA SHALL BE NEW AT COMPLETION OF THIS PROJECT. EXISTING ROUGH-INS THAT ARE NEW IN THE SAME LOCATION AS WHERE SHOWN 'NEW' MAY BE RE-USED AS WELL AS BRANCH CIRCUIT WIRING AS LONG AS IT IS IN GOOD CONDITION AND MEETS CODE. NO CIRCUIT LOADINGS SHALL BE GREATER THAN 1140W AS CALCULATED BY THE NEC. ADDITIONALLY, IF ANY CIRCUIT OR DEVICE IS SHOWN HERE WITH LESS LOADING OR INDICATED AS A DEDICATED CIRCUIT, THIS MORE STRINGENT LOADING SHALL BE FOLLOWED.

DEMOLITION NOTES:

1. EXISTING LIGHTING: LIGHTING FIXTURES IN THIS AREA ARE EXISTING TO REMAIN. ENSURE THAT LIGHTING CONTROLS TO FIXTURE SHOWN ARE PROTECTED DURING DEMOLITION. LIGHTING CONTROLS LOCATED WITHIN SCOPE OF WORK THAT CONTROL FIXTURES OUTSIDE OF SCOPE OF WORK SHALL BE PRESERVED AND REINSTALLED AT NEW LOCATION. FIXTURES SHALL BE CLEANED AT COMPLETION OF PROJECT.
2. EXHAUST FAN: DISCONNECT EXISTING EXHAUST FAN FOR RECONNECTION IN NEW WORK. EXISTING CIRCUIT SHALL REMAIN FOR RECONNECTION TO REINSTALLED FAN IN NEW WORK.



SECOND FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:
RACHEL COCHRAN REGISTERED No. PE11600436 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	JKW	DJJ

DRAWING TITLE: SECOND FLOOR ELECTRICAL DEMOLITION FLOOR PLAN

SHEET NUMBER: E102

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GENERAL NOTES:

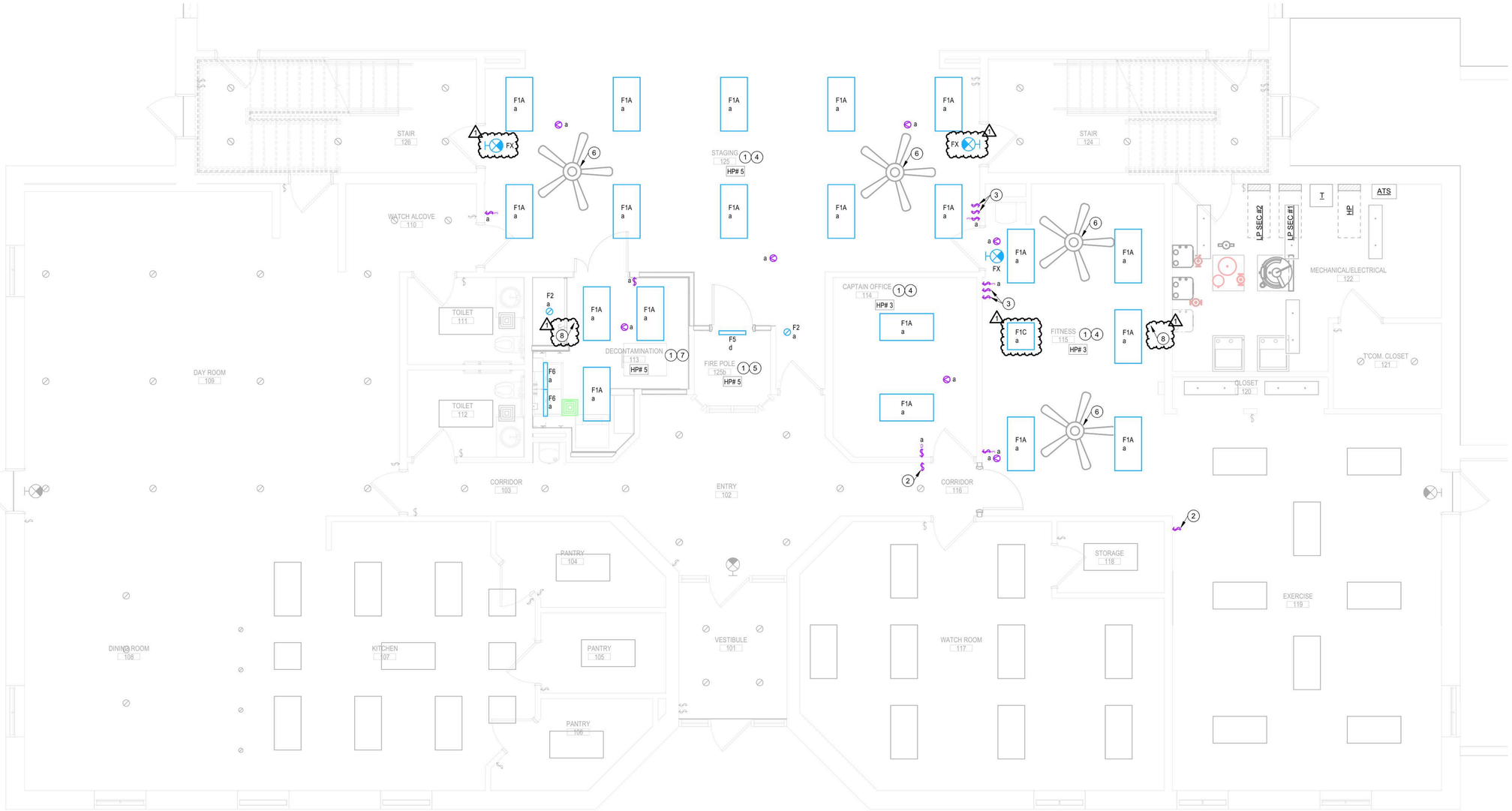
A. SEE SHEET E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
B. ALL LIGHTING FIXTURES SHALL BE CIRCUITED TO ROOM CIRCUIT NUMBER SHOWN UNLESS OTHERWISE NOTED.
C. LIGHTING CIRCUITS SHOWN ARE BASED ON HISTORICAL DOCUMENTS, FIELD NOTES AND GENERAL OBSERVATIONS AND SHOULD BE FIELD VERIFIED BY CONTRACTOR.
D. DIMMING LEVEL: DIMMABLE LIGHTING CONTROLS SHALL DEFAULT TO 50% WHEN TURNED ON.

LOCUTION NOTES:

A. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION DEVICE LAYOUT AND SCOPE. PROVIDE JUNCTION BOX AND CONDUIT STUBBED UP TO ACCESSIBLE CEILING AT LOCATIONS INDICATED.

(#) PLAN NOTES:

1. CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA. EXISTING LIGHTING CIRCUIT INDICATED ON FLOOR PLAN
2. LIGHTING CONTROL: RELOCATE EXISTING LIGHTING CONTROL DEVICE TO NEW LOCATION.
3. CEILING FAN CONTROL: PROVIDE F3 SPEED CONTROL AND REVERSE CEILING FAN CONTROL MOUNTED ADJACENT TO LIGHTING CONTROLS.
4. VACANCY CONTROL: LIGHTING FIXTURES IN THIS AREA SHALL OPERATE VIA VACANCY CONTROL. UPON ENTERING THE SPACE THE LIGHTS SHALL ONLY COME 'ON' AFTER CHANGE OF STATE OF THE SWITCH. LIGHTS SHALL AUTOMATICALLY GO 'OFF' AFTER 30 MINUTES OF VACATING ROOM.
5. POLE AREA OCCUPANCY SENSOR: FIXTURE TO BE CONTROLLED BY OCCUPANCY SENSOR ON SECOND FLOOR FIRE POLE ROOM. SEE SHEET E302 FOR OCCUPANCY SENSOR LOCATION AND SWITCH LEG.
6. CEILING FAN: PROVIDE KICHLER LUCIAN II 52" CEILING FAN. FAN FINISH SHALL BE SELECTED UPON OWNER REVIEW. EXTEND CIRCUIT MADE AVAILABLE DURING DEMOLITION TO NEW CEILING FAN.
7. OCCUPANCY CONTROL: LIGHTING FIXTURES IN THIS AREA SHALL OPERATE VIA OCCUPANCY CONTROL. UPON ENTERING THE SPACE THE LIGHTS SHALL COME 'ON' AND SHOULD GO 'OFF' 30 MINUTES AFTER LEAVING.
8. LOCUTION FIXTURE: LOCUTION FIXTURE TO BE INSTALLED AT THIS LOCATION. LOCATION SHOWN FOR REFERENCE ONLY. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION LIGHTING FIXTURE LAYOUT AND SCOPE.



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

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PROFESSIONAL SEAL:
RACHEL COCHRAN REGISTERED No. PE11600436 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

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1	Pre-bid Changes		08/14/26

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE: FIRST FLOOR LIGHTING FLOOR PLAN

SHEET NUMBER: E301

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GENERAL NOTES:

A. SEE SHEET E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
B. ALL LIGHTING FIXTURES SHALL BE CIRCUITED TO ROOM CIRCUIT NUMBER SHOWN UNLESS OTHERWISE NOTED.
C. EXISTING LIGHTING FIXTURES WITHIN SCOPE OF WORK SHALL BE CIRCUITED TO ROOM TAG INDICATED ON FLOOR PLAN.
D. EMERGENCY EGRESS LIGHTING: EMERGENCY EGRESS LIGHTING IS PROVIDED BY NFPA APPROVED 90 MINUTE EMERGENCY BATTERY UNIT TO POWER EM LIGHTING UPON POWER LOSS. BATTERY AND TEST SWITCH LOCATED IN MECHANICAL 031.
E. DIMMING LEVEL: DIMMABLE LIGHTING CONTROLS SHALL DEFAULT TO 50% WHEN TURNED ON.

LOCUTION NOTES:

A. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION DEVICE LAYOUT AND SCOPE. PROVIDE JUNCTION BOX AND CONDUIT STUBBED UP TO ACCESSIBLE CEILING AT LOCATIONS INDICATED.

(#) PLAN NOTES:

1. OCCUPANCY CONTROL: LIGHTING FIXTURES IN THIS AREA SHALL OPERATE VIA OCCUPANCY CONTROL. UPON ENTERING THE SPACE THE LIGHTS SHALL COME 'ON' AND SHOULD GO 'OFF' 30 MINUTES AFTER LEAVING.
2. VACANCY CONTROL: LIGHTING FIXTURES IN THIS AREA SHALL OPERATE VIA VACANCY CONTROL. UPON ENTERING THE SPACE THE LIGHTS SHALL ONLY COME 'ON' AFTER CHANGE OF STATE OF THE SWITCH. LIGHTS SHALL AUTOMATICALLY GO 'OFF' AFTER 30 MINUTES OF VACATING ROOM.
3. LOCUTION FIXTURE: LOCUTION FIXTURE TO BE INSTALLED AT THIS LOCATION. LOCATION SHOWN FOR REFERENCE ONLY. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION LIGHTING FIXTURE LAYOUT AND SCOPE. LOCUTION ROOM CONTROL PANEL INDICATED ON FLOOR PLAN.
4. LOCUTION CONTROL PANEL LOCATION: PANEL SHOWN FOR REFERENCE ONLY. FINAL PANEL LOCATION AND ALL FINAL CONNECTIONS BY LOCUTION CONTRACTOR. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR ADDITIONAL INFORMATION.
5. POLE OCCUPANCY SENSOR: TIE OCCUPANCY SENSOR TO LIGHT BELOW ON FIRST FLOOR FIRE POLE ROOM. SET AUTOMATIC 'OFF' TIME DELAY TO 10 MINUTES. COORDINATE OCCUPANCY SENSOR MOUNTING LOCATION WITH POLE ENTRANCE.
6. LIGHTING INVERTER: MOUNT LIGHTING INVERTER HIGH ON WALL. PROVIDED DEDICATED CIRCUIT FOR INVERTER. CIRCUIT INDICATED ON FLOOR PLAN. PROVIDE EQUIPMENT LABEL AND CIRCUIT ID LABEL. PROVIDE LABEL ON MOMENTARY SWITCH LABELED "TEST OF EGRESS". DEDICATED INVERTER CIRCUIT SHALL SERVE ALL F4 FIXTURES. SEE DETAIL 6 ON SHEET E501 FOR ADDITIONAL INFORMATION.
7. BUNK ROOM SWITCH MOUNTING: SEE DETAIL 9 ON SHEET E501 FOR BUNK ROOM SWITCH MOUNTING ORIENTATION. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



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

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PROFESSIONAL SEAL:

RACHEL COCHRAN
REGISTERED
No. PE11600436
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

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1	Pre-bid Changes		08/14/26

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	JKW	DJJ

DRAWING TITLE:
SECOND FLOOR LIGHTING FLOOR PLAN

SHEET NUMBER:
E302

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GENERAL NOTES:

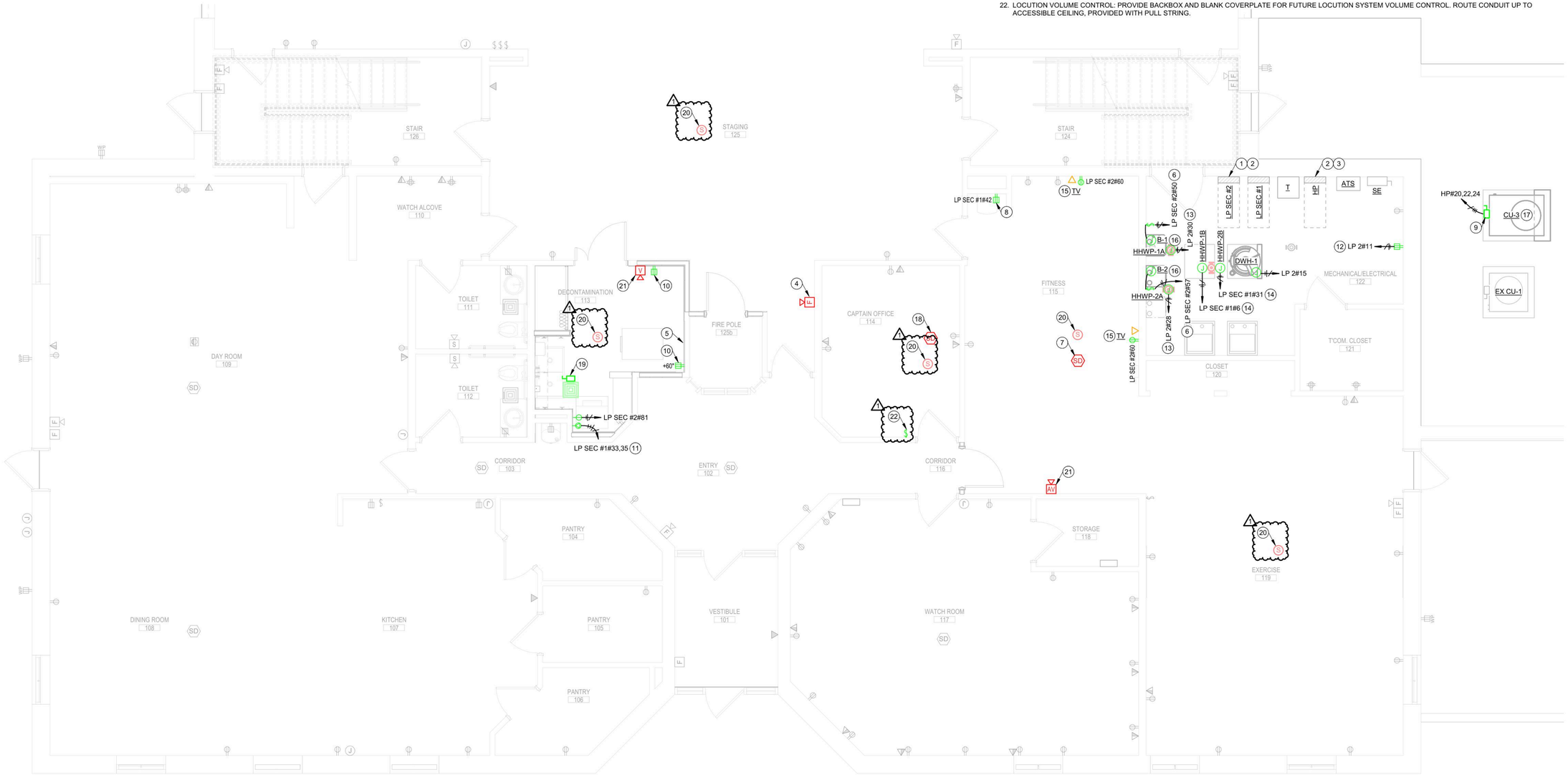
A. SEE SHEET E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

LOCUTION NOTES:

A. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION DEVICE LAYOUT AND SCOPE. PROVIDE JUNCTION BOX AND CONDUIT STUBBED UP TO ACCESSIBLE CEILING AT LOCATIONS INDICATED.

(#) PLAN NOTES:

1. SUB-PANEL "LP" BREAKER: PROVIDE 3P-100A BREAKER TO SERVE NEW SUB-PANEL ON SECOND FLOOR. TURN OVER EXISTING BREAKERS TO OWNER. REFER TO SHEETS E601 AND E701 FOR ADDITIONAL INFORMATION.
2. PANEL INDEX: PROVIDE NEW TYPEWRITTEN PANEL CARD WITH NEW LOAD NAMES.
3. SUB-PANEL "HP" BREAKER: PROVIDE 3P-40A BREAKER TO SERVE NEW SUB-PANEL ON SECOND FLOOR. TURN OVER EXISTING BREAKERS TO OWNER. REFER TO SHEETS E601 AND E701 FOR ADDITIONAL INFORMATION.
4. FA DEVICE: REINSTALL EXISTING FIRE ALARM DEVICE AT LOCATION SHOWN. EXTEND EXISTING FIRE ALARM CIRCUIT TO RELOCATED DEVICE.
5. FUTURE EXTRACTOR: PROVIDE 1" CONDUIT WITH PULL STRING FROM ELECTRICAL ROOM TO ABOVE ACCESSIBLE CEILING AT THIS LOCATION FOR FUTURE EXTRACTOR. TERMINATE CONDUIT IN ELECTRICAL ROOM ABOVE PANEL HP. PROVIDE IDENTIFICATION LABELS.
6. BOILER: PROVIDE ELECTRICAL CONNECTION TO NEW BOILER. PROVIDE 20A-1P MOTOR RATED TOGGLE SWITCH WITH LOCK-OUT HASP.
7. SMOKE DETECTOR: REINSTALL EXISTING SMOKE DETECTOR AT THIS LOCATION. EXTEND EXISTING SYSTEM WIRING TO NEW DEVICE LOCATION.
8. WATER COOLER: PROVIDE NEW GFCI RECEPTACLE TO SERVE NEW WATER COOLER. RECEPTACLE SHALL BE LOCATED SO THAT THE RECEPTACLE IS ACCESSIBLE FOLLOWING WATER COOLER INSTALLATION.
9. CONDENSING UNIT: PROVIDE 30A FUSIBLE NEMA 3R DISCONNECT TO SERVE NEW UNIT. MOUNT DISCONNECT ON UNISTRUT STAND. FUSES SHALL BE SIZED ACCORDING TO APPROVED MECHANICAL SUBMITTAL. PROVIDE (3) #10 AWG, #12GND - .75"C.
10. DECONTAMINATION RECEPTACLE: EXTEND EXISTING CIRCUIT IN THIS AREA MADE AVAILABLE DURING DEMOLITION TO NEW RECEPTACLE.
11. WASHER / DRYER: PROVIDE NEMA 14-30 RECEPTACLE FOR STACKABLE WASHER AND DRYER AT THIS LOCATION.
12. WATER SOFTENER: PROVIDE GFCI RECEPTACLE FOR NEW WATER SOFTENER. PROVIDE "SO" CORD AND PLUG ASSEMBLY FOR WATER SOFTENER.
13. HHWP-1A / HHWP-2A: PROVIDE ELECTRICAL CONNECTION TO NEW PUMP. DISCONNECT PROVIDED BY MANUFACTURER.
14. HHWP-1B / HHWP-2B: PROVIDE ELECTRICAL CONNECTION TO NEW PUMP. DISCONNECT PROVIDED BY MANUFACTURER. PUMPS ARE STACKED VERTICALLY.
15. TV BOX: BACKBOX SHALL BE INSTALLED BY EC. FINAL LOOK TO BE FLUSH WITH WALL. TV TO BE MOUNTED AT 5'-0" AFF. COORDINATE EXACT TV LOCATION WITH ARCHITECT PRIOR TO ROUGH IN. PROVIDE DEVICE ROUGH IN AND CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING. EXISTING IT ROOM LOCATED IN MECHANICAL/ELECTRICAL 122. DATA JACK CABLE AND DEVICE FACE PLATE PROVIDED BY DIV 27. REFER TO TELECOM DRAWINGS AND DETAIL 5 ON SHEET E501 FOR ADDITIONAL INFORMATION.
16. BOILER AND HEATING WATER PUMP CONTROL WIRING: CONTROL WIRING SHALL BE PROVIDED BY EC TO THE BOILERS, PRIMARY PUMPS, AND SECONDARY PUMPS. REFER TO HEATING HOT WATER SCHEMATIC & CONTROLS DIAGRAM ON SHEET ME702 FOR ADDITIONAL INFORMATION, INCLUDING THE EC SCOPE.
17. CU-3 CONTROL WIRING: CONTROL WIRING SHALL BE PROVIDED BY EC. PROVIDE CONTROL WIRING BETWEEN AC-3 CONTROL IN MECHANICAL 031 TO CU-3. PROVIDE CONTROL WIRING FROM AC-3 CONTROLLER TO DUCT STATIC PRESSURE SENSOR. REFER TO DIAGRAM ON SHEET ME701 FOR ADDITIONAL INFORMATION. AC-3 IS LOCATED IN SECOND FLOOR MECHANICAL ROOM.
18. SMOKE DETECTOR (ALTERNATE): HONEYWELL SMOKE DETECTOR MODEL NUMBER 5193SD. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
19. EXHAUST FAN CONTROL. EXISTING EXHAUST FAN SHALL BE REWIRED TO RUN CONTINUOUSLY. PROVIDE BLANK COVER PLATE WITH EQUIPMENT IDENTIFICATION TAG ON EXISTING SWITCH BACKBOX. PROVIDE NEW UNIT MOUNTED DISCONNECT SWITCH.
20. SPEAKERS: NEW SPEAKERS PROVIDED BY NEW LOCUTION SYSTEM AND ARE SHOWN FOR REFERENCE ONLY. PROVIDE DEVICE TESTING FOLLOWING INSTALLATION.
21. FA NOTIFICATION DEVICE (ALTERNATE) : HORN STROBE MODEL NUMBER P2RLED BY SYSTEM SENSOR. STROBE MODEL NUMBER SRLED BY SYSTEM SENSOR. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
22. LOCUTION VOLUME CONTROL: PROVIDE BACKBOX AND BLANK COVERPLATE FOR FUTURE LOCUTION SYSTEM VOLUME CONTROL. ROUTE CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING.



FIRST FLOOR POWER AND SYSTEMS PLAN

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

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PROFESSIONAL SEAL:

RACHEL COCHRAN REGISTERED No. PE11600436 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	JKW	DJJ

DRAWING TITLE: FIRST FLOOR POWER AND SYSTEMS FLOOR PLAN

SHEET NUMBER: E311

GENERAL NOTES:

SEE SHEET E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

1 LOCUTION NOTES:

A. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION DEVICE LAYOUT AND SCOPE. PROVIDE JUNCTION BOX AND CONDUIT STUBBED UP TO ACCESSIBLE CEILING AT LOCATIONS INDICATED.

(#) PLAN NOTES:

1. SOUNDER BASE SMOKE DETECTOR (ALTERNATE): LOW FREQUENCY HORN STROBE MODEL NUMBER PC2RLED-LF BY SYSTEM SENSOR. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
2. TV BOX: BACKBOX SHALL BE INSTALLED BY EC. BOX SHALL BE FLUSH WITH WALL. TV TO BE MOUNTED AT 4'-0" AFF. COORDINATE EXACT TV BACK BOX LOCATION WITH ARCHITECT PRIOR TO ROUGH IN. SEE PLAN NOTE 9. REFER TO TELECOM DRAWINGS AND DETAIL 5 ON SHEET E501 FOR ADDITIONAL INFORMATION.
3. LOCUTION CONTROL PANEL: PROVIDE CIRCUIT INDICATED ON PLAN FOR CONNECTION TO LOCUTION CONTROL PANEL. CONTROL PANEL AND SYSTEM INTEGRATION BY LOCUTION CONTRACTOR.
4. WAP: DEVICE SHOWN FOR REFERENCE ONLY. REFER TO LOW VOLTAGE DRAWINGS FOR FULL SCOPE.
5. SPEAKERS: NEW SPEAKERS PROVIDED BY NEW LOCUTION SYSTEM AND ARE SHOWN FOR REFERENCE ONLY. PROVIDE DEVICE TESTING FOLLOWING INSTALLATION.
6. EXHAUST FAN CONTROL. EXISTING EXHAUST FAN SHALL BE REWIRED TO RUN CONTINUOUSLY. PROVIDE BLANK COVER PLATE WITH EQUIPMENT IDENTIFICATION TAG ON EXISTING SWITCH BACKBOX. PROVIDE NEW UNIT MOUNTED DISCONNECT SWITCH.
7. ACCESS CONTROL: PROVIDE DEVICE ROUGH IN AND CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING. REFER TO TELECOM DRAWINGS FOR ADDITIONAL INFORMATION.
8. AC-3: PROVIDE 30A FUSED DISCONNECT TO SERVE NEW AHU. PROVIDE FUSES PER APPROVED MECHANICAL SUBMITTALS. PROVIDE (3) #10 AWG, #12GND - .75"C.
9. DATA ROUGH IN: PROVIDE DEVICE ROUGH IN AND CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING. EXISTING IT ROOM LOCATED IN MECHANICAL/ELECTRICAL 122. DATA JACK CABLE AND DEVICE FACE PLATE PROVIDED BY DIV 27. REFER TO TELECOM DRAWINGS FOR ADDITIONAL INFORMATION.
10. NAC PANEL (ALTERNATE): PROVIDE NEW NAC PANEL TO SERVE ALL NOTIFICATION DEVICES ON THIS FLOOR. CONTRACTOR SHALL ENSURE EXISTING AND NEW PANEL DEVICES ARE NOT OVERLOADING PANEL CAPACITY. NAC POWER SUPPLY MODEL NUMBER FL-PS6 BY HONEYWELL. PROVIDE DEDICATED CIRCUIT WITH RED LOCKABLE BREAKER. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
11. MECHANICAL VAV POWER SUPPLY: PROVIDE SIMPLEX RECEPTACLE FOR TERMINAL UNIT POWER SUPPLY LOCATED HIGH ON WALL. PROVIDE TERMINAL UNIT POWER SUPPLY DEVICE LABEL. PROVIDE AND CONNECT 'SO' CORD AND PLUG TO TRANSFORMER. LEAVE ONLY ENOUGH SLACK TO COMFORTABLY REACH OUTLET. PROVIDE DEDICATED 120V / 20A CIRCUIT TO SIMPLEX RECEPTACLE ADJACENT TO UNIT. REFER TO WIRING DIAGRAM ON SHEET E701 AND VAV TERMINAL UNIT CONTROL DIAGRAM ON ME701 FOR EC CONTROL WIRING SCOPE OF WORK. REFER TO SHEET M312 FOR VAV AND THERMOSTAT LOCATIONS.
12. DRYER: PROVIDE NEMA 14-30 RECEPTACLE FOR DRYER AT THIS LOCATION.
13. NL RECEPTACLE: PROVIDE GFCI RECEPTACLE WITH INTEGRAL NIGHT LIGHT AT THIS LOCATION.
14. FA NOTIFICATION DEVICE (ALTERNATE) : HORN STROBE MODEL NUMBER P2RLED BY SYSTEM SENSOR. STROBE MODEL NUMBER SRLED BY SYSTEM SENSOR. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
15. FA PULL STATION (ALTERNATE): HONEYWELL PULL STATION MODEL NUMBER 5140MPS-1. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
16. SMOKE DETECTOR (ALTERNATE): HONEYWELL SMOKE DETECTOR MODEL NUMBER 5193SD. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
17. LOCUTION VOLUME CONTROL: PROVIDE BACKBOX AND BLANK COVERPLATE FOR FUTURE LOCUTION SYSTEM VOLUME CONTROL. ROUTE CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING.
18. BUNK ROOM SWITCH MOUNTING: SEE DETAIL 9 ON SHEET E501 FOR BUNK ROOM SWITCH MOUNTING ORIENTATION. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
19. AIR HANDLER CONTROL WIRING: FIELD INSTALL CONTROL WIRING SHALL BE PROVIDED BY EC. PROVIDE CONTROL WIRING BETWEEN INDOOR AIR HANDLER AND OUTDOOR CONDENSING UNIT. PROVIDE CONTROL WIRING FROM AIR HANDLER CONTROLLER TO DUCT STATIC PRESSURE SENSOR. REFER TO AHU-3 AIR HANDLER FLOW/CONTROL DIAGRAM ON SHEET ME701 FOR ADDITIONAL INFORMATION.



SECOND FLOOR POWER AND SYSTEMS PLAN

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

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RACHEL COCHRAN REGISTERED No. PE11600436 STATE OF INDIANA PROFESSIONAL ENGINEER

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05/15/26	JKW	DJJ

DRAWING TITLE: SECOND FLOOR POWER AND SYSTEMS FLOOR PLAN

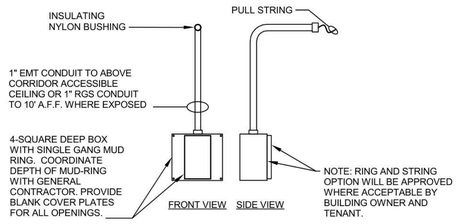
SHEET NUMBER: E312

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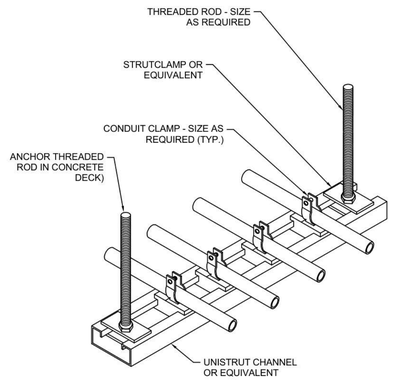


NOTES:
A. DEDICATED CIRCUIT TO PROVIDE EM EGRESS POWER TO ALL F4 FIXTURES. LIGHTS SHALL COME ON AUTOMATICALLY WITH AMBIENT LIGHT LEVELS IN THE AREA FALL BELOW 5 FC. IN THE EVENT OF A POWER OUTAGE, THE LIGHTS SHALL COME ON TO FULL BRIGHTNESS FOR A MINIMUM OF 90 MINUTES.
B. PROVIDE DEVICE IDENTIFICATION LABEL "TEST OF EGRESS LIGHTS" FOR MOMENTARY TOGGLE SWITCH.
C. PROVIDE INVERTER IDENTIFICATION LABEL AND CIRCUIT IDENTIFICATION LABEL.

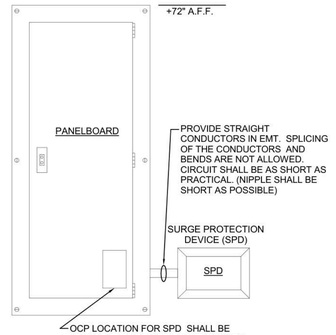
6 LIGHTING INVERTER DETAIL
SCALE: NONE



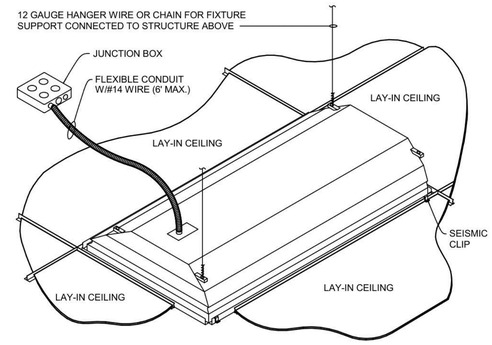
8 BOX ROUGH-IN DETAIL
SCALE: NONE



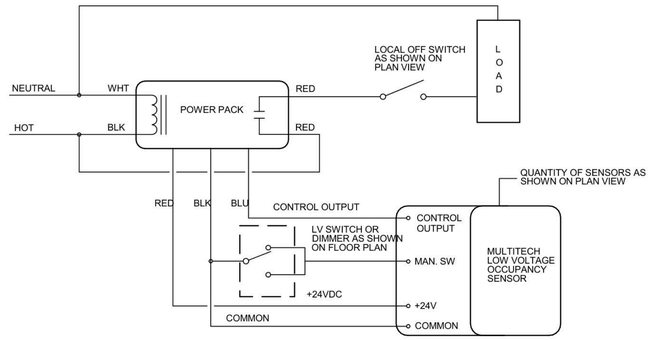
7 CONDUIT SUPPORT DETAIL - 2 IN AND SMALLER
SCALE: NONE



4 SURGE PROTECTION DEVICE
SCALE: NONE



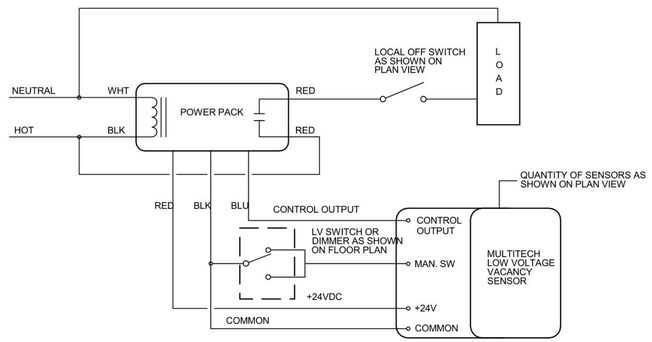
1 LAY-IN FIXTURE
SCALE: 12" = 1'-0"



SEQUENCE OF OPERATION:

1. LIGHTS SHALL TURN ON AUTOMATTICALLY UPON ENTERING SPACE. SWITCH SHALL TURN ON/OFF LIGHTS WITH MANUAL OVERRIDE. SENSOR SHALL TURN OFF LIGHTS AFTER 30 MIN OF INACTIVITY.

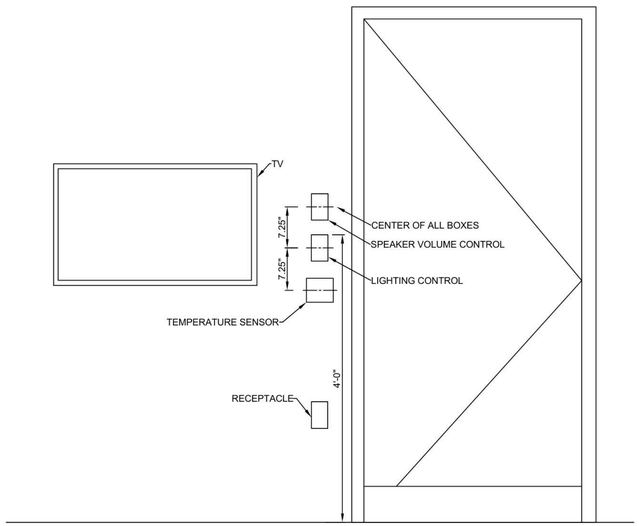
2 OCCUPANCY CONTROL WIRING DETAIL
SCALE: NONE



SEQUENCE OF OPERATION:

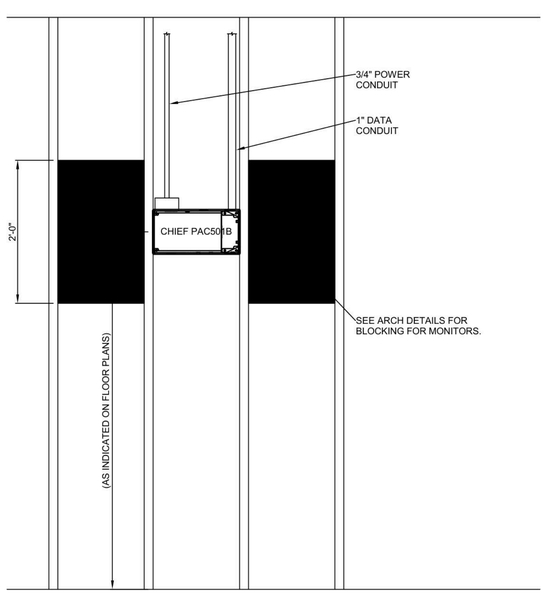
1. LIGHTS SHALL TURN ON ONLY UPON CHANGE OF SWITCH STATE. SENSOR SHALL TURN OFF LIGHTS AFTER 30 MIN OF INACTIVITY.

3 VACANCY CONTROL WIRING DETAIL
SCALE: NONE



NOTES:
A. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DEVICE LOCATIONS.

9 BUNK ROOM DEVICE ELEVATION DETAIL
SCALE: NONE



NOTES:
A. CHIEF MODEL # PAC501B IS THE BASIS OF DESIGN. MATCH COLOR OF WALL BOX COVER WITH DEVICE FACEPLATES IN DIV 26.

5 TV WALL BOX DETAIL
SCALE: NONE

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Carmel Fire Station No. 42
3610 West 106th Street
Carmel, Indiana 46032

Carmel Fire Department
210 Veterans Wy,
Carmel, IN 46032

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PROFESSIONAL SEAL:
RACHEL COCHRAN REGISTERED No. PE11600436 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	JKW	DJJ

DRAWING TITLE: ELECTRICAL DETAILS

SHEET NUMBER: E501

Autodesk Docs://250060 - Carmel Fire Station 42\&46\25-150_Carmel Fire Station 42_MEP2024.rvt
5/15/2026 9:42:21 AM

PANELBOARD SCHEDULE

Branch Panel Name:	LP 2	**New/Exist:**	NEW	**Location:**	MECHANICAL 031	**Project Name:**	Carmel Fire Station No. 42				
SPD:	YES	**Main:**	MCB	**Mounting:**	Surface	**Project No.**	25-150				
Voltage	208Y/120V	**Amp:**	100 A	**Kaic Rating:**	10KAIC	**Date**	05/15/26				
Feed From:	LP SEC #2	**Enclosure:**	Type 1	**Feeder:**	SEE ONE LINE		Applied Engineering Services (317) 810-4141				

Ckt	Load Name	Pole	Rating	Type	Load Class	A		B		C		Load Class	Type	Rating	Pole	Load Name	Ckt
1	RECEPT ROOMS 007, 008	1	20 A		Receptacle	1.08	0.54					Receptacle		20 A	1	RECEPT ROOMS 033, 029	2
3	RECEPT ROOMS 006, 033	1	20 A		Receptacle			1.08	1.08			Receptacle		20 A	1	RECEPT QUIET ROOM 030	4
5	RECEPT ROOMS 010, 011	1	20 A		Receptacle					1.08	1.08	Receptacle		20 A	1	RECEPT ROOMS 005, 004	6
7	RECEPT ROOMS 010	1	20 A		Receptacle	1.08	0.36					Receptacle		20 A	1	RECEPT ROOMS 041, 028, 038, 035	8
9	RECEPT ROOMS 001, 026, 033	1	20 A		Receptacle			0.72	1.08			Receptacle		20 A	1	RECEPT ROOMS 002, 003	10
11	WATER SOFTENER	1	20 A		Receptacle					0.18	1.00	Receptacle		20 A	1	LOCUTION PANEL CORRIDOR 033	12
13	RECEPT ROOMS 001, 002	1	20 A		Receptacle	1.08	0.00					Power		20 A	1	NAC PANEL MECHANICAL 031	14
15	DWH-1	1	20 A		Receptacle			0.50	0.18			Power;...		20 A	1	VAV POWER-1	16
17	DRYER LAUNDRY 026	2	30 A		Receptacle					1.80	0.18	Power;...		20 A	1	VAV POWER-2	18
19						1.80	0.18					Power;...		20 A	1	VAV POWER-3	20
21	DRYER LAUNDRY 026	2	30 A		Receptacle			1.80	1.80			Receptacle		20 A	1	WASHER LAUNDRY 026	22
23										1.80	1.80	Receptacle		20 A	1	WASHER LAUNDRY 026	24
25	DRYER LAUNDRY 026	2	30 A		Receptacle	1.80	1.80					Receptacle		20 A	1	WASHER LAUNDRY 026	26
27								1.80	0.86			Other		20 A	1	HHWP-1A MECHANICAL/ELECTRICAL 122	28
29	FRIDGE, RECEPT MOTHER'S ROOM 029	1	20 A		Receptacle					0.36	0.86	Other		20 A	1	HHWP-2A MECHANICAL/ELECTRICAL 122	30
31	RECEPT ROOMS 028, 033	1	20 A		Receptacle	0.54	0.00					--		20 A	1	Spare	32
33	Spare	1	20 A		--			0.00	0.00			--		20 A	1	Spare	34
35	Spare	1	20 A		--					0.00	0.00	--		20 A	1	Spare	36
37	Space	1	--		--	--	--					--		--	1	Space	38
39	Space	1	--		--			--	--			--		--	1	Space	40
41	Space	1	--		--					--	--	--		--	1	Space	42
						10.26 kVA		**10.9 kVA**		**10.1 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)				Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)	29.58	NEC	19.79	Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	1.73	0.80	1.38		
Total Load (KVA)	31.31		21.17		

PANELBOARD SCHEDULE

Branch Panel Name:	HP	**New/Exist:**	EXIST	**Location:**	MECHANICAL/ELECTRICAL 122	**Project Name:**	Carmel Fire Station No. 42				
SPD:	NO	**Main:**	MCB	**Mounting:**	Surface	**Project No.**	25-150				
Voltage	480Y/277V	**Amp:**	400 A	**Kaic Rating:**	25KAIC	**Date**	05/15/26				
Feed From:		**Enclosure:**	Type 1	**Feeder:**	SEE ONE LINE		Applied Engineering Services (317) 810-4141				

Ckt	Load Name	Pole	Rating	Type	Load Class	A (KVA)		B (KVA)		C (KVA)		Load Class	Type	Rating	Pole	Load Name	Ckt
1	EX. LIGHTING	1	20 A		--	0.00	0.00										2
3	EX. LIGHTING	1	20 A		Lighting			0.36	0.00			--		100 A	3	EX. TRANSFORMER	4
5	EX. LIGHTING	1	20 A		Lighting					0.58	0.00						6
7	EX. LIGHTING	1	20 A		--	0.00	0.00										8
9	EX. LIGHTING	1	20 A		--			0.00	0.00			--		20 A	3	EX. CONDENSING UNIT-CU1	10
11	EX. LIGHTING	1	20 A		--					0.00	0.00						12
13	EX. LIGHTING	1	20 A		--	0.00	0.00										14
15	**Spare**	1	20 A		--			0.00	0.00			--		20 A	3	EX. CONDENSING UNIT-CU2	16
17	**Spare**	1	20 A		--					0.00	0.00						18
19	EX. SPARE	1	20 A		--	0.00	4.66										20
21	EX. SPARE	1	20 A		--			0.00	4.66			Other		25 A	3	**CU-3**	22
23	EX. SPARE	1	20 A		--					0.00	4.66						24
25	EX. SPARE	1	20 A		--	0.00	0.00										26
27	EX. SPARE	1	20 A		--			0.00	0.00			--		20 A	3	**SPARE (FUTURE EXTRACTOR)**	28
29	EX. SPARE	1	20 A		--					0.00	0.00						30
31	EX. SPARE	1	20 A		--	0.00	0.00										32
33	EX. SPARE	1	20 A		--			0.00	0.00			--		20 A	3	EX. EXHAUST FANS - APPARATUS	34
35	EX. SPARE	1	20 A		--					0.00	0.00						36
37						2.72	0.00										38
39	**HP 2**	3	40 A		Other; Lighting; Spare			2.57	0.00			--		20 A	3	Spare	40
41										1.79	0.00						42
						7.37 kVA		**7.6 kVA**		**7.0 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)	2.73	1.00	2.73	Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)		NEC		Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	19.25	0.80	15.40		
Total Load (KVA)	21.98		18.13		

PANELBOARD SCHEDULE

Branch Panel Name:	HP 2	**New/Exist:**	NEW	**Location:**	MECHANICAL 031	**Project Name:**	Carmel Fire Station No. 42				
SPD:	YES	**Main:**	MCB	**Mounting:**	Surface	**Project No.**	25-150				
Voltage	480Y/277V	**Amp:**	40 A	**Kaic Rating:**	25 KAIC	**Date**	05/15/26				
Feed From:	HP	**Enclosure:**	Type 1	**Feeder:**	SEE ONE LINE		Applied Engineering Services (317) 810-4141				

Ckt	Load Name	Pole	Rating	Type	Load Class	A (KVA)		B (KVA)		C (KVA)		Load Class	Type	Rating	Pole	Load Name	Ckt
1						1.76	0.00										2
3	ACC-3	3	15 A		Other			1.76	0.00			--		20 A	3	Spare	4
5										1.76	0.00						6
7	LIGHTING COORIDOR, RESTROOMS	1	20 A		Lighting	0.95	0.00										8
9	LIGHTING SLEEPING ROOMS	1	20 A		Lighting			0.80	0.00			--		20 A	3	Spare	10
11	LIGHTING INVERTER MECHANICAL 031	1	20 A		Lighting					0.03	0.00						12
13	Spare	1	20 A		--	0.00	0.00					--		20 A	1	Spare	14
15	Spare	1	20 A		--			0.00	0.00			--		20 A	1	Spare	16
17	Spare	1	20 A		--					0.00	0.00	--		20 A	1	Spare	18
19	Spare	1	20 A		--	0.00	0.00					--		20 A	1	Spare	20
21	Spare	1	20 A		--			0.00	0.00			--		20 A	1	Spare	22
23	Space	1	--		--					--	--	--		--	1	Space	24
25	Space	1	--		--	--	--					--		--	1	Space	26
27	Space	1	--		--			--	--			--		--	1	Space	28
29	Space	1	--		--					--	--	--		--	1	Space	30
						2.72 kVA		**2.6 kVA**		**1.8 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)	1.78	1.00	1.78	Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)		NEC		Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	5.29	0.80	4.23		
Total Load (KVA)	7.07		6.01		

PANELBOARD SCHEDULE

Branch Panel Name:	LP SEC #1	**New/Exist:**	EXIST	**Location:**	MECHANICAL/ELECTRICAL 122	**Project Name:**	Carmel Fire Station No. 42				
SPD:	NO	**Main:**	MCB	**Mounting:**	Surface	**Project No.**	25-150				
Voltage	208Y/120V	**Amp:**	225 A	**Kaic Rating:**	10KAIC	**Date**	05/15/26				
Feed From:		**Enclosure:**	Type 1	**Feeder:**	SEE ONE LINE		Applied Engineering Services (317) 810-4141				

Ckt	Load Name	Pole	Rating	Type	Load Class	A (KVA)		B (KVA)		C (KVA)		Load Class	Type	Rating	Pole	Load Name	Ckt
1	EX. RECEPTACLES	1	20 A		--	0.00	0.00					--		20 A	1	EX. LIGHTING	2
3	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	1	EX. LIGHTING	4
5	EX. RECEPTACLES	1	20 A		--					0.00	0.53	Other		20 A	1	**HHWP-1B MECHANICAL/ELECTRICAL 122**	6
7	EX. RECEPTACLES	1	20 A		--	0.00	0.00					--		20 A	1	EX. CEILING FANS	8
9	EX. OVERHEAD DOOR OPERATOR	1	20 A		--			0.00	0.00			--		20 A	1	EX. RADIENT HEATERS	10
11	EX. OVERHEAD DOOR OPERATOR	1	20 A		--					0.00	0.00	--		20 A	1	EX. FURNACE-AC1	12
13	EX. RECEPTACLES	1	20 A		--	0.00	0.00					--		20 A	1	EX. FURNACE-AC2	14
15	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	1	EX. FURNACE-AC3	16
17	EX. RECEPTACLES	1	20 A		--					0.00	0.00	--		20 A	1	EX. FURNACE-AC4	18
19	EX. RECEPTACLES	1	20 A		--	0.00	0.00					--		20 A	1	EX. WATER HEATER CONTROLS	20
21	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	1	EX. EXHAUST FANS	22
23	EX. RECEPTACLES	1	20 A		--					0.00	0.00	--		20 A	1	EX. RECEPTACLES	24
25	EX. RECEPTACLES	1	20 A		--	0.00	0.00					--		20 A	1	EX. RECEPTACLES	26
27	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	1	EX. RECEPTACLES	28
29	EX. RECEPTACLES	1	20 A		--					0.00	0.00	--		20 A	1	EX. RECEPTACLES	30
31	**HHWP-2B MECHANICAL/ELECTRICAL 122**	1	20 A		Other	0.53	0.00					--		20 A	1	EX. RECEPTACLES	32
33	**DRYER DECONTAMINATION 113**	2	30 A		Receptacle			0.09	0.00			--		20 A	1	EX. RECEPTACLES	34
35										0.09	0.00	--		20 A	1	EX. RECEPTACLES	36
37	EX. FIRE ALARM PANEL	1	20 A		--	0.00	0.00					--		20 A	1	EX. RECEPTACLES	38
39	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	1	EX. RECEPTACLES	40
41	EX. RECEPTACLES	1	20 A		--					0.00	0.18	Receptacle		20 A	1	**ELECTRIC WATER COOLER**	42
						12.87 kVA		**11.9 kVA**		**11.4 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)				Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)	30.48	NEC	20.24	Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	5.66	0.80	4.53		
Total Load (KVA)	36.14		24.77		

PANELBOARD SCHEDULE

Branch Panel Name:	LP SEC #2	**New/Exist:**	EXIST	**Location:**	MECHANICAL/ELECTRICAL 122	**Project Name:**	Carmel Fire Station No. 42				
SPD:	NO	**Main:**	MLO	**Mounting:**	Surface	**Project No.**	25-150				
Voltage	208Y/120V	**Amp:**	225 A	**Kaic Rating:**	10KAIC	**Date**	05/15/26				
Feed From:	LP SEC #1	**Enclosure:**	Type 1	**Feeder:**	SEE ONE LINE		Applied Engineering Services (317) 810-4141				

Ckt	Load Name	Pole	Rating	Type	Load Class	A (KVA)		B (KVA)		C (KVA)		Load Class	Type	Rating	Pole	Load Name	Ckt
43	EX. RECEPTACLES	1	20 A		--	0.00	0.00					--		20 A	1	EX. RECEPTACLES	44
45	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	1	EX. RECEPTACLES	46
47	EX. CEILING PADDLE FANS	1	20 A		--					0.00	0.00	--		20 A	1	EX. RECEPTACLES	48
49	EX. CEILING PADDLE FANS	1	20 A		--	0.00	1.44					Other		20 A	1	**B-1**	50
51	EX. CEILING PADDLE FANS	1	20 A		--			0.00	0.00			--		20 A	1	EX. RECEPTACLES	52
53	EX. EXHAUST FANS	1	20 A		--					0.00	10.26	Other; Power; Spare; Receptacle		100 A	3	**PANEL LP 2**	54
55	EX. RECEPTACLES	1	20 A		--	0.00	10.90										56
57	**B-2**	1	20 A		Other			1.44	10.14								58
59	EX. RECEPTACLES	1	20 A		--					0.00	0.36	Receptacle		20 A	1	**TV FITNESS 115**	60
61	EX. RECEPTACLES	1	20 A		--	0.00	0.00					--		20 A	1	EX. GENERATOR ENGINE HTR.	62
63	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	2	EX. AIR COMPRESSOR	64
65	EX. RECEPTACLES	1	20 A		--					0.00	0.00						66
67	EX. DISH WASHER	1	20 A		--	0.00	0.00					--		20 A	1	EX. KITCHEN HOOD	68
69	EX. GARBAGE DISPOSAL	1	20 A		--			0.00	0.00			--		20 A	1	EX. MOBILE COMMAND	70
71	EX. GARBAGE DISPOSAL	1	20 A		--					0.00	0.00	--		50 A	2	EX. MOBILE COMMAND	72
73	EX. CARBON MONOXIDE	1	20 A		--	0.00	0.00										74
75	EX. SHIFT COMMAND RECEPTACLE	1	20 A		--			0.00	0.00			--		20 A	1	EX. LOAD	76
77	EX. PARTITION RECEPTACLE	1	20 A		--					0.00	0.00	--		30 A	2	EX. LOAD	78
79	EX. TIME CLOCK/PHOTOCELL	1	20 A		--	0.00	0.00										80
81	**WASHER DECONTAMINATION 113**	1	20 A		Receptacle			0.18	0.00			--		20 A	1	EX. LOAD	82
83	**Spare**	1	20 A		--					0.00	0.00	--		20 A	1	EX. LOAD	84
						12.34 kVA		**11.8 kVA**		**10.6 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)				Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)	30.12	NEC	20.06	Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	4.61	0.80	3.69		
Total Load (KVA)	34.73		23.75		

LIGHTING FIXTURE SCHEDULE

NOTES:
1. LIGHTING FIXTURE SHALL QUALIFY FOR DSN ENERGY REBATE.

TYPE TAG	DESCRIPTION	MOUNTING	LAMPS TYPE	LUMENS	TEMPERATURE	WATTS	VOLTS	MANUFACTURERS	NOTES
F1A	2X4 LAY IN TROFFER FIXTURE, STEEL HOUSING, DIMMING TO 1%	RECESSED	LED	3,470 lm	3,500 K	41 W	277 V	METALUX 24CZ2-35-UNV-L835-HCD	1
F1B	1X4 LAY IN TROFFER FIXTURE, STEEL HOUSING, DIMMING TO 1%	RECESSED	LED	3,470 lm	3,500 K	46 W	277 V	METALUX 14CZ2-35-UNV-L835-HCD	1
F1C	2X2 LAY IN TROFFER FIXTURE, STEEL HOUSING, DIMMING TO 1%	RECESSED	LED	3,900 lm	3,500 K	48 W	277 V	METALUX 22CZ2-35-UNV-L835-HCD	1
F2	4" RECESSESED CAN FIXTURE, STEEL HOUSING, WHITE TRIM, WET-RATED	RECESSED	LED	250 lm	3,500 K	3.1 W	277 V	GOTHAM LIGHTING EVO4SH-35-02-DFR-SOL-MVOLT OR APPROVED EQUALS	1
F3	4' PENDANT LED STRIP FIXTURE, STEEL HOUSING CHAIN HANGER	PENDANT	LED	3,500 lm	3,000 K	25 W	277 V	METALUX 4SNLED-LD5-36SL-UNV-L830-CD-AYC, OR APPROVED EQUALS	1
F4	WALL MOUNTED RECESSED NIGHT LIGHT, INTEGRATED PHOTOCELL, MATTE WHITE FINISH	WALL	LED	85 lm	3,500 K	1.56 W	277 V	LITON LSLD73, OR APPROVED EQUALS	1
F5	WALL MOUNT LED STRIP FIXTURE, LOW PROFILE, ALUMINIUM HOUSING, ANGLE ADJUSTED LENS	SURFACE	LED	1,700 lm	3,500 K	29.2 W	277 V	KLUS DESIGN MICRO-PLUS EXTRUSION, OR APPROVED EQUALS	1
F6	UNDERCABINET LOW PROFILE LED STRIP, ALUMINIUM HOUSING	SURFACE	LED	324 lm	3,000 K	8 W	277 V	LITHONIA RAZ-9IN-30K-90CRI-RAZTRANS24 MVOLT, OR APPROVED EQUALS	1
FX	EMERGENCY EXIT SIGN, RED LETTERING	UNIVERSAL	LED	3,500 lm	3,500 K	5 W	277 V	LPX SERIES, OR APPROVED EQUALS	1

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3610 West 106th Street
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Carmel Fire Department
210 Veterans Wy,
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PROFESSIONAL SEAL:

RACHEL COCHRAN
REGISTERED
No. PE11600436
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1	Pre-bid Changes		08/14/26

ISSUED FOR CONSTRUCTION

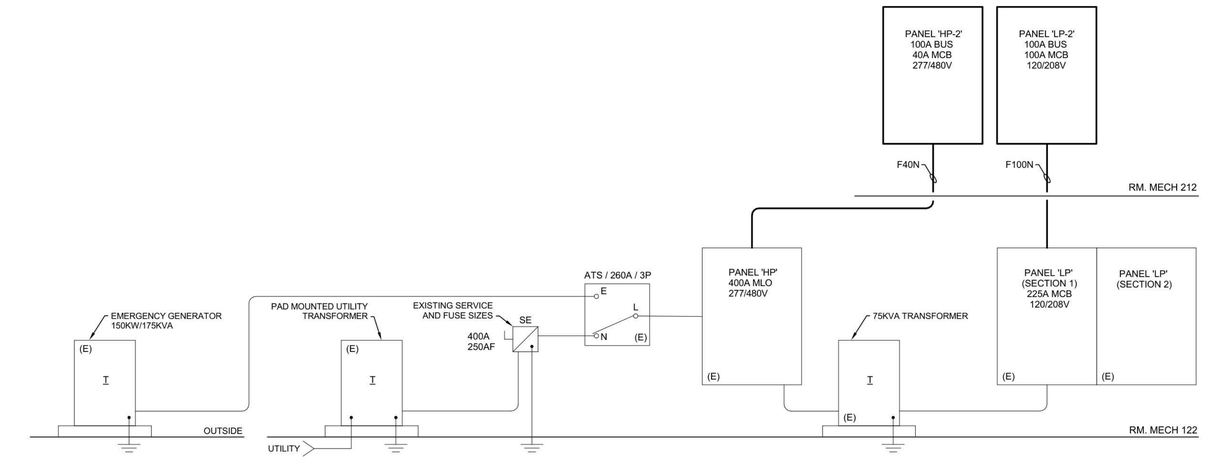
DATE ISSUED:	DRAWN BY:	CHECKED BY:
05/15/26	JKW	DJJ

DRAWING TITLE:
ELECTRICAL SCHEDULES

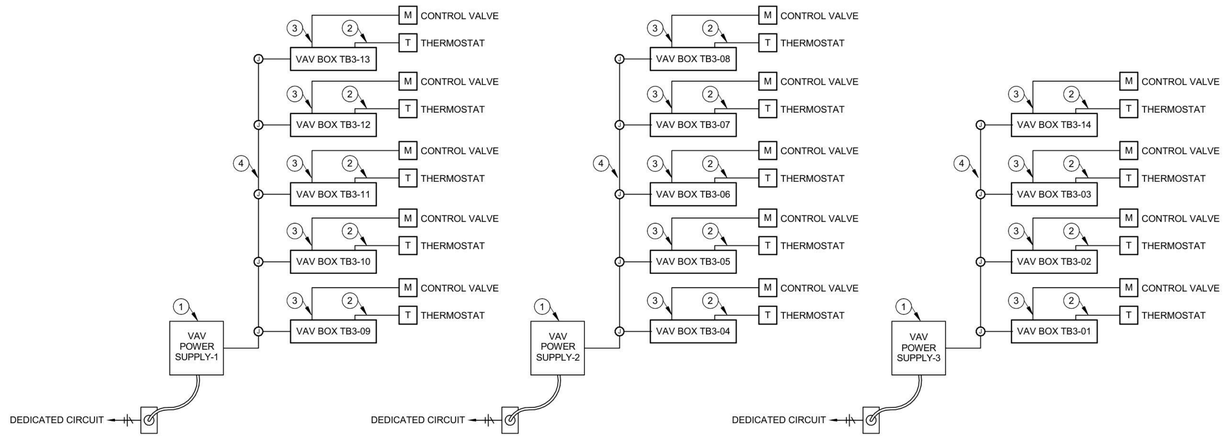
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FEEDER AND BRANCH CIRCUIT SIZING TABLE FOR EMT CONDUIT AND THWN/XHHW, 600V, 75 degree C, COPPER CONDUCTORS (NEC-Table-310.15(B)(16)) & (NEC-Table-1, Chapter-9)								
DESIGNATION	CONDUCTOR SIZE PER CONDUIT		FEEDER CONDUIT SIZE -EMT					
	PHASE & NEUTRAL	BUILDING GROUND	QTY	1P,1N,1G OR 2P,1G	QTY	2P,1N,1G OR 3P,1G	QTY	3P,1N,1G OR 3P,1N,2G
	COPPER	COPPER						
F20	12	12	1	3/4"	1	3/4"	1	3/4"
F30	10	10	1	3/4"	1	3/4"	1	3/4"
F40	8	10	1	3/4"	1	3/4"	1	3/4"
F50	6	10	1	3/4"	1	3/4"	1	1"
F60	4	10	1	1"	1	1"	1	1-1/4"
F70	4	8	1	1"	1	1"	1	1-1/4"
F80	3	8	1	1"	1	1-1/4"	1	1-1/4"
F90	2	8	1	1"	1	1-1/4"	1	1-1/4"
F100	1	8	1	1-1/2"	1	1-1/2"	1	1-1/2"
F110-F125	1	6	1	1-1/2"	1	1-1/2"	1	1-1/2"
F150	1/0	6	1	1-1/4"	1	1-1/2"	1	2"
F175	2/0	6	1	1-1/4"	1	2"	1	2"
F200	3/0	6	1	2"	1	2"	1	2"
F225	4/0	4	1	2"	1	2-1/2"	1	2-1/2"
F250	250	4			1	2-1/2"	1	2-1/2"
F300	350	4			1	2-1/2"	1	3"
F350	500	3			1	3	1	3-1/2"
F400	500	3			1	3	1	3-1/2"
F400F	600	3			1	4"	1	4"
F400F1	3/0	3			2	2"	2	2"
F450	4/0	2			2	2"	2	2-1/2"
F500	250	2			2	2"	2	2-1/2"
F600	350	1			2	3"	2	3"
F800	600	1/0			2	4"	2	4"
F900	350	2/0			3	2-1/2"	3	3"
F1000	500	2/0			3	3"	3	3-1/2"
F1200	600	3/0			3	3"	3	3-1/2"
F1600	500	4/0			5	3"	5	3-1/2"



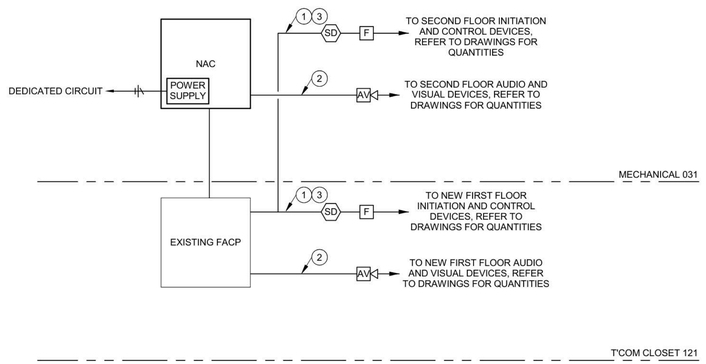
1 ONE-LINE DIAGRAM
SCALE: NONE



PLAN NOTES:

1. VAV BOX POWER SUPPLY INSTALLED BY EC, FURNISHED BY OTHERS. MODEL NUMBER PSH200A MANUFACTURED BY FUNCTIONAL DEVICES.
2. THERMOSTAT INSTALLED BY EC, PROVIDED BY OTHERS. CAT5 CONTROL CABLE PROVIDED BY EC FROM THERMOSTAT TO VAV BOX.
3. CONTROL VALVE PROVIDED BY MC. 3-WIRE CONTROL WIRING PROVIDED BY EC FROM CONTROL VALVE TO VAV BOX.
4. 2-WIRE CONTROL WIRING PROVIDED BY EC.

2 CONTROL WIRING DIAGRAM
SCALE: NONE



PLAN NOTES:

1. 18/4 FIRE ALARM WIRE
2. 16/2 FIRE ALARM WIRE
3. NEW INITIATING DEVICES SAHLL BE TIED INTO EXISTING FA POLLING LOOP.

3 FA RISER DIAGRAM
SCALE: NONE

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05/15/26	JKW	DJJ

DRAWING TITLE:
ELECTRICAL DIAGRAMS

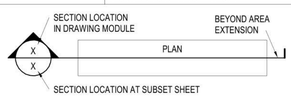
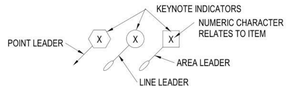
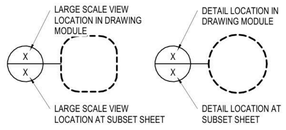
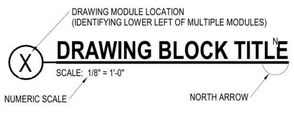
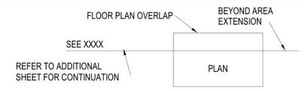
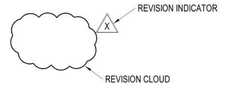
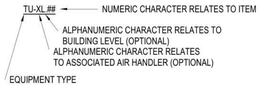
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ABBREVIATIONS AND TERMS

&	AND	LBS	POUNDS
°F	DEGREES FAHRENHEIT	MAX	MAXIMUM
AFC	ABOVE FINISHED COUNTER	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	MIN	MINIMUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MISC	MISCELLANEOUS
ARCH	ARCHITECT	MTD	MOUNTED
AVG	AVERAGE	NA	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	NEC	NATIONAL ELECTRIC CODE
BLDG	BUILDING	NIC	NOT IN CONTRACT
BMS	BUILDING MANAGEMENT SYSTEM	NOM	NOMINAL
BSMT	BASEMENT	NTS	NOT TO SCALE
C	CONDUIT	OD	OUTSIDE DIAMETER
CLG	CEILING	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
DWG	DRAWING	PVC	POLYVINYL CHLORIDE CONDUIT/PIPE
EA	EACH	RGS	RIGID GALVANIZED CONDUIT
EC	ELECTRICAL CONTRACTOR	RM	ROOM
EL	ELEVATION	SF	SQUARE FOOT
EMT	ELECTRICAL METALLIC TUBING	SPEC	SPECIFICATION
ETR	EXISTING TO REMAIN	SQ	SQUARE
EX	EXISTING	STD	STANDARD
FLR	FLOOR	TBD	TO BE DETERMINED
FT	FOOT, FEET	TBI	TO BE INSTALLED
G	GROUND	TBR	TO BE REMOVED
GC	GENERAL CONTRACTOR	TC	TEMPERATURE CONTROLS
GRD	GROUND	TCC	TEMPERATURE CONTROLS CONTRACTOR
GND	GROUND	TEMP	TEMPERATURE
HORIZ	HORIZONTAL	TYP	TYPICAL
HR	HOUR(S)	UON	UNLESS OTHERWISE NOTED
Hz	HERTZ	VERT	VERTICAL
ID	INSIDE DIAMETER	WP	WEATHERPROOF
IN	INCH, INCHES	W/	WITH
INT	INTERIOR	W/O	WITHOUT

REFERENCE SYMBOLS

SECTION INDICATOR:	REFERENCE SECTION LOCATION THROUGH AN AREA FOR ADDITIONAL INFORMATION.	KEYNOTE INDICATOR:	REFERENCE SHEET KEYNOTE LOCATION FOR ADDITIONAL INFORMATION.
			
DETAIL INDICATOR:	REFERENCE DETAIL LOCATION FOR ADDITIONAL INFORMATION.	DRAWING BLOCK TITLE INDICATOR:	REFERENCE DRAWING MODULE LOCATION FOR ADDITIONAL INFORMATION.
			
MATCH LINE INDICATOR:	REFERENCE SHEET LOCATION FOR ADDITIONAL INFORMATION.	REVISION INDICATOR:	REFERENCE TITLE BLOCK LOCATION FOR ADDITIONAL INFORMATION.
			
EQUIPMENT INDICATOR:	REFERENCE SCHEDULE LOCATION FOR ADDITIONAL INFORMATION.	DIFFUSER, GRILLE, REGISTER INDICATOR:	REFERENCE SCHEDULE LOCATION FOR ADDITIONAL INFORMATION.
			

LINETYPE DESIGNATIONS

DEMOLITION	– – – – – – – – – – – – – – – – – –
EXISTING	———————————
NEW WORK	———————————
FUTURE	– – – – – – – – – – – – – – – – – –

HORIZONTAL DATA CABLING COLOR LEGEND

SYSTEM	TERMINATION (RJ-45)	CABLE	PATCH CABLE
DATA	ORANGE	GRAY	BLACK
WIRELESS	ORANGE	GRAY	PURPLE
IP CAMERA	ORANGE	GRAY	YELLOW
AV	GREEN	GRAY	GREEN

TECHNOLOGY SYMBOLS LEGEND

SYMBOL	DESCRIPTION	ROUGH-IN REQUIREMENTS	MOUNTING HEIGHT (UNO)	ROUGH-IN DETAIL
xD ▽	TELECOMMUNICATIONS OUTLET. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG OR DOUBLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+18"	1/T-501
xD ▽ W	TELECOMMUNICATIONS OUTLET WITH WALL PLATE. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+44"	1/T-501
VI xD ▽	VIDEO INPUT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG OR DOUBLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+18"	1/T-501
VO xD ▽	VIDEO OUTPUT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG OR DOUBLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+60"	1/T-501
VO xD	VIDEO OUTPUT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE CHIEF PAC501B WALL BOX AND CHIEF PNRWUB MOUNT. PROVIDE ONE (1) 1-1/4" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	+60"	2/T-501
WAP xD	CEILING MOUNTED WIRELESS ACCESS POINT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE 4" SQUARE BOX WITH BLANK METAL COVER PLATE. METAL BOX SHALL BE SUPPORTED FROM WALL ABOVE ACCESSIBLE CEILING), OR STRUCTURE, OR UNISTRUT. METAL BOX SHALL NOT BE INSTALLED LOOSE ON CEILING TILES.	-	-
WAP xD ⊥	WALL MOUNTED WIRELESS ACCESS POINT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+96"	1/T-501

SECURITY SYMBOLS LEGEND

SYMBOL	DESCRIPTION	ROUGH-IN REQUIREMENTS	MOUNTING HEIGHT (UNO)	ROUGH-IN DETAIL
CR	CARD READER.	PROVIDE RANDL T-55017-USA SINGLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+44"	3, 4 / T-501
EL	ELECTRONIC LATCH.	COORDINATE ROUGH-IN AND CONDUIT INTO DOOR FRAME WITH DOOR HARDWARE MANUFACTURER.	-	3, 4 / T-501
ES	ELECTRONIC STRIKE.	COORDINATE ROUGH-IN AND CONDUIT INTO DOOR FRAME WITH DOOR HARDWARE MANUFACTURER.	-	3, 4 / T-501
DC	DOOR CONTACT.	COORDINATE ROUGH-IN AND CONDUIT INTO DOOR FRAME WITH DOOR HARDWARE MANUFACTURER.	-	3, 4 / T-501
xD	CEILING MOUNTED IP VIDEO SURVEILLANCE CAMERA LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE 4" SQUARE BOX WITH BLANK METAL COVER PLATE. METAL BOX SHALL BE SUPPORTED FROM WALL ABOVE ACCESSIBLE CEILING), OR STRUCTURE, OR UNISTRUT. METAL BOX SHALL NOT BE INSTALLED LOOSE ON CEILING TILES.	-	-
xD ⊥	WALL MOUNTED IP VIDEO SURVEILLANCE CAMERA LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+96"	-

TECHNOLOGY GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. ALL LOCATIONS SHALL BE FIELD VERIFIED.

B. CONTRACT DOCUMENTS CONSIST OF BOTH THE PROJECT MANUAL AND DRAWINGS, AND BOTH ARE INTENDED TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.

C. THE CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL COSTS REQUIRED TO COMPLETELY AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT, AND SHALL EXAMINE THE SCOPE OF WORK OF OTHER TRADES PRIOR TO SUBMITTING A BID PROPOSAL.

D. CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES, ENLARGED FOR CLARITY. ANY OFFSETS, ADDITIONAL FITTINGS, AND/OR APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM SHALL BE BORNE BY THE CONTRACTOR.

E. THE TECHNOLOGY DRAWINGS ARE OF EQUAL IMPORTANCE WITH THE ARCHITECTURAL AND ENGINEERING DRAWINGS IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE THE INSTALLATION OF ENGINEERING WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS AND THE TECHNOLOGY DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, THE DISCREPANCY SHALL BE BROUGHT TO THE ARCHITECTS/ENGINEERS ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER.

F. DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING THE WORK. EXPLICIT DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE.

G. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING OR BEGINNING WORK ON THIS PROJECT.

H. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

I. ANY DETAILS, SYSTEMS AND/OR MATERIALS WHICH ARE PROPOSED TO BE CHANGED MUST FIRST BE REVIEWED BY THE OWNER AND ARCHITECT/ENGINEER PRIOR TO THE PREPARATION OF SHOP DRAWINGS.

J. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION ADOPTED BY STATE HAVING JURISDICTION, AND THE STATE HAVING JURISDICTION ELECTRICAL CODE AMENDMENTS, LOCAL/MUNICIPAL CODES, AND THE AUTHORITY HAVING JURISDICTION.

K. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS WORK, DUE TO A LACK OF COORDINATION.

L. COORDINATE LOCATION OF ALL DEVICES TO BE INSTALLED IN CEILINGS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ENGINEER OF AN CONFLICTS PRIOR TO INSTALLATION.

M. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THEIR AREAS OF CONSTRUCTION. PROJECT AREAS SHALL BE THOROUGHLY CLEANED AND TRASH DISPOSED OF AT THE END OF EACH WORK DAY. THE OWNER'S FACILITIES SHALL NOT BE USED FOR TRASH DISPOSAL.

N. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THEIR WORK FROM DUST AND DEBRIS. CONTRACTOR SHALL PROVIDE DUST BARRIERS FOR ALL TECHNOLOGY EQUIPMENT AS REQUIRED TO PROTECT THE TECHNOLOGY EQUIPMENT.

O. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURFACES AND FINISHED OF THE CONSTRUCTION SITE DURING THE INSTALLATION OF THE TECHNOLOGY SYSTEMS. DAMAGED SURFACES OR FINISHES RESULTING FROM THE PERFORMANCE OF THE WORK OR NEGLIGENCE SHALL BE REPAIRED AT NO COST TO THE OWNER BY THE RESPONSIBLE CONTRACTOR. FINISHES AND SURFACES SHALL BE MADE TO MATCH THE EXISTING FINISHES OR SURFACES TO THE SATISFACTION OF THE OWNER AND ARCHITECT/CONSTRUCTION MANAGER.

TECHNOLOGY PATHWAY NOTES

1. ALL HORIZONTAL CABLING RUNS SHALL BE SUPPORTED NEATLY WITH CABLE TRAY, CONDUITS, OR J-HOOKS. ALL HORIZONTAL CABLING THAT IS NOT INSTALLED IN CABLE TRAY OR CONDUIT SHALL BE SUPPORTED WITH J-HOOKS. CABLES SHALL NOT LIE ON THE STRUCTURAL STEEL OR SYSTEMS OF THE FACILITY.
2. ALL CONDUIT PENETRATIONS SHALL BE SEALED WITH APPROPRIATE CONDUIT SEALING MATERIAL AND SHALL MATCH FIRE RATING OF BARRIER BEING PENETRATED.
3. FIELD VERIFY LOCATIONS OF BUILDING EXPANSION JOINTS WHEN ROUTING CONDUIT. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH EXPANSION FITTINGS. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.
4. WHEN CABLE TRAY IS SHOWN ON THE PLANS AND PORTIONS OF CABLE TRAY CANNOT BE INSTALLED DUE TO CONFLICT WITH STRUCTURE, THE CONTRACTOR SHALL PROVIDE (2) 4" C. WITH INSULATED BUSHINGS THAT OVERLAP 1" INTO THE TRAY.
5. CONDUITS 2" AND LARGER THAT PENETRATE EXTERIOR WALLS SHALL USE LINK-SEALS.
6. DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS).
7. COORDINATE AND VERIFY LOCATIONS OF DEVICES WITH BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.
8. ALL DEVICE BOXES SHALL BE FLUSH MOUNTED AND ALL RACEWAYS SHALL BE CONCEALED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CUT AND PATCH EXISTING WALLS WITH EXTREME CAUTION, SO AS TO MINIMIZE INVASIVENESS OF INSTALLATION. ROUTE RACEWAYS SO AS TO MINIMIZE THE AMOUNT OF CUTTING AND PATCHING REQUIRE. PATCHING SHALL COMPLY WITH ALL BID DOCUMENT REQUIREMENTS.
9. CONDUIT RUNS SHALL HAVE NO MORE THAN 180 DEGREES OF BENDS WITHOUT A PULL BOX. WHERE CONDUIT IS SHOWN AND/OR SPECIFIED, CONTRACTOR SHALL PROVIDE ALL PULL BOXES SHOWN ON THE DRAWINGS AND ADDITIONAL PULL BOXES AS FOLLOWS:
   A. EVERY 180 DEGREES OF CONDUIT BEND
   B. EVERY 100 FEET OF CONDUIT PATH
10. PROVIDE PLASTIC INSULATED BUSHINGS ON ALL CONDUIT STUB'S. BUSHINGS SHALL ALSO BE PROVIDED FOR ALL CONDUITS WHETHER ABOVE OR BELOW CEILING OR AT FLOOR LEVEL. IT IS THE COMMUNICATIONS CABLING CONTRACTORS RESPONSIBILITY TO ENSURE BUSHINGS HAVE BEEN PROVIDED ON ALL CONDUITS PRIOR TO PULLING CABLES. IF CONDUITS ARE FOUND TO BE WITHOUT BUSHINGS, COMMUNICATIONS CABLING CONTRACTOR SHALL REMOVE CABLING, PROVIDE BUSHINGS AND REPLACE WITH NEW CABLING.

FIRESTOPPING NOTES

1. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED AFTER ALL CABLES ARE PULLED (ALL SYSTEMS) USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FLOOR AND WALL PENETRATION REQUIRED FOR THIS PROJECT. ALL OTHER PENETRATIONS OR OPENINGS IN NON-FIRE RATED WALLS SHALL BE REPAIRED AND SEALED WITH MATERIALS TO MATCH THE EXISTING CONSTRUCTION.

NOT ALL NOTES, DESIGNATORS, SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PROJECT

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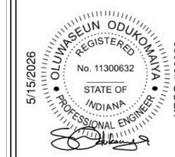
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Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:



PROJECT NUMBER:
260060

REVISION SCHEDULE:

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	EAG	MLM

DRAWING TITLE:
SYMBOLS AND ABBREVIATIONS

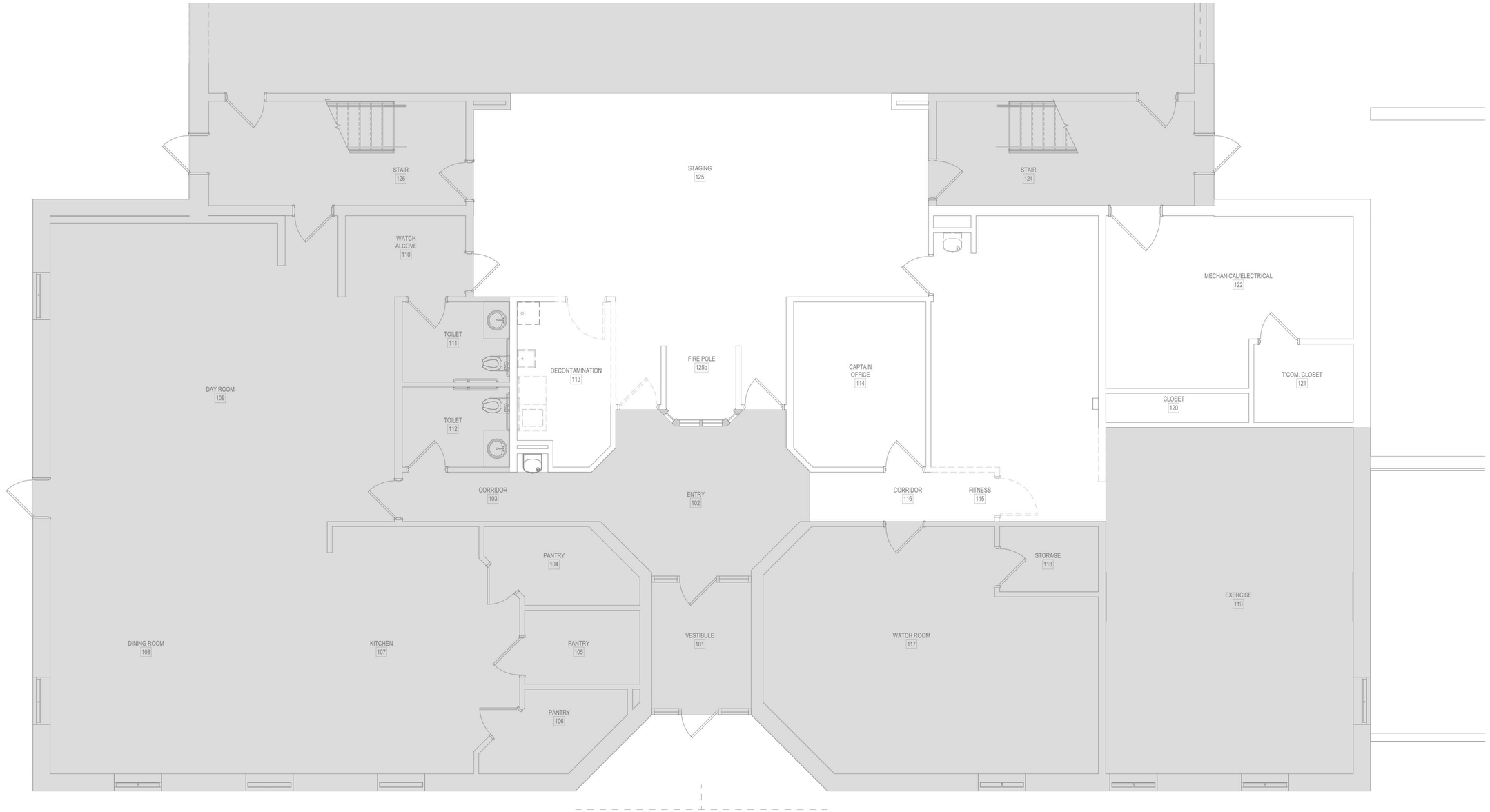
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ACCESS CONTROL NOTE:

ALL ACCESS CONTROL WORK SHALL BE COORDINATED WITH CITY OF CARMEL'S EXISTING ACCESS CONTROL INTEGRATOR JAF PROPERTIES:
JIM FERNANDEZ
JIMFIXIN@YAHOO.COM
317-402-8890

SHEET KEYNOTES



1 FIRST FLOOR TECHNOLOGY DEMOLITION PLAN

1/4" = 1'-0"

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PROFESSIONAL SEAL:

5/15/2026
OLUWASEUN ODUKOMAIYA
REGISTERED
No. 11300632
STATE OF INDIANA
PROFESSIONAL ENGINEER
KBSO #26029

PROJECT NUMBER:
260060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED	DRAWN BY:	CHECKED BY:
5/15/26	EAG	MLM

DRAWING TITLE:
TECHNOLOGY FIRST FLOOR DEMOLITION PLAN

SHEET NUMBER:
TD101

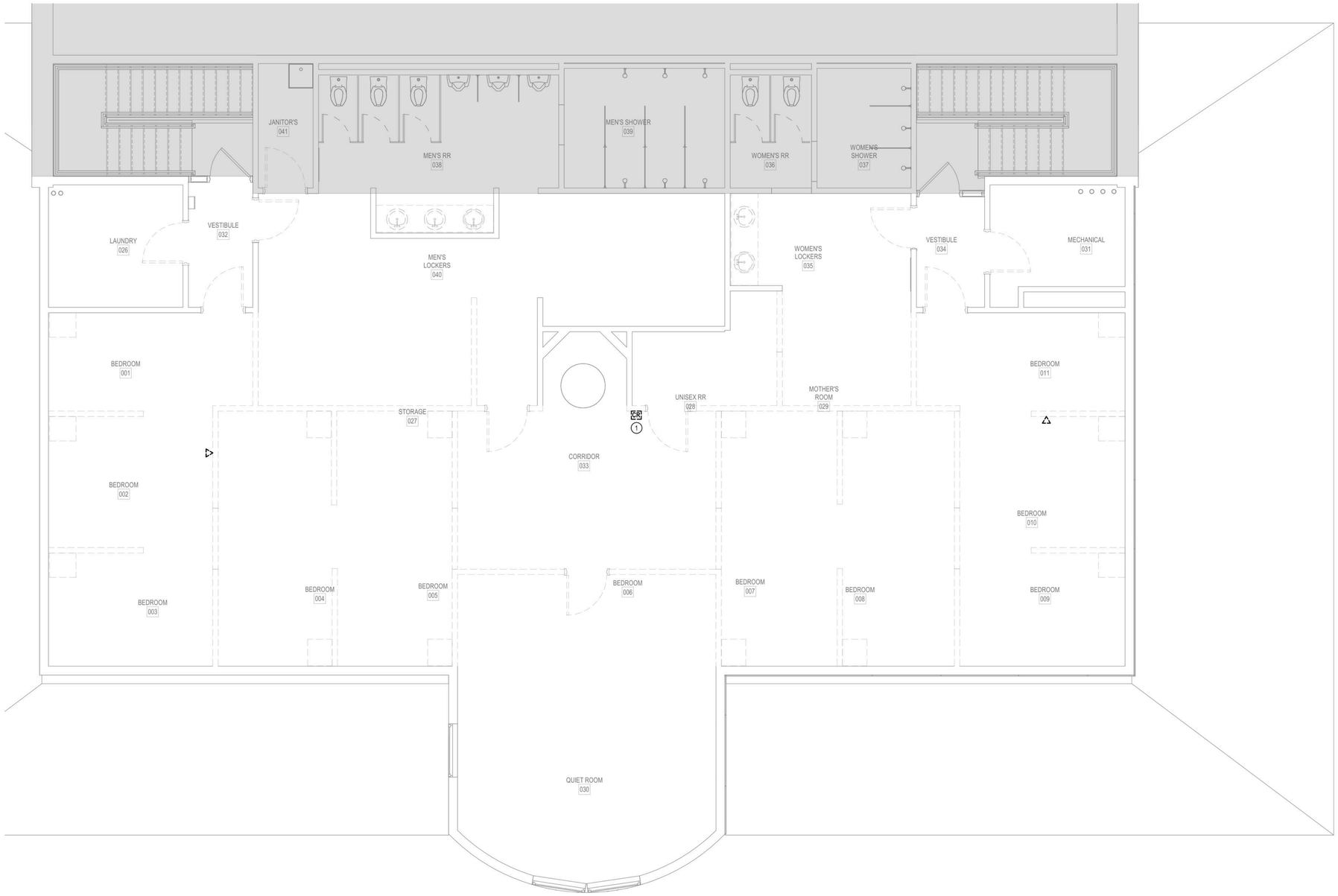
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ACCESS CONTROL NOTE:

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317-402-8890

SHEET KEYNOTES

1 REMOVE EXISTING CARD READER AND TURN OVER TO OWNER.



1 SECOND FLOOR TECHNOLOGY DEMOLITION PLAN

1/4" = 1'-0"

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5/15/2026

KBSO #26029

PROJECT NUMBER:
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REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
TECHNOLOGY SECOND FLOOR DEMOLITION PLAN

SHEET NUMBER:
TD102

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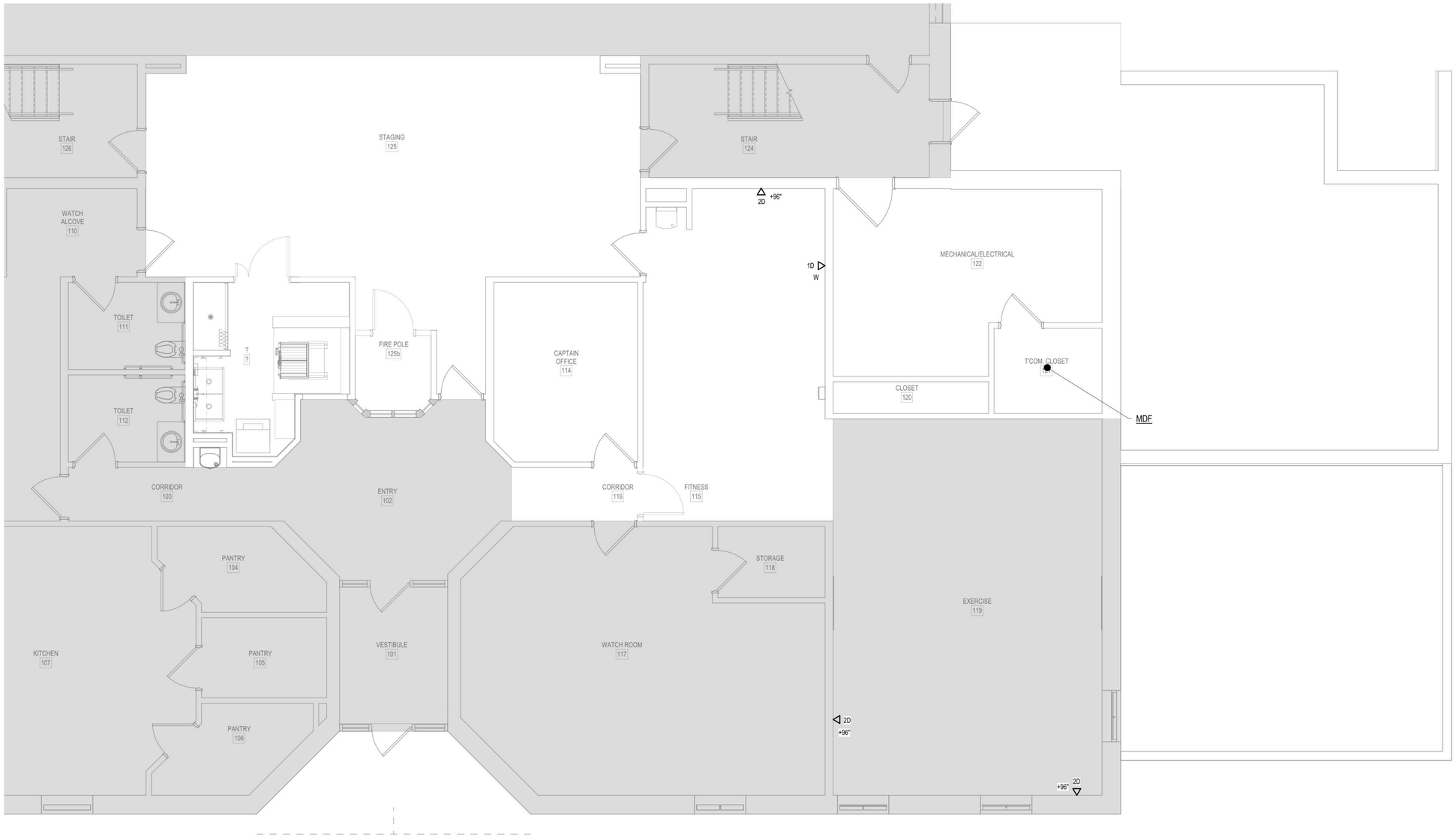
ACCESS CONTROL NOTE:

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JIM FERNANDEZ
JIMFIXIN@YAHOO.COM
317-402-8890

GENERAL NOTES

A REFER TO SHEET T000 FOR GENERAL TECHNOLOGY NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO T500 SERIES SHEETS FOR DETAILS.

SHEET KEYNOTES



1 FIRST FLOOR TECHNOLOGY PLAN
1/4" = 1'-0"

NOTE:

ALL CABLING ON THIS PLAN IS ROUTED TO THE EXISTING MDF.

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PROFESSIONAL ENGINEER
5/15/2026
KBSO #26029

PROJECT NUMBER:
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REVISION SCHEDULE

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DRAWING TITLE:
TECHNOLOGY FIRST FLOOR PLAN

SHEET NUMBER:
T101

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ACCESS CONTROL NOTE:

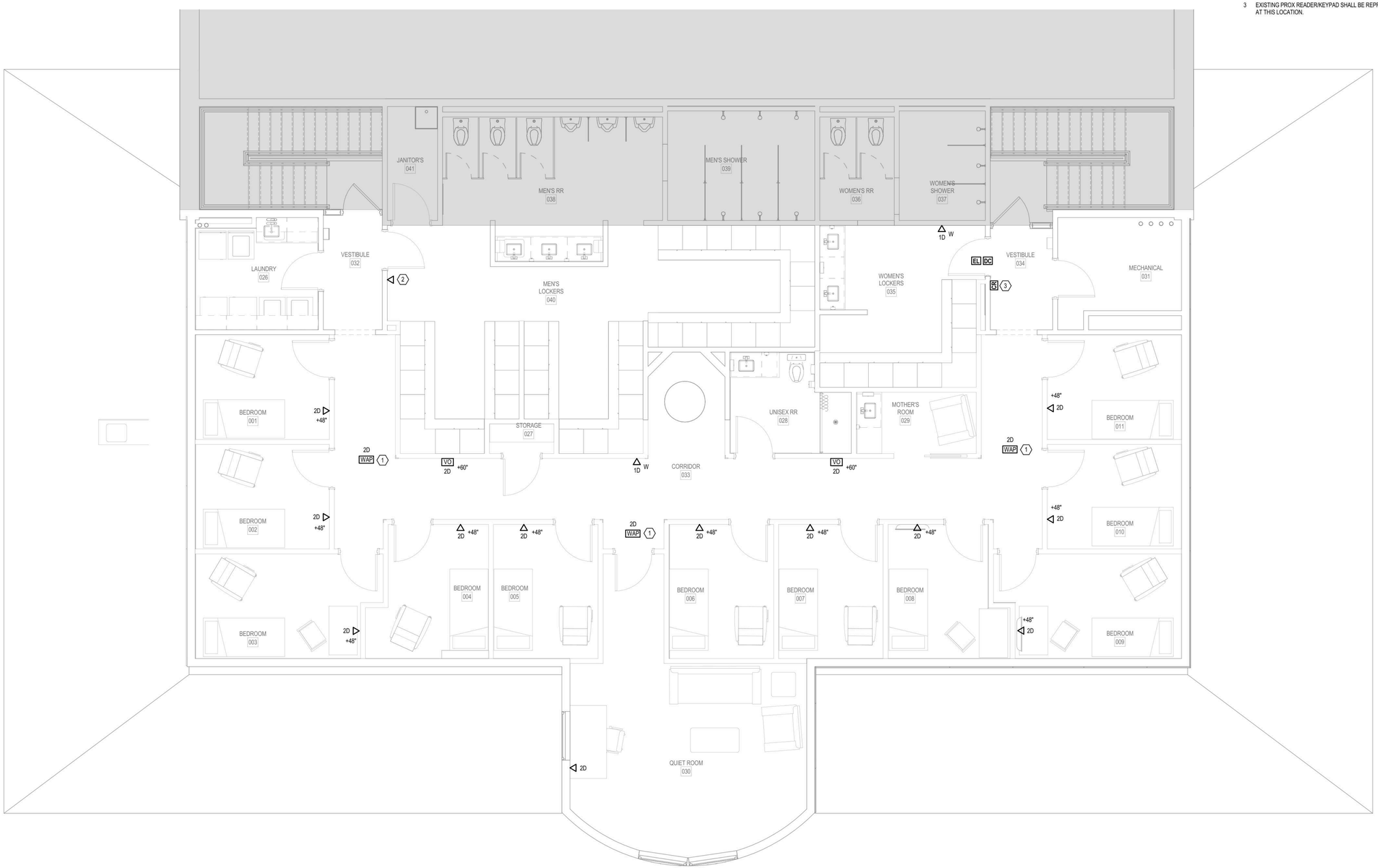
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317-402-8890

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B REFER TO T500 SERIES SHEETS FOR DETAILS.

SHEET KEYNOTES

1 PROVIDE CATEGORY 6A DROPS FOR WIRELESS ACCESS POINT. PROVIDE 20FT. SLACK LOOP COILED NEATLY AND SUPPORTED ABOVE THE CEILING. TERMINATE CABLES WITH RJ45 MODULAR JACKS AND TEST PER SPECIFICATIONS. NOTE LOCATION ON THE RECORD DRAWINGS AND MARK LOCATION ON THE CEILING WITH A GREEN DOT STICKER.
2 EXISTING WALL PHONE TO REMAIN.
3 EXISTING PROX READER/KEYPAD SHALL BE REPROGRAMMED FOR NEW DOOR AT THIS LOCATION.



1 SECOND FLOOR TECHNOLOGY PLAN
1/4" = 1'-0"

NOTE:
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5/15/2026
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REGISTERED
No. 11300632
STATE OF INDIANA
PROFESSIONAL ENGINEER
KBSO #26029

PROJECT NUMBER:
260060

REVISION SCHEDULE

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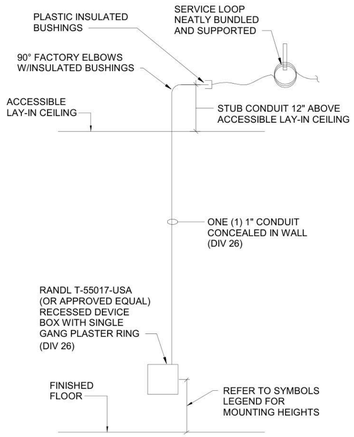
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DRAWING TITLE:
TECHNOLOGY SECOND FLOOR PLAN

SHEET NUMBER:
T102

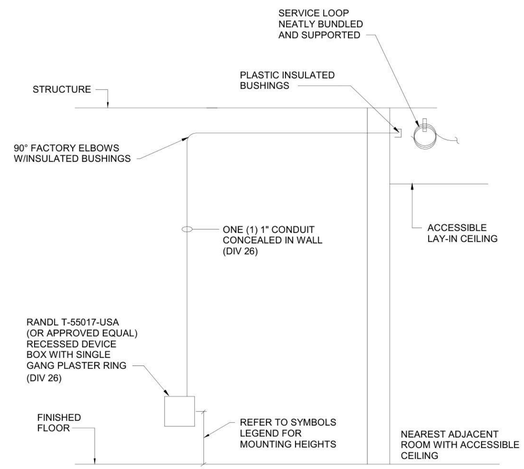
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ROUGH-IN NOTES:

1. PROVIDE PULL STRINGS IN ALL CONDUITS. PULL STRINGS SHALL BE INSTALLED IN EMPTY AND FULL CONDUITS.
2. MOUNTING HEIGHTS TO BE INSTALLED ABOVE COUNTERS OR IN CASEWORK SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.
3. ALL CONDUITS AND FITTINGS SHALL BE EMT.

1-GANG TELECOMMUNICATIONS OUTLET ROUGH-IN DETAIL WITH ACCESSIBLE LAY-IN CEILING



ROUGH-IN NOTES:

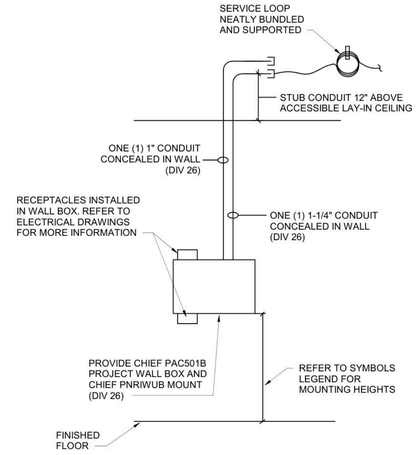
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2. MOUNTING HEIGHTS TO BE INSTALLED ABOVE COUNTERS OR IN CASEWORK SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.
3. ALL CONDUITS AND FITTINGS SHALL BE EMT.

1-GANG TELECOMMUNICATIONS OUTLET ROUGH-IN DETAIL WITH NO CEILING

SINGLE GANG ROUGH-INS SHALL BE INSTALLED FOR TELECOMMUNICATIONS OUTLETS WITH FOUR (4) DATA CABLES OR LESS AND AT LOCATIONS INDICATED IN DRAWINGS UNLESS NOTED OTHERWISE

1 NEW WALL CONSTRUCTION 1-GANG DATA/VIDEO ROUGH-IN DETAILS

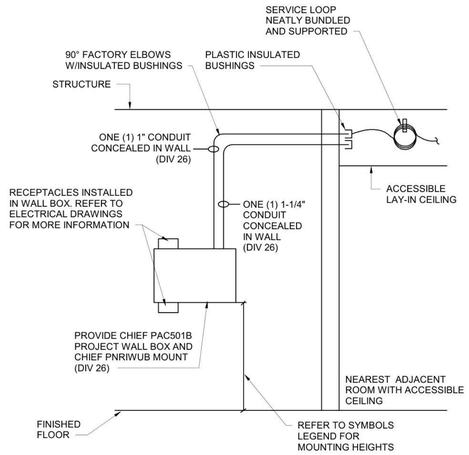
NOT TO SCALE



ROUGH-IN NOTES:

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2. MOUNTING HEIGHTS TO BE INSTALLED ABOVE COUNTERS OR IN CASEWORK SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.
3. ALL CONDUITS AND FITTINGS SHALL BE EMT.

VIDEO OUTPUT WALLBOX ROUGH-IN DETAIL WITH EXPOSED OR FINISHED CEILING



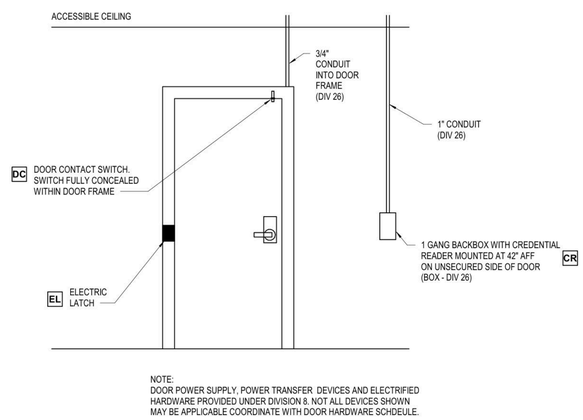
ROUGH-IN NOTES:

1. PROVIDE PULL STRINGS IN ALL CONDUITS. PULL STRINGS SHALL BE INSTALLED IN EMPTY AND FULL CONDUITS.
2. MOUNTING HEIGHTS TO BE INSTALLED ABOVE COUNTERS OR INCASEWORK SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.
3. ALL CONDUITS AND FITTINGS SHALL BE EMT.

VIDEO OUTPUT WALLBOX ROUGH-IN DETAIL WITH EXPOSED OR FINISHED CEILING

2 NEW WALL CONSTRUCTION VIDEO OUTLET ROUGH-IN DETAILS

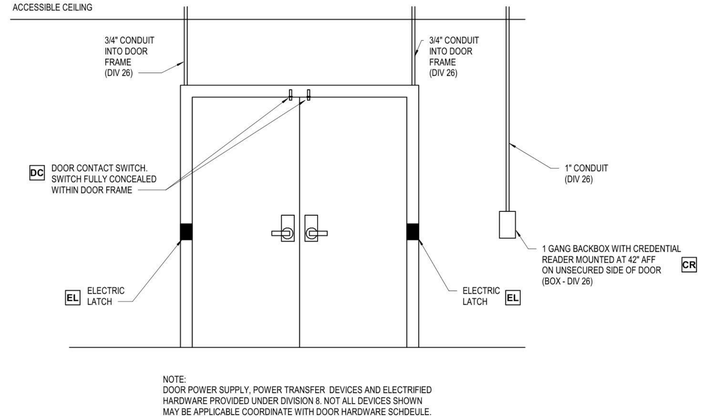
NOT TO SCALE



NOTE:
DOOR POWER SUPPLY, POWER TRANSFER DEVICES AND ELECTRIFIED HARDWARE PROVIDED UNDER DIVISION 8. NOT ALL DEVICES SHOWN MAY BE APPLICABLE COORDINATE WITH DOOR HARDWARE SCHDEULE.

3 TYPICAL SECURED SINGLE DOOR RISER

NOT TO SCALE



NOTE:
DOOR POWER SUPPLY, POWER TRANSFER DEVICES AND ELECTRIFIED HARDWARE PROVIDED UNDER DIVISION 8. NOT ALL DEVICES SHOWN MAY BE APPLICABLE COORDINATE WITH DOOR HARDWARE SCHDEULE.

4 TYPICAL SECURED DOUBLE DOOR RISER

NOT TO SCALE

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OLUWASEUN ODUKOMAIYA REGISTERED No. 11300632 STATE OF INDIANA PROFESSIONAL ENGINEER
5/15/2026
KBSO #26029

PROJECT NUMBER: 260060

REVISION SCHEDULE

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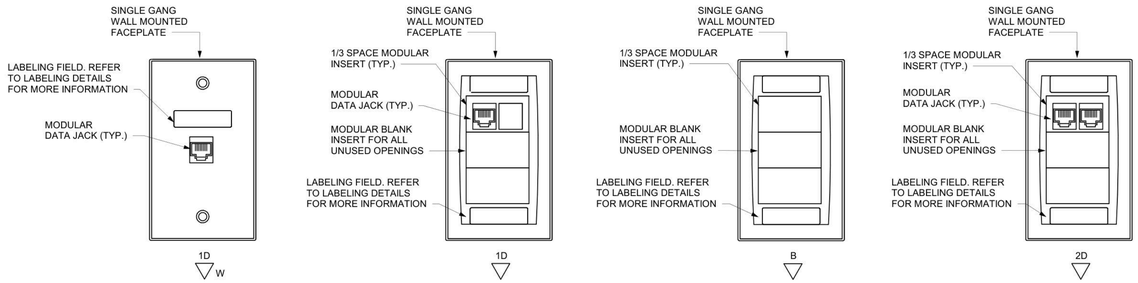
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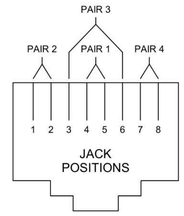
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SHEET NUMBER: T501

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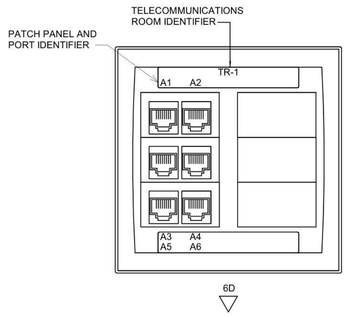


1 FACEPLATE DETAILS
NOT TO SCALE

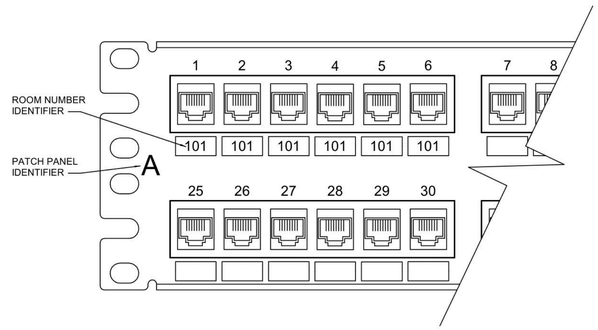


WIRE DIAGRAM FOR T568B	
RJ45 PIN #	**WIRE COLOR**
1	WHITE/ORANGE
2	ORANGE
3	WHITE/GREEN
4	BLUE
5	WHITE/BLUE
6	GREEN
7	WHITE/BROWN
8	BROWN

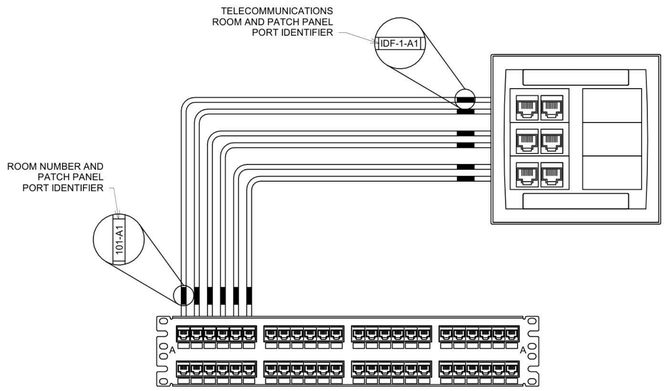
2 T568B JACK WIRING DETAIL
NOT TO SCALE



FACEPLATE LABELING DETAIL



COPPER PATCH PANEL LABELING DETAIL



HORIZONTAL DATA CABLE LABELING DETAIL

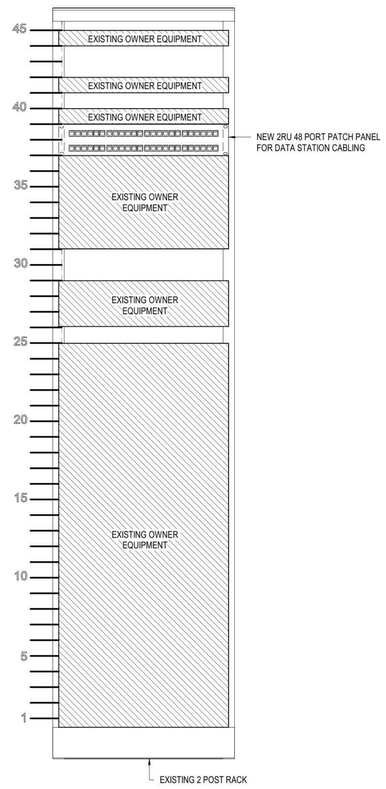
TELECOMMUNICATIONS LABELING GENERAL NOTES:

A. LABELS INDICATED ARE FOR REFERENCE ONLY. CONFIRM FINAL LABELING SCHEME WITH OWNER PRIOR TO LABELING. LABELING SCHEME SHALL BE SUBMITTED AS PART OF THE SUBMITAL DOCUMENTATION.

B. CONFIRM FINAL ROOM NUMBERS WITH OWNER PRIOR TO FINAL LABELING.

C. QUANTITY OF CABLES AND CONNECTOR TYPES ARE FOR REFERENCE ONLY. REFER TO SPECIFICATIONS AND RISER DIAGRAM FOR EXACT QUANTITIES AND CONNECTOR TYPE.

3 LABELING DETAILS
NOT TO SCALE



4 EXSITING MDF - TECHNOLOGY RACK ELEVATION
NOT TO SCALE

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One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:



PROJECT NUMBER:
260060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
5/15/26	EAG	MLM

DRAWING TITLE:
TECHNOLOGY DETAILS

SHEET NUMBER:
T502

Autodesk Docs://26029 - City of Carmel Fire Station #46/26029 City of Carmel Fire Station #46 TECH v24.rvt
5/15/2026 12:43:08 PM

Electrician Rough In instructions:

Note: All locations subject to verification by FD.

- 2 ea. IP drops are to be provided in the IT Equipment Room to connect the fire station alerting system to the E911 dispatch center equipment headend.
- 4 ea.120 VAC NEMA 5-15R outlets are required in the 2nd floor IT Equipment room for sole use by the fire station alerting system.
- A ground point shall be provided in the IT equipment room to bond the fire station alerting system to.
- All cables to be ran with a minimum of 4' slack left above ceiling, with an additional 2' dropped down through hard pan ceilings, centered between joists, for all ceiling mounted equipment.
- Ceiling mounted speakers requires a minimum of 6" clearance above the ceiling to accommodate installation. Speakers to be centered between ceiling joists.
- Volume controls to be installed into 4x4 deep boxes with single gang mud rings.
- Strobe lights to be installed in a into 4x4 deep boxes with single gang mud ring. Strobe Lights to be wall mounted at 7' height.
- Doorbells to be installed in a 1X2 deep box.
- Locution Provided Zone trackers require 1 ea. 15A 120 VAC outlet in addition to dedicated CAT5 drop. See separately provided detailed installation and rough-in instructions.
- Locution Provided Red Lights to be installed in 4x4 deep boxes with a double gang mud ring. All other red lights to be installed directly to hard pan ceiling.
- No boxes required for ERS Wireless provided speakers or Night Vision Lights, just labeled cables hanging from ceiling/through walls.

ERS Wireless Provided Equipment

- Drop Ceiling Speaker
- Hard Pan Ceiling Speaker
- Weatherproof Horn Speaker
- Soundsphere Speaker
- 10W Volume Control
- Blue Strobe Light
- Blue Strobe Bar
- Red Night Vision Light
- Doorbell

ERS Cable Descriptions

Colors preliminary, dependent on availability. Final colors will be communicated with electrician upon material order being placed.

1. Home runse, each consisting of 1 pr 16 AWG shielded black. Home run to ERS Wireless provided terminal strips from ERS Wireless provided speakers.
2. Home runse, each consisting of 1 pr 16 AWG unshielded orange. Home run to ERS Wireless provided terminal strips from ERS Wireless provided NVI LEDs and Strobes
3. Home runse, each consisting of 1 pr 16 AWG unshielded neutral. Home run to ERS Wireless provided terminal strip for ERS Wireless provided doorbell buttons

DISCLAIMER REGARDING LOCUTION EQUIPMENT AND CABLING

ERS Wireless is providing this set of drawings with ERS Wireless equipment and cabling with the assumed Locution provided equipment and cabling. In no way is ERS Wireless responsible for accuracy of ultimate equipment count or circuit plan of cabling. ERS Wireless is providing this overlay as a courtesy to the fire department in order for their electrician low voltage contractors to rough in and pull cables during construction phase in the absence of Locution prints. ERS Wireless has made every effort to make these prints as accurate as possible.

Projected Locution Provided Equipment

- Locution Speaker (type/model tbd)
- Locution NVI Light (type/model tbd)
- Locution Volume Control (type/model tbd)
- Locution Day/Night Switch (type/model tbd)
- Locution Zone Tracker (type/model tbd)
- Locution ZoneCabinet (type/model tbd)

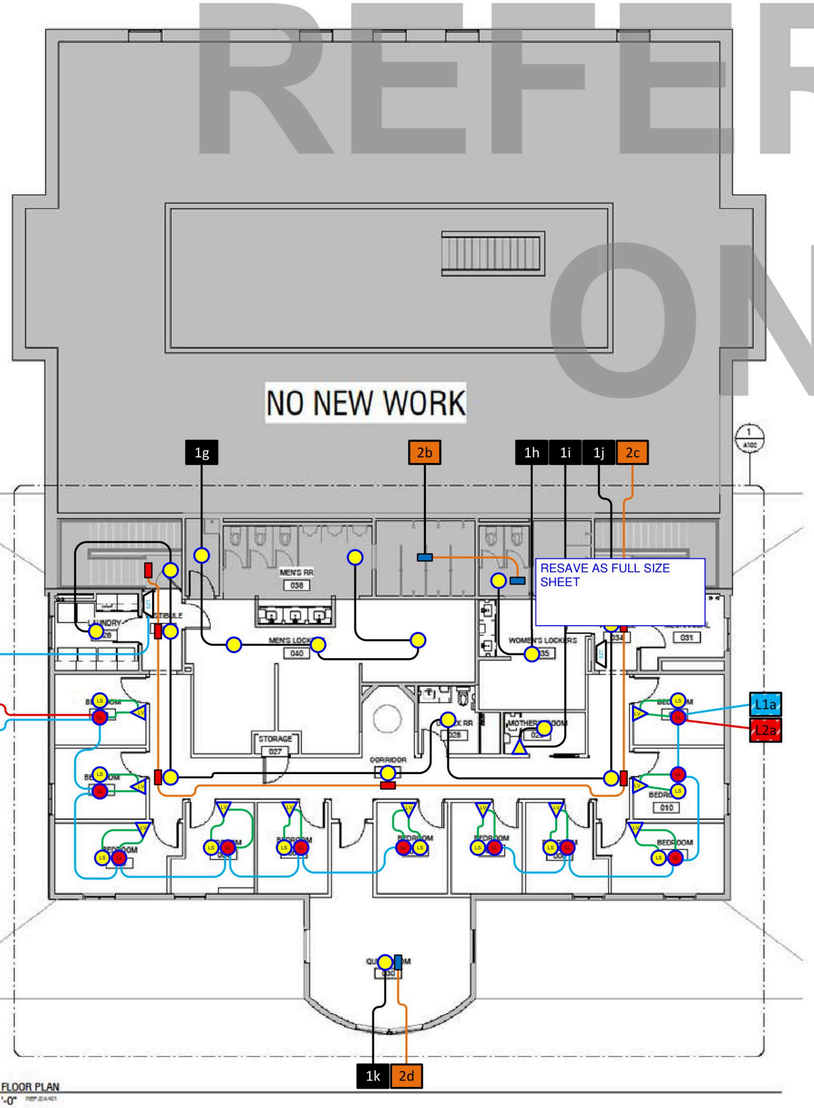
Projected Locution Cable Descriptions

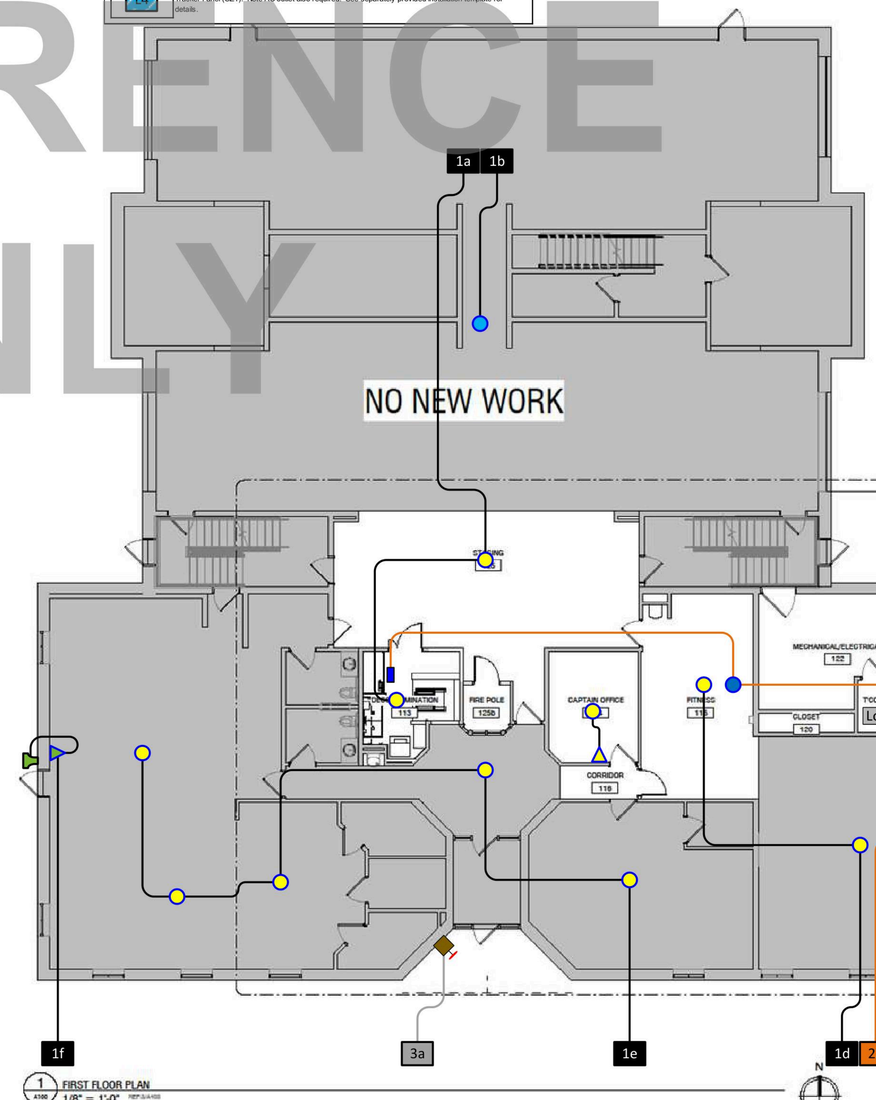
L1. Home runs, each consisting of 1 a. CAT5e LOCUTION provided cable to LOCUTION equipment cabinet. 1 ea. CAT5e jumper to adjacent dorm room EZ NVI. #16 AWG GREEN striped LOCUTION supplied speaker wire to from NVI to Volume Control, to dorm speaker.

L2. Home runs, each consisting of one (1) #16 AWG RED striped LOCUTION supplied wire to equipment cabinet from EZ NVI.

L3. Home runs, each consisting of one (1) #16 AWG PURPLE striped LOCUTION supplied wire to equipment cabinet from manual DAY/NIGHT switch.

L4. Home runs, each consisting of one (1) CAT 5e data cable to NETWORK SWITCH from Station Zone Tracker Panel (SZT). Note AC outlet also required. See separately provided installation template for details.





LOCUTION SYSTEM DESIGN BY ERS, PROVIDED 6/11/2026

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:

DRAWING TITLE:
OVERALL PLANS

SHEET NUMBER:
A100

FOR REFERENCE ONLY

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CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

CARMEL, INDIANA

CONSTRUCTION DOCUMENTS

JUNE 30, 2026



OWNER'S REPRESENTATIVE
AND
CONSTRUCTION MANAGER:
CTI Construction, LLC
1016 3rd Avenue SW Suite 200
Carmel, IN 46032
Ph: 317.573.6281
Fax: 317.573.6857

DLZ PROJECT NO. 2563-4069-90

ARCHITECT/ENGINEER:
DLZ Indiana, LLC
138 N. Delaware St.
Indianapolis, IN 46204
Ph: 317.633.4120
www.dlz.com

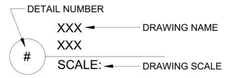
DATA CONSULTANT
KBSO CONSULTING
275 Veterans Way, Suite 300
Carmel, IN 46032
Ph: 317.344.8044
www.KBSOconsulting.com

EACH SEAL APPLIES TO ITS DESIGNATED DISCIPLINE.

ARCHITECTURAL	MECHANICAL/PLUMBING	ELECTRICAL
HENRY W. STELLEMA REGISTERED No. 00900115 STATE OF INDIANA ARCHITECT 07/01/2026	SIDDHARTH S. BHAT REGISTERED No. 12300004 STATE OF INDIANA PROFESSIONAL ENGINEER 06/30/2026	MICHAEL S. KRIZMAN REGISTERED No. 12300530 STATE OF INDIANA PROFESSIONAL ENGINEER 06/30/2026
Henry W. Stellema, AIA, CDT	Siddharth S. Bhat, PE, LEED AP	Michael Krizman, PE

SYMBOLS

DRAWING TITLE



ROOM NAME AND NUMBER



DOOR MARK TARGET



KEYNOTE TARGET



WALL TYPE TARGET



WINDOW TARGET



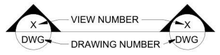
EXTERIOR ELEVATION TARGET



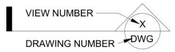
INTERIOR ELEVATION TARGET



BUILDING SECTION TARGET



WALL SECTION TARGET

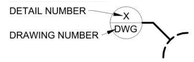


SECTION DETAIL TARGET



VERTICAL ELEVATION BUBBLE

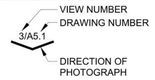
DETAIL TARGET



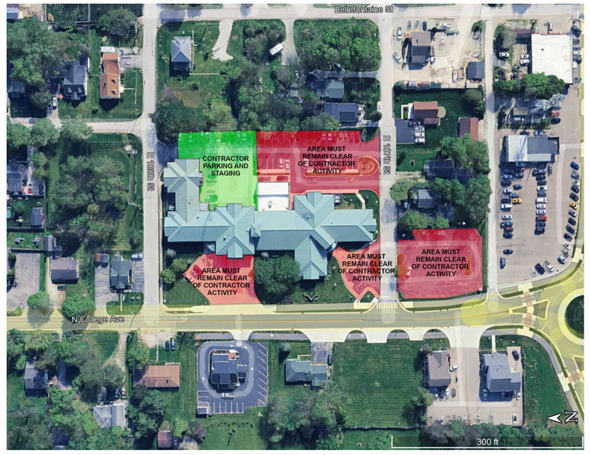
NORTH ARROW



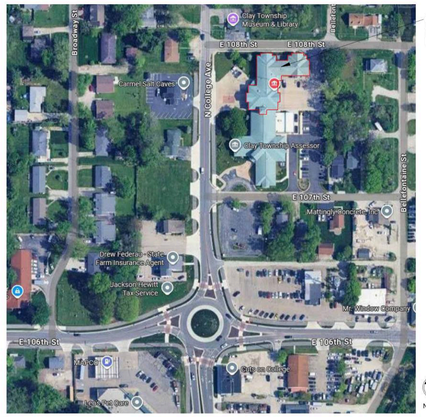
PHOTOGRAPH TARGET



STAGING MAP



LOCATION MAP



CARMEL FIRE DEPARTMENT - STATION 345
10701 N COLLEGE AVE, INDIANAPOLIS,
INDIANA 46280

GENERAL NOTES

A. CONTRACTOR IS RESPONSIBLE TO CONFORM WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS INCLUDING APPLICABLE ORDINANCES AND REFERENCED STANDARDS.

B. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO SUBMITTING A BID OR BEGINNING ANY WORK. CONDITIONS FOUND TO BE IN VARIANCE FROM THE INFORMATION IN THE DRAWINGS OR PROJECT MANUAL SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING FOR CLARIFICATION.

C. KEYNOTES ARE MEANT AS A GENERAL GUIDE FOR TYPICAL LOCATIONS. CONTRACTOR TO PERFORM FULL EXTENT OF WORK REQUIRED TO ACCOMPLISH DESIGN INTENT. THE ABSENCE OF A KEYNOTE DOES NOT ABSOLVE THE CONTRACTOR FROM PROVIDING THE FEATURE GRAPHICALLY INDICATED ON THE DRAWINGS.

D. SPECIFIC WORK ITEMS SHALL BE COORDINATED AND INTERFACED WITH ALL OTHER TRADES TO ALLOW FOR NEW CONSTRUCTION AND COMPLETE INSTALLATION AS REQUIRED TO ACCOMPLISH DESIGN INTENT.

E. REFER TO DRAWINGS OF EACH TRADE OR DISCIPLINE FOR ADDITIONAL GENERAL NOTES AND INFORMATION, INCLUDING CIVIL/SITE DEVELOPMENT, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL.

F. CONTRACTOR IS RESPONSIBLE FOR ALL WORK IDENTIFIED ON ALL DRAWINGS AND INFORMATION IN THE PROJECT MANUAL, AS A COMPLETE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SPECIFIC SCOPE OF WORK FOR ANY SUBCONTRACTORS FOR THIS PROJECT.

G. FIELD VERIFY ACTUAL LOCATIONS OF EXISTING UNDERGROUND UTILITIES, STRUCTURES, WATER LINES, STORM AND SANITARY LINES, GAS LINES, ELECTRICAL CONDUIT, AND OTHER UNDERGROUND UTILITIES PRIOR TO PERFORMING EARTHWORK, EXCAVATION, OR UTILITY WORK. ENGAGE THE SERVICES OF A PRIVATE UTILITY LOCATE COMPANY IF NECESSARY TO COMPLETELY LOCATE EXISTING UNDERGROUND UTILITIES AND STRUCTURES.

H. LOCATION OF ALL TEMPORARY FACILITIES SHALL BE COORDINATED WITH OWNER AND ARCHITECT PRIOR TO MOBILIZATION ON-SITE, INCLUDING BUT NOT LIMITED TO TEMPORARY STAGING AREA, MATERIAL STORAGE AREA, ACCESS DRIVE(S), PARKING AREA, TOPSOIL STOCKPILE AREA, WASTE DISPOSAL AREA, FIELD OFFICES AND TEMPORARY FACILITIES, JOB SIGN, AND TEMPORARY FENCING.

I. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MISCELLANEOUS BLOCKING REQUIRED FOR INSTALLATION OF ALL BUILDING COMPONENTS, INCLUDING BUT NOT LIMITED TO FURNISHINGS, FIXTURES, EQUIPMENT, HARDWARE, BRACKETS, AND OWNER-PROVIDED EQUIPMENT. CONTRACTOR SHALL COORDINATE SPECIFIC REQUIREMENTS ASSOCIATED WITH EACH TRADE AND WITH OWNER'S REPRESENTATIVE.

J. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MISCELLANEOUS WOOD AND METAL TRIM, FLASHING, CLIP ANGLES, ANCHORS, SUPPORTS, AND CLOSURE TRIM REQUIRED TO PROVIDE A COMPLETE, UNIFORM, AND WEATHERTIGHT ASSEMBLY AS REQUIRED TO ACCOMPLISH THE DESIGN INTENT.

K. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORY COMPONENTS AS REQUIRED TO FULLY COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.

L. CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL WALLS AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, FIRE PROTECTION OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS DOORS SHALL BE OF AN APPROPRIATE SIZE REQUIRED FOR EACH APPLICATION. WHERE APPLICABLE, ACCESS DOORS SHALL MATCH THE FIRE RATING OF THE WALL ASSEMBLY.

M. WHERE DISCREPANCIES EXIST IN THE CONTRACT DOCUMENTS INCLUDING DISCREPANCIES BETWEEN DRAWINGS AND PROJECT MANUAL, CONTRACTOR SHALL REQUEST CLARIFICATION IN WRITING FROM ARCHITECT. THE CONTRACTOR SHALL NOT ASSUME ANY ITEM TAKES PRECEDENCE OVER THE OTHER. ANY ACTION THE CONTRACTOR MAKES PRIOR TO NOTIFICATION IN WRITING SHALL BE SOLELY AT THE CONTRACTOR'S RISK.

N. CONTRACTOR SHALL SEAL ALL PENETRATIONS IN EXTERIOR WALL AND ROOF ASSEMBLIES WITH APPROPRIATE JOINT SEALANT(S) AND FLASHING(S) TO MAINTAIN A WEATHERTIGHT AND AIRTIGHT BUILDING ENVELOPE. ALL JOINTS AND PENETRATIONS SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO MINIMIZE AIR LEAKAGE, INCLUDING THE FOLLOWING:
1. JOINTS AROUND FENESTRATION AND DOOR FRAMES.
2. JUNCTIONS BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AT BUILDING CORNERS, BETWEEN WALLS AND FLOORS OR ROOFS, AND BETWEEN WALLS AND ROOF OR WALL PANELS.
3. OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH ROOFS, WALLS, AND FLOORS.
4. JOINTS, SEAMS, AND PENETRATIONS OF VAPOR RETARDERS.
5. ALL OTHER OPENINGS IN THE BUILDING ENVELOPE.

O. COORDINATE WITH OTHER CONSTRUCTION ACTIVITIES AND CONSTRUCTION SEQUENCING WITH OTHER PROJECT(S) AND WORK BEING PERFORMED CONCURRENTLY ON-SITE.

P. CONTRACTOR TO PROTECT ALL ITEMS WITHIN THE CONSTRUCTION LIMITS (INCLUDING SITE ELEMENTS) THAT ARE DESIGNATED TO REMAIN; ITEMS DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION.

Q. ALL PENETRATIONS AND JOINTS IN FIRE-RATED WALL ASSEMBLIES AND FLOOR/CEILING ASSEMBLIES SHALL BE SEALED WITH THE FIRESTOPPING SYSTEM OR FIRE-RESISTIVE JOINT SYSTEM WHICH IS THE MOST APPROPRIATE FOR THE SPECIFIC APPLICATION BASED ON THE TYPE OF ASSEMBLY AND TYPE OF PENETRATING ELEMENT. SYSTEMS SHALL BE U.L.-LISTED FOR EACH APPLICATION.

R. THESE DRAWINGS SHALL NOT BE SCALED TO OBTAIN DIMENSIONS. IF THE DIMENSIONS CANNOT BE DETERMINED BY THE INFORMATION GIVEN, CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, OR FACE OF CONCRETE, UNLESS NOTED OTHERWISE. CEILING HEIGHT DIMENSIONS ARE FROM FINISHED FLOOR TO FACE OF FINISHED CEILING MATERIALS, UNLESS NOTED OTHERWISE.

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AD2.2 SECOND FLOOR REMOVAL FLOOR PLAN
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E6.3 SCHEDULES
E6.4 SCHEDULES & DETAILS

NOTE:
ELEMENTS ON THIS DRAWING ARE IDENTIFIED BY VARIOUS COLORS. IF THIS NOTE IS NOT RED, THIS DRAWING IS NOT IN COLOR AND NEEDS TO BE REPRINTED IN COLOR.

DLZ
Connect. Build. Thrive.
DLZ Indiana, LLC

HENRY W. STELLMAN
REGISTERED
No. 00900115
STATE OF INDIANA
ARCHITECT
9/20/2010

NO. | REVISION | DATE

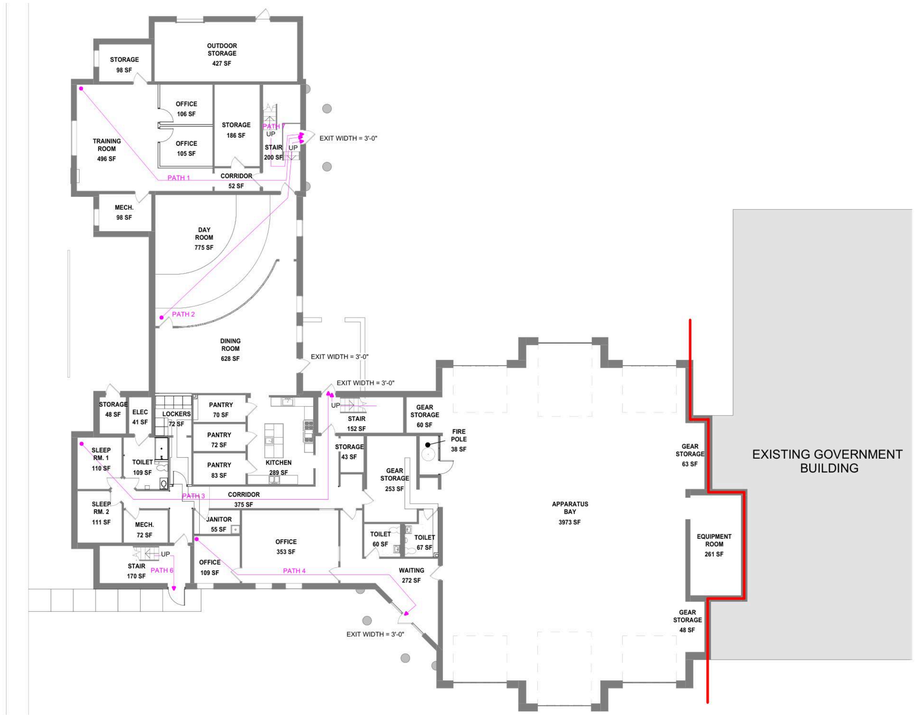
DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRV'D:
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION
INDIANA

GENERAL NOTES AND INFORMATION

DRAWING NUMBER G1.1 GENERAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Central.rvt
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1 **FIRST FLOOR CODE COMPLIANCE PLAN**
SCALE: 1/16" = 1'-0"
NORTH

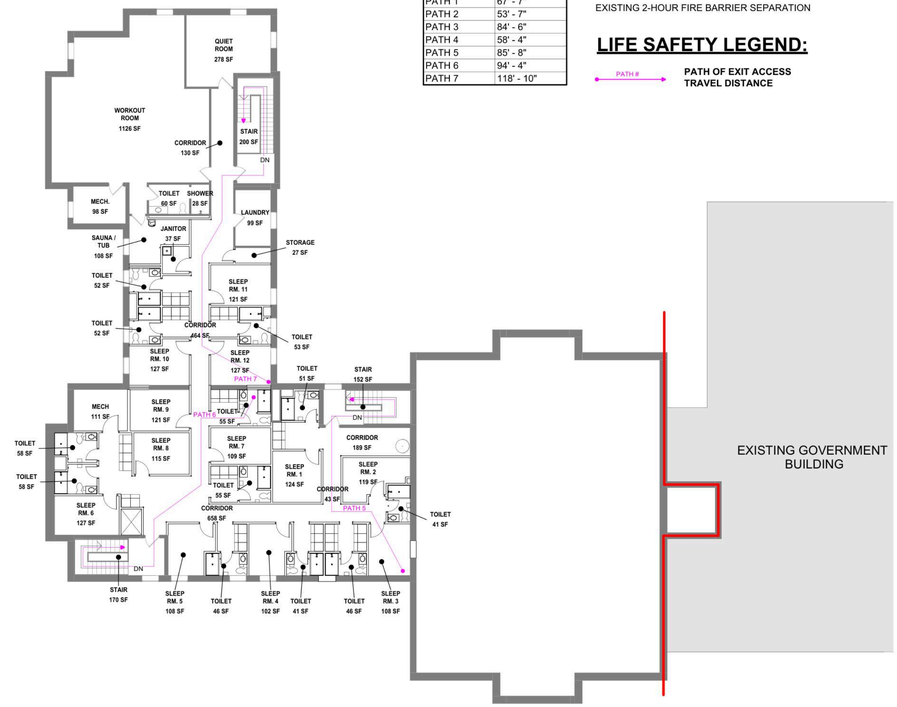
TRAVEL DISTANCES	
Travel Path	Travel Distance
PATH 1	67' - 7"
PATH 2	53' - 7"
PATH 3	84' - 6"
PATH 4	58' - 4"
PATH 5	85' - 8"
PATH 6	94' - 4"
PATH 7	118' - 10"

CODE COMPLIANCE LEGEND:

EXISTING 2-HOUR FIRE BARRIER SEPARATION

LIFE SAFETY LEGEND:

PATH # — **PATH OF EXIT ACCESS TRAVEL DISTANCE**



2 **SECOND FLOOR CODE COMPLIANCE PLAN**
SCALE: 1/16" = 1'-0"
NORTH

BUILDING CODE SUMMARY

A. PROJECT SUMMARY

1. RENOVATION GROSS SQUARE FOOTAGE:

FIRST FLOOR	6678 SF
SECOND FLOOR	4767 SF
Grand total	11445 SF

2. TWO STORY FIRE STATION
3. STRUCTURAL FRAMING SYSTEM
   a. FIRST FLOOR: CMU LOAD BEARING WALLS
   b. SECOND FLOOR: CMU LOAD BEARING WALLS
4. FLOOR SYSTEM
   a. FIRST FLOOR: CONCRETE SLAB-ON-GRADE
   b. SECOND FLOOR: 4" COMPOSITE METAL DECK ON BAR JOISTS
5. FOUNDATION SYSTEM
   a. CAST IN PLACE CONCRETE FOUNDATION WALLS AND FOOTINGS
6. ROOFING SYSTEM
   a. STANDING SEAM METAL ROOF OVER 5/8" PLYWOOD OVER WOOD TRUSSES

C. OCCUPANCY CLASSIFICATION
1. USE GROUP B

D. OCCUPANCY SEPARATION (TABLE 508.3.3)
1. NONE REQUIRED

E. CONSTRUCTION CLASSIFICATION
1. ADDITION: TYPE VN

B. GOVERNING BUILDING STANDARDS
1. BUILDING CODE: 2014 **INDIANA** BUILDING CODE (2012 INTERNATIONAL BUILDING CODE WITH INDIANA AMENDMENTS)
2. PLUMBING CODE: 2012 **INDIANA** PLUMBING CODE (UNIFORM PLUMBING CODE, 2006 EDITION WITH INDIANA AMENDMENTS)
3. ELECTRICAL CODE: 2009 **INDIANA** ELECTRICAL CODE (NATIONAL ELECTRICAL CODE, 2008 EDITION WITH INDIANA AMENDMENTS)
4. MECHANICAL CODE: 2014 **INDIANA** MECHANICAL CODE (2012 INTERNATIONAL MECHANICAL CODE WITH INDIANA AMENDMENTS)
5. ENERGY CODE: 2010 **INDIANA** ENERGY CONSERVATION CODE (ASHRAE 90.1-2007 WITH INDIANA AMENDMENTS)
6. FIRE CODE: 2014 **INDIANA** FIRE CODE (2012 INTERNATIONAL FIRE CODE WITH INDIANA AMENDMENTS)

H. OCCUPANT LOAD

ROOM OCCUPANCY SCHEDULE

ROOM NO.	ROOM NAME	(ASSIGNABLE) AREA	OCCUPANCY FACTOR	NO. OF OCCUPANTS
FIRST FLOOR				
100	STORAGE	98 SF	300	1
101	OUTDOOR STORAGE	427 SF	300	2
102	TRAINING ROOM	496 SF	15	34
102A	OFFICE	106 SF	100	2
102B	OFFICE	105 SF	100	2
103	MECH.	98 SF	300	1
104	CORRIDOR	52 SF	0	
105	STORAGE	186 SF	300	1
107	DAY ROOM	775 SF	45	18
108	DINING ROOM	628 SF	15	42
108A	LOCKERS	72 SF	300	1
109	TOILET	109 SF	0	
110	ELEC	41 SF	300	1
111	SLEEP RM. 1	110 SF	200	1
112	SLEEP RM. 2	111 SF	200	1
113	MECH.	72 SF	300	1
115	JANITOR	55 SF	300	1
116	CORRIDOR	375 SF	0	
117	KITCHEN	289 SF	200	2
118	PANTRY	83 SF	300	1
119	PANTRY	72 SF	300	1
120	PANTRY	70 SF	300	1
122	STORAGE	43 SF	300	1
123	OFFICE	353 SF	100	4
124	OFFICE	109 SF	100	2
125	WAITING	272 SF	0	
126	TOILET	60 SF	0	
127	APPARATUS BAY	3973 SF	200	20
128	GEAR STORAGE	48 SF	200	1
129	EQUIPMENT ROOM	261 SF	200	2
130	GEAR STORAGE	63 SF	200	1
131	GEAR STORAGE	60 SF	200	1
132	FIRE POLE	38 SF	0	
133	GEAR STORAGE	253 SF	200	2
134	TOILET	67 SF	0	
135	STORAGE	48 SF	300	1
ST 1	STAIR	152 SF	0	
ST 2	STAIR	170 SF	0	
ST 3	STAIR	200 SF	0	
		10600 SF		149

ROOM OCCUPANCY SCHEDULE

ROOM NO.	ROOM NAME	(ASSIGNABLE) AREA	OCCUPANCY FACTOR	NO. OF OCCUPANTS
SECOND FLOOR				
202	CORRIDOR	189 SF	0	
203	TOILET	51 SF	0	
204	SLEEP RM. 1	124 SF	200	1
205	CORRIDOR	43 SF	0	
206	SLEEP RM. 2	119 SF	200	1
207	TOILET	41 SF	0	
208	SLEEP RM. 3	108 SF	200	1
209	TOILET	46 SF	0	
210	TOILET	41 SF	0	
211	SLEEP RM. 4	102 SF	200	1
212	TOILET	46 SF	0	
213	SLEEP RM. 5	108 SF	200	1
214	CORRIDOR	658 SF	0	
215	SLEEP RM. 6	127 SF	200	1
216	TOILET	58 SF	0	
217	TOILET	58 SF	0	
218	MECH	111 SF	300	1
219	SLEEP RM. 8	115 SF	200	1
220	TOILET	55 SF	0	
221	SLEEP RM. 7	109 SF	200	1
222	TOILET	55 SF	0	
223	SLEEP RM. 9	121 SF	200	1
224	CORRIDOR	464 SF	0	
225	SLEEP RM. 12	127 SF	200	1
226	SLEEP RM. 10	127 SF	200	1
227	TOILET	53 SF	0	
228	TOILET	52 SF	0	
229	SLEEP RM. 11	121 SF	200	1
230	TOILET	52 SF	0	
231	JANITOR	37 SF	300	1
232	STORAGE	27 SF	300	1
233	LAUNDRY	99 SF	300	1
234	CORRIDOR	130 SF	0	
235	WORKOUT ROOM	1126 SF	50	23
236	MECH.	98 SF	300	1
237	SAUNA / TUB	108 SF	300	1
238	TOILET	60 SF	0	
239	SHOWER	28 SF	200	1
240	QUIET ROOM	278 SF	100	3
		5475 SF		45
Grand total		16075 SF		194

I. EXIT WIDTH REQUIRED

1. OCCUPANT LOAD (MAXIMUM) = 194 PERSONS
2. REQUIRED EXIT WIDTH = 194 PERSONS x 0.15" PER PERSON = 29"
   WIDTH PROVIDED = 180"

J. FIRE SPRINKLER SYSTEM

THE BUILDING SHALL BE PROVIDED WITH A TYPE R3 AUTOMATIC FIRE SUPPRESSION SYSTEM ON THE FIRST AND SECOND FLOORS OF THE FIRE STATION AREA. NO SYSTEM SHALL BE INSTALLED IN THE APPARATUS BAY.

K. FIRE ALARM SYSTEM

THE BUILDING HAS AN EXISTING FULLY ADDRESSABLE FIRE ALARM SYSTEM THROUGHOUT.

M. PLUMBING FIXTURES PROVIDED (TABLE 29, INDIANA AMENDMENTS)

OCCUPANCY	ANTICIPATED MAX. OCCUPANT LOAD	WATER CLOSETS		LAVATORIES		(SEE NOTE 2) URINALS		DRINKING FOUNTAIN		SHOWERS		SERVICE SINK		EM. SHOWER / EYE WASH	
		REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.	REQ'D	PROV.
USE GROUP B	194	5	16	4	16	0	2	2	3	0	12	1	2	0	0
TOTAL:	194 MAX.														

NOTES:
1. WATER CLOSETS PROVIDED MEET THE MINIMUM NUMBER REQUIRED.
2. FOR EACH URINAL PROVIDED, A WATER CLOSET CAN BE DELETED AS LONG AS THE MINIMUM NUMBER OF WATER CLOSETS IS NOT LESS THAN 1/2 OF THE ORIGINAL NUMBER REQUIRED.

O. EXIT ACCESS DOORWAYS

WHERE 2 EXITS ARE REQUIRED, THE SEPARATION DISTANCE OF EXIT DOORS SHALL NOT BE LESS THAN 1/3 THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

NOTE:
ELEMENTS ON THIS DRAWING ARE IDENTIFIED BY VARIOUS COLORS. IF THIS NOTE IS NOT RED, THIS DRAWING IS NOT IN COLOR AND NEEDS TO BE REPRINTED IN COLOR.

DLZ Connect. Build. Thrive.
DLZ Indiana, LLC

HENRY W. STELLEMA REGISTERED No. 00900115 STATE OF INDIANA ARCHITECT
07/20/2026

DATE
REVISION
NO.

DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRVD: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

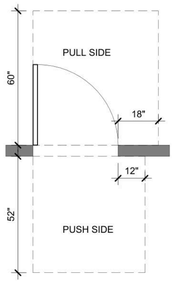
CARMEL INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

CODE ANALYSIS AND COMPLIANCE PLANS

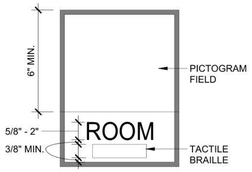
DRAWING NUMBER G1.2
GENERAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Architectural_Central.rvt
7/1/2026 3:02:41 PM

STANDARD AND ADA MOUNTING HEIGHTS



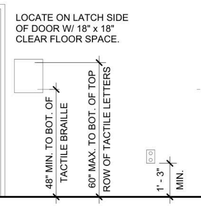
MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS WITH CLOSER AND LATCH



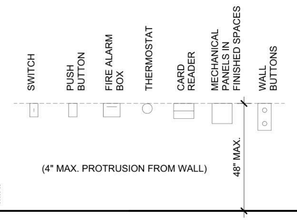
ROOM SIGNAGE DESIGN

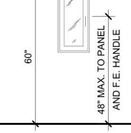


TACTILE SIGNAGE OR PLAQUE



ELECTRIC, TELEPHONE OR TV OUTLET (TYPICAL)

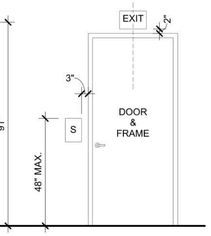




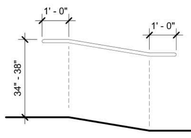
FIRE HOSE, EXTINGUISHER OR COMBINATION CABINET



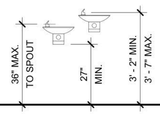
HALL LANTERN



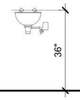
TYPICAL LIGHT SWITCH LOCATION, EXIT LIGHT ABOVE DOOR



HANDRAIL - RAMP



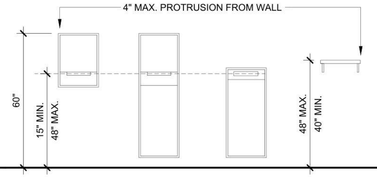
EWC OR DRINKING FOUNTAIN



SHOWER & EYE WASH



COAT HOOKS

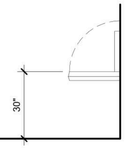


TOWEL DISPENSER OR MULTI-PURPOSE UNIT

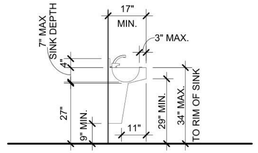
TOWEL DISPENSER & RECEPTACLE

WASTE RECEPTACLE

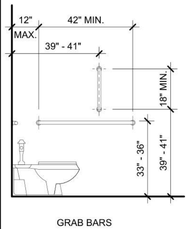
SHELF



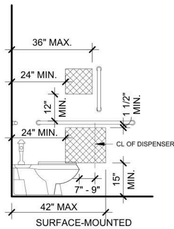
BABY CHANGING STATION



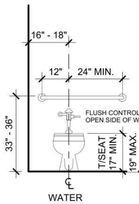
BARRIER FREE LAV, COUNTER, & CASEWORK



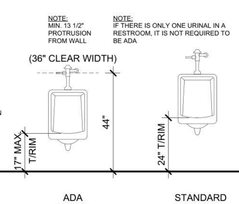
GRAB BARS



SURFACE-MOUNTED DISPENSERS

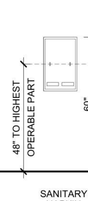


WATER CLOSET

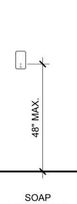


ADA URINAL

STANDARD URINAL



SANITARY NAPKIN VENDOR



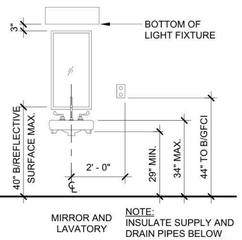
SOAP DISPENSER



SANITARY NAPKIN DISPOSAL



MIRROR NOT OVER SINK OR COUNTERTOP



MIRROR AND LAVATORY

NOTE:
INSULATE SUPPLY AND DRAIN PIPES BELOW LAVATORIES AND SINK.

ABBREVIATIONS

ABBREVIATIONS:

A.B.	ANCHOR BOLT
A/C	AIR CONDITIONING
A.D.	AREA DRAIN
ADD.	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFT	ATHLETIC FLOOR TILE
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
A/V	AUDIO VISUAL
ADMIN.	ADMINISTRATION
AGGR.	AGGREGATE
ALT.	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH.	ARCHITECT (ARCHITECTURAL)
ASPH.	ASPHALT
ASSOC.	ASSOCIATE
AVG	AVERAGE
B/	BOTTOM
BB	BOND BEAM
B.F.	BARRIER FREE
BFP	BACK FLOW PREVENTER
BL	BUILDING LINE
BM	BENCH MARK
BTU	BRITISH THERMAL UNIT
B/U	BUILT UP
BD	BOARD
BTWN	BETWEEN
BLDG	BUILDING
BM	BEAM
BR	BULLET RESISTANT
BRG	BEARING
BRZ	BRONZE
BSMT	BASEMENT
C.	CONDUIT
CAB.	CABINET
C.B.	CATCH BASIN
CB.	CORNER BAR
C.C.	CENTER TO CENTER
CEM.	CEMENT
CER.	CERAMIC
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
C.I.	CAST IRON
C.I.P.	CAST-IN-PLACE
CIR.	CIRCLE OR CIRCULAR
CJ	CONTROL JOINT
CL	CENTERLINE
C.L.	CONSTRUCTION LINE
CLG.	CEILING
CLOS.	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COMP.	COMPACTED
CONC.	CONCRETE
COND.	CONDENSATE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
COORD.	COORDINATE
CORR.	CORRIDOR
CORG.	CORRUGATED
CPT	CARPETING
CSJ	CONSTRUCTION JOINT
CTB	CERAMIC TILE BASE
CTF	CERAMIC TILE FLOOR
CTW	CERAMIC TILE WALL
CTR	CENTER OR CENTERING
CU	CUBIC
CW	COLD WATER
D.	DEEP
DF	DRINKING FOUNTAIN
DL	DEAD LOAD
DS	DOWN SPOUT
DBL	DOUBLE
DEG.	DEGREE
DEMO	DEMOLISH (ED)
DEPT.	DEPARTMENT
DIA	DIAMETER
DIM.	DIMENSION
DR	DOOR
DWG	DRAWING
DTL	DETAIL
E.	EAST
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EIFS	EXT. INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EMER.	EMERGENCY
E.PAN.	ELECTRICAL PANEL
E.W.	EACH WAY
EWC	ELECTRIC WATER COOLER
EL.	ELEVATION
ELEC.	ELECTRICAL OR ELECTRIC
ELEV.	ELEVATOR
ENG.	ENGINEER OR ENGINEERING
EQ	EQUAL
EQUIP.	EQUIPMENT
ETC.	ET CETERA
EXIST.	EXISTING
EXP	EXPOSED STRUCTURE
EXP.	EXPANSION
EXT.	EXTERIOR
FACP	FIRE ALARM CONTROL PANEL
FAI	FRESH AIR INTAKE
F.C.	FURNACE
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FM	FLOOR MOUNTED
FR	FIN RADIATION
F.S.	FOOD SERVICE
F.V.	FIELD VERIFY
FWC	FABRIC WALL COVERING
FIN.	FINISH
FLR	FLOOR
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE
GC	GENERAL CONTRACTOR
GRV	GRAVITY ROOF VENTILATOR
GL.	GLASS
GND.	GROUND
GR.	GRADE
GWB	GYPSUM WALL BOARD
H.	HIGH
H.B.	HOSE BIBB
HM	HOLLOW METAL
HOA	HAND-OFF-AUTOMATIC
HVAC	HEATING VENTILATING & AIR-CONDITIONING
HW	HOT WATER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HDWD.	HARDWOOD
HDWR.	HARDWARE
HT.(HGT.)	BUILDING LINE
HDP	HIGH DENSITY PARTICLE BOARD
HORIZ.	HORIZONTAL
HR.	HOUR
HYD.	HYDRAULIC
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
IR	INSIDE RADIUS
IN.	INCH
INFO.	INFORMATION
INSUL	INSULATION
INT.	INTERIOR
INV.	INVERT
JAN.	JANITOR OR JANITORIAL
J.B.	JUNCTION BOX
JCT.	JUNCTION
JT.	JOINT
K.D.	KILN-DRIED
KIT.	KITCHEN
KO	KNOCKOUT
KP.	KICK PLATE
L.	LEFT
LAM.	LAMINATED
LAV.	LAVATORY
LBS.	POUNDS
LG.	LARGE
LGTH	LENGTH
LH	LEFT HAND
LFT.(LF.)	LINEAR FEET
LHR	LEFT HAND REVERSE
L.L.	LIVE LOAD
L.O.A.	LENGTH OVER ALL
LIN.	LINEAR
LTG.	LIGHTING
MDP	MAIN DISTRIBUTION PANEL
MATL.	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEMB.	MEMBRANE
MEZZ.	MEZZANINE
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MISC.	MISCELLANEOUS
MIX.	MIXTURE
MK	MARK
MO	MASONRY OPENING
MSRY.	MASONRY
MTD	MOUNTED
MTL	METAL
MTG.	MOUNTING
N.	NORTH
NA(N/A)	NOT APPLICABLE
NIC	NOT IN CONTRACT
NF	NEAR FACE
N.O.P.	NOT OTHERWISE PROVIDED
NO.	NUMBER
NOM.	NOMINAL
NTS	NOT TO SCALE
OA.	OVERALL
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OC	ON CENTER
OD	OUTSIDE DIAMETER
O. TO O.	OUT TO OUT
OF	OUTSIDE FACE
OR	OUTSIDE RADIUS
OL.	OVERLOAD
OFC.	OFFICE
OH	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
OR.	OUTSIDE RADIUS
ORIG.	ORIGINAL
OZ	OUNCE
P.A.	PIPE ANCHOR
P.C.	PLUMBING CONTRACTOR
P.D.	PRESSURE DROP
PJF	PRE MOLDED JOINT FILLER
PRV	PRESSURE REDUCING VALVE
PASS.	PASSENGER
PAT.	PATTERN
PERP.	PERPENDICULAR
PF	PRE-FINISHED
PLAM	PLASTIC LAMINATE
PLAS.	PLASTIC
PLBG.	PLUMBING
PLY	PLYWOOD
PNEU.	PNEUMATIC
PNL	PANEL
PREFAB	PREFABRICATED
PROJ.	PROJECT
PT	PAINT
P.CONC.	PRECAST CONCRETE SLAB
PTN.	PARTITION
PV.	PAVERS
PVC	POLYVINYL CHLORIDE
QCV	QUICK COUPLER VALVE
QT	QUARRY TILE
QUAL.	QUALITY
QTY.	QUANTITY
R.	RIGHT
RAD.	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RBR	RUBBER
RD.	ROAD
RD	ROOF DRAIN
REC.	RECESSED
REF	REFRIGERATOR
REV.	REVISION
REM.	REMOVABLE
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RCP	REINFORCED CONCRETE PIPE
RE:	REFER TO:
RECPT	RECEPTACLE
RECT.	RECTANGLE OR RECTANGULAR
REINF.	REINFORCE (D) (ING) (MENT)
REQD.	REQUIRED
REV.	REVERSE
RFG.	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RLG.	RAILING
RM	ROOM
R.R.	RAIL ROAD
RT.	RIGHT
ROW (R/W)	RIGHT OF WAY
RVS.	REVERSE
RWC	MAIN WATER COLLECTOR
RWL	RAIN WATER LEADER
SA	SUPPLY AIR
SC	SEALED CONCRETE
SFS	STORE FRONT SYSTEM
SPS	STAND PIPE
S.	SOUTH
SS	STAINLESS STEEL
S. TO S.	STUD TO STUD
SHM	SECURITY HOLLOW METAL
SV	SHEET VINYL
SAN	SANITARY
SCHED	SCHEDULE
SECT	SECTION
SEW	SEWER
SHT	SHEET
SHWR	SHOWER
SIM.	SIMILAR
S.O.	SECTIONAL OVERHEAD
SPECS	SPECIFICATIONS
SPKR	SPEAKER
SQ.	SQUARE
ST	STEEL
STD	STANDARD
STOR.	STORAGE
STRUCT	STRUCTURAL
SUSP.	SUSPENDED
SW	SWITCH
T	TEMPERED
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/C	TOP CURB
TCC	TEMP. CONTROL CONTRACTOR
TCP	TEMP. CONTROL PANEL
TP	TEPID WATER
TWC	TEPID WATER CONTROLLER
TBB	TILE BACKER BOARD
TEL	TELEPHONE
TEMP.	TEMPERATURE
TERR	TERRAZZO
THRU	THROUGH
TLT	TOILET
TOL.	TOLERANCE
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UFD	UNDER FLOOR DUCT
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
UR	URINAL
UTIL.	UTILITY
VYL	VINYL
VAP.	VAPOR
VAR.	VARIES
VCB	VINYL COVE BASE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
VENT.	VENTILATE
VIF	VERIFY IN FIELD
VOL.	VOLUME
VP	VENT PIPE
VS	VENT STACK
VWC	VINYL WALL COVERING
W.	WEST
WC	WATER CLOSET
WD	WOOD
WF	WASH FOUNTAIN
W.H.	WALL HUNG
WH	WATER HEATER
WI	WROUGHT IRON
WP	WORKING POINT
WL	WIND LOAD
WM	WALK OFF MAT
WS	WORK SINK
WWF	WELDED WIRE FABRIC
WT.	WEIGHT
XFMR	TRANSFORMER
XFR	TRANSFER
YD	YARD
YCO	YARD CLEAN OUT
°	DEGREE
±	PLUS OR MINUS
Ø	DIAMETER
	CENTERLINE
P	PLATE
&	AND
x	BY
@	AT
#	NUMBER
W/	WITH

DLZ
Connect. Build. Thrive.
DLZ Indiana, LLC

RICHARD W. STELLMAN REGISTERED No. 00900115 STATE OF LOUISIANA ARCHITECT
9/20/2010

NO.	REVISION	DATE

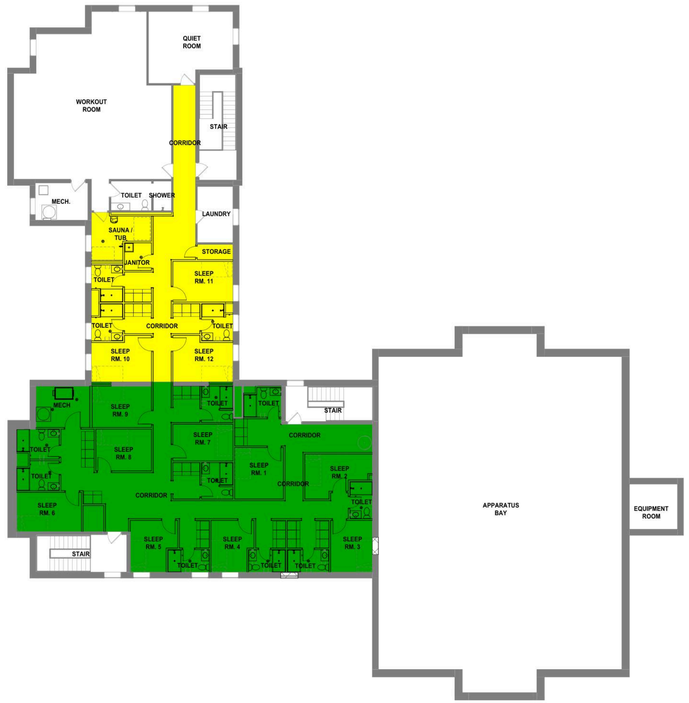
DRAWN: LDF
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION
ABBREVIATIONS AND ADA MOUNTING HEIGHTS

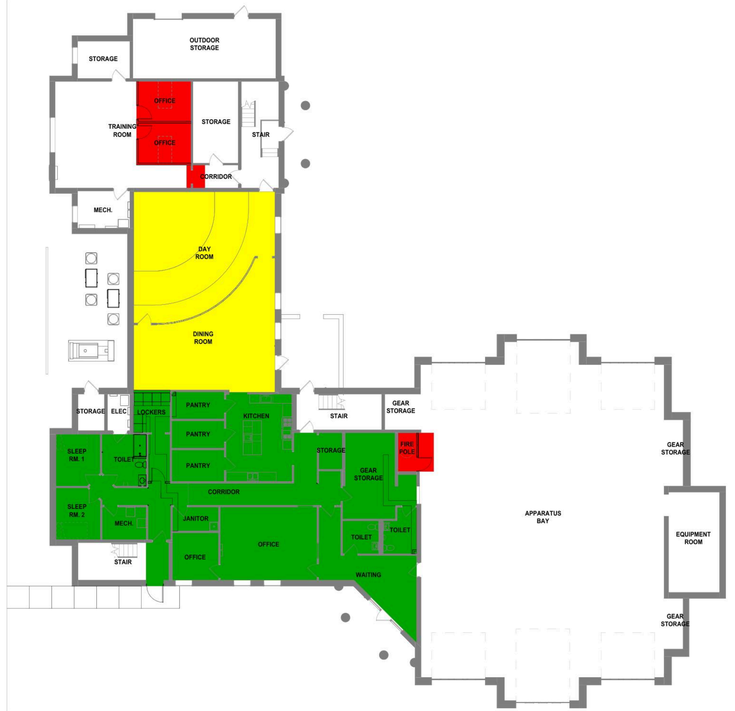
DRAWING NUMBER
G1.3
GENERAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Arch.rvt
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PHASING PLANS



3 **SECOND FLOOR PHASING PLAN**
SCALE: 1/16" = 1'-0"



1 **FIRST FLOOR PHASING PLAN**
SCALE: 1/16" = 1'-0"

PHASE 1:

FIRST FLOOR:
- ALL WORK ASSOCIATED WITH THE SLEEP ROOMS, SLAB CUTTING, AND LOCKERS
- NEW EXTERIOR DOOR TO BE INSTALLED
- LOCKERS NOT TO BE MOVED INTO LOCKER ROOM UNTIL PHASE 2 IS COMPLETE

SECOND FLOOR:
ALL WORK TO BE COMPLETED IN EXISTING SLEEP ROOM AREA
PIPES AND VENTS THAT ENTER THE PHASE 2 AREA ARE TO BE CAPPED UNTIL PHASE 2 BEGINS

PHASE 2:

FIRST FLOOR:
- CEILINGS IN THE DAY ROOM AND DINING ROOM ARE TO BE INSTALLED AFTER ALL ABOVE CEILING WORK IS COMPLETED

SECOND FLOOR:
- ALL WORK NOT COMPLETED IN PHASE ONE

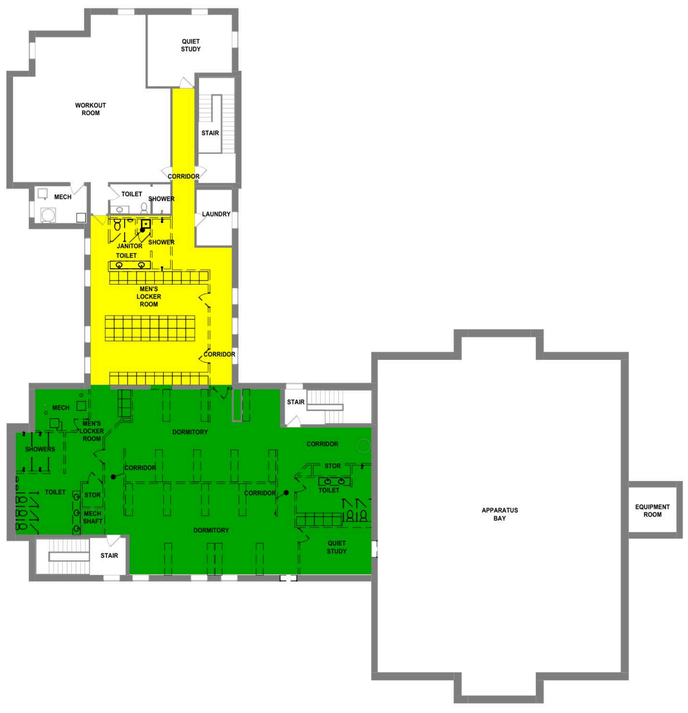
PHASE 3:

FIRST FLOOR:
- INSTALL THE STOREFRONT SYSTEM AT THE FIRE POLE
- CONSTRUCT THE NEW OFFICES IN THE EXISTING TRAINING ROOM

SECOND FLOOR:
N/A

PHASING LEGEND:

- PHASE 1
- PHASE 2
- PHASE 3



4 **SECOND FLOOR PHASING PLAN - REMOVAL**
SCALE: 1/16" = 1'-0"



2 **FIRST FLOOR PHASING PLAN - REMOVAL**
SCALE: 1/16" = 1'-0"

NOTE:
ELEMENTS ON THIS DRAWING ARE IDENTIFIED BY VARIOUS COLORS. IF THIS NOTE IS NOT RED, THIS DRAWING IS NOT IN COLOR AND NEEDS TO BE REPRINTED IN COLOR.

DLZ Indiana, LLC

HENRY W. STELLHORN REGISTERED No. 00900115 STATE OF INDIANA ARCHITECT
07/10/2026

NO.	REVISION	DATE

DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

PHASING PLANS

DRAWING NUMBER G1.4 GENERAL

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1 **FIRST FLOOR PLAN - REMOVAL**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO G SERIES DRAWINGS FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. REFER TO DRAWINGS OF ALL OTHER DISCIPLINES FOR ADDITIONAL REMOVALS AND SELECTIVE DEMOLITION ACTIVITIES.

C. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SELECTIVE DEMOLITION ACTIVITIES.

D. EXISTING TO REMAIN ITEMS SHALL BE PROTECTED THROUGHOUT.

E. THE DURATION OF THE PROJECT. IF ANY EXISTING ITEM IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPLACED OR RESTORED TO ITS ORIGINAL CONDITION.

F. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL TEMPORARY SHORING AND BRACING REQUIRED TO COMPLETE THE WORK.

G. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED, INCLUDING ASSOCIATED REPAIR AND FINISHING TO MATCH ADJACENT SURFACES.

H. REMOVE ALL ABANDONED EQUIPMENT, DUCTWORK, PLUMBING, ELECTRICAL, DATA, AND COMMUNICATIONS LINES, DEVICES, AND EQUIPMENT. EXPOSED UTILITIES SHALL BE IDENTIFIED, CAPPED, AND LABELED.

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J. CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND WITH WORK REQUIRED FOR EACH TRADE.

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L. EXISTING CONCRETE SLAB-ON-GRADE SHALL BE SAWCUT AND REMOVED AS REQUIRED TO COMPLETE UNDERGROUND PIPING WORK. REPLACE CONCRETE SLAB-ON-GRADE AND FINISH TO MATCH ADJACENT CONSTRUCTION. ALL CONCRETE REMOVAL AND REPLACEMENT BEYOND THAT SHOWN IS INCIDENTAL TO THE WORK AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID AS REQUIRED TO COMPLETE THE PROJECT.

M. BUILDING TO REMAIN PARTIALLY OCCUPIED DURING CONSTRUCTION. SEQUENCE ALL DEMOLITION ACTIVITIES ACCORDINGLY TO MINIMIZE DISRUPTION OF BUILDING OCCUPANTS. REFER TO PHASING PLANS.

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KEYNOTES

020301 REMOVE FLOOR FINISH AND CONCRETE SLAB AS REQUIRED FOR NEW WORK

020601 EXISTING FENCE TO REMAIN

020809 REMOVE EXISTING DOOR, FRAME, AND HARDWARE. SALVAGE FOR REUSE

020810 REMOVE EXISTING DOOR AND HARDWARE COMPLETE. FRAME TO REMAIN

020812 REMOVE WINDOW SYSTEM AND WALL BELOW COMPLETE. INCLUDING THE BLINDS, INTERIOR CASING, STOOL, APRON, AND INTERIOR TRIM

020905 REMOVE CARPET FLOORING AND BASE COMPLETE

020906 REMOVE EPOXY FLOORING AND BASE COMPLETE

020908 EXISTING GLASS BLOCK WALL TO REMAIN AND TO BE PROTECTED DURING CONSTRUCTION

020909 REMOVE RESILIENT BASE COMPLETE

020910 EXISTING FLOORING AND BASE TO REMAIN

021003 EXISTING FIRE POLE TO REMAIN

021004 EXISTING BABY BOX TO REMAIN ACCESSIBLE THROUGHOUT THE DURATION OF RENOVATIONS

230003 MECHANICAL EQUIPMENT, REFERENCE MECHANICAL

LEGEND:

EXISTING TO BE REMOVED

EXISTING TO REMAIN

DLZ
Connect. Build. Thrive.
DLZ Indiana, LLC

HENRY W. STELLMAN
REGISTERED
No. 00900115
STATE OF INDIANA
ARCHITECT
10/10/2025

NO.	REVISION	DATE

DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

FIRST FLOOR REMOVAL FLOOR PLAN

DRAWING NUMBER AD2.1

ARCHITECTURE

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Central_24.rvt
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1 **SECOND FLOOR PLAN - REMOVAL**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO G SERIES DRAWINGS FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. REFER TO DRAWINGS OF ALL OTHER DISCIPLINES FOR ADDITIONAL REMOVALS AND SELECTIVE DEMOLITION ACTIVITIES.

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H. REMOVE ALL ABANDONED EQUIPMENT, DUCTWORK, PLUMBING, ELECTRICAL, DATA, AND COMMUNICATIONS LINES, DEVICES, AND EQUIPMENT. EXPOSED UTILITIES SHALL BE IDENTIFIED, CAPPED, AND LABELED.

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KEYNOTES

020402 REMOVE PORTION OF EXISTING CMU WALL TO ACCOMMODATE NEW OPENING

020808 REMOVE EXISTING DOOR, FRAME, AND HARDWARE COMPLETE

020811 REMOVE WINDOW SYSTEM COMPLETE. INCLUDING THE BLINDS, INTERIOR CASING, STOOL, APRON, AND INTERIOR TRIM

020901 REMOVE EXISTING WALL, BASE, AND ALL ACCESSORIES COMPLETE

020905 REMOVE CARPET FLOORING AND BASE COMPLETE

020906 REMOVE EPOXY FLOORING AND BASE COMPLETE

020907 REMOVE TILE FLOORING AND BASE COMPLETE

021002 REMOVE TOILET PARTITION COMPLETE

021101 EXISTING FIRE POLE AND ACCESSORIES TO REMAIN

021201 REMOVE EXISTING METAL LOCKERS FOR RELOCATION

021202 REMOVE EXISTING LOCKER, RETURN TO OWNER

021204 REMOVE CASEWORK AND COUNTERTOP COMPLETE

022201 PLUMBING FIXTURE, REFERENCE PLUMBING

022801 REMOVE ACCESS CONTROL HARDWARE DEVICES COMPLETE

230003 MECHANICAL EQUIPMENT, REFERENCE MECHANICAL

LEGEND:

EXISTING TO BE REMOVED

EXISTING TO REMAIN

DLZ Connect. Build. Thrive.
DLZ Indiana, LLC

HENRY W. STELLMA REGISTERED No. 00900115 STATE OF INDIANA ARCHITECT
9/2021/0/0

NO.	REVISION	DATE

DRAWN: LDF CHK'D: HWS
DESIGNED: HWS
APPRV'D:
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

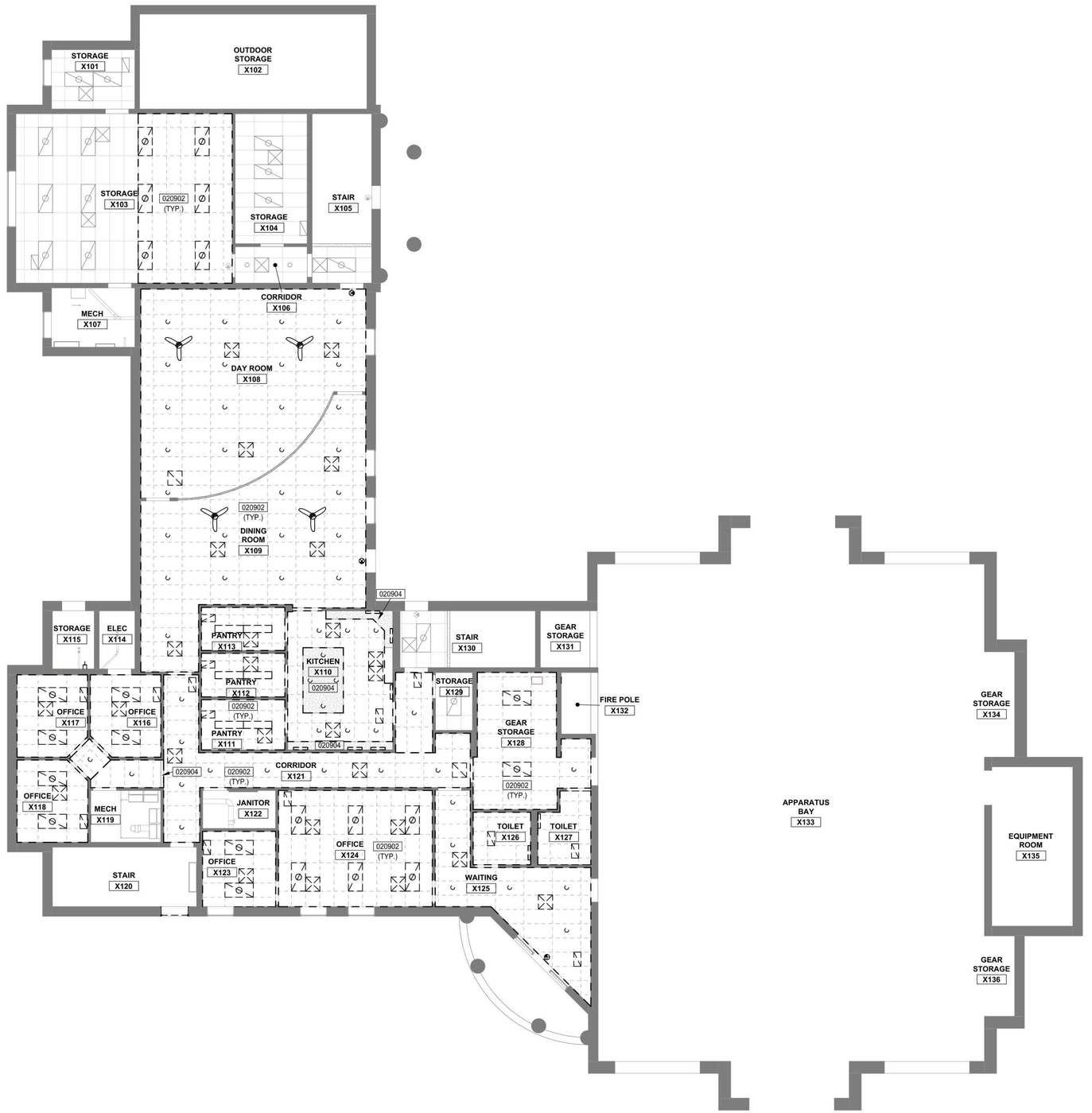
CARMEL INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

SECOND FLOOR REMOVAL FLOOR PLAN

DRAWING NUMBER AD2.2

ARCHITECTURE

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Depart_Arch.rvt
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1 **FIRST FLOOR REFLECTED CEILING PLAN REMOVAL**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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KEYNOTES

020902 REMOVE ACOUSTICAL PANEL CEILING SYSTEM

020904 EXISTING BULKHEAD TO REMAIN

REFLECTED CEILING PLAN LEGEND

- 24"x48" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- 24"x48" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM - REMOVED
- SUSPENDED GYPSUM BOARD CEILING (PAINTED)
- EXP. EXPOSED
- RETURN AIR GRILLE, SEE MECHANICAL
- SUPPLY AIR DIFFUSER, SEE MECHANICAL
- EXHAUST GRILLE, SEE MECHANICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- ACCESS PANEL
- CEILING FAN, SEE MECHANICAL

DLZ Indiana, LLC
Connect. Build. Thrive.

HENRY W. STELLMA REGISTERED No. 00900115 STATE OF CONNECTICUT ARCHITECT
9/20/2010

NO.	REVISION	DATE

CARMEL INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

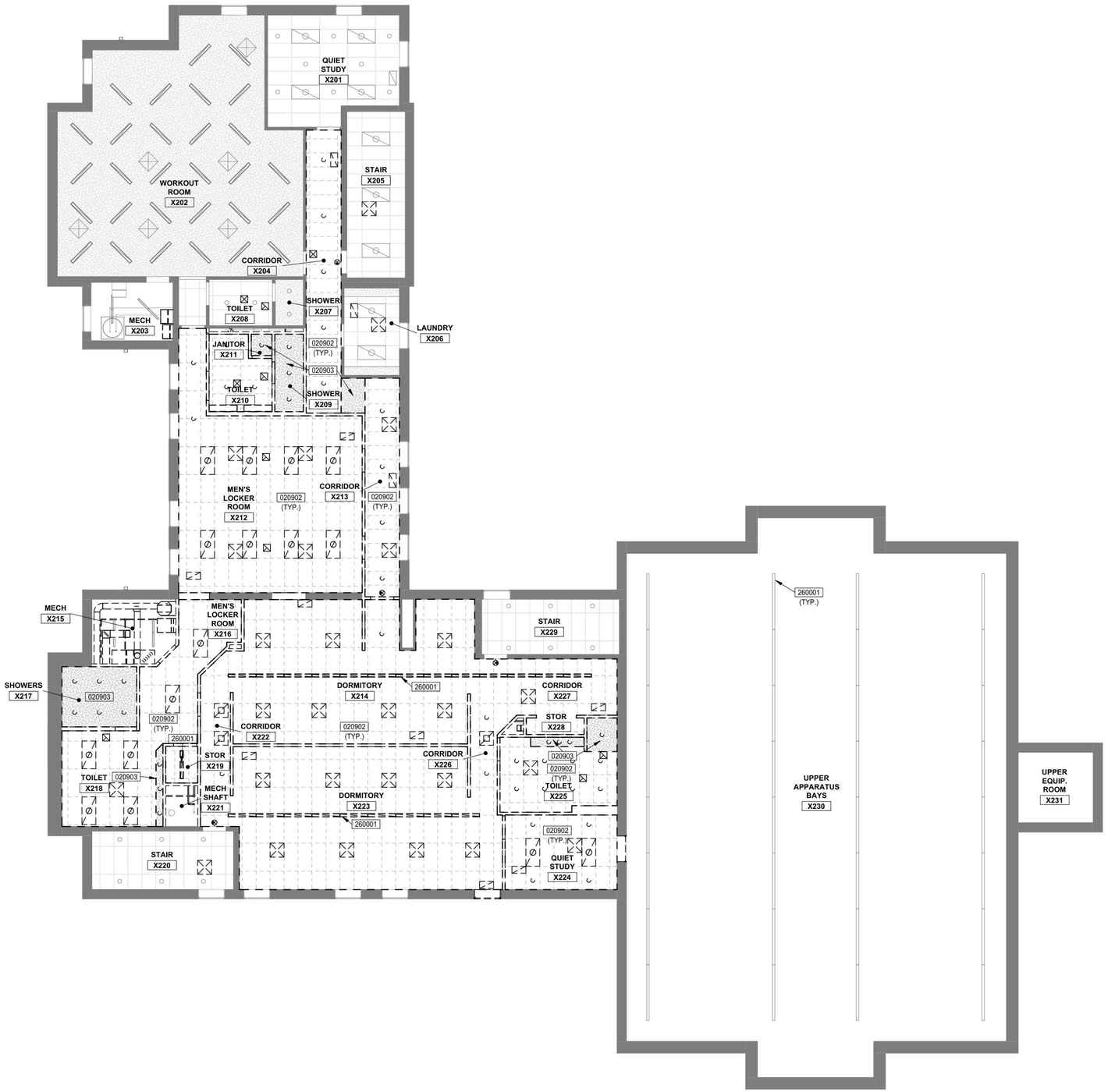
FIRST FLOOR REMOVAL REFLECTED CEILING PLAN

DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

DRAWING NUMBER AD10.1

ARCHITECTURE

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Arch_R24.rvt
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1 **SECOND FLOOR REFLECTED CEILING PLAN REMOVAL**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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KEYNOTES

020902 REMOVE ACOUSTICAL PANEL CEILING SYSTEM

020903 REMOVE SUSPENDED GYPSUM BOARD CEILING SYSTEM

260001 LIGHTING FIXTURE, REFERENCE ELECTRICAL

REFLECTED CEILING PLAN LEGEND

- 24"x48" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- 24"x48" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM - REMOVED
- SUSPENDED GYPSUM BOARD CEILING (PAINTED)
- EXP. EXPOSED
- RETURN AIR GRILLE, SEE MECHANICAL
- SUPPLY AIR DIFFUSER, SEE MECHANICAL
- EXHAUST GRILLE, SEE MECHANICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- ACCESS PANEL
- CEILING FAN, SEE MECHANICAL

DLZ Connect. Build. Thrive.
DLZ Indiana, LLC

HENRY W. STELLHAM REGISTERED No. 00900115 STATE OF INDIANA LICENSED ARCHITECT
9/20/21/0U/0

NO.	REVISION	DATE

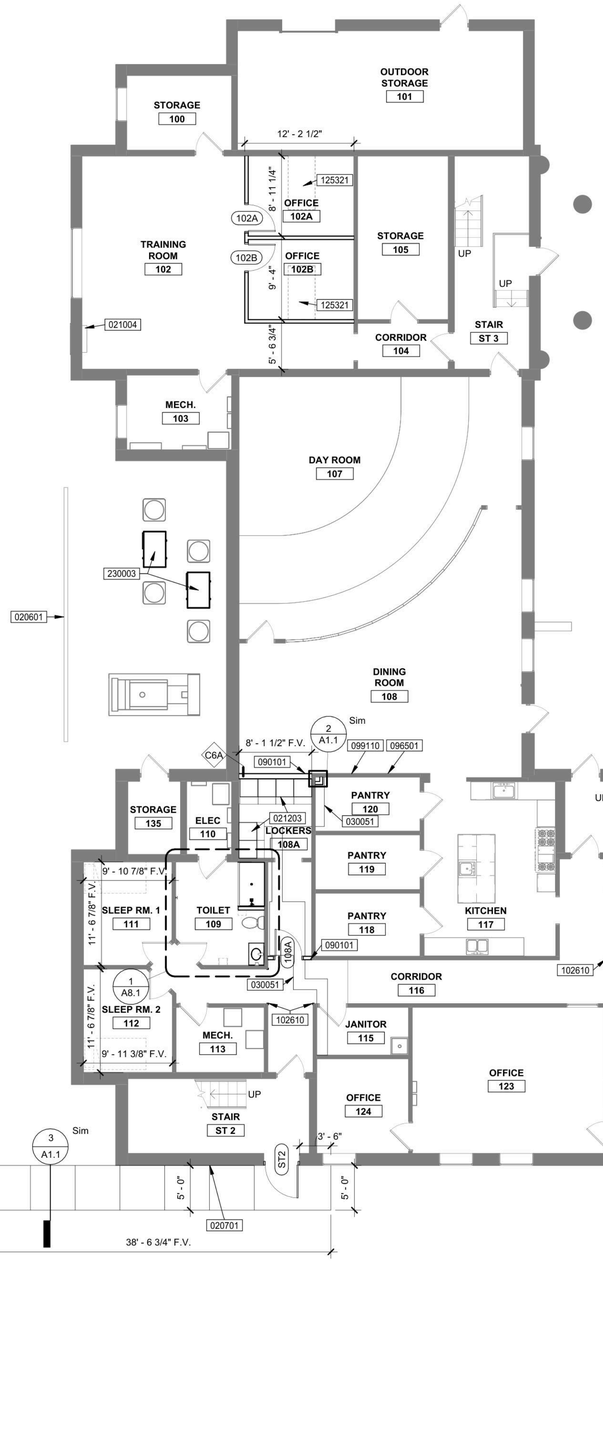
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CARMEL
INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

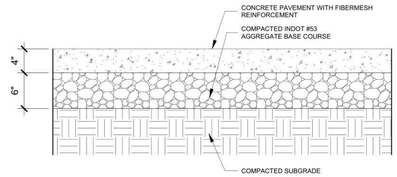
SECOND FLOOR REMOVAL REFLECTED CEILING PLAN

DRAWING NUMBER AD10.2 ARCHITECTURE

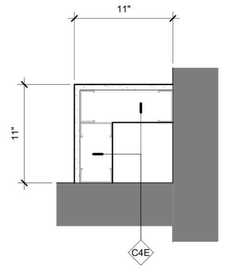
Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Architectural_Z_ARCH.rvt
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1 **FIRST FLOOR PLAN**
SCALE: 1/8" = 1'-0"



3 **CONCRETE PAVEMENT**
SCALE: N.T.S.



2 **CHASE DETAIL**
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
B. ALL WALLS SHALL BE TYPE C4A UNLESS NOTED OTHERWISE.

KEYNOTES

020601	EXISTING FENCE TO REMAIN
020701	EXISTING DOWNSPOUT TO REMAIN. CONCRETE TO BE INSTALLED AROUND THE DOWNSPOUT
021004	EXISTING BABY BOX TO REMAIN ACCESSIBLE THROUGHOUT THE DURATION OF RENOVATIONS
021203	RELOCATED EXISTING METAL LOCKERS
030051	PATCH CONCRETE SLAB, MATCH EXISTING CONSTRUCTION. REFERENCE DRAWING 3/A1.1 FOR ADDITIONAL INFORMATION
081106	SEAL DOOR UNDERCUT
090101	NEW FINISHES TO ALIGN WITH EXISTING
096501	4" VINYL WALL BASE, REFER TO ROOM FINISH SCHEDULE
099110	INTERIOR PAINTING
102610	CORNER GUARDS
125321	DESK BY OWNER
230003	MECHANICAL EQUIPMENT, REFERENCE MECHANICAL

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HENRY W. STELLMAN REGISTERED No. 00900115 STATE OF INDIANA ARCHITECT
9/2021/0/0

NO.	REVISION	DATE

DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

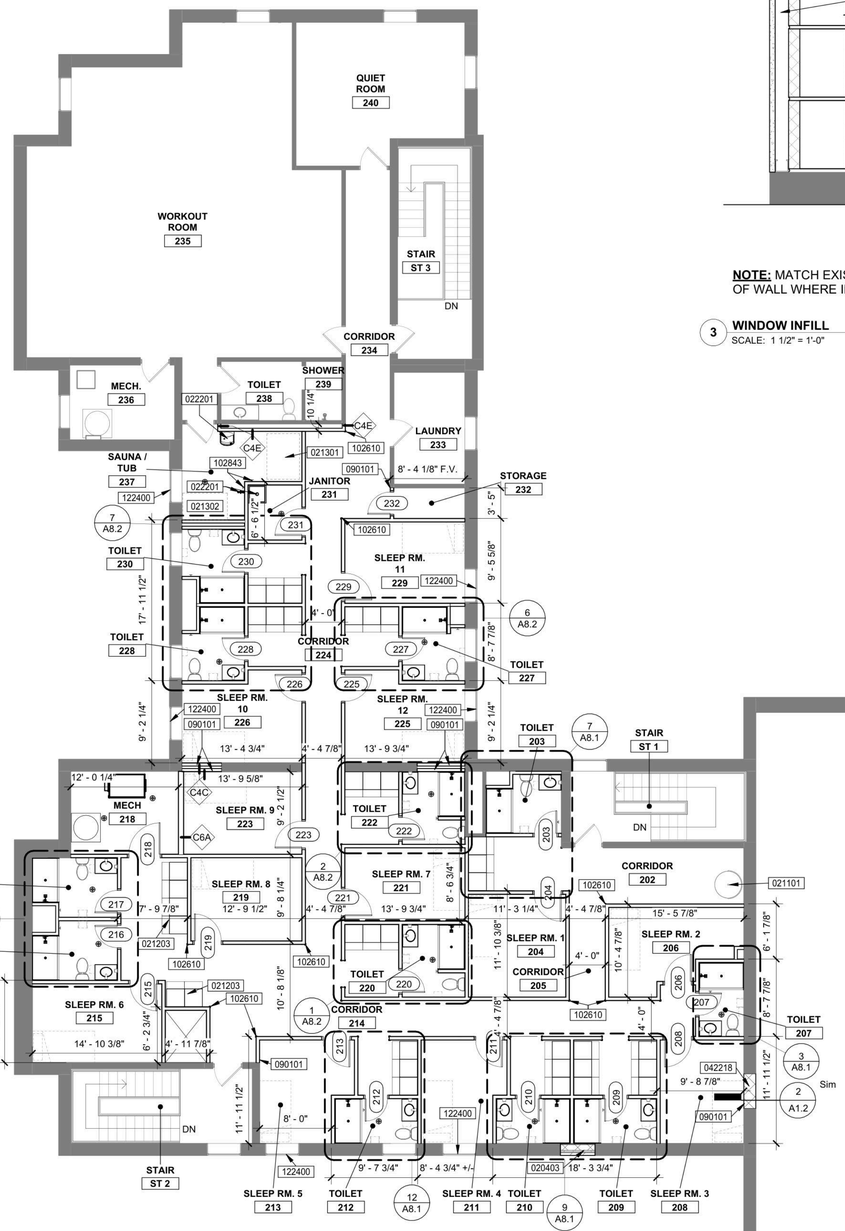
CARMEL
INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

OVERALL FIRST FLOOR PLAN

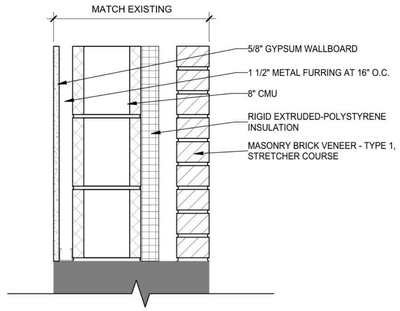
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ARCHITECTURE

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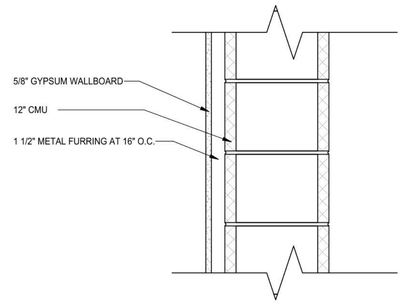


1 **SECOND FLOOR PLAN**
SCALE: 1/8" = 1'-0"



NOTE: MATCH EXISTING CONSTRUCTION OF WALL WHERE INFILL IS OCCURRING

3 **WINDOW INFILL**
SCALE: 1 1/2" = 1'-0"



2 **12" CMU WALL**
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.
B. ALL WALLS SHALL BE TYPE C4A UNLESS NOTED OTHERWISE.

KEYNOTES

020403	REFERENCE DETAIL 3/A1.2 FOR WINDOW INFILL CONSTRUCTION
021101	EXISTING FIRE POLE AND ACCESSORIES TO REMAIN
021203	RELOCATED EXISTING METAL LOCKERS
021301	RELOCATED EXISTING SAUNA
021302	RELOCATED EXISTING COLD TUB
022201	PLUMBING FIXTURE, REFERENCE PLUMBING
042203	8" CMU
042205	12" CMU
042218	MATCH EXISTING CMU WALL CONSTRUCTION WIDTH AND PROVIDE FURRING STRIP AND WALL COVERING
042601	MASONRY BRICK VENEER - TYPE 1, STRETCHER COURSE
072120	RIGID EXTRUDED-POLYSTYRENE INSULATION
090101	NEW FINISHES TO ALIGN WITH EXISTING
092221	1 1/2" METAL FURRING AT 16" O.C.
092911	5/8" GYPSUM WALLBOARD
102610	CORNER GUARDS
102843	ROBE HOOK
122400	ROLLER WINDOW SHADES

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HENRY W. STELLMAN
REGISTERED
No. 00900115
STATE OF INDIANA
ARCHITECT
9/20/2010

NO.	REVISION	DATE

DRAWN: LDF
DESIGNED: HWS
APPRVD: HWS
CHK'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

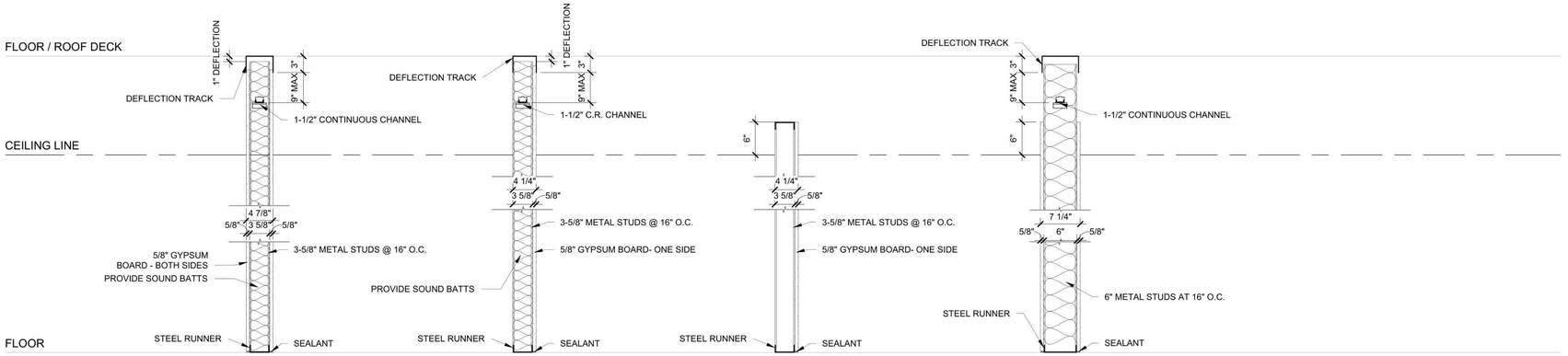
CARMEL
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION
INDIANA

OVERALL SECOND FLOOR PLAN

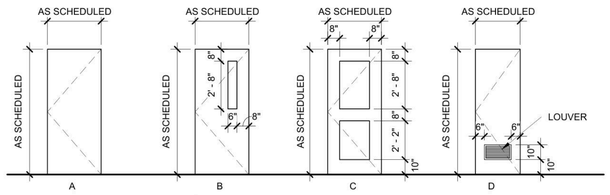
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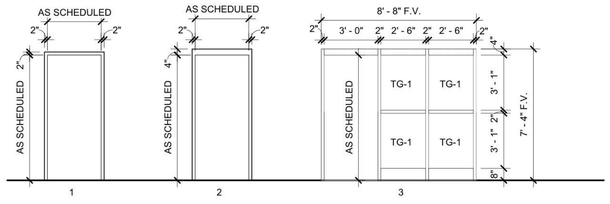
PARTITION SCHEDULE



PARTITION TYPE	C4A	C4C	C4E	C6A
	STC 50			



DOOR ELEVATIONS



FRAME ELEVATIONS

DOOR AND FRAME SCHEDULE

OPNG. NO.	DOOR WIDTH	DOOR HEIGHT	DOOR ELEV.	DOOR MAT'L	DOOR GLAZING TYPE	FRAME ELEV.	FRAME MAT'L	FRAME DEPTH	LABEL/ HOUR	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	OPNG. NO.	REMARKS
102A	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	102A	
102B	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	102B	
108A	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	108A	
132	3' - 0"	7' - 0"	C	HM	TG-1	3	HM			H2	J2	S2	132	
203	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	203	
204	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	204	
206	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	206	
207	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	207	
208	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	208	
209	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	209	
210	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	210	
211	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	211	
212	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	212	
213	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	213	
215	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	215	
216	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	216	
217	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	217	
218	3' - 6"	7' - 0"					HM	5"		H1	J1	- - -	218	
219	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	219	
220	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	220	
221	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	221	
222	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	222	
223	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	223	
225	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	225	
226	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	226	
227	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	227	
228	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	228	
229	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	229	
230	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	230	
231	3' - 0"	7' - 0"	A	WD	- - -	1	HM	5"		H1	J1	- - -	231	
232	2' - 6"	7' - 0"	D	WD	- - -	1	HM	5"		H1	J1	- - -	232	
ST2	3' - 8"	7' - 0"	B	HM	TG-1	2	HM	5"					ST2	2.

ABBREVIATIONS:
- AL ALUMINUM
- HM HOLLOW METAL
- WD WOOD

REMARKS:
1. FOR DOOR HARDWARE, REFER TO PROJECT MANUAL SECTION 08 71 00.
2. ALL EXTERIOR DOORS TO BE INSULATED.

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM AT ALL THRU-WALL PENETRATIONS/OPENINGS FOR RATED WALLS AND ASSEMBLIES.

C. NOT ALL PARTITIONS INDICATED MAY BE USED.

D. REFERENCE FLOOR PLANS FOR LOCATION OF PARTITION TYPE.

GLAZING SCHEDULE:

TG-1 1/4" CLEAR GLAZING, TEMPERED

DLZ Connect. Build. Thrive.
DLZ Indiana, LLC

HENRY W. STELLEMA REGISTERED No. 00900115 STATE OF INDIANA ARCHITECT
07/10/2026

DATE
REVISION NO.

DRAWN: LDF CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

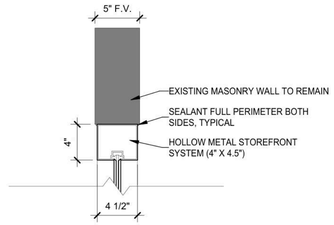
CARMEL
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION
INDIANA

DOOR AND PARTITION SCHEDULES

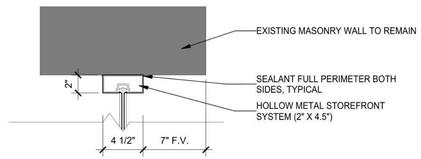
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ARCHITECTURE

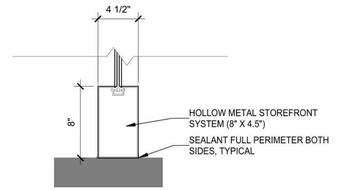
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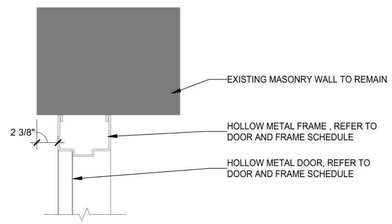
H2 HEAD DEATIL - STOREFRONT
SCALE: 1 1/2" = 1'-0"



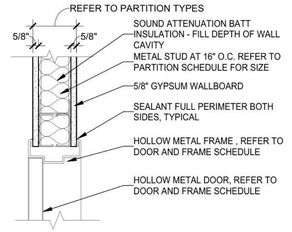
J2 JAMB DETAIL - STOREFRONT
SCALE: 1 1/2" = 1'-0"



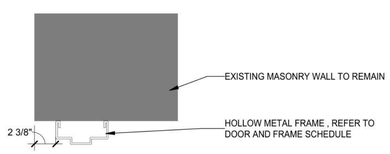
S2 SILL DETAIL - STOREFRONT
SCALE: 1 1/2" = 1'-0"



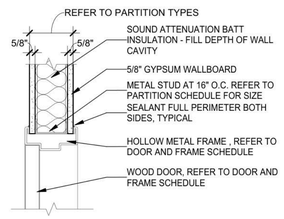
H3 HEAD DETAIL - EXTERIOR DOOR
SCALE: 1 1/2" = 1'-0"



H1 HEAD DETAIL - STUD WALL
SCALE: 1 1/2" = 1'-0"



J3 JAMB DETAIL - EXTERIOR DOOR
SCALE: 1 1/2" = 1'-0"



J1 JAMB DETAIL - STUD WALL
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. ALL HOLLOW METAL DOORS AND FRAMES ARE TO BE PAINTED.

C. EXTERIOR HOLLOW METAL DOORS AND FRAMES ARE TO BE GALVANIZED.

D. ALL EXTERIOR DOORS SHALL BE INSULATED.

E. COORDINATE DOORS WITH ACCESS CONTROL HARDWARE WITH ELECTRICAL REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL WIRING, CONNECTIONS, AND INITIAL PROGRAMMING AND TRAINING FOR ACCESS CONTROL SYSTEMS, INCLUDING SOFTWARE AND DEVICES REQUIRED FOR PROGRAMMING ACCESS CONTROL SYSTEM.

F. ALL WOOD DOORS TO BE FACTORY-FINISHED.

G. PROVIDE A ROOM IDENTIFICATION PANEL SIGN FOR EACH INTERIOR DOOR LOCATION, INCLUDING MALE/FEMALE/UNISEX AND ADA GRAPHICS WHERE APPLICABLE. FINAL ROOM NAMES, ROOM NUMBERS, AND LOCATIONS TO BE DETERMINED PRIOR TO FABRICATION. MOUNTING FOR PANEL SIGNS TO BE ON THE WALL ADJACENT TO THE DOOR APPROXIMATELY 48"-54" A.F.F.

H. PROVIDE ROLLER SHADES AT ALL EXTERIOR WINDOWS.

I. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

KEYNOTES

020401	EXISTING MASONRY WALL TO REMAIN
072143	SOUND ATTENUATION BATT INSULATION - FILL DEPTH OF WALL CAVITY
079204	SEALANT FULL PERIMETER BOTH SIDES, TYPICAL
081101	HOLLOW METAL DOOR, REFER TO DOOR AND FRAME SCHEDULE
081105	HOLLOW METAL FRAME , REFER TO DOOR AND FRAME SCHEDULE
081203	HOLLOW METAL STOREFRONT SYSTEM (8" X 4.5")
081204	HOLLOW METAL STOREFRONT SYSTEM (4" X 4.5")
081205	HOLLOW METAL STOREFRONT SYSTEM (2" X 4.5")
081401	WOOD DOOR, REFER TO DOOR AND FRAME SCHEDULE
092223	METAL STUD AT 16" O.C. REFER TO PARTITION SCHEDULE FOR SIZE
092911	5/8" GYPSUM WALLBOARD

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DLZ Indiana, LLC

HENRY W. STELLMA
REGISTERED
No. 00900115
STATE OF INDIANA
ARCHITECT
9/2021/0/10

NO.	REVISION	DATE

DRAWN: Author | CHK'D: Chk'd
DESIGNED: Designer
APPRV'D: Approver
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA

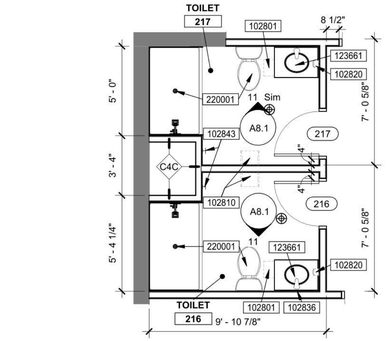
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

DOOR AND STOREFRONT DETAILS

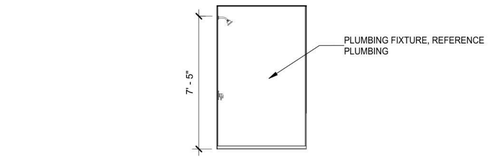
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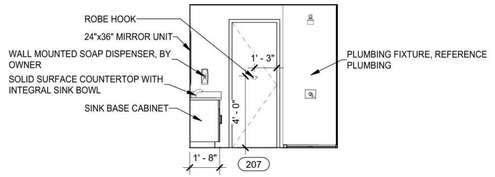
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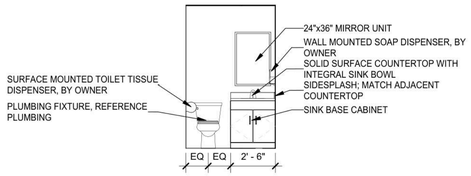
10 **TOILET 216 & 217**
SCALE: 1/4" = 1'-0"



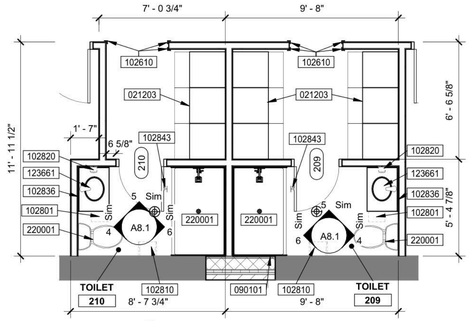
6 **TOILET 207 - VIEW C**
SCALE: 1/4" = 1'-0"



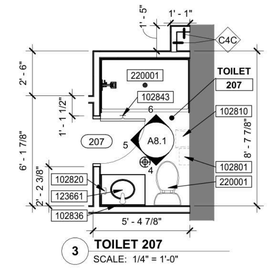
5 **TOILET 207 - VIEW B**
SCALE: 1/4" = 1'-0"



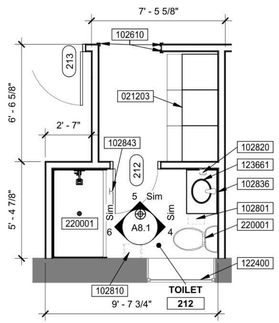
4 **TOILET 207 - VIEW A**
SCALE: 1/4" = 1'-0"



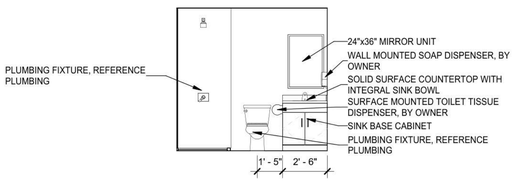
9 **TOILET 209 & 210**
SCALE: 1/4" = 1'-0"



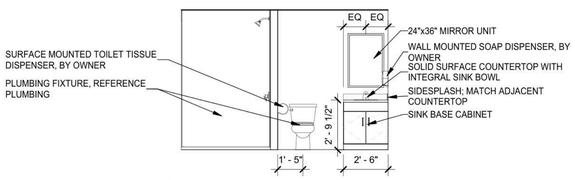
3 **TOILET 207**
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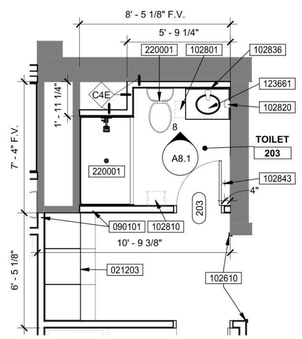
12 **TOILET 212**
SCALE: 1/4" = 1'-0"



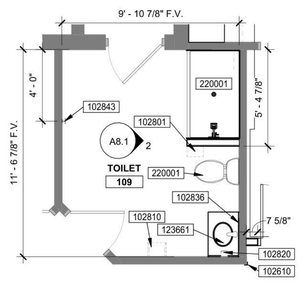
8 **TOILET 203 -VIEW A**
SCALE: 1/4" = 1'-0"



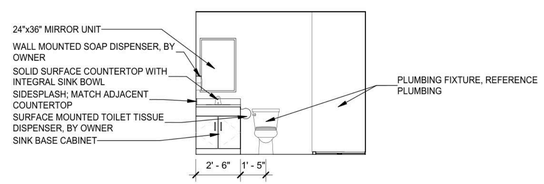
2 **TOILET 109**
SCALE: 1/4" = 1'-0"



7 **TOILET 203**
SCALE: 1/4" = 1'-0"



1 **TOILET 109**
SCALE: 1/4" = 1'-0"



11 **TOILET 216 - VIEW A**
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. REFER TO SHEET G1.3 FOR STANDARD ADA MOUNTING HEIGHTS OF ALL FIXTURES, ACCESSORIES, AND SIGNAGE.

C. ALL WALLS SHALL BE TYPE C4A UNLESS NOTED OTHERWISE.

KEYNOTES

021203	RELOCATED EXISTING METAL LOCKERS
090101	NEW FINISHES TO ALIGN WITH EXISTING
102610	CORNER GUARDS
102801	SURFACE MOUNTED TOILET TISSUE DISPENSER, BY OWNER
102810	SURFACE MOUNTED PAPER TOWEL DISPENSER, BY OWNER
102820	WALL MOUNTED SOAP DISPENSER, BY OWNER
102836	24"x36" MIRROR UNIT
102843	ROBE HOOK
122400	ROLLER WINDOW SHADES
123213	SINK BASE CABINET
123602	SIDESPLASH; MATCH ADJACENT COUNTERTOP
123661	SOLID SURFACE COUNTERTOP WITH INTEGRAL SINK BOWL
220001	PLUMBING FIXTURE, REFERENCE PLUMBING

DLZ
Connect. Build. Thrive.
DLZ Indiana, LLC

HENRY W. STELLMAN
REGISTERED
No. 00900115
STATE OF INDIANA
ARCHITECT
07/10/2026

NO.	REVISION	DATE

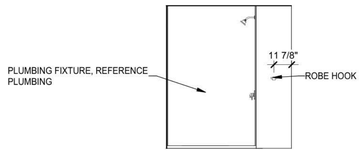
DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

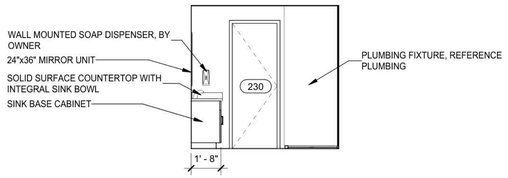
ENLARGED TOILET PLANS AND INTERIOR ELEVATIONS

DRAWING NUMBER A8.1
ARCHITECTURE

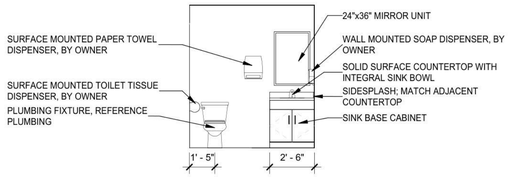
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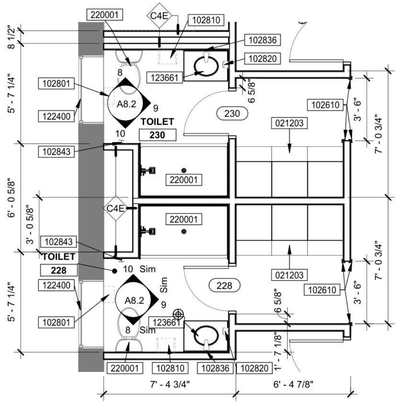
10 **TOILET 230 - VIEW C**
SCALE: 1/4" = 1'-0"



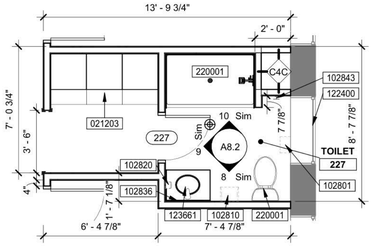
9 **TOILET 230 - VIEW B**
SCALE: 1/4" = 1'-0"



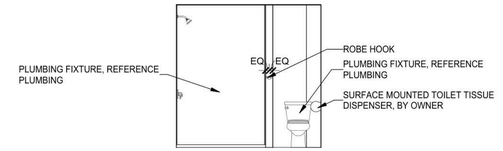
8 **TOILET 230 - VIEW A**
SCALE: 1/4" = 1'-0"



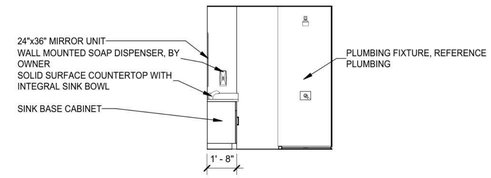
7 **TOILET 228 & 230**
SCALE: 1/4" = 1'-0"



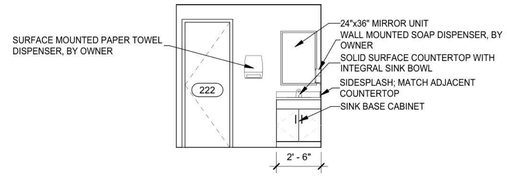
6 **TOILET 227**
SCALE: 1/4" = 1'-0"



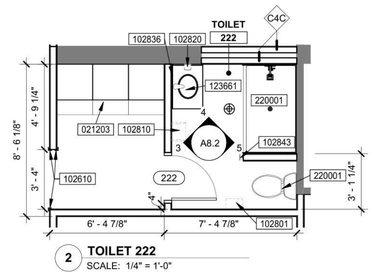
5 **TOILET 222 - VIEW C**
SCALE: 1/4" = 1'-0"



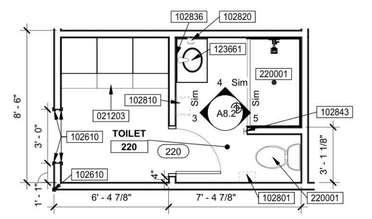
4 **TOILET 222 - VIEW B**
SCALE: 1/4" = 1'-0"



3 **TOILET 222 - VIEW A**
SCALE: 1/4" = 1'-0"



2 **TOILET 222**
SCALE: 1/4" = 1'-0"



1 **TOILET 220**
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. REFER TO SHEET G1.3 FOR STANDARD ADA MOUNTING HEIGHTS OF ALL FIXTURES, ACCESSORIES, AND SIGNAGE.

C. ALL WALLS SHALL BE TYPE C4A UNLESS NOTED OTHERWISE.

KEYNOTES

021203	RELOCATED EXISTING METAL LOCKERS
102610	CORNER GUARDS
102801	SURFACE MOUNTED TOILET TISSUE DISPENSER, BY OWNER
102810	SURFACE MOUNTED PAPER TOWEL DISPENSER, BY OWNER
102820	WALL MOUNTED SOAP DISPENSER, BY OWNER
102836	24"x36" MIRROR UNIT
102843	ROBE HOOK
122400	ROLLER WINDOW SHADES
123213	SINK BASE CABINET
123602	SIDESPLASH; MATCH ADJACENT COUNTERTOP
123661	SOLID SURFACE COUNTERTOP WITH INTEGRAL SINK BOWL
220001	PLUMBING FIXTURE, REFERENCE PLUMBING

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DLZ Indiana, LLC

HENRY W. STELLHORN
REGISTERED
No. 00900115
STATE OF INDIANA
ARCHITECT
9/20/2010

NO.	REVISION	DATE

CARMEL
INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

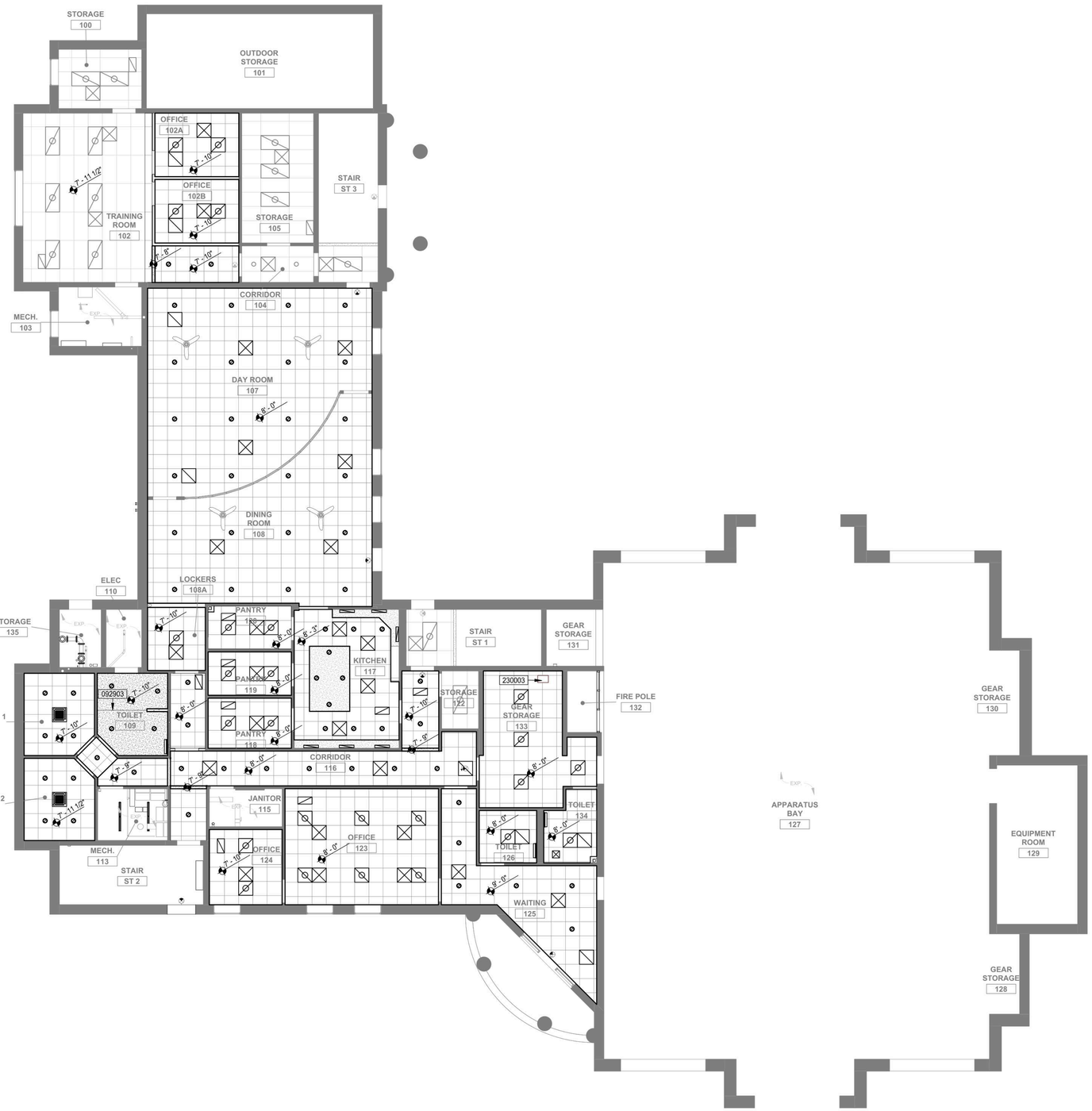
DRAWN: LDF
DESIGNED: HWS
CHK'D: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

DRAWING NUMBER A8.2

ENLARGED TOILET PLANS AND INTERIOR ELEVATIONS

ARCHITECTURE

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Central_R26.rvt
7/1/2026 4:23:16 PM



1 **FIRST FLOOR REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. GYPSUM BOARD CEILINGS LOCATED IN TOILET ROOMS AND LOCKER ROOMS SHALL BE MOLD- AND MOISTURE-RESISTANT TYPE.

C. FIRE-PROTECTION SPRINKLER HEADS SHALL BE LOCATED WITHIN 2" OF THE CENTER OF ACOUSTICAL CEILING PANELS. COORDINATE WITH F.P. SYSTEM.

KEYNOTES

092903 GYPSUM BOARD CONTROL JOINT

230003 MECHANICAL EQUIPMENT, REFERENCE MECHANICAL

REFLECTED CEILING PLAN LEGEND

- 24"x24" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM -
- 24"x48" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- SUSPENDED GYPSUM BOARD CEILING (PAINTED)
- EXP. EXPOSED
- RADIANT PANEL, SEE MECHANICAL
- VRF SYSTEM, SEE MECHANICAL
- RETURN AIR GRILLE, SEE MECHANICAL
- SUPPLY AIR DIFFUSER, SEE MECHANICAL
- EXHAUST GRILLE, SEE MECHANICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- ACCESS PANEL
- CEILING FAN, SEE MECHANICAL

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HENRY W. STELLMAN REGISTERED No. 00900115 STATE OF INDIANA ARCHITECT
9/22/2026

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DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026

PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER A10.1

ARCHITECTURE

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Architect_central.rvt
7/1/2026 3:22:24 PM



1 **SECOND FLOOR REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. GYPSUM BOARD CEILINGS LOCATED IN TOILET ROOMS AND LOCKER ROOMS SHALL BE MOLD- AND MOISTURE-RESISTANT TYPE.

C. FIRE-PROTECTION SPRINKLER HEADS SHALL BE LOCATED WITHIN 2" OF THE CENTER OF ACOUSTICAL CEILING PANELS. COORDINATE WITH F.P. SYSTEM.

KEYNOTES

REFLECTED CEILING PLAN LEGEND

- 24"x24" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM -
- 24"x48" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM
- SUSPENDED GYPSUM BOARD CEILING (PAINTED)
- EXP. EXPOSED
- RADIANT PANEL, SEE MECHANICAL
- VRF SYSTEM, SEE MECHANICAL
- RETURN AIR GRILLE, SEE MECHANICAL
- SUPPLY AIR DIFFUSER, SEE MECHANICAL
- EXHAUST GRILLE, SEE MECHANICAL
- Ø OR Ø LIGHT FIXTURE, SEE ELECTRICAL
- LIGHT FIXTURE, SEE ELECTRICAL
- ⊘ LIGHT FIXTURE, SEE ELECTRICAL
- ACCESS PANEL
- CEILING FAN, SEE MECHANICAL

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DLZ Indiana, LLC

HENRY W. STELLMAN
REGISTERED
No. 00900115
STATE OF INDIANA
ARCHITECT
9/20/2010

NO.	REVISION	DATE

DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL INDIANA
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION

SECOND FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER A10.2

ARCHITECTURE

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7/1/2026 12:12:32 PM



1 **FIRST FLOOR FINISH PLAN**
SCALE: 1/8" = 1'-0"

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOORS		WALLS								CEILING		REMARKS
				NORTH		EAST		SOUTH		WEST				
		MAT.	BASE	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	
100	STORAGE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
101	OUTDOOR STORAGE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
102	TRAINING ROOM	ETR	ETR/RB-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	ETR	-	
102A	OFFICE	ETR	RB-1	ETR	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
102B	OFFICE	ETR	RB-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
103	MECH.	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
104	CORRIDOR	ETR/EPY	ETR/RESB-1	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
105	STORAGE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
107	DAY ROOM	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
108	DINING ROOM	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
108A	LOCKERS	EPY	RB-1	GWB-1	PT-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	APC	-	
109	TOILET	PC-1	RB-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	GWB-2	PT-2	
110	ELEC	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
111	SLEEP RM. 1	CPT-1	RB-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	APC	-	
112	SLEEP RM. 2	CPT-1	RB-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	APC	-	
113	MECH.	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
115	JANITOR	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
116	CORRIDOR	ETR	ETR	ETR		ETR		ETR		ETR		APC	-	
117	KITCHEN	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
118	PANTRY	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
119	PANTRY	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
120	PANTRY	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
122	STORAGE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
123	OFFICE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
124	OFFICE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
125	WAITING	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
126	TOILET	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
127	APPARATUS BAY	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
128	GEAR STORAGE	ETR/EPY	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
129	EQUIPMENT ROOM	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
130	GEAR STORAGE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
131	GEAR STORAGE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
132	FIRE POLE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
133	GEAR STORAGE	EPY	RESB-1	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
134	TOILET	EPY	RESB-1	ETR	-	ETR	-	ETR	-	ETR	-	APC	-	
135	STORAGE	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. REFER TO DRAWING SHEET A3.1 FOR PARTITION SCHEDULE AND ROOM FINISH SCHEDULE.

C. WHERE DIFFERENT FLOOR MATERIALS MEET, THEY SHALL MEET UNDER THE CENTERLINE OF DOORS, UNLESS NOTED OTHERWISE.

D. ORIENTATION OF CARPET TILE TO BE DETERMINED IN FIELD BY ARCHITECT PRIOR TO INSTALLATION.

E. PROVIDE VINYL TRANSITION BETWEEN CARPET AND DISSIMILAR FLOOR FINISH.

FINISH ABBREVIATIONS:

CEILING:

APC ACOUSTIC PANEL CEILING
EXP EXPOSED

FLOORS:

CPT-1 CARPET TILE
EPY EPOXY
PC-1 POLISHED CONCRETE

WALLS:

CMU CONCRETE MASONRY UNIT
ETR EXISTING TO REMAIN
GWB-1 GYPSUM WALL BOARD
GWB-2 MOISTURE RESISTANT GYPSUM WALL BOARD
PT-1 PAINT, COLOR 1
PT-2 PAINT, COLOR 2

WALL BASE:

RB-1 RESILIENT 4" BASE
RESB-1 EPOXY RESINOUS FLOORING INTEGRAL BASE

FLOOR FINISH LEGEND:

CPT-1
EPY
PC-1

NOTE:
ELEMENTS ON THIS DRAWING ARE IDENTIFIED BY VARIOUS COLORS. IF THIS NOTE IS NOT RED, THIS DRAWING IS NOT IN COLOR AND NEEDS TO BE REPRINTED IN COLOR.

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DLZ Indiana, LLC

HENRY W. STELLHAM REGISTERED No. 00900115 STATE OF INDIANA ARCHITECT
07/01/2026

NO.	REVISION	DATE

DRAWN: LDF CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION
INDIANA

FIRST FLOOR FINISH PLAN

DRAWING NUMBER A13.1

ARCHITECTURE

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7/2/2026 11:21:49 AM



1 **SECOND FLOOR FINISH PLAN**
SCALE: 1/8" = 1'-0"

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOORS		WALLS								CEILING		REMARKS
				NORTH		EAST		SOUTH		WEST				
		MAT.	BASE	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	MAT.	FINISH	
202	CORRIDOR	CPT-1	RB-1	ETR	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
203	TOILET	PC-1	RB-1	ETR	PT-1	ETR	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-2	PT-2	
204	SLEEP RM. 1	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
205	CORRIDOR	CPT-1	RB-1	-	PT-1	GWB-1	PT-1	GWB-1	PT-1	-	PT-1	APC	-	
206	SLEEP RM. 2	CPT-1	RB-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
207	TOILET	PC-1	RB-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-2	PT-2	
208	SLEEP RM. 3	CPT-1	RB-1	GWB-1	PT-1	ETR	PT-1	ETR	PT-1	GWB-1	PT-1	APC	-	
209	TOILET	PC-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-2	PT-2	
210	TOILET	PC-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-2	PT-2	
211	SLEEP RM. 4	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	APC	-	
212	TOILET	PC-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-2	PT-2	
213	SLEEP RM. 5	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	ETR	PT-1	APC	-	
214	CORRIDOR	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
215	SLEEP RM. 6	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	ETR	PT-1	APC	-	
216	TOILET	PC-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-2	PT-2	
217	TOILET	PC-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-2	PT-2	
218	MECH	PC-1	RB-1	ETR	-	GWB-1	-	GWB-1	-	ETR	-	APC	-	
219	SLEEP RM. 8	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
220	TOILET	PC-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-2	PT-2	
221	SLEEP RM. 7	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
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223	SLEEP RM. 9	CPT-1	RB-1	ETR	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
224	CORRIDOR	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
225	SLEEP RM. 12	CPT-1	RB-1	GWB-1	PT-1	ETR	PT-1	ETR	PT-1	GWB-1	PT-1	APC	-	
226	SLEEP RM. 10	CPT-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	ETR	PT-1	APC	-	
227	TOILET	PC-1	RB-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-1	PT-1	GWB-2	PT-2	
228	TOILET	PC-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-2	PT-2	
229	SLEEP RM. 11	CPT-1	RB-1	GWB-1	PT-1	ETR	PT-1	GWB-1	PT-1	GWB-1	PT-1	APC	-	
230	TOILET	PC-1	RB-1	GWB-1	PT-1	GWB-1	PT-1	GWB-1	PT-1	ETR	PT-1	GWB-2	PT-2	
231	JANITOR	PC-1	RB-1	ETR	-	GWB-1	-	GWB-1	-	GWB-1	-	EXP	-	
232	STORAGE	PC-1	RB-1	ETR	-	ETR	-	GWB-1	-	GWB-1	-	EXP	-	
233	LAUNDRY	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
234	CORRIDOR	CPT-1	RB-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	APC	-	
235	WORKOUT ROOM	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
236	MECH.	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	EXP	-	
237	SAUNA / TUB	PC-1	RB-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	ETR	PT-1	ETR	-	
238	TOILET	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
239	SHOWER	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
240	QUIET ROOM	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
ST 1	STAIR	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
ST 2	STAIR	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	
ST 3	STAIR	ETR	ETR	ETR	-	ETR	-	ETR	-	ETR	-	ETR	-	

GENERAL NOTES:

A. REFER TO G1.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. REFER TO DRAWING SHEET A3.1 FOR PARTITION SCHEDULE AND ROOM FINISH SCHEDULE.

C. WHERE DIFFERENT FLOOR MATERIALS MEET, THEY SHALL MEET UNDER THE CENTERLINE OF DOORS, UNLESS NOTED OTHERWISE.

D. ORIENTATION OF CARPET TILE TO BE DETERMINED IN FIELD BY ARCHITECT PRIOR TO INSTALLATION.

E. PROVIDE VINYL TRANSITION BETWEEN CARPET AND DISSIMILAR FLOOR FINISH.

FINISH ABBREVIATIONS:

CEILING:

APC	ACOUSTIC PANEL CEILING
EXP	EXPOSED

FLOORS:

CPT-1	CARPET TILE
EPY	EPOXY
PC-1	POLISHED CONCRETE

WALLS:

CMU	CONCRETE MASONRY UNIT
ETR	EXISTING TO REMAIN
GWB-1	GYPSUM WALL BOARD
GWB-2	MOISTURE RESISTANT GYPSUM WALL BOARD
PT-1	PAINT, COLOR 1
PT-2	PAINT, COLOR 2

WALL BASE:

RB-1	RESILIENT 4" BASE
RESB-1	EPOXY RESINOUS FLOORING INTEGRAL BASE

FLOOR FINISH LEGEND:

CPT-1

EPY

PC-1

NOTE:
ELEMENTS ON THIS DRAWING ARE IDENTIFIED BY VARIOUS COLORS. IF THIS NOTE IS NOT RED, THIS DRAWING IS NOT IN COLOR AND NEEDS TO BE REPRINTED IN COLOR.

DLZ
Connect. Build. Thrive.
DLZ Indiana, LLC

HENRY W. STELLMAN
REGISTERED
No. 00900115
STATE OF INDIANA
ARCHITECT
07/10/2026

NO.	REVISION	DATE

DRAWN: LDF | CHK'D: HWS
DESIGNED: HWS
APPRV'D: HWS
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

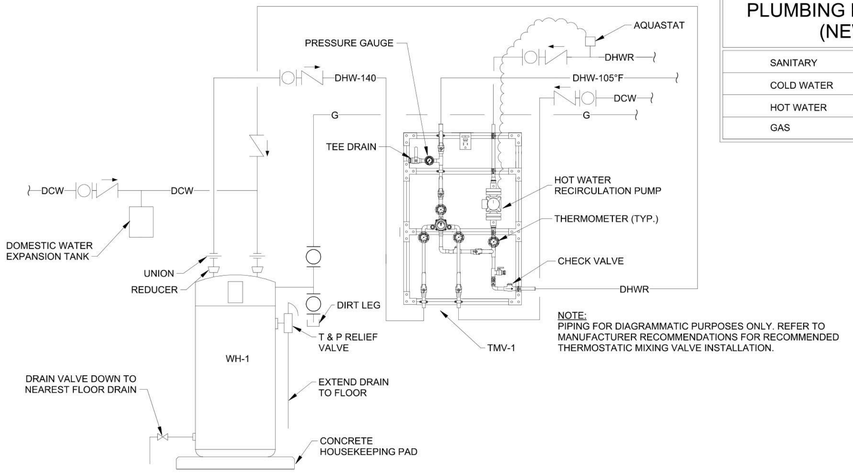
CARMEL
CARMEL FIRE DEPARTMENT
STATION 345 INTERIOR RENOVATION
INDIANA

SECOND FLOOR FINISH PLAN

DRAWING NUMBER A13.2

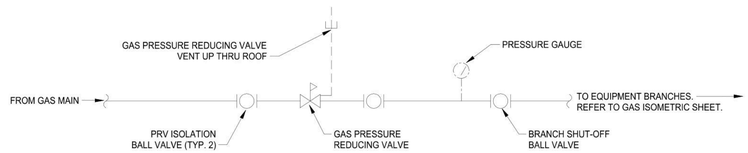
ARCHITECTURE

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NOTE:
PIPING FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO MANUFACTURER RECOMMENDATIONS FOR RECOMMENDED THERMOSTATIC MIXING VALVE INSTALLATION.

2 WATER HEATER DETAIL
SCALE: N.T.S.



1 GAS PRESSURE AND SHUTOFF VALVE DETAIL
SCALE: N.T.S.

PLUMBING BASIS OF DESIGN (NEW WORK)

SANITARY	83	DFU'S
COLD WATER	52	WSFU'S
HOT WATER	27	WSFU
GAS	199	CFH

PLUMBING EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	HORSE POWER	RPM	VOLTAGE/PH	FLOW (GPM)	HEAD (FEET)	NOTES
TMV-1	DIGITAL MIXING VALVE. UNIT HAS A MINIMUM FLOW CAPACITY OF 0.25 GPM WITH AUTOMATIC FLOW SHUTOFF BASED ON SUPPLY FAILURE. SELF CLEANING AND SELF BALANCING WITH OUTLET TEMPERATURE DEPICTION. UNIT SHALL BE ASSE 1017 COMPLIANT. INCLUDE THREE ADDITIONAL TEMPERATURE SENSORS FOR MONITORING OF INLET HOT, INLET COLD AND RETURN TEMPERATURE. INCLUDE ENHANCED PROTON CONTROLLER WITH PROGRAMMABLE DISINFECTION MODEL. PROVIDE RELAY CONTACTS FOR LOCAL ALARM. INCLUDE PUMP AS PART OF ASSEMBLY	LEONARD MODEL : M-PNV-125-LF-2.0-37-REL-AL	-	-	120/1	1.5	7	DISCHARGE SHALL BE SET TO 105 F. PUMP SHALL HAVE A STAINLESS STEEL BOOSTER.
WH-1	WATER HEATER IS STORAGE TYPE UNIT, ASME APPROVED WITH LOW NOX. UNIT SHALL HAVE FIRST HOUR DELIVERY OF 326 GPH AND A 3 HOUR AVERAGE OF 279 GPH. STORAGE SIZE OF THE UNIT SHALL BE 100 GALLONS.	STATE WATER HEATER: SUF100 – 199EA	-	-	120/1	-	-	UNIT DISCHARGE SHALL BE SET TO 140 F

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE NAME	INFORMATION ON PRODUCT	MFGR AND MODEL	SAN/WASTE	VENT SIZE	CW SIZE	HW SIZE	COMMENTS
EWC-1	ELECTRIC WATER COOLER (SINGLE LEVEL)	SINGLE LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER STATION. UNIT SHALL DELIVER 8 GPH OF 50-DEG F DRINKING WATER AT 90-DEG F AMBIENT AND 80 DEG-F INLET WATER. UNITS SHALL HAVE PUSHBUTTON ACTIVATION. BOTTLE FILLING UNIT SHALL INCLUDE AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH 20 SECOND AUTO SHUTOFF TIMER. BOTTLE FILLER SHALL PROVIDE 1 GPM FLOW RATE WITH LAMINAR FLOW TO MINIMIZE SPLASHING. LECTRICAL REQUIREMENTS: 115 V, 335 W, 4.4 F.L.A.	■ WATER COOLER: MURDOCK A171408S-UG ■ BOTTLE FILLER: BF-12-BCD	1-1/2"	1-1/4"	1/2"	-	ADA COMPLIANT
FCO-1	FLOOR CLEANOUT	ADJUSTABLE LEVELING FLOOR CLEANOUT. DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED LIGHT-DUTY TOP WITH ADDITIONAL LEVELING ADJUSTMENT TO FINISHED FLOOR. PROVIDE SECURITY FASTENERS IN SECURE AREAS.	■ ZURN MODEL: Z1400-BZ-ZS-VP	-	-	-	-	MATCH PIPE SIZE.
FD-1	FLOOR DRAIN	LACQUERED CAST IRON FLOOR DRAIN WITH 5" ROUND POLISHED NICKEL BRONZE TOP, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET. PROVIDE ASSE 1072 TRAP PROTECTION DEVICE.	ZURN MODEL: Z415B-2,3,4-ZN-Y	-	-	-	-	MATCH PIPE SIZE. ■ PROVIDE WITH TRAP PROTECTION DEVICE SIMILAR TO SURESEAL.
HB-1	HOSEBIBB	EXPOSED, LEAD FREE, ANTI-SIPHON WALL HYDRANT WITH EXTERNAL VACUUM BREAKER, BRONZE AND STAINLESS STEEL INTERIOR COMPONENTS, VANDAL RESISTANT OPERATING STEM, AND SECURED WHEEL-TYPE HANDLE. PROVIDE 3/4"" MALE HOSE CONNECTION.	■ ZURN MODEL: Z1341-XL-PC	-	-	3/4"	-	-
L-1	LAVATORY	■ BOWL – REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. ■ FAUCET – ONE PIECE SELF CONTAINED CERAMIC DISC VALVE. STATIONARY SPOUT WITH METAL THROAT PLATE AND FLEXIBLE CONNECTIONS WITH RED BLUE INDEXING. VANDAL RESISITANT 0.5 GPM AERATOR. POLISHED CHORME PLATED FINISH.	■ FAUCET: KOHLER K-15199-4NDRA-CP ■ SUPPLIES AND STOPS - WOLVERINE BRASS INC. MODEL ENCORE; T&S BRASS.	1-1/4"	1-1/4"	1/2"	1/2"	-
MS-1	MOP SINK	■ BASIN - ONE PIECE MOLDED STONE 24"X24"X10" WITH INTEGRAL STAINLESS STEEL BODY DRAIN, STAINLESS STEEL CAPS ON ALL CURBS, AND WALL GUARDS. ■ FAUCET-CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, INCLUDE, HOSE AND HOSE BRACKET, STAINLESS STEEL WALL GUARDS, STAINLESS STEEL BUMPER GUARDS AND MOP HANGER.	■ BASIN - FIAT MODEL MSB-2424. ■ FAUCET - FIAT MODEL 830AA ■ HOSE BRACKET - FIAT MODEL 832AA ■ MOP HANGER BRACKET - FIAT MODEL 889CC ■ STAINLESS STEEL BUMPER GUARDS - FIAT MODEL E88AA24 ■ WALL GUARDS - FIAT MODEL MSG2424	3"	1-1/2"	1/2"	1/2"	-
SH-1	SHOWER	■ SHOWER BASIN – 60"X36" ALCOVE SHOWER BASIN WITH CENTER DRAIN. SLIP RESISTANT SURFACE. INCLUDE SHOWER DRAIN WITH THE UNIT. ■ SHOWER HEAD: ASSEMBLY SHALL INCLUDE FACEPLATE WITH HANDLE, SHOWER ARM WITH FLANGE AN SHOWER HEAD. SINGLE HANDLE SHALL COVER ON AND OFF OPERATION AND TEMPERATURE SETTING. 2.5 GPM FLOW RATE WITH CHROME PLATED FINISH. ■ SHOWER WALL PANEL SYSTEM: 2X 36"X96", 1X 60"X96" SMOOTH WALL PANELS, INCLUDE CORNER JOINTS.	■ SHOWER BASIN: KOHLER – SALIENT – K-9055-0 ■ SHOWER LOCKER: KOHLER – K-97630 ■ CEILING SHOWER HEAD: KOHLER K-TS949-4 ■ SHOWER VALVE: KOHLER K-8304-KS ■ SHOWER DRAIN: KOHLER K-9132 SHOWER WALL PANELS: INPRO PRISM SOLID SURFACE	2"	1-1/4"	3/4"	3/4"	INSTALL SHOWER HEAD AT 7'-5" A.F.F.
WC-1	WATER CLOSET	■ UNIT SHALL BE A 2 PIECE DESIGN WITH ELONGATED BOWL. ADA COMPLIANT. INCLUDE BOLT CAPS, TRIP LEWER, WAX RING, CONNECTOR HOSE, ELONGATED TOILET SEAT. WHITE COLOR.	■ KOHLER: HIGHLINE: K-3999	4"	2"	3/4"	-	UNIT SHALL BE ADA COMPLIANT. UNIT SHALL HAVE GRAVITY FLUSHING FOR QUIETER OPERATION. UNIT SHALL BE PROVIDED WITH FOLLOWING ACCESSORIES : DEODORIZING ELONGATED TOILET SEATS, LOW PROFILE BOLT CAPS, TRUP LEVER CONNECTOR HOSE AND DRAIN TREATMENT

FIRE PROTECTION PERFORMANCE SPECIFICATIONS.

1. THE BUILDING SHALL BE PROTECTED WITH A WET PIPE SPRINKLER SYSTEM WITH THE EXCEPTION OF APPARATUS BAY AND ASSOCIATED SPACES.
2. PROVIDE THE OWNER WITH SPARE HEAD BOXES AT EACH RISER FILLED WITH SPARE HEADS AND SPARE HEAD WRENCHES.
3. FOR EACH RISER ASSEMBLY INCLUDE CONTROL VALVES WITH BUILT IN TRANSFER SWITCH, ELECTRIC FLOW SWITCH, WATER PRESSURE GAUGE AND TEST AND DRAIN ASSEMBLY.
4. PROVIDE FIRE DEPARTMENT CONNECTION. COORDINATE WITH OWNER FOR EXACT LOCATION.
5. ALL PIPING AND FITTINGS SHALL BE CPVC.
6. SPRINKLER HEADS IN FINISHED CEILINGS SHALL BE CONCEALED TYPE WITH FLAT PLATE COVER HEAD.
7. PROVIDE AUDIBLE OUTSIDE ALARM BELLS AND BACK BOXES AT EACH RISER (INSTALLED BY ELECTRICAL CONTRACTOR).
8. HYDRAULIC CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH THE **NFPA-13R 2010** STANDARD.
9. COORDINATE WITH OWNER ON REQUIREMENT FOR A WALL MOUNTED PIV ASSEMBLY PRIOR TO BIDDING.
10. ANY LOW VOLTAGE WORK PERTAINING TO FIRE PROTECTION SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER AND CARRYING OUT A FLOW TEST TO DETERMINE FEASIBILITY OF THE FIRE SUPPRESSION SYSTEM AND FOR HYDRAULIC CALCULATIONS. INCLUDE AN ALLOWANCE FOR THE SAME IN BID PRICE.
12. COORDINATE ANY SHUTDOWNS OF UTILITIES AT LEAST 5 DAYS IN ADVANCE WITH THE OWNER.
13. ANY COSTS FOR SHUTOFF VALVES AND LABOR WHICH ARE NEEDED TO ISOLATE UTILITIES OR TO TIE TO EXISTING UTILITIES AS PART OF THE FIRE PROTECTION SYSTEM SHALL BE BORNE BY THE CONTRACTOR.
14. ALL PIPING SHALL BE CONCEALED IN AREAS WITH FINISHED CEILINGS.
15. ALL FLOW TEST DRAINS SHALL BE PIPED TO A SUITABLE DRAIN THAT DISCHARGES TO THE EXTERIOR OF THE BUILDING.
16. AUXILIARY DRAINS SHALL BE PROVIDED, WHERE REQUIRED, FOR SYSTEM DRAINAGE.
17. THE FIRE PROTECTION DEVICES SHALL BE CONNECTED TO EXISTING BUILDING FIRE ALARM SYSTEM. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING BUILDING FIRE ALARM SYSTEM AND PROVIDE COMPATIBLE DEVICES.
18. COORDINATE FIRE SPRINKLER WORK WITH ARCHITECTURAL (REFLECTED CEILING PLAN), ELECTRICAL (LIGHTING), HVAC (DUCTWORK AND PIPING), AND PLUMBING, BEFORE COMMENCING WORK.
19. ALL SYSTEM CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED.
20. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, LABOR COSTS, PERMIT FEES AND EQUIPMENT REQUIRED FOR, OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATIONAL SPRINKLER SYSTEM, AS INDICATED IN THE CONTRACT DOCUMENTS.
21. CONTRACTOR SHALL PREPARE AND SUBMIT SPRINKLER PLANS AND PRODUCT DATA SHEETS THAT CONTAIN SUFFICIENT DETAIL FOR THE AUTHORITIES HAVING JURISDICTION TO EVALUATE THE HAZARD AND EFFECTIVENESS OF THE SPRINKLER SYSTEM.
22. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL BE IN ACCORDANCE WITH **NFPA 13R-2010 RESIDENTIAL** STANDARDS.
23. HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SUBMITTALS SHALL BE SIGNED AND STAMPED BY A QUALIFIED FIRE PROTECTION PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SUBMITTED TO ENGINEER AND THE OWNER FOR RECORDS.
24. ANY CONFLICTS WHICH OCCUR DUE TO LACK OF COORDINATION OF THE SPRINKLER CONTRACTOR WITH OTHER DIVISIONS SHALL BE CORRECTED BY THE SPRINKLER CONTRACTOR WITH NO FURTHER EXPENSE TO OWNER.
25. SPRINKLER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE **NFPA-13R** AND BY THE AUTHORITY HAVING JURISDICTION BEFORE COMMISSIONING THE SPRINKLER SYSTEMS.
26. SHUT-OFF TYPE VALVES LOCATED ABOVE THE CEILINGS SHALL BE WITHIN 36" OF THE CEILING LEVEL.
27. CONTRACTOR SHALL PROVIDE ACCESS DOORS, WHETHER SPECIFICALLY IDENTIFIED ON THE DRAWINGS OR NOT, IN ALL WALL AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO FIRE PROTECTION ITEMS MAY BE REQUIRED. ACCESS DOORS SHALL BE OF AN APPROPRIATE SIZE REQUIRED FOR EACH APPLICATION. WHERE APPLICABLE, ACCESS DOORS SHALL MATCH THE FIRE RATING OF THE WALL / CEILING ASSEMBLY.
28. ALL FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED TO DRAIN BACK TO ALARM VALVES OR DRAIN STATIONS.
29. ALL FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED TO NOT BE ROUTED OVER ELECTRICAL EQUIPMENT.
30. ALL SPRINKLER HEADS IN FINISHED CEILINGS SHALL BE CONCEALED TYPE WITH FLAT PLATE COVER HEAD (STANDARD COLOR SELECTED BY ARCHITECT).

GENERAL NOTES

1. INSTALLATION OF PLUMBING FIXTURES AND ACCESSORIES, INCLUDING FLUSH CONTROL VALVES INTENDED FOR PEOPLE WITH DISABILITIES, SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
2. INSTALLATION OF PLUMBING PIPING SHALL BE FULLY COORDINATED WITH STRUCTURAL, ARCHITECTURAL, ELECTRICAL, AND HVAC DRAWINGS TO AVOID CONFLICT.
3. NO PLUMBING (WATER, DRAINS, VENT, OR GAS PIPING) SHALL BE INSTALLED DIRECTLY ABOVE ANY ELECTRICAL PANELS. COORDINATE WITH OTHER DIVISIONS BEFORE PROCEEDING WITH INSTALLATION.
4. IF NON DESIGN BASE EQUIPMENT IS SELECTED, CONTRACTOR SHALL BEAR ADDITIONAL COSTS FOR MODIFICATIONS TO THE ORIGINAL SYSTEM(S) INCLUDING COSTS FOR ARCHITECT/ENGINEER REVIEW.
5. PROVIDE WATER HAMMER ARRESTERS AT PLUMBING FIXTURES AND GROUPS OF PLUMBING FIXTURES THAT ARE SUBJECT TO WATER HAMMER. SELECT ARRESTERS IN ACCORDANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE STANDARD.
6. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, LABOR AND EQUIPMENT PERMIT FEES, REQUIRED FOR, OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATIONAL PLUMBING SYSTEM AS INDICATED IN THE CONTRACT DOCUMENTS INCLUDING SPECIFICATIONS.
7. ALL PLUMBING SERVICES GOING INTO THE BUILDING AND LEAVING THE BUILDING SHALL BE CONNECTED TO THE SITE UTILITIES, COORDINATE WITH SITE UTILITIES DWGS. COORDINATE ALL EXTERIOR UNDERGROUND PLUMBING WORK WITH THE SITE UTILITIES BEFORE COMMENCING WORK. COORDINATE ALL UNDERGROUND PIPING WITH FOUNDATION DRAWINGS.
8. ALL PLUMBING WORK SHALL BE IN CONFORMANCE WITH THE INTERNATIONAL PLUMBING CODE, LATEST EDITION ADOPTED BY THE STATE OF INDIANA WITH INDIANA AMENDMENTS, MUNICIPAL OR CITY CODES, AND THE AUTHORITY HAVING JURISDICTION (WHICHEVER IS MORE STRINGENT).
9. INSTALL BALL VALVE CLOSE TO WATER MAIN ON EACH BRANCH AND RISER SERVING PLUMBING EQUIPMENT AND FIXTURES.
10. CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL WALLS AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR FIRE PROTECTION ITEMS MAY BE REQUIRED WHETHER INDICATED ON THE DRAWINGS OR NOT. ACCESS DOORS SHALL BE OF AN APPROPRIATE SIZE REQUIRED FOR EACH APPLICATION. WHERE APPLICABLE, ACCESS DOORS SHALL MATCH THE FIRE RATING OF THE WALL / CEILING ASSEMBLY.
11. SHUT-OFF VALVES LOCATED ABOVE THE CEILING THROUGHOUT THE BUILDING SHALL BE WITHIN 24" OF THE CEILING.
12. REFERENCE SECTIONS AND RISER/ISOMETRIC DIAGRAMS FOR ADDITIONAL INFORMATION ON PIPE SIZES NOT SHOWN ON PLANS.
13. PROVIDE SIZES TO FIXTURES AS INDICATED ON PLANS, RISERS, AND SECTIONS. IF SIZE IS NOT INDICATED, PROVIDE SIZE SHOWN ON PLUMBING FIXTURE SCHEDULE.
14. PROVIDE HOUSING PADS FOR EQUIPMENT. PAD SIZES SHOWN ARE APPROXIMATE AND BASED ON BASIS OF DESIGN EQUIPMENT. PROPER EQUIPMENT OPERATION AND MAINTENANCE REQUIRES EQUIPMENT PADS SIZED TO SPECIFIC EQUIPMENT FURNISHED. SUBMIT COORDINATION DRAWINGS ILLUSTRATING PROPOSED PAD DIMENSIONS BASED ON APPROVED EQUIPMENT. DO NOT PERFORM LAYOUT WORK OR BEGIN FORM WORK PRIOR TO APPROVAL OF COORDINATION DRAWINGS.
15. PROVIDE CEILING MARKERS AT LOCATIONS OF VALVES ABOVE THE CEILING.
16. VENTS THROUGH THE ROOF SHALL EXTEND AT LEAST 12" ABOVE ROOF SURFACE.
17. ALL PVC VENTS SHALL BE INSULATED WITH 1" THICK MINERAL FIBER INSULATION.

GENERAL DEMOLITON NOTES

1. REFER TO DRAWINGS OF ALL OTHER DISCIPLINES FOR ADDITIONAL REMOVALS AND SELECTIVE DEMOLITION ACTIVITIES.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SELECTIVE DEMOLITION ACTIVITIES. ANY ITEMS NOT INDICATED ON THE DRAWINGS OR SPECIFICATIONS THAT ARE IN CONFLICT WITH CONTRACT WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID FOR CLARIFICATION.
3. FOR THE DURATION OF THE PROJECT, IF ANY EXISTING ITEM IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPAIRED AND RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED, INCLUDING REPAIR AND FINISHING TO MATCH ADJACENT SURFACES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED, INCLUDING ASSOCIATED REPAIR AND FINISHING TO MATCH ADJACENT SURFACES.
6. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY ENVIRONMENTAL CONTROL MEASURES INCLUDING ACCEPTABLE AIR QUALITY CONTROL MEASURES, DUST CONTROL, EROSION CONTROL AND OTHER MEASURES REQUIRED FOR PROTECTION OF THE PROPERTY DURING SELECTIVE DEMOLITION AND CONSTRUCTION ACTIVITIES.
7. CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING CONTRACT DRAWINGS WITH FIELD CONDITIONS AND WORK ASSOCIATED WITH EACH TRADE.
8. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH NEW WORK TO VERIFY DIMENSIONS AND EXTENT OF REMOVALS PRIOR TO BEGINNING OF WORK.
9. CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE AND REINSTALLATION OF REMAINING WALL MOUNTED DEVICES INTENDED FOR REUSE.
10. ALL DEMOLITION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE STATE OF INDIANA, LOCAL BUILDING CODES, OSHA AND NFPA (WHICHEVER IS MORE STRINGENT).
11. OWNER RESERVES THE RIGHT TO SALVAGE ANY EQUIPMENT OR MATERIAL INDICATED TO BE DEMOLISHED.
12. PLANS ARE FOR DIAGRAMMATIC PURPOSES ONLY, BASED ON LIMITED SITE OBSERVATIONS. CONTRACTOR TO REMOVE ANY UNUSED / ABANDONED DUCTWORK, EQUIPMENT, PIPING (GAS, REFRIGERANT ETC.), ASSOCIATED ACCESSORIES WHETHER INDICATED ON THE PLANS OR NOT. CONTRACTOR TO VERIFY EXTENT OF DEMOLITION ON THE FIELD AND COORDINATE WITH THE ENGINEER (AT NO ADDITIONAL COST TO THE OWNER). PATCH WALLS AND/OR FLOOR TO MATCH ADJACENT CONDITIONS.

PLUMBING SYMBOLS

DCW	DOMESTIC COLD WATER
G	NATURAL GAS
DHW	DOMESTIC HOT WATER
DHW-140	DOMESTIC HOT WATER (140)
DHWR	HOT WATER RETURN
SAN	SANITARY ABOVE GROUND
SAN	SANITARY BELOW GROUND
V	ABOVE GROUND VENT
V	BELOW GROUND VENT
	BALL VALVE
	CALIBRATED BALANCING VALVE
	CHECK VALVE
	SINGLE LINE - PIPE DROP
	SINGLE LINE - PIPE RISE
	SINGLE LINE - PIPE RISE TEE
	SINGLE LINE - PIPE DROP TEE
	TWO LINE - PIPE DROP
	TWO LINE - PIPE RISE
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BT	BRINE TANK
BV	BALANCING VALVE
CONT	CONTINUATION
CW	CW
DN	DOWN
DWG.	DRAWING
ELEV.	ELEVATION
FBG	FROM BELOW GRADE
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FUT	FUTURE
G	NATURAL GAS
GPM	GALLONS PER MINUTE
HW	HOT WATER
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
LKW	LAVATORY KITCHEN
W	WASTE
MAX	MAXIMUM
MIN	MINIMUM
OS&Y	OUTSIDE SCREW & YOKE
PHE	PLATE HEAT EXCHANGER
ST	STORM
SQFT	SQUARE FEET
TBG	TO BELOW GRADE
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TS	TEMPERATURE SENSOR
TYP	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE

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SIDDHARTH S. BHAT
REGISTERED
No. 12200004
STATE OF
INDIANA
PROFESSIONAL ENGINEER
06/30/2026

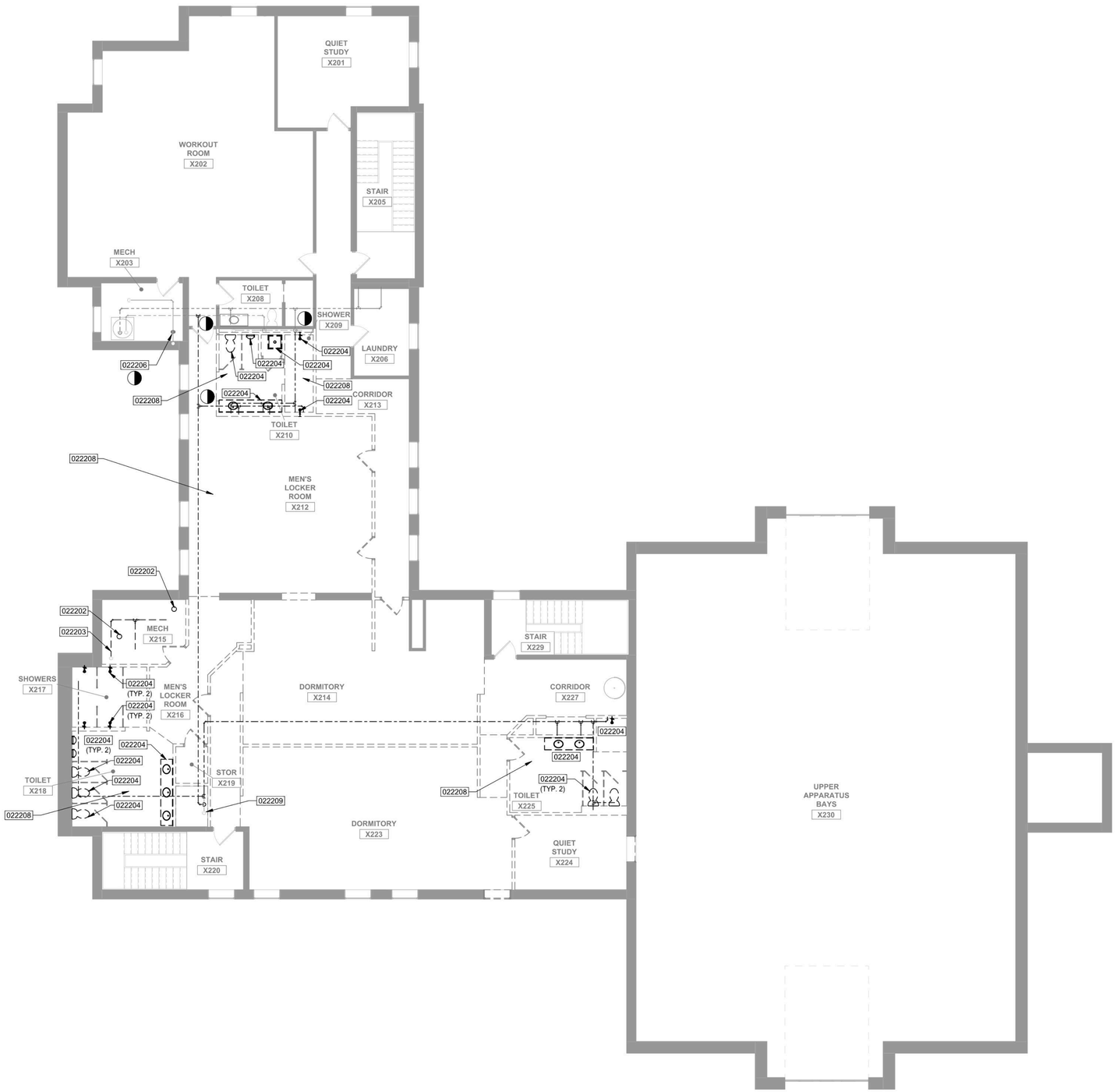
NO.	REVISION	DATE

DRAWN: CSH
DESIGNED: CSH
CHK'D: JRA
APPR'V'D: SSB
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

INDIANA
CARMEL
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION
PLUMBING AND FIRE PROTECTION GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

DRAWING NUMBER FP&P0.1 PLUMBING

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1 **SECOND FLOOR PLUMBING REMOVAL PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND P0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES AND ASSOCIATED ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO THE BOTTOM OF THE PIPE. SITE/CIVIL DRAWINGS TO ESTABLISH FINISHED FLOOR ELEVATION.

F. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR THE EQUIPMENT.

G. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.

KEYNOTES

022202	REMOVE EXISTING FLOOR DRAIN. TEMPORARILY PROTECT SANITARY PIPING TO CONNECT TO NEW DRAIN LOCATION. PATCH FLOORS AS NEEDED FOR DRAIN REMOVAL AND RE-INSTALLATION.
022203	EXISTING GAS PIPING SERVING FURNACES TO BE REMOVED. REMOVAL TO OCCUR TILL THE FLOOR LEVEL. TEMPORARILY CAP. PROTECT AND RELOCATE THE RISER LOCATION BASED ON WATER HEATER INSTALLATION FOR CONNECTION TO NEW WATER HEATER.
022204	REMOVE EXISTING FIXTURE AND ALL ASSOCIATED DOMESTIC WATER AND VENT PIPING ABOVE THE CEILING. CAP OFF AND ABANDON IN PLACE. REMOVE SANITARY PIPING TO FLOOR AND CAP AT FLOOR.
022206	DISCONNECT AND REMOVE GAS PIPING SERVING WATER HEATERS AND FURNACES. CAP PIPING AND ABANDON IN PLACE.
022208	REMOVE ALL EXISTING FLOOR DRAINS IN THE AREA. CAP OFF SANITARY PIPING BELOW THE FLOOR AND ABANDON IN PLACE. PATCH THE FLOOR AS NEEDED TO MATCH ADJACENT CONDITIONS.
022209	ANY EXISTING PIPING IN THE SHAFT WHICH HAS NOT BEEN INDICATED TO BE REMOVED TO REMAIN IN PLACE DURING WALL DEMOLITION AND WALL INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS TO PROTECT OR REINSTALL EXISTING PIPING WHICH IS SCHEDULED TO REMAIN AS PART OF NEW CONSTRUCTION.

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No. 12200004
STATE OF INDIANA
PROFESSIONAL ENGINEER
06/30/2026

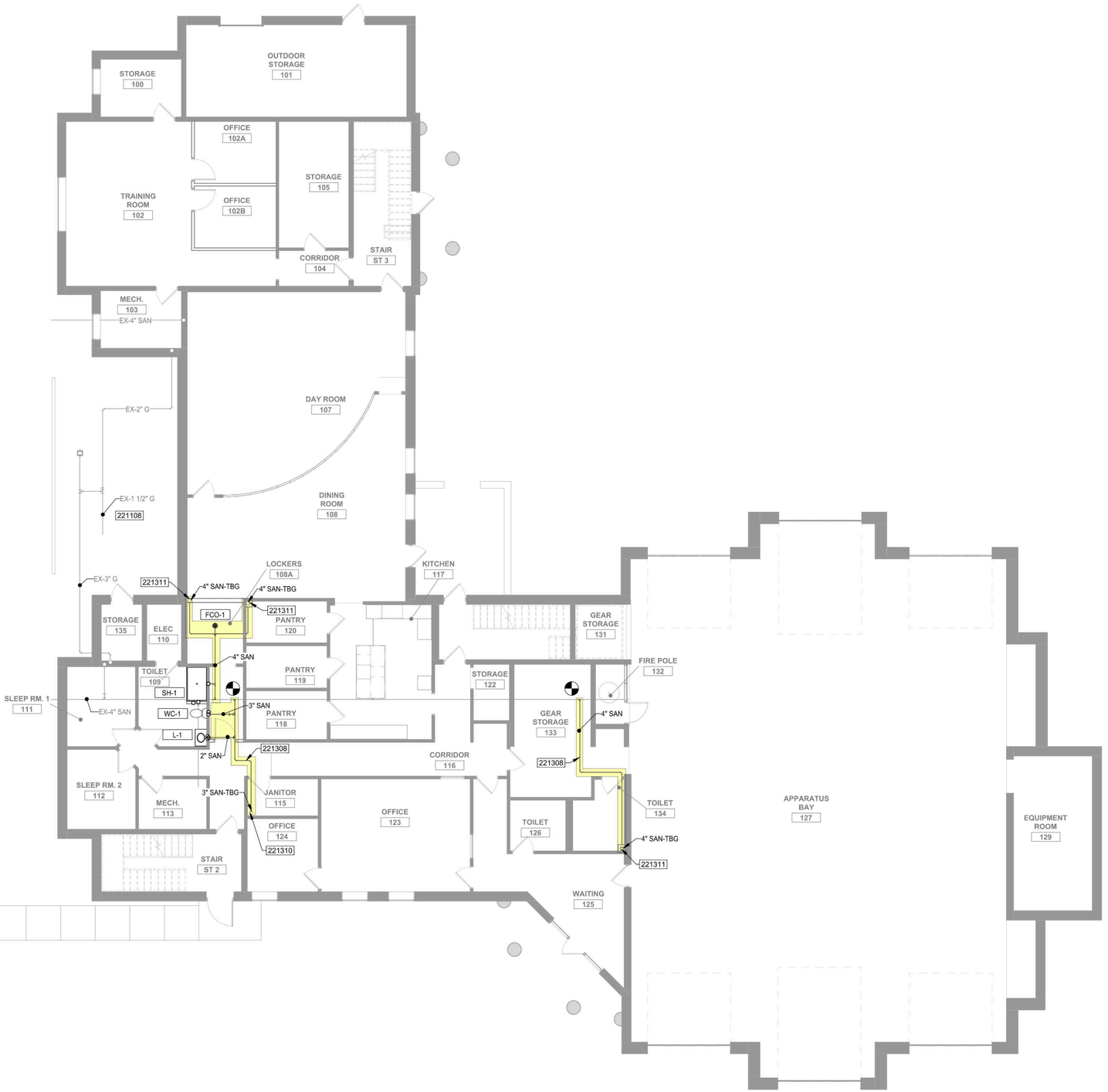
NO.	REVISION	DATE

DRAWN: CSH | CHK'D: JRA
DESIGNED: CSH
APPRV'D: SSB
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION
SECOND LEVEL PLUMBING REMOVAL PLAN

DRAWING NUMBER PD2.2
PLUMBING

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Mechanical_CSH_V
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1 **UNDERFLOOR PLUMBING INSTALLATION PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND P0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES AND ASSOCIATED ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO THE BOTTOM OF THE PIPE. SITE/CIVIL DRAWINGS TO ESTABLISH FINISHED FLOOR ELEVATION.

F. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR THE EQUIPMENT.

G. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.

KEYNOTES

221108	COORDINATE LOCATION OF HOUSING PAD WITH UNDERGROUND GAS LINE. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING UNDERGROUND GAS LINE IN THE AREA AS NEEDED TO REMAIN CLEAR OFF THE NEW HOUSING PAD. INCORPORATE AN ALLOWANCE FOR RELOCATION OF UNDERGROUND GAS LINE DOWNSTREAM OF THE METER.
221308	HIGHLIGHTED AREA INDICATES FLOOR TO BE SAW CUT TO INSTALL NEW SANITARY LINES. HIGHLIGHTED AREA INDICATED IS BASED ON THE EXISTING DRAWINGS PROVIDED TO DLZ AND MAY NOT BE REPRESENTATIVE OF ACTUAL SITE CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO VERIFY EXACT ROUTING AND AMOUNT OF SAW CUTTING ON SITE.
221310	CONTRACTOR SHALL PROVIDE A PINNED CLEANOUT ON THE RISER.
221311	PROVIDE WALL CLEANOUT ON THE PIPE RISER 24" A.F.F.

NOTE:
ELEMENTS ON THIS DRAWING ARE IDENTIFIED BY VARIOUS COLORS. IF THIS NOTE IS NOT RED, THIS DRAWING IS NOT PRINTED IN COLOR AND NEEDS TO BE REPRINTED IN COLOR.

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DATE: JUNE 30, 2026
CHK'D: JRA
PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

UNDERFLOOR PLUMBING PLAN

DRAWING NUMBER P2.0

PLUMBING

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1 **FIRST FLOOR PLUMBING INSTALLATION PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND P0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES AND ASSOCIATED ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON '100.00' FINISHED FIRST FLOOR ELEVATION TO THE BOTTOM OF THE PIPE. SITE/CIVIL DRAWINGS TO ESTABLISH FINISHED FLOOR ELEVATION.

F. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR THE EQUIPMENT.

G. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.

KEYNOTES

221108	COORDINATE LOCATION OF HOUSING PAD WITH UNDERGROUND GAS LINE. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING UNDERGROUND GAS LINE IN THE AREA AS NEEDED TO REMAIN CLEAR OFF THE NEW HOUSING PAD. INCORPORATE AN ALLOWANCE FOR RELOCATION OF UNDERGROUND GAS LINE DOWNSTREAM OF THE METER.
221304	2" SANITARY SERVING FLOOR DRAIN ABOVE.
221305	3" SANITARY SERVING WATER CLOSET ABOVE.
221306	2" SANITARY SERVING SINK ABOVE.
221307	2" SANITARY SERVING SHOWER ABOVE.
221309	3" SANITARY SERVING MOP SINK ABOVE.
221312	2" SANITARY SERVING ELECTRIC WATER COOLER ABOVE.
221313	ROUTE VENT PIPE TO CONNECT TO EXISTING VENT PIPING. CONTRACTOR TO VERIFY EXISTING VENT PIPING LOCATION.

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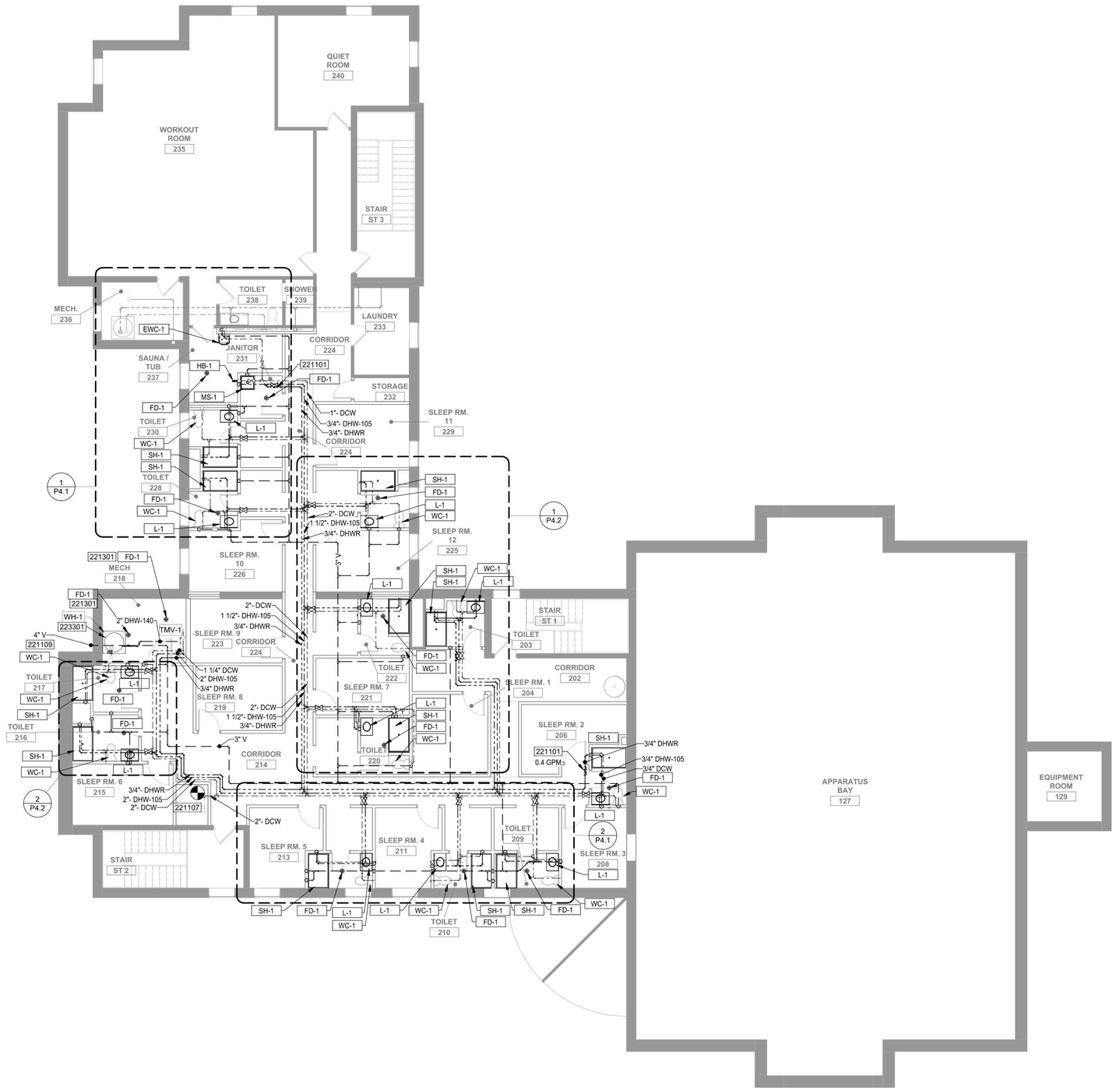
CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

FIRST FLOOR PLUMBING PLAN

DRAWING NUMBER P2.1

PLUMBING

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1 **SECOND FLOOR PLUMBING INSTALLATION PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND P0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

C. INSTALL ALL EQUIPMENT, FIXTURES AND ASSOCIATED ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATIONS.

D. COORDINATE WITH ALL OTHER DISCIPLINES BEFORE INSTALLING ANY PIPING DEVICES.

E. INVERT ELEVATIONS ARE BASED ON 100.00' FINISHED FIRST FLOOR ELEVATION TO THE BOTTOM OF THE PIPE. SITE/CIVIL DRAWINGS TO ESTABLISH FINISHED FLOOR ELEVATION.

F. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR THE EQUIPMENT.

G. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.

KEYNOTES

221101 PROVIDE SHUTOFF VALVE, CHECK VALVE AND SHUTOFF VALVE IN DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED ON THE DRAWINGS. PROVIDE CEILING MARKER AT THE LOCATION OF VALVE INSTALLATION FOR FUTURE IDENTIFICATION.

221107 CONNECT 2" DOMESTIC COLD WATER LINE TO EXISTING LINE IN THE CHASE.

221109 3" VENT PIPE THRU SIDEWALL. PROVIDE DOWNTURN ON VENT OUTLET.

221301 PROVIDE NEW FLOOR DRAIN. RECONNECT SANITARY PIPING FROM FLOOR BELOW TO THE NEW DRAIN LOCATION.

223301 PROVIDE NEW HOUSING PAD FOR THE WATER HEATER. REFER TO HOUSING PAD DETAILS ON HVAC DRAWINGS FOR MORE INFORMATION.

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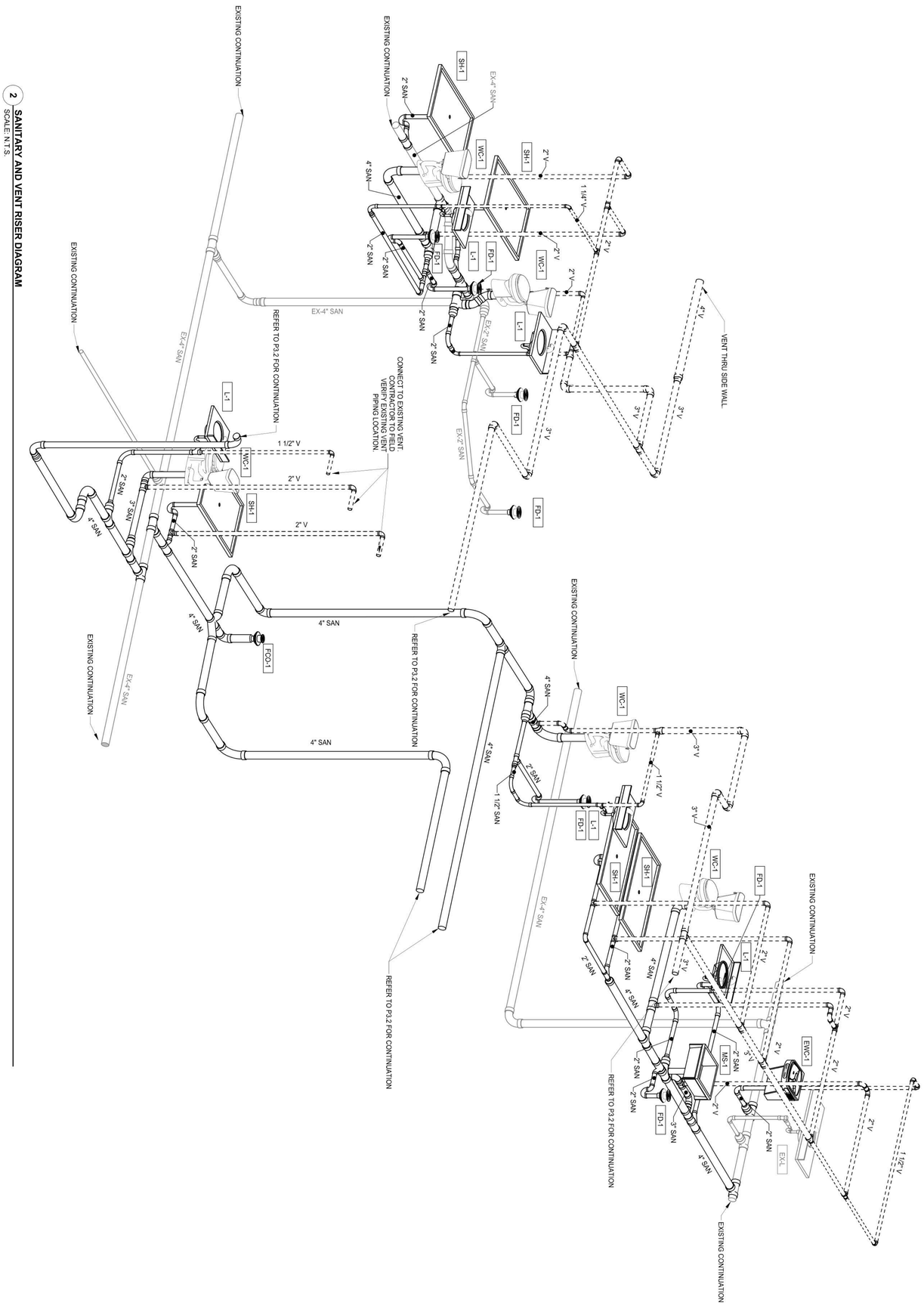
NO.	REVISION	DATE

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DESIGNED: CSH
APPRV'D: SSB
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION
SECOND FLOOR PLUMBING PLAN

DRAWING NUMBER P2.2
PLUMBING

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2 **SANITARY AND VENT RISER DIAGRAM**
SCALE: N.T.S.

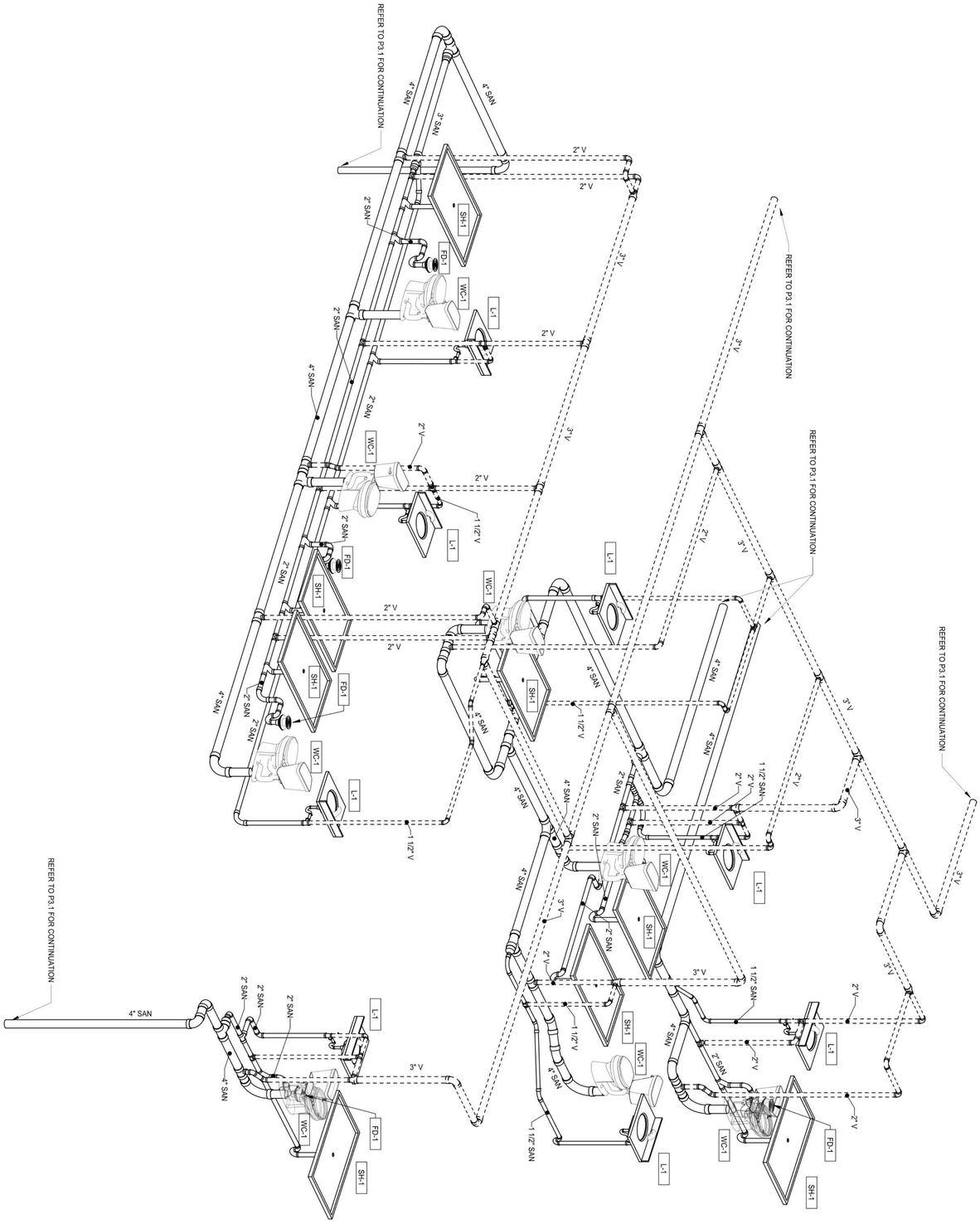
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				APPRV'D: SSB				
				DATE: JUNE 30, 2026				
	SANITARY AND VENT RISER DIAGRAMS			**PROJECT NUMBER** 2563-4069-90				
PLUMBING								

REGISTERED PROFESSIONAL ENGINEER
JONATHAN S. BRAY
STATE OF INDIANA
06.30.2026

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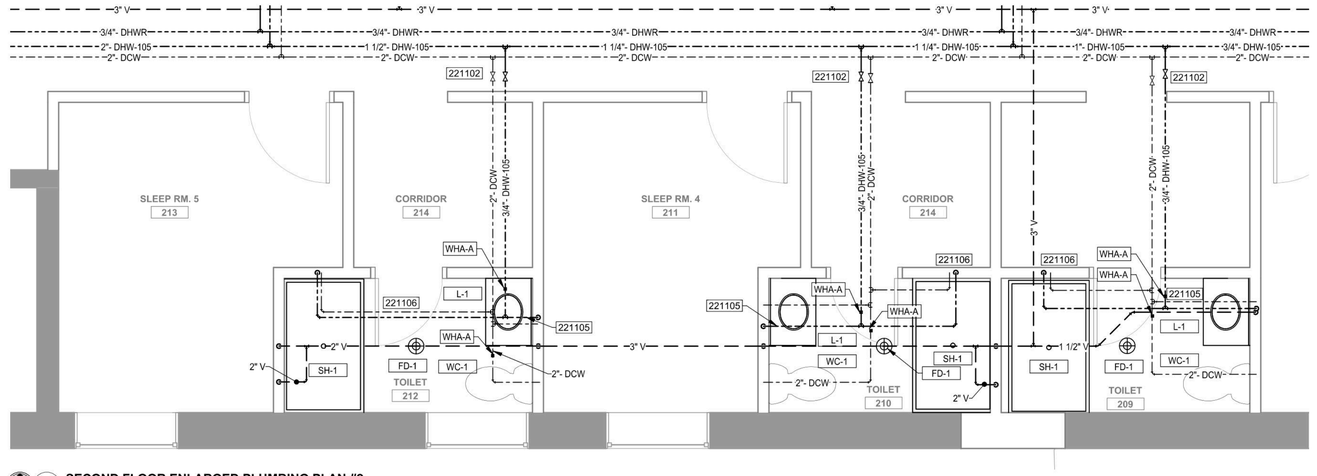
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1 **SANITARY VENT RISER DIAGRAM**
SCALE: N.T.S.



DRAWING NUMBER	CARMEL	INDIANA	**DRAWN:** CSH	**CHK'D:** JRA	**NO.**	**REVISION**	**DATE**
P3.2	CITY OF CARMEL CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION		**DESIGNED:** CSH				
			APPRV'D: SSB				
			DATE: JUNE 30, 2026				
	SANITARY AND VENT RISER DIAGRAMS II		**PROJECT NUMBER** 2563-4069-90				
PLUMBING							

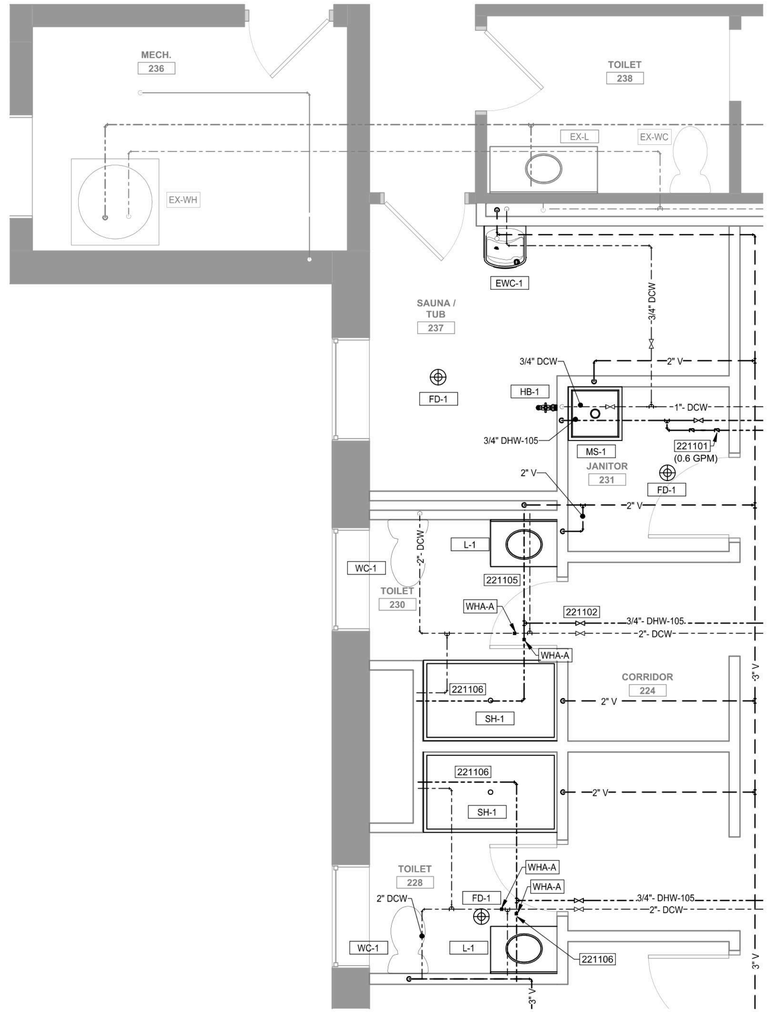
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NORTH

2 **SECOND FLOOR ENLARGED PLUMBING PLAN #2**

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



NORTH

1 **SECOND FLOOR ENLARGED PLUMBING PLAN #1**

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

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND P0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. WHERE PIPE SIZES MAY NOT BE INDICATED SERVING A FIXTURE, PROVIDE SIZES AS INDICATED IN THE PLUMBING FIXTURE SCHEDULE.

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F. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR THE EQUIPMENT.

G. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL PLANS TO MEET ADA REQUIREMENTS.

KEYNOTES

221101 PROVIDE SHUTOFF VALVE, CHECK VALVE AND SHUTOFF VALVE IN DIRECTION OF WATER FLOW. BALANCE TO FLOW INDICATED ON THE DRAWINGS. PROVIDE CEILING MARKER AT THE LOCATION OF VALVE INSTALLATION FOR FUTURE IDENTIFICATION.

221102 SHUTOFF VALVE FOR DOMESTIC COLD WATER AND DOMESTIC HOT WATER TO SERVE PRIVATE BATHROOM GROUP. PROVIDE CEILING MARKER AT THE LOCATION OF VALVE INSTALLATION FOR FUTURE IDENTIFICATION.

221105 3/4" DOMESTIC COLD WATER AND 3/4" DOMESTIC HOT WATER TO SERVE THE LAVATORY.

221106 3/4" DOMESTIC COLD WATER AND 3/4" DOMESTIC HOT WATER TO SERVE THE SHOWER.

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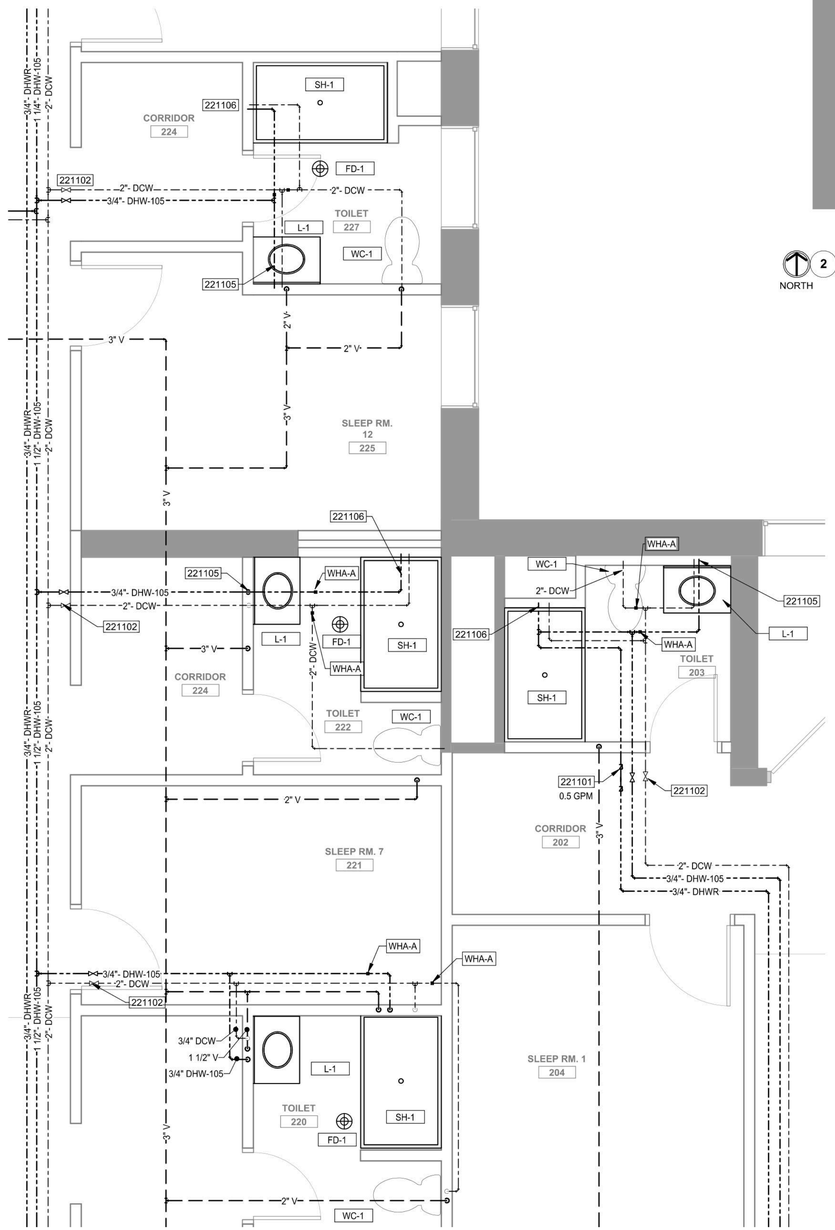
CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

PLUMBING ENLARGED PLANS

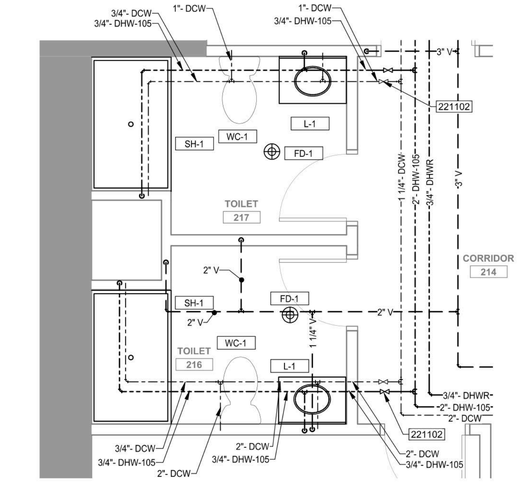
DRAWING NUMBER
P4.1

PLUMBING

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1 SECOND FLOOR ENLARGED PLUMBING PLAN #3
SCALE: 3/8" = 1'-0"
NORTH



2 SECOND FLOOR ENLARGED PLUMBING PLAN #4
SCALE: 3/8" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND P0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

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F. PROVIDE GAS PRESSURE REGULATORS AS NEEDED FOR THE EQUIPMENT.

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KEYNOTES

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221102 SHUTOFF VALVE FOR DOMESTIC COLD WATER AND DOMESTIC HOT WATER TO SERVE PRIVATE BATHROOM GROUP. PROVIDE CEILING MARKER AT THE LOCATION OF VALVE INSTALLATION FOR FUTURE IDENTIFICATION.

221105 3/4" DOMESTIC COLD WATER AND 3/4" DOMESTIC HOT WATER TO SERVE THE LAVATORY.

221106 3/4" DOMESTIC COLD WATER AND 3/4" DOMESTIC HOT WATER TO SERVE THE SHOWER.

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PROFESSIONAL ENGINEER
06/30/2026

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PROJECT NUMBER
2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION
PLUMBING ENLARGED PLANS II

DRAWING NUMBER
P4.2
PLUMBING

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SYMBOLS

AxB	RECTANGULAR DUCT DIMENSION
A/B	FLAT-OVAL DUCT DIMENSION
AØ	ROUND DUCT DIMENSION


RECTANGULAR SUPPLY OR OUTSIDE AIR DUCT - UP OR DOWN


RECTANGULAR RETURN AIR DUCT - UP OR DOWN


RECTANGULAR EXHAUST AIR DUCT - UP OR DOWN


ROUND SUPPLY OR OUTSIDE AIR DUCT - UP OR DOWN.


ROUND RETURN AIR DUCT - UP OR DOWN.


ROUND EXHAUST AIR DUCT - UP OR DOWN.


SUPPLY AIR DIFFUSER (SQUARE)


RETURN AIR GRILLE (SQUARE)


RETURN AIR GRILLE OR EXHAUST REGISTER (RECTANGULAR)


EXHAUST GRILLE (SQUARE)



DUCT SMOKE DETECTOR



BACKDRAFT DAMPER

CONTROL DAMPER


VOLUME DAMPER


ROUND DIFFUSER

SLOT DIFFUSER

BALL VALVE

BUTTERFLY VALVE


GATE VALVE



THERMOSTAT



REFRIGERANT SENSOR



TEMPERATURE SENSOR



EQUIPMENT TYPE (SEE ABBREVIATIONS)
SCHEDULE #



KEYNOTE



THERMOSTATIC MIXING VALVE
OUTLET TEMPERATURE SENSOR



BUILDING PRESSURE SENSOR



CARBON MONOXIDE SENSOR



NITROGEN DIOXIDE SENSOR



CARBON DIOXIDE SENSOR

REFRIGERANT LIQUID

REFRIGERANT SUCTION

CONDENSATE LINE

ABBREVIATIONS

AMPS	AMPERES
ADJ.	ADJUSTABLE
APD	AIR PRESSURE DROP
A.F.F	ABOVE FINISHED FLOR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FPM	FEET PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LBS	POUNDS
LWB	LEAVING WET BULB TEMPERATURE
OA	OUTSIDE AIR
PH	PHASE
PSI	POUNDS PER SQAURE INCH
RA	RETURN AIR
RH	ROOF HOOD
RM	ROOM
SA	SUPPLY AIR
SE	SMOKE EXHAUST
SENS	SENSIBLE
TSP	TOTAL STATIC PRESSURE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRICE
W.C.	WATER COLUMN
WPD	WATER PRESSURE DROP

PIPE ABBREVIATIONS

CONDENSATE	C
REFRIGERANT LIQUID	RL
REFRIGERANT SUCTION	RS

HVAC BASIS OF DESIGN

SUMMER	
OUTDOOR	91°FDB, 73°F WB
INDOOR	75°FDB, 63°F WB
WINTER	
OUTDOOR	-3°F DB
INDOOR	70°F DB

GENERAL NOTES

1. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH INDIANA MECHANICAL CODE, LATEST APPLICABLE EDITION, THE AUTHORITY HAVING JURISDICTION AND AS SPECIFIED (WHICHEVER IS MORE STRINGENT).
2. IF NON-DESIGN BASE EQUIPMENT IS SELECTED, THIS CONTRACTOR SHALL BEAR ANY ADDITIONAL COSTS FOR MODIFICATION TO THE PROPOSED BUILDING SYSTEM CAUSED BY SELECTION OF THE NON-DESIGN BASE EQUIPMENT INCLUDING COSTS FOR ARCHITECT/ENGINEER REVIEW. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIALS, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.
3. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS. IF DIMENSIONS CANNOT BE ACCURATELY DETERMINED, REQUEST THE INFORMATION FROM THE ARCHITECT/ENGINEER.
4. KEY NOTES ARE MEANT AS A GENERAL GUIDE FOR TYPICAL LOCATIONS. CONTRACTOR TO PERFORM FULL EXTENT OF WORK REQUIRED TO ACCOMPLISH DESIGN INTENT.
5. CONTRACTOR IS RESPONSIBLE FOR ALL WORK IDENTIFIED ON ALL DRAWINGS AND INFORMATION IN THE PROJECT MANUAL, AS A COMPLETE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SPECIFIC SCOPE OF WORK FOR ANY SUBCONTRACTORS FOR THIS PROJECT EXCEPT AS SPECIFICALLY NOTED.
6. CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL WALLS AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR FIRE PROTECTION ITEMS MAY BE REQUIRED, WHETHER INDICATED ON THE PLANS OR NOT. ACCESS DOORS SHALL BE OF AN APPROPRIATE SIZE REQUIRED FOR EACH APPLICATION. WHERE APPLICABLE, ACCESS DOORS SHALL MATCH THE FIRE RATING OF THE WALL/CEILING ASSEMBLY.
7. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AS NECESSARY AND COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.
8. DUCTWORK:
   A. ALL LISTED DUCTWORK DIMENSIONS ARE CLEAR AIR FLOW DIMENSIONS.
   B. ALL DUCTS IN FINISHED ROOMS AND SPACES SHALL BE CONCEALED IN CHASES OR ABOVE THE CEILINGS, UNLESS OTHERWISE NOTED.
   C. FIELD VERIFY LOCATION OF BEAMS, GENERAL STRUCTURE, LIGHTING, PIPING, ETC., BEFORE FABRICATION AND INSTALLATION OF DUCTWORK COORDINATE ELEVATIONS, OFFSETS, AND TRANSITIONS AS REQUIRED.
   D. MAXIMUM LENGTH OF FLEX DUCT SHALL BE 5'-0". FLEX DUCT SHALL NOT BE USED WHERE DUCTWORK IS EXPOSED. THE LAST ELBOW BEFORE CONNECTION TO AN AIR DEVICE SHALL BE A HARD DUCT. INSULATE FLEXIBLE DUCTWORK TILL THE FINAL CONNECTION TO DIFFUSER.
   E. VOLUME DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTS.
   F. THE ELBOWS FOR DUCTWORK SHALL HAVE TURNING VANES UNLESS NOTED OTHERWISE.
   G. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR AIR DEVICE LOCATIONS.
   H. ALL AIR DEVICES IN CMU WALLS SHALL MATCH BLOCK COURSING.
   I. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED WALLS, FLOORS AND SMOKE BARRIERS. CONTRACTOR SHALL PROVIDE FIRE DAMPERS, SMOKE DAMPERS IN ALL DUCTS PENETRATING SAID WALLS/FLOOR, WHETHER INDICATED ON THE MECHANICAL PLANS OR NOT.
9. ALL HANGER SYSTEMS FOR PIPING, GRILLES, DIFFUSERS AND EQUIPMENT SHALL BE SECURED TO BUILDING STRUCTURAL SYSTEM.
10. COORDINATE ALL WORK WITH EXISTING WORK TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
11. CONNECTION TO EQUIPMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATION.
12. ALL MECHANICAL EQUIPMENT REQUIRING NATURAL GAS SHALL BE FURNISHED WITH PRESSURE REGULATOR. THE GAS PRESSURE REGULATOR SHALL REGULATE THE GAS PRESSURE BETWEEN THE INLET AND OPERATING PRESSURE OF THE EQUIPMENT. PROVIDE VENT TO OUTDOOR FROM EACH REGULATOR.
13. ALL HVAC CONTROL WIRING SHALL BE PROVIDED BY DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED. EXPOSED CONTROL WIRING SHALL BE IN CONDUIT. TEMPERATURE CONTROL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND LOCATING ANY 24V TRANSFORMERS REQUIRED FOR CONTROL COMPONENTS. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR ANY WIRING GREATER THAN 24V. DIVISION 23 CONTRACTOR IS RESPONSIBLE FOR ANY WIRING 24 V AND SMALLER.
14. REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT PRECONSTRUCTION TESTING AND BALANCING AT ALL THE AIR TERMINALS (GRILLES AND DIFFUSERS) WHICH ARE SCHEDULED TO BE REPLACED AS PART OF CEILING REPLACEMENT. PROVIDE RECORDS FOR ENGINEER AND OWNER. POST INSTALLATION OF NEW GRILLES AND DIFFUSERS, CONTRACTOR SHALL BE RESPONSIBLE FOR REBALANCING THESE TO PREVIOUS CFM OBTAINED AS PART OF PRECONSTRUCTION TESTING. PRECONSTRUCTION TESTING AND POST CONSTRUCTION BALANCING SHALL ALSO OCCUR AT FURNACES WHICH SERVE THESE GRILLES AND DIFFUSERS.
16. PROVIDE CEILING MARKERS AT LOCATIONS OF VALVES, EQUIPMENT AND DAMPERS ABOVE THE CEILING. FOR LOCATIONS OF EQUIPMENT, THE MARKER SHALL HIGHLIGHT THE TAG OF EQUIPMENT.

GENERAL DEMOLITON NOTES

1. REFER TO DRAWINGS OF ALL OTHER DISCIPLINES FOR ADDITIONAL REMOVALS AND SELECTIVE DEMOLITION ACTIVITIES.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SELECTIVE DEMOLITION ACTIVITIES. ANY ITEMS NOT INDICATED ON THE DRAWINGS OR SPECIFICATIONS THAT ARE IN CONFLICT WITH CONTRACT WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID FOR CLARIFICATION.
3. FOR THE DURATION OF THE PROJECT, IF ANY EXISTING ITEM IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPAIRED AND RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED, INCLUDING REPAIR AND FINISHING TO MATCH ADJACENT SURFACES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED, INCLUDING ASSOCIATED REPAIR AND FINISHING TO MATCH ADJACENT SURFACES.
6. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY ENVIRONMENTAL CONTROL MEASURES INCLUDING ACCEPTABLE AIR QUALITY CONTROL MEASURES, DUST CONTROL, EROSION CONTROL AND OTHER MEASURES REQUIRED FOR PROTECTION OF THE PROPERTY DURING SELECTIVE DEMOLITION AND CONSTRUCTION ACTIVITIES.
7. CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING CONTRACT DRAWINGS WITH FIELD CONDITIONS AND WORK ASSOCIATED WITH EACH TRADE.
8. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH NEW WORK TO VERIFY DIMENSIONS AND EXTENT OF REMOVALS PRIOR TO BEGINNING OF WORK.
9. CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE AND REINSTALLATION OF REMAINING WALL MOUNTED DEVICES INTENDED FOR REUSE.
10. ALL DEMOLITION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE STATE OF INDIANA, LOCAL BUILDING CODES, OSHA AND NFPA (WHICHEVER IS MORE STRINGENT).
11. OWNER RESERVES THE RIGHT TO SALVAGE ANY EQUIPMENT OR MATERIAL INDICATED TO BE DEMOLISHED.
12. PLANS ARE FOR DIAGRAMMATIC PURPOSES ONLY, BASED ON LIMITED SITE OBSERVATIONS. CONTRACTOR TO REMOVE ANY UNUSED / ABANDONED DUCTWORK, EQUIPMENT, PIPING (GAS, REFRIGERANT ETC.), ASSOCIATED ACCESSORIES WHETHER INDICATED ON THE PLANS OR NOT. CONTRACTOR TO VERIFY EXTENT OF DEMOLITION ON THE FIELD AND COORDINATE WITH THE ENGINEER (AT NO ADDITIONAL COST TO THE OWNER). PATCH WALLS AND/OR FLOOR TO MATCH ADJACENT CONDITIONS.

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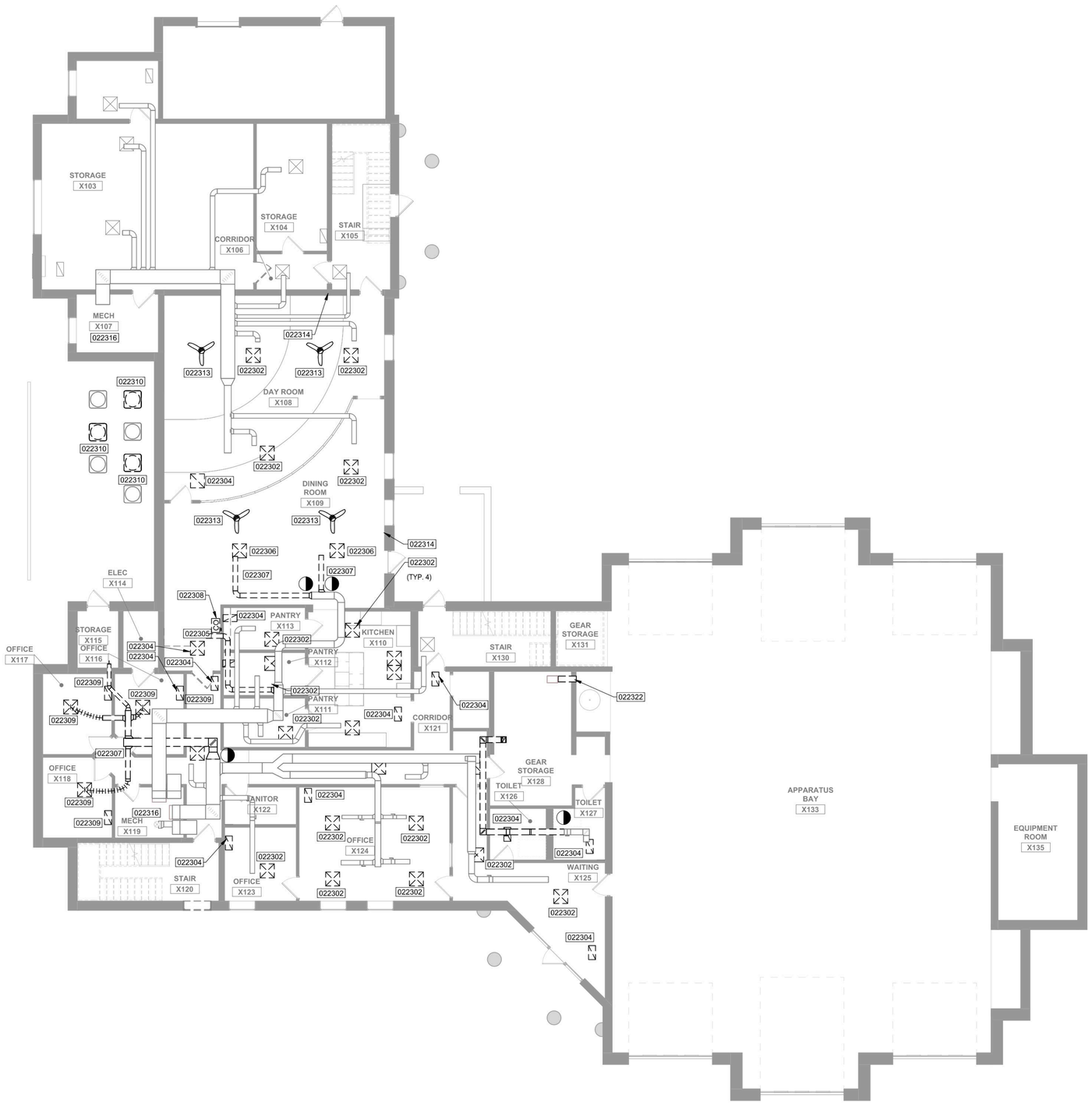
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DESIGNED: CSH
APPRV'D: SSB
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PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

GENERAL INFORMATION

DRAWING NUMBER M0.1

MECHANICAL



1 **FIRST FLOOR MECHANICAL DUCTWORK PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH THE STRUCTURAL TRADES.

D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS.

E. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

F. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

G. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

H. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR.

I. COORDINATE ALL WORK WITH OTHER TRADES.

KEYNOTES

022302	REMOVE EXISTING DIFFUSER FOR REPLACEMENT WITH A NEW DIFFUSER IN ITS PLACE. PREPARE DUCTWORK FOR CONNECTION TO NEW UNIT. CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT PRECONSTRUCTION TESTING TO IDENTIFY CFM AT THE AIR TERMINAL PRIOR TO REMOVAL.
022304	REMOVE EXISTING GRILLE FOR REPLACEMENT WITH A NEW GRILLE IN ITS PLACE.
022305	REMOVE EXISTING DIFFUSER FOR REPLACEMENT WITH A NEW DIFFUSER IN ITS PLACE. PREPARE DUCTWORK FOR CONNECTION TO NEW UNIT.
022306	REMOVE EXISTING DIFFUSER FOR REPLACEMENT WITH A NEW DIFFUSER IN ITS PLACE
022307	REMOVE EXISTING DUCTWORK TO THE POINT INDICATED ON THE DRAWINGS. PATCH DUCTWORK OPENING.
022308	REMOVE EXISTING CO SENSOR. REMOVE CONTROL WIRING TO ABOVE THE CEILING AND PREPARE FOR CONNECTION TO RELOCATED SENSOR LOCATION. PATCH WALLS AS NEEDED TO MATCH ADJACENT CONDITIONS.
022309	REMOVE EXISTING DIFFUSER/GRILLE.
022310	REMOVE CONDENSING UNITS AC-4 AND AC-5. RESIZE HOUSING PAD AS NEEDED TO INSTALL NEW VRF UNITS. REMOVE ALL ASSOCIATED REFRIGERANT PIPING UP TO THE FURNACE COMPLETELY. TEMPORARILY PROTECT REFRIGERANT LINE WALL OPENINGS TO BE REUSED FOR VRF SYSTEM REFRIGERANT PIPING. FOR OPENINGS WHICH ARE NOT USED FOR NEW REFRIGERANT PIPING INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING THE WALL AND PAINTING TO MATCH ADJACENT CONDITIONS
022313	REMOVE EXISTING CEILING FANS FOR INSTALLATION OF NEW FANS IN THEIR PLACE.
022314	REMOVE EXISTING FAN CONTROLLER AND PREPARE FOR NEW FAN CONTROLLER INSTALLATION IN ITS PLACE.
022316	CONTRACTOR SHALL BE RESPONSIBLE FOR PRECONSTRUCTION TESTING OF SUPPLY FAN CFM AT EACH OF THE FURNACE UNITS IN THE SPACE. REBALANCE THE FURNACE UNIT BACK TO CFM OBTAINED AS PART OF PRECONSTRUCTION TESTING AS PART OF POST CONSTRUCTION BALANCING. PROVIDE RECORDS OF BOTH PRECONSTRUCTION AND POST CONSTRUCTION TESTING AND BALANCING TO THE OWNER AND ENGINEER.
022322	TEMPORARILY DISCONNECT AND REMOVE EXHAUST DUCT SERVING GEAR STORAGE.

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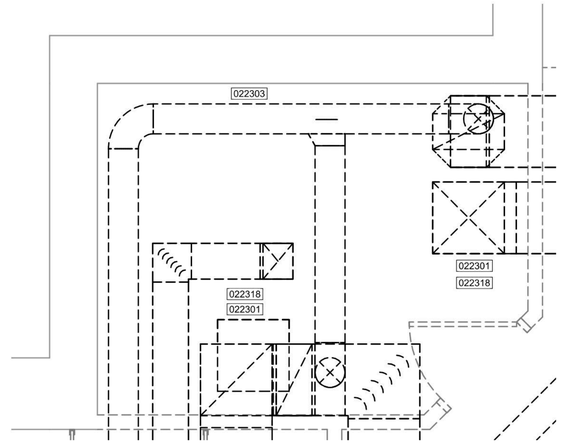
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APPRV'D: SSB
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CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

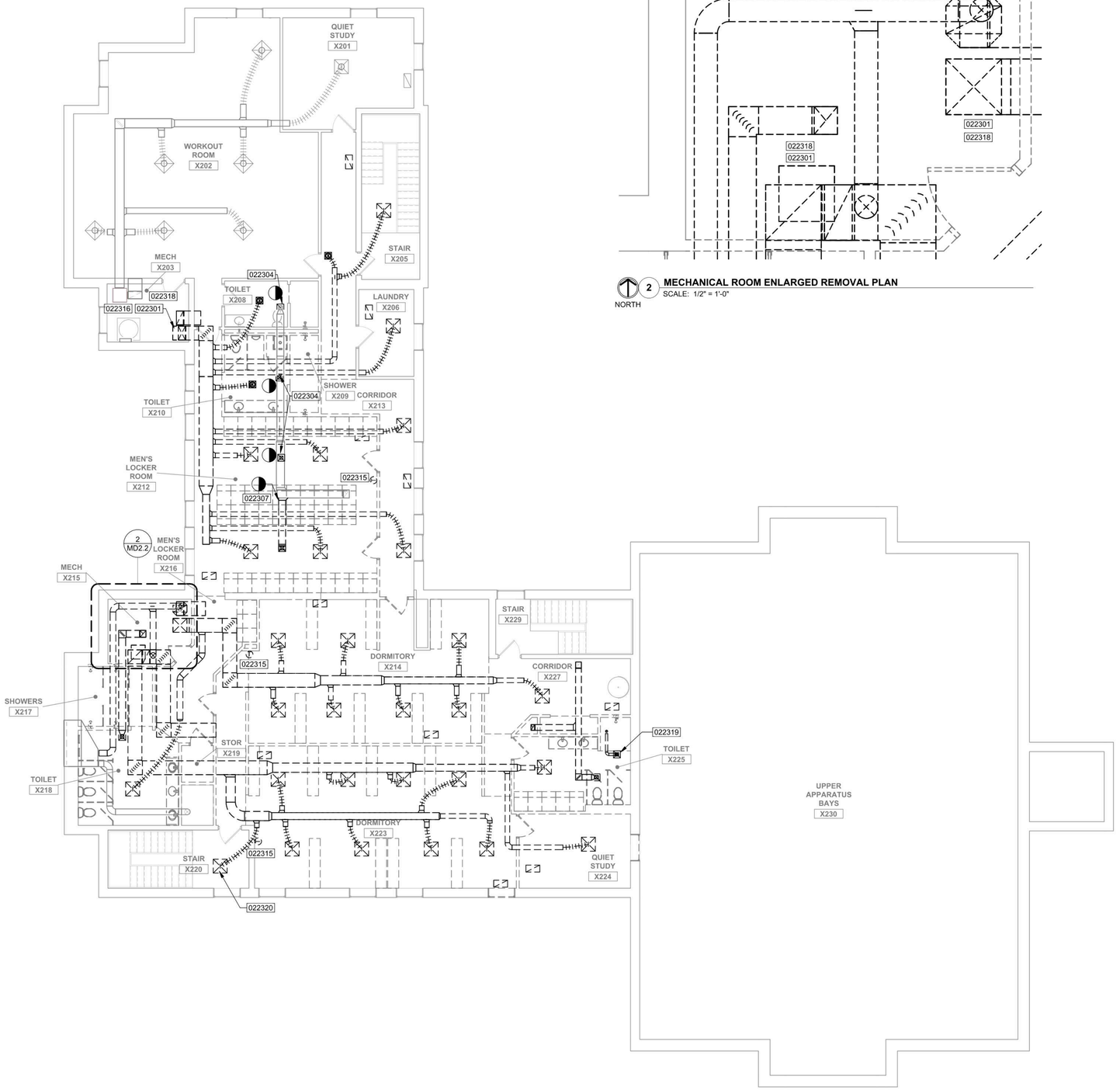
FIRST FLOOR MECHANICAL REMOVAL DUCTWORK PLAN

DRAWING NUMBER MD2.1
MECHANICAL

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2 **MECHANICAL ROOM ENLARGED REMOVAL PLAN**
SCALE: 1/2" = 1'-0"
NORTH



1 **SECOND FLOOR PLAN MECHANICAL REMOVAL PLAN**
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH THE STRUCTURAL TRADES.

D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS.

E. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

F. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

G. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

H. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR.

I. COORDINATE ALL WORK WITH OTHER TRADES.

KEYNOTES

022301	EXISTING FURNACE TO BE REMOVED. REMOVE DUCTWORK, FLUES AND PIPING ASSOCIATED WITH THE UNIT COMPLETELY. REMOVE ASSOCIATED RETURN AIR SMOKE DETECTORS WITH THE UNIT AS WELL. EXISTING HOUSING PADS ASSOCIATED WITH THE UNIT TO BE REMOVED FULLY. PATCH ROOFS AND WALLS AS NEEDED FOR REMOVAL OF FLUES AND INTAKES.
022303	REMOVE FLUES FROM FURNACE ON THE WALL (TYP. 2). CAP OFF AND TEMPORARILY PROTECT THE OPENINGS TO BE USED AND FLUES AND VENTS FOR NEW WATER HEATER.
022304	REMOVE EXISTING GRILLE FOR REPLACEMENT WITH A NEW GRILLE IN ITS PLACE.
022307	REMOVE EXISTING DUCTWORK TO THE POINT INDICATED ON THE DRAWINGS. PATCH DUCTWORK OPENING.
022315	REMOVE EXISTING THERMOSTAT. REMOVE ALL ASSOCIATED CONTROL WIRING.
022316	CONTRACTOR SHALL BE RESPONSIBLE FOR PRECONSTRUCTION TESTING OF SUPPLY FAN CFM AT EACH OF THE FURNACE UNITS IN THE SPACE. REBALANCE THE FURNACE UNIT BACK TO CFM OBTAINED AS PART OF PRECONSTRUCTION TESTING AS PART OF POST CONSTRUCTION BALANCING. PROVIDE RECORDS OF BOTH PRECONSTRUCTION AND POST CONSTRUCTION TESTING AND BALANCING TO THE OWNER AND ENGINEER.
022318	FOR FURNACES WHICH ARE REMOVED, REMOVE ASSOCIATED HOUSING PADS FULLY.
022319	REMOVE EXISTING CEILING EXHAUST FAN. REMOVE ALL ASSOCIATED DUCTWORK. PATCH CEILING, WALLS, AND ROOF TO MATCH ADJACENT CONDITIONS AFTER REMOVAL.
022320	ANY EXISTING DUCTWORK OR MECHANICAL PIPING WHICH IS NOT SCHEDULE TO BE DEMOLISHED SHALL REMAIN IN PLACE DURING WALL DEMOLITION AND WALL INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS TO PROTECT OR REINSTALL EXISTING DUCTWORK OR MECHANICAL PIPING WHICH IS SCHEDULED TO REMAIN AS PART OF NEW CONSTRUCTION.

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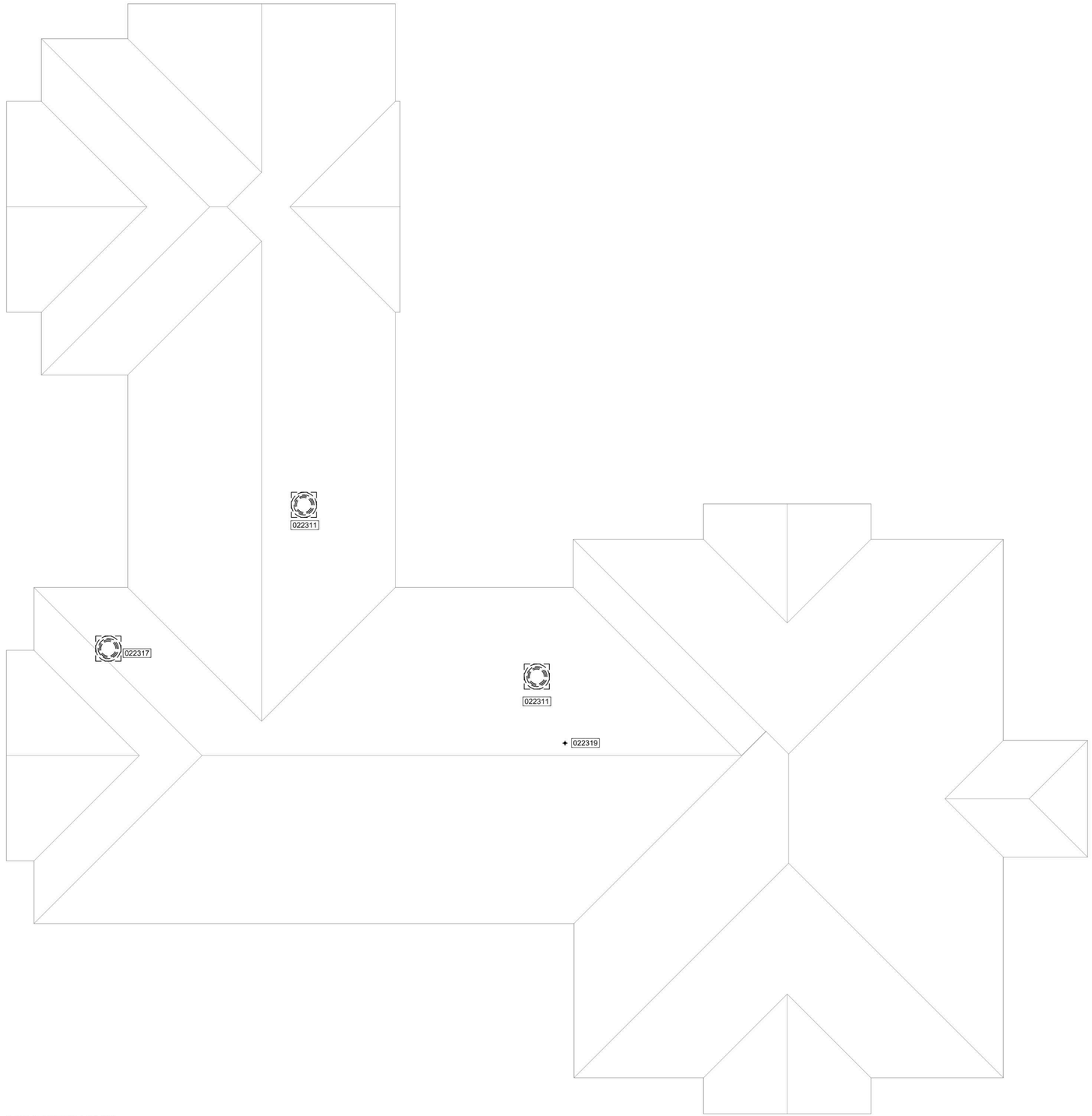
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PROJECT NUMBER 2563-4069-90

CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

SECOND FLOOR MECHANICAL REMOVAL DUCTWORK PLAN

DRAWING NUMBER
MD2.2
MECHANICAL

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

NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH THE STRUCTURAL TRADES.

D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS.

E. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

F. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

G. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

H. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR.

I. COORDINATE ALL WORK WITH OTHER TRADES.

KEYNOTES

022311	EXISTING EXHAUST FAN TO BE REMOVED FOR INSTALLATION OF NEW FAN. TEMPORARILY PROTECT THE DUCTWORK TO CONNECT TO NEW FAN.
022317	EXISTING EXHAUST FAN TO BE REMOVED FOR INSTALLATION OF NEW RELIEF HOOD IN ITS PLACE. PREPARE AS NEEDED FOR NEW INSTALLATION.
022319	REMOVE EXISTING CEILING EXHAUST FAN. REMOVE ALL ASSOCIATED DUCTWORK. PATCH CEILING, WALLS, AND ROOF TO MATCH ADJACENT CONDITIONS AFTER REMOVAL.

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ROOF MECHANICAL REMOVAL PLAN

DRAWING NUMBER
MD2.3
MECHANICAL

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1 **FIRST FLOOR DUCTWORK INSTALLATION PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH THE STRUCTURAL TRADES.

D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS.

E. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

F. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

G. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

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I. COORDINATE ALL WORK WITH OTHER TRADES.

KEYNOTES

230002	REBALANCE FURNACE TO NEW CFM BASED ON MODIFICATIONS TO THE SPACE.
230003	REBALANCE EXHAUST AIR GRILLE TO 70 CFM.
230004	INSTALL NEW CEILING FANS IN PLACE OF EXISTING CEILING FANS.
233102	AIR TERMINAL SHALL BE PROVIDED WITH FRONT OPERATED DAMPER. PROVIDE PREPARED ALUMINUM FINISH.
233105	PROVIDE TRANSFER AIR Z-DUCT WITHOUT TURNING VANES TO PREVENT NOISE TRANSMISSION. PROVIDE WIRE MESH AT DUCTWORK OPENINGS.
233109	CONTRACTOR TO LEAK TEST ENTIRE EXISTING EXHAUST DUCTWORK BRANCH. CONTRACTOR TO IDENTIFY ALL LEAKS AND PATCH AND REPAIR ALL LEAKS. CONTRACTOR TO PROVIDE AN ALLOWANCE FOR PERFORMING LEAK/REPAIR WORK.
233110	REROUTE DUCT FROM EXHAUST FAN SERVING GEAR STORAGE AS INDICATED. PROVIDE WIRE MESH OVER DUCT OPENING.
233701	INSTALL NEW DIFFUSER IN PLACE OF EXISTING DIFFUSER. RECONNECT TO DUCTWORK. REBALANCE DIFFUSER TO THE CFM OBTAINED AS PART OF PRECONSTRUCTION TESTING.
233702	INSTALL NEW GRILLE IN PLACE OF EXISTING.
233704	BALANCE SUPPLY AIR GRILLE TO THE SAME CFM AS EXHAUST AIR GRILLE. EXHAUST AIR GRILLE CFM SHALL BE THE SAME CFM AS OBTAINED IN PRECONSTRUCTION TESTING.

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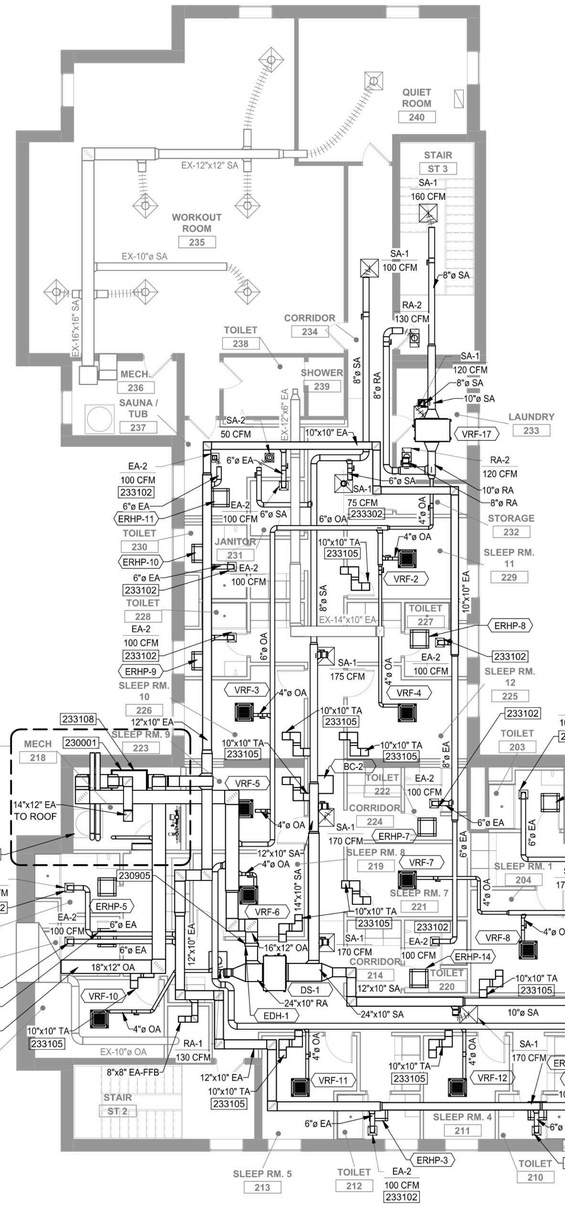
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CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

FIRST FLOOR MECHANICAL DUCTWORK PLAN

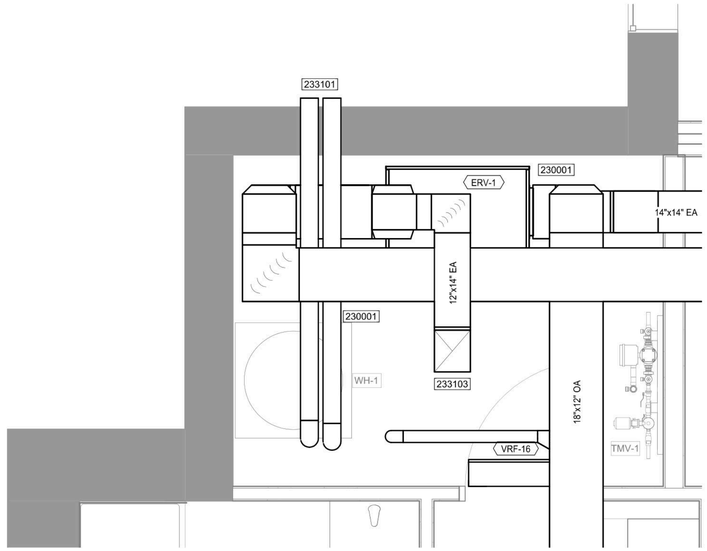
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MECHANICAL

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1 **SECOND FLOOR PLAN MECHANICAL INSTALLATION PLAN**
SCALE: 1/8" = 1'-0"
NORTH



2 **ENLARGED MECHANICAL ROOM DUCTWORK PLAN**
SCALE: 1/2" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH THE STRUCTURAL TRADES.

D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS.

E. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

F. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

G. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

H. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR.

I. COORDINATE ALL WORK WITH OTHER TRADES.

KEYNOTES

230001 PROVIDE NEW HOUSING PAD TO SERVE THE UNIT.

230905 PROVIDE A TEMPERATURE SENSOR UPSTREAM OF THE ELECTRIC DUCT HEATER. THE SENSOR SHALL MONITOR PRECONDITIONED OUTSIDE AIR. WHENEVER THE OUTSIDE AIR TEMPERATURE FALLS BELOW 50 F (ADJ.). THE ELECTRIC DUCT HEATER SHALL TURN ON AND RUN VIA SCR CONTROLS TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 90 F (ADJ.).

233101 VENT AND AIR INTAKE THROUGH THE SIDEWALL. REUSE PENETRATIONS SERVING PREVIOUS FURNACE UNITS. PROVIDE A FLUSH MOUNTED KIT FOR BOTH TERMINATIONS. SIZE AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. PAINT THE VENT KIT ON SITE TO MATCH ADJACENT WALL COLOR.

233102 AIR TERMINAL SHALL BE PROVIDED WITH FRONT OPERATED DAMPER. PROVIDE PREPARED ALUMINUM FINISH.

233103 CONTRACTOR SHALL BE RESPONSIBLE FOR REUSING EXISTING ROOF PENETRATION AND MODIFYING AS REQUIRED TO INSTALL DUCTWORK TO SERVE NEW RELIEF HOOD BEING INSTALLED IN PLACE OF EXISTING EXHAUST FAN.

233105 PROVIDE TRANSFER AIR Z-DUCT WITHOUT TURNING VANES TO PREVENT NOISE TRANSMISSION. PROVIDE WIRE MESH AT DUCTWORK OPENINGS.

233108 INSTALL NEW HOUSING PAD FOR ERV.

233301 PROVIDE BAROMETRIC RELIEF DAMPER ON DUCTWORK.

233302 PROVIDE REMOTE OPERATED DAMPER TO SERVE AIR TERMINAL.

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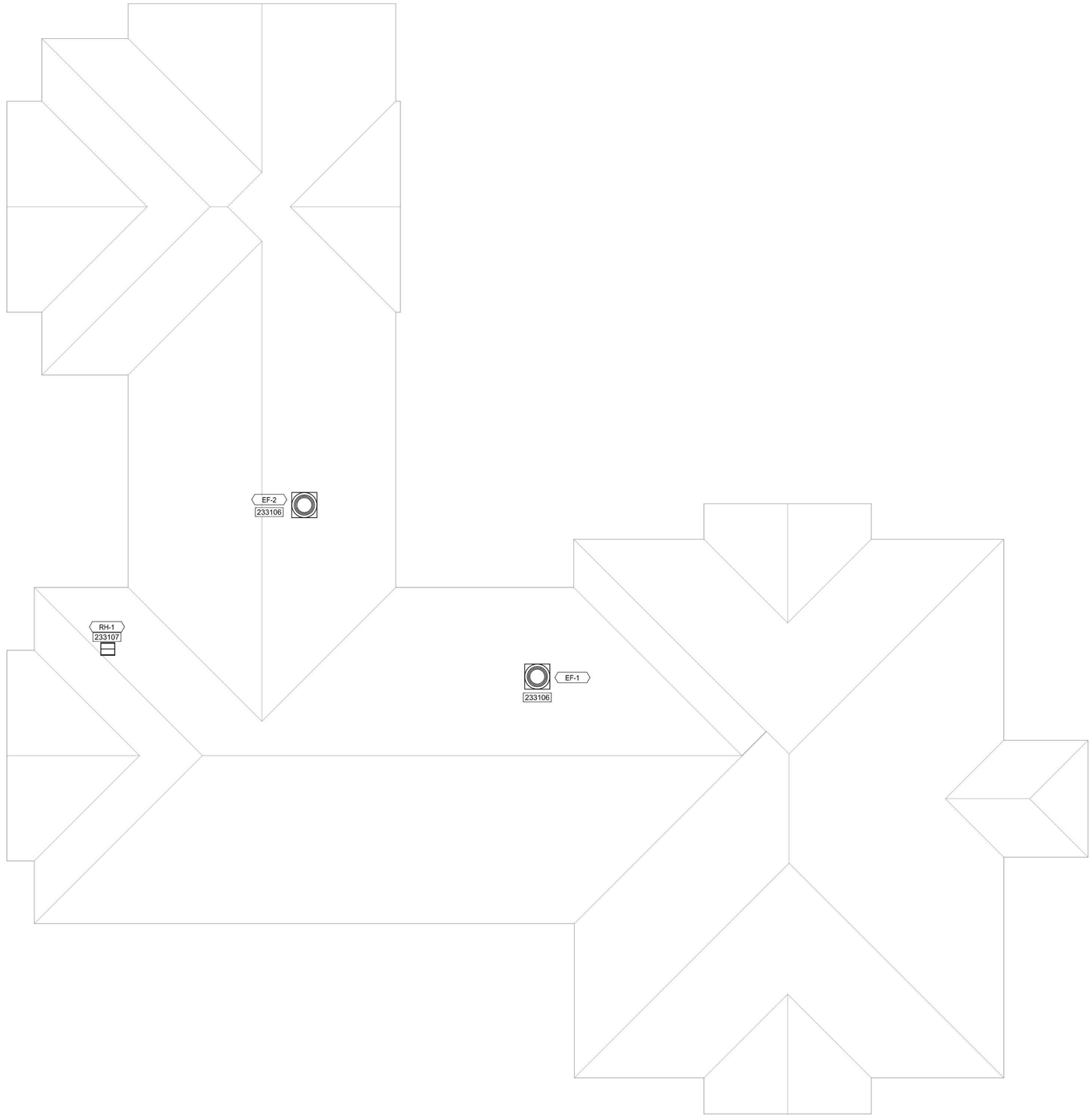
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PROJECT NUMBER 2563-4069-90

CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION
SECOND FLOOR MECHANICAL DUCTWORK PLAN

DRAWING NUMBER M2.2 MECHANICAL

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

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH THE STRUCTURAL TRADES.

D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS.

E. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

F. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

G. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

H. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR.

I. COORDINATE ALL WORK WITH OTHER TRADES.

KEYNOTES

233106 INSTALL NEW EXHAUST FAN IN PLACE OF EXISTING. CONNECT TO EXISTING DUCTWORK IN PLACE. PROVIDE NEW ROOF CURB IN PLACE OF EXISTING.

233107 REUSE EXISTING ROOF CURB FOR ROOF HOOD. PROVIDE CURB ADAPTER. PROVIDE NEW ROOF CURB IN PLACE OF EXISTING.

DLZ
Connect. Build. Thrive.
DLZ Indiana, LLC

SIDDHARTH S. BHAT
REGISTERED
No. 12200004
STATE OF INDIANA
PROFESSIONAL ENGINEER
06/30/2026

NO.	REVISION	DATE

DRAWN: CSH | CHK'D: JRA
DESIGNED: CSH
APPRV'D: SSB
DATE: JUNE 30, 2026

PROJECT NUMBER
2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

ROOF MECHANICAL INSTALLATION PLAN

DRAWING NUMBER
M2.3

MECHANICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Mechanical.rvt
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1 **FIRST FLOOR HYDRONIC PIPING INSTALLATION PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH THE STRUCTURAL TRADES.

D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS.

E. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

F. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

G. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

H. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR.

I. COORDINATE ALL WORK WITH OTHER TRADES.

KEYNOTES

230005	PROVIDE NEW FAN CONTROLLER IN PLACE OF EXISTING FAN CONTROLLER. A SINGLE FAN CONTROLLER SHALL CONTROL BOTH THE FANS IN THE SPACE.
230007	PROVIDE SURFACE MOUNTED RACEWAY FOR CONTROLLER.
230903	VRF SYSTEM CONTROLLER TO BE LOCATED IN THIS ROOM.
232103	ROUTE CONDENSATE LINE TO NEAREST FLOOR DRAIN.
232104	RELOCATE CARBON MONOXIDE SENSOR TO THE NEW LOCATION AS INDICATED ON THE PLANS. RECONNECT TO CONTROL WIRING AND EXISTING CONTROLS.

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APPRVD: SSB
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CHK'D: JRA
PROJECT NUMBER 2563-4069-90

CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

FIRST FLOOR MECHANICAL PIPING PLAN

DRAWING NUMBER M3.1

MECHANICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Mechanical_v24_D6302026_M1FLRPLAN



1 **SECOND FLOOR MECHANICAL PIPING INSTALLATION PLAN**
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO DRAWINGS G1.1 AND M0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. PROVIDE ADDITIONAL TRANSITIONS, ELBOWS, OFFSETS, AND FITTINGS AS REQUIRED.

C. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH THE STRUCTURAL TRADES.

D. COORDINATE ALL WORK WITH OTHER TRADES TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS.

E. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.

F. DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS.

G. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

H. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIAL, ETC. SHALL BE BORNE BY THIS CONTRACTOR.

I. COORDINATE ALL WORK WITH OTHER TRADES.

KEYNOTES

230902 PROVIDE SECURITY COVER ON THERMOSTAT.

230904 PROVIDE TEMPERATURE SENSOR IN THE ROOM AS INDICATED ON THE PLANS. TEMPERATURE SENSOR IN THE ROOM SHALL SENSE THE ROOM TEMPERATURE AND ALLOW FOR ELECTRIC RADIANT HEATING PANEL OPERATION VIA THERMOSTAT SETPOINT. LOCATE THERMOSTAT AWAY FROM ANY HUMIDITY SOURCES. TEMPERATURE SENSOR TO BE RATED FOR HIGH HUMIDITY.

232102 LOCATE VRF CONTROLLER ON THE WALL.

232103 ROUTE CONDENSATE LINE TO NEAREST FLOOR DRAIN.

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PROJECT NUMBER
2563-4069-90

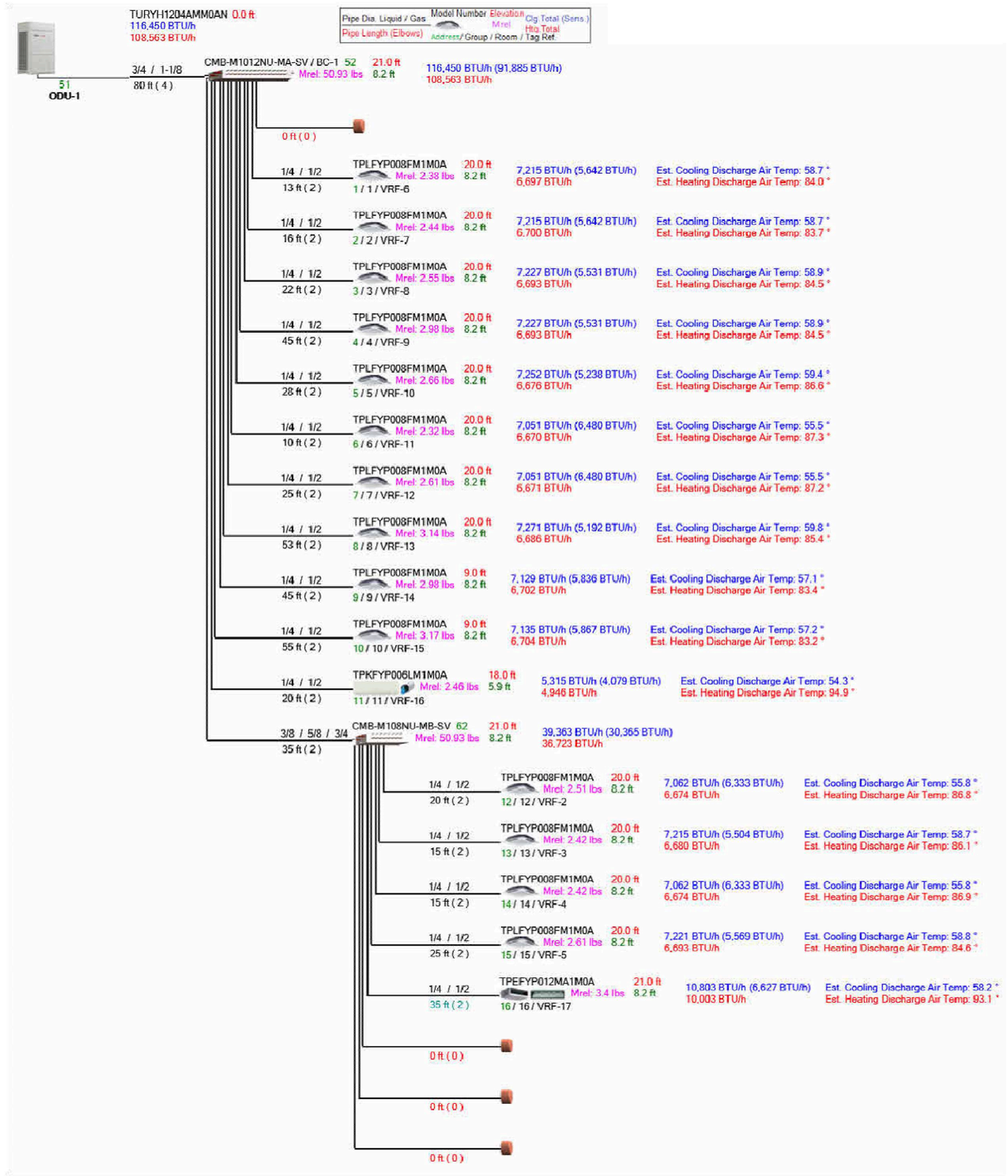
CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

SECOND FLOOR MECHANICAL PIPING PLAN

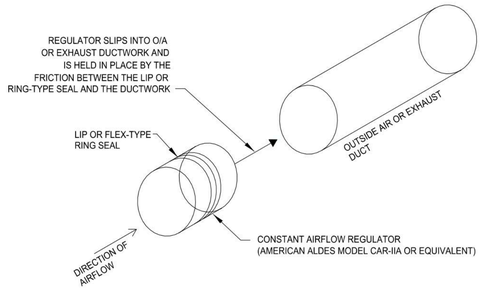
DRAWING NUMBER
M3.2

MECHANICAL

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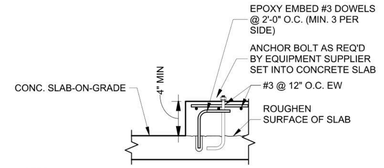
8 VRF PIPING DETAIL
SCALE: N.T.S.



NOTES:

1. CONSTANT AIRFLOW REGULATOR SHALL BE MODULATING ORIFICE THAT AUTOMATICALLY REGULATES AIRFLOW TO A CONSTANT LEVEL WITH A PASSIVE CONTROL ELEMENT THAT RESPONDS TO DUCT PRESSURE AND REQUIRES NO ELECTRIC OR PNEUMATIC CONTROLS OR SENSORS.
2. REGULATOR SHALL BE CONSTRUCTED OF ABS PLASTIC AND SHALL MEET FLAME AND SMOKE SPREAD GUIDELINES.
3. REGULATOR SHALL HAVE A LIP OR FLEX TYPE RING SEAL GASKET AROUND THE CIRCUMFERENCE THAT ENSURES A TIGHT, NO-LEAK FIT IN DUCTWORK.
4. REGULATOR SHALL REGULATE AIRFLOW TO +/-10% OF THE DESIGN AIRFLOW.
5. REGULATOR SHALL BE WARRANTED FOR A PERIOD OF 5 YEARS FROM THE SHIP DATE FOR DEFECTS IN MATERIAL OR WORKMANSHIP.
6. REGULATOR SHALL BE USED IN PLACE OF MANUAL BALANCE DAMPERS FOR AIR VOLUMES 50 CFM OR LESS.

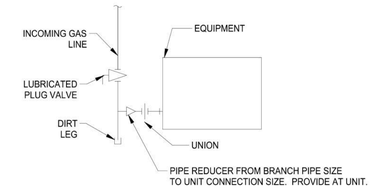
7 CONSTANT VOLUME REGULATOR DETAIL
SCALE: N.T.S.



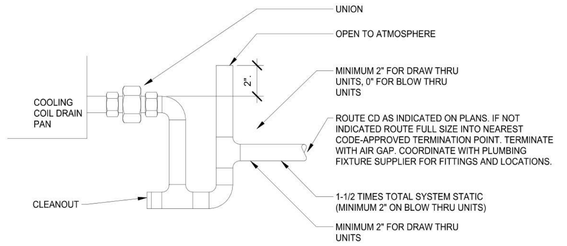
NOTES:

1. COORDINATE LOCATION OF PAD AND SIZE WITH EQUIPMENT MANUFACTURER. REFER TO ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS.
2. PAD TO BE A MINIMUM 6" LARGER THAN EQUIPMENT ON ALL SIDES.
3. IN LIEU OF BENT ANCHOR BOLT SHOWN, PROVIDE EPOXY ANCHOR WITH A MINIMUM EMBEDMENT INTO CONCRETE OF 3".

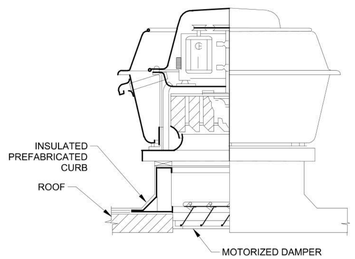
4 INTERIOR CONCRETE HOUSEKEEPING PAD REINFORCING DETAIL
SCALE: N.T.S.



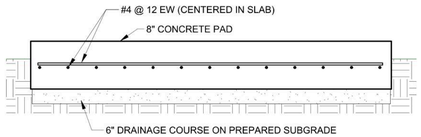
3 GAS EQUIPMENT CONNECTION DETAIL
SCALE: N.T.S.



2 COOLING COIL DRAIN TRAP DETAIL
SCALE: N.T.S.



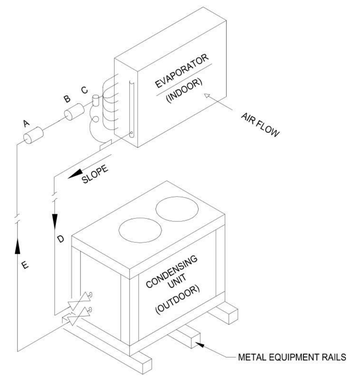
6 EXHAUST FAN DETAIL
SCALE: N.T.S.



NOTES:

1. COORDINATE LOCATION AND SIZE OF EQUIPMENT PAD WITH EQUIPMENT MANUFACTURER, MECHANICAL AND ELECTRICAL PLANS.
2. PAD TO BE A MINIMUM 12" LARGER THAN EQUIPMENT ON ALL SIDES

5 TYPICAL EXTERIOR EQUIPMENT PAD DETAIL
SCALE: N.T.S.



NOTES:

1. ALL PIPING AND PIPING COMPENENTS BY M.C.
2. PITCH ALL HORIZONTAL LINES A MINIMUM OF 1/2" IN 10 FT IN THE DIRECTION OF REFRIGERANT FLOW.
3. INSULATE ALL SUCTION LINES.
4. UNIT MANUFACTURER SHALL PROVIDE REFRIGERANT PIPING SCHEMATIC INCLUDING ALL LINES AND VALVE SIZES AND EXACT LINE ROUTING.

LEGEND:

A. FILTER - DRIER
B. SIGHT GLASS / MOISTURE INDICATOR
C. THERMAL EXPANSION VALVE
D. SUCTION LINE, PITCH TOWARD COMPRESSOR
E. LIQUID LINE

1 CONDENSING UNIT DETAIL
SCALE: N.T.S.

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DLZ Indiana, LLC

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No. 12200004
STATE OF INDIANA
PROFESSIONAL ENGINEER
07/02/2026

NO.	REVISION	DATE

DRAWN: CSH
DESIGNED: CSH
CHK'D: JRA
APPRV'D: SSB
DATE: JUNE 30, 2026
PROJECT NUMBER: 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION

MECHANICAL DETAILS - 1

DRAWING NUMBER
M5.1
MECHANICAL

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ELECTRIC RADIANT HEATING PANEL

TAG		MANUFACTURER	MODEL	SIZE	CAPACITY (W)	VOLTAGE/PH	NOTES
ERHP	1	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	2	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	3	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	4	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	5	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	7	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	8	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	9	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	10	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	11	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	12	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	13	QMARK	CP251F	24x24	250	120/1	1,2,3
ERHP	14	QMARK	CP251F	24x24	250	120/1	1,2,3

NOTES:
1. UNIT SHALL BE PROVIDED WITH RECESSED MOUNTING KIT. TEMPERATURE OF PANEL SHOULD NOT EXCEED 100F.
2. UNIT SHALL BE PROVIDED WITH LINE VOLTAGE THERMOSTAT/DISCONNECT. THERMOSTAT SHALL BE POWERED FROM THE SAME CIRCUIT AS THE RADIANT PANEL.
3. UNIT SHALL BE FACTORY SILICONE SEALED FOR HIGH MOISTURE ENVIRONMENT AND STANDARD FLEX CONDUIT.

VARIABLE REFRIGERANT FLOW SYSTEM INDOOR UNIT SCHEDULE

TAG		MFGR	MODEL	CFM	OA CFM	COOLING DATA				HEATING DATA		VOLTAGE/ PHASE	ELECTRICAL DATA		NOTES
						CAPACITY (MBH)		EAT (F) DB/WB	LAT (F) DB/WB	CAPACITY (MBH)	EAT/LAT (F)		MCA	MOCP	
						TOTAL	SENSIBLE								
VRF	2	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.1	6.3	75.3/64.0	55.8	6.7	66.6/86.8	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	3	MITSUBISHI	TPLFYP008FM1M0A	315	20	2.1	5.5	75.8/66.4	58.7	6.7	65.9/86.1	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	4	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.2	6.3	75.3/664.0	55.8	6.7	66.7/86.9	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	5	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.1	5.6	76.2/66.0	55.8	6.7	64.4/84.6	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	6	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.2	5.6	76.3/65.8	58.8	6.7	63.8/84.0	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	7	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.2	5.6	76.3/65.8	58.7	6.7	63.5/83.7	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	8	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.2	5.5	76.2/66.0	58.9	6.7	64.3/84.5	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	9	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.2	5.5	76.1/66.3	58.9	6.7	64.3/84.5	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	10	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.2	5.2	75.6/66.9	59.4	6.7	66.4/86.6	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	11	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.1	6.5	75.5/63.9	55.5	6.7	66.4/86.6	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	12	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.1	6.5	75.5/64.0	55.5	6.7	67.0/87.2	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	13	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.3	5.2	75.4/66.9	59.8	6.7	65.2/85.4	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	14	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.1	5.8	75.1/67.3	57.1	6.7	63.2/83.4	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	15	MITSUBISHI	TPLFYP008FM1M0A	315	20	7.1	5.9	75.2/67.3	57.2	6.7	63.0/83.2	208/1	0.36	15	1,2,3,4,5,6,7,8,9
VRF	16	MITSUBISHI	TPKFYP004LM1M0A	150	20	5.3	4.1	75.7/67.2	54.3	4.9	70.0/94.9	208/1	0.24	15	1,2,3,4,5,6,7,8,9
VRF	17	MITSUBISHI	TPEFYP006MA1M0A	300	30	10.8	6.6	75.5/66.6	58.2	10.0	67.3/93.1	208/1	1.9	15	1,2,3,4,5,6,7,8,9

NOTES:
1. PROVIDE STARTER/DISCONNECT AS PER DIVISION 26 SPECIFICATIONS.
2. UNIT SHALL OPERATE BASED ON USER DEFINED SCHEDULE (ADJ.).
3. UNIT SHALL BE PROVIDED WITH CONDENSATE PUMP. PROVIDE CHECK VALVE ON CONDENSATE BRANCH TO EACH UNIT TO PREVENT BACKFLOW.
4. MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE VRF SYSTEM INCLUDING CONTROLS FOR VRF INDOOR UNITS, BRANCH CONTROLLERS, CONTROLS, ETC
5. EACH VRF UNIT SHALL BE ACCOMPANIED BY ITS OWN THERMOSTAT. THERMOSTATS SHALL HAVE A DIGITAL DISPLAY WITH AT A MINIMUM INDICATING ROOM TEMPERATURE AND SETPOINT TEMPERATURE.
6. EACH VRF INDOOR UNIT SHALL BE PROVIDED WITH REFRIGERANT DETECTOR AT THE UNIT. REFRIGERANT DETECTOR SHALL BE FACTORY MOUNTED, INSTALLED AND CALIBRATED. FIELD CALIBRATION SHALL NOT BE PERMITTED. MANUFACTURER REFRIGERANT DETECTION SYSTEM SHALL ALLOW FOR AUTOMATIC ISOLATION AND SHUTOFF OF REFRIGERANT LINES TO EACH INDIVIDUAL TERMINAL CASSETTE OR DUCTED UNIT VIA CONTROLS AT THE BRANCH CONTROLLER. EACH TERMINAL UNIT AND BRANCH CONTROLLER SHALL HAVE A BUILT IN REFRIGERANT DETECTION. THE SYSTEM SHALL MONITOR THE REFRIGERANT LEAKAGE CONTINUOUSLY.
7. VRF SYSTEM AND REFRIGERANT PIPING LAYOUT IS SCHEMATIC IN NATURE AND IS TO BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER PROVIDING THE VRF SYSTEM BASED ON THE MANUFACTURER REQUIREMENTS. PROVIDE ADDITIONAL REFRIGERANT CHARGE AS NEEDED.
8. PROVIDE OVERFLOW DETECTION FOR CONDENSATE LINES LOCATED OVER INACCESSIBLE CEILING.
9. REFER TO SHEET M5.1 FOR ADDITIONAL INFORMATION.
10. EACH INDOOR CIRCUIT SHALL HAVE MITIGATION CONTROLS COMPLYING TO ASHRAE 15.

CEILING FAN SCHEDULE

TAG		MANUFACTURER	MODEL	MOUNTING HEIGHT (A.F.F.)	ELECTRICAL DATA			NOTES
					VOLTAGE	PHASE	AMPS	
CF	1	CANARM	CP48D10N	8'-0"	120	1	0.6	1,2,3
CF	2	CANARM	CP48D10N	8'-0"	120	1	0.6	1,2,3
CF	3	CANARM	CP48D10N	8'-0"	120	1	0.6	1,2,3
CF	4	CANARM	CP48D10N	8'-0"	120	1	0.6	1,2,3

NOTES:
1. PROVIDE CANARM RREM--DCQ014-W CONTROLLER TO CONTROL FANS IN THE SPACE. A SINGLE CONTROLLER SHALL CONTROL BOTH THE FANS. LOCATE NEW CONTROLLER IN PLACE OF EXISTING CONTROLLER.
2. COORDINATE COLOR FROM STANDARD COLOR RANGE WITH ARCHITECTURE.
3. PROVIDE 16" DOWNROD.

AIR COOLED CONDENSING UNIT SCHEDULE

TAG		MANUFACTURER	MODEL	EQUIPMENT SERVED	COOLING (MBH)	HEATHING (MBH)	DESIGN AMBIENT TEMP. (°F)	SEER	REF. TYPE	ELECTRICAL DATA					WEIGHT (LBS)	NOTES
										VOLTAGE	PHASE	FREQUENCY (HZ)	MCA	MOCP		
ACC	1	MITSUBISHI	TURYH1204AMM0AN	VRF-2 THRU VRF-17	116.5	108.6	95	13.55	R-32	460	3	60	31	50	739	1,2,3,4,5,6,7
ACC	2	MITSUBISHI	MXZ-SM48NLHZ	DS-1	45.5	50.2	95	11.9	R-454B	208	1	60	45	80	283	1,2,3,4,5,6,7

NOTES:
1. PROVIDE STARTER/DISCONNECT AS PER DIVISION 26 SPECIFICATIONS.
2. PROVIDE CRANKCASE HEATER, LOW AMBIENT KIT, WINTER START KIT, HAIL GUARD AND WIND BAFFLE.
3. SIZE AND INSTALL REFERIGERANT LINES AS PER MFGR RECOMMENDATIONS..
4. INCLUDE HIGH PRESSURE SWITCH, FAN DRIVER OVERLOAD PROTECTOR, OVERCURRENT FUSE, INVERTER OVERLOAD PROTECTOR AND LEAK DETECTING DEVICE. REFER TO PIPING DIAGRAMS FOR MORE INFORMATION.
5. PROVIDE AUTOMATIC SAFETY SHUTOFF VALVES AT SUCTION INLET AND DISCHARGE OUTLET OF EACH CONDENSING UNIT IN THE MODULE. CONTROLS SHALL BE PROVIDED TO ACTIVATE THE VALVES WHEN REFRIGERANT IS DETECTED AT INDOOR UNIT SERVED BY THE CONDENSING UNIT.
6. REFER TO SHEET M5.1 FOR ADDITIONAL INFORMATION.
7. COOLING CAPACITY INDICATED IS BASED ON OA TEMPERATURE OF 102 F AND HEATING CAPACITY INDICATED IS BASED ON OA TEMPERATURE OF -2.6 F.

BRANCH CONTROLLER SCHEDULE

TAG		MANUFACTURER	MODEL	NUMBER OF BRANCHES	ELECTRICAL DATA			NOTES
					VOLT/PH	MCA	MOCP	
BC	1	MITSUBISHI	CMB-M1012NU-MA-SV	12	208/1	0.13	15	-
BC	2	MITSUBISHI	CMB-M108NU-MB-SV	8	208/1	0.08	15	-

DUCTLESS SPLIT INDOOR UNIT SCHEDULE

TAG		MANUFACTURER	MODEL	AIRFLOW (CFM)	RATED COOLING CAPACITY (MBH)	RATED HEATING CAPACITY (MBH)	ELECTRICAL DATA				WEIGHT (LBS)	NOTES
							VOLTAGE	PHASE	MCA	MOCP		
DS	1	MITSUBISHI	PEFYL48NMAU-A	1300	45.4	32.6	208	1	3.4	15	86	1,2,3,4

NOTES:
1. PROVIDE THERMOSTAT WITH DUCTLESS SPLIT.
2. REFER TO DETAIL 6/M5.1 FOR ADDITIONAL INFORMATION.
3. PROVIDE CONDENSATE PUMP.
4. INDOOR UNIT POWERED BY OUTDOOR UNIT.

ROOF HOOD SCHEDULE

TAG		MANUFACTURER	MODEL	ROOF OPENING DIMENSIONS (IN)		AIRFLOW (CFM)	VELOCITY (FPM)	NOTES
				LENGTH	WIDTH			
RH	1	GREENHECK	FGR-18X18	20.5	20.5	1450	644	1,2

NOTES:
1. PROVIDE BIRD SCREEN.
2. UNIT IS A RELIEF HOOD.

ENERGY RECOVERY VENTILATOR UNIT SCHEDULE

TAG		MANUFACTURER	MODEL	TYPE	AIR FLOW		ENTHALPY COOLING %	ENTHALPY HEATING %	SUPPLY FAN		RETURN FAN		ELECTRICAL DATA			DIMENSIONS (IN)			WEIGHT (LBS.)	NOTES
					CFM	ESP			MOTOR (W)	ESP (IN WG)	MOTOR (W)	ESP (IN WG)	VOLT / PH.	MCA	MOCP	HEIGHT	WIDTH	DEPTH		
ERV	1	RENEWAIRE	HE20-JINH	STATIC PLATE	1400	1"	52.7	69.8	2150	1	2150	1	208/3	12.8	15	56	48	42	546	1,2,3,4,5

NOTES:
1. PROVIDE ECM DISCONNECT AS PER DIVISION 26 SPECIFICATIONS. REFER TO PANELBOARD SCHEDULE ON ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS.
2. PROVIDE 2" MERV 13 FILTERS.
3. PROVIDE WALL MOUNTED FAN CONTROL IN MECHANICAL ROOM. UNIT SHALL OPERATE BASED ON USER DEFINED SCHEDULE (ADJ.).
4. INCLUDE PROGRAMMABLE CONTROLS WITH THE UNIT.
5. INCLUDE FACTORY MOUNTED FILTER ALARMS. ALARMS SHALL HAVE A LOCAL AUDIBLE AND VISUAL SIGNAL.

EXHAUST FAN SCHEDULE

TAG		MANUFACTURER	MODEL	DRIVE TYPE	AIRFLOW (CFM)	EXTERNAL SP (IN WG)	MOTOR (RPM)	MOTOR (HP)	ELECTRICAL DATA			WEIGHT (LBS)	NOTES
									VOLTAGE	PHASE	MOCP		
EF	1	GREENHECK	G-097-VG	DIRECT	140	0.5	1220	1/4	120	1	15	54	1,2
EF	2	GREENHECK	G-070-VG	DIRECT	230	0.4	1692	1/15	120	1	15	36	1,2

NOTES:
1. PROVIDE STARTER/DISCONNECT AS PER DIVISION 26 SPECIFICATIONS.
2. UNIT SHALL OPERATE BASED ON USER DEFINED SCHEDULE (ADJ.).

ELECTRIC DUCT HEATER SCHEDULE

TAG		MANUFACTURER	MODEL	EQUIPMENT SERVED	CFM	HEATING OUTPUT (KW)	HEATER CONTROL	SIZE	VOLT / PH.	MOCP	NOTES
EDH	1	GREENHECK	IDHE	DS-1	1070	20	SCR	16X12	480/3	35	1,2,3,4,5

NOTES:
1. PROVIDE STARTER/DISCONNECT AS PER DIVISION 26 SPECIFICATIONS. REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULES ON ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. UNIT SHALL TURN ON WHEN OA TEMPERATURE FALLS BELOW 50 F (ADJ.). REFER TO 4/M7.1 FOR ADDITIONAL INFORMATION. SCR CONTROL SHALL MAINTAIN A DISCHARGE TEMPERATURE OF 100 F (ADJ.). REFER TO DRAWINGS FOR THERMOSTAT LOCATION.
3. UNIT SHALL BE UL CERTIFIED. INCLUDE HINGED CONTROL CABINET COVER, AUTOMATIC THERMAL SAFETY SWITCH FOR PRIMARY OVER TEMPERATURE PROTECTION.
4. HEATER SHALL BE SLIP IN TYPE. CONTROL VOLTAGE FOR THE UNIT SHALL BE 24V.
5. INCLUDE AIRFLOW SWITCH WITH THE UNIT. INCLUDE PILOT LIGHTS TO INDICATE HEATER OPERATION. LIGHTS SHALL BE RATED TO 24V.

MECHANCAL VIBRATION ISOLATION SCHEDULE

EQUIPMENT NAME	LOCATION	ELEVATION FROM GRADE	BASE TYPE	ISOLATOR TYPE	MIN STATIC DEFLECTION (IN)
CONDENSING UNITS	OUTDOORS	0'-4"	A	1	0.25
CEILING FANS	VARIES	8'-0"	A	1	0.25
DUCTLESS SPLIT UNITS	VARIES	VARIES	A	3	0.75
EXHAUST FANS	ROOF	29'-9"	B	3	0.75
ENERGY RECOVERY VENITILATORS	MECHANICAL ROOM	12'-4"	A	3	0.75
VRF INDOOR UNITS	VARIES	VARIES	A	3	0.75

NOTES:

BASE TYPES:
A = DIRECT ISOLATION
B = STRUCTURAL STEEL RAILS OR BASE
C = CONCRETE INERTIA BASE
D = CURB-MOUNTED BASE

ISOLATOR TYPES:
TYPE - 1 = FIBERGLASS OR NEOPRENE PAD
TYPE - 2 = FLOOR ISOLATOR OR HANGER
TYPE - 3 = SPRING FLOOR ISOLATOR OR HANGER
TYPE - 4 = RESTRAINED SPRING ISOLATOR

AIR TERMINAL SCHEDULE

TAG	MANUFACTURER	MODEL	CFM RANGE	PANEL SIZE	NECK SIZE	STYLE	INSTALLATION	FINISH	PRESSURE (IN.)	NC	THROW	NOTES
EA-1	PRICE	80 SERIES	0-1800	24X24	-	EGGCRATE GRILLE	CEILING	WHITE POWDER COAT/PREPARED ALUMINUM	0.166	32	-	1,2
EA-2	PRICE	80 SERIES	0-450	12X12	-	EGGCRATE GRILLE	CEILING	WHITE POWDER COAT/PREPARED ALUMINUM	0.166	27	-	1,2
RA-1	PRICE	80 SERIES	0-1800	24X24	-	EGGCRATE GRILLE	CEILING	WHITE POWDER COAT	0.166	32	-	
RA-2	PRICE	80 SERIES	0-900	12X24	-	EGGCRATE GRILLE	CEILING	WHITE POWDER COAT	0.166	30	-	
SA-1	PRICE	SPD	0-545	24X24	10	SQUARE PLAQUE DIFFUSER	CEILING	WHITE POWDER COAT	0.18	30	8	
SA-2	PRICE	SPD	0-250	12X12	8	SQUARE PLAQUE DIFFUSER	CEILING	WHITE POWDER COAT	0.031	22	7	

NOTES:
1. PROVIDE PREPARED ALUMINUM FINISH ON GRILLES IN HIGH HUMIDITY AREAS AS INDICATED ON FLOOR PLANS.
2. REFER TO FLOOR PLANS FOR GRILLES REQUIRING FRONT OPERATED DAMPER.

DLZ Indiana, LLC
Connect. Build. Thrive.
SIDDHARTH S. BHAT
REGISTERED
No. 12200004
STATE OF
INDIANA
PROFESSIONAL ENGINEER
07/02/2026

DATE
REVISION
NO.

DRAWN: CSH | CHK'D: JRA
DESIGNED: CSH
APPRV'D: SSB
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATON NO. 45 RENOVATION
CARMEL
MECHANICAL EQUIPMENT SCHEDULES - I

DRAWING NUMBER M6.1
MECHANICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Mechanical.rvt
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ELECTRICAL SYMBOLS:

USB GFCI TV +48"	DUPLEX RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F., U.O.N. USB = 125V, 20A, USB CHARGING DUPLEX RECEPTACLE. GFCI = GROUND FAULT CIRCUIT INTERRUPTING TYPE DEVICE. TV = COORDINATE EXACT HEIGHT AND LOCATION WITH TV AND MOUNTING HARWARE. +48" = INSTALL DEVICE WITH TOP AT +48" AFF. U.O.N., COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
WP	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F. U.O.N WP = WEATHERPROOF "WHILE IN USE" ENCLOSURE.
	GROUND FAULT CIRCUIT INTERRUPTING QUAD RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F. U.O.N. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
	DUPLEX RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH TOP AT +40" A.F.F., U.O.N.
	DUPLEX RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16", A.F.F., U.O.N. RECEPTACLE TO BE COLOR "ORANGE".
	DUPLEX RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, 125V, 20A. INSTALL DEVICE WITH TOP AT +40" A.F.F., U.O.N. RECEPTACLE TO BE COLOR "ORANGE".
	DUPLEX RECEPTACLE CEILING MOUNTED 125V, 20A. REFER TO SPECIFICATIONS AND DRAWINGS FOR FURTHER DETAILS.
	DUPLEX RECEPTACLE CEILING MOUNTED ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT 125V, 20A. REFER TO SPECIFICATIONS AND DRAWINGS FOR FURTHER DETAILS. RECEPTACLE TO BE COLOR "ORANGE".
	DUPLEX RECEPTACLE FLOOR BOX 125V, 20A. REFER TO SPECIFICATIONS AND DRAWINGS FOR DETAILED ELECTRICAL REQUIREMENTS.
	QUAD RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F., U.O.N.
	QUAD RECEPTACLE, 125V, 20A. INSTALL DEVICE WITH TOP AT +40" A.F.F., U.O.N.
	QUAD RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, 125V, 20A. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F., U.O.N. RECEPTACLE TO BE COLOR "ORANGE".
	QUAD RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, 125V, 20A. INSTALL DEVICE WITH TOP AT +40" A.F.F., U.O.N. RECEPTACLE TO BE COLOR "ORANGE".
	SPECIAL RECEPTACLE, REFER TO MANUFACTURER REQUIREMENTS. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F., U.O.N.
	SPECIAL RECEPTACLE ON UNINTERRUPTIBLE POWER SUPPLY CIRCUIT, REFER TO MANUFACTURER REQUIREMENTS. INSTALL DEVICE WITH BOTTOM AT +16" A.F.F., U.O.N. RECEPTACLE TO BE COLOR "ORANGE".
J J J	JUNCTION BOX.
R	RELAY.
a $VSD	DIMMABLE SWITCH, 120/277V, 1-POLE, 20A. VSD=VACANCY SENSOR WITH MANUAL ON/AUTOMATIC OFF, "a" INDICATES SWITCH LEG.
a $WP	TOGGLE SWITCH, 120/277V, 1-POLE, 20A. WP=WEATHERPROOF ENCLOSURE, "a" INDICATES SWITCH LEG.
$3a	TOGGLE SWITCH, THREE WAY TYPE, 120/277V, 20A, "a" INDICATES SWITCH LEG.
$4a	TOGGLE SWITCH, FOUR WAY TYPE, 120/277V, 20A, "a" INDICATES SWITCH LEG.
$Da	DIMMABLE SWITCH, 120/277V, 20A, "a" INDICATES SWITCH LEG.
a OC OR OC a WG WG	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING OR WALL MOUNT COVERAGE OF SENSOR DEPENDENT ON ROOM SIZE, "a" INDICATES SWITCH LEG, "WG" INDICATES WIRE GUARD INCLUDED. POWER PACKS NOT SHOWN - FIELD LOCATE AND RECORD ON RECORD DRAWINGS.
a OC	PIR HIGH BAY OCCUPANCY SENSOR. PROVIDE POWER PACK(S) AS REQUIRED PER MANUFACTURER'S RECOMMENDATION, "a" INDICATES SWITCH LEG.
J C W	4" SQUARE BOX WITH SINGLE GANG ADAPTER FOR MOUNTING EMERGENCY POWER CONTROL MODULE. MOUNT WHERE INDICATED ON PLANS. PROVIDE PERMANENT LABEL ON MODULE FACEPLATE INDICATING ROOM/AREA(S) WHERE CONTROLLED LIGHTS ARE LOCATED. "C" INDICATES DEVICE FLUSH MOUNTED IN CEILING, "W" INDICATES DEVICE FLUSH MOUNTED IN WALL. COORDINATE EXACT LOCAITON WITH OWNER BEFORE ROUGH-IN.
	DISTRIBUTION PANELBOARD, SEE SCHEDULE FOR DETAILED REQUIREMENTS.
	PANELBOARD, SEE SCHEDULE FOR DETAILED REQUIREMENTS.
$M	MOTOR RATED DISCONNECT SWITCH, 125V OR 250V, 20A TO MATCH CIRCUIT CHARACTERISTICS, UON.
	NON-FUSED DISCONNECT SWITCH, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	FUSED DISCONNECT SWITCH, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	NON-COMBINATION STARTER, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	COMBINATION STARTER/DISCONNECT, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	VARIABLE FREQUENCY DRIVE, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
	VARIABLE FREQUENCY DRIVE AND DISCONNECT COMBINATION, SEE DRAWINGS FOR DETAILED REQUIREMENTS.
3	NON-COMBINATION MAGNETIC MOTOR STARTER NUMBER INDICATES NEMA RATING, SIZE 1 U.O.N.
	MOTOR.
P	PULLBOX
H	ADDRESSABLE FIRE ALARM HEAT DETECTOR. CEILING MOUNT.
S P	ADDRESSABLE FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT.
S P	ADDRESSABLE FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR. WALL MOUNT ON RECESSED DEVICE BOX.
S D	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR, HOUSING , AND SAMPLING TUBE ON RETURN SIDE. INTERLOCK WITH DAMPER/FAN MOTOR CONTROL TO SHUTDOWN UNIT UPON DETECTION. PROVIDE AND WIRE AN ILLUMINATED REMOTE TEST SWTICH INTERLOCKED TO THE EQUIPMENT; LOCATION SHALL BE READILY ACCESSIBLE TO FIREMAN FOR SMOKE MANAGEMENT CONTROL.
RTS	ILLUMINATED REMOTE TEST SWITCH INTERLOCKED TO SHUTDOWN AIR HANDLING EQUIPMENT. AS "SIMULATED TEST" OF DUCT SMOKE DETECTOR ACTIVATION AND AHU SHUTDOWN BY IAM INTERLOCK. LOCATION SHALL BE READILY ACCESSIBLE FOR FIREMEN FOR SMOKE MANAGEMENT CONTROL.
F WP	FIRE ALARM HORN WITH VISUAL STROBE. WP = WEATHERPROOF STYLE DEVICE.
F S	FIRE ALARM VISUAL STROBE ANNUNCIATOR.
F	FIRE ALARM MANUAL PULL STATION.
F LF	FIRE ALARM LOW-FREQUENCY SOUNDER WITH VISUAL STROBE.
FAAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL.
FACP	FIRE ALARM CONTROL PANEL.
BF	FIRE ALARM MONITOR POINT, BACKFLOW PREVENTOR/PRESSURE INDICATING SWITCH.
TS	FIRE ALARM MONITOR POINT, TAMPER SWITCH.
FS	FIRE ALARM MONITOR POINT, FLOW SWITCH.
IAM	FIRE ALARM INTERMEDATE ADDRESSABLE MODULE.
GAA	GENERATOR ALARM ANNUNCIATOR PANEL.
	OVERHEAD DOOR SAFETY INTERLOCKS. REFER TO SPECIFICATION 083613 FOR MORE INFORMATION.
	LOCAL KEYED OPEN-STOP-CLOSE OVERHEAD DOOR CONTROL STATION. REFER TO SPECIFICATION 083613 FOR MORE INFORMATION.
	2'-0" GROUND BUS BAR.
CR	KEYPAD/CARD-READER, CONNECT TO ACCESS CONTROLS SYSTEM
A	WALL MOUNTED ALERTING SYSTEM COMPONENT ROUGH-IN. MOUNT AT +48" AFF., U.O.N.
A	CEILING MOUNTED ALERTING SYSTEM COMPONENT ROUGH-IN.
VC	VOLUME CONTROL KNOB. MOUNT AT +48" AFF.
	CONDUIT CONCEALED IN GROUND OR FLOOR.
	CONDUIT TURN UP AND TURN DOWN RESPECTIVELY.
A L1# a	LIGHT FIXTURE. "A" INDICATES FIXTURE TYPE. "a" INDICATES SWITCH LEG. "L1#" INDICATES CIRUIT NUMBER FIXTURE IS CONNECTED TO. REFER TO LIGHT FIXTURES SCHEDULE ON DRAWING E6.1.
A L1# a	LIGHT FIXTURES WITH HALF SOLID SHADING INDICATES FIXTURE IS USED FOR EMERGENCY EGRESS LIGHTING. "A" INDICATES FIXTURE TYPE EM = FIXTURE SUPPLIED WITH EMERGENCY POWER CONTROL MODULE, CONTROLLED. REFER TO LIGHT FIXTURE SCHEDULE ON DRAWING E6.1.
S	CEILING MOUNTED PUBLIC ADDRESS SPEAKER, TIED TO TELEPHONE PAGING SYSTEM
S W	WALL MOUNTED PUBLIC ADDRESS SPEAKER, TIED TO TELEPHONE PAGING SYSTEM
PC	PHOTOCELL
WAP	WIRELESS ACCESS POINT (WAP). PROVIDE TWO (2) CAT 6 CABLES.
	BRANCH CIRCUIT HOME-RUN SYMBOLOGY: SEMI CIRCLE INDICATES GROUND CONDUCTOR LONG LINE INDICATES NEUTRAL CONDUCTOR(S) SHORT LINE INDICATES PHASE CONDUCTOR(S)

SITE ELECTRICAL SYMBOLS:

BHV	DIRECT BURIED CONDUIT FOR HIGH VOLTAGE CABLE (CABLE BY ELECTRIC UTILITY)
BC	DIRECT BURIED CONDUIT FOR COMMUNICATIONS CABLES
BE	DIRECT BURIED CONDUIT FOR ELECTRICAL POWER CABLES
BFO	DIRECT BURIED CONDUIT FOR SECURITY FIBER OPTIC CABLES
G	DIRECT BURIED BARE COPPER GROUNDING ELECTRODE CABLE
	ELECTRICAL HANDHOLE 'HH-EX' INDICATES ELECTRICAL HANDHOLE #X 'HH-CX' INDICATES COMMUNICATION HANDHOLE #X
	3/4" DIAMETER X 10'-0" COPPER CLAD GROUNDING ELECTRODE GROUNDING ROD WITH EXOTHERMIC WELD CABLE CONNECTION

ONE-LINE DIAGRAM SYMBOLS:

PANEL 200 AMP 120/208V 3Ø, 4W MLO	MAIN LUG ONLY PANELBOARD. "PANEL" INDICATES PANEL DESIGNATION. "120/208" INDICATES PANEL OPERATING VOLTAGE. "3Ø, 4W" INDICATES PHASE AND WIRE. "200A 3P" INDICATES 3 POLE MAIN LUGS AND BUS RATED FOR 200A.
PANEL 200 AMP 120/208V 3Ø, 4W MCB	MAIN CIRCUIT BREAKER PANELBOARD. "PANEL" INDICATES PANEL DESIGNATION. "120/208" INDICATES PANEL OPERATING VOLTAGE. "3Ø, 4W" INDICATES PHASE AND WIRE. "200A 3P" INDICATES 3 POLE MAIN LUGS AND BUS RATED FOR 200A.
200 200	FUSED SWITCH. TOP NUMBER INDICATES SWITCH RATING IN AMPERES. BOTTOM NUMBER INDICATES FUSE RATING IN AMPERES.
200AT 200AF 80% RATED LSIG SS	THERMAL MAGNETIC CIRCUIT BREAKER. TOP NUMBER INDICATES TRIP RATING IN AMPERES. BOTTOM NUMBER INDICATES FRAME RATING IN AMPERES. "80% RATED" INDICATES BREAKER RATING. "LSIG" INDICATES BREAKER WITH ADJUSTABLE LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT TRIP SETTINGS. "SS" INDICATES SOLID STATE, 3-POLE, U.O.N.
	BUS BAR.
	FEEDER CIRCUIT.
20	MOTOR WITH HORSEPOWER INDICATED.
208V 30KVA 208/120 K13	TRANSFORMER. PRIMARY VOLTAGE, SECONDARY VOLTAGE, RATING IN KVA AS INDICATED. K FACTOR AS INDICATED.
	GROUND.
100A	NON-FUSED DISCONNECT SWITCH. NUMBER INDICATES RATING IN AMPERES.
	ENCLOSURE OUTLINE.
100	CABLE/CONDUIT NUMBER.
N E L	AUTOMATIC TRANSFER SWITCH
SB	SWITCHBOARD

ABBREVIATIONS:

A.F	AMPERE FUSE
A.F.C.	ABOVE FINISHED COUNTER
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
BE	BURIED ELECTRIC
B.F.G.	BELOW FINISH GRADE
BFO	BURIED FIBER OPTIC
BT	BURIED TELEPHONE
C.	CONDUIT
CAT	CATEGORY
DED.	DEDICATED
DFA	DROP FROM ABOVE
DIV.	DIVISION
D.S	DISCONNECT SWITCH
E.T.R.	EXISTING TO REMAIN
E	EXISTING
EC	ELECTRICAL CONTRACTOR
(F)	FUTURE
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
G.	GROUND
GFI	GROUND FAULT INTERRUPT
GRND	GROUND
H.O.A.	HAND OFF AUTOMATIC
H.L.O.A.	HIGH LOW OFF AUTOMATIC
HNDLR	HANDLER
IDF	INTERMEDIATE DISTRIBUTION FRAME
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
LTG.	LIGHTING
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFR.	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTS.	MANUAL TRANSFER SWITCH
MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
NEC	NATIONAL ELECTRICAL CODE
NL	NON-SWITCHED NIGHT LIGHT
NTRL.	NEUTRAL
NTS	NOT TO SCALE
OCP	OVERCURRENT PROTECTIVE DEVICE
OL.	OVERLOADS
P	POLE
POTS	PLAIN OLD TELEPHONE SYSTEM
Ø	PHASE
RCPT.	RECEPTACLE
RECEPT.	RECEPTACLE
RM.	ROOM
SE	SERVICE ENTRANCE
SP.	SPARE
SPEC	SPECIFICATIONS
SS	SOLID STATE (ELECTRONIC) BREAKER
SSOL	SOLID STATE OVERLOADS
ST	SAFETY TYPE
SW.	SWITCH
T.B.I.	TO BE INSTALLED
TBR	TO BE REMOVED
TWSH.	TWISTED SHIELDED
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.F.D.	VARIABLE FREQUENCY DRIVE
W	WATT
WG	WIRE GUARD
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF

GENERAL NOTES:

A. DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. ALL LOCATIONS SHALL BE FIELD VERIFIED.

B. ALL WORK SHALL BE IN CONFORMANCE WITH THE INDIANA ELECTRICAL CODE LATEST EDITION ADOPTED BY INDIANA, THE INDIANA ELECTRICAL CODE AMENDMENTS, LOCAL/MUNICIPAL CODES, AND THE AUTHORITY HAVING JURISDICTION.

C. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, NOT LESS THAN 12" IN LENGTH, NOR GREATER THAN 36" IN LENGTH.

D. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED WITH THE APPROPRIATE FIRE STOPPING MATERIAL TO MAINTAIN WALL FIRE RATING. SEE ARCHITECTURAL DRAWING #A-051 FOR FIRE RATED WALL LOCATIONS.

E. SEE MECHANICAL AND PLUMBING SCHEDULES FOR MECHANICAL EQUIPMENT RATINGS AND SIZES.

F. ALL POWER AND LIGHTING CIRCUITS SHALL BE MINIMUM (2)#12, AND (1) #12 G, IN 3/4" CONDUIT UNLESS OTHERWISE NOTED. ALL BRANCH CIRCUIT WITH 20A AND BELOW BREAKER(S) SHALL USE THE FOLLOWING MINIMUM CABLE SIZE TO ACCOMMODATE VOLTAGE DROP UNLESS OTHER WISE NOTED: LESS THAN 85'-0": #12 AWG; 85'-0" TO 140'-0": #10 AWG; 140'-0" TO 225'-0": #8 AWG.

G. ALL CONTROL WIRING SHALL BE NOT LESS THAN (2) #14, (1) #14G, 3/4"C, UON.

H. ALL CABLES INSTALLED IN AIR HANDLING PLENUMS SHALL BE PLENUM RATED CABLE.

I. HOME RUNS SHALL NOT BE COMBINED IN A RACEWAY UNLESS SHOWN ON THE CONTRACT DRAWINGS. SINGLE PHASE BRANCH CIRCUIT HOME RUNS MAY BE COMBINED AT THE CONTRACTOR'S DISCRETION NOT GREATER THAN (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, AND REQUIRED GROUNDING CONDUCTOR(S). CONTRACTOR MUST INCREASE WIRE SIZE AND DERATE CONDUCTOR CAPACITY ACCORDING TO NEC.

J. EACH SINGLE PHASE BRANCH CIRCUIT CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL BACK TO THE PANELBOARD.

K. SUPPORTING WIRE FOR THE SUSPENDED CEILING GRID SHALL NOT BE USED AS RACEWAY SUPPORT.

L. DISCONNECT SWITCH RATINGS SHALL BE AS INDICATED ON THE DRAWINGS.

M. MAJOR FEEDERS FROM THE SWITCHBOARD TO PANELBOARDS, TRANSFORMERS, MOTORS AND OTHER LARGE EQUIPMENT ARE NOT SHOWN ON THE FLOOR PLAN DRAWINGS. THESE FEEDERS ARE INCLUDED WITHIN THE SCOPE OF THE ELECTRICAL WORK AND ARE SHOWN ON THE ONE-LINE DIAGRAMS.

N. ALL FIRE ALARM CABLING SHALL BE RED, PLENUM RATED, AND INSTALLED IN FACTORY PAINTED "RED" CONDUIT. ALL ASSOCIATED JUNCTION/PULL BOXES SHALL BE FACTORY PAINTED "RED".

O. HVAC CONTROL WIRING FURNISHED AND INSTALLED BY OTHERS. PROVIDE POWER TO EACH TEMPERATURE CONTROL PANEL AS SHOWN.

P. INDOOR CONTROL EQUIPMENT ENCLOSURES SHALL BE NEMA 1 RATED U.O.N. ALL EXTERIOR ENCLOSURES SHALL BE NEMA 3R UNLESS OTHERWISE NOTED. ALL ENCLOSURES LOCATED IN KITCHEN SHALL BE NEMA 4X STAINLESS STEEL UNLESS OTHERWISE NOTED.

Q. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH EXPANSION FITTINGS, UNLESS THE CONDUIT IS BELOW SLAB IN THE COMPACTED GRANULAR FILL. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. REFER TO STRUCTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.

R. THE CONTRACTOR SHALL COORDINATE RECEPTACLE HEIGHTS AND LOCATIONS WITH THE CASEWORK SHOP DRAWINGS TO DETERMINE EXACT LOCATIONS AND HEIGHTS FOR OUTLET INSTALLATION.

S. CONTROL WIRING FOR HVAC EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. PROVIDE POWER AS INDICATED ON PLANS.

T. TO REDUCE NOISE BETWEEN WALLS, CONTRACTOR SHALL AVOID INSTALLING POWER RECEPTACLES OR DATA OUTLETS LOCATED BACK TO BACK. AS WELL AS WHERE OUTLETS ARE REQUIRED TO BE LOCATED BACK TO BACK CONTRACTOR SHALL PROVIDE SOUNDPROOFING MATERIAL BETWEEN JUNCTION BOXES.

U. THE WORD "PROVIDE" IS TO BE DEFINED AS "FURNISH AND INSTALL."

DLZ
Connect. Build. Thrive.
DLZ Indiana, LLC

MICHAEL S. KRIZMAN, JR. REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA No. 12300530 07/2026

NO.	REVISION	DATE

DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/EGF
APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

INDIANA
CARMEL
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION
GENERAL INFORMATION

DRAWING NUMBER E0.1 ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Station_Electrical.rvt
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1 **FIRST FLOOR POWER REMOVAL PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. BOLD AND DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (E.G. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC.) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.O.N.

C. SHADED LINES INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN.

D. ALL EXISTING LIGHTING, POWER, SYSTEMS DEVICES / EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.

E. NOT ALL KEYNOTES ARE USED ON EVERY SHEET.

F. REMOVE EXISTING SYSTEMS, MATERIALS, AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.

   a. REINSTALL ANY SUCH SYSTEMS, MATERIALS, AND EQUIPMENT WHICH ARE REQUIRED TO COMPLETE THE PROJECT.

G. WHERE EXISTING EQUIPMENT OR MATERIALS ARE REMOVED OR CHANGED, ALL BRANCH CONDUITS, WHICH NO LONGER ARE IN SERVICE, SHALL BE REMOVED AS DIRECTED BY THE ARCHITECT. IF, IN THE COURSE OF THE WORK, OUTLETS ARE COVERED UP OR OTHERWISE RENDERED INACCESSIBLE, ALL WIRING TO SAME SHALL BE REMOVED TO THE SOURCE. IF A CIRCUIT THAT MUST REMAIN IN SERVICE IS INTERRUPTED, IT SHALL BE RECONNECTED BY THE MOST INCONSPICUOUS MEANS SO AS TO REMAIN OPERATIONAL, WITH SAME CAPACITY AS BEFORE. ALL BUILDING SURFACES DAMAGED, AND OPENING LEFT BY REMOVAL OF BOXES, PIPING, OR THEIR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. ALL HOLES LEFT IN JUNCTION BOXES, SWITCHES, PANELS, ETC. SHALL BE CLOSED.

H. WHERE NEW OPENINGS ARE CUT AND CONCEALED CONDUITS, ETC. ARE ENCOUNTERED, THEY SHALL BE REMOVED OR RELOCATED AS REQUIRED. CONDUIT SHALL BE REMOVED TO THE POINT WHERE THE FINISH SURFACES CAN BE PATCHED ADEQUATELY SO THAT NO EVIDENCE OF THE FORMER INSTALLATION REMAINS.

I. REFER TO ARCHITECTURAL DRAWINGS WHICH SHOW THE TOTAL DEMOLITION IN SPECIFIC AREAS. E.C. SHALL COORDINATE IN THIS DEMOLITION TO ENSURE THAT POWER IS OFF AND THAT ELECTRICAL EQUIPMENT THAT MUST REMAIN IS PROPERLY PROTECTED.

J. ALL REUSABLE DEVICES, FIXTURES, AND EQUIPMENT SHALL BE SALVAGED, SHALL BECOME THE PROPERTY OF THE OWNER, AND SHALL BE STORED BY THE CONTRACTOR IN A ROOM TO BE DESIGNATED BY THE OWNER. ALL OTHER REMOVED ITEMS AND DEBRIS SHALL BE CLEARED FROM THE PREMISES DAILY.

K. FOR DEVICES AND FIXTURES REMOVED FROM EXISTING TO REMAIN WALLS, REMOVE BACKBOX AND CONDUIT FROM WALL AND REPAIR WALL TO MATCH ADJACENT FINISH.

L. FOR ALL REMOVED LIGHTING FIXTURES, REMOVE ELECTRIC CABLING BACK TO NEAREST DEVICE. MODIFY ELECTRICAL CIRCUIT AS REQUIRED.

KEYNOTES

022601	EXISTING RECEPTACLE TO BE REMOVED.
022602	DISCONNECT POWER TO MECHANICAL EQUIPMENT; REMOVE CIRCUIT TO SOURCE OR NEAREST REMAINING DEVICE.
022603	REMOVE DISCONNECT SWITCH FOR THE REMOVED CONDENSING UNIT. FIELD VERIFY SWITCH LOCATION PRIOR TO REMOVAL.
022616	DISCONNECT POWER TO MECHANICAL EQUIPMENT; CIRCUIT TO REMAIN FOR REUSE WITH NEW EQUIPMENT.
022617	DISCONNECT DEVICE FROM EXISTING CIRCUIT; DEVICE TO REMAIN. PREPARE DEVICE FOR NEW CIRCUIT. REFER TO E2.1 FOR FURTHER INFORMATION.

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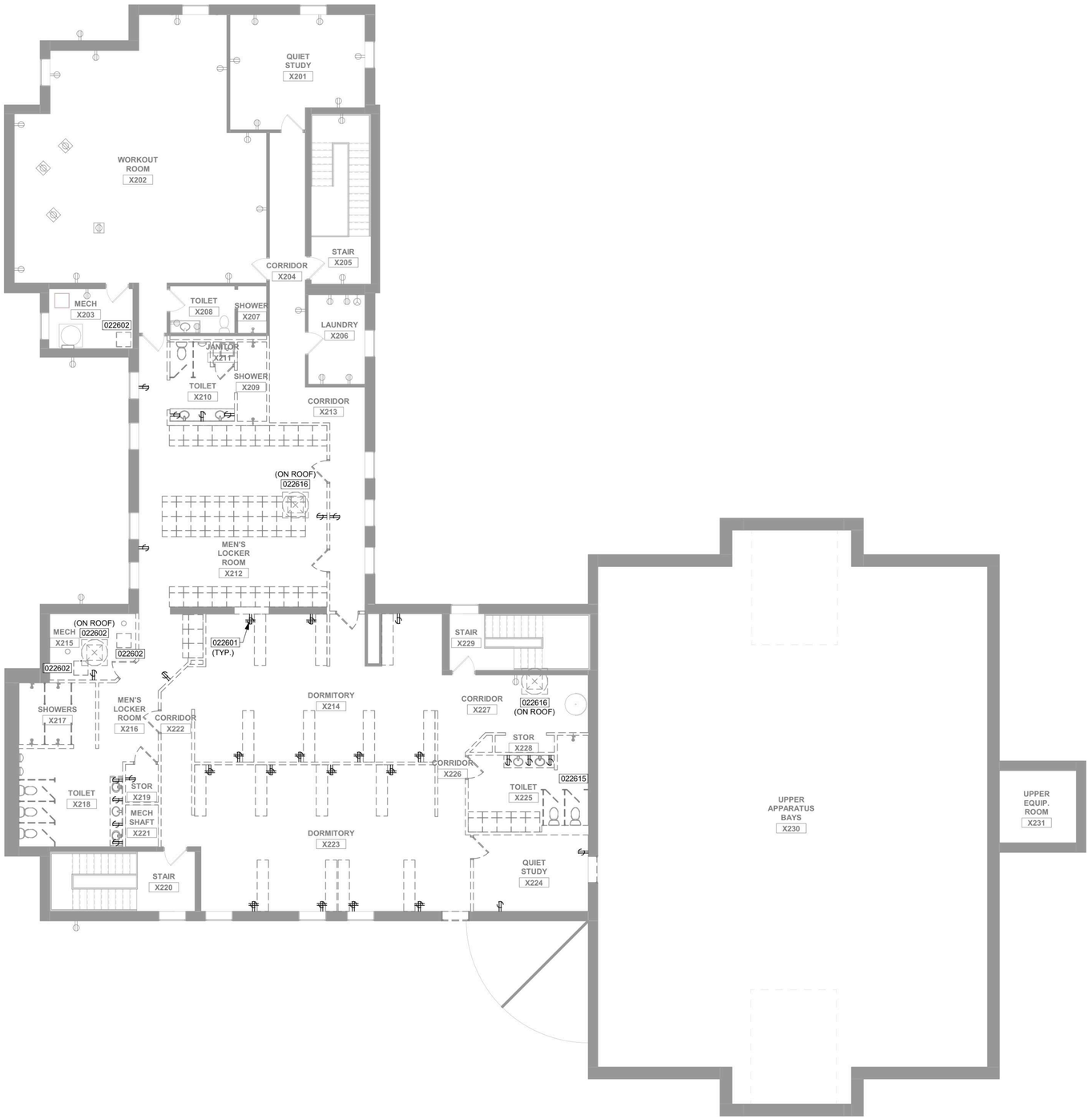
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DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/EGF
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PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION
FIRST FLOOR POWER REMOVAL PLAN

DRAWING NUMBER ED2.1
ELECTRICAL

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7/1/2026 4:23:12 PM



1 **SECOND FLOOR POWER REMOVAL PLAN**
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES:

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. BOLD AND DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (E.G. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC.) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.O.N.

C. SHADED LINES INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN.

D. ALL EXISTING LIGHTING, POWER, SYSTEMS DEVICES / EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.

E. NOT ALL KEYNOTES ARE USED ON EVERY SHEET.

F. REMOVE EXISTING SYSTEMS, MATERIALS, AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.

   a. REINSTALL ANY SUCH SYSTEMS, MATERIALS, AND EQUIPMENT WHICH ARE REQUIRED TO COMPLETE THE PROJECT.

G. WHERE EXISTING EQUIPMENT OR MATERIALS ARE REMOVED OR CHANGED, ALL BRANCH CONDUITS, WHICH NO LONGER ARE IN SERVICE, SHALL BE REMOVED AS DIRECTED BY THE ARCHITECT. IF, IN THE COURSE OF THE WORK, OUTLETS ARE COVERED UP OR OTHERWISE RENDERED INACCESSIBLE, ALL WIRING TO SAME SHALL BE REMOVED TO THE SOURCE. IF A CIRCUIT THAT MUST REMAIN IN SERVICE IS INTERRUPTED, IT SHALL BE RECONNECTED BY THE MOST INCONSPICUOUS MEANS SO AS TO REMAIN OPERATIONAL, WITH SAME CAPACITY AS BEFORE. ALL BUILDING SURFACES DAMAGED, AND OPENING LEFT BY REMOVAL OF BOXES, PIPING, OR THEIR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. ALL HOLES LEFT IN JUNCTION BOXES, SWITCHES, PANELS, ETC. SHALL BE CLOSED.

H. WHERE NEW OPENINGS ARE CUT AND CONCEALED CONDUITS, ETC. ARE ENCOUNTERED, THEY SHALL BE REMOVED OR RELOCATED AS REQUIRED. CONDUIT SHALL BE REMOVED TO THE POINT WHERE THE FINISH SURFACES CAN BE PATCHED ADEQUATELY SO THAT NO EVIDENCE OF THE FORMER INSTALLATION REMAINS.

I. REFER TO ARCHITECTURAL DRAWINGS WHICH SHOW THE TOTAL DEMOLITION IN SPECIFIC AREAS. E.C. SHALL COORDINATE IN THIS DEMOLITION TO ENSURE THAT POWER IS OFF AND THAT ELECTRICAL EQUIPMENT THAT MUST REMAIN IS PROPERLY PROTECTED.

J. ALL REUSABLE DEVICES, FIXTURES, AND EQUIPMENT SHALL BE SALVAGED, SHALL BECOME THE PROPERTY OF THE OWNER, AND SHALL BE STORED BY THE CONTRACTOR IN A ROOM TO BE DESIGNATED BY THE OWNER. ALL OTHER REMOVED ITEMS AND DEBRIS SHALL BE CLEARED FROM THE PREMISES DAILY.

K. FOR DEVICES AND FIXTURES REMOVED FROM EXISTING TO REMAIN WALLS, REMOVE BACKBOX AND CONDUIT FROM WALL AND REPAIR WALL TO MATCH ADJACENT FINISH.

L. FOR ALL REMOVED LIGHTING FIXTURES, REMOVE ELECTRIC CABLING BACK TO NEAREST DEVICE. MODIFY ELECTRICAL CIRCUIT AS REQUIRED.

KEYNOTES

022601	EXISTING RECEPTACLE TO BE REMOVED.
022602	DISCONNECT POWER TO MECHANICAL EQUIPMENT; REMOVE CIRCUIT TO SOURCE OR NEAREST REMAINING DEVICE.
022615	DISCONNECT POWER TO EXHAUST FAN EQUIPMENT.
022616	DISCONNECT POWER TO MECHANICAL EQUIPMENT; CIRCUIT TO REMAIN FOR REUSE WITH NEW EQUIPMENT.

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DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/ESF
APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

INDIANA
CARMEL
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION
SECOND FLOOR POWER REMOVAL PLAN

DRAWING NUMBER ED2.2 ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Electrical_AM
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1 **FIRST FLOOR LIGHTING REMOVAL PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. BOLD AND DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (E.G. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC.) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.O.N.

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L. FOR ALL REMOVED LIGHTING FIXTURES, REMOVE ELECTRIC CABLING BACK TO NEAREST DEVICE. MODIFY ELECTRICAL CIRCUIT AS REQUIRED.

KEYNOTES

022604	REMOVE 2'X4' TROFFER FIXTURE.
022605	REMOVE DOWNLIGHT FIXTURE.
022606	REMOVE WRAPAROUND FIXTURE.
022607	REMOVE 4' STRIP FIXTURE.
022608	REMOVE EXIT SIGN FIXTURE.
022609	REMOVE UNDERCABINET FIXTURE.
022610	REMOVE VANITY FIXTURE.
022614	REMOVE WALL SWITCH ON WALL TO REMAIN. REMOVE ELECTRIC CABLING BACK TO NEAREST WIRING DEVICE. REPAIR WALL AS REQUIRED.

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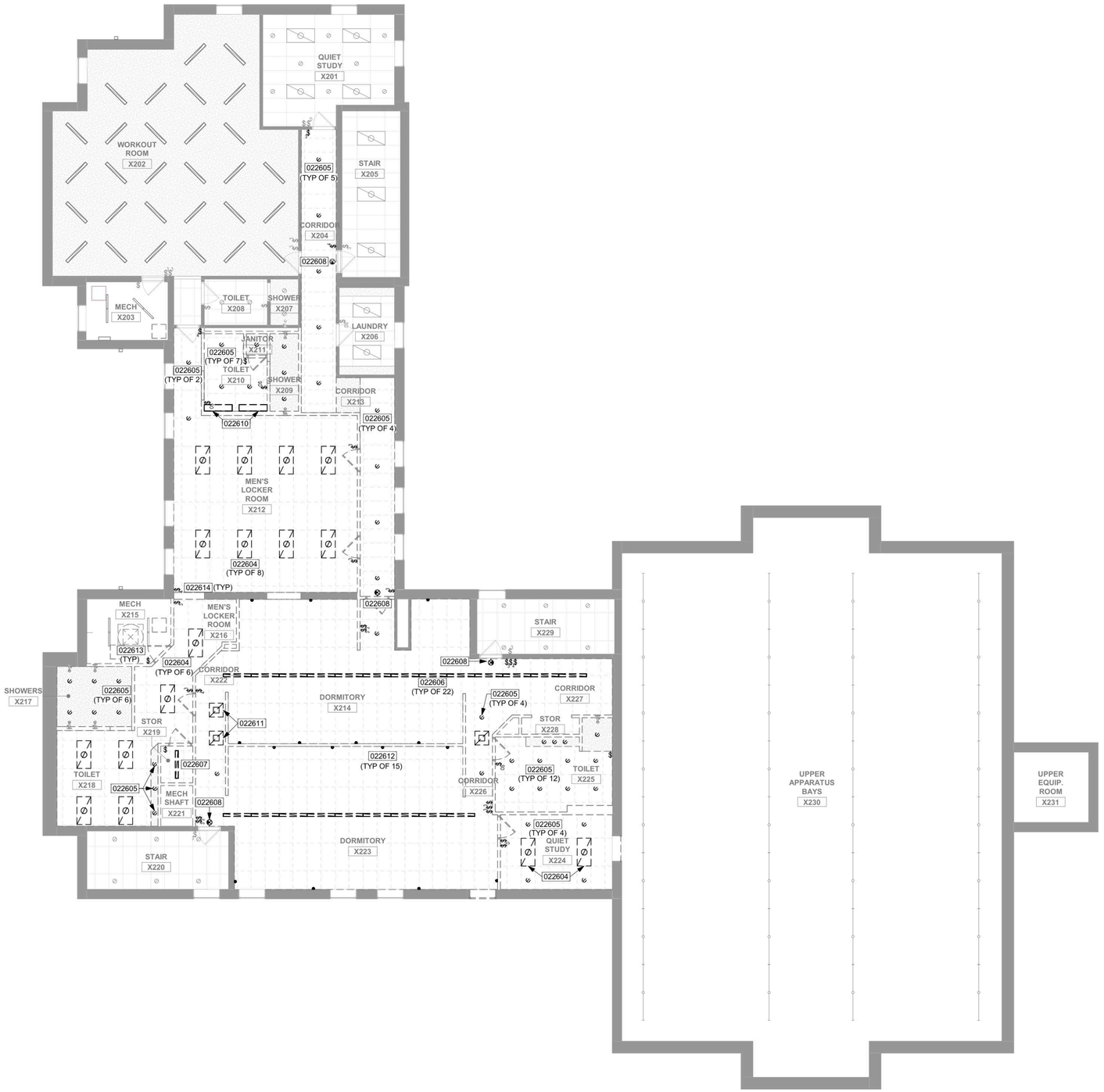
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APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER: 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

FIRST FLOOR LIGHTING REMOVAL PLAN

DRAWING NUMBER: ED3.1
ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Dept_Electrical.rvt
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1 **SECOND FLOOR LIGHTING REMOVAL PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. BOLD AND DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (E.G. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC.) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.O.N.

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K. FOR DEVICES AND FIXTURES REMOVED FROM EXISTING TO REMAIN WALLS, REMOVE BACKBOX AND CONDUIT FROM WALL AND REPAIR WALL TO MATCH ADJACENT FINISH.

L. FOR ALL REMOVED LIGHTING FIXTURES, REMOVE ELECTRIC CABLING BACK TO NEAREST DEVICE. MODIFY ELECTRICAL CIRCUIT AS REQUIRED.

KEYNOTES

022604	REMOVE 2'X4' TROFFER FIXTURE.
022605	REMOVE DOWNLIGHT FIXTURE.
022606	REMOVE WRAPAROUND FIXTURE.
022607	REMOVE 4' STRIP FIXTURE.
022608	REMOVE EXIT SIGN FIXTURE.
022610	REMOVE VANITY FIXTURE.
022611	REMOVE 2'X2' TROFFER FIXTURE.
022612	REMOVE WALL MOUNT BOOKLIGHT FIXTURE.
022613	REMOVE WALL SWITCH ON WALL BEING REMOVED. REMOVE ELECTRIC CABLING BACK TO NEAREST WIRING DEVICE.
022614	REMOVE WALL SWITCH ON WALL TO REMAIN. REMOVE ELECTRIC CABLING BACK TO NEAREST WIRING DEVICE. REPAIR WALL AS REQUIRED.

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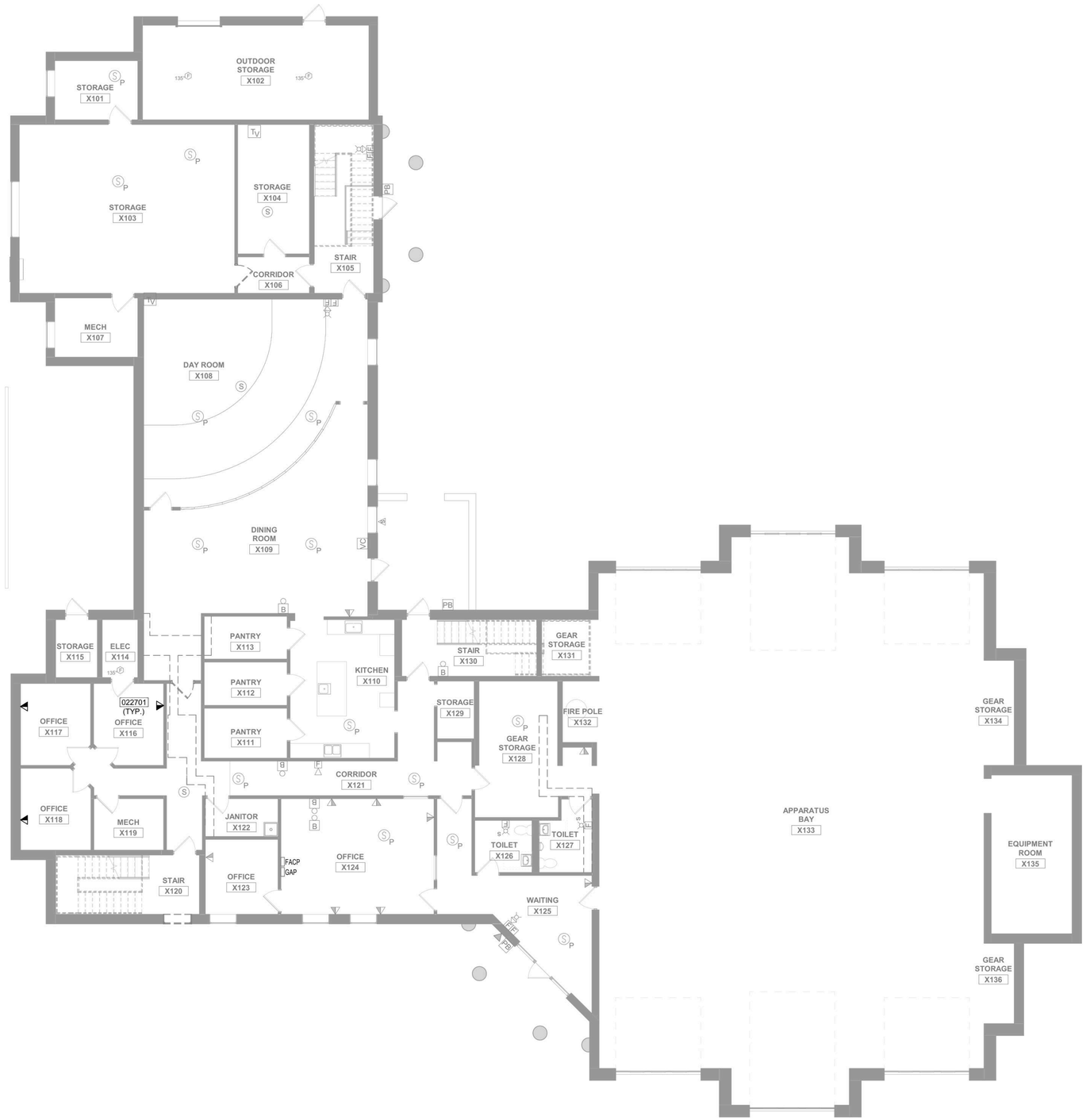
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DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

SECOND FLOOR LIGHTING REMOVAL PLAN

DRAWING NUMBER ED3.2 ELECTRICAL

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NORTH

1 **FIRST FLOOR SYSTEMS REMOVAL PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. BOLD AND DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (E.G. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC.) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.O.N.

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K. FOR DEVICES AND FIXTURES REMOVED FROM EXISTING TO REMAIN WALLS, REMOVE BACKBOX AND CONDUIT FROM WALL AND REPAIR WALL TO MATCH ADJACENT FINISH.

L. FOR ALL REMOVED LIGHTING FIXTURES, REMOVE ELECTRIC CABLING BACK TO NEAREST DEVICE. MODIFY ELECTRICAL CIRCUIT AS REQUIRED.

KEYNOTES

022701 TELEPHONE/DATA TO BE REMOVED.

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CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

FIRST FLOOR SYSTEMS REMOVAL PLAN

DRAWING NUMBER ED4.1 ELECTRICAL

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7/1/2026 4:29:21 PM



1 **SECOND FLOOR SYSTEMS REMOVAL PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. BOLD AND DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (E.G. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC.) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.O.N.

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L. FOR ALL REMOVED LIGHTING FIXTURES, REMOVE ELECTRIC CABLING BACK TO NEAREST DEVICE. MODIFY ELECTRICAL CIRCUIT AS REQUIRED.

KEYNOTES

022701	TELEPHONE/DATA TO BE REMOVED.
022702	SPEAKER TO BE REMOVED.
022703	FIRE ALARM STROBE TO BE REMOVED.
022704	BELL TO BE REMOVED.
022705	CATV CABLE OUTLET TO BE REMOVED.
022706	FIRE ALARM SMOKE DETECTOR TO BE REMOVED.

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MICHAEL S. KRIZMAN, JR. • REGISTERED • PROFESSIONAL ENGINEER • STATE OF INDIANA • No. 12300530 • 07/01/2026

NO.	REVISION	DATE

DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/EGF
APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

INDIANA
CARMEL
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION
SECOND FLOOR SYSTEMS REMOVAL PLAN

DRAWING NUMBER ED4.2 ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Electrical_A
7/1/2026 12:23:23 PM



1 **FIRST FLOOR POWER PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. FOR PANELBOARD SCHEDULES, SEE DRAWING E6.1

C. FIELD COORDINATE PRIOR TO CONSTRUCTION. EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS, FURNITURE LAYOUT/SUBMITTALS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

D. BOLD LINES INDICATE NEW ELECTRICAL TO BE INSTALLED. PROVIDE NEW CIRCUIT FROM SOURCE AS INDICATED UON.

E. MECHANICAL EQUIPMENT TAGS INDICATE NEW EQUIPMENT TO BE INSTALLED. PROVIDE NEW CIRCUIT FROM SOURCE AS INDICATED AND CONNECT TO UNIT UON.

KEYNOTES

260501	CONNECT NEW CEILING FANS TO EXISTING CEILING FANS CIRCUIT. PROVIDE NEW SWITCH CIRCUIT AS INDICATED.
260504	NEW 60A DISCONNECT SWITCH FOR ACC UNIT.
260505	CONNECT EXISTING RECEPTACLE TO CIRCUIT INDICATED.

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CARMEL
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION
INDIANA

FIRST FLOOR POWER PLAN

DRAWING NUMBER E2.1 ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_Electrical.rvt
7/1/2026 4:29:24 PM



NORTH

1 **SECOND FLOOR POWER PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. FOR PANELBOARD SCHEDULES, SEE DRAWING E6.1

C. FIELD COORDINATE PRIOR TO CONSTRUCTION. EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS, FURNITURE LAYOUT/SUBMITTALS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

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KEYNOTES

260502	TYP. FOR ALL ERHP PROVIDE NEW 120V CIRCUIT FROM PANELBOARD 'F-5'.
260503	TYP. FOR ALL VRF PROVIDE NEW 120V CIRCUIT FROM PANELBOARD 'F-5'.

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INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION
SECOND FLOOR POWER PLAN

CARMEL

DRAWING NUMBER E2.2 ELECTRICAL

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7/1/2026 4:29:25 PM



1 FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. FOR PANELBOARD SCHEDULES, SEE DRAWING E6.1

C. FIELD COORDINATE PRIOR TO CONSTRUCTION. EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS, FURNITURE LAYOUT/SUBMITTALS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

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KEYNOTES

265001 HANG FIXTURE AT 9'-0" AFF.

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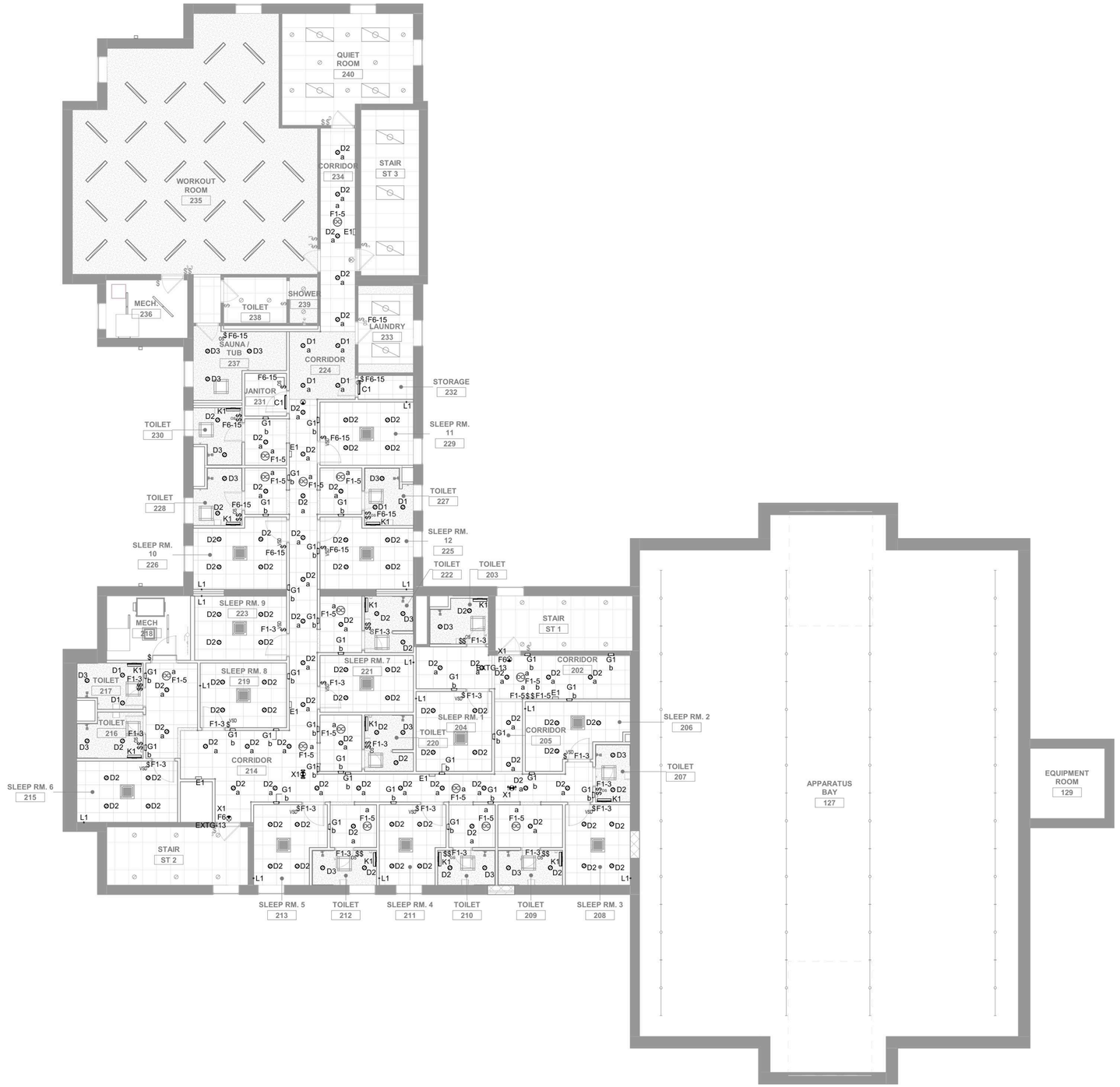
DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/EGF
APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION
FIRST FLOOR LIGHTING PLAN

CARMEL

DRAWING NUMBER E3.1 ELECTRICAL

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7/1/2026 4:29:28 PM



1 **SECOND FLOOR LIGHTING PLAN**
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. FOR PANELBOARD SCHEDULES, SEE DRAWING E6.1

C. FIELD COORDINATE PRIOR TO CONSTRUCTION. EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS, FURNITURE LAYOUT/SUBMITTALS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

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PROJECT NUMBER: 2563-4069-90

CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

SECOND FLOOR LIGHTING PLAN

DRAWING NUMBER: E3.2
ELECTRICAL

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7/1/2026 4:29:34 PM



1 **FIRST FLOOR SYSTEMS PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. FOR PANELBOARD SCHEDULES, SEE DRAWING E6.1

C. FIELD COORDINATE PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS, FURNITURE LAYOUT/SUBMITTALS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

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DATE: JUNE 30, 2026
PROJECT NUMBER: 2563-4069-90

CARMEL INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

FIRST FLOOR FIRE ALARM PLAN

DRAWING NUMBER: E4.1
ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_EF_25_cm.rvt
7/1/2026 12:39:39 PM



1 **SECOND FLOOR SYSTEMS PLAN**
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

A. REFER TO SHEETS G1.1 AND E0.1 FOR ADDITIONAL GENERAL NOTES AND INFORMATION.

B. FOR PANELBOARD SCHEDULES, SEE DRAWING E6.1

C. FIELD COORDINATE PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHTS AND LOCATIONS FOR WIRING DEVICES WITH THE CASEWORK SHOP DRAWINGS, FURNITURE LAYOUT/SUBMITTALS AND ARCHITECTURAL ELEVATIONS AND DETAILS.

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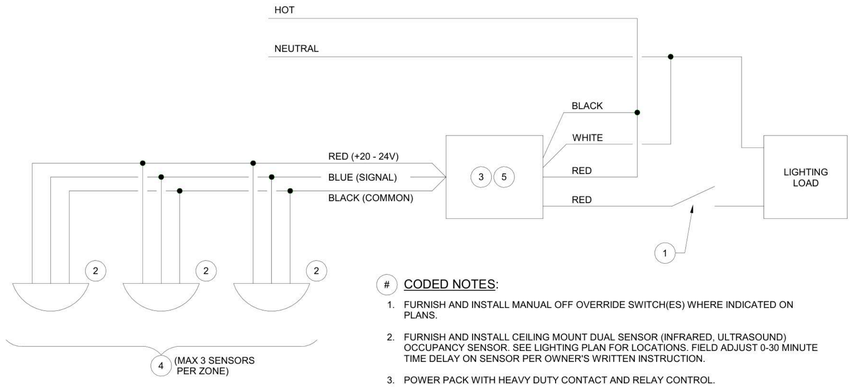
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PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION
SECOND FLOOR FIRE ALARM PLAN

DRAWING NUMBER E4.2 ELECTRICAL

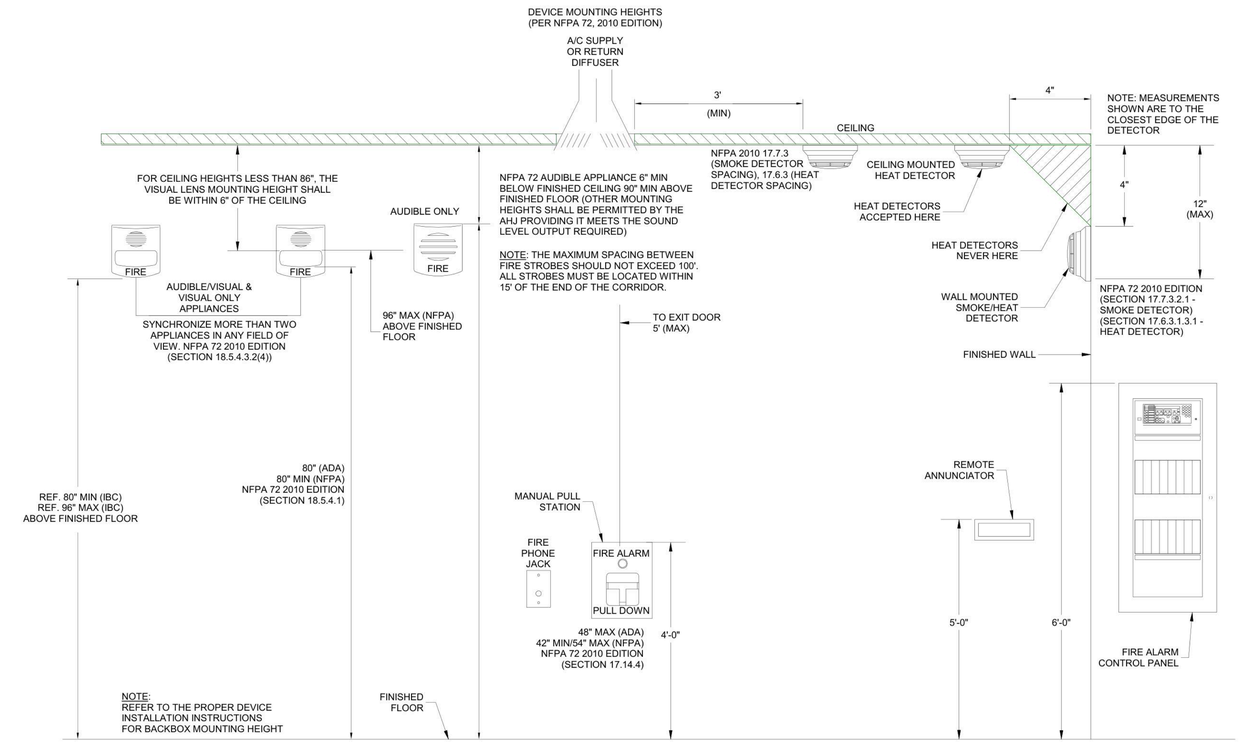
Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Depart_Electrical.rvt
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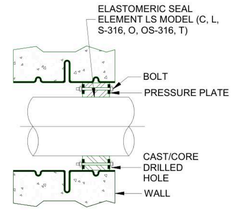
CODED NOTES:

1. FURNISH AND INSTALL MANUAL OFF OVERRIDE SWITCH(ES) WHERE INDICATED ON PLANS.
2. FURNISH AND INSTALL CEILING MOUNT DUAL SENSOR (INFRARED, ULTRASOUND) OCCUPANCY SENSOR. SEE LIGHTING PLAN FOR LOCATIONS. FIELD ADJUST 0-30 MINUTE TIME DELAY ON SENSOR PER OWNER'S WRITTEN INSTRUCTION.
3. POWER PACK WITH HEAVY DUTY CONTACT AND RELAY CONTROL.
4. ALL CONTROL WIRING SHALL BE NOT LESS THAN 2#14, #14G., 1/2"C., UON.
5. TRANSFORMER, POWER PACK AND ALL ASSOCIATED COMPONENTS SHALL BE INSTALLED IN A NEMA APPROVED BOX.

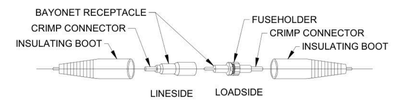
6 OCCUPANCY SENSOR WIRING DIAGRAM
SCALE: N.T.S.



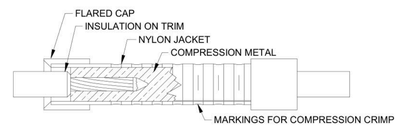
5 FIRE ALARM DEVICES - MOUNTING REQUIREMENTS AS PER NFPA 72
SCALE: N.T.S.



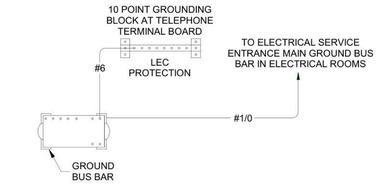
4 WALL PENETRATION LEAK SEAL DETAIL
SCALE: N.T.S.



3 BAYONET FUSE CONNECTOR DETAIL
SCALE: N.T.S.



2 INSULATING LINK DETAIL
SCALE: N.T.S.



NOTE:
1. CONTRACTOR SHALL FIELD COORDINATE BEST LOCATION WITHIN EACH IT ROOM

1 TELECOMMUNICATIONS GROUNDING DETAIL
SCALE: N.T.S.

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PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

DETAILS - 1

DRAWING NUMBER E5.1

ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Station_Electrical.rvt
7/1/2026 4:25:43 PM

Branch Panel: F1 EXTG

Location: Space 13
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	FLOUR LTS - 1ST FL.	20 A	1	948	0					3	80 A	LIFT STATION	2
3	FLOUR LTS - 2ND FL.	20 A	1			821	0			--	--	--	4
5	N & E DORM LTS	20 A	1					925	0	--	--	--	6
7	BOOSTER PUMP CONTROLLER	20 A	3	0	0					3	15 A	GOVT CENTER METERING	8
9	--	--	--			0	0			--	--	--	10
11	--	--	--					0	0	--	--	--	12
13	SPARE	30 A	3	0	0					3	20 A	TRUCK EXHAUST	14
15	--	--	--			0	0			--	--	--	16
17	--	--	--					0	0	--	--	--	18
19	PANEL G3 FEED	60 A	3	0	0					1	20 A	OUTSIDE LIGHTS (VIA TIME CLOCK)	20
21	--	--	--			0	0			1	20 A	SPARE	22
23	--	--	--					0	0	1	20 A	POLE LIGHTS	24
25	PANEL F2 FEED	90 A	3	0	0					1	20 A	SPARE	26
27	--	--	--			0	0			1	20 A	SPARE	28
29	--	--	--					0	0	1	20 A	SPARE	30
		Total Load:		948 VA		821 VA		925 VA					
		Total Amps:		3 A		3 A		3 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2207 VA	100.00%	2207 VA		
Other	98 VA	100.00%	98 VA	**Total Conn. Load:**	2685 VA
Lighting - Dwelling Unit	384 VA	100.00%	384 VA	**Total Est. Demand:**	2685 VA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

Notes:

Branch Panel: F1

Location: Space 13
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 400 A
MCB Rating: 400 A

Notes:
NEW

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	LIGHTING - WEST FIRST FLOOR	20 A	1	1503	0					3	80 A	LIFT STATION	2
3	LIGHTING - WEST SECOND FLOOR	20 A	1			2158	0			--	--	--	4
5	LIGHTING - SECOND FLOOR CORR.	20 A	1					859	0	--	--	--	6
7	BOOSTER PUMP CONTROLLER	20 A	3	0	0					3	15 A	GOVT CENTER METERING	8
9	--	--	--			0	0			--	--	--	10
11	--	--	--					0	0	--	--	--	12
13	EDH-1	35 A	3	6667	0					3	20 A	TRUCK EXHAUST	14
15	--	--	--			6667	0			--	--	--	16
17	--	--	--					6667	0	--	--	--	18
19	PANEL G3 FEED	60 A	3	0	0					1	20 A	OUTSIDE LIGHTS (VIA TIME CLOCK)	20
21	--	--	--			0	0			1	20 A	SPARE	22
23	--	--	--					0	0	1	20 A	POLE LIGHTS	24
25	PANEL F2 FEED	90 A	3	0	0					1	20 A	SPARE	26
27	--	--	--			0	0			1	20 A	SPARE	28
29	--	--	--					0	0	1	20 A	SPARE	30
		Total Load:		8121 VA		8268 VA		7526 VA					
		Total Amps:		30 A		30 A		27 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2619 VA	100.00%	2619 VA		
Motor	20000 VA	125.00%	25000 VA	**Total Conn. Load:**	23833 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	28818 VA
Receptacle	0 VA	0.00%	0 VA	**Total Conn. Current:**	29 A
Iluminación	2301 VA	100.00%	2301 VA	**Total Est. Demand Current:**	35 A

Notes:

Branch Panel: F2 EXTG

Location: Space 13
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	OUTLETS DINNING RM 109	20 A	1	180	0					1	20 A	OUTLETS GFCI BAY	2
3	DINING LTS	20 A	1			224	1800			1	20 A	2ND FLOOR QUAD	4
5	UNIDENTIFIED	20 A	1					0	1800	1	20 A	2ND FLOOR QUAD	6
7	UNIDENTIFIED	20 A	1	0	1620					1	20 A	2ND FLOOR QUAD	8
9	UNIDENTIFIED	20 A	1			0	0			1	20 A	DRYER VENT BOOSTER	10
11	RM 116, 117 RECEPTACLES	20 A	1					540	0	1	20 A	2ND FLOOR RECEPTACLES	12
13	RM 117,118 RECEPTACLES	20 A	1	360	0					1	20 A	UNIDENTIFIED	14
15	UNIDENTIFIED	20 A	1			0	0			1	20 A	HOIST WASHER	16
17	OFFICE 123 RECEPTACLES	20 A	1					0	0	1	20 A	CORD REEL SOUTH	18
19	OFFICE 124 RECEPTACLES	20 A	1	0	0					1	20 A	APPARATUS BAY HEATERS	20
21	OFFICE 124 RECEPTACLES	20 A	1			0	0			1	20 A	DEDICATED QUAD FA ALERT	22
23	EXITS	20 A	1					0	0	1	20 A	CORD REELS WEST	24
25	FIRE ALARM	20 A	1	500	0					1	20 A	CORD REELS NORTH EAST	26
27	SOUTH BAY LIGHTS	20 A	1			0	4			1	20 A	UPSTAIRS EXHAUST	28
29	SPARE	20 A	1					0	0	1	20 A	NE OVERHEAD DOOR	30
31	OVERHEAD DOORS	20 A	1	0	0					3	90 A	PANEL F3 FEED	32
33	OVERHEAD DOORS	20 A	1			0	0			--	--	--	34
35	NORTH BAY LIGHTS (VIA LC)	20 A	1					0	0	--	--	--	36
		Total Load:		2660 VA		2018 VA		2340 VA					
		Total Amps:		23 A		17 A		20 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	224 VA	100.00%	224 VA		
Motor	4 VA	125.00%	5 VA	**Total Conn. Load:**	7017 VA
Receptacle	6300 VA	100.00%	6300 VA	**Total Est. Demand:**	7018 VA
				Total Conn. Current:	19 A
				Total Est. Demand Current:	19 A

Notes:

Branch Panel: F2

Location: Space 13
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 200 A

Notes:
NEW

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	OUTLETS & CEILING FANS DINNING RM 109	20 A	1	1224	0					1	20 A	OUTLETS GFCI BAY	2
3	EAST CEILING FANS	20 A	1			504	9187			2	45 A	ACC-2	4
5	UNIDENTIFIED	20 A	1					0	9187	--	--	--	6
7	UNIDENTIFIED	20 A	1	0	180					1	20 A	RM 109 RECEPTACLES	8
9	UNIDENTIFIED	20 A	1			0	0			1	20 A	DRYER VENT BOOSTER	10
11	RM 111 RECEPTACLES	20 A	1					720	0	1	20 A	SPARE	12
13	RM 109, 112 RECEPTACLES	20 A	1	720	0					1	20 A	UNIDENTIFIED	14
15	UNIDENTIFIED	20 A	1			0	0			1	20 A	HOIST WASHER	16
17	OFFICE 123 RECEPTACLES	20 A	1					720	0	1	20 A	CORD REEL SOUTH	18
19	OFFICE 124 RECEPTACLES	20 A	1	720	0					1	20 A	APPARATUS BAY HEATERS	20
21	OFFICE 124 RECEPTACLES	20 A	1			900	180			1	20 A	DEDICATED QUAD FA ALERT	22
23	EXIT SIGN RM 130	20 A	1					6	0	1	20 A	CORD REELS WEST	24
25	FIRE ALARM	20 A	1	500	0					1	20 A	CORD REELS NORTH EAST	26
27	SOUTH BAY LIGHTS	20 A	1			512	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	NE OVERHEAD DOOR	30
31	OVERHEAD DOORS	20 A	1	0	0					3	90 A	PANEL F3 FEED	32
33	OVERHEAD DOORS	20 A	1			0	0			--	--	--	34
35	NORTH BAY LIGHTS (VIA LC)	20 A	1					512	0	--	--	--	36
		Total Load:		3344 VA		11258 VA		11120 VA					
		Total Amps:		28 A		104 A		103 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	6 VA	100.00%	6 VA		
Motor	19381 VA	123.70%	23974 VA	**Total Conn. Load:**	25722 VA
Lighting - Dwelling Unit	1024 VA	100.00%	1024 VA	**Total Est. Demand:**	30315 VA
Receptacle	4860 VA	100.00%	4860 VA	**Total Conn. Current:**	71 A
MISC EQUIP	500 VA	100.00%	500 VA	**Total Est. Demand Current:**	84 A

Notes:

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DLZ Indiana, LLC

MICHAEL S. KRIZMAN, JR. REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA No. 12300530 07/2026

NO.	REVISION	DATE

DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/EGF
APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

SCHEDULES

DRAWING NUMBER E6.1
ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_E.rvt
7/1/2026 4:28:44 PM

Branch Panel: F3 EXTG

Location: Space 13
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	GEN BATT CHARGER	20 A	1	0	0					3	30 A	SPARE	2
3	IRRIGATION RECEPTACLES	20 A	1			0	0			--	--	--	4
5	SPARE	20 A	1					0	0	--	--	--	6
7	SPARE	20 A	1	0	0					1	20 A	KITCHEN RECEPTACLES	8
9	ELEC RM RECEPTACLES	20 A	1			0	0			1	20 A	DISHWASHER	10
11	RM 125, 126, 127 RECEPTACLES	20 A	1					0	0	1	20 A	KITCHEN RECEPTACLES	12
13	DISPOSAL	20 A	1	0	0					1	20 A	KITCHEN EXHAUST	14
15	GFCI KITCHEN	20 A	1			0	0			1	20 A	RADIO TRANSFER	16
17	GEAR STORAGE QUAD RECEPTACLES	20 A	1					0	0	1	20 A	SPARE	18
19	AIR COMPRESSOR	40 A	2	0	0					1	20 A	UNIDENTIFIED	20
21	--	--	--			0	0			1	20 A	UNIDENTIFIED	22
23	UNIDENTIFIED	20 A	1					0	0	1	20 A	UNIDENTIFIED	24
25	SPARE	20 A	1	0	0					1	20 A	UNIDENTIFIED	26
27	GARAGE RECEPTACLES	20 A	1			0	0			2	30 A	CRANK CASE HEATER	28
29	GARAGE RECEPTACLES	20 A	1					0	0	--	--	--	30
31	GARAGE RECEPTACLES	20 A	1	0	0					1	20 A	UNIDENTIFIED	32
33	GARAGE RECEPTACLES	20 A	1			0	0			1	20 A	UNIDENTIFIED	34
35	GARAGE RECEPTACLES	20 A	1					0	0	1	20 A	SPARE	36
37	GARAGE RECEPTACLES	20 A	1	0	0					2	50 A	TEMP RANGE	38
39	SPARE	20 A	1			0	0			--	--	--	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	0 VA		0 VA		0 VA					
			Total Amps:	0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: F3

Location: Space 13
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
NEW

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	GEN BATT CHARGER	20 A	1	0	1537					3	15 A	ERV-1 RM 218	2
3	IRRIGATION RECEPTACLES	20 A	1			0	1537			--	--	--	4
5	SPARE	20 A	1					0	1537	--	--	--	6
7	SPARE	20 A	1	0	540					1	20 A	KITCHEN RECEPTACLES	8
9	ELEC RM RECEPTACLES	20 A	1			0	180			1	20 A	DISHWASHER	10
11	RM 125, 126, 127 RECEPTACLES	20 A	1					720	0	1	20 A	KITCHEN RECEPTACLES	12
13	DISPOSAL	20 A	1	180	0					1	20 A	KITCHEN EXHAUST	14
15	GFCI KITCHEN	20 A	1			360	0			1	20 A	RADIO TRANSFER	16
17	GEAR STORAGE QUAD RECEPTACLES	20 A	1					360	0	1	20 A	SPARE	18
19	AIR COMPRESSOR	40 A	2	0	0					1	20 A	UNIDENTIFIED	20
21	--	--	--			0	0			1	20 A	UNIDENTIFIED	22
23	UNIDENTIFIED	20 A	1					0	0	1	20 A	UNIDENTIFIED	24
25	SPARE	20 A	1	0	0					1	20 A	UNIDENTIFIED	26
27	SPARE	20 A	1			0	0			2	30 A	CRANK CASE HEATER	28
29	GARAGE RECEPTACLES	20 A	1					0	0	--	--	--	30
31	GARAGE RECEPTACLES	20 A	1	0	0					1	20 A	UNIDENTIFIED	32
33	GARAGE RECEPTACLES	20 A	1			0	0			1	20 A	UNIDENTIFIED	34
35	GARAGE RECEPTACLES	20 A	1					0	0	1	20 A	SPARE	36
37	GARAGE RECEPTACLES	20 A	1	0	0					2	50 A	TEMP RANGE	38
39	SPARE	20 A	1			0	0			--	--	--	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	2257 VA		2077 VA		2617 VA					
			Total Amps:	19 A		17 A		22 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	4611 VA	125.00%	5764 VA		
Receptacle	2340 VA	100.00%	2340 VA	**Total Conn. Load:**	6951 VA
				Total Est. Demand:	8104 VA
				Total Conn. Current:	19 A
				Total Est. Demand Current:	22 A

Notes:

Branch Panel: F4 EXTG

Location: Space 9
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	OUTDOOR RECEPTS EAST	20 A	1	0	0					1	20 A	TRAINING ROOM W RECEPTACLES	2
3	STORAGE 102 RECEPTACLES	20 A	1			0	0			1	20 A	TRAINING ROOM E RECEPTACLES	4
5	STORAGE 101 RECEPTACLES	20 A	1					0	0	1	20 A	TRAINING ROOM S RECEPTACLES	6
7	STORAGE 103 RECEPTACLES	20 A	1	0	0					1	20 A	SE EXT & W WALL TRAINING/COMP	8
9	SPACE	--	1			--	0			1	20 A	STAIR HALL RECEPTACLES	10
11	DAYROOM QUAD NE CORNER	20 A	1					0	224	1	20 A	DAYROOM LIGHTS	12
13	DAYROOM RECEPTACLES	20 A	1	0	0					1	20 A	VENDING/KITCH ISLAND	14
15	DAYROOM RECEPTACLES	20 A	1			0	0			1	20 A	VENDING/KITCH ISLAND	16
17	RM 121, RM 129 RECEPTACLES	20 A	1					0	0	1	20 A	JANITOR 122 RECEPTACLES	18
19	UNIDENTIFIED	20 A	1	0	0					1	20 A	MECH RM 119 AC-2	20
21	PANTRY RM 112 FREEZER	20 A	1			0	0			1	20 A	MECH RM 119 AC-1	22
23	MICROWAVE	20 A	1					0	0	1	20 A	WIREMOLD RM 102	24
25	PANTRY 113 REFRIGERATOR	20 A	1	0	0					1	20 A	WIREMOLD RM 103	26
27	PANTRY RM 113 FREEZER	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	FANS GRILL DINING RM TABLE	34
35	SPARE	20 A	1					0	0	1	20 A	UNIDENTIFIED	36
37	PANTRY 112 REFRIGERATOR	20 A	1	0	0					1	20 A	PANTRY 111 REFRIGERATOR	38
39	SPARE	30 A	2			0	0			1	20 A	PANTRY RM 111 FREEZER	40
41	--	--	--					0	0	1	20 A	SPARE	42
			Total Load:	0 VA		0 VA		224 VA					
			Total Amps:	0 A		0 A		2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	224 VA	100.00%	224 VA		
				Total Conn. Load:	224 VA
				Total Est. Demand:	224 VA
				Total Conn. Current:	1 A
				Total Est. Demand Current:	1 A

Notes:

Branch Panel: F4

Location: Space 9
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
NEW

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	OUTDOOR RECEPTS EAST	20 A	1	540	540					1	20 A	TRAINING ROOM W RECEPTACLES	2
3	STORAGE 102 RECEPTACLES	20 A	1			360	540			1	20 A	TRAINING ROOM E RECEPTACLES	4
5	STORAGE 101 RECEPTACLES	20 A	1					180	360	1	20 A	TRAINING ROOM S RECEPTACLES	6
7	STORAGE 103 RECEPTACLES	20 A	1	180	360					1	20 A	SE EXT & W WALL TRAINING/COMP	8
9	SPACE	--	1			--	900			1	20 A	STAIR HALL RECEPTACLES	10
11	DAYROOM QUAD NE CORNER	20 A	1					360	1440	1	20 A	OFFICE 102A/B RECEPTACLES	12
13	DAYROOM RECEPTACLES	20 A	1	900	540					1	20 A	VENDING/KITCH ISLAND	14
15	DAYROOM RECEPTACLES	20 A	1			540	540			1	20 A	VENDING/KITCH ISLAND	16
17	RM 121, RM 129 RECEPTACLES	20 A	1					1260	360	1	20 A	JANITOR 122 RECEPTACLES	18
19	UNIDENTIFIED	20 A	1	0	1656					1	20 A	MECH RM 119 AC-2	20
21	PANTRY RM 112 FREEZER	20 A	1			180	1656			1	20 A	MECH RM 119 AC-1	22
23	MICROWAVE	20 A	1					0	0	1	20 A	WIREMOLD RM 102	24
25	PANTRY 113 REFRIGERATOR	20 A	1	180	0					1	20 A	WIREMOLD RM 103	26
27	PANTRY RM 113 FREEZER	20 A	1			180	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1	0	0					1	20 A	SPARE	32
33	SPARE	20 A	1			0	0			1	20 A	FANS GRILL DINING RM TABLE	34
35	SPARE	20 A	1					0	0	1	20 A	UNIDENTIFIED	36
37	PANTRY 112 REFRIGERATOR	20 A	1	180	180					1	20 A	PANTRY 111 REFRIGERATOR	38
39	DS-1 RM 214	15 A	2			250	180			1	20 A	PANTRY RM 111 FREEZER	40
41	--	--	--					250	0	1	20 A	SPARE	42
			Total Load:	5256 VA		5326 VA		4210 VA					
			Total Amps:	45 A		46 A		35 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3812 VA	110.86%	4226 VA		
Receptacle	10980 VA	95.54%	10490 VA	**Total Conn. Load:**	14792 VA
				Total Est. Demand:	14716 VA
				Total Conn. Current:	41 A
				Total Est. Demand Current:	41 A

Notes:

DLZ
Connect. Build. Thrive.
DLZ Indiana, LLC

MICHAEL S. KRIZMAN, JR. • REGISTERED • PROFESSIONAL ENGINEER • STATE OF INDIANA • No. 12300530 • 07/2026

NO.	REVISION	DATE

DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/EGF
APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

SCHEDULES

DRAWING NUMBER E6.2
ELECTRICAL

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Department_E.rvt
7/1/2026 4:29:05 PM

Branch Panel: F5 EXTG

Location: Space 40
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
EXISTING CIRCUIT ROUTINGS COULD NOT BE FULLY VERIFIED BY AVAILABLE RECORD DRAWINGS AND SITE VISITS.

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	WORKOUT ROOM RECEPTACLES	20 A	1	0	0					1	20 A	QUIET STUDY 201 RECEPTACLES	2
3	WORKOUT ROOM RECEPTACLES	20 A	1			0	0			1	20 A	QUIET STUDY 201 RECEPTACLES	4
5	WORKOUT ROOM RECEPTACLES	20 A	1					0	0	1	20 A	WASHER/DRYER 206	6
7	WORKOUT ROOM RECEPTACLES	20 A	1	0	0					1	20 A	LAUNDRY COUNTER 206	8
9	WORKOUT ROOM RECEPTACLES	20 A	1			0	0			1	20 A	UNIDENTIFIED	10
11	TOILET 208 RECEPTACLE	20 A	1					0	0	1	20 A	UNIDENTIFIED	12
13	TOILET 209 RECEPTACLE	20 A	1	0	0					1	20 A	BED READING LIGHTS	14
15	TOILET 210 RECEPTACLE	20 A	1			0	0			1	20 A	STAIR 205 RECEPTACLE	16
17	MECH. RM. 203 RECEPTACLE	20 A	1					0	0	1	20 A	UNIDENTIFIED	18
19	LOCKER 212 RECEPTACLE	20 A	1	540	0					2	30 A	DRYER	20
21	EF-1	20 A	1			0	0			--	--	--	22
23	MECH. RM. 214 RECEPTACLES	20 A	1					0	0	2	30 A	AC-4, AC-5	24
25	EAVES RECEPTACLES	20 A	1	0	0					--	--	--	26
27	EAVES RECEPTACLES	20 A	1			0	600			2	30 A	WATER HEATER RM 203	28
29	CEILING FANS RM 202	20 A	1					0	0	--	--	--	30
31	LTS STUDY ROOM 201	20 A	1	112	0					1	20 A	UNIDENTIFIED	32
33	UNIDENTIFIED	20 A	1			0	0			1	20 A	UNIDENTIFIED	34
35	SE DORM ELEC HEAT	40 A	2					0	0	1	20 A	UNIDENTIFIED	36
37	--	--	--	0	0					1	20 A	UNIDENTIFIED	38
39	#4 WEST DORM ELEC HEAT	40 A	2			0	0			2	40 A	AC-6, AC-7	40
41	--	--	--					0	0	--	--	--	42
		Total Load:		652 VA		600 VA		0 VA					
		Total Amps:		6 A		6 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA		
Receptacle	540 VA	100.00%	540 VA	**Total Conn. Load:**	1252 VA
				Total Est. Demand:	1252 VA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

Notes:

Branch Panel: F5

Location: Space 40
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating: 225 A

Notes:
NEW

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	WORKOUT ROOM RECEPT	20 A	1	0	540					1	20 A	QUIET STUDY 201 RECEPT	2
3	WORKOUT ROOM RECEPT	20 A	1			0	540			1	20 A	QUIET STUDY 201 RECEPT	4
5	WORKOUT ROOM RECEPT	20 A	1					0	180	1	20 A	WASHER/DRYER 206	6
7	WORKOUT ROOM RECEPT	20 A	1	0	360					1	20 A	LAUNDRY COUNTER 206	8
9	WORKOUT ROOM RECEPT	20 A	1			0	360			1	20 A	RM 203, RM 220 RECEPT	10
11	RM 238 RECEPT	20 A	1					360	360	1	20 A	RM 207, RM 209 RECEPT	12
13	ERHP RM 212, 216, 217, 220	20 A	1	1250	1000					1	20 A	ERHP RM 227, 228, 230, 237	14
15	SAUNA RM 237	20 A	1			180	360			1	20 A	STAIR 205 RECEPTACLE	16
17	MECH RM 218, 236 RECEPT	20 A	1					540	1080	1	20 A	RM 208, RM 211 RECEPT	18
19	RM 204, RM 206 RECEPT	20 A	1	1080	1000					2	30 A	DRYER	20
21	EXHAUST FAN EF-1 & EF-2 [ON ROOF]	15 A	1			612	0			--	--	--	22
23	WATER HEATER RM 218	20 A	1					600	769	2	15 A	VRF & BC	24
25	ERHP RM 203, 207, 209, 210	20 A	1	1000	769					--	--	--	26
27	RM 225, RM 229 RECEPT	20 A	1			1080	600			2	30 A	WATER HEATER RM 236	28
29	CEILING FANS RM 235	20 A	1					0	0	--	--	--	30
31	LTS QUIET ROOM 240	20 A	1	112	1080					1	20 A	RM 219, RM 221 RECEPT	32
33	RM 216, RM 217 RECEPT	20 A	1			360	1080			1	20 A	RM 213, RM 215 RECEPT	34
35	RM 212, RM 210 RECEPT	20 A	1					360	360	1	20 A	RM 222, RM 227 RECEPT	36
37	RM 223, RM 226 RECEPT	20 A	1	1080	360					1	20 A	RM 227, RM 228 RECEPT	38
39	EWC-1 RM 237	20 A	1			180	0			2	30 A	AC-6, AC-7	40
41	RM 214, 224, 237 RECEPT	20 A	1					900	0	--	--	--	42
		Total Load:		9626 VA		5352 VA		5509 VA					
		Total Amps:		80 A		45 A		46 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	44 VA	100.00%	44 VA		
Lighting	112 VA	100.00%	112 VA	**Total Conn. Load:**	20487 VA
Motor	2107 VA	105.41%	2221 VA	**Total Est. Demand:**	19211 VA
Receptacle	12780 VA	89.12%	11390 VA	**Total Conn. Current:**	57 A
Appliance - Dwelling Unit	1000 VA	100.00%	1000 VA	**Total Est. Demand Current:**	53 A
Heating	3850 VA	100.00%	3850 VA		

Notes:

Branch Panel: F6 EXTG

Location: Space 9
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	CONDENSING UNITS	80 A	3	7317	0					3	20 A	SPARE	2
3	--	--	--			7317	0			--	--	--	4
5	--	--	--					7317	0	--	--	--	6
7	SPARE	20 A	3	0	0					3	20 A	EUH-1	8
9	--	--	--			0	0			--	--	--	10
11	--	--	--					0	0	--	--	--	12
13	FLOUR LTS	20 A	1	235	0					1	20 A	SPARE	14
15	FLOUR LTS	20 A	1			388	0			1	20 A	SPARE	16
17	FLOUR LTS	20 A	1					84	0	1	20 A	SPARE	18
19	OUTSIDE LIGHT ABOVE BABYBOX	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
		Total Load:		7531 VA		7683 VA		7397 VA					
		Total Amps:		27 A		28 A		27 A					

Legend:
[1*] = REMOVE BREAKER FROM EXISTING CIRCUIT AND PREPARE CIRCUIT LOCATION FOR NEW.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	21951 VA	100.00%	21951 VA		
Lighting	706 VA	100.00%	706 VA	**Total Conn. Load:**	22610 VA
				Total Est. Demand:	22610 VA
				Total Conn. Current:	27 A
				Total Est. Demand Current:	27 A

Notes:

Branch Panel: F6

Location: Space 9
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 100 A
MCB Rating: 100 A

Notes:
NEW

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	[1*] CONDENSING UNITS	45 A	3	9756	0					3	20 A	SPARE	2
3	--	--	--			9756	0			--	--	--	4
5	--	--	--					9756	0	--	--	--	6
7	SPARE	20 A	3	0	8233					3	50 A	ACC-1	8
9	--	--	--			0	8233			--	--	--	10
11	--	--	--					0	8233	--	--	--	12
13	LIGHTING - EAST FIRST FLOOR	20 A	1	936	0					1	20 A	SPARE	14
15	LIGHTING - EAST SECOND FLOOR	20 A	1			1585	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	OUTSIDE LIGHT ABOVE BABYBOX	20 A	1	0	0					1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1					0	0	1	20 A	SPARE	24
25	SPARE	20 A	1	0	0					1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
		Total Load:		17989 VA		18652 VA		17072 VA					
		Total Amps:		65 A		68 A		62 A					

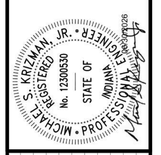
Legend:
[1*] = REMOVE BREAKER FROM EXISTING CIRCUIT AND PREPARE CIRCUIT LOCATION FOR NEW.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	29268 VA	100.00%	29268 VA		
Lighting	2035 VA	100.00%	2035 VA	**Total Conn. Load:**	53712 VA
Motor	24698 VA	125.00%	30873 VA	**Total Est. Demand:**	59552 VA
Other	0 VA	0.00%	0 VA	**Total Conn. Current:**	65 A
Iluminación	690 VA	100.00%	690 VA	**Total Est. Demand Current:**	72 A

Notes:

Autodesk Docs://2563-4069-90 Carmel Fire Department - Station 345 Renovation/4069-90_Carmel Fire Dept_Electrical.rvt
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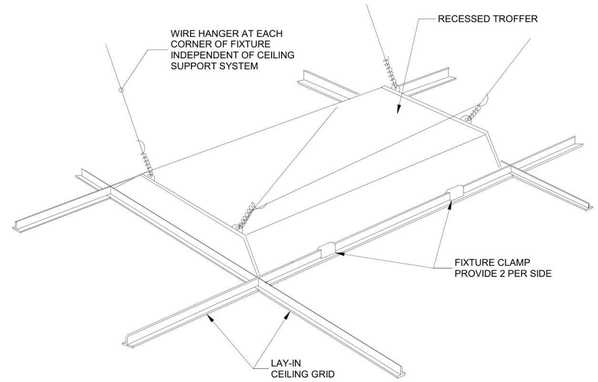
DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/EGF
APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

CARMEL
INDIANA
CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

SCHEDULES

DRAWING NUMBER E6.3

ELECTRICAL



1 TYPICAL RECESSED FIXTURE MOUNTING DETAIL
SCALE: N.T.S.

LIGHTING FIXTURE SCHEDULE

TYPE	LAMP	WATTAGE	VOLTS	DESCRIPTION	MANUFACTURER 1	MANUFACTURER 2	MANUFACTURER 3	TYPE COMMENTS
	LED	20 W	277V	4' LED SURFACE MOUNT STRIP, 3000LM, 3500K CCT, 80CRI	LITHONIA CLX-L48-3000LM-SEF-RDL-MVOLT-EZ1-35K-80CRI	METALUX 4SNX-33SL-LW-UNV-L835-HCD1-U	COLUMBIA MPS4-35-VW-C-EDU	
A1	LED	18 W	277V	2'X2' LAY-IN GRID LED TROFFER, 2000LM, 3500K CCT, UNIVERSAL VOLTAGE	LITHONIA 2BLT2-20L-ADP-GZ10-L835	METALUX 22CZ2-20-UNV-L835-CD1-U	COLUMBIA LCAT22-35-MW-G-ED-U	LAY-IN CEILING GRID
A2	LED	25 W	277V	2'X2' LAY-IN GRID LED TROFFER, 2900LM, 3500K CCT, UNIVERSAL VOLTAGE	LITHONIA 2BLT2-30L-ADP-GZ10-L835	METALUX 22CZ2-29-UNV-L835-CD1-U	COLUMBIA LCAT22-35-LW-G-ED-U	LAY-IN CEILING GRID
C1	LED	40 W	277V	2' LED SURFACE MOUNT STRIP, 3300LM, 3500K CCT, 80CRI	LITHONIA CLX-L24-3500LM-SEF-RDL-MVOLT-GZ10-35K-80CRI	METALUX 2SNLED-LD5-32SL-UNV-L835	COLUMBIA MPS2-35-MW-C-EDU	WALL MOUNTED
C2	LED	13 W	277V	4' LED STRIP, 2000LM, 35000K CCT, 80 CRI	LITHONIA CSS-L48-AL03-MVOLT-MIN10-ZT-35K-80CRI; HC36M12	METALUX 4SNLED-LD5-20SL-UNV-L835-CD1-U	COLUMBIA MPS4-35-XW-C-EDU	SUSPENDED MOUNT ON HANGER CHAIN
D1	LED	6 W	277V	6" DIA LED DOWNLIGHT, 750 LUMENS, 35K COLOR, 80 CRI, CLEAR, SEMI-SPECULAR FINISH, WIDE DISTRIBUTION	GOTHAM EVO6-35/07-AR-WD-LSS-MVOLT-GZ10-TRW	PORTFOLIO LD6C089035D010-EU6C0208IC9035-6LBW1H-HB26	PRESCOLITE LFCR-6D-MN-05L35K9-WD-DM1	FLUSH MOUNT IN HARD CEILING
D2	LED	10 W	277V	6" DIA LED DOWNLIGHT, 1000 LUMENS, 3500K, CLEAR, SEMI-SPECULAR FINISH, WIDE DISTRIBUTION	GOTHAM EVO6-35/10-AR-WD-LSS-MVOLT-GZ10-TRW	PORTFOLIO LD6C109035D010-EU6C10259035-6LBW1H-HB26	PRESCOLITE LFCR-6D-MN-10L35K9-WD-DM1	FLUSH MOUNT IN CEILING TILE OR HARD CEILING AS INDICATED
D3	LED	6 W	277V	6" DIA LED DOWNLIGHT, 750 LUMENS, 35K COLOR, 80 CRI, CLEAR, SEMI-SPECULAR FINISH, WIDE DISTRIBUTION	GOTHAM EVO6-35/07-AR-WD-LSS-MVOLT-GZ10-TRW	PORTFOLIO LD6C050935D010-EU6C0208IC9035-6LBPS1MW-HB26-LGSKT6IP66	PRESCOLITE LFR-6RD-M-10L35K8-WD-DM1	FLUSH MOUNT IN HARD CEILING
E1	LED	7 W	277V	LED EMERGENCY TWIN-HEAD UNIT, 90 MINUTE NICKLE CADMIUM BATTERY BACKUP, WHITE FINISH, 640 LUMENS	LITHONIA ELM4L-UVOLT	COOPER SEL60R4SD	DUAL-LITE EVHC-6-06L	WALL MOUNTED
G1	LED	0 W	277V	RECESSED WALL MOUNT STEPLIGHT, TYPE 304 SS FACEPLATE, ACRYLIC LENS, 4000K CCT	KENALL MSL-F-1-XX-T-WHL-277-3	LC DOANE STPW-SAW-VARDM-12/30-PH	NEW STAR LIGHTING HNL-OF-40-80C-UN-NF-AM	RECESS MOUNTED IN WALL
J1	LED	9 W	277V	24" LED UNDERCABINET FIXTURE, WHITE FINISH, 3500K CCT	LITHONIA UCES-24IN-SWW5-90CRI-WH-M6	COOPER HU30MSCTD24P	COLUMBIA CUC2-CS-ED120	MOUNT TO UNDERSIDE OF CABINET
K1	LED	90 W 2 W	277V	24" ULTRA-THIN EDGE-LIT VANITY FIXTURE, DIRECT/INDIRECT, 3500K CCT, 1200 LUMENS, FINISH BY ARCHITECT	VERSALED LIGHTING VS53-AF-20L-120V-30K-XX	VISUAL COMFORT & CO 700BCSPAN-B-2-X-LED935-277	APPROVED EQUAL	WALL MOUNTED ABOVE VANITY MIRROR
L1	LED	4 W	277V	LED ORIENTABLE WALL MOUNTED LAMP, 200 LUMEN, 2700K CCT, 90CRI, AUTOMATIC ON WHEN OPEN AND OFF WHEN FOLDED AWAY	MODERN FORMS BL-26509-XX	MARSET LEDTUBE MINI A622-221-XX-27K	FARO CRONOS	WALL MOUNTED
X1	LED		277V	POLYCARBONATE LED EXIT SIGN, GREEN LETTERS, AC WITH INTERNAL 90 MINUTE BATTERY BACKUP, SILVER HOUSING, SINGLE AND/OR DOUBLE FACE MOUNTED TO CEILING OR END.	LITHONIA LQM-S-BBS-RG-MVOLT	SURE-LITES CX7XSD-G	NEW STAR LIGHTING HNL-OF-40-80C-UN-NF-AM	ARROWS AS INDICATED

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DLZ Indiana, LLC

MICHAEL S. KRIZMAN, JR. • REGISTERED PROFESSIONAL ENGINEER • No. 12300530 • STATE OF INDIANA • 07/01/2026

NO.	REVISION	DATE

DRAWN: HLN | CHK'D: MSK
DESIGNED: HLN/EGF
APPRV'D: MSK
DATE: JUNE 30, 2026
PROJECT NUMBER 2563-4069-90

INDIANA
CARMEL — CITY OF CARMEL
CARMEL FIRE DEPARTMENT STATION NO. 45 RENOVATION

SCHEDULES & DETAILS

DRAWING NUMBER E6.4

ELECTRICAL

City of Carmel

Renovation of Station 46

540 W. 136th St. Carmel, IN 46032

ISSUED FOR CONSTRUCTION
8/14/2026



DRAWING INDEX

ARCHITECTURAL

Sheet Number	NAME
A001	GENERAL INFORMATION
A002	FIRE & LIFE SAFETY PLANS
AD101	FIRST FLOOR DEMOLITION PLANS
AD102	SECOND FLOOR DEMOLITION PLANS
A100	OVERALL PLANS
A101	FIRST FLOOR PLAN
A102	SECOND FLOOR PLAN
A103	CEILING PLAN - FIRST
A104	CEILING PLAN - SECOND
A401	LARGE SCALE VIEWS
A402	LARGE SCALE VIEWS
A403	LARGE SCALE VIEWS
A501	DETAILS
A600	DOOR & WINDOW SCHEDULES, ELEVATIONS
A601	ROOM FINISH SCHEDULE

MECHANICAL

Sheet Number	NAME
M001	MECHANICAL SYMBOLS AND ABBREVIATIONS
M101	FIRST FLOOR MECHANICAL DEMOLITION PLAN
M111	SECOND FLOOR MECHANICAL DEMOLITION PLAN
M301	FIRST FLOOR MECHANICAL PLAN
M311	SECOND FLOOR MECHANICAL PLAN
M312	SECOND FLOOR PIPING PLAN
M401	FIRST FLOOR ENLARGED PIPING PLAN
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
ME701	HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES
ME702	HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES

PLUMBING

Sheet Number	NAME
P001	PLUMBING SYMBOLS AND ABBREVIATIONS
P100	UNDERSLAB PLUMBING DEMOLITION FLOOR PLAN
P101	FIRST FLOOR PLUMBING DEMOLITION FLOOR PLAN
P111	SECOND FLOOR PLUMBING DEMOLITION FLOOR PLAN
P300	UNDERSLAB PLUMBING FLOOR PLAN
P301	FIRST FLOOR PLUMBING FLOOR PLAN
P311	SECOND FLOOR PLUMBING FLOOR PLAN
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P701	PLUMBING DIAGRAMS

FIRE PROTECTION

Sheet Number	NAME
FP001	FIRE PROTECTION SYMBOLS AND ABBREVIATIONS
FP101	FIRST FLOOR FIRE PROTECTION DEMOLITION
FP111	SECOND FLOOR FIRE PROTECTION DEMOLITION
FP301	FIRST FLOOR FIRE PROTECTION FLOOR PLAN
FP311	SECOND FLOOR FIRE PROTECTION FLOOR PLAN

ELECTRICAL

Sheet Number	NAME
E001	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E101	FIRST FLOOR ELECTRICAL DEMOLITION FLOOR PLAN
E102	SECOND FLOOR ELECTRICAL DEMOLITION FLOOR PLAN
E301	FIRST FLOOR LIGHTING FLOOR PLAN
E302	SECOND FLOOR LIGHTING FLOOR PLAN
E311	FIRST FLOOR POWER AND SYSTEMS FLOOR PLAN
E312	SECOND FLOOR POWER AND SYSTEMS FLOOR PLAN
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES
E701	ELECTRICAL DIAGRAMS

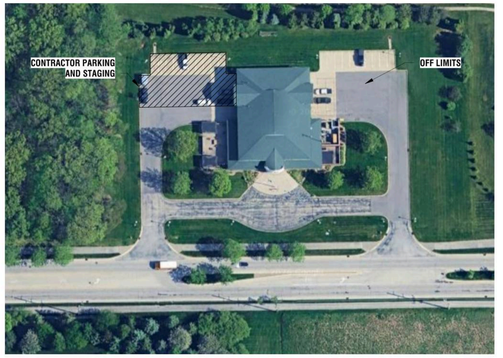
TECHNOLOGY

Sheet Number	NAME
T000	SYMBOLS AND ABBREVIATIONS
TD101	TECHNOLOGY FIRST FLOOR DEMOLITION
TD102	TECHNOLOGY SECOND FLOOR DEMOLITION
T101	TECHNOLOGY FIRST FLOOR PLAN
T102	TECHNOLOGY SECOND FLOOR PLAN
T501	TECHNOLOGY DETAILS
T502	TECHNOLOGY DETAILS

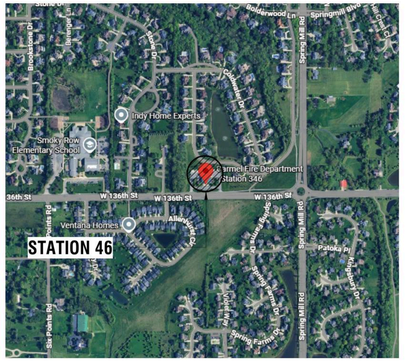
LOCUTION SYSTEM

Sheet Number	NAME
----	LOCUTION SYSTEM DESIGN BY ERS FOR REFERENCE ONLY

STAGING MAP



VICINITY MAP



Technology Engineer:

kbso CONSULTING

Mechanical, Electrical, Plumbing Engineer:

Applied
Engineering Services
5975 Castle Creek Parkway N Drive, Suite 300 • Indianapolis, Indiana 46250
Tel: 317.810.4141 • Fax: 317.810.4140 • www.applied-e-s.com

Architect, Civil Engineer:

Etica GROUP

Etica Group, Inc.

8720 Castle Creek Parkway East Drive, Suite 400
Indianapolis, IN 46250
(317) 466-9520
www.eticagroup.com

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

TOBY J. WINGER
REGISTERED
No. AR10300002
STATE OF INDIANA
ARCHITECT
1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE:

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/2026	ERS	TLG

DRAWING TITLE:
COVER

SHEET NUMBER:
G001

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Room Schedule

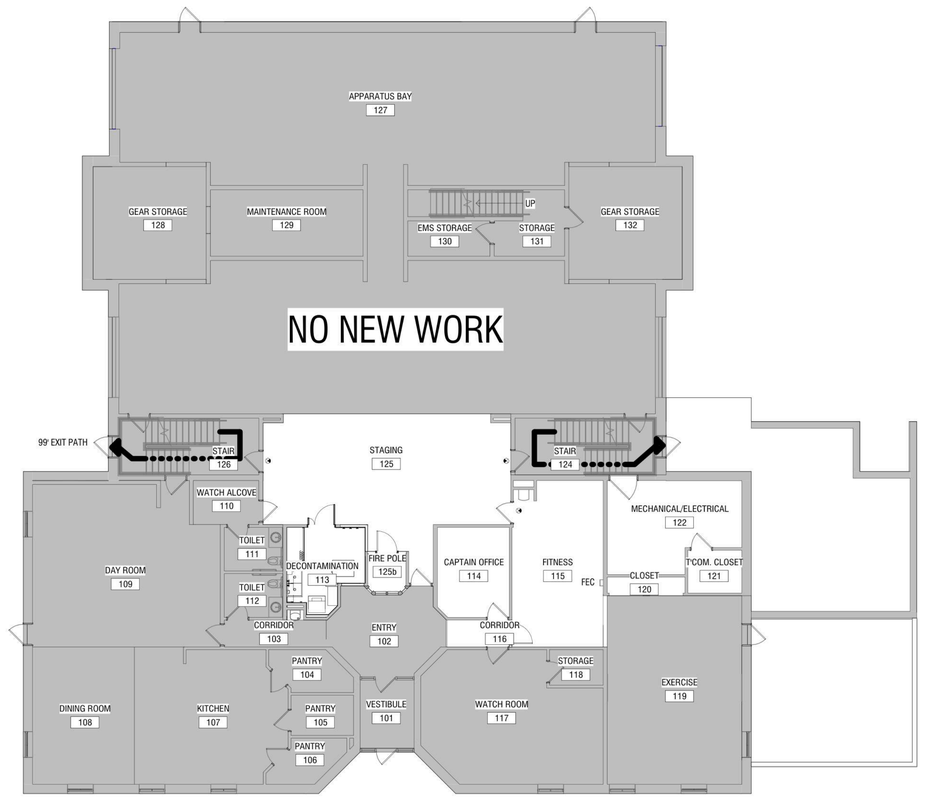
Name	Number	Area	Occupancy	Occupant	Level
LEVEL 1					
VESTIBULE	101	87 SF	100	1	LEVEL 1
ENTRY	102	194 SF	100	1	LEVEL 1
CORRIDOR	103	64 SF	100	1	LEVEL 1
PANTRY	104	65 SF	300	1	LEVEL 1
PANTRY	105	56 SF	300	1	LEVEL 1
PANTRY	106	59 SF	300	1	LEVEL 1
KITCHEN	107	434 SF	15	28	LEVEL 1
DINING ROOM	108	310 SF	15	20	LEVEL 1
DAY ROOM	109	649 SF	15	43	LEVEL 1
WATCH ALCOVE	110	64 SF	100	1	LEVEL 1
TOILET	111	57 SF	100	1	LEVEL 1
TOILET	112	57 SF	100	1	LEVEL 1
DECONTAMINATION	113	125 SF	100	1	LEVEL 1
CAPTAIN OFFICE	114	142 SF	100	1	LEVEL 1
FITNESS	115	330 SF	50	6	LEVEL 1
CORRIDOR	116	37 SF	100	1	LEVEL 1
WATCH ROOM	117	473 SF	100	4	LEVEL 1
STORAGE	118	42 SF	100	1	LEVEL 1
EXERCISE	119	568 SF	50	11	LEVEL 1
CLOSET	120	29 SF	300	1	LEVEL 1
T'COM. CLOSET	121	51 SF	300	1	LEVEL 1
MECHANICAL/ELECTRICAL	122	246 SF	300	1	LEVEL 1
STAIR	124	177 SF			LEVEL 1
STAGING	125	657 SF	300	2	LEVEL 1
FIRE POLE	125b	31 SF	100	1	LEVEL 1
STAIR	126	176 SF			LEVEL 1
APPARATUS BAY	127	3509 SF	300	11	LEVEL 1
GEAR STORAGE	128	283 SF	300	1	LEVEL 1
MAINTENANCE ROOM	129	225 SF	300	1	LEVEL 1
EMS STORAGE	130	64 SF	300	1	LEVEL 1
STORAGE	131	152 SF	300	1	LEVEL 1
GEAR STORAGE	132	284 SF	300	1	LEVEL 1

Room Schedule

Name	Number	Area	Occupancy	Occupant	Level
LEVEL 2					
BEDROOM	001	94 SF	200	1	LEVEL 2
BEDROOM	002	94 SF	200	1	LEVEL 2
BEDROOM	003	124 SF	200	1	LEVEL 2
BEDROOM	004	98 SF	200	1	LEVEL 2
BEDROOM	005	94 SF	200	1	LEVEL 2
BEDROOM	006	94 SF	200	1	LEVEL 2
BEDROOM	007	94 SF	200	1	LEVEL 2
BEDROOM	008	98 SF	200	1	LEVEL 2
BEDROOM	009	124 SF	200	1	LEVEL 2
BEDROOM	010	94 SF	200	1	LEVEL 2
BEDROOM	011	94 SF	200	1	LEVEL 2
STORAGE	027	13 SF	300	1	LEVEL 2
UNISEX RR	028	73 SF	100	1	LEVEL 2
MOTHER'S ROOM	029	49 SF	100	1	LEVEL 2
QUIET ROOM	030	330 SF	15	19	LEVEL 2
MECHANICAL	031	81 SF	300	1	LEVEL 2
VESTIBULE	032	46 SF	100	1	LEVEL 2
CORRIDOR	033	474 SF	100	5	LEVEL 2
VESTIBULE	034	43 SF	100	1	LEVEL 2
WOMEN'S LOCKERS	035	172 SF	100	1	LEVEL 2
WOMEN'S RR	036	52 SF	100	1	LEVEL 2
WOMEN'S SHOWER	037	63 SF	100	1	LEVEL 2
MEN'S RR	038	160 SF	100	1	LEVEL 2
MEN'S SHOWER	039	108 SF	100	1	LEVEL 2
MEN'S LOCKERS	040	467 SF			LEVEL 2
JANITOR'S	041	39 SF	300	1	LEVEL 2
STORAGE	217	868 SF	300	3	LEVEL 2
Grand total: 59		13840 SF		201	

2 A002 SECOND FLOOR PLAN
3/32" = 1'-0" REF:2/A401

N



1 A002 FIRST FLOOR PLAN
3/32" = 1'-0" REF:3/A403

N

CODE SUMMARY

- 2012 INTERNATIONAL BUILDING CODE W/ 2014 INDIANA AMENDMENTS
- 2010 INDIANA ENERGY CONSERVATION CODE (ASHRAE 90.1-2007)
- 2006 INTERNATIONAL PLUMBING CODE W/ 2012 INDIANA AMENDMENTS
- 2008 NATIONAL ELECTRIC CODE W/ 2009 INDIANA AMENDMENTS
- 2012 INTERNATIONAL MECHANICAL CODE W/ 2014 INDIANA AMENDMENTS
- 2012 INTERNATIONAL FIRE CODE W/ 2014 INDIANA AMENDMENTS

PROJECT LOCATION:
540 W. 136th ST.
CARMEL, IN 46032

PROJECT SCOPE:

CARMEL FIRE DEPARTMENT STATION 46 IS BEING RENOVATED TO PROVIDE INDIVIDUAL SLEEPING ROOMS AND ASSOCIATED UPGRADES ON THE SECOND FLOOR AND NEW DECONTAMINATION FACILITIES ON THE FIRST FLOOR.

OCCUPANCY CLASSIFICATION:
BUSINESS GROUP B - FIRE STATION (SECTION 304.1)

CONSTRUCTION TYPE:
TYPE V-B (SECTION 602.5)
ALLOWABLE AREA (PER STORY): (SECTION 506.1)
TABULAR AREA: 9,000 SF (TABLE 503)
FRONTAGE INCREASE: 6,750 SF (SECTION 506.2)
SPRINKLER INCREASE: 18,000 SF (SECTION 506.3)
TOTAL ALLOWABLE: 33,750 SF

TOTAL BUILDING SF: 11,390 SF 1ST FLOOR
5,125 SF 2ND FLOOR & MEZZANINE
16,515 SF TOTAL

ALLOWABLE HEIGHT AND STORIES:
TWO-STORIES PERMITTED FOR BUILDINGS OF GROUP B OCCUPANCY AND TYPE V-B CONSTRUCTION. FACILITY IS TWO-STORY.

BUILDING ELEMENTS, FIRE RESISTIVE REQUIREMENTS (SECTION 602.5)

STRUCTURAL FRAME 0 HRS(TABLE 601 & 602)
BEARING WALLS
EXTERIOR 0 HRS
INTERIOR 0 HRS
NONBEARING WALLS / PARTITIONS EXTERIOR 0 HRS
NONBEARING WALLS / PARTITIONS INTERIOR 0 HRS
FLOOR CONSTRUCTION 0 HRS
ROOF CONSTRUCTION 0 HRS

FIRE WALLS:
A FIRE WALL IS NOT REQUIRED SINCE THE ACTUAL AREA IS LESS THAN THE ALLOWABLE AREA.

FIRE BARRIERS:
STAIRWAYS ARE NOT REQUIRED TO BE ENCLOSED (SECTION 1009.3 EXCEPTION 4)

FIRE PARTITIONS:
NONE REQUIRED.

NON-RELATED INCIDENTAL USE SEPERATION: NOT REQUIRED (TABLE 509)

CORRIDORS: 0-HR (TABLE 1012.1)

DEADEND CORRIDOR: 50' MAX (1018.4 EXCEPTION 2)

COMMON PATH OF EGRESS: 100' MAX (TABLE 1014.3)

EXIT ACCESS TRAVEL DISTANCE: 300' MAX

AUTOMATIC SPRINKLER REQUIREMENTS:
THE EXISTING BUILDING IS SPRINKLERED.

AREA OF REFUGE
AREA OF REFUGE IS NOT REQUIRED (SECTION 1007.3 EXCEPTION 2)

PLUMBING FIXTURE COUNT
159 MEN (75%)
5 WC REQUIRED / 4 WC & 3 URINALS PROVIDED
3 LAVS REQUIRED / 4 LAVS PROVIDED

53 WOMEN (25%)
3 WC / 4 WC PROVIDED (INCLUDING UNISEX RR)
2 LAVS / 4 LAVS PROVIDED (INCLUDING UNISEX RR)

3 DF REQUIRED / 2 DF PROVIDED PLUS ACCESS TO DRINKING WATER IN KITCHEN
1 SS REQUIRED / 1 SS PROVIDED

LIFE SAFETY NOTES

A. FIRE EXTINGUISHERS: EXISTING FIRE EXTINGUISHER CABINETS AND EXTINGUISHERS ARE TO REMAIN IN EXISTING LOCATIONS

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

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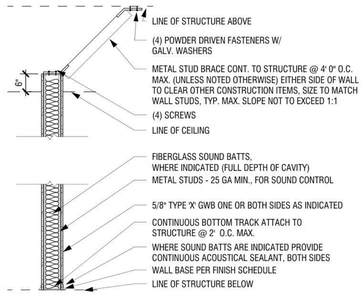
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FIRE & LIFE SAFETY PLANS

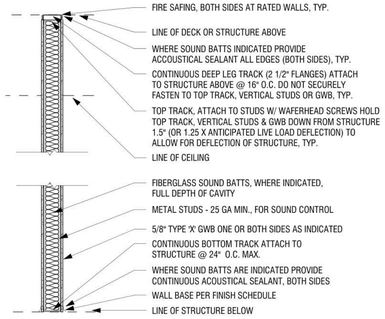
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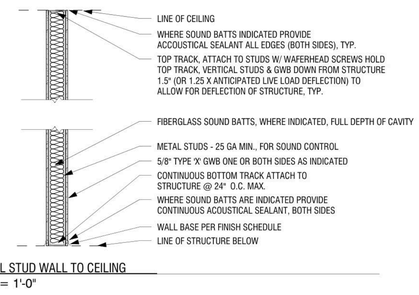
TYPE	PARTITION WIDTH	CORE SIZE	MAX. STUD SPACING O.C.	ACCOUSTIC RATING	FIRE RATING	UL NUMBER	REMARKS
S3A	4 7/8"	3 5/8"	24" O.C.	47 STC	1 HR	U465	
S3B	4 1/4"	3 5/8"	24" O.C.	---	---	---	
S3C	6 1/8"	3 5/8"	24" O.C.	56 STC	2 HR	U411	
S3D	4 7/8"	3 5/8"	24" O.C.	47 STC	1 HR	U465	MOISTURE RESISTANT GWB
S3E	4 7/8"	3 5/8"	24" O.C.	47 STC	1 HR	U465	MOISTURE RESISTANT GWB
S3F	4 1/4"	3 5/8"	24" O.C.	---	---	---	MOISTURE RESISTANT GWB
S6A	6 7/8"	5 5/8"	24" O.C.	49 STC	1 HR	U465	



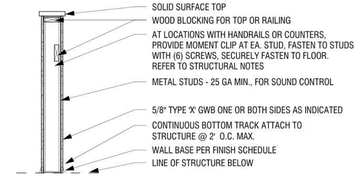
2 A001 STEEL STUD WALL PARTIAL HEIGHT
1/2" = 1'-0"



1 A001 STEEL STUD WALL FULL HEIGHT
1/2" = 1'-0"

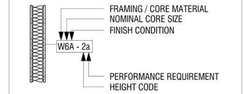


5 A001 STEEL STUD WALL TO CEILING
1/2" = 1'-0"



4 A001 STEEL STUD WALL AS INDICATED
1/2" = 1'-0"

PARTITION DESIGNATION



FRAMING/CORE MATERIAL	FINISH CONDITION
C – CAST IN PLACE E – ENGINEERED METAL BUILDING G – GLASS WALL M – MASONRY P – PRE-CAST S – STEEL W – WOOD	A – 1 LAYER GYP EACH SIDE B – GYP ON ONE SIDE C – 2 LAYERS GYP EACH SIDE D – BACK TO BACK WET WALL E – SINGLE LOAD WET WALL F – SEE REMARKS G – SEE REMARKS H – SEE REMARKS
HEIGHT CODE	**PERFORMANCE REQUIREMENT**
1 – 6" ABOVE CEILING 2 – TO DECK 3 – TO CEILING 4 – AS INDICATED 5 – SEE NOTES	a – ACOUSTIC ASSEMBLY b – PENETRATION RESISTANT c – SHAFT WALL d – DAMAGE RESISTANT e – EPOXY COATED f – FIRE RATED g – FOIL FACED GYPSUM h – SEE REMARKS

WALL TYPE NOTES

1. WALL TYPES DO NOT INCLUDE WALL FINISHES. SEE ROOM FINISH SCHEDULE FOR FINISH INFORMATION.

2. COORDINATE RATING REQUIREMENTS INDICATED ON SPECIFIC PARTITIONS WITH LIFE SAFETY PLAN.

3. ALL ACCOUSTIC AND FIRE RATED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH TESTING AGENCY REQUIREMENTS. REFER TO SPECIFIC TEST REPORTS FOR REQUIRED COMPONENTS AND ASSEMBLY. SEE WALL TYPE REFERENCES AND LIFE SAFETY SHEETS FOR RATED WALL LOCATIONS. PROVIDE STOPPING PER MANUFACTURE'S RECOMMENDATIONS FOR PENETRATIONS THROUGH RATED WALLS.

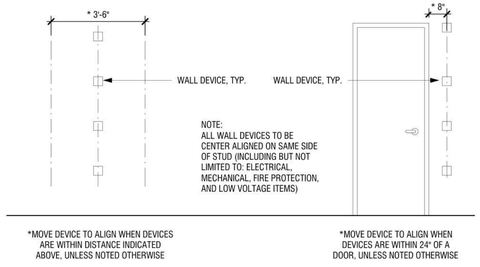
4. ALL INTERIOR WALLS WHERE SOUND BATT INSULATION IS INDICATED ARE CONSIDRED ACOUSTIC WALLS. WHERE SPECIFIC STC RATINGS ARE REQUIRED SEE INDIVIDUAL WALL TYPE PARTITIONS.

5. AT STUD WALLS WHICH DO NOT EXTEND TO STRUCTURE, PROVIDE BRACING 4'-0" O.C. AND AT CENTERLINE OF DOOR OPENINGS.

6. PROVIDE WOOD BLOCKING AT TOP AND BOTTOM OF CABINETS. COORDINATE HEIGHTS WITH CASEWORK ELEVATIONS.

7. AT STUD WALLS, WOOD BLOCKING IS REQUIRED AT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO THE FOLLOWING LOCATIONS:
   A. WALL MOUNTED COUNTERS AND COUNTERTOP SUPPORTS.
   B. WALL MOUNTED ACCESSORIES AND EQUIPMENT
   C. WALL MOUNTED DOORSTOPS
   D. WALL MOUNTED DOOR HOLD OPEN DEVICES AND/OR CLOSERS
   E. TOILET ROOM PARTITIONS AND ACCESSORIES
   F. WALL MOUNTED TV'S AND BRACKETS
   G. OTHER LOCATIONS AS REQUIRED BY THE ARCHITECT AND INDUSTRY STANDARDS.

8. INSTALL BLOCKING BETWEEN EXISTING STRUCTURAL MEMBERS TO ALLOW PROPER ATTACHMENT OF NEW PARTITIONS TO STURCTURE ABOVE.



7 A001 DEVICE LOCATION DIAGRAM
3/8" = 1'-0"

ABBREVIATIONS

ABD	ABANDONED
AC	AIR CONDITIONING
A/E	ASPHALT EMULSION
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ASPH	ASPHALT
BOT	BOTTOM
BD	BOARD
BRLG	BASE FLASHING
BIT	BITUMINOUS
BJT	BED JOINT
BLDG	BUILDING
BLK	BLOCK
BRG	BEARING
BS	BOTH SIDES
BUR	BUILT UP ROOFING
BRK	BRICK
C/C	CENTER TO CENTER
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER FLASHING
CO	CLEAN OUT
COL	COLUMN
COORD	COORDINATE
CONC	CONCRETE
CONT	CONTINUOUS or CONTINUED
CONTR	CONTRACTOR
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DTL	DETAIL
DWG	DRAWING
EF	EXHAUST FAN
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION or ELEVATOR
ENG	ENGINEER
EP	ELECTRICAL PANEL
ETC	ETCETERA
EST	ESTIMATE
EXG	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FB	FACE BRICK
FD	FLOOR DRAIN
FIN	FINISHED
FLG	FLASHING
FSR	FLEXIBLE SHEET ROOFING
FLR	FLOOR
FP	FALL PROTECTION
FT	FOOT or FEET
GA	GAUGE
GALV	GALVANIZED
GB	GLASS BLOCK
GC	GENERAL CONTRACTOR
GL	GLASS
GR	GRADE
GRV	GRAVITY ROOF VENT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HGT	HEIGHT
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORZ	HORIZONTAL
HVAC	HEATING, VENTILATING, AIR CONDITIONING
IN	INCH
INFO	INFORMATION
INSUL	INSULATION
JT	JOINT
LAM	LAMINATED
LBS	POUNDS
LFT	LINEAR FOOT
LVR	LOUVER
LWC	LIGHT WEIGHT CONCRETE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBR	MODIFIED BITUMEN ROOFING
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MRD	METAL ROOF DECK
MTD	MOUNTED
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OH	OVERHEAD
OPNG	OPENING
PT	PAINT
PCC	PRE-CAST CONCRETE
PERP	PERPENDICULAR
PL	PLATE
PLAS	PLASTIC
PLBG	PLUMBING
PWD	PLYWOOD
PREFAB	PREFABRICATED
PROJ	PROJECT
PSI	POUNDS PER SQUARE INCH
PP	PIPE PENETRATION
PS	PIPE SEAL
PV	PLUMBING VENT
PVC	POLY VINYL CHLORIDE
QTY	QUANTITY
RC	ROOF CORE
RD	ROOF DRAIN
RE	REFER TO
REINF	REINFORCING
REQD	REQUIRED
RFG	ROOFING
RS	ROOF SUMP
RV	RELIEF VENT
REV	REVISION
SATT	SATELLITE DISH
SC	SCUPPER
SD	STORM DRAIN
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
T&G	TONGUE & GROOVE
TEMP	TEMPERATURE
TERM	TERMINATION
THK	THICK or THICKNESS
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TO	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UNF	UNFINISHED
UTIL	UTILITY
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VR	VAPOR RETARDER
VERT	VERTICAL
VIF	VERIFY IN FIELD

GENERAL PROJECT NOTES

A. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL BUILDING CODES. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE CURRENT APPLICABLE BUILDING CODE(S) FOR THEIR RESPECTIVE SCOPE OF WORK.

B. CONTRACTOR(S) SHALL VISIT THE WORK SITE PRIOR TO COMMENCEMENT. THE DRAWINGS CONTAINED HEREIN MAY NOT BE ALL INCLUSIVE OF EXISTING CONDITIONS OR NEW WORK REQUIREMENTS. CONTRACTOR(S) SHALL MAKE THEMSELVES FAMILIAR WITH THE WORK SITE IN THE FIELD IN ORDER TO BE FULLY AWARE OF THE REQUIREMENTS OF THE SCOPE OF WORK.

C. FIELD VERIFY ALL DIMENSIONS AND MEASUREMENTS. INFORM THE GENERAL CONTRACTOR BEFORE BEGINNING ANY CONSTRUCTION IF EXISTING CONDITIONS PREVENT OBTAINING RESULTS AS SHOWN OR SPECIFIED. DO NOT SCALE DRAWINGS. NOTED DIMENSIONS TAKE PRECEDENCE.

D. VERIFY EXISTING CONDITIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCY THROUGH THE GENERAL CONTRACTOR TO ETICA GROUP, INC.

E. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING ALL ON-SITE ACTIVITIES; SUCH AS, BUT NOT LIMITED TO, WORK SCHEDULE, MATERIALS STORAGE AND HANDLING, DELIVERIES, ACCESS TO THE WORK SITE, TRAFFIC CONTROL, AND BUILDING/PUBLIC SAFETY PROCEDURES DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE WORK "BY OTHERS" WITH HIS/HER OWN ACTIVITIES AS NECESSARY TO EXECUTE THE OVERALL PROJECT SCOPE.

F. FOR THOSE ITEMS TO BE ORDERED REQUIRING LEAD TIME, THE CONTRACTOR SHALL COORDINATE THE PROJECT SCHEDULE ACCORDINGLY AND COMMUNICATE TO THE OWNER AND ETICA GROUP WHEN DECISIONS MUST BE RENDERED IN ORDER FOR THE CONTRACTOR TO MEET THE PROJECT SCHEDULE. NEITHER THE OWNER NOR ARCHITECT IS RESPONSIBLE FOR DELAYS RESULTING FROM THE CONTRACTOR'S FAILURE TO COMMUNICATE MATERIAL LEAD TIMES.

G. SUBSTITUTIONS FOR SPECIFICALLY NAMED PRODUCTS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE DESIGNER. SUBMIT REQUESTS FOR SUBSTITUTIONS WITH APPROPRIATE SUPPORT INFORMATION TO THE DESIGNER. ALLOW REASONABLY SUFFICIENT TIME FOR THE DESIGNER TO REVIEW THE REQUEST AND RENDER A DECISION.

H. ETICA GROUP, INC., SHALL NOT HAVE CONTROL OVER, OR BE IN CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR A CONTRACTOR'S CONSTRUCTION MEANS, METHODS, SCHEDULES, SEQUENCES, OR SAFETY. THE CONTRACTORS SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE ENVIRONMENT FOR WORKERS AND THE PUBLIC AT ALL TIMES.

I. THE GENERAL CONTRACTOR SHALL ESTABLISH WITH THE OWNER CLEANUP PROCEDURES AND GUIDELINES TO BE FOLLOWED ON A DAILY BASIS IN ORDER TO CONDUCT BUSINESS IN A SAFE AND CLEAN ENVIRONMENT.

J. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, AN AREA FOR STAGING OF CONSTRUCTION MATERIALS, EQUIPMENT, DUMPSTER AND PARKING CONSTRUCTION AND DELIVERY VEHICLES. THE USE OF EXISTING REST ROOM FACILITIES SHALL BE APPROVED BY THE OWNER. ONLY THOSE DESIGNATED AREAS SHALL BE USED BY CONSTRUCTION CREWS.

K. THE GENERAL CONTRACTOR SHALL USE DUST PARTITIONS TO MINIMIZE DISTURBANCES OF DAILY OPERATIONS DURING DEMOLITION AND CONSTRUCTION WORK. DUST PARTITIONS SHALL BE CONSTRUCTED OF 2X4 WOOD STUDS @ 24"O.C., INSULATION AND 6 MIL VAPOR BARRIER ON EACH SIDE.

L. CONTACT THE DESIGNER IMMEDIATELY IF, IN THE FIELD, CONFLICTS ARE DISCOVERED BETWEEN COMPONENTS OF DIFFERENT SYSTEMS THAT PREVENT THE INSTALLATION OF THOSE COMPONENTS AS INDICATED ON THE DRAWINGS. (I.E. WHERE EXISTING MECHANICAL DUCTWORK MAY PREVENT THE INSTALLATION OF LIGHTING FIXTURES AS INDICATED ON THE CEILING PLAN).

M. SHOP DRAWINGS OR CATALOG CUTS MUST BE SUBMITTED TO ETICA GROUP, INC. FOR APPROVAL ON ALL MATERIALS OR ITEMS WHERE THE CONTRACTOR CHOOSES TO DEVIATE FROM WHAT IS SHOWN ON THE DRAWINGS, OR IF THE DRAWINGS DO NOT INDICATE A SPECIFIC MANUFACTURER OR MODEL NUMBER.

N. EXPEDITE PREPARATION AND SUBMITTAL OF ALL SHOP DRAWINGS TO ALLOW SUFFICIENT TIME FOR CHECKING, APPROVAL, ORDERING, FABRICATION, AND DELIVERY OF MATERIALS AND EQUIPMENT.

REGION TYPES

CONCRETE
MORTAR
BRICK
CONCRETE BLOCK
ALUMINUM
STEEL / METAL
WOOD
WOOD BLOCKING / HEAVY TIMBER
PLYWOOD
BATT INSULATION
RIGID INSULATION
SOLID SURFACE / PLASTIC
SAND, GYPSUM, OR AS NOTED
EARTH
GRANULAR FILL

SYMBOLS

Ref 1 A101 — SECTION HEAD OPEN
Ref 1 A101 — SECTION HEAD NO ARROW
Ref 1 A101 — SECTION HEAD FILLED
Name Elevation — LEVEL HEAD
0 — GRID HEAD
1 A101 — ELEVATION MARK BODY EXTERIOR
A101 A101 A101 A101 — ELEVATION MARK BODY INTERIOR
99 A199.9 VIEW NAME 1/8" = 1'-0"? REF:R/R101 — VIEW TITLE

TAGS

AREA NAME 150 — AREA TAG
CEIL-1 — CEILING TAG
XXX — DOOR TAG
? — MATERIAL TAG
W12A — WALL TAG
R1 — REVISION TAG
1t — WINDOW TAG
Xt — MULTI-CATEGORY TAG (TYPE MARK)
ROOM NAME 101 ROOM NUMBER — ROOM TAG
Name 111 OCCUPANT LOAD; 101 ROOM NUMBER; 150 SF ROOM AREA — LIFE SAFETY TAG
ROOM NAME 101 ROOM NUMBER; FLOR-1 FLOOR FINISH; BS-1/WL-1 WALL FINISH; BASE FINISH — ROOM FINISH TAG
NAME REPLACED — ROOM PRESENTATION TAG
99 20" / Y 32" — ACTUAL LOAD; REQUIRED EGRESS WIDTH; ACTUAL EGRESS WIDTH; EGRESS CAPACITY — EGRESS TAG

OTHER SYMBOLS

N — NORTH ARROW
SPOT ELEVATION
CENTERLINE
1 — PLAN NOTE

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINGER REGISTERED No AR10300002 STATE OF INDIANA ARCHITECT 7-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

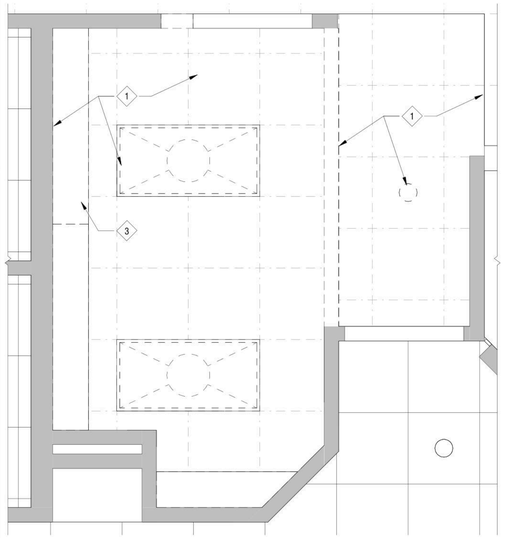
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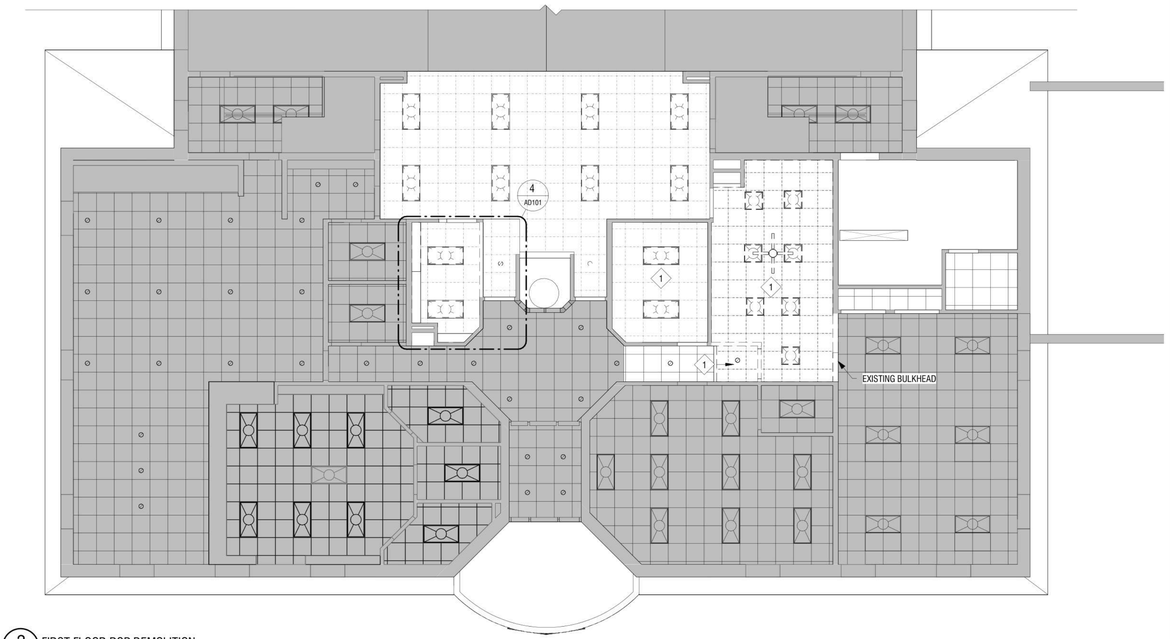
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SHEET NUMBER:
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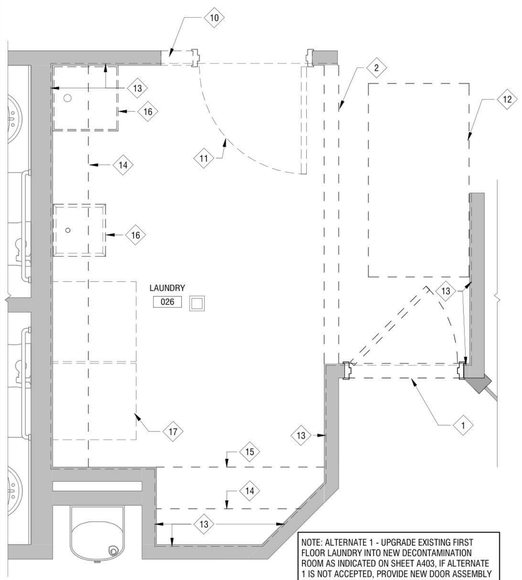
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4 AD101 RCP DEMOLITION - DECONTAMINATION
1/2" = 1'-0" REF:2/AD101



2 AD101 FIRST FLOOR RCP DEMOLITION
1/8" = 1'-0" REF:3/A403



NOTE: ALTERNATE 1 - UPGRADE EXISTING FIRST FLOOR LAUNDRY INTO NEW DECONTAMINATION ROOM AS INDICATED ON SHEET A403, IF ALTERNATE 1 IS NOT ACCEPTED, PROVIDE NEW DOOR ASSEMBLY AS CALLED OUT IN DOOR SCHEDULE IN NEW PARTITION AT BASE OF FIRE POLE.

3 AD101 FIRST FLOOR DEMOLITION PLAN - DECONTAMINATION
1/2" = 1'-0" REF:1/AD101



1 AD101 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0" REF:3/A403

GENERAL DEMOLITION PLAN NOTES

A. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY DEMOLITION WORK AND SCHEDULED TO RECEIVE NEW CONSTRUCTION, SHALL BE REPAIRED AND PATCHED AS REQUIRED TO CLEANLY AND SOUNDLY RECEIVE NEW WORK.

B. ALL EXISTING SURFACE LOCATED ADJACENT TO DEMOLITION WORK AND SCHEDULE TO REMAIN EXPOSED AFTER COMPLETION OF NEW CONSTRUCTION SHALL BE REPAIRED AND PATCHED AS REQUIRED TO MATCH EXISTING.

C. WHERE DEMOLITION WORK EXPOSED AND UNFINISHED SURFACE OR CONDITION IN A SURFACE TO REMAIN EXPOSED, THE CONTRACTOR SHALL PATCH, REPAIR, AND PREPARE SUCH SURFACE OR CONDITION AS REQUIRED TO PROPERLY RECEIVE NEW FINISHES AND TO MATCH THE EXISTING ADJACENT SURFACE.

D. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURFACES, MATERIALS, AND COMPONENTS TO REMAIN. ANY DAMAGE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REPAIRED BY THE CONRACTOR T...

E. CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS. PATCH ALL AREAS REQUIRE TO ACCEPT NEW HVAC, PLUMBING, AND ELECTRICAL WORK. PATCH AND REPAIR TO A FINISHED CONDITION INDICATED IN THE DRAWINGS OR TO MATCH EXISTING.

F. THE CONTRACTOR SHALL REVIEW IN ADVANCE ALL PORTIONS OF THE WORK TO VERIFY THAT THE WORK WILL NOT PROHIBIT COMPLETION OF THE PROJECT AS INTENDED. ANY QUESTIONS SHALL PROMPTLY REFERRED TO THE ARCHITECT FOR RESOLUTION.

G. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT OF WORK.

KEY NOTES - RCP DEMOLITION

NO.	DESCRIPTION
1.	REMOVE EXISTING CEILING AND FIXTURES AND PREP FOR NEW WORK. SALVAGE EXISTING CEILING TILES FOR POSSIBLE REUSE. COORDINATE WITH OWNER
3.	RECONFIGURE EXISTING BULKHEAD TO ACCOMODATE NEW WORK

DEMOLITION LEGEND

- EXISTING ITEM TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING DOOR & FRAME TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING MASONRY WALL TO BE REMOVED
- EXISTING CONCRETE WALL TO BE REMOVED
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING GLAZING TO BE REMOVED
- PLAN NOTE DESIGNATION

KEY NOTES - DEMOLITION

NO.	DESCRIPTION
1.	REMOVE EXISTING DOOR ASSEMBLY IN ITS ENTIRETY INCLUDING FRAME AND HARDWARE AND STORE FOR REUSE
2.	REMOVE EXISTING PARTITION IN ITS ENTIRETY
3.	EXPAND EXISTING GWB WRAPPED OPENING TO CLOSET WALL. REFRAME HEADER FOR LARGER OPENING. HEAD HEIGHT TO REMAIN THE SAME.
4.	DEMOLISH EXISTING CASEWORK AND LOW PARTITIONS.
5.	REMOVE EXISTING LOCKERS.
6.	REMOVE EXISTING BENCH
7.	DEMOLISH EXISTING COUNTERTOP, SINKS, CABINET, AND MIRROR
8.	REMOVE EXISTING FLOOR FINISH. PREP SURFACE FOR NEW FLOOR FINISH
9.	NOT USED
10.	EXPAND EXISTING DOOR FRAMING TO ACCOMODATE LARGER DOOR, SEE DOOR SCHEDULE
11.	REMOVE EXISTING DOOR ASSEMBLY IN IT'S ENTIRETY
12.	CUT SLAB TO TIE NEW TRENCH DRAIN INTO EXISTING FLOOR DRAIN SYSTEM, SEE PLUMING DRAWINGS
13.	REMOVE EXISTING GWB ON LAUNDRY ROOM SIDE OF WALL ON ONE SIDE AS INDICATED BY DASHED LINE
14.	REMOVE EXISTING WALL CABINETS AND SALVAGE FOR RE-USE
15.	REMOVE EXISTING BASE CABINETS AND COUNTERTOP
16.	REMOVE EXISTING PLUMBING FIXTURE
17.	REMOVE EXISTING WASHER AND DRYER - COORDINATE WITH OWNER
18.	REMOVE EXISTING GWB ON LAUNDRY ROOM SIDE OF WALL AS INDICATED BY DASHED LINE
19.	REMOVE EXISTING GWB ON UNISEX RESTROOM SIDE OF WALL AS INDICATED BY DASHED LINE
20.	REMOVE EXISTING DOOR AND HARDWARE. FRAME CAN REMAIN IN PLACE. PREP EXISTING FRAME FOR NEW DOOR AND HARDWARE.

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:



PROJECT NUMBER:
250060

REVISION SCHEDULE

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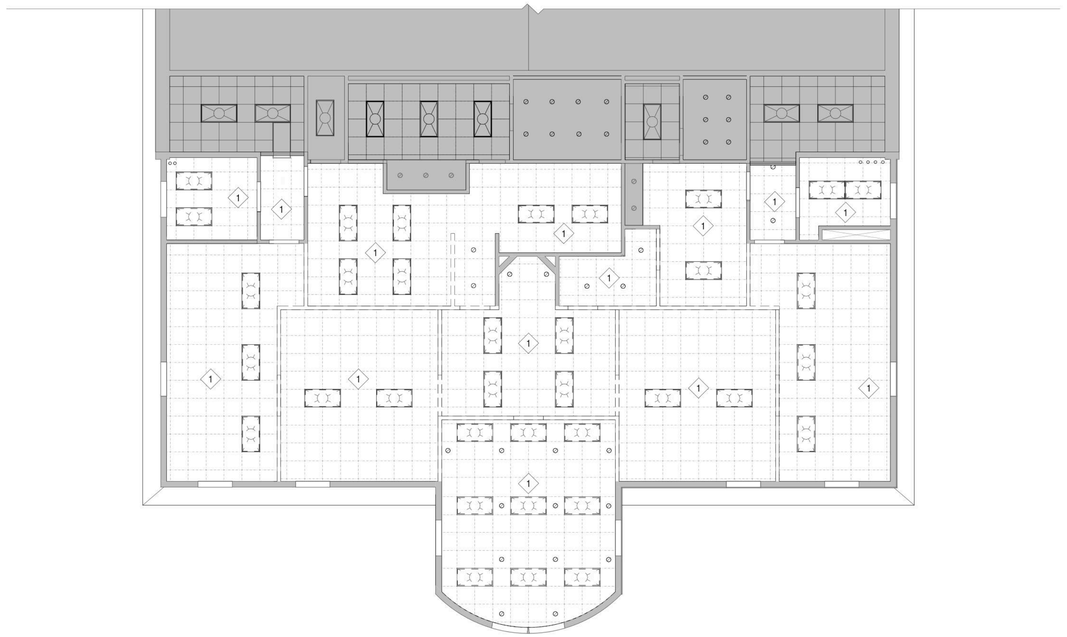
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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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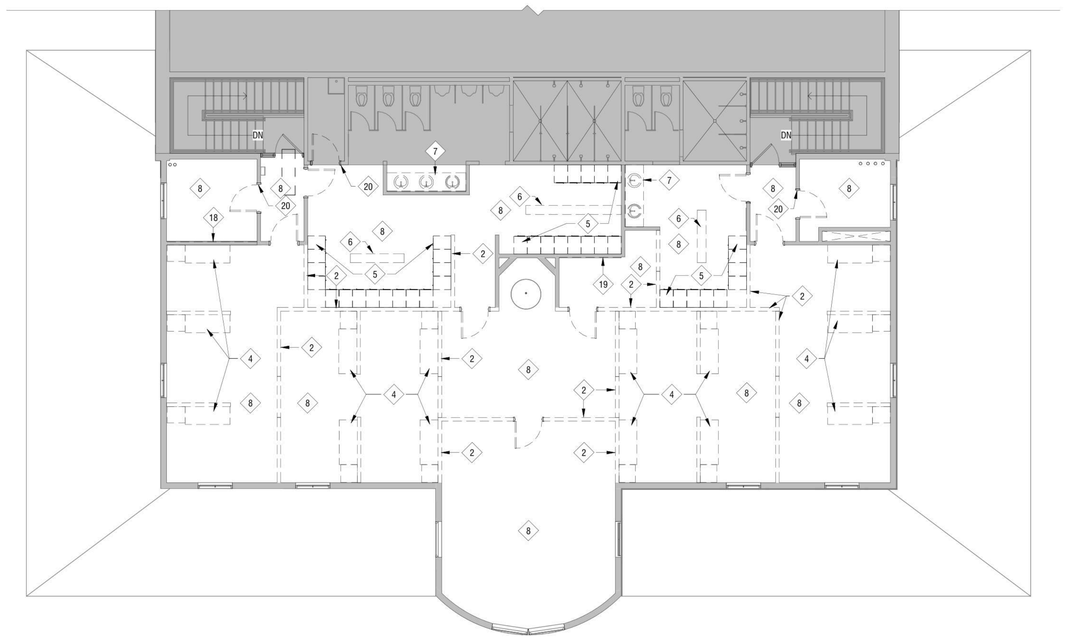
DRAWING TITLE:
FIRST FLOOR DEMOLITION PLANS

SHEET NUMBER:
AD101

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2 AD102 SECOND FLOOR DEMOLITION
1/8" = 1'-0" REF:2/A401



1 AD102 SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0" REF:2/A401

GENERAL DEMOLITION PLAN NOTES

A. ALL EXISTING SURFACES LOCATED ADJACENT TO, OR EXPOSED BY DEMOLITION WORK AND SCHEDULED TO RECEIVE NEW CONSTRUCTION, SHALL BE REPAIRED AND PATCHED AS REQUIRED TO CLEANLY AND SOUNDLY RECEIVE NEW WORK.

B. ALL EXISTING SURFACE LOCATED ADJACENT TO DEMOLITION WORK AND SCHEDULE TO REMAIN EXPOSED AFTER COMPLETION OF NEW CONSTRUCTION SHALL BE REPAIRED AND PATCHED AS REQUIRED TO MATCH EXISTING.

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F. THE CONTRACTOR SHALL REVIEW IN ADVANCE ALL PORTIONS OF THE WORK TO VERIFY THAT THE WORK WILL NOT PROHIBIT COMPLETION OF THE PROJECT AS INTENDED. ANY QUESTIONS SHALL PROMPTLY REFERRED TO THE ARCHITECT FOR RESOLUTION.

G. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT OF WORK.

KEY NOTES - RCP DEMOLITION

NO.	DESCRIPTION
1.	REMOVE EXISTING CEILING AND FIXTURES AND PREP FOR NEW WORK. SALVAGE EXISTING CEILING TILES FOR POSSIBLE REUSE. COORDINATE WITH OWNER
3.	RECONFIGURE EXISTING BULKHEAD TO ACCOMODATE NEW WORK

DEMOLITION LEGEND

- EXISTING ITEM TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING DOOR & FRAME TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING MASONRY WALL TO BE REMOVED
- EXISTING CONCRETE WALL TO BE REMOVED
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING GLAZING TO BE REMOVED
- PLAN NOTE DESIGNATION

KEY NOTES - DEMOLITION

NO.	DESCRIPTION
1.	REMOVE EXISTING DOOR ASSEMBLY IN ITS ENTIRETY INCLUDING FRAME AND HARDWARE AND STORE FOR REUSE
2.	REMOVE EXISTING PARTITION IN ITS ENTIRETY
3.	EXPAND EXISTING GWB WRAPPED OPENING TO CLOSET WALL. REFRAME HEADER FOR LARGER OPENING. HEAD HEIGHT TO REMAIN THE SAME.
4.	DEMOLISH EXISTING CASEWORK AND LOW PARTITIONS.
5.	REMOVE EXISTING LOCKERS.
6.	REMOVE EXISTING BENCH
7.	DEMOLISH EXISTING COUNTERTOP, SINKS, CABINET, AND MIRROR
8.	REMOVE EXISTING FLOOR FINISH. PREP SURFACE FOR NEW FLOOR FINISH
9.	NOT USED
10.	EXPAND EXISTING DOOR FRAMING TO ACCOMODATE LARGER DOOR, SEE DOOR SCHEDULE
11.	REMOVE EXISTING DOOR ASSEMBLY IN IT'S ENTIRETY
12.	CUT SLAB TO TIE NEW TRENCH DRAIN INTO EXISTING FLOOR DRAIN SYSTEM, SEE PLUMING DRAWINGS
13.	REMOVE EXISTING GWB ON LAUNDRY ROOM SIDE OF WALL ON ONE SIDE AS INDICATED BY DASHED LINE
14.	REMOVE EXISTING WALL CABINETS AND SALVAGE FOR RE-USE
15.	REMOVE EXISTING BASE CABINETS AND COUNTERTOP
16.	REMOVE EXISTING PLUMBING FIXTURE
17.	REMOVE EXISTING WASHER AND DRYER - COORDINATE WITH OWNER
18.	REMOVE EXISTING GWB ON LAUNDRY ROOM SIDE OF WALL AS INDICATED BY DASHED LINE
19.	REMOVE EXISTING GWB ON UNISEX RESTROOM SIDE OF WALL AS INDICATED BY DASHED LINE
20.	REMOVE EXISTING DOOR AND HARDWARE. FRAME CAN REMAIN IN PLACE. PREP EXISTING FRAME FOR NEW DOOR AND HARDWARE.

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TODY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

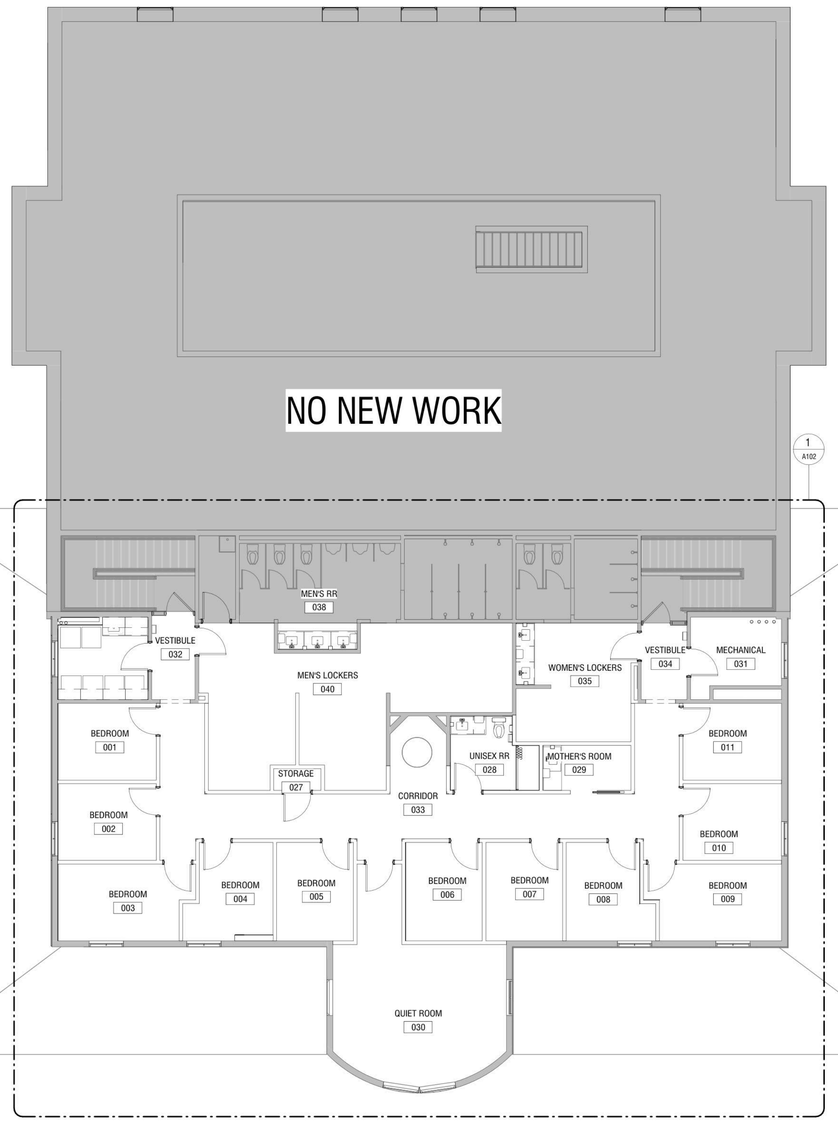
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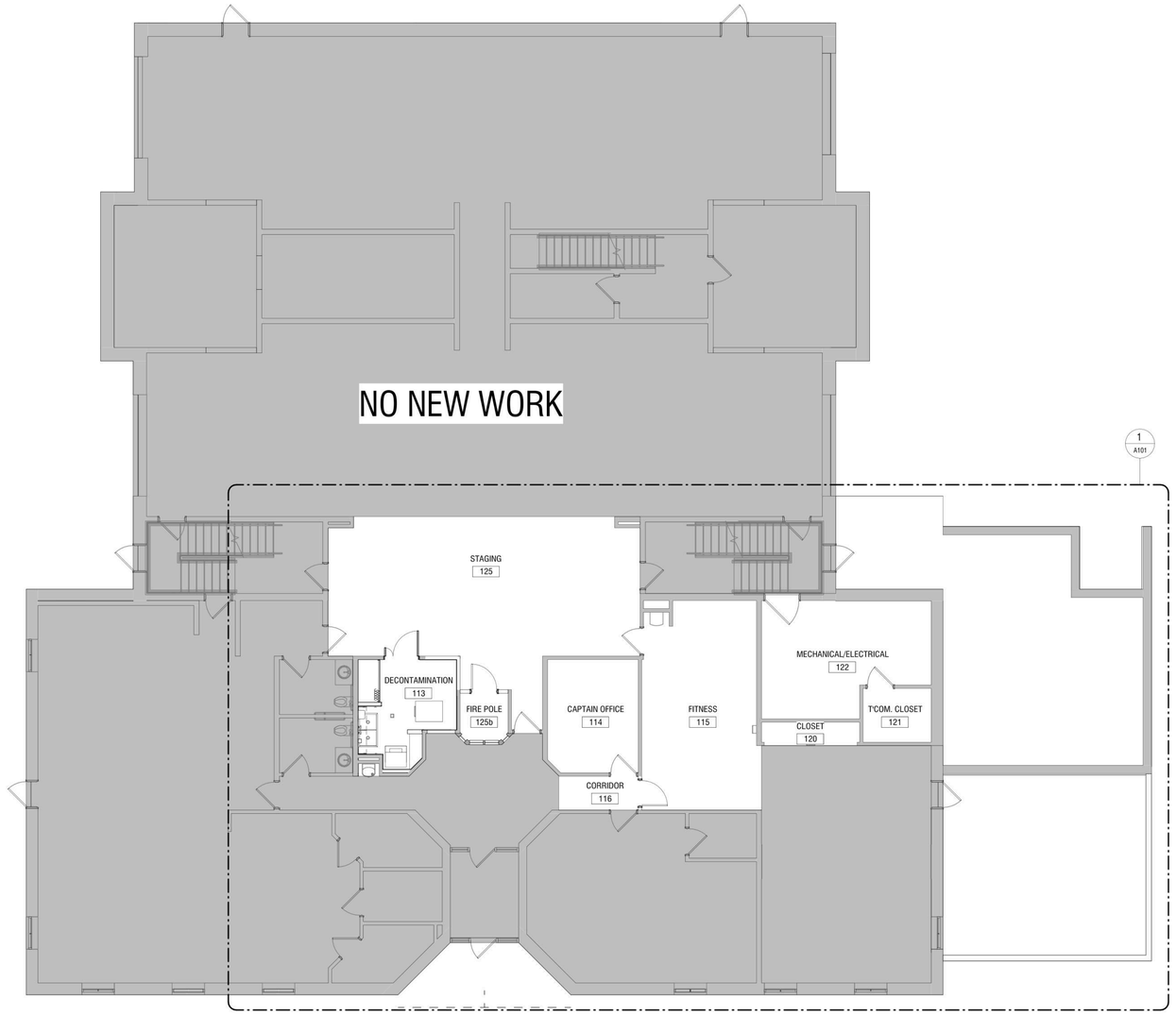
DRAWING TITLE:
SECOND FLOOR DEMOLITION PLANS

SHEET NUMBER:
AD102

Autodesk Docs://250060 - Carmel Fire Station 42846/250060 Carmel Fire Station 46.rvt
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2 A100 SECOND FLOOR PLAN
1/8" = 1'-0" REF:2/A401



1 A100 FIRST FLOOR PLAN
1/8" = 1'-0" REF:3/A403

N

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Renovation of Station 46
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Carmel, IN 46032

City of Carmel
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PROFESSIONAL SEAL:
TOBY J. WINGER
REGISTERED
No. AR10300002
STATE OF
INDIANA
ARCHITECT
8-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
OVERALL PLANS

SHEET NUMBER:
A100

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GENERAL FINISH NOTES

A. ALL FINISHES SHALL COMPLY WITH CHAPTER 8 (INTERIOR FINISHES) OF THE 2014 INDIANA BUILDING CODE FOR CLASS C FIRE RATINGS.

B. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON DRAWINGS.

C. FOR NEW ELECTRICAL, THERMOSTATS AND OTHER DEVICES, COORDINATION COLOR SELECTION WITH ETICA GROUP PRIOR TO INSTALLATION.

D. ALL AREAS TO RECEIVE PAINT ARE TO RECEIVED PRIMER COAT AND TWO COATS OF FINISH.

E. FOR CHANGES IN FLOOR MATERIAL, PROVIDE TRANSITION STRIPS BETWEEN FLOORING OF DIFFERING MATERIALS. WHERE MATERIAL CHANGES AT A DOOR OPENING, FINISH CHANGE SHOULD OCCUR CENTERED UNDER THE DOOR.

F. SUBMIT SAMPLES OF MILLWORK, CASWORK AND WOOD DOORS (STAINED OR PAINTED) TO ETICA GROUP FOR REVIEW AND APPROVAL PRIOR TO FINISHING OF MATERIALS.

G. REFER TO INTERIOR ELEVATIONS & SECTIONS WHERE PROVIDED FOR ADDITIONAL FINISH INFORMATION. NOTE ANY DISCREPANCIES TO THE ETICA GROUP.

H. PROVIDE SEALANT SAMPLES FOR SELECTION BY THE ETICA GROUP FOR ALL INTERIOR SEALANT APPLICATIONS. CLEAR SILCONE SEALANTS ARE NOT ACCEPTABLE.

I. INSTALL CORNER GUARDS ON ALL OUTSIDE CORNERS AS NOTED ON PLANS

GENERAL FLOOR PLAN NOTES

A. ALL DIMENSIONS ARE SHOWN TO FACE OF STUD, MASONRY, OR COLUMN CENTERLINES UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS CLEAR ("CLR") INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.

B. ALL DOOR FRAMES ARE LOCATED 4-INCHES FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

C. SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.

D. ALL GYPSUM WALL BOARD SHALL BE 5/8" TYPE 'X' UNLESS NOTED OTHERWISE. PROVIDE LEVEL 4 FINISH UNLESS NOTED OTHERWISE.

E. MANUFACTURERS LISTED IN THE CONSTRUCTION DOCUMENTS ARE FOR "BASIS-OF-DESIGN". SUBSTITUTIONS SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS AND ASTM STANDARDS LISTED IN THE SPECIFICATIONS TO BE CONSIDERED AN APPROVED EQUAL BY THE OWNER AND ARCHITECT OF RECORD.

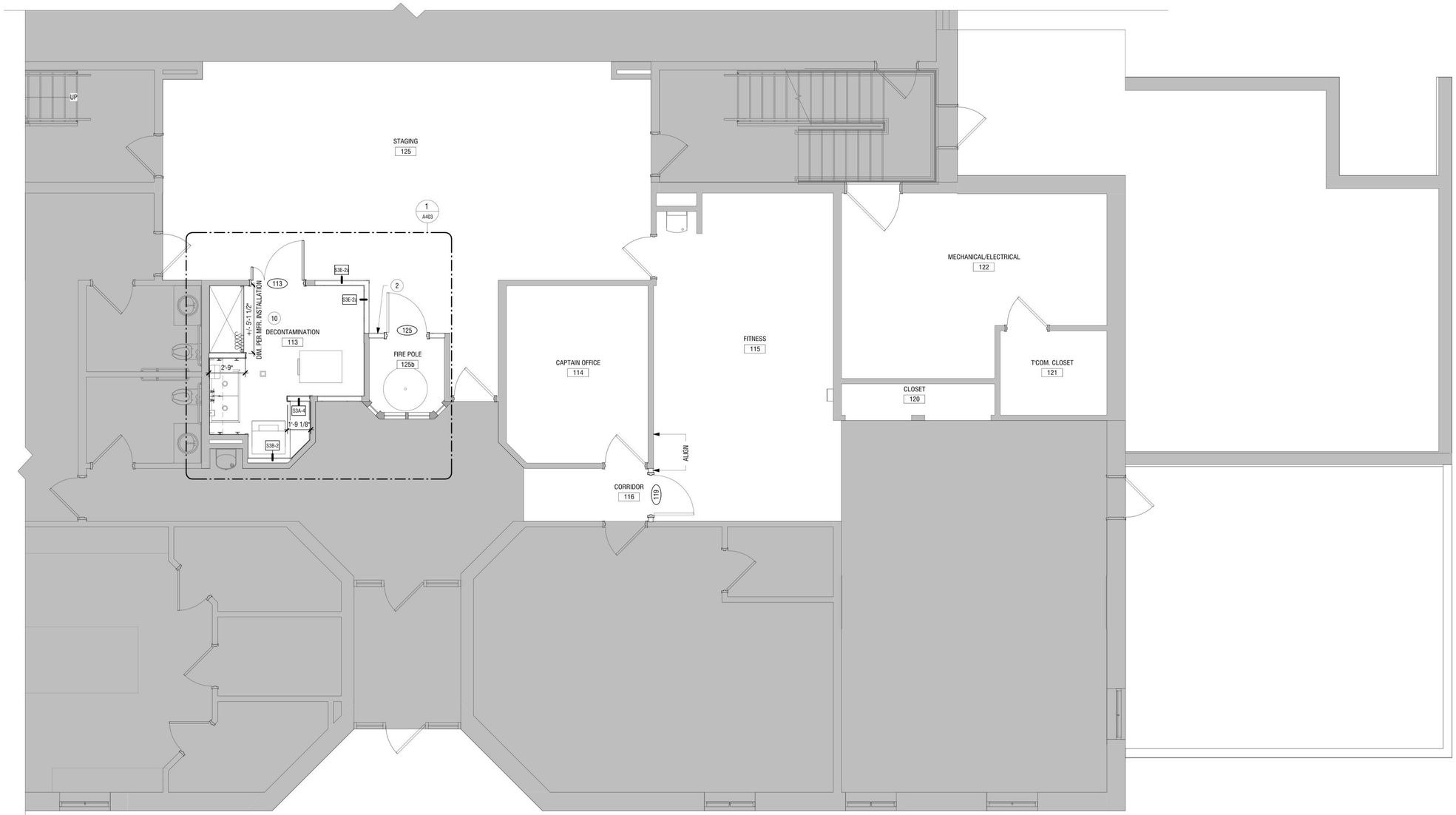
F. INSTALL BLOCKING INSIDE WALL FOR INSTALLATION OF WALL HUNG EQUIPMENT INCLUDING OWNER PROVIDED EQUIPMENT. COORDINATION LOCATION OF BLOCKING WITH ARCHITECT PRIOR TO INSTALLATION.

G. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT OF WORK.

H. ALL INTERIOR WALLS ARE S3A-2a UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.

KEY NOTES - FLOOR PLAN

NO.	DESCRIPTION
1.	NOT USED
2.	NEW WALL TO ALIGN WITH EDGE OF EXISTING GWB CEILING
3.	NEW VENTED LOCKER WITH BENCH, 24" W X 24" D X 84" TALL
4.	SHOWER WITH HOSE BIB
5.	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
6.	EXISTING FIRE POLE OPENING
7.	FUTURE EXTRACTOR, PROVIDE ROUGH-INS ONLY
8.	EXTEND LOCKER FRONT, DRAWER BASE FRONT, AND BENCH AROUND CORNER AND TO END WALL AS SHOWN TO CREATE CONTINUOUS INSTALLATION
9.	INFILL WALL WHERE DOOR IS REMOVED TO MATCH SURROUNDING CONSTRUCTION
10.	INSTALL MOISTURE RESISTANT GWB, FULL HEIGHT OF STUDS, ON DECONTAMINATION SIDE OF EXISTING WALLS AND BULKHEADS. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 49 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
11.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE, ADD ACOUSTIC INSULATION AND MOISTURE RESISTANT GWB TO LAUNDRY ROOM SIDE OF WALL, ADD AN ADDITIONAL LAYER OF GWB TO BUNKROOM SIDE OF WALL, AND SEAL TO MEET ACOUSTIC RATING OF 50 STC MIN. DEPENDING ON EXISTING WALL CONSTRUCTION.
12.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE.
13.	INSTALL MOISTURE RESISTANT GWB ON UNISEX RESTROOM SIDE OF WALL. EXTEND TO UNDERSIDE OF GWB LID ABOVE. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
14.	CORNER GUARD
15.	18" DEEP ADJUSTABLE SHELVES ON STANDARDS, PROVIDE FIVE SHELVES
16.	FLOOR FINISH MATERIALTRANSITION LINE - SEE SHEET A601 FOR DETAILS
17.	PROVIDE HOLLOW METAL FRAME CASED OPENING



1 A101 LEVEL 1 FLOOR PLAN
1/4" = 1'-0" REF:1/A100

N

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Renovation of Station 46
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Carmel, IN 46032

City of Carmel
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Carmel, IN 46032

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PROFESSIONAL SEAL:

TODD J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
FIRST FLOOR PLAN

SHEET NUMBER:
A101

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GENERAL FINISH NOTES

A. ALL FINISHES SHALL COMPLY WITH CHAPTER 8 (INTERIOR FINISHES) OF THE 2014 INDIANA BUILDING CODE FOR CLASS C FIRE RATINGS.

B. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON DRAWINGS.

C. FOR NEW ELECTRICAL, THERMOSTATS AND OTHER DEVICES, COORDINATION COLOR SELECTION WITH ETICA GROUP PRIOR TO INSTALLATION.

D. ALL AREAS TO RECEIVE PAINT ARE TO RECEIVED PRIMER COAT AND TWO COATS OF FINISH.

E. FOR CHANGES IN FLOOR MATERIAL, PROVIDE TRANSITION STRIPS BETWEEN FLOORING OF DIFFERING MATERIALS. WHERE MATERIAL CHANGES AT A DOOR OPENING, FINISH CHANGE SHOULD OCCUR CENTERED UNDER THE DOOR.

F. SUBMIT SAMPLES OF MILLWORK, CASWORK AND WOOD DOORS (STAINED OR PAINTED) TO ETICA GROUP FOR REVIEW AND APPROVAL PRIOR TO FINISHING OF MATERIALS.

G. REFER TO INTERIOR ELEVATIONS & SECTIONS WHERE PROVIDED FOR ADDITIONAL FINISH INFORMATION. NOTE ANY DISCREPANCIES TO THE ETICA GROUP.

H. PROVIDE SEALANT SAMPLES FOR SELECTION BY THE ETICA GROUP FOR ALL INTERIOR SEALANT APPLICATIONS. CLEAR SILCONE SEALANTS ARE NOT ACCEPTABLE.

I. INSTALL CORNER GUARDS ON ALL OUTSIDE CORNERS AS NOTED ON PLANS

GENERAL FLOOR PLAN NOTES

A. ALL DIMENSIONS ARE SHOWN TO FACE OF STUD, MASONRY, OR COLUMN CENTERLINES UNLESS NOTED OTHERWISE. DIMENSIONS DESIGNATED AS CLEAR ("CLR") INDICATE A CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.

B. ALL DOOR FRAMES ARE LOCATED 4-INCHES FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

C. SEAL ALL JOINTS BETWEEN DISSIMILAR MATERIALS.

D. ALL GYPSUM WALL BOARD SHALL BE 5/8" TYPE 'X' UNLESS NOTED OTHERWISE. PROVIDE LEVEL 4 FINISH UNLESS NOTED OTHERWISE.

E. MANUFACTURERS LISTED IN THE CONSTRUCTION DOCUMENTS ARE FOR "BASIS-OF-DESIGN". SUBSTITUTIONS SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS AND ASTM STANDARDS LISTED IN THE SPECIFICATIONS TO BE CONSIDERED AN APPROVED EQUAL BY THE OWNER AND ARCHITECT OF RECORD.

F. INSTALL BLOCKING INSIDE WALL FOR INSTALLATION OF WALL HUNG EQUIPMENT INCLUDING OWNER PROVIDED EQUIPMENT. COORDINATION LOCATION OF BLOCKING WITH ARCHITECT PRIOR TO INSTALLATION.

G. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT OF WORK.

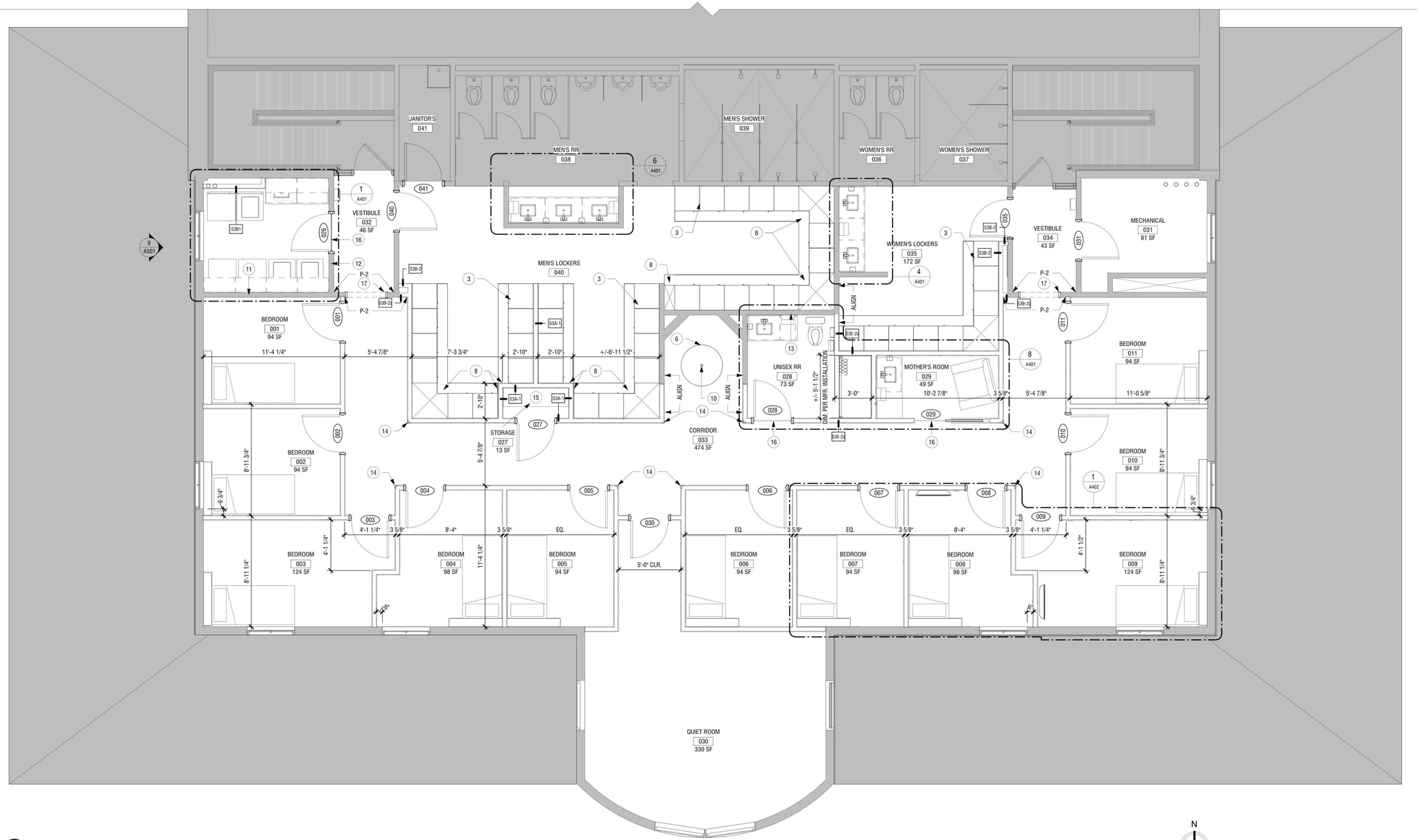
H. ALL INTERIOR WALLS ARE S3A-2a UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.

KEY NOTES - FLOOR PLAN

NO.	DESCRIPTION
1.	NOT USED
2.	NEW WALL TO ALIGN WITH EDGE OF EXISTING GWB CEILING
3.	NEW VENTED LOCKER WITH BENCH, 24" W X 24" D X 84" TALL
4.	SHOWER WITH HOSE BIB
5.	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
6.	EXISTING FIRE POLE OPENING
7.	FUTURE EXTRACTOR, PROVIDE ROUGH-INS ONLY
8.	EXTEND LOCKER FRONT, DRAWER BASE FRONT, AND BENCH AROUND CORNER AND TO END WALL AS SHOWN TO CREATE CONTINUOUS INSTALLATION
9.	INFILL WALL WHERE DOOR IS REMOVED TO MATCH SURROUNDING CONSTRUCTION
10.	INSTALL MOISTURE RESISTANT GWB, FULL HEIGHT OF STUDS, ON DECONTAMINATION SIDE OF EXISTING WALLS AND BULKHEADS. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
11.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE. ADD ACOUSTIC INSULATION AND MOISTURE RESISTANT GWB TO LAUNDRY ROOM SIDE OF WALL. ADD AN ADDITIONAL LAYER OF GWB TO BUNKROOM SIDE OF WALL, AND SEAL TO MEET ACOUSTIC RATING OF 50 STC MIN. DEPENDING ON EXISTING WALL CONSTRUCTION.
12.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE.

KEY NOTES - FLOOR PLAN

NO.	DESCRIPTION
13.	INSTALL MOISTURE RESISTANT GWB ON UNISEX RESTROOM SIDE OF WALL. EXTEND TO UNDERSIDE OF GWB LID ABOVE. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
14.	CORNER GUARD
15.	18" DEEP ADJUSTABLE SHELVES ON STANDARDS, PROVIDE FIVE SHELVES
16.	FLOOR FINISH MATERIALTRANSITION LINE - SEE SHEET A601 FOR DETAILS
17.	PROVIDE HOLLOW METAL FRAME CASED OPENING



1 A102 SECOND FLOOR PLAN
1/4" = 1'-0"

N

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Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER: 250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE: SECOND FLOOR PLAN

SHEET NUMBER: A102

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GENERAL CEILING PLAN NOTES

A. ALL NEW CEILING GRIDS ARE CENTERED IN ROOMS IN EACH DIRECTION UNLESS NOTED OTHERWISE. NO TILE SHOULD BE LESS THAN 6-INCHES WIDE AT THE EDGES.

B. COORDINATION OF DUCTWORK, PIPING, LIGHTS AND CEILING SUPPORTS ARE THE RESPONSIBILITY OF THE TRADE CONTRACTORS. CONTRACTORS WILL ACCEPT RESPONSIBILITY TO RELOCATE ITEMS THAT CONFLICT DUE TO LACK OF COORDINATION.

C. CENTER CEILING ELEMENTS IN CEILING TILES, INCLUDING RECESSED DOWN LIGHTS, SMOKE DETECTORS, SPRINKLER HEADS, OCCUPANCY SENSORS, SPEAKERS, CEILING FANS, AND EXIT SIGNS UNLESS OTHERWISE NOTED.

D. ALL NEW CEILINGS TO BE 2'X2' ACOUSTIC PANEL CEILING. REFER TO FINISH AND ROOM SCHEDULES FOR TYPES.

E. CEILING HEIGHTS TO MATCH EXISTING UNLESS NOTED OTHERWISE.

F. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT...

G. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.

H. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.

KEY NOTES - CEILING PLAN

NO.	DESCRIPTION
1	NEW GYPSUM BULKHEAD
2	OPEN TO GWB LID ABOVE

REFLECTED CEILING PLAN LEGEND

NEW	DEMO	EXISTING TO REMAIN
CEILING GRID, SUSPENDED, 2' X 2'	CEILING GRID, SUSPENDED, 2' X 2'	CEILING GRID, SUSPENDED, 2' X 2'
CEILING GRID, SUSPENDED, 2' X 4'	CEILING GRID, SUSPENDED, 2' X 4'	CEILING GRID, SUSPENDED, 2' X 4'
GYPSUM BOARD CEILING	GYPSUM BOARD CEILING	GYPSUM BOARD CEILING
ACT-12 12'-0" A.F.F. — CEILING TYPE / CEILING HEIGHT		
LINEAR LIGHT FIXTURE		
2 X 2 LIGHT FIXTURE, EMERGENCY		
2 X 4 LIGHT FIXTURE		
2 X 2 LIGHT FIXTURE		
CAN LIGHT FIXTURE		
DIRECTIONAL EXIT SIGN		
EMERGENCY EXIT LIGHT		
SPRINKLER HEAD (VARIES)		
RETURN AIR DIFFUSER		
SUPPLY AIR DIFFUSER		
SPEAKER		
OCCUPANCY SENSOR		
SMOKE DETECTOR		
CEILING FAN		



1 / A103 LEVEL 1 CEILING
1/4" = 1'-0" REF:3/A403

N

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Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
CEILING PLAN - FIRST

SHEET NUMBER:
A103

GENERAL CEILING PLAN NOTES

A. ALL NEW CEILING GRIDS ARE CENTERED IN ROOMS IN EACH DIRECTION UNLESS NOTED OTHERWISE. NO TILE SHOULD BE LESS THAN 6-INCHES WIDE AT THE EDGES.

B. COORDINATION OF DUCTWORK, PIPING, LIGHTS AND CEILING SUPPORTS ARE THE RESPONSIBILITY OF THE TRADE CONTRACTORS. CONTRACTORS WILL ACCEPT RESPONSIBILITY TO RELOCATE ITEMS THAT CONFLICT DUE TO LACK OF COORDINATION.

C. CENTER CEILING ELEMENTS IN CEILING TILES, INCLUDING RECESSED DOWN LIGHTS, SMOKE DETECTORS, SPRINKLER HEADS, OCCUPANCY SENSORS, SPEAKERS, CEILING FANS, AND EXIT SIGNS UNLESS OTHERWISE NOTED.

D. ALL NEW CEILINGS TO BE 2'X2' ACOUSTIC PANEL CEILING. REFER TO FINISH AND ROOM SCHEDULES FOR TYPES.

E. CEILING HEIGHTS TO MATCH EXISTING UNLESS NOTED OTHERWISE.

F. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT / ENGINEER PRIOR TO COMMENCMENT...

G. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.

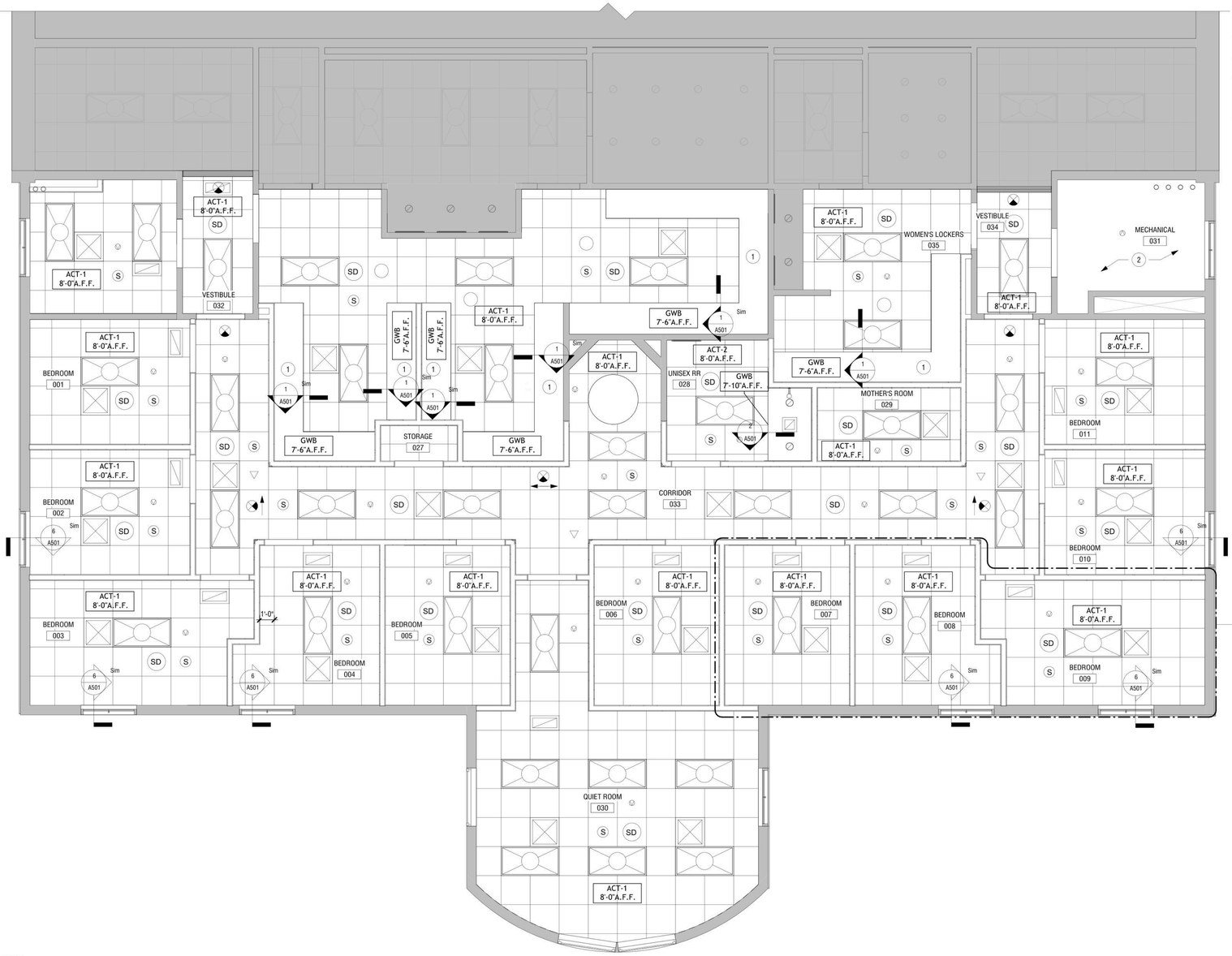
H. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.

KEY NOTES - CEILING PLAN

NO.	DESCRIPTION
1	NEW GYPSUM BULKHEAD
2	OPEN TO GWB LID ABOVE

REFLECTED CEILING PLAN LEGEND

NEW	DEMO	EXISTING TO REMAIN
CEILING GRID, SUSPENDED, 2' X 2'	CEILING GRID, SUSPENDED, 2' X 2'	CEILING GRID, SUSPENDED, 2' X 2'
CEILING GRID, SUSPENDED, 2' X 4'	CEILING GRID, SUSPENDED, 2' X 4'	CEILING GRID, SUSPENDED, 2' X 4'
GYPSUM BOARD CEILING	GYPSUM BOARD CEILING	GYPSUM BOARD CEILING
ACT-12 12'-0" A.F.F. — CEILING TYPE / CEILING HEIGHT		
LINEAR LIGHT FIXTURE		
2 X 2 LIGHT FIXTURE, EMERGENCY		
2 X 4 LIGHT FIXTURE		
2 X 2 LIGHT FIXTURE		
CAN LIGHT FIXTURE		
DIRECTIONAL EXIT SIGN		
EMERGENCY EXIT LIGHT		
SPRINKLER HEAD (VARIES)		
RETURN AIR DIFFUSER		
SUPPLY AIR DIFFUSER		
(S) SPEAKER		
OCCUPANCY SENSOR		
(SD) SMOKE DETECTOR		
CEILING FAN		



1 A104 LEVEL 2 RCP
1/4" = 1'-0" REF:2/A401

N

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Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TODD J. WINGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/2026	ERS	TLG

DRAWING TITLE:
CEILING PLAN - SECOND

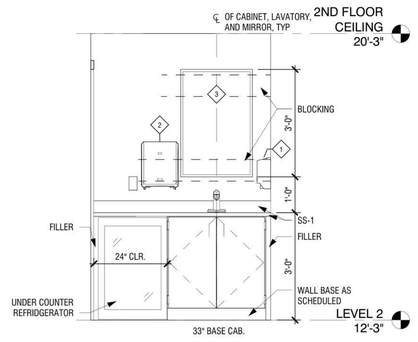
SHEET NUMBER:
A104

KEY NOTES - FLOOR PLAN

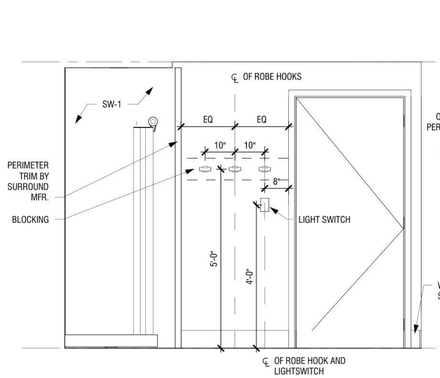
NO.	DESCRIPTION
1.	NOT USED
2.	NEW WALL TO ALIGN WITH EDGE OF EXISTING GWB CEILING
3.	NEW VENTED LOCKER WITH BENCH, 24" W X 24" D X 84" TALL
4.	SHOWER WITH HOSE BIB
5.	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
6.	EXISTING FIRE POLE OPENING
7.	FUTURE EXTRACTOR, PROVIDE ROUGH-INS ONLY
8.	EXTEND LOCKER FRONT, DRAWER BASE FRONT, AND BENCH AROUND CORNER AND TO END WALL AS SHOWN TO CREATE CONTINUOUS INSTALLATION
9.	INFILL WALL WHERE DOOR IS REMOVED TO MATCH SURROUNDING CONSTRUCTION
10.	INSTALL MOISTURE RESISTANT GWB, FULL HEIGHT OF STUDS, ON DECONTAMINATION SIDE OF EXISTING WALLS AND BULKHEADS. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
11.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE, ADD ACOUSTIC INSULATION AND MOISTURE RESISTANT GWB TO LAUNDRY ROOM SIDE OF WALL, ADD AN ADDITIONAL LAYER OF GWB TO BUNKROOM SIDE OF WALL, AND SEAL TO MEET ACOUSTIC RATING OF 50 STC MIN. DEPENDING ON EXISTING WALL CONSTRUCTION.
12.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE.
13.	INSTALL MOISTURE RESISTANT GWB ON UNISEX RESTROOM SIDE OF WALL, EXTEND TO UNDERSIDE OF GWB LID ABOVE. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
14.	CORNER GUARD
15.	18" DEEP ADJUSTABLE SHELVES ON STANDARDS, PROVIDE FIVE SHELVES
16.	FLOOR FINISH MATERIALTRANSITION LINE - SEE SHEET A601 FOR DETAILS
17.	PROVIDE HOLLOW METAL FRAME CASED OPENING

ACCESSORY SCHEDULE

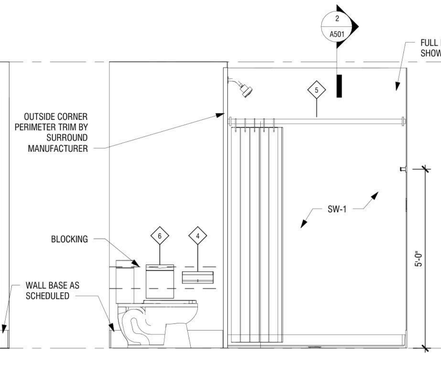
Type Mark	Type	Manufacturer/Model	Comments
1	SOAP DISPENSER		PROVIDED AND INSTALLED BY OWNER
2	PAPER TOWEL DISPENSER		PROVIDED AND INSTALLED BY OWNER
3	MIRROR 24Wx36H	B-780-2436	
4	TOILET TISSUE DISPENSER		PROVIDED AND INSTALLED BY OWNER
5	SHOWER ROD AND CURTAIN		PART OF SHOWER PACKAGE
6	SANITARY NAPKIN DISPOSAL	B-270	
7	ROBE HOOK	B-9124	



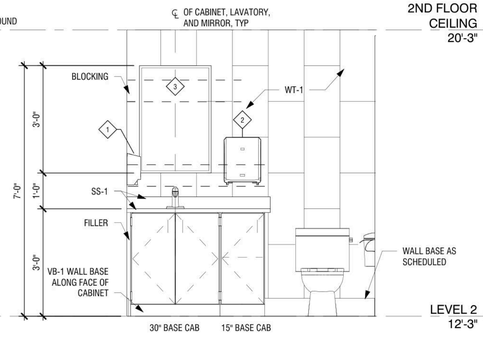
12 A401 CASEWORK ELEVATION - MOTHER'S ROOM
1/2" = 1'-0" REF:8/A401



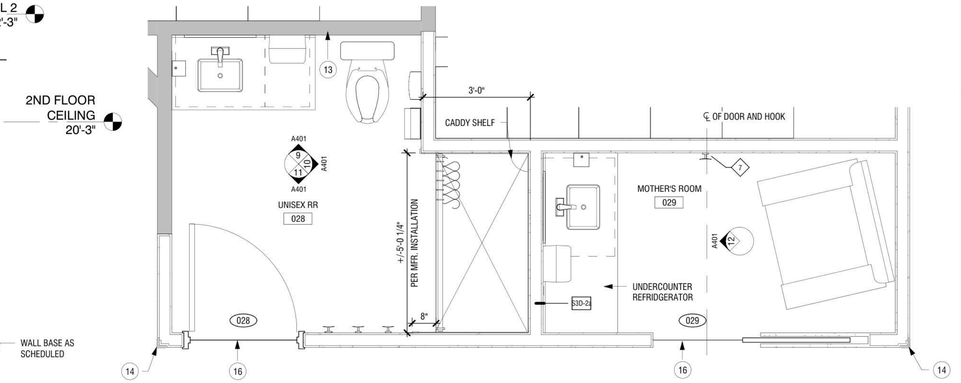
11 A401 ELEVATION - UNISEX RR
1/2" = 1'-0" REF:8/A401



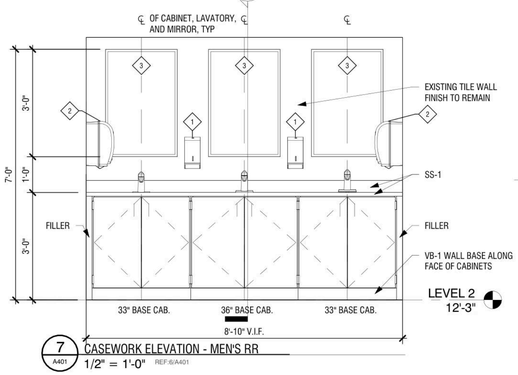
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1/2" = 1'-0" REF:8/A401



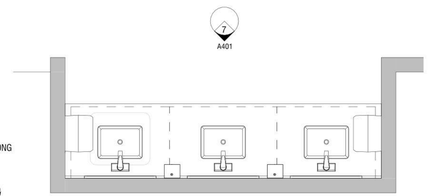
9 A401 CASEWORK ELEVATION - UNISEX RR
1/2" = 1'-0" REF:8/A401



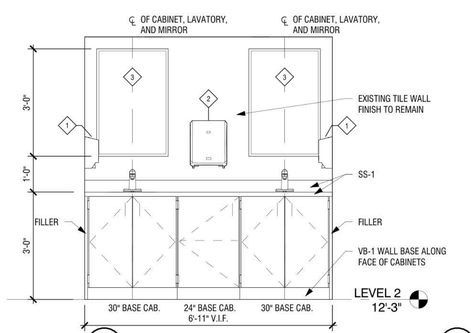
8 A401 FLOOR PLAN - UNISEX RR & MOTHER'S ROOM
1/2" = 1'-0" REF:1/A102



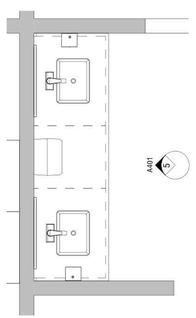
7 A401 CASEWORK ELEVATION - MEN'S RR
1/2" = 1'-0" REF:6/A401



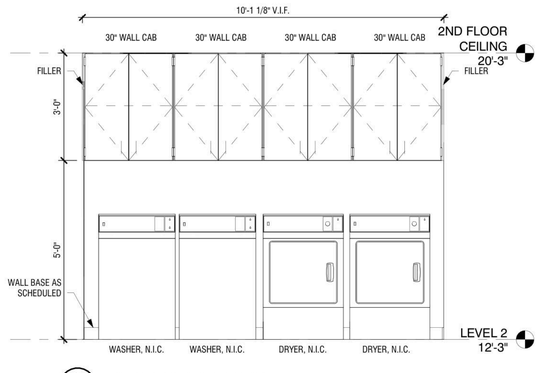
6 A401 FLOOR PLAN - MEN'S RR
1/2" = 1'-0" REF:1/A102



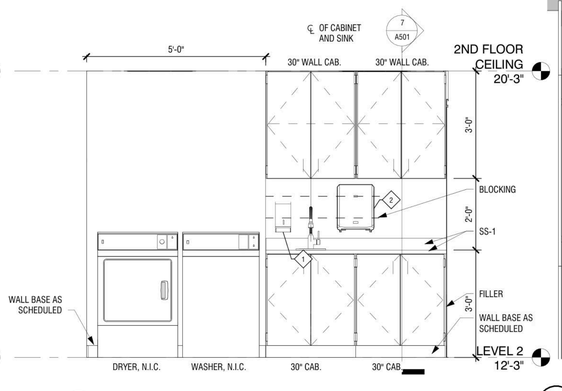
5 A401 CASEWORK ELEVATION - WOMEN'S RR
1/2" = 1'-0" REF:4/A401



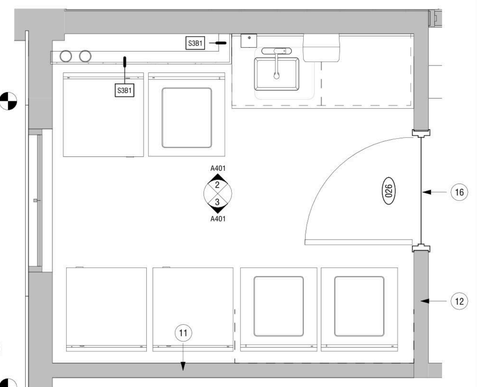
4 A401 FLOOR PLAN - WOMEN'S RR
1/2" = 1'-0" REF:1/A102



3 A401 CASEWORK ELEVATION - LAUNDRY
1/2" = 1'-0" REF:1/A401



2 A401 CASEWORK ELEVATION - LAUNDRY
1/2" = 1'-0" REF:1/A401



1 A401 FLOOR PLAN - LAUNDRY
1/2" = 1'-0" REF:1/A102

N

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WININGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

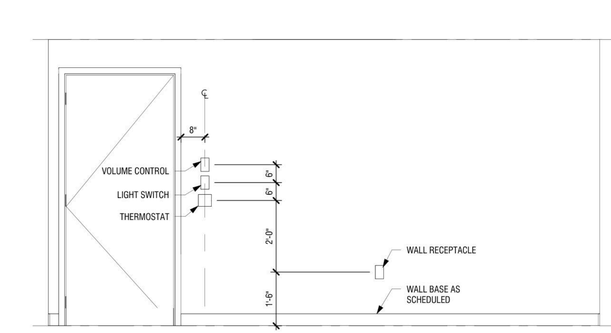
ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/2026	ERS	TLG

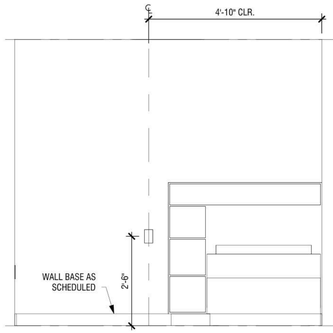
DRAWING TITLE:
LARGE SCALE VIEWS

SHEET NUMBER:
A401

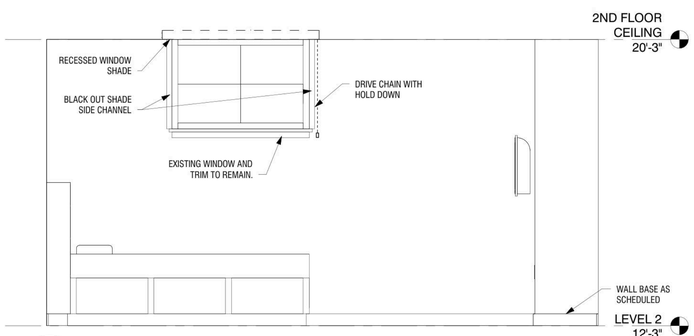
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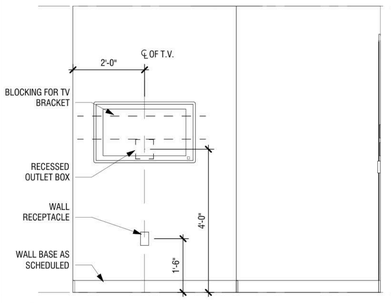
11 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



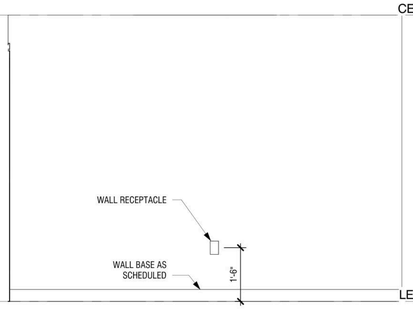
10 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



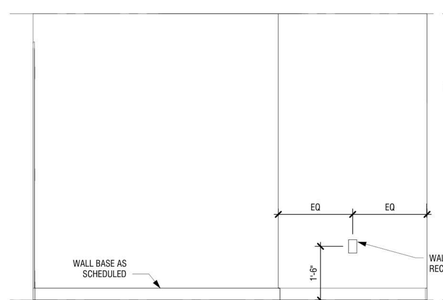
9 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



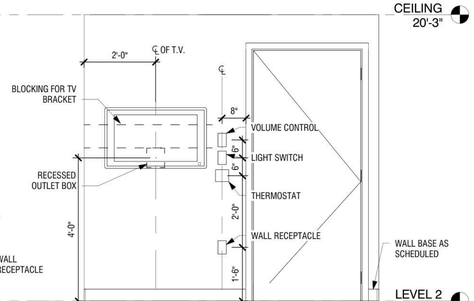
8 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



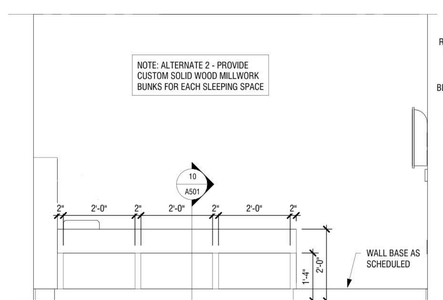
7 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



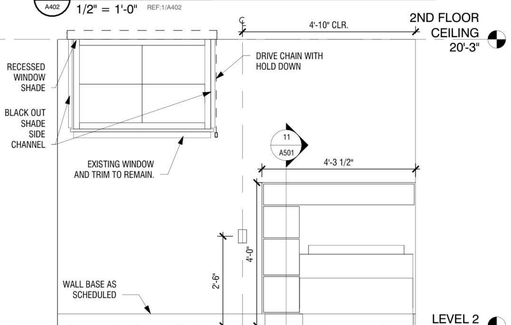
6 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



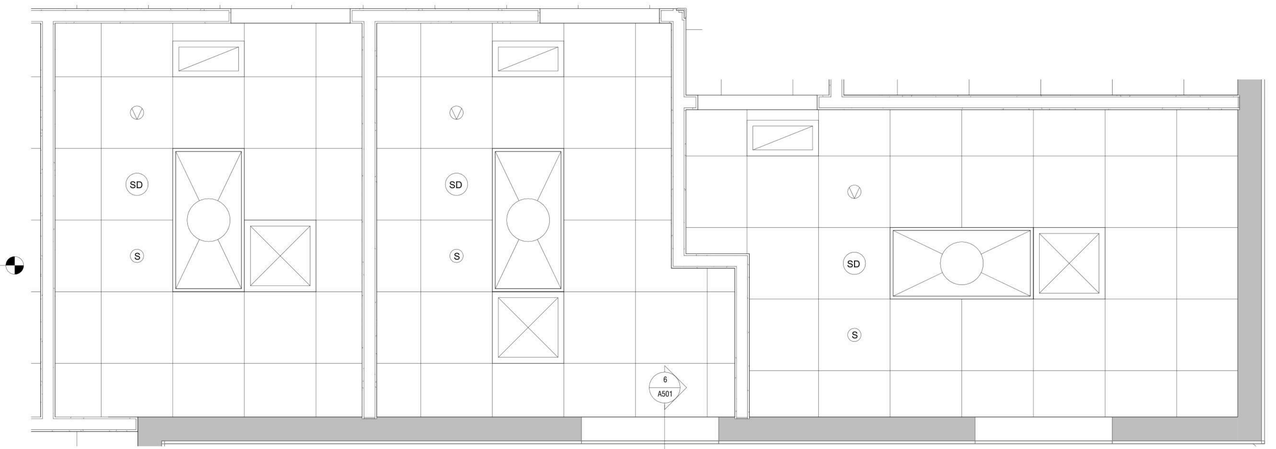
5 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



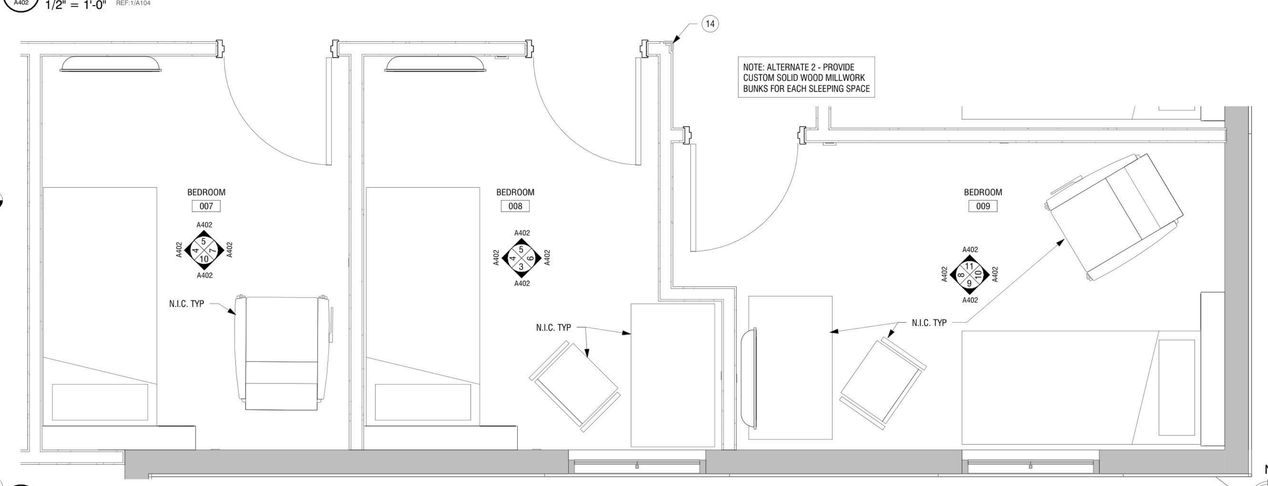
4 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



3 A402 INTERIOR ELEVATION
1/2" = 1'-0" REF:1/A402



2 A402 PARTIAL SECOND FLOOR RCP
1/2" = 1'-0" REF:1/A104



Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT
1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/2026	ERS	TLG

DRAWING TITLE:
LARGE SCALE VIEWS

SHEET NUMBER:
A402

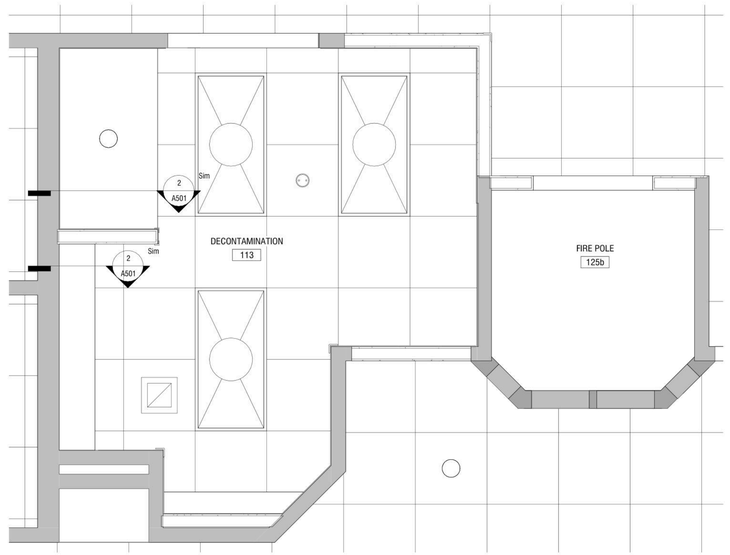
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KEY NOTES - FLOOR PLAN

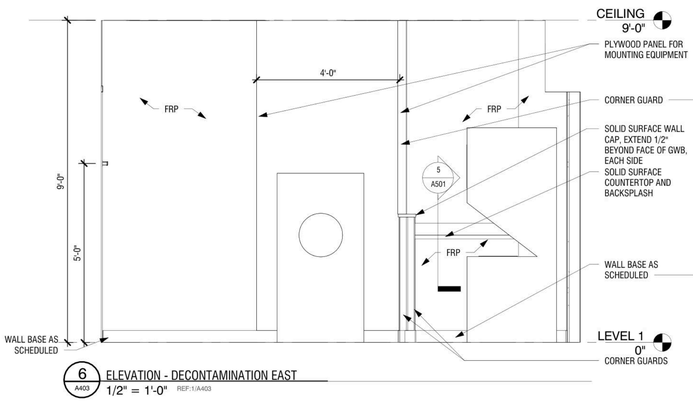
NO.	DESCRIPTION
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3.	NEW VENTED LOCKER WITH BENCH, 24" W X 24" D X 84" TALL
4.	SHOWER WITH HOSE BIB
5.	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
6.	EXISTING FIRE POLE OPENING
7.	FUTURE EXTRACTOR, PROVIDE ROUGH-INS ONLY
8.	EXTEND LOCKER FRONT, DRAWER BASE FRONT, AND BENCH AROUND CORNER AND TO END WALL AS SHOWN TO CREATE CONTINUOUS INSTALLATION
9.	INFILL WALL WHERE DOOR IS REMOVED TO MATCH SURROUNDING CONSTRUCTION
10.	INSTALL MOISTURE RESISTANT GWB, FULL HEIGHT OF STUDS, ON DECONTAMINATION SIDE OF EXISTING WALLS AND BULKHEADS. INSULATE AND SEAL WALLS FOR ACOUSTIC RATING OF 40 STC MINIMUM DEPENDING ON EXISTING WALL CONSTRUCTION.
11.	EXTEND WALL FRAMING AND GWB TO UNDERSIDE OF GWB LID ABOVE, ADD ACOUSTIC INSULATION AND MOISTURE RESISTANT GWB TO LAUNDRY ROOM SIDE OF WALL, ADD AN ADDITIONAL LAYER OF GWB TO BUNKROOM SIDE OF WALL, AND SEAL TO MEET ACOUSTIC RATING OF 50 STC MIN. DEPENDING ON EXISTING WALL CONSTRUCTION.
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16.	FLOOR FINISH MATERIALTRANSITION LINE - SEE SHEET A601 FOR DETAILS
17.	PROVIDE HOLLOW METAL FRAME CASED OPENING

ACCESSORY SCHEDULE

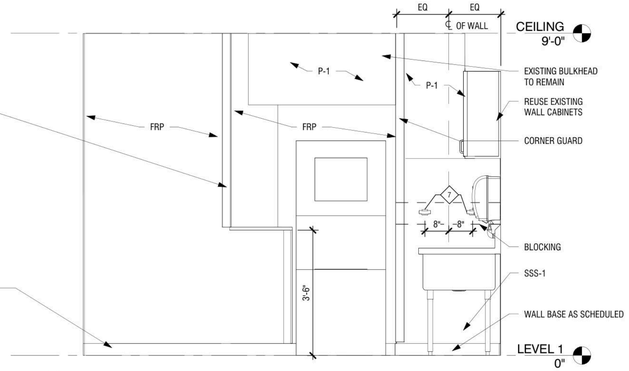
Type Mark	Type	Manufacturer/Model	Comments
1	SOAP DISPENSER		PROVIDED AND INSTALLED BY OWNER
2	PAPER TOWEL DISPENSER		PROVIDED AND INSTALLED BY OWNER
3	MIRROR 24Wx36H	B-780-2436	
4	TOILET TISSUE DISPENSER		PROVIDED AND INSTALLED BY OWNER
5	SHOWER ROD AND CURTAIN		PART OF SHOWER PACKAGE
6	SANITARY NAPKIN DISPOSAL	B-270	
7	ROBE HOOK	B-9124	



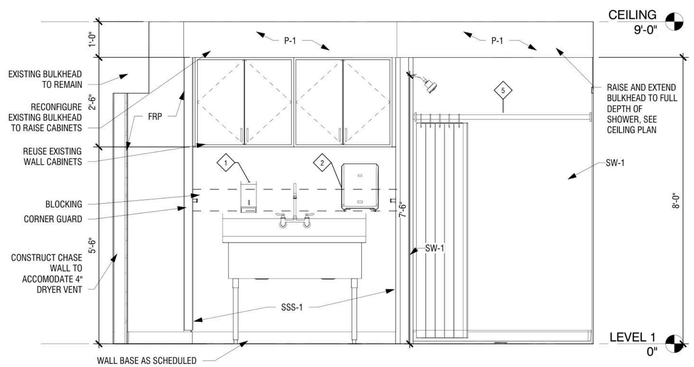
2 A403 LEVEL 1 RCP - Callout 1
1/2" = 1'-0" REF:1/A103



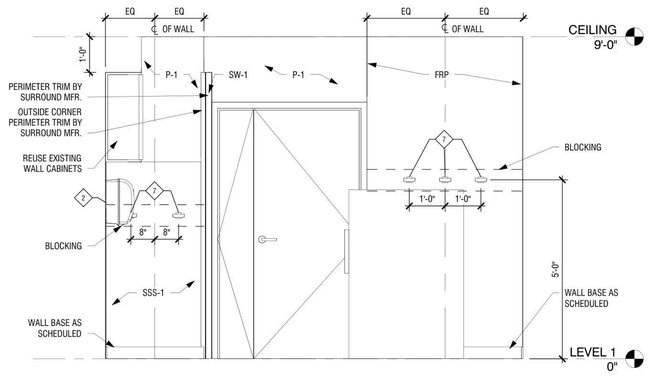
6 A403 ELEVATION - DECONTAMINATION EAST
1/2" = 1'-0" REF:1/A403



5 A403 ELEVATION - DECONTAMINATION SOUTH
1/2" = 1'-0" REF:1/A403

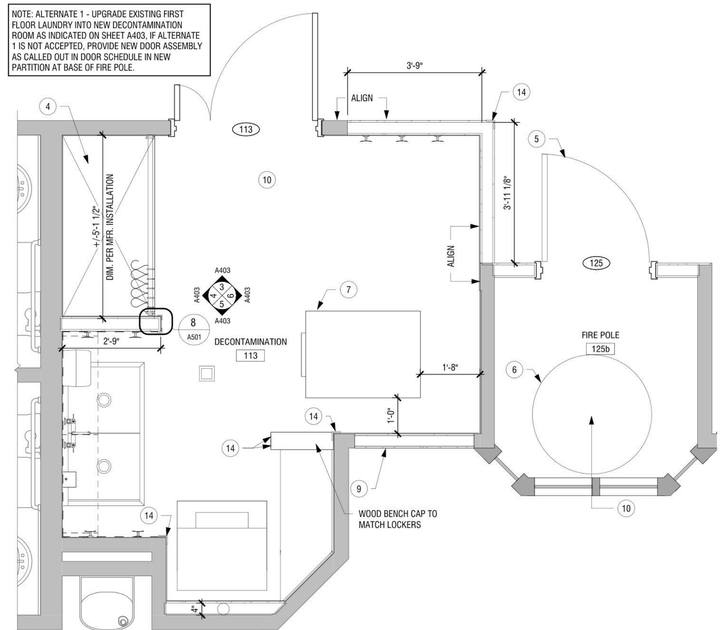


4 A403 ELEVATION - DECONTAMINATION WEST
1/2" = 1'-0" REF:1/A403



3 A403 ELEVATION - DECONTAMINATION NORTH
1/2" = 1'-0" REF:1/A403

NOTE: ALTERNATE 1 - UPGRADE EXISTING FIRST FLOOR LAUNDRY INTO NEW DECONTAMINATION ROOM AS INDICATED ON SHEET A403, IF ALTERNATE 1 IS NOT ACCEPTED, PROVIDE NEW DOOR ASSEMBLY AS CALLED OUT IN DOOR SCHEDULE IN NEW PARTITION AT BASE OF FIRE POLE.



1 A403 ENLARGED FLOOR PLAN
1/2" = 1'-0" REF:1/A101

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Etica GROUP

CARMEL ART & DESIGN DISTRICT

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
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PROFESSIONAL SEAL:
TOBY J. WINGLER
REGISTERED
No. AR10300002
STATE OF
INDIANA
ARCHITECT
1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	BY	DATE

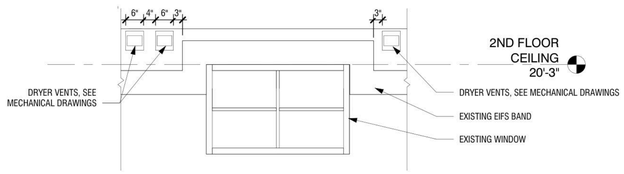
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8/14/2026	ERS	TLG

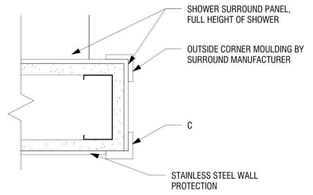
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LARGE SCALE VIEWS

SHEET NUMBER:
A403

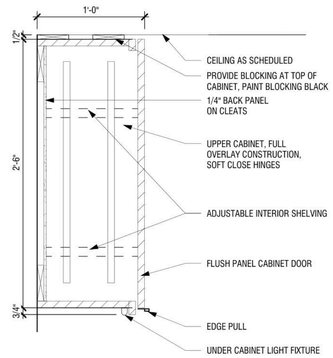
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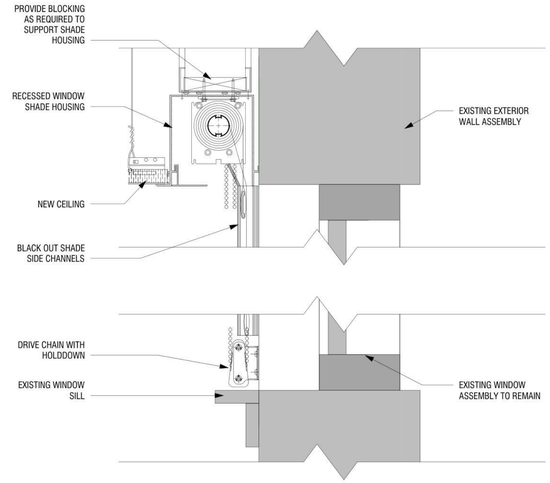
9 A501 ELEVATION - DRYER VENTS AT WINDOW
1/2" = 1'-0" REF:1/A102



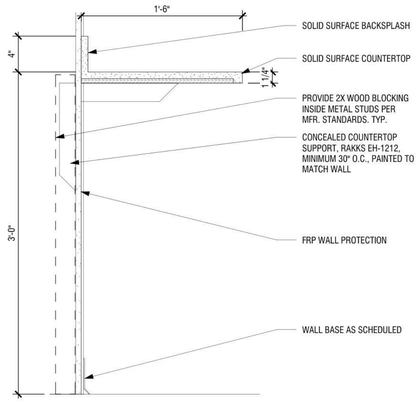
8 A501 DETAIL - WALL PROTECTION
3" = 1'-0" REF:1/A403



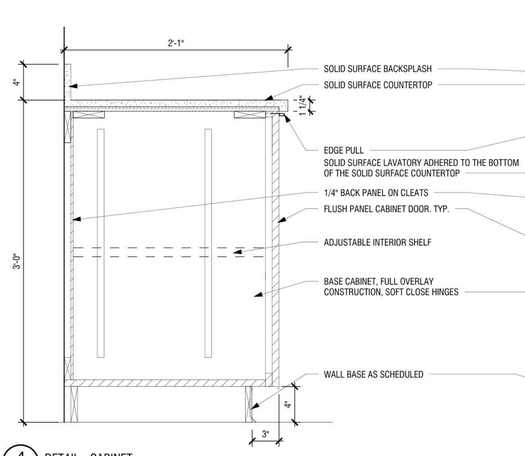
7 A501 DETAIL - WALL CABINET
1 1/2" = 1'-0" REF:2/A401



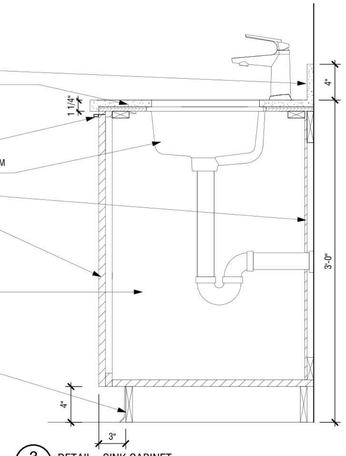
6 A501 SECTION - WINDOW
3" = 1'-0" REF:1/A104



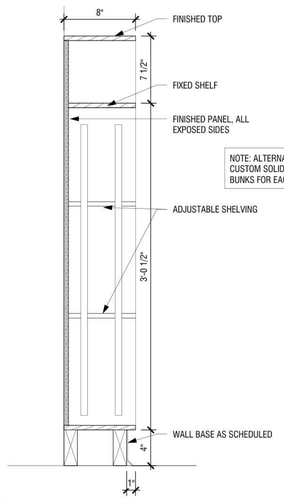
5 A501 DETAIL - COUNTER
1 1/2" = 1'-0" REF:6/A403



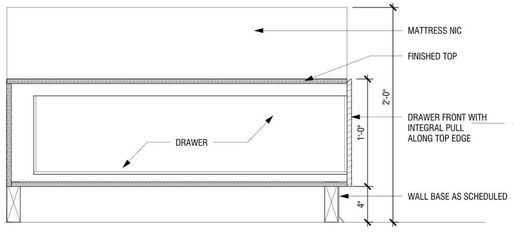
4 A501 DETAIL - CABINET
1 1/2" = 1'-0"



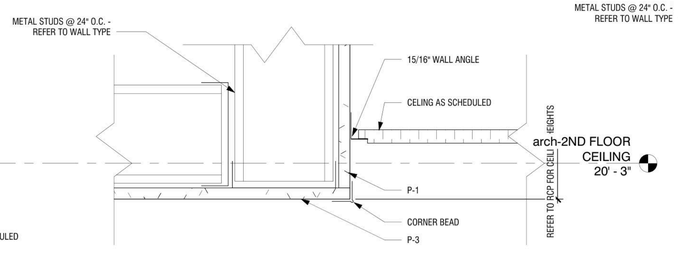
3 A501 DETAIL - SINK CABINET
1 1/2" = 1'-0" REF:7/A401



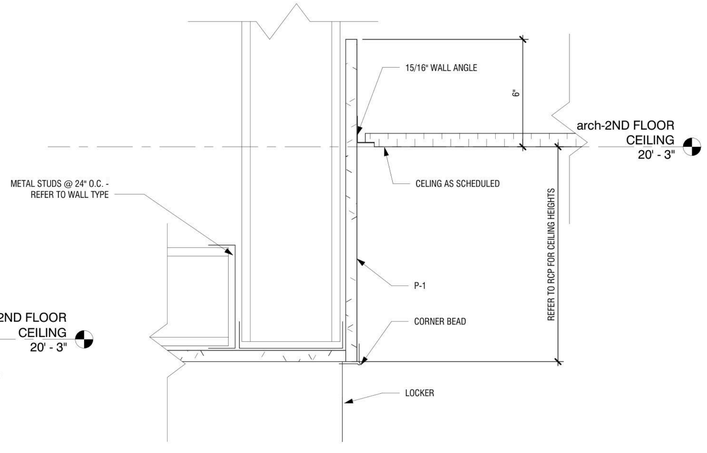
11 A501 DETAIL - HEADBOARD MILLWORK
1 1/2" = 1'-0" REF:3/A402



10 A501 DETAIL - BUNK MILLWORK
1 1/2" = 1'-0" REF:4/A402



2 A501 BULKHEAD
3" = 1'-0" REF:1/A104



1 A501 BULKHEAD
3" = 1'-0" REF:1/A104

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

TOBY J. WINIGER
REGISTERED
No AR10300002
STATE OF
INDIANA
ARCHITECT
1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/2026	ERS	TLG

DRAWING TITLE:
DETAILS

SHEET NUMBER:
A501

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DOOR AND FRAME SCHEDULE

NO.	ROOM	DOOR					FRAME		DETAILS		REMARKS	COMMENTS	HDWR SET
		TYPE	QTY.	WIDTH	HEIGHT	MAT.	TYPE	MAT.	HEAD	JAMB			
LEVEL 1													
113	DECONTAMINATION	A	DBL.	1' / 3'	7'-0".	SCWD	F1	HM			PRIVACY	3	5
119	CORRIDOR	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	F1	HM	4/A600	3/A600	SALVAGE AND REUSE EXISTING FITNESS DOOR	--	4
125	FIRE POLE	D	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PUSH / PULL	1	6
LEVEL 2													
001	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
002	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
003	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
004	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
005	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
006	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
007	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
008	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
009	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
010	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
011	BEDROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	9
027	STORAGE	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PASSAGE	--	3
028	UNISEX RR	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PRIVACY	3	8
029	MOTHER'S ROOM	A	SGL	3'-6"	7'-0"	SCWD.	F1	HM	2/A600	1/A600	PRIVACY LATCH. OVERSIZE DOOR - 4' SLAB	2	13
030	QUIET ROOM	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	OFFICE	3	1
031	MECHANICAL	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	--	--	EXISTING DOOR FRAME TO REMAIN IN PLACE, STOREROOM	--	7
035	WOMEN'S LOCKERS	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	STOREROOM WITH CARD READER	--	12
040	MEN'S LOCKERS	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	4/A600	3/A600	PUSH / PULL	--	2
041	JANITOR'S	A	SGL	3'-0"	7'-0"	SCWD	F1	HM	--	--	EXISTING DOOR FRAME TO REMAIN IN PLACE, PASSAGE	--	3

DOOR SCHEDULE COMMENTS	
1	NEW DOOR AT FIRE POLE IS PART OF BASE BID. REUSE EXISTING DOOR AS PART OF ALTERNATE 1
2	POCKET DOOR
3	PROVIDE 47 STC RATED DOOR TO MATCH WALL ASSEMBLY

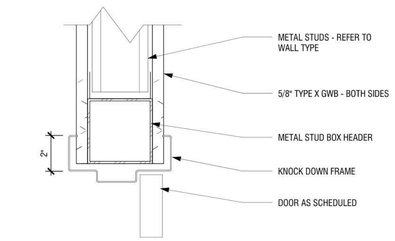
GENERAL DOOR, FRAME, AND HARDWARE NOTES

THE DOOR SCHEDULE IS FURNISHED TO ASSIST THE CONTRACTOR WITH PROVIDING A COMPLETE DOOR, FRAME AND HARDWARE PACKAGE. DO NOT CONSIDER IT AS ENTIRELY INCLUSIVE, CAREFULLY EXAMINE THE DRAWINGS (ESPECIALLY THE FLOOR PLANS) AND THE SPEICIFICATIONS TO DETERMINE THE EXTEND OF DOOR AND FRAME QUANTITIES REQUIRED (INCLUDIG INTERIOR WINDOW/SIDELIGHT OPENINGS). SHOULD ANY PARTICULAR DOOR, FRAME OR INTERIOR WINDOW/SIDELIGHT SHOWN IN THE DRAWINGS BE INADVERTEDLY OMITTED FROM THIS SCHEDULE, SUPPLY SAME AS REQUIRED FOR SIMILAR OPENINGS.

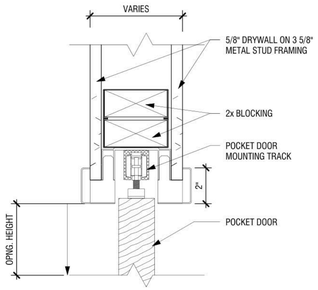
A	ALL DOOR HARDWARE MUST COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS.
B	LOCKSETS SHALL MEET ADA REQUIREMENTS IN ACCORDANCE WITH ANSI A117.1-2009.
C	THRESHOLD HEIGHT - MAXIMUM OF 1/2-INCH.
D	ALL EXTERIOR DOORS TO RECIEVE ALUMINUM THRESHOLDS, WEATHERSTRIPPING, SEALS AND GASKETS TO ASSURE WEATHER TIGHT SEAL.
E	PROVIDE APROPRIATE WALL BUMPERS, DOOR STOPS AND/OR OVERHEAD LIMITERS ON DOORS AS REQUIRED TO PROTECT ADJACENT SURFACES AND FINISHES.
F	ALL INTERIOR DOORS TO RECEIVE HINGES PER SPECIFICATIONS.
G	ALL EXTERIOR DOORS TO RECEIVE CONTINUOUS HINGES PER SPECIFICATIONS.
H	THE HINGE SIDE OF ALL INTERIOR DOOR FRAMES SHALL BE LOCATED 4" FROM ADJACENT CONSTRUCTION, UNLESS NOTED OTHERWISE.
I	LOCATE AND INSTALL SAFETY GLAZING PER STATE AND LOCAL CODES AND ORDINANCES.
J	ALL SOLID CORE WOOD DOORS SHALL BE FACTORY FINISHED. STAIN COLOR TO MATCH EXISTING.
K	ALL FRAME WIDTHS ARE 2" UNLESS NOTED OTHERWISE. CONTRACTOR SHALL COORDINATE FRAME DEPTH REQUIRED WITH WALL TYPES, CONDITIONS, AND DETAILS.
L	IF DOUBLE DOOR IS RATED, AUTOFLUSH BOLTS AND COORDINATORS ARE REQUIRED.
M	REFER TO DOOR HARDWARE SCHEDULE FOR DOOR HARDWARE

MATERIAL KEY	
HM	HOLLOW METAL
AL	ALUMINUM - CLEAR ANODIZED
FRP	FIBER REINFORCED PLASTIC (POLYMER)
SCWD	SOLID CORE WOOD DOOR
SRWD	STILE AND RAIL WOOD DOOR
STL	STEEL
SS	STAINLESS STEEL
ST-1	FACTORY FINISHED PER ROOM FINISH SCHEDULE
P-1	PAINTED FINISH PER ROOM FINISH SCHEDULE
P-2	PAINTED FINISH PER ROOM FINISH SCHEDULE

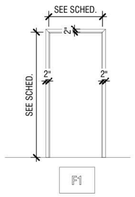
GLAZING KEY	
TG-1	1/4" TEMPERED SAFETY GLAZING
LG-1	1/4" LAMINATED SAFETY GLAZING
IG-1	1" CLEAR INSULATED GLAZING WITH LOW-E COATING ON 2ND SURFACE
FG-1	TRANSLUCENT PRIVACY GLAZING
	Assembly Code



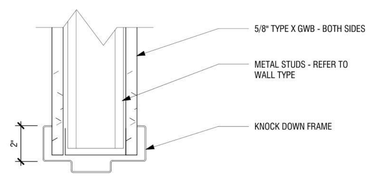
4 A600 HM DOOR HEAD DETAIL
3" = 1'-0"



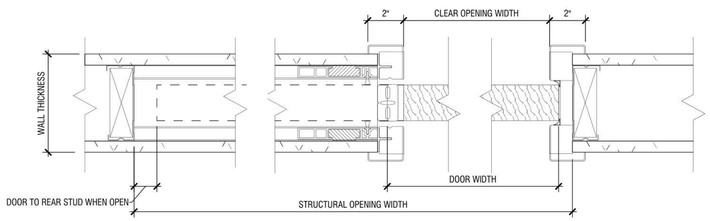
2 A600 POCKET DOOR HEAD
3" = 1'-0"



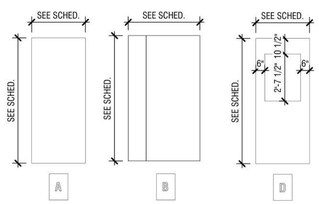
DOOR FRAME ELEVATIONS
1/4" = 1'-0"



3 A600 HM JAMB DETAIL
3" = 1'-0"



1 A600 POCKET DOOR JAMB
3" = 1'-0"



DOOR ELEVATIONS
1/4" = 1'-0"

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT 1-15

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED
1			

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/2026	ERS	TLG

DRAWING TITLE:
DOOR & WINDOW SCHEDULES, ELEVATIONS

SHEET NUMBER:
A600

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FINISH LEGEND

FLOOR / BASE FINISHES

CODE	MATERIAL	MANUFACTURER	PATTERN/STYLE	COLOR	NUMBER	SIZE	REMARKS
CPT-1	CARPET TILE	PATCRAFT	MATERIAL PARADOX/NOCTURNE	LUMEN	--	9" X 36" PLANKS	--
C-1	POLISHED CONCRETE	--	--	--	--	--	--
C-2	SEALED CONCRETE	--	--	--	--	--	--
T-1	TILE	DALTILE	COLOR WHEEL MOSAIC	MATCH EXISTING	--	--	ALT. 3 - FINISH UNISEX RR, MOTHER'S ROOM, AND LAUNDRY WITH T-1
RB-1	RUBBER TILE FLOORING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	--	--	--
ETR	EXISTING TO REMAIN	--	--	--	--	--	--
VB-1	VINYL BASE	JOHNSONITE	4" COVE	CHARCOAL	20	4"H	--
TB-1	TILE BASE	CROSSVILLE	PORTUGAL	TO BE SELECTED	-	6" X 24"	CAP WITH SCHLUTER JOLLY TRIM ALONG TOP EDGE

WALL FINISHES

CODE	MATERIAL	MANUFACTURER	PATTERN/STYLE	COLOR	NUMBER	SIZE	REMARKS
P-1	PAINT	SHERWIN WILLIAMS	EGGSHELL SHEEN	REPOSE GREY	7015	--	GENERAL PAINT
P-2	PAINT	SHERWIN WILLIAMS	EGGSHELL SHEEN	GRIZZLE GRAY	7068	--	ACCENT PAINT
P-3	PAINT	SHERWIN WILLIAMS	FLAT SHEEN	CEILING BRIGHT WHITE	7007	--	CEILING PAINT
P-4	PAINT	SHERWIN WILLIAMS	SEMI GLOSS	GRIZZLE GRAY	7068	--	TRIM AND CASING
WT-1	WALL TILE	CROSSVILLE	PORTUGAL	TO BE SELECTED	--	12" X 24"	RUNNING BOND PATTERN ORIENTED VERTICALLY, SEE INTERIOR ELEVATION
ETR	EXISTING TO REMAIN	--	--	--	--	--	PROTECT DURING CONSTRUCTION

SURFACE FINISHES

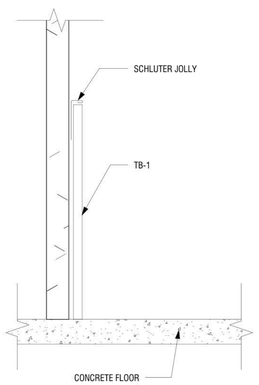
CODE	MATERIAL	MANUFACTURER	PATTERN/STYLE	COLOR	NUMBER	SIZE	REMARKS
SS-1	SOLID SURFACE	DUPONT CORIAN	EASED EDGE	ARCTIC ICE	7068	--	NEW COUNTERTOPS
WD-1	WOOD VENEER PLYWOOD	--	--	--	--	--	MILLWORK BED ASSEMBLIES
ETR	EXISTING TO REMAIN	--	--	--	--	--	PROTECT DURING CONSTRUCTION

MISC. FINISHES

CODE	MATERIAL	MANUFACTURER	PATTERN/STYLE	COLOR	NUMBER	SIZE	REMARKS
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	DUNE / TEGULAR	WHITE	--	24"X24"	15/16" GRID
ACT-2	ACOUSTIC CEILING TILE	CERTAINTEED	VINYL ROCK / SQUARE	WHITE	--	24"X24"	WATER RESISTANT 15/16" GRID
CG-1	CORNER GUARD	CS ACROVYN	4000 SFS 20N	DRIFT WOOD	--	2" LEGS	MATCH EXISTING
DR-1	DOORS	--	--	--	--	--	MATCH EXISTING WOOD DOOR FINISH
SW-1	SHOWER WALLS	INPRO	PRISM SOLID SURFACE WALL CLADDING / SMOOTH PANEL WITH 8" SOAP SHELF AND SHOWER CURTAIN SYSTEM	TO BE SELECTED FROM CATEGORY B COLOR OPTIONS	--	FULL HT AND WD X 1/4"	--
SB-1	SHOWER BASE	INPRO	PRISM / STANDARD SHOWER BASE	TO BE SELECTED FROM CATEGORY A COLOR OPTIONS	--	60" X 32"	--
LB-1	LAVATORY BOWL	CORIAN	INTEGRAL SINK / CHIC	GLACIER WHITE	--	--	SEE PLUMBING DRAWINGS
SHS-1	SINGLE ROLLER SHADE	MECHO	M7 MANUAL WITH RECESSED HOUSING	TO BE SELECTED FROM DISTINCTIVE BLACK OUT OPTIONS	--	--	INCLUDE FASCIA AND SIDE CHANNELS, BLACK CLOTH TO BE EGOGLASS BLACKOUT 2820 SERIES
FRP	FIBERGLASS REINFORCED PLASTIC	MARLITE	STANDARD / PEBBLE	TO BE SELECTED	--	4' X 10'	--
SSS-1	STAINLESS STEEL SHEET	CS ACROVYN	SMOOTH	#4 SATIN FINISH	--	4x8x0.0625" THICK	CUT TO SIZE INDICATED

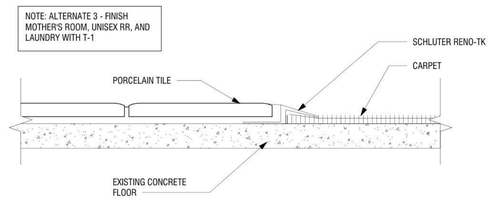
ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	North Wall Finish	South Wall Finish	East Wall Finish	West Wall Finish	CEILING FINISH	COMMENTS
115	FITNESS	RB-1	MATCH EXIST.	P-1	P-1	P-1	P-1	ACT-1	RE-PAINT ENTIRE ROOM, INFILL FLOORING AT NEW ENTRY TO BLEND WITH EXISTING FLOORING, NEW WALL BASE ANTICIPATED AT NEW WALLS ONLY
113	DECONTAMINATION	C-1	VB-1	FRP	FRP	FRP	SSS-1	ACT-2	SOLID SURFACE SURROUND IN SHOWER
125b	FIRE POLE	ETR	ETR	P-1	P-1	P-1	P-1	P-3	RE-PAINT ENTIRE ROOM
001	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
002	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
003	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
004	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
005	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
006	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
007	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
008	BEDROOM	CPT-1	VB-1	P-1	P-2	P-1	P-1	ACT-1	
009	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
010	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
011	BEDROOM	CPT-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	
027	STORAGE	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	
028	UNISEX RR	C-1	TB-1	WT-1	P-1	P-1	P-1	ACT-2	SOLID SURFACE SURROUND IN SHOWER. ALT. 3 - FINISH UNISEX RR, MOTHER'S ROOM, AND LAUNDRY WITH T-1
029	MOTHER'S ROOM	C-1	VB-1	P-2	P-1	P-1	P-1	ACT-1	ALT. 3 - FINISH UNISEX RR, MOTHER'S ROOM, AND LAUNDRY WITH T-1
030	QUIET ROOM	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	
031	MECHANICAL	C-2	VB-1	ETR	ETR	ETR	ETR	--	CELING TO BE OPEN TO GWB LID ABOVE
032	VESTIBULE	CPT-1	VB-1	P-4	P-2	P-1	P-1	ACT-1	
033	CORRIDOR	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	
034	VESTIBULE	CPT-1	VB-1	P-4	P-2	P-1	P-1	ACT-1	
035	WOMEN'S LOCKERS	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	RE-PAINT ENTIRE LOCKER PORTION OF ROOM
040	MEN'S LOCKERS	CPT-1	VB-1	P-1	P-1	P-1	P-1	ACT-1	RE-PAINT ENTIRE LOCKER PORTION OF ROOM

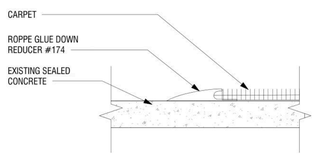


6 A601 FLOOR TO WALL TRANSITION_CONCRETE TO TILE
6" = 1'-0"

NOTE: ALTERNATE 3 - FINISH MOTHER'S ROOM, UNISEX RR, AND LAUNDRY WITH T-1



2 A601 FLOOR TRANSITION_CARPET TO TILE
6" = 1'-0"

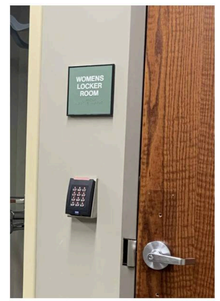


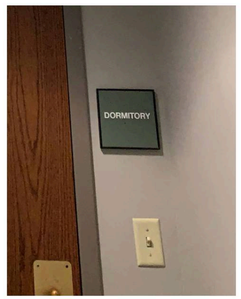
1 A601 FLOOR TRANSITION_CARPET TO CONC
6" = 1'-0"

SIGNAGE SCHEDULE

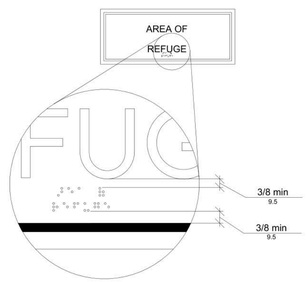
LOCATION	ROOM SIGN	EGRESS SIGN
FITNESS	REUSE EXIST.	
DECONTAMINATION	REUSE EXIST.	
FIRE POLE		
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
BEDROOM	X	X
LAUNDRY	X	
STORAGE	X	
UNISEX RR	X	
MOTHER'S ROOM	X	
QUIET ROOM	X	X
MECHANICAL	X	
VESTIBULE		
CORRIDOR		
VESTIBULE		
WOMEN'S LOCKERS	X	
MEN'S LOCKERS	X	



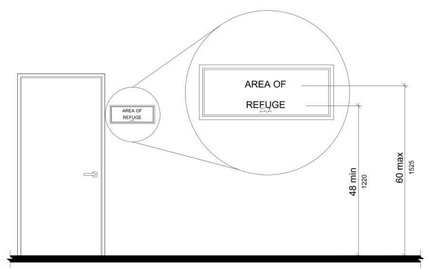




5 A601 EXISTING ROOM SIGNAGE PHOTOS
3" = 1'-0"



3 A601 POSITION OF BRAILLE
3/8" = 1'-0"



4 A601 HEIGHT OF TACTILE CHARACTERS ABOVE FLOOR OR GROUND
3/8" = 1'-0"

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:
TOBY J. WINIGER REGISTERED No. AR10300002 STATE OF INDIANA ARCHITECT

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/2026	ERS	TLG

DRAWING TITLE:
ROOM FINISH SCHEDULE

SHEET NUMBER:
A601

Autodesk Docs://250060 - Carmel Fire Station 42&46/250060 Carmel Fire Station 46.rvt
8/17/2026 12:37:07 PM

NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS NOT NECESSARILY USED ON THIS PROJECT.

VALVES & FITTINGS:

- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- BALANCING VALVE
- PLUG VALVE
- CONTROL VALVE
- SOLENOID VALVE
- NEEDLE VALVE
- THERMAL EXPANSION VALVE
- AUTOMATIC BALANCE VALVE
- BACK FLOW PREVENTER
- PRESSURE REDUCING, SELF CONTAINED VALVE
- PRESSURE REDUCING, PILOT OPERATED VALVE
- RELIEF, PILOT OPERATED VALVE
- ANGLE GLOBE VALVE
- PRESSURE SAFETY, ANGLE TYPE VALVE
- THREE WAY BALL VALVE
- THREE WAY GLOBE VALVE
- THREE WAY PLUG VALVE
- MOTORIZED VALVE
- MOTORIZED VALVE
- THREE WAY CONTROL VALVE
- PIPE TURN 90°
- LINE BREAK
- PIPE ELBOW UP (RISER)
- PIPE ELBOW DOWN
- PIPE TEE DOWN
- CAP OR PLUG
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC
- Y-STRAINER
- FLEXIBLE CONNECTION
- FLANGES
- UNION
- PIPE GUIDE
- PIPE ANCHOR
- FILTER (INLINE)
- GAUGE
- THERMOMETER
- STEAM TRAP
- PRESSURE SENSOR
- PUMP

VALVES & FITTINGS:

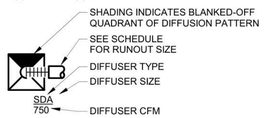
- MATERIAL CHANGE
- AUTOMATIC AIR VENT
- DRAIN
- FLOW METER

GENERAL SYMBOLS:

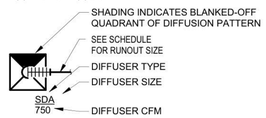
- POINT OF CONNECTION
- POINT OF REMOVAL
- PLAN NOTE
- DEMOLITION NOTE
- REVISION
- DETAIL BUBBLE
- SECTION BUBBLE

DIFFUSERS & REGISTERS

SUPPLY DIFFUSER:



SUPPLY DIFFUSER:



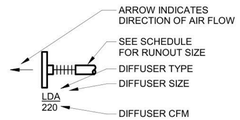
RETURN/EXHAUST GRILLE:



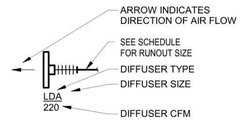
RETURN/EXHAUST GRILLE:



LINEAR BAR & SLOT DIFFUSER:

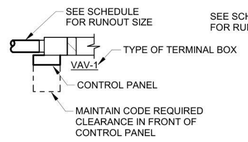


LINEAR BAR & SLOT DIFFUSER:

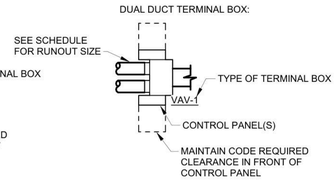


TERMINAL BOXES

SINGLE-DUCT TERMINAL BOX WITH REHEAT COIL



DUAL DUCT TERMINAL BOX:



DUCTWORK:

- SUPPLY ARROW
- RETURN/EXHAUST ARROW
- THERMOSTAT
- THERMOSTAT, LOCKED
- HUMIDISTAT
- SENSOR
- SUPPLY UP
- SUPPLY DOWN
- RETURN/EXHAUST UP
- RETURN/EXHAUST DOWN
- ROUND UP
- ROUND DOWN
- FLAT OVAL SUPPLY UP
- FLAT OVAL SUPPLY DOWN
- 16x12 — RECTANGULAR DUCT WIDTH x HEIGHT
- 16"ø — ROUND DUCT DIAMETER
- 16x12ø — FLAT OVAL DUCT WIDTH x HEIGHT
- 90° MITERED ELBOW WITH TURNING VANES
- w, (r=w), r — ELBOW
- DUCT END CAP
- 15° MAX — DUCT TRANSITION - SLOPED BOTH SIDES
- 15° MAX — DUCT TRANSITION - FLAT ON ONE SIDE
- FLEXIBLE DUCT
- VOLUME DAMPER
- FD — FIRE DAMPER
- M — MOTORIZED DAMPER
- BDD — BACKDRAFT DAMPER
- AD — ACCESS DOOR
- FAN (OR PUMP)

DUCTWORK:

SINGLE LINE REPRESENTATION:

- SUPPLY UP
- SUPPLY DOWN
- RETURN/EXHAUST UP
- RETURN/EXHAUST DOWN
- ROUND UP
- ROUND DOWN
- FLAT OVAL SUPPLY UP
- FLAT OVAL SUPPLY DOWN
- 16x12 — RECTANGULAR DUCT WIDTH x HEIGHT
- 16"ø — ROUND DUCT DIAMETER
- 16x12ø — FLAT OVAL DUCT WIDTH x HEIGHT
- DUCT TURN 90°
- DUCT END CAP
- DUCT TRANSITION - SLOPED ON BOTH SIDES
- DUCT TRANSITION - FLAT ON ONE SIDE
- FLEXIBLE DUCT
- VOLUME BALANCE DAMPER
- FD — FIRE DAMPER
- M — MOTORIZED DAMPER
- BDD — BACKDRAFT DAMPER

PIPING DESIGNATIONS:

- NEW
- EXISTING TO REMAIN
- DEMOLITION
- FUTURE
- PIPE SLOPES IN DIRECTION OF ARROW

FLOW/CONTROL SYMBOLS:

- AI — ANALOG INPUT
- AO — ANALOG OUTPUT
- BI — BINARY INPUT
- BO — BINARY OUTPUT
- CO2 — CARBON DIOXIDE SENSOR
- CS — CURRENT SENSOR
- ΔP — DIFFERENTIAL PRESSURE SENSOR
- S — DUCT SMOKE DETECTOR
- ES — END SWITCH
- H — HUMIDITY SENSOR
- LL — LOW LIMIT TEMPERATURE SENSOR
- M — DAMPER MOTOR
- P — PRESSURE SENSOR
- T — TEMPERATURE SENSOR
- AIR FLOW MEASURING STATION
- AIR HANDLER FAN
- CONTROL VALVE
- HYDRONIC PUMP
- MS — MOTOR STARTER
- VFD — VARIABLE FREQUENCY DRIVE
- FM — FLOW METER

MECHANICAL ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AH	(PARAMETER) ALARM HIGH
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	(PARAMETER) ALARM LOW
AS	AIR SEPARATOR
ASD	ADJUSTABLE SPEED DRIVE (ALSO VFD)
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CH	CHILLER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
℄	CENTERLINE
CO	CLEANOUT
CP	CONDENSATE PUMP
CTF	COOLING TOWER FAN
CTWR	COOLING TOWER WATER RETURN
CTWS	COOLING TOWER WATER SUPPLY
CU	COPPER
CS	CARBON STEEL
CV	CONTROL VALVE
CW	DOMESTIC COLD WATER
D	DRAIN
DB	DRY BULB
DCV	DOUBLE CHECK VALVE
DIA	DIAMETER
DN	DOWN
DPI	DIFFERENTIAL PRESSURE INDICATOR
DPS	DIFFERENTIAL PRESSURE SENSOR
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
ET	EXPANSION TANK
EX	EXISTING
F	FILTER
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FE	FLOW ELEMENT
FLA	FULL LOAD AMPS
FT	FLOW TRANSMITTER
HE	HEAT EXCHANGER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HWRP	HOT WATER RECIRCULATION PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HV	HAND VALVE
LI	LEVEL INDICATOR
LSH	LEVEL SENSOR HIGH
LSL	LEVEL SENSOR LOW
LSLL	LEVEL SENSOR LOW LOW
N2	NITROGEN
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
PH	PHASE
PI	PRESSURE INDICATOR
PIT	PRESSURE INDICATING TRANSMITTER
PRV	PRESSURE REGULATING VALVE
PS	PRESSURE SWITCH
PSV	PRESSURE SAFETY VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PRESSURE TRANSMITTER
PWR	PURIFIED WATER RETURN
PWS	PURIFIED WATER SUPPLY
RF	RETURN FAN
RG	RETURN GRILLE
RO	REVERSE OSMOSIS
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
S	STEAM
SC	STEAM CONDENSATE OR SPEED CONTROLLER
SAN	SANITARY
SD	SUPPLY DIFFUSER
SF	SUPPLY FAN
SFT	SOFT WATER
STR	STRAINER
TI	TEMPERATURE INDICATOR
TT	TEMPERATURE TRANSMITTER
V	VENT
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE (ALSO ASD)
VTR	VENT THROUGH ROOF
WB	WET BULB
WH	WALL HYDRANT
ZS	LIMIT SWITCH

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Carmel Fire Station No. 46
3610 West 106th Street
Carmel, Indiana 46032

Carmel Fire Department
540 W 136th St
Carmel, IN 46032

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PROFESSIONAL SEAL:



PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE:
MECHANICAL SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:
M001

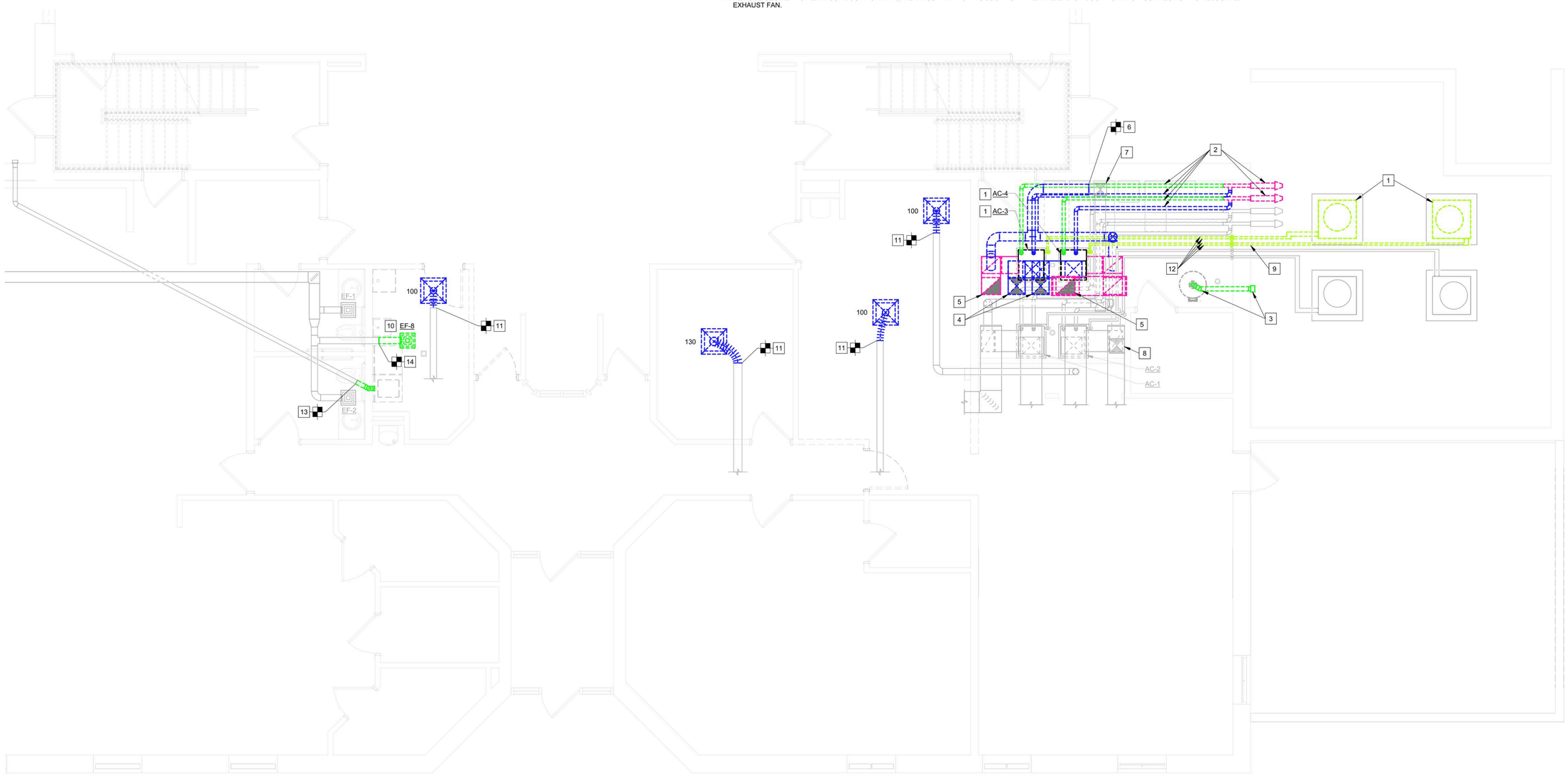
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DEMOLITION NOTES:

1. DEMO THE TWO EXISTING AIR HANDLERS SERVING THE SECOND FLOOR COMPLETE. REMOVE ALL SUPPLY AND RETURN DUCTWORK AND REFRIGERANT TUBING. REMOVE FLUE AND COMBUSTION AIR PVC TO POINT INDICATED. REMOVE ALL HANGERS AND SUPPORTS THAT ARE NO LONGER REQUIRED. REMOVE OUTDOOR CONDENSING UNIT COMPLETE. RECOVER REFRIGERANT AND DISPOSE ACCORDING TO ALL LOCAL AND FEDERAL REGULATIONS.
2. REMOVE FLUE AND COMBUSTION AIR PVC PIPING FROM AIR HANDLER THRU EXTERIOR WALL COMPLETE. REMOVE THRU-THE-WALL VENT KIT COMPLETE. TEMPORARILY COVER THE OPEN WALL PENETRATION DURING CONSTRUCTION. THE WALL PENETRATION MAY BE REUSED FOR NEW HYDRONIC BOILER VENT KIT.
3. REMOVE FLUE DUCTWORK FROM THE DOMESTIC WATER HEATER THRU EXTERIOR WALL COMPLETE. REMOVE THRU-THE-WALL TERMINATION FITTING COMPLETE. TEMPORARILY COVER THE OPEN WALL PENETRATION DURING CONSTRUCTION. THE WALL PENETRATION MAY BE REUSED FOR NEW DOMESTIC WATER HEATER VENT KIT.
4. REMOVE SUPPLY DUCTWORK AND HANGERS IN MECHANICAL ROOM AND UP TO SECOND FLOOR ABOVE COMPLETE.
5. REMOVE RETURN DUCTWORK AND HANGERS IN MECHANICAL ROOM AND UP TO SECOND FLOOR ABOVE COMPLETE.
6. REMOVE OUTSIDE AIR DUCT AND HANGERS FROM TWO EXISTING AIR HANDLERS TO THIS POINT. CAP END OF DUCT TO SEAL AIRTIGHT. INSULATE OVER CAPPED DUCT END FOR A FULLY INSULATED DUCT SYSTEM.
7. EXISTING DUCT UP TO EXISTING OUTSIDE AIR INTAKE HOOD ON ROOF. DUCT AND OUTSIDE AIR INTAKE HOOD TO REMAIN.
8. EXISTING OUTSIDE AIR INTAKE HOOD ABOVE WITH 14"x14" OPENING. REMOVE MOTORIZED DAMPER AND CONTROL WIRING TO DAMPER COMPLETE. REMOVE ANY DAMAGED DUCTWORK OR DUCTWORK WITH REMAINING HOLES. PREPARE REUSABLE 14"x14" DUCTWORK END UNDER OUTSIDE AIR INTAKE HOOD FOR CONNECTION TO NEW DUCTWORK. SEE NEW PLANS FOR NEW DUCTWORK.
9. SEAL EACH OPENING IN WALL WHERE REFRIGERANT PIPING IS TO BE REMOVED.
10. TEMPORARILY REMOVE CEILING EXHAUST FAN. PROTECT DURING CONSTRUCTION. EXHAUST FAN WILL BE REINSTALLED IN NEW CEILING IN THIS ROOM.
11. TEMPORARILY REMOVE DIFFUSER IN CEILING. EXISTING DIFFUSER WILL BE REINSTALLED IN NEW CEILING IN THIS ROOM. REMOVE AND DISPOSE OF FLEXIBLE DUCTWORK.
12. REMOVE REFRIGERANT PIPING COMPLETE BETWEEN AIR HANDLERS AND CONDENSING UNITS.
13. REMOVE DRYER VENT DUCTWORK FROM DRYER LOCATION TO POINT INDICATED. PREPARE END OF EXISTING TO REMAIN DUCTWORK FOR CONNECTION TO NEW DRYER VENT DUCTWORK.
14. REMOVE SEGMENT OF EXHAUST DUCTWORK FROM EXHAUST FAN TO THIS LOCATION. PREPARE END OF DUCTWORK FOR CONNECTION TO RELOCATED EXHAUST FAN.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.



FIRST FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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Carmel Fire Station No. 46
3610 West 106th Street
Carmel, Indiana 46032

Carmel Fire Department
540 W 136th St
Carmel, IN 46032

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE: FIRST FLOOR MECHANICAL DEMOLITION PLAN

SHEET NUMBER: M101

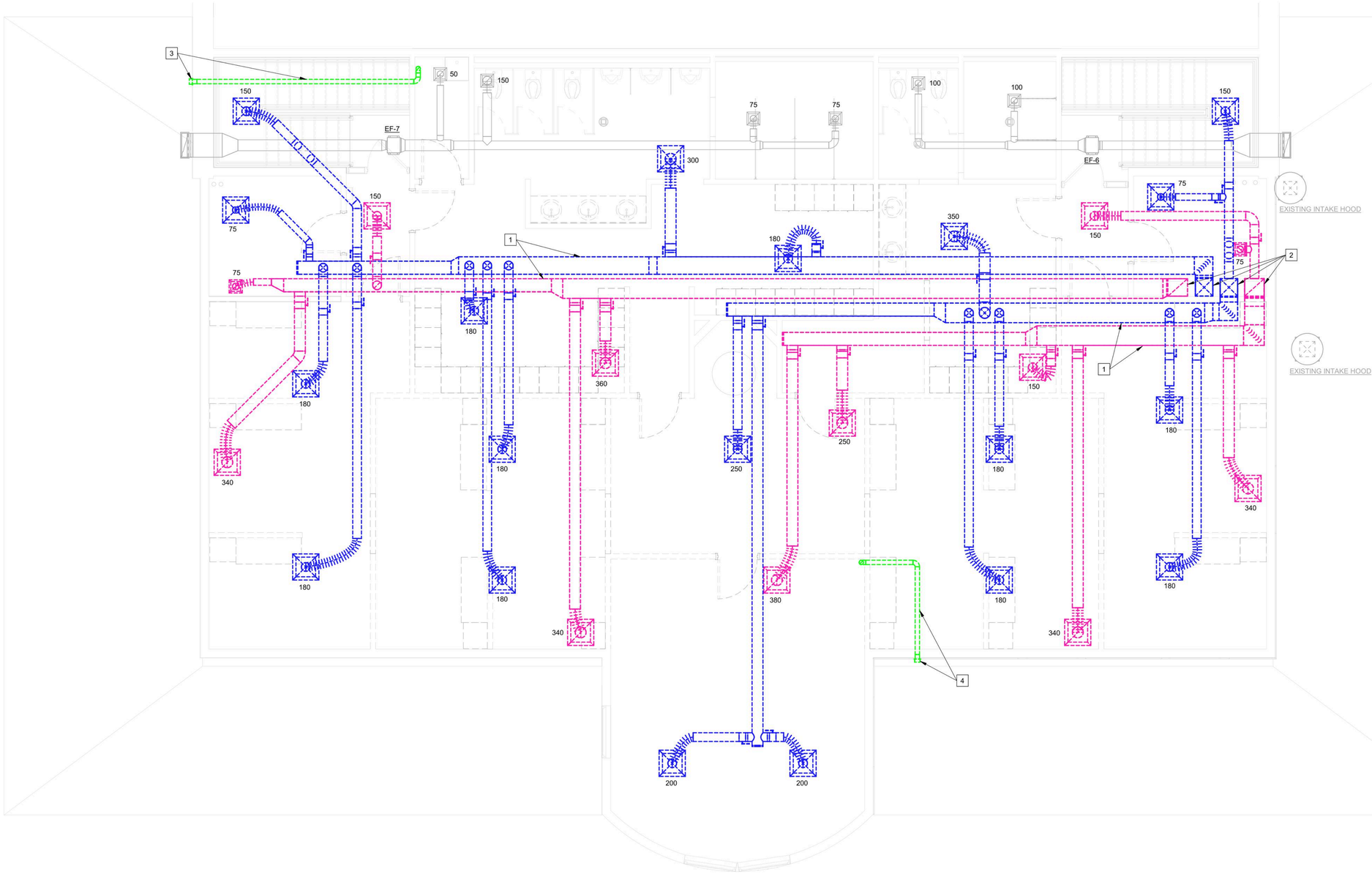
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DEMOLITION NOTES:

1. REMOVE ALL SUPPLY AIR RETURN DUCTWORK COMPLETE, INCLUDING DIFFUSERS, GRILLES, AND HANGERS.
2. REMOVE ALL SUPPLY AND RETURN DUCTWORK COMPLETE, INCLUDING HANGERS, IN CHASE DOWN TO AIR HANDLERS ON FIRST FLOOR BELOW. SEAL REMAINING OPENINGS IN FLOOR.
3. REMOVE DRYER VENT DUCTWORK AND WALL DISCHARGE HOOD COMPLETE. SEAL OPENING WITH INSULATED SHEETMETAL CAP. PAINT CAP TO MATCH BRICK COLOR.
4. REMOVE DRYER VENT DUCTWORK AND WALL DISCHARGE HOOD COMPLETE. SEAL OPENING WITH INSULATED SHEETMETAL CAP. PAINT CAP TO MATCH EXTERIOR WALL COLOR.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.



N SECOND FLOOR MECHANICAL DEMOLITION PLAN

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

8/14/2026 9:45:25 AM Autodesk Docs://250060 - Carmel Fire Station 42&46/25-150_Carmel Fire Station 46_MEP2024.rvt

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE: SECOND FLOOR MECHANICAL DEMOLITION PLAN

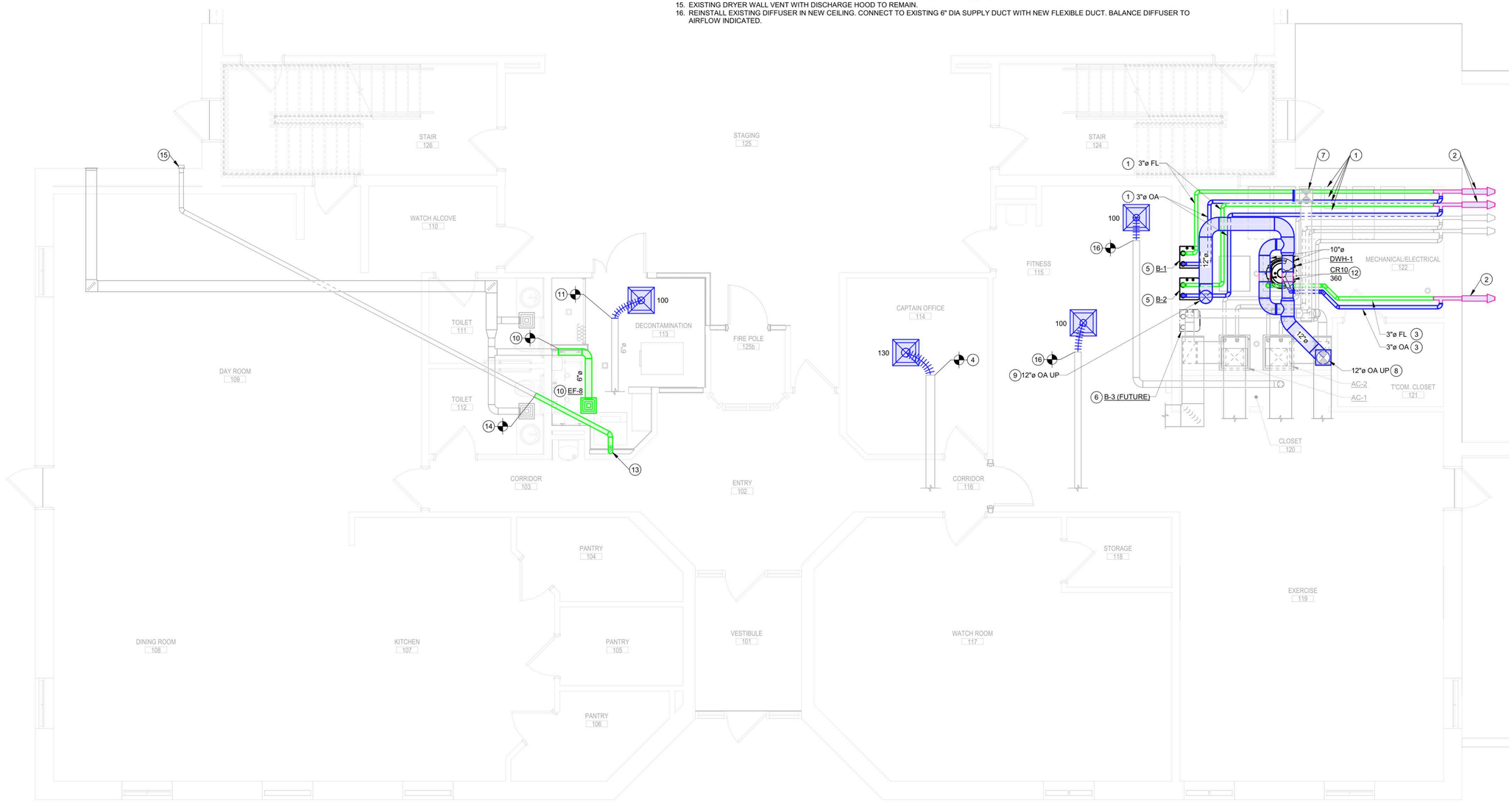
SHEET NUMBER: M111

PLAN NOTES:

1. SLOPE FLUE AND OUTSIDE AIR PIPING BACK TO BOILER MINIMUM 1/4" PER FT. SCH 40, SOLID CORE PVC FLUE AND COMBUSTION AIR PIPE.
2. NEW PVC CONCENTRIC, THRU-THE-WALL VENT KIT. CONNECT FLUE TO THE CENTER FITTING AND COMBUSTION AIR TO THE OUTER/SIDE FITTING PER MANUFACTURER'S INSTRUCTIONS. SEAL WALL AROUND VENT KIT.
3. SLOPE FLUE PIPING BACK TO WATER HEATER MINIMUM 1/4" PER FT. SCH 40, SOLID CORE PVC FLUE AND COMBUSTION AIR PIPE.
4. REINSTALL EXISTING DIFFUSER IN NEW CEILING. CONNECT TO EXISTING 8" DIA SUPPLY DUCT WITH NEW FLEXIBLE DUCT. BALANCE DIFFUSER TO AIRFLOW INDICATED.
5. SUPPORT BOILER ON WALL. SEE PIPING DRAWINGS FOR ADDITIONAL INFORMATION.
6. LEAVE SPACE CLEAR FOR FUTURE BOILER.
7. EXISTING DUCT UP TO EXISTING OUTSIDE AIR INTAKE HOOD ON ROOF.
8. CONNECT TO EXISTING 14"x14" DUCT UP TO EXISTING OUTSIDE AIR INTAKE HOOD ON ROOF ABOVE. INSULATE DUCTWORK CONTINUOUSLY TO ROOF DECK OR TERMINATION OF DUCTWORK AT INTAKE HOOD.
9. ROUTE OUTSIDE AIR DUCT UP THROUGH CHASE ON SECOND FLOOR ABOVE. CONNECT TO RETURN DUCT ABOVE CHASE.
10. MOVE EXISTING EXHAUST FAN TO THIS LOCATION IN NEW CEILING. RECONNECT TO EXISTING EXHAUST DUCTWORK. RECONNECT POWER. FAN SHALL OPERATE CONTINUOUSLY. REMOVE SWITCH ON WALL. WIRING AND POWER BY ELECTRICAL CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR. TEST AND BALANCE CONTRACTOR TO MEASURE AIRFLOW THROUGH EXHAUST FAN.
11. REINSTALL EXISTING DIFFUSER IN NEW CEILING. CONNECT TO EXISTING 6" DIA SUPPLY DUCT WITH NEW FLEXIBLE DUCT. BALANCE DIFFUSER TO AIRFLOW INDICATED. IF EXHAUST FAN, EF-8, OPERATES AT LESS THAN 150 CFM, REDUCE THE SUPPLY DIFFUSER AIRFLOW IN 113 DECONTAMINATION TO 50 CFM LESS THAN THE MEASURED AIRFLOW AT EXISTING EXHAUST FAN, EF-8.
12. SEE "8/M502 - CONSTANT AIRFLOW REGULATOR INSTALLATION DETAIL." TEST AND BALANCE CONTRACTOR TO ADJUST EACH CONSTANT AIRFLOW REGULATOR TO 360 CFM SO THE TOTAL OUTSIDE AIR DELIVERED TO THE AIR HANDLER IS MAINTAINED AT 720 CFM.
13. RECESSED, METAL DRYER BOX IN WALL. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ROUTE GALVANIZED SHEETMETAL DUCT FROM DRYER BOX, THROUGH WALL INTO ACCESSIBLE CEILING SPACE ABOVE. ROUTE OVERHEAD TO DRYER DISCHARGE FITTING IN EXTERIOR WALL. CONNECT DRYER TO SHEETMETAL DUCT IN WALL BOX WITH FLEXIBLE DUCT.
14. CONNECT TO EXISTING 4" DRYER VENT DUCTWORK WITH NEW 4" DRYER VENT DUCTWORK.
15. EXISTING DRYER WALL VENT WITH DISCHARGE HOOD TO REMAIN.
16. REINSTALL EXISTING DIFFUSER IN NEW CEILING. CONNECT TO EXISTING 6" DIA SUPPLY DUCT WITH NEW FLEXIBLE DUCT. BALANCE DIFFUSER TO AIRFLOW INDICATED.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.



FIRST FLOOR MECHANICAL PLAN

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

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON REGISTERED No. PE11500004 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

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DRAWING TITLE: FIRST FLOOR MECHANICAL PLAN

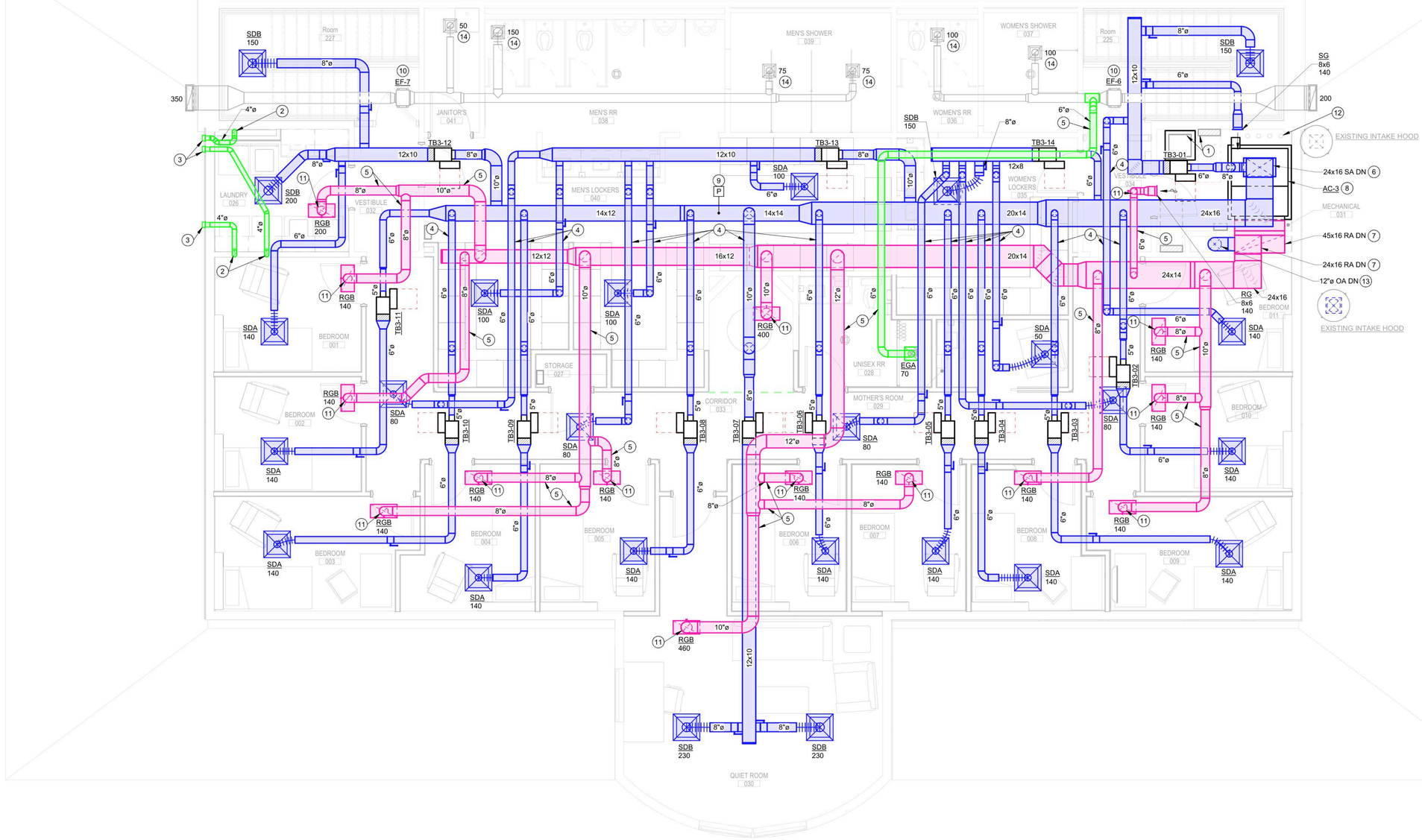
SHEET NUMBER: M301

(#) PLAN NOTES:

1. DO NOT LOCATE DUCTWORK OR PIPING OVER ELECTRICAL PANELS.
2. RECESSED, METAL DRYER BOX IN WALL. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ROUTE GALVANIZED SHEETMETAL DUCT FROM DRYER BOX, THROUGH WALL INTO ACCESSIBLE CEILING SPACE ABOVE. ROUTE OVERHEAD TO DRYER DISCHARGE FITTING IN EXTERIOR WALL. CONNECT DRYER TO SHEETMETAL DUCT IN WALL BOX WITH FLEXIBLE DUCT.
3. 4" DIA INLET STAINLESS STEEL DRYER WALL VENT WITH RECTANGULAR DISCHARGE HOOD AND INTEGRAL BACKDRAFT DAMPER. CAULK AROUND WALL VENT AT INTERFERENCE WITH WALL. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL AT 8'-8" AFF. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR THE EXACT LOCATION / PLACEMENT OF DRYER VENT DISCHARGE POINT.
4. SUPPLY DUCTWORK BRANCH ROUTED THROUGH ATTIC SPACE ABOVE GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE. DUCTWORK INSULATED CONTINUOUSLY THRU THE CONDITIONED AND UNCONDITIONED SPACES. SEAL DUCT PENETRATION INTO THE ATTIC AT THE INSULATION AND GYPSUM BOARD INTERFACE WITH SILICONE CAULKING.
5. RETURN OR EXHAUST DUCTWORK BRANCH ROUTED THROUGH ATTIC SPACE ABOVE GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE. DUCTWORK SHALL BE INSULATED THRU THE UNCONDITIONED ATTIC SPACE ABOVE AND MINIMUM 3" THRU THE GYPSUM BOARD SEPARATION ABOVE THE ACOUSTICAL TILE CEILING. FINISH END OF INSULATION WITH SEALANT BELOW ATTIC TO MAINTAIN A CONTINUOUS VAPOR BARRIER. RETURN DUCTWORK BELOW THE ATTIC SHALL BE UNINSULATED. SEAL DUCT PENETRATION INTO THE ATTIC AT THE INSULATION AND GYPSUM BOARD INTERFACE WITH SILICONE CAULKING.
6. SUPPLY DUCT DOWN TO AIR HANDLER. TRANSITION TO DISCHARGE DUCT SIZE IN VERTICAL.
7. RETURN DUCT DOWN TO AIR HANDLER WITHIN THE FOOTPRINT OF EXISTING CHASE WALL. TRANSITION TO 45"x16" IN VERTICAL. CONNECT TO RETURN INTAKE OF AIR HANDLER AT SIDE OF UNIT.
8. SEE "7/M502 - AC-3 DETAIL." INSTALL AIR HANDLER ON NEW 3.5" THICK CONCRETE HOUSEKEEPING PAD. SEE "5/M502 - HOUSEKEEPING PAD DETAIL.
9. LOCATE DUCT PRESSURE SENSOR FOR CONTROL OF SUPPLY FAN HERE. SEE "ME701 - HVAC CONTROLS, WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
10. EXHAUST FAN TO OPERATE CONTINUOUSLY. REMOVE EXISTING FAN SWITCH ON WALL IN ASSOCIATED LOCKER ROOM. WIRING AND POWER BY ELECTRICAL CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR.
11. RETURN DUCT BALANCE DAMPER IN VERTICAL DUCT ABOVE GRILLE. LOCATE BALANCE DAMPER IN CEILING SPACE ABOVE ACOUSTICAL TILE CEILING BUT BELOW GYPSUM BOARD SEPARATION FROM THE ATTIC.
12. EXISTING PIPING TO REMAIN.
13. CONNECT OUTSIDE AIR DUCTWORK TO SIDE OF VERTICAL RETURN DUCT. OUTSIDE AIR DUCT DOWN TO MECHANICAL ROOM BELOW.
14. BALANCE EXISTING EXHAUST GRILLE TO AIRFLOW INDICATED.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.
B. INSTALL DUCTWORK AND TERMINAL UNIT ABOVE ACOUSTICAL TILE CEILING AND BELOW GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE UNLESS OTHERWISE NOTED ON PLAN.



SECOND FLOOR MECHANICAL PLAN

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

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
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No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
SECOND FLOOR MECHANICAL PLAN

SHEET NUMBER:
M311

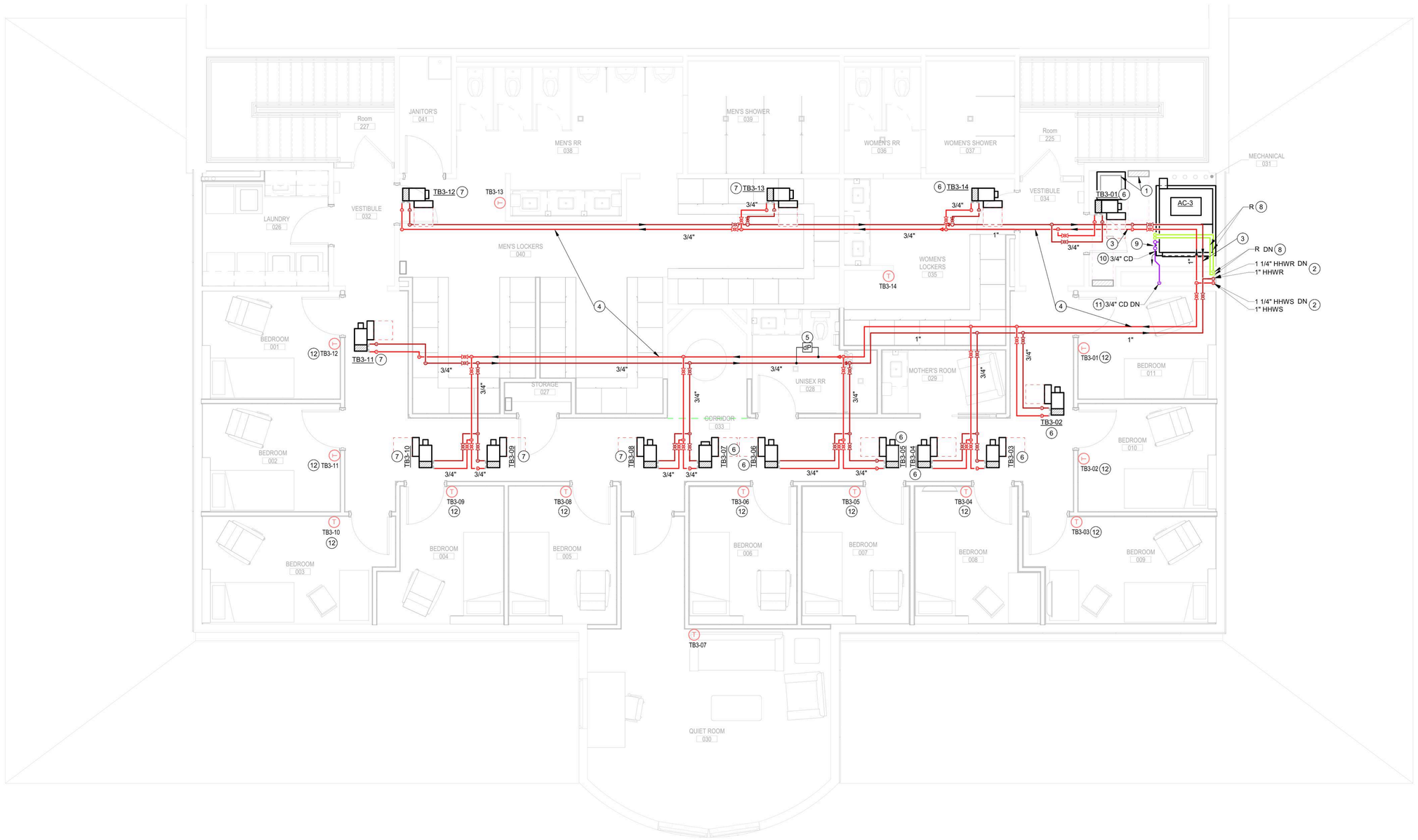
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(#) PLAN NOTES:

1. DO NOT LOCATE DUCTWORK OR PIPING OVER ELECTRICAL PANELS.
2. HEATING WATER PIPING DOWN TO MECHANICAL ROOM BELOW.1-1/4" DIAMETER BELOW TEE IN VERTICAL PIPING. 1" DIAMETER ABOVE TEE IN VERTICAL PIPING.
3. HEATING WATER PIPING IN MECHANICAL ROOM EXPOSED TO VIEW. INSTALL ALL HEATING WATER PIPING BELOW GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE.
4. ROUTE HEATING WATER PIPING ABOVE ACOUSTICAL TILE CEILING. INSTALL ALL HEATING WATER PIPING BELOW GYPSUM BOARD SEPARATION BETWEEN SECOND FLOOR AND ATTIC ABOVE.
5. LOCATE DIFFERENTIAL PRESSURE SENSOR FOR CONTROL OF SECONDARY PUMPS HERE. SEE "ME702 - HVAC CONTROLS, WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
6. 2-WAY CONTROL VALVE AT TERMINAL UNIT REHEAT COIL. SEE DETAIL, "2/M501 - 2-WAY HYDRONIC COIL PIPING DETAIL."
7. 3-WAY CONTROL VALVE AT TERMINAL UNIT REHEAT COIL. SEE DETAIL, "3/M501 - 3-WAY HYDRONIC COIL PIPING DETAIL."
8. ROUTE REFRIGERANT PIPING BETWEEN AIR HANDLER AND OUTDOOR CONDENSING UNIT ON GRADE BELOW. FOLLOW ALL MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.
9. CONNECT TO CONDENSATE DRAIN OF AIR HANDLER WITH CONDENSATE TRAP. SEE "9/M502 - CONDENSATE TRAP DETAIL.
10. CONDENSATE DRAIN SHALL BE COPPER WITH INSULATION. SLOPE HORIZONTAL PIPE MINIMUM 1/4" PER 1'-0".
11. ROUTE CONDENSATE DRAIN DOWN THROUGH CHASE TO FLOOR DRAIN IN MECHANICAL ROOM BELOW.
12. SEE DETAIL "9/E501 - BUNK ROOM DEVICE ELEVATION DETAIL" FOR SPECIFIC LOCATION OF TEMPERATURE SENSOR IN BUNK ROOMS.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.
B. INSTALL CENTER OF SPACE TEMPERATURE SENSOR AT SAME ELEVATION AS THE MOST ADJACENT LIGHT SWITCH. IF NO LIGHT SWITCH IS IN THE ROOM, LOCATE CENTER OF THERMOSTAT AT 4'-0". FOR BUNK ROOMS, SEE PLAN NOTES.
C. ALL SPACE TEMPERATURE SENSORS SHALL EITHER NOT BE BACK LIT OR THE BACK LIGHT SHALL TURN OFF WHEN USER INTERFACE IS INACTIVE. THE INTENT IS THAT THE THERMOSTAT DOES NOT NORMALLY PRODUCE VISIBLE LIGHT IN THE SPACE.



SECOND FLOOR PIPING PLAN
SCALE: 1/4" = 1'-0"

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STATE OF INDIANA
PROFESSIONAL ENGINEER

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DRAWING TITLE: SECOND FLOOR PIPING PLAN

SHEET NUMBER: M312

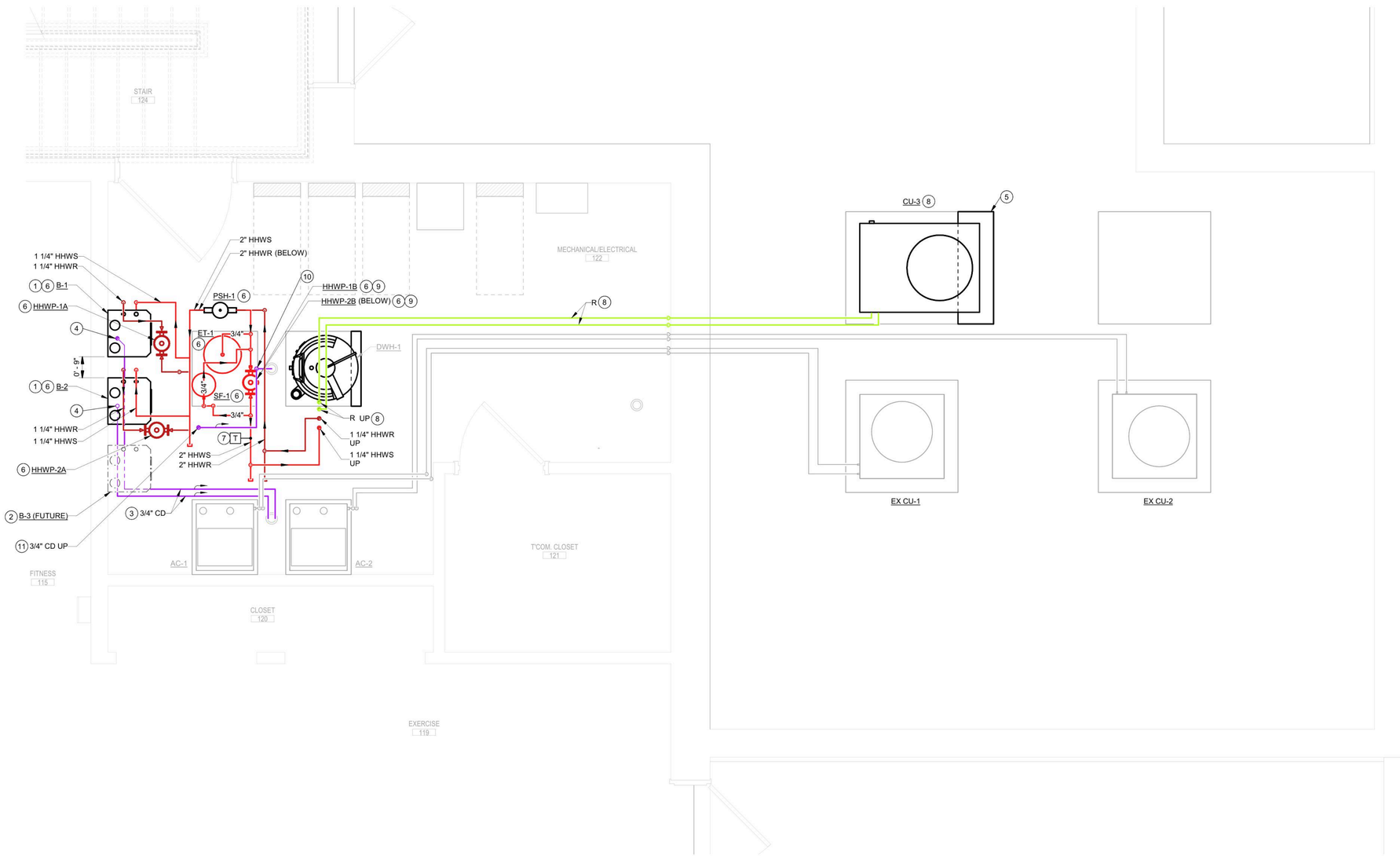
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(#) PLAN NOTES:

1. INSTALL NEW BOILER ON WALL. BOTTOM OF BOILER 2'-0" AFF. PROVIDE STRUT OR BLOCKING TO SUPPORT BOILER.
2. SPACE FOR FUTURE BOILER. KEEP SPACE CLEAR.
3. ROUTE INDIVIDUAL CONDENSATE DRAIN FROM EACH BOILER TO FLOOR DRAIN INDICATED. SLOPE HORIZONTAL PIPE MINIMUM 1/4" PER 1'-0". DO NOT CREATE A TRIP HAZARD ON MECHANICAL ROOM FLOOR. CONDENSATE DRAIN SHALL BE SOLID CORE, SCH 40, PVC.
4. INSTALL CONDENSATE NEUTRALIZER IN EACH CONDENSATE DRAIN.
5. EXTEND EXISTING CONCRETE PAD TO LENGTH OF NEW CONDENSING UNIT. REBAR EXTENSION INTO EXISTING PAD. EXTENSION TO MATCH THE THICKNESS OF EXISTING PAD.
6. SEE DETAIL "1/M501 - HEATING WATER SYSTEM DETAIL" FOR ADDITIONAL INFORMATION REGARDING INSTALLATION OF THE BOILER, PRIMARY AND SECONDARY PUMPS, PRIMARY/SECONDARY HEADER, EXPANSION TANK, CHEMICAL SHOT FEEDER, FLUE AND COMBUSTION AIR PIPING, HEATING WATER AND DRAIN PIPING, PIPING APPURTENANCES, AND EQUIPMENT SUPPORTS.
7. LOCATE HEATING WATER SUPPLY TEMPERATURE SENSOR FOR CONTROL OF BOILERS HERE. SEE "ME702 - HVAC CONTROLS, WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
8. ROUTE REFRIGERANT PIPING BETWEEN OUTDOOR CONDENSING UNIT AND AIR HANDLER IN SECOND FLOOR MECHANICAL ROOM ABOVE. FOLLOW ALL MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.
9. SUPPORT SECONDARY PUMPS ON STRUT SYSTEM AT ELEVATIONS INDICATED ON HEATING WATER SYSTEM DETAIL.
10. SUPPORT VERTICAL CONDENSATE DRAIN DOWN TO FLOOR ON STRUT SYSTEM SUPPORTING THE TWO SECONDARY HEATING WATER PUMPS.
11. CONDENSATE DRAIN FROM NEW AIR HANDLER, AC-3, ON FLOOR ABOVE. ROUTE TO FLOOR DRAIN. SLOPE HORIZONTAL PIPE MINIMUM 1/4" PER 1'-0". CONDENSATE DRAIN SHALL BE COPPER WITH INSULATION.

GENERAL NOTES:

A. SEE DRAWING "M001 - MECHANICAL SYMBOLS AND ABBREVIATIONS" FOR ADDITIONAL GENERAL NOTES.



FIRST FLOOR ENLARGED PIPING PLAN

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

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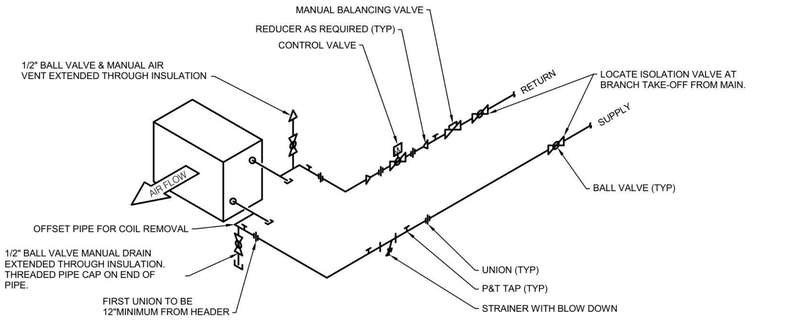
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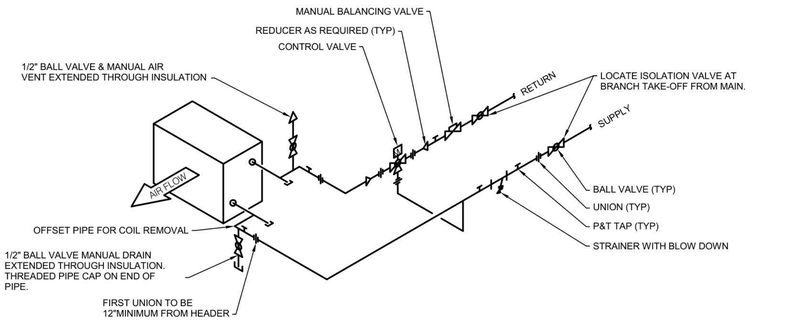
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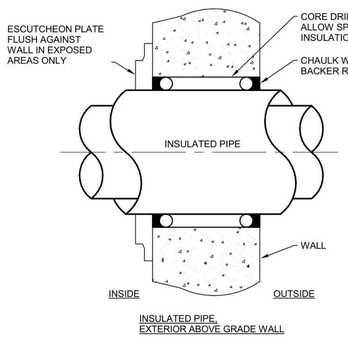
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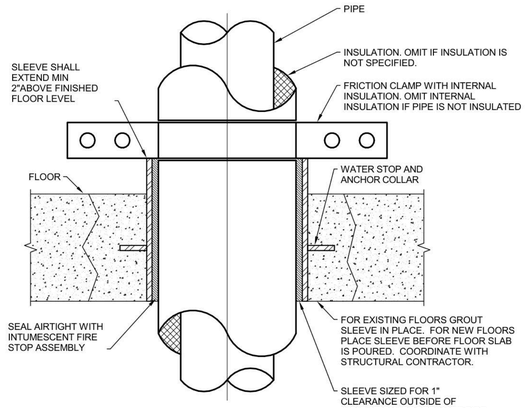
2 2-WAY HYDRONIC COIL PIPING DETAIL
SCALE: 12" = 1'-0"



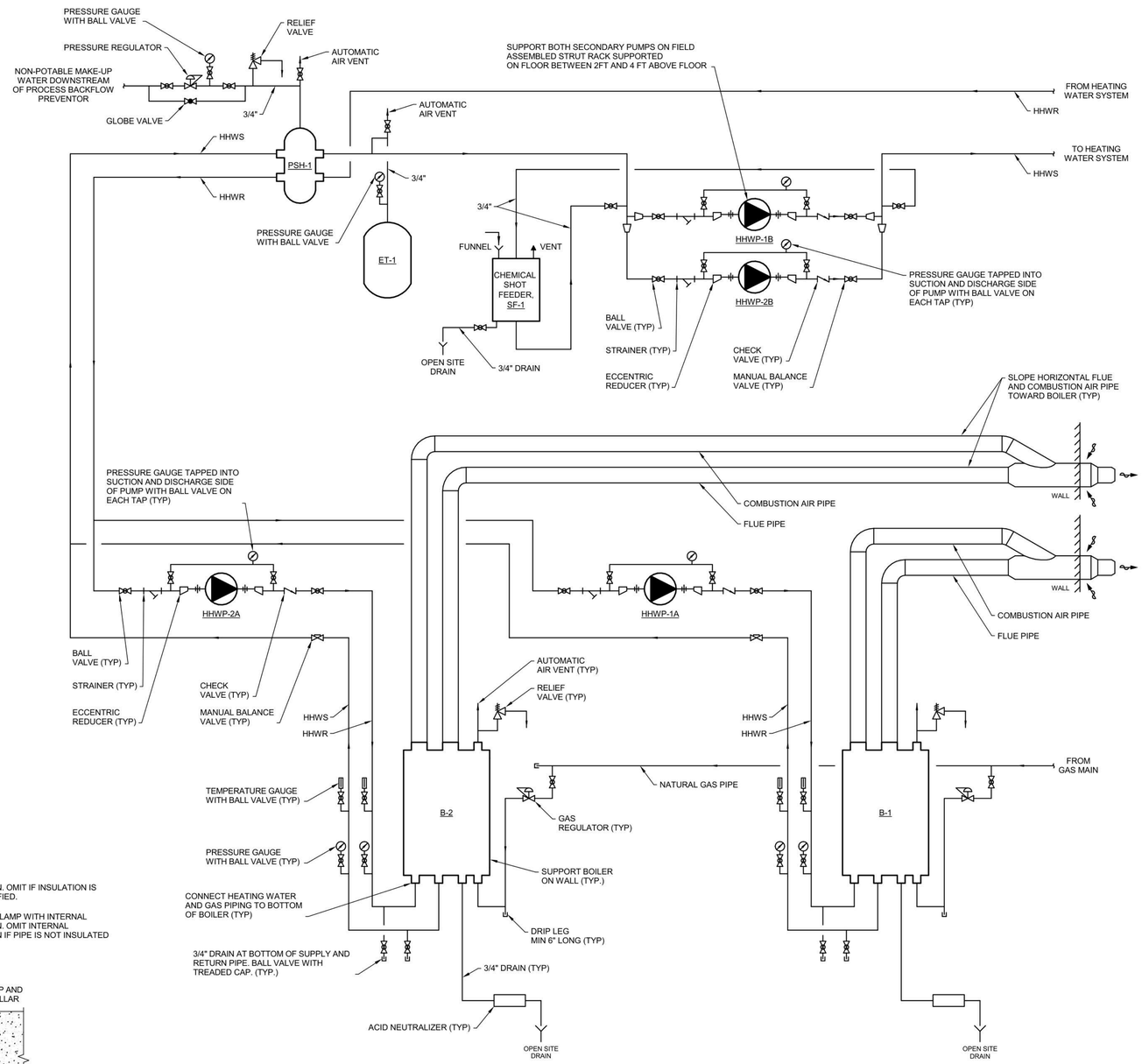
3 3-WAY HYDRONIC COIL PIPING DETAIL
SCALE: 12" = 1'-0"



5 PIPE WALL PENETRATION DETAIL
SCALE: 1/4" = 1'-0"



4 PIPE FLOOR PENETRATION DETAIL
SCALE: 1/4" = 1'-0"



1 HEATING WATER SYSTEM DETAIL
SCALE: 1/4" = 1'-0"

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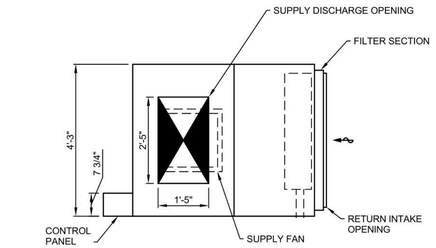
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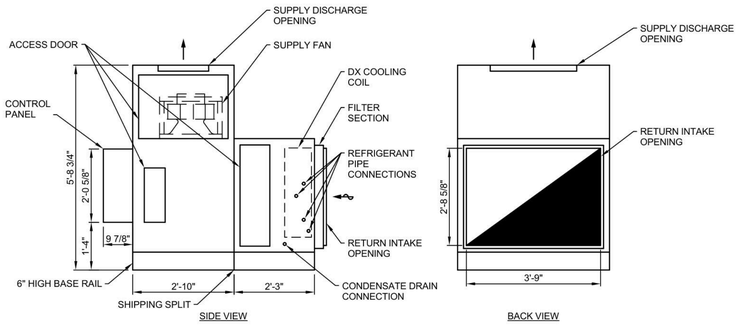
DRAWING TITLE:
MECHANICAL DETAILS

SHEET NUMBER:
M501

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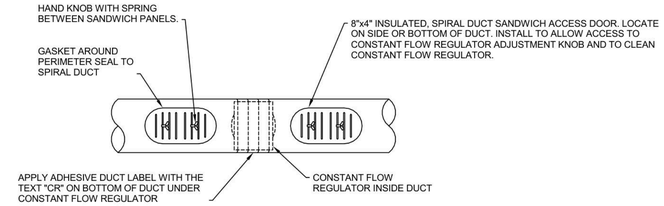


TOP VIEW

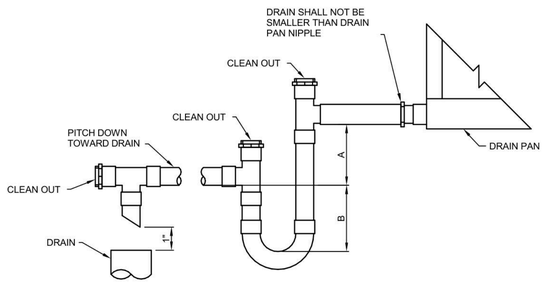


SIDE VIEW BACK VIEW

7 AC-3 DETAIL
SCALE: 1/2" = 1'-0"

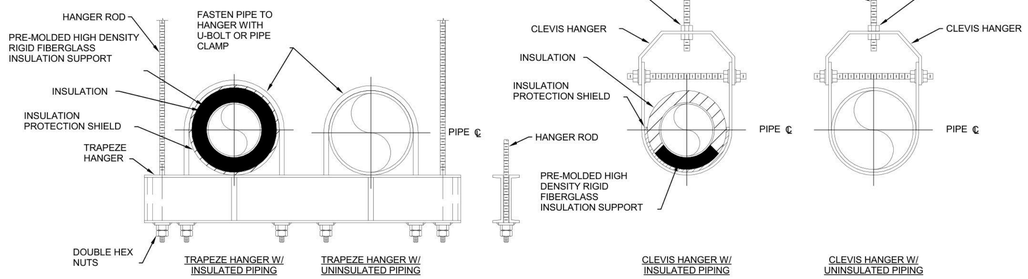


8 CONSTANT AIRFLOW REGULATOR INSTALLATION DETAIL
SCALE: 1 1/2" = 1'-0"



NOTE:
1. H=FAN INLET PRESSURE (IN. WC)
2. FOR DRAW THRU UNITS: A=H+1", B=H/2+1".
3. FOR BLOW THRU UNITS: A=2"MIN, B=2H.
4. DRAIN MATERIAL SHALL BE COPPER TYPE DWV.

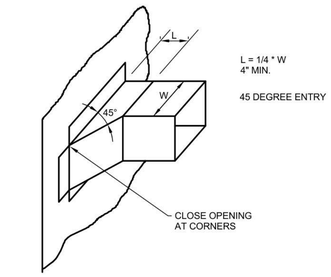
9 CONDENSATE TRAP DETAIL
SCALE: 12" = 1'-0"



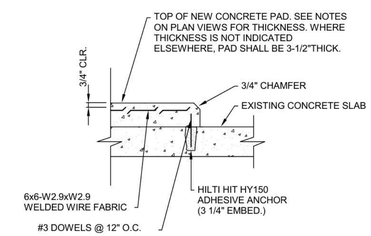
TRAPEZE HANGER W/ INSULATED PIPING | TRAPEZE HANGER W/ UNINSULATED PIPING | CLEVIS HANGER W/ INSULATED PIPING | CLEVIS HANGER W/ UNINSULATED PIPING

NOTES:
1. CONTRACTOR MAY USE ANY STRUCTURAL FASTENER DETAILED. INSTALL CLEVIS HANGER PER THE APPROPRIATE PIPE TYPE, INSULATED OR UNINSULATED.

6 TYPICAL PIPE SUPPORT DETAIL
SCALE: 12" = 1'-0"

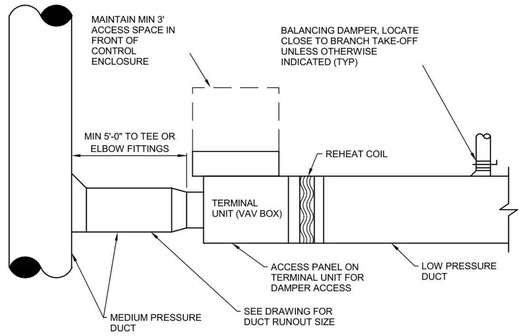


4 45 DEGREE ENTRY TEE DETAIL
SCALE: 1/4" = 1'-0"

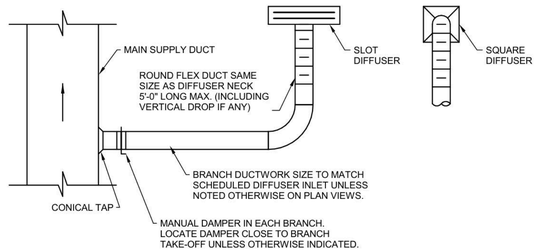


NOTES:
1. DIRECTION FOR HOUSEKEEPING PADS ON STRUCTURAL DRAWINGS SHALL SUPERCEDE INSTRUCTION ON THIS DETAIL.

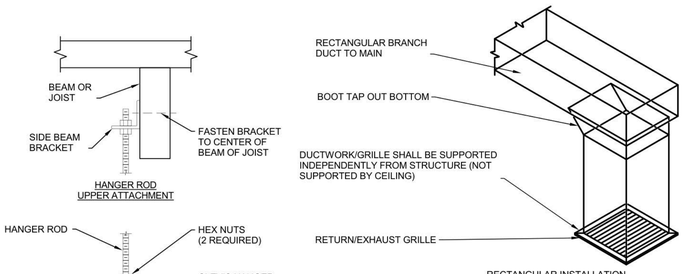
5 HOUSEKEEPING PAD DETAIL
SCALE: 1/4" = 1'-0"



1 TERMINAL UNIT DUCT DETAIL
SCALE: 1/4" = 1'-0"



2 SUPPLY DIFFUSER DETAIL
SCALE: 1/4" = 1'-0"



3 RETURN & EXHAUST GRILLE DETAIL
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:
MICHEL DAVID JAMESON REGISTERED No. PE11500004 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE: MECHANICAL DETAILS

SHEET NUMBER: M502

Autodesk Docs://250060 - Carmel Fire Station 42&46/25-150_Carmel Fire Station 46_MEP2024.rvt
8/14/2026 9:45:35 AM

AHU UNIT SCHEDULE (1/2)

NOTES:
1. INTEGRAL FACTORY CONTROLS WITH PRE-PROGRAMMED SEQUENCES TO CONTROL ALL FUNCTIONS OF AIR HANDLER IN A STAND ALONE CONFIGURATION. SEE "AHU-3 AIR HANDLER FLOW/CONTROL DIAGRAM" ON SHEET "ME701 - HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
2. SUPPLY FAN TO HAVE EC MOTOR CONTROLLED BY INTEGRAL CONTROLLER.
3. MANUFACTURER TO PROVIDE REMOTE DUCT PRESSURE SENSOR. CONTRACTOR TO FIELD INSTALL SENSOR.
4. MODULAR AIR HANDLER WITH DX COOLING COIL SECTION AND SUPPLY FAN SECTION. SUPPLY FAN SHALL BE CONFIGURED IN A VERTICAL ORIENTATION. DOUBLE WALL GALVANIZED SHEETMETAL PANELS WITH 2" INJECTED FOAM, R-13.
5. SEE "AIR COOLED CONDENSING UNIT SCHEDULE" BELOW FOR THE PAIRED REMOTE CONDENSING/COMPRESSOR UNIT TO BE INSTALLED OUTSIDE.
6. DX EVAPORATOR COIL MINIMUM AIRFLOW: 1,910 CFM OR LESS.
7. SEE "7/M502 - AC-3 DETAIL."

					FAN								ELECTRICAL DATA							BASIS OF DESIGN			
UNIT TAG	AREA SERVED	TYPE	CFM	OA CFM	TYPE	DRIVE	NO. OF FANS	TOTAL S.P.	EXTERNAL S.P.	FAN RPM	BHP	HP	VOLTS	PH	FLA	MCA	MOCP	DISC. SWITCH BY	STARTER TYPE	STARTER BY	MANUFACTURER	MODEL NO.	WEIGHT	NOTES
AC-3	SECOND FLOOR	MODULAR VERTICAL AIR HANDLER WITH DX COOLING AND REMOTE CONDENSER/COMPRESSOR	3,460 CFM	720 CFM	CENTRIFUGAL	DIRECT-ECM	1	2.69 in-wg	1.5 in-wg	1770	1.813	2	480 V	3	6.36 A	7.89 A	15 A	ELECTRICAL CONTRACTOR	EM MOTOR	MANUFACTURER	TRANE	UCCA	900 lb	SEE ALL

AHU UNIT SCHEDULE (2/2)

				DX COOLING COIL										FILTERS			BASIS OF DESIGN			
UNIT TAG	CFM	OA CFM	EER	TOTAL MBH	SENSIBLE MBH	EADB	EAWB	LADB	LAWB	REFRIG. TYPE	COOLING COIL ROWS	MAX. FACE VELOCITY	MIN. FACE AREA	NO.	TYPE	SIZE	MANUFACTURER	MODEL NO.	WEIGHT	NOTES
AC-3	3,460 CFM	720 CFM	11.7	110.3	79.9	76.8 °F	65.5 °F	55.76 °F	55.08 °F	R-454B	6	500 FPM	7.64 ft²	4	2" THICK, MERV-8	16" x 20"	TRANE	UCCA	900 lb	SEE ALL

AIR COOLED CONDENSING UNIT SCHEDULE

NOTES:
1. AMBIENT DESIGN TEMPERATURE, 95 F.
2. SEE "AIR HANDLER SCHEDULE" ABOVE FOR THE PAIRED REMOTE CONDENSING/COMPRESSOR UNIT TO BE INSTALLED OUTSIDE.

				COOLING			ELECTRICAL						BASIS OF DESIGN			
UNIT TAG	UNIT TYPE	UNIT SERVED	LOCATION	TONS	SEER	REFRIG. TYPE	FLA	MCA	MOCP	VOLTS	PH	DISC. SWITCH BY	MANUFACTURER	MODEL NO.	WEIGHT	NOTES
CU-3	UNITARY SPLIT SYSTEM CONDENSER / COMPRESSOR	AC-3	OUTSIDE	10	14.3	R-454B	16.8 A	20 A	25 A	480 V	3	ELECTRICAL CONTRACTOR	TRANE	TTA120K4DDA	410 lb	SEE ALL

HOT WATER BOILER SCHEDULE

NOTES:
1. INTEGRAL FACTORY CONTROLS WITH PRE-PROGRAMMED SEQUENCES TO CONTROL ALL FUNCTIONS OF BOILER AND PRIMARY PUMPS (BOILER PUMPS) WITHOUT THE NEED FOR A BUILDING AUTOMATION SYSTEM. SEE "ME702 - HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
2. MANUFACTURER TO PROVIDE REMOTE OUTSIDE AIR TEMPERATURE SENSOR AND REMOTE HEATING WATER SUPPLY TEMPERATURE SENSOR. CONTRACTOR TO FIELD INSTALL EACH SENSOR.
3. DRAFT BLOWER SHALL PRODUCE SUFFICIENT PRESSURE FOR COMBUSTION AIR AND FLUE DUCTWORK AS SHOWN ON PLAN VIEWS. NOTIFY ENGINEER IF COMBUSTION AIR AND/OR FLUE LENGTH, NUMBER OF FITTINGS, OR DIAMETER IS INSUFFICIENT FOR PROPER OPERATION OF BOILER. BY SUBMITTING A BID, MANUFACTURER ACCEPTS COMBUSTION AIR AND FLUE ROUTING DESCRIBED IN THESE CONSTRUCTION DOCUMENTS.
4. BOILER MINIMUM FLOWRATE: 4.4 GPM OR LESS.
5. MIN AHRI THERMAL EFFICIENCY: 92%.
6. MANUFACTURER PROVIDED DISCONNECT.

				GAS PRESSURE											ELECTRICAL DATE				BASIS OF DESIGN		WEIGHT	
UNIT TAG	LOCATION	TYPE	FUEL	MIN.	MAX.	INPUT MBH	OUTPUT MBH	MIN. TURN DOWN	GPM	EWT	LWT	MAX. WATER P.D.	WATER VOLUME	RELIEF VALVE SETTING	STARTER BY	FLA	VOLTS	PH	MANUFACTURER	MODEL NO.	OPERATING	NOTES
B-1	MECHANICAL/ELECTRICAL 122	WALL HUNG, FIRE TUBE, CONDENSING	NATURAL GAS	4 psi	14 psi	110	101	5:1	10 GPM	120 °F	140 °F	10 ftH2O	1.4 gal	30 psi	MANUFACTURER	12 A	120 V	1	NTI BOILERS	TFTN-110	107 lb	SEE ALL
B-2	MECHANICAL/ELECTRICAL 122	WALL HUNG, FIRE TUBE, CONDENSING	NATURAL GAS	4 psi	14 psi	110	101	5:1	10 GPM	120 °F	140 °F	10 ftH2O	1.4 gal	30 psi	MANUFACTURER	12 A	120 V	1	NTI BOILERS	TFTN-110	107 lb	SEE ALL

PUMP SCHEDULE

NOTES:
1. SINGLE SPEED MOTOR/PUMP. NEMA PREMIUM EFFICIENT MOTOR. ODP MOTOR ENCLOSURE.
2. INTEGRAL PUMP CONTROLLER WITH EC MOTOR. CONTROLLER SHALL INCLUDE PRE-PROGRAMMED FACTORY CONTROLS CAPABLE OF MAINTAINING A CONSTANT SYSTEM DIFFERENTIAL PRESSURE AS MEASURED AT A REMOTE HEATING WATER SYSTEM PRESSURE SENSOR, PUMP ROTATION, AND LEAD-LAG OPERATION. SEE SHEET "ME702 - HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL INFORMATION. NEMA PREMIUM EFFICIENT MOTOR. ODP MOTOR ENCLOSURE.
3. MANUFACTURER TO PROVIDE REMOTE HEATING WATER DIFFERENTIAL PRESSURE SENSOR. CONTRACTOR TO FIELD INSTALL SENSOR.

		DESIGN CRITERIA						MOTOR DATA				ELECTRICAL		BASIS OF DESIGN			
UNIT TAG	LOCATION	TYPE	FLOW	TDH	FLUID	MIN. FLUID TEMP.	MAX. FLUID TEMP.	HP	RPM	VOLTS	PH	DISCONNECT BY	STARTER BY	MANUFACTURER	MODEL NO.	WEIGHT	NOTES
HHWP-1A	MECHANICAL/ELECTRICAL 122	CLOSE COUPLED, IN-LINE CENTRIFUGAL	10 GPM	20 FT	100% WATER	50 °F	140 °F	0.33	1800	120 V	1	MANUFACTURER	MANUFACTURER	BELL & GOSSETT / XYLEM	e90, 1AAB	49 lb	1
HHWP-1B	MECHANICAL/ELECTRICAL 122	CLOSE COUPLED, IN-LINE CENTRIFUGAL	10 GPM	25 FT	100% WATER	50 °F	140 °F	0.17	3780	120 V	1	MANUFACTURER	MANUFACTURER	BELL & GOSSETT / XYLEM	ECOCIRC XL 36-45	16 lb	2, 3
HHWP-2A	MECHANICAL/ELECTRICAL 122	CLOSE COUPLED, IN-LINE CENTRIFUGAL	10 GPM	20 FT	100% WATER	50 °F	140 °F	0.33	1800	120 V	1	MANUFACTURER	MANUFACTURER	BELL & GOSSETT / XYLEM	e90, 1AAB	49 lb	1
HHWP-2B	MECHANICAL/ELECTRICAL 122	CLOSE COUPLED, IN-LINE CENTRIFUGAL	10 GPM	25 FT	100% WATER	50 °F	140 °F	0.17	3780	120 V	1	MANUFACTURER	MANUFACTURER	BELL & GOSSETT / XYLEM	ECOCIRC XL 36-45	16 lb	2, 3

EXPANSION TANK SCHEDULE

NOTES:
1. PRE-CHARGED DIAPHRAGM-TYPE, VERTICAL ORIENTATION, 3/4" SYSTEM CONNECTION ON TOP, 3/4" DRAIN PLUG, ASME SECTION VIII RATED, 125-PSIG MWAP.
2. FLUID: WATER.

						MAX. OPER. PRESS.				BASIS OF DESIGN		
UNIT TAG	LOCATION	APPROX. SYSTEM VOLUME	MIN. WATER TEMP.	MAX. WATER TEMP.	PRESS. AT TANK	FOR CALCULATION	RELIEF VALVE	MIN. VOLUME	MIN. ACCEPT. VOLUME	MANUFACTURER	MODEL NO.	NOTES
ET-1	MECHANICAL/ELECTRICAL 122	102 gal	40 °F	140 °F	15 psi	25 psi	30 psi	6.08 gal	1.53 gal	BELL & GOSSETT / XYLEM	D15	SEE ALL

PRIMARY/SECONDARY HEADER SCHEDULE

NOTES:
1. COMBINATION AIR SEPARATOR AND MANIFOLD FOR PRIMARY / SECONDARY CIRCUITS. STEEL CONSTRUCTION. WORKING PRESSURE: 150 PSI.
2. (4) 2" FLANGED SYSTEM CONNECTIONS. AIR VENT CONNECTION ON TOP. DRAIN CONNECTION ON BOTTOM.
3. INCLUDE AUTOMATIC AIR VENT (ON TOP CONNECTION) AND BALL VALVE (ON BOTTOM CONNECTION).

				WEIGHT	BASIS OF DESIGN		
UNIT TAG	LOCATION	PIPE SIZE	MAX GPM	(EMPTY)	MANUFACTURER	MODEL NO.	NOTES
PSH-1	MECHANICAL/ELECTRICAL 122	2"	40 GPM	12.6 lb	BELL & GOSSETT / XYLEM	PSH-2	SEE ALL

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMISON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:
M601

8/14/2026 9:45:36 AM Autodesk Docs://250060 - Carmel Fire Station 428-46/25-150_Carmel Fire Station 46_MEP2024.rvt

TERMINAL UNIT SCHEDULE

NOTES:
1. INTEGRAL FACTORY CONTROLS WITH PRE-PROGRAMMED SEQUENCES TO CONTROL ALL FUNCTIONS OF TERMINAL UNIT WITHOUT THE NEED FOR A BUILDING AUTOMATION SYSTEM. SEE "VAV TERMINAL UNIT CONTROL DIAGRAM" ON SHEET "ME701 - HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES" FOR ADDITIONAL REQUIREMENTS.
2. MANUFACTURER TO PROVIDE REMOTE SPACE AIR TEMPERATURE SENSOR. CONTRACTOR TO FIELD INSTALL SENSOR.
3. SEE "HEATING WATER CONTROL VALVE SCHEDULE" THIS SHEET FOR THE ASSOCIATED CONTROL VALVE.

									HOT WATER REHEAT COIL										NC LEVEL AT INLET S.P.	MAXIMUM ROOM NC	CONTROL TYPE	CONTROLLER POWER		BASIS OF DESIGN		
UNIT TAG	SYSTEM SERVED	AREA SERVED	UNIT TYPE	UNIT INLET SIZE	MAXIMUM CFM	MINIMUM CFM	MAXIMUM S.P. AT MAXIMUM CFM	INLET S.P.	EAT	LAT	EWT	LWT	GPM	ROWS	MAXIMUM WATER P.D.	NOMINAL PIPE SIZE	HEATING CFM	HEATING LOAD AT HEATING CFM					WEIGHT	MANUFACTURER	MODEL NO.	NOTES
TB3-01	AHU-3	SECOND FLOOR	DDC	6"	430 CFM	150 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.76 GPM	2	8 ftH2O	3/4"	150 CFM	7,603.88 Btu/h	20	35	DDC	12V	19 lb	PRICE	SDV-06	SEE ALL
TB3-02	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-03	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-04	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-05	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-06	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-07	AHU-3	SECOND FLOOR	DDC	8"	460 CFM	150 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.76 GPM	2	8 ftH2O	3/4"	150 CFM	7,603.88 Btu/h	20	35	DDC	12V	23 lb	PRICE	SDV-08	SEE ALL
TB3-08	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-09	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-10	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-11	AHU-3	SECOND FLOOR	DDC	5"	140 CFM	90 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.46 GPM	2	8 ftH2O	3/4"	90 CFM	4,562.33 Btu/h	20	35	DDC	12V	20 lb	PRICE	SDV-05	SEE ALL
TB3-12	AHU-3	SECOND FLOOR	DDC	8"	490 CFM	160 CFM	0.25 in-wg	0.75 in-wg	50 °F	95 °F	140 °F	120 °F	0.81 GPM	2	8 ftH2O	3/4"	160 CFM	8,110.8 Btu/h	20	35	DDC	12V	23 lb	PRICE	SDV-08	SEE ALL
TB3-13	AHU-3	SECOND FLOOR	DDC	8"	460 CFM	460 CFM	0.25 in-wg	0.75 in-wg	50 °F	85 °F	140 °F	120 °F	1.81 GPM	2	8 ftH2O	3/4"	460 CFM	18,136.65 Btu/h	20	35	DDC	12V	23 lb	PRICE	SDV-08	SEE ALL
TB3-14	AHU-3	SECOND FLOOR	DDC	6"	360 CFM	360 CFM	0.25 in-wg	0.75 in-wg	50 °F	85 °F	140 °F	120 °F	1.42 GPM	2	8 ftH2O	3/4"	360 CFM	14,193.9 Btu/h	20	35	DDC	12V	19 lb	PRICE	SDV-06	SEE ALL

HEATING WATER CONTROL VALVE SCHEDULE

NOTES:
1. CHARACTERIZED BALL VALVE, NICKEL-PLATED BRASS BODY, STAINLESS STEEL BALL AND STEM, PTFE SEAT, EPDM STEM SEAL AND O-RING.
2. PROVIDE VALVE WITH ACTUATOR. ACTUATOR TO INCLUDE SPRING RETURN IN A FAIL OPEN CONFIGURATION (NORMALLY OPEN).

VALVE TAG	ASSOCIATED VAV BOX	VALVE DIAMETER	GPM	DESIGN PRESSURE DROP	CV	VALVE BODY STYLE	FLOW CHARACTERISTIC	CONTROL TYPE	CONTROL VOLTAGE	MANUFACTURER	MODEL NO.	NOTES
V3-01	TB3-01	1/2"	0.76 GPM	5 psi	0.46	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B208 + LFX24-SR US	SEE ALL
V3-02	TB3-02	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-03	TB3-03	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-04	TB3-04	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-05	TB3-05	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-06	TB3-06	1/2"	0.46 GPM	5 psi	0.3	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B207 + LFX24-SR US	SEE ALL
V3-07	TB3-07	1/2"	0.76 GPM	5 psi	0.46	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B208 + LFX24-SR US	SEE ALL
V3-08	TB3-08	1/2"	0.46 GPM	5 psi	0.3	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B307 + LFX24-SR US	SEE ALL
V3-09	TB3-09	1/2"	0.46 GPM	5 psi	0.3	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B307 + LFX24-SR US	SEE ALL
V3-10	TB3-10	1/2"	0.46 GPM	5 psi	0.3	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B307 + LFX24-SR US	SEE ALL
V3-11	TB3-11	1/2"	0.46 GPM	5 psi	0.3	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B307 + LFX24-SR US	SEE ALL
V3-12	TB3-12	1/2"	0.81 GPM	5 psi	0.46	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B308 + LFX24-SR US	SEE ALL
V3-13	TB3-13	1/2"	1.81 GPM	5 psi	0.8	3-WAY, MIXING/DIVERTING	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B309 + LFX24-SR US	SEE ALL
V3-14	TB3-14	1/2"	1.42 GPM	5 psi	0.8	2-WAY	EQUAL PERCENTAGE	FLOATING POINT	24 VDC	BELIMO	B209 + LFX24-SR US	SEE ALL

SUPPLY DIFFUSER SCHEDULE

NOTES:
1. SQUARE PLAQUE DIFFUSER, STEEL, 1/2" FIBERGLASS WITH FOIL/SCRIM VAPOR BARRIER INSULATED BACK PAN, MANUFACTURER'S STANDARD WHITE.
2. BORDER STYLE SHALL MATCH INSTALLATION LOCATION. MAY DIFFER AT EACH INSTANCE. SEE DRAWINGS.

TYPE TAG	NOMINAL SIZE	NOMINAL ROUND NECK SIZE	BRANCH DUCT SIZE TO DIFFUSER	MINIMUM CFM	MAXIMUM CFM	MAX. NC LEVEL	THROW (FT) 150-100-50	MAX. NECK VELOCITY	MAX. VELOCITY PRESSURE	MAX. TOTAL PRESSURE	MANUFACTURER	MODEL NO.	TYPE	NOTES
SDA	24"x24"	6	6	80 CFM	140 CFM	16	3-5-9	700 FPM	0.03 in-wg	0.12 in-wg	PRICE	SPD	PLAQUE	SEE ALL
SDB	24"x24"	8	8	140 CFM	250 CFM	22	5-7-12	700 FPM	0.03 in-wg	0.21 in-wg	PRICE	SPD	PLAQUE	SEE ALL

SUPPLY GRILLE SCHEDULE

NOTES:
1. LOUVERED GRILLE, TWO ROWS OF ADJUSTABLE BLADES, LONG (HORIZONTAL) BLADES FRONT, SHORT (VERTICAL) BLADES BACK, ALUMINUM, MANUFACTURER'S STANDARD WHITE.
2. BORDER STYLE SHALL MATCH INSTALL LOCATION. MAY DIFFER AT EACH INSTANCE. SEE DRAWINGS. COUNTER SUNK SCREWS ON FRAME WHERE INSTALLED ON WALL.

TYPE TAG	NOMINAL FACE SIZE	MIN. CORE AREA	BRANCH DUCT SIZE	MIN. CFM	MAX. CFM	MAX. NC LEVEL	MAX. CORE VELOCITY	MAX. VELOCITY PRESSURE	MAX. TOTAL PRESSURE	MANUFACTURER	MODEL NO.	NOTES
SG	SEE PLANS	SEE PLANS	SEE PLANS							PRICE	620	SEE ALL

RETURN AND EXHAUST GRILLE SCHEDULE

NOTES:
1. EGG CRATE GRILLE, 1/2" x 1/2" ALUMINUM CORE, MANUFACTURER'S STANDARD WHITE.
2. LOUVERED GRILLE, FIXED BLADES ON LONG (HORIZONTAL) DIMENSION, 3/4" BLADE SPACING, 45 DEG BLADE ANGLE, ALUMINUM, MANUFACTURER'S STANDARD WHITE.
3. BORDER STYLE SHALL MATCH INSTALLATION LOCATION. MAY DIFFER AT EACH INSTANCE. SEE DRAWINGS. COUNTER SINK SCREWS ON FRAME WHERE INSTALLED ON WALL.

TYPE TAG	NOMINAL FACE SIZE	MIN. CORE AREA	BRANCH DUCT SIZE	MIN. CFM	MAX. CFM	MAX. NC LEVEL	MAX. CORE VELOCITY	MAX. VELOCITY PRESSURE	MAX. TOTAL PRESSURE	MANUFACTURER	MODEL NO.	NOTES
EGA	12"x12"	0.88 Sq. Ft.	12"x12"		450 CFM	15	550 FPM	0.02 in-wg	0.05 in-wg	PRICE	80	1, 3
RG	SEE PLANS	SEE PLANS	SEE PLANS							PRICE	630	2, 3
RGB	12"x24"	1.80 Sq. Ft.	12"x24"		720 CFM	11	400 FPM	0.01 in-wg	0.02 in-wg	PRICE	80	1, 3

CONSTANT AIRFLOW REGULATOR SCHEDULE

NOTES:
1. PRESSURE INDEPENDENT BALANCING DAMPER THAT AUTOMATICALLY REGULATES TO A CONSTANT AIRFLOW USING ONLY DUCT SYSTEM PRESSURE.
2. AIRFLOW ADJUSTMENT DIAL WITH CFM INDICATOR.
3. LOW PRESSURE RANGE OPTION WITH OPERATION RANGE OF APPROXIMATELY 0.12 TO 1.2 IN WG.

TYPE TAG	UNIT SERVICE	NOMINAL SIZE	MINIMUM CFM	MAXIMUM CFM	MAX. TOTAL PRESSURE	MANUFACTURER	MODEL NO.	NOTES
CR10	VENTILATION AIR	10"	295 CFM	470 CFM	1 in-wg	ALDES	CAR3	SEE ALL

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

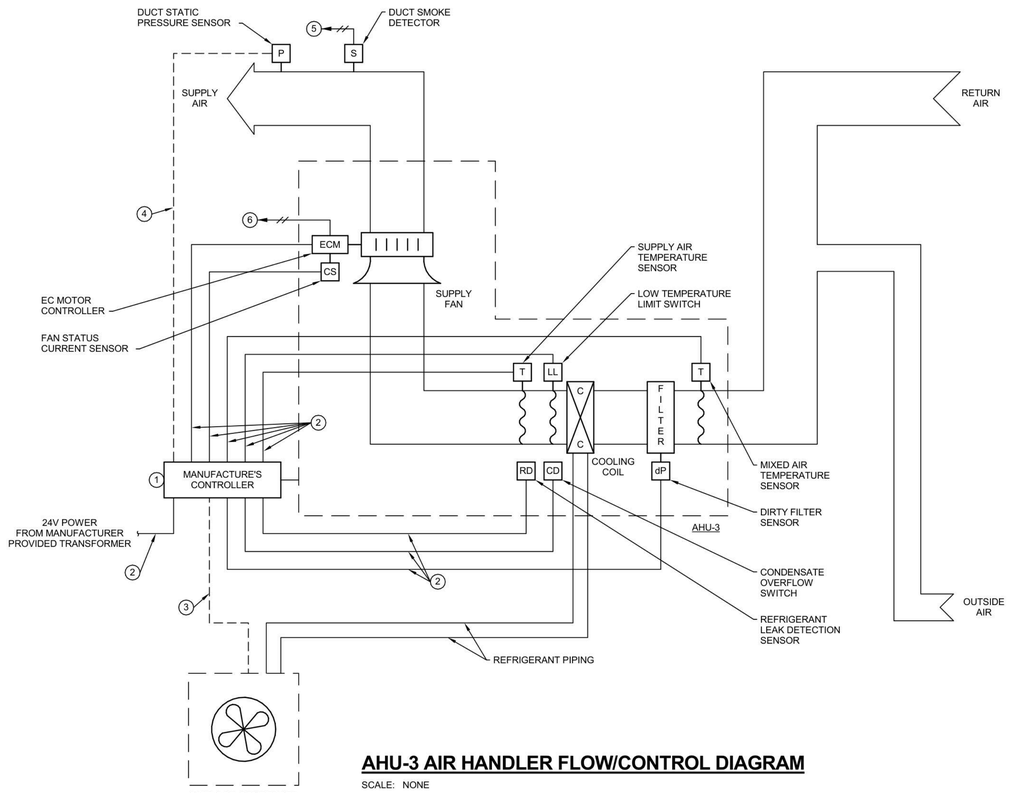
ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE: MECHANICAL SCHEDULES

SHEET NUMBER: M602

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AHU-3 AIR HANDLER FLOW/CONTROL DIAGRAM

SCALE: NONE

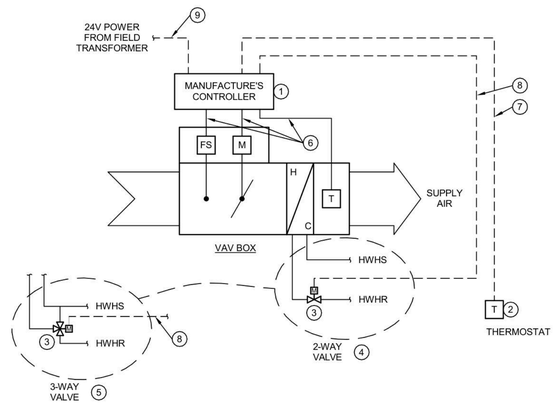
(#) PLAN NOTES:

1. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY AIR HANDLER MANUFACTURER.
2. CONTROL WIRING FURNISHED AND INSTALLED BY FACTORY.
3. CONTROL WIRING FROM AIR HANDLER CONTROLLER TO OUTDOOR CONDENSER AND COMPRESSOR. WIRING BY ELECTRICAL CONTRACTOR.
4. 2-WIRE CONTROL WIRING FROM ANALOG INPUT FOR DUCT STATIC PRESSURE. SENSOR FURNISHED BY MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR.
5. DUCT SMOKE DETECTOR INTERLOCKED WITH THE FIRE ALARM SYSTEM.
6. FAN DISCONNECT INTERLOCKED WITH THE FIRE ALARM SYSTEM. UPON DETECTION OF SMOKE AT DUCT SMOKE DETECTOR, POWER TO FAN SHALL BE DISCONNECTED.

SEQUENCE OF OPERATIONS

1. GENERAL:
   - A. AIR HANDLER CONTROLLED BY PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY MANUFACTURER. CONTROLLER SHALL BE CAPABLE OF INDEPENDENT OPERATION WITHOUT INPUT FROM A CENTRAL BUILDING AUTOMATION SYSTEM.
   - B. THE BUILDING WILL NOT HAVE A CENTRAL BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL FULLY CONTROL THE AIR HANDLER SYSTEM, INCLUDING THE SEQUENCE DESCRIBED BELOW UNDER THE HEADING "PRE-PROGRAMMED AIR HANDLER SEQUENCE."
   - C. AIR HANDLER MANUFACTURER SHALL ASSIST WITH CONTROLS START-UP, INCLUDING VERIFICATION OF SEQUENCE, COORDINATION WITH TEST AND BALANCE CONTRACTOR, AND MODIFICATION OF AIRFLOW, TEMPERATURE, AND PRESSURE SETPOINTS WITHIN CONTROLLER.

2. PRE-PROGRAMMED AIR HANDLER SEQUENCE :
   - A. THE SUPPLY FAN SHALL RUN CONTINUOUSLY. THE FAN SPEED SHALL MODULATE TO MAINTAIN DUCT STATIC PRESSURE.
   - B. THE DX COOLING SYSTEM SHALL CYCLE BETWEEN COOLING STAGES TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 55F. WHEN THE OUTSIDE AIR TEMPERATURE IS 50F OR LESS, COOLING SHALL BE DISABLED.
   - C. SAFETIES AND ALARMS:
     - C.A. WHEN THE LOW LIMIT TEMPERATURE SWITCH DETECTS A SUPPLY AIR TEMPERATURE BELOW 34F, STOP THE SUPPLY AIR FAN, DISABLE THE DX COOLING SYSTEM, AND ALARM AT THE AIR HANDLER CONTROLLER.
     - C.B. WHEN THE CONDENSATE OVERFLOW SWITCH DETECTS HIGH LEVEL, DISABLE THE DX COOLING SYSTEM AND ALARM AT THE AIR HANDLER CONTROLLER.
     - C.C. WHEN THE SUPPLY AIR FAN STATUS SWITCH (CURRENT SENSOR) DETECTS A FAILURE, STOP THE SUPPLY AIR FAN, DISABLE THE DX COOLING SYSTEM, AND ALARM AT THE AIR HANDLER CONTROLLER.
     - C.D. WHEN THE DIRTY FILTER SWITCH DETECTS A HIGH PRESSURE DROP, ALARM AT THE AIR HANDLER CONTROLLER. THE SYSTEM MAY CONTINUE TO OPERATE.
     - C.E. WHEN THE REFRIGERANT LEAK DETECTION SENSOR DETECTS HIGH REFRIGERANT STOP THE SUPPLY AIR FAN, DISABLE THE DX COOLING SYSTEM, AND ALARM AT THE AIR HANDLER CONTROLLER.
   - D. TEST AND BALANCE CONTRACTOR TO DETERMINE THE SUPPLY STATIC PRESSURE SETPOINT.
   - E. MANUFACTURER'S START-UP REPRESENTATIVE TO SET-UP THE PRE-PROGRAMMED AIR HANDLER CONTROLLER, AND CONFIGURE ALL SETPOINTS WITHIN THE CONTROLLER, INCLUDING BUT NOT LIMITED TO THE SUPPLY STATIC PRESSURE SETPOINT IDENTIFIED BY THE TEST AND BALANCE CONTRACTOR.



VAV TERMINAL UNIT CONTROL DIAGRAM

SCALE: NONE

(#) PLAN NOTES:

1. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY VAV BOX MANUFACTURER.
2. THERMOSTAT WITH ROTATING DIAL. THERMOSTAT SHALL NOT EMIT LIGHT AND SHALL NOT BE BACK LIT. BASIS OF DESIGN: PRICE, MODEL: 250051-100.
3. CONTROL VALVE FURNISHED AND PIPED BY MECHANICAL CONTRACTOR.
4. DIAGRAM FOR 2-WAY CONTROL VALVE.
5. DIAGRAM FOR 3-WAY CONTROL VALVE.
6. CONTROL WIRING FURNISHED AND INSTALLED BY FACTORY.
7. CAT5 CABLE FROM THERMOSTAT JACK. WIRING BY ELECTRICAL CONTRACTOR.
8. 3-WIRE CONTROL WIRING FROM BINARY OUTPUT FOR TRI-STATE REHEAT VALVE POSITION. WIRING BY ELECTRICAL CONTRACTOR.
9. 2-WIRE CONTROL WIRING TO POWER FOR CONTROLLER. WIRING BY ELECTRICAL CONTRACTOR.

SEQUENCE OF OPERATIONS

1. GENERAL:
   - A. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY VAV BOX MANUFACTURER. TERMINAL UNIT SHALL INCLUDE FACTORY WIRED AIRFLOW SENSOR, DAMPER ACTUATOR, AND DISCHARGE TEMPERATURE SENSOR. CONTROLLER SHALL BE CAPABLE OF INDEPENDENT OPERATION WITHOUT INPUT FROM A CENTRAL BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL FULLY CONTROL THE VAV BOX, INCLUDING THE SEQUENCE DESCRIBED BELOW UNDER THE HEADING "PRE-PROGRAMMED VAV BOX SEQUENCE."
   - B. VAV BOX CONTROLLER BASIS OF DESIGN: PRICE, PIC-SD WITH CONTROL SEQUENCE NUMBER 1815.
   - C. THE BUILDING WILL NOT HAVE A CENTRAL BUILDING AUTOMATION SYSTEM.
   - D. MANUFACTURER SHALL ASSIST WITH CONTROLS START-UP, INCLUDING VERIFICATION OF SEQUENCE, COORDINATION WITH TEST AND BALANCE CONTRACTOR, AND MODIFICATION OF AIRFLOW SETPOINTS WITHIN THE CONTROLLER.
   - E. THE MAXIMUM AND MINIMUM AIRFLOW SHALL BE SET TO THE AIRFLOWS INDICATED ON SHEET "M602," "VAV BOX SCHEDULE.
   - F. FOR INFORMATION REGARDING THE HEATING WATER VALVES, SEE SHEET "M602, "HEATING WATER CONTROL VALVE SCHEDULE."

2. PRE-PROGRAMMED VAV BOX SEQUENCE :
   - A. SYSTEM WILL OPERATE AT ALL TIMES WITH COOL SUPPLY AIR.
   - B. ON AN INCREASE IN SPACE TEMPERATURE THE CONTROLLER REGULATES THE ACTUATOR TO OPEN THE VAV DAMPER AND INCREASE THE FLOW OF COOL AIR. ON AN INCREASE OF SPACE TEMPERATURE GREATER THAN THE COOLING PROPORTIONAL BAND, THE AIRFLOW IS MAINTAINED AT ITS PRE-SELECTED MAXIMUM SETTING.
   - C. ON A DECREASE IN SPACE TEMPERATURE THE CONTROLLER REGULATES THE ACTUATOR TO CLOSE THE VAV DAMPER AND REDUCE THE FLOW OF COOL AIR. IF THE SPACE TEMPERATURE DECREASES TO LESS THAN THE COOLING PROPORTIONAL BAND, THE AIRFLOW IS MAINTAINED AT THE PRE-SELECTED MINIMUM SETTING.
   - D. ON A DECREASE IN SPACE TEMPERATURE, THE HEATING VALVE IS MODULATED TO INCREASE HEAT PROPORTIONALLY TO THE ROOM DEMAND.

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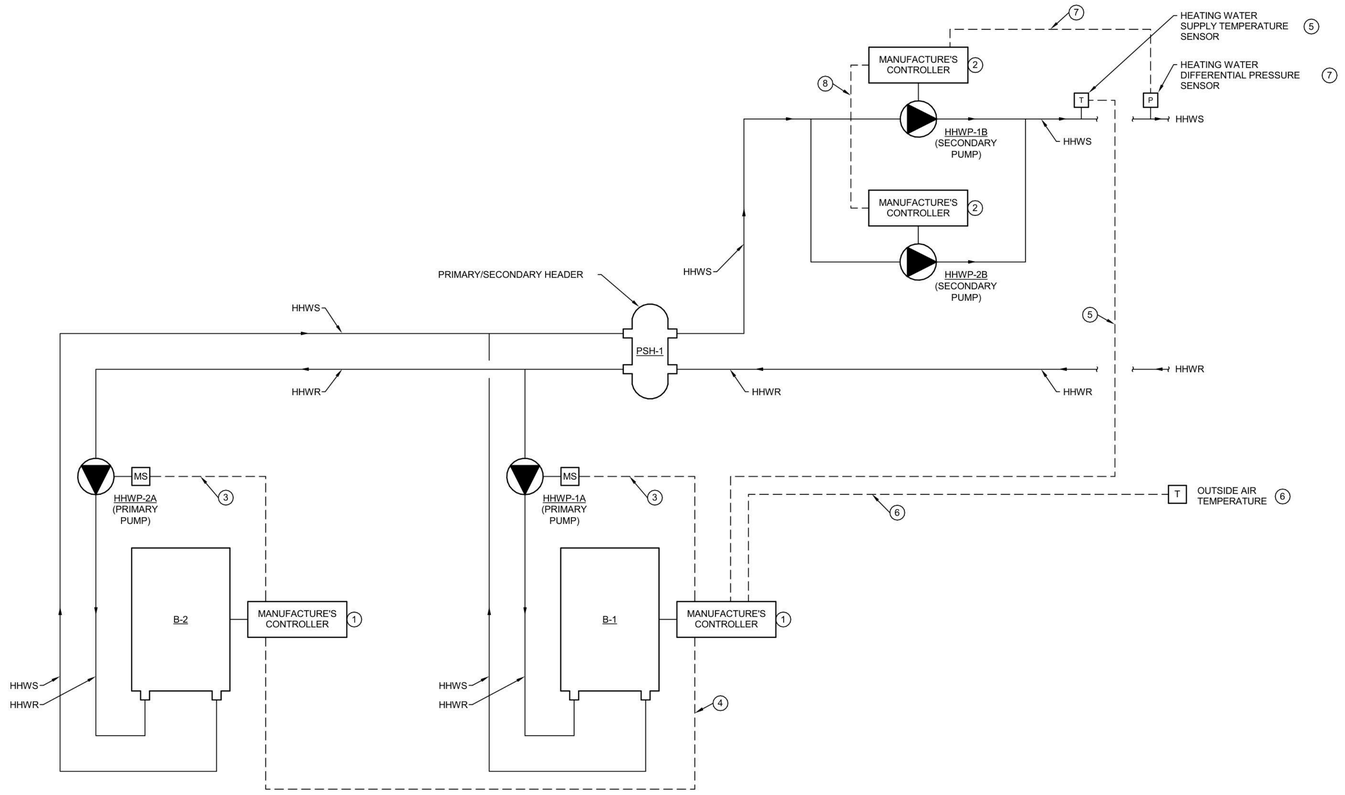
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DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE:
HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES

SHEET NUMBER:
ME701

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HEATING HOT WATER SCHEMATIC & CONTROLS DIAGRAM

SCALE: NONE

(#) PLAN NOTES:

1. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY BOILER MANUFACTURER.
2. PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY PUMP MANUFACTURER.
3. 120V WIRING FROM BOILER CONTROLLER TO BOILER PUMP (PRIMARY PUMP). WIRING BY ELECTRICAL CONTRACTOR.
4. CAT5 CABLE FOR COMMUNICATION BETWEEN BOILERS. WIRING BY ELECTRICAL CONTRACTOR.
5. 2-WIRE CONTROL WIRING FROM ANALOG INPUT FOR SYSTEM HEATING WATER SUPPLY TEMPERATURE. SENSOR FURNISHED BY MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR.
6. 2-WIRE CONTROL WIRING FROM ANALOG INPUT FOR OUTSIDE AIR TEMPERATURE. SENSOR FURNISHED BY MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR.
7. 2-WIRE CONTROL WIRING FROM PUMP CONTROLLER TO HEATING WATER DIFFERENTIAL PRESSURE SENSOR. DIFFERENTIAL PRESSURE SENSOR SIGNAL SHALL BE 4-20 mA. SENSOR FURNISHED BY PUMP MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. WIRING BY ELECTRICAL CONTRACTOR.
8. RS-485 WIRING BETWEEN THE TWO SECONDARY PUMP CONTROLLERS. WIRING BY ELECTRICAL CONTRACTOR.

SEQUENCE OF OPERATIONS

1. GENERAL:
   - A. BOILERS CONTROLLED BY PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY BOILER MANUFACTURER. CONTROLLER SHALL BE CAPABLE OF INDEPENDENT OPERATION WITHOUT INPUT FROM A CENTRAL BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL FULLY CONTROL THE HEATING WATER SYSTEM, INCLUDING THE SEQUENCE DESCRIBED BELOW UNDER THE HEADING "PRE-PROGRAMMED BOILER SEQUENCE."
   - B. SECONDARY PUMPS CONTROLLED BY PRE-PROGRAMMED DIGITAL CONTROLLER PROVIDED BY PUMP MANUFACTURER. CONTROLLER SHALL BE CAPABLE OF INDEPENDENT OPERATION WITHOUT INPUT FROM A CENTRAL BUILDING AUTOMATION SYSTEM. THE CONTROLLER SHALL FULLY CONTROL THE SECONDARY PUMPS, INCLUDING THE SEQUENCE DESCRIBED BELOW UNDER THE HEADING "PRE-PROGRAMMED SECONDARY PUMPS SEQUENCE."
   - C. THE BUILDING WILL NOT HAVE A CENTRAL BUILDING AUTOMATION SYSTEM.
   - D. BOILER AND SECONDARY PUMP MANUFACTURERS SHALL ASSIST WITH CONTROLS START-UP, INCLUDING VERIFICATION OF SEQUENCE, COORDINATION WITH TEST AND BALANCE CONTRACTOR, AND MODIFICATION OF TEMPERATURE AND PRESSURE SETPOINTS WITHIN EACH CONTROLLER.
2. PRE-PROGRAMMED BOILER SEQUENCE:
   - A. SET THE BOILER CONTROLLER TO OPERATE IN A LEAD-LAG CONFIGURATION. ONE BOILER WILL OPERATE AT A TIME. AFTER 30 DAYS THE LEAD AND LAG BOILER SHALL SWITCH SO THAT THE ACTIVE BOILER DEACTIVATES AND THE INACTIVE BOILER ACTIVATES.
   - B. ON A CALL FOR SYSTEM HEATING, THE LEAD BOILER PUMP SHALL ACTIVATE. ONCE FLOW THROUGH THE LEAD BOILER IS CONFIRMED WITH INTERNAL BOILER FLOW SWITCH, THE BOILER SHALL FIRE THROUGH MANUFACTURER'S SEQUENCE TO MAINTAIN THE THE HEATING WATER SUPPLY TEMPERATURE SET POINT AS MEASURED AT THE REMOTE SUPPLY TEMPERATURE SENSOR IN THE SECONDARY LOOP.
   - C. THE SUPPLY TEMPERATURE SET POINT SHALL BE RESET BASED ON OUTSIDE AIR TEMPERATURE PER THE SCHEDULE BELOW:
     - C.A. AT AN OUTSIDE AIR TEMPERATURE OF 50F OR GREATER, THE SUPPLY TEMPERATURE SHALL BE 110F.
     - C.B. BETWEEN AN OUTSIDE AIR TEMPERATURE OF 50F AND OF THE SUPPLY TEMPERATURE SHALL RAMP LINEARLY BETWEEN 110F AND 140F.
     - C.C. AT AN OUTSIDE AIR TEMPERATURE OF 0F OR LESS, THE SUPPLY TEMPERATURE SHALL BE 140F.
   - D. SAFETIES AND ALARMS: ALL MANUFACTURER SAFETIES AND ALARMS SHALL REMAIN OPERATIONAL.
   - E. NOTE: THE SECONDARY PUMPS WILL OPERATE INDEPENDENT OF THE BOILER CONTROLLER.
3. PRE-PROGRAMMED SECONDARY PUMPS SEQUENCE:
   - A. SET THE SECONDARY PUMP CONTROLLER TO "CONSTANT PRESSURE" OPERATION.
     - A.A. IN THIS CONFIGURATION THE PUMP SHALL MAINTAIN A CONSTANT DIFFERENTIAL PRESSURE WHILE SYSTEM FLOW RATE CHANGES BY MODULATING THE PUMP SPEED.
   - B. SET THE SECONDARY PUMPS CONTROLLERS TO THE "TWO PUMP CONTROL" MODE WITH "ALTERNATING OPERATION."
     - B.A. IN THIS CONFIGURATION ONE PUMP WILL OPERATE AT A TIME. THE OPERATING PUMP SHALL BE CALLED THE LEAD PUMP AND THE INACTIVE PUMP SHALL BE CALLED THE LAG PUMP.
     - B.B. AFTER 30 DAYS (OR THE MANUFACTURER'S AVAILABLE SWITCHING PERIOD) THE LEAD AND LAG PUMP SHALL SWITCH SO THAT THE ACTIVE PUMP DEACTIVATES AND THE INACTIVE PUMP ACTIVATES.
     - B.C. IF THE LEAD PUMP FAILS, THE LAG PUMP SHALL ACTIVATE. AN ALARM SHALL BE GENERATED WITHIN THE PUMP CONTROLLER.
   - C. TEST AND BALANCE CONTRACTOR TO DETERMINE THE SYSTEM DIFFERENTIAL PRESSURE SETPOINT.
   - D. MANUFACTURER'S START-UP REPRESENTATIVE TO SET-UP THE PRE-PROGRAMMED PUMP CONTROLLER AND INPUT THE DIFFERENTIAL PRESSURE SETPOINT IDENTIFIED BY THE TEST AND BALANCE CONTRACTOR.
   - E. NOTE: THE SECONDARY PUMPS ARE INTENDED TO OPERATE CONTINUOUSLY, INDEPENDENT OF THE BOILER CONTROLLER.

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE:
HVAC CONTROLS WIRING, DIAGRAMS, AND SEQUENCES

SHEET NUMBER:
ME702

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NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS NOT NECESSARILY USED ON THIS PROJECT.

GENERAL SYMBOLS:

- POINT OF CONNECTION
- POINT OF REMOVAL
- PLAN NOTE
- DEMOLITION NOTE
- REVISION
- DETAIL BUBBLE
- SECTION BUBBLE

VALVES & FITTINGS:

- GATE VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- CONTROL VALVE
- PRESSURE RELIEF, ANGLE TYPE VALVE
- REDUCED PRESSURE BACK FLOW PREVENTER
- INDICATED FLOW DIRECTION
- PIPE TURN 90°
- LINE BREAK
- PIPE ELBOW UP (RISE)
- PIPE ELBOW DOWN (DROP)
- PIPE TEE DOWN
- CAP OR PLUG
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC
- FLANGES
- UNION
- METER
- FD FLOOR DRAIN
- CO FLOOR CLEANOUT
- GAUGE
- THERMOMETER
- STEAM TRAP
- PRESSURE SENSOR
- INLINE PUMP
- WATER HAMMER ARRESTOR

PIPING DESIGNATIONS:

- NEW
- EXISTING TO REMAIN
- DEMOLITION
- FUTURE
- PIPE SLOPES IN DIRECTION OF ARROW
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- 140°F DOMESTIC HOT WATER 140°F
- 140°F DOMESTIC HOT WATER 140°F RETURN
- W WASTE PIPING
- ST STORM PIPING
- V SANITARY VENT
- D INDIRECT DRAIN
- AW ACID WASTE
- AV ACID VENT
- DI DEIONIZED WATER
- RODI REVERSE OSMOSIS DEIONIZED WATER
- LS LAWN SPRINKLER
- G GAS
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- FOV FUEL OIL VENT
- VAC VACUUM
- CA COMPRESSED AIR

PLUMBING ABBREVIATIONS:

AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AV	ACID VENT
AW	ACID WASTE
BDD	BACK DRAFT DAMPER
BF	BOTTLE FILLER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
℄	CENTERLINE
CO	CLEANOUT
CS	CUP SINK
CSS	CLINIC SERVICE SINK
CW	DOMESTIC COLD WATER
D	CONDENSATE/DRAIN
DB	DRY BULB
DCV	DOUBLE CHECK VALVE
DIA	DIAMETER
DN	DOWN
DWH	DOMESTIC WATER HEATER
ESEW	EMERGENCY SHOWER AND FACE/EYE WASH
EW	EMERGENCY EYE/FACE WASH
EWC	ELECTRIC WATER COOLER
EL	ELEVATION
ES	EMERGENCY SHOWER
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
HKSP	HOUSEKEEPING
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HWCP	HOT WATER RECIRCULATION PUMP
IE	INVERT ELEVATION
JS	JANITOR SINK
L	LAVATORY
MB	MOP BASIN
MFG	MANUFACTURER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
PH	PHASE
PIV	POST INDICATING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RO	REVERSE OSMOSIS
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SAN	SANITARY
SCW	DOMESTIC SOFT COLD WATER
SH	SHOWER
SI	SEDIMENT INTERCEPTOR
S	SINK
SS	STAINLESS STEEL
ST	STORM WATER
TD	TRENCH DRAIN
UR	URINAL
V	SANITARY VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

GENERAL NOTES:

A. VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BIDDING AND BEFORE BEGINNING WORK.
B. REVIEW THE WORK OF OTHER TRADES, COORDINATE AND PLAN WORK WITH THE OTHER TRADES AND OWNER. ADJUST AS A RESULT OF COORDINATION.
C. STORE EQUIPMENT AND COMPONENTS IN A CLEAN, DRY LOCATION UNTIL READY FOR INSTALLATION. PROTECT FROM WEATHER, DIRT, WATER, AND CONSTRUCTION DEBRIS, ETC. AT ALL TIMES. ANY DAMAGED EQUIPMENT OR COMPONENTS SHALL BE RESTORED AS NEW OR REPLACED.
D. ALL MATERIALS REMOVED AND NOT RELOCATED BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE MATERIALS FROM THE PROJECT SITE UNLESS NOTED OTHERWISE.
E. PATCH WALLS, FLOORS, CEILINGS, COLUMNS, ROOF PENETRATIONS, ETC. WHERE ITEMS ARE REMOVED TO MATCH ADJACENT SURFACES.
F. DRAWINGS SHOW THE INTENDED ARRANGEMENT AND ROUTING OF ALL PIPING, EQUIPMENT, AND APPURTENANCES. THEY SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT.
G. CLEAN ALL EQUIPMENT TO PRESENT A "LIKE NEW" CONDITION AT PROJECT COMPLETION.
H. OFFSET PIPING AROUND ELECTRICAL PANELS TO PROVIDE CLEARANCES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
I. SLOPE 2-1/2" AND SMALLER HORIZONTAL WASTE PIPE AT 1/4" PER FOOT. SLOPE 3" UP TO 6" HORIZONTAL WASTE PIPE AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE:
PLUMBING SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:
P001

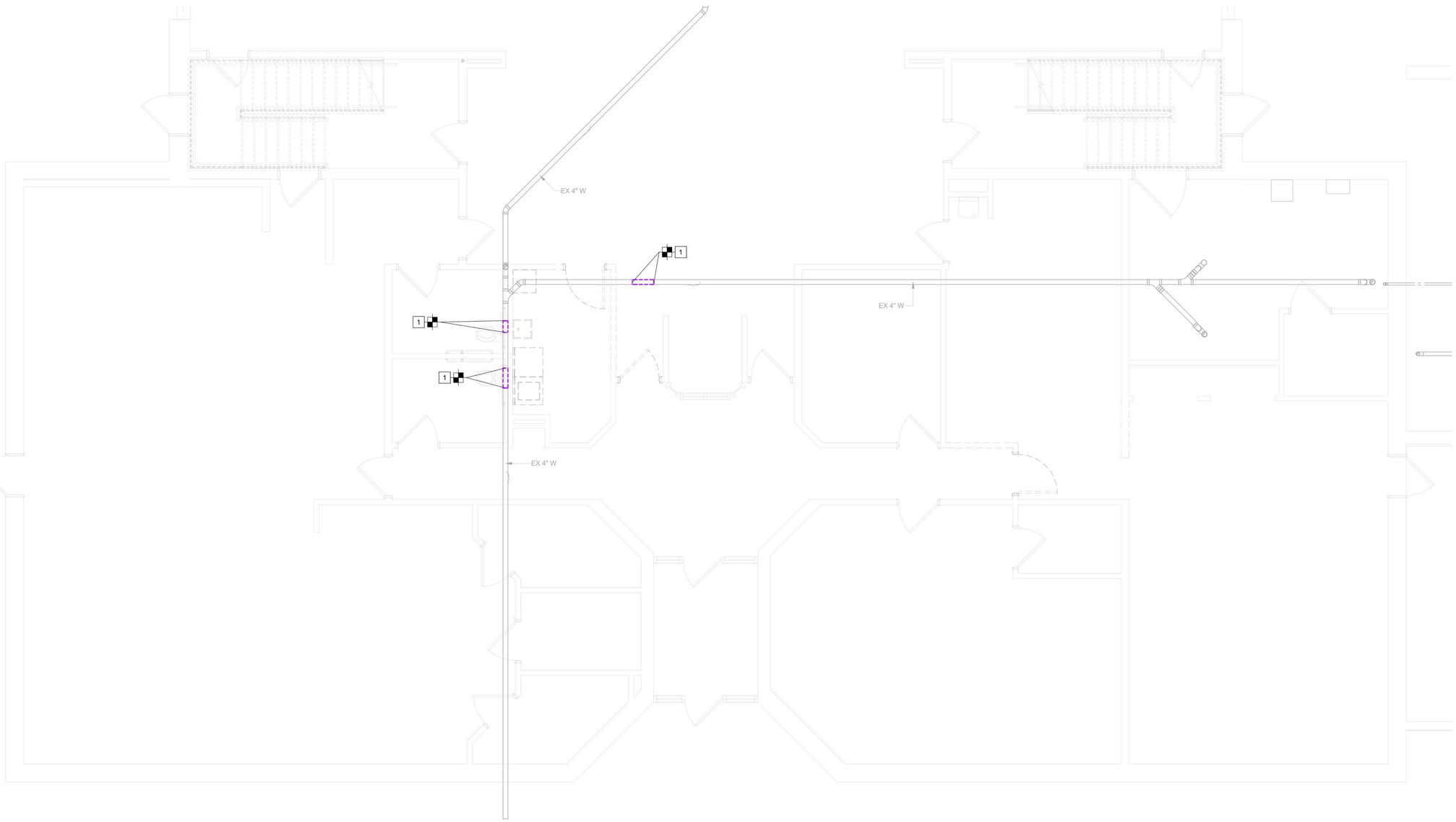
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DEMOLITION NOTES:

1. DEMOLISH EXISTING WASTE PIPING AND PREPARE CONNECTION FOR NEW DRAIN PIPING.

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.
B. THE PLUMBING CONTRACTOR SHALL SCOPE ALL PLUMBING LINES PRIOR TO BREAKING GROUND AND CUTTING FLOORS TO CONFIRM EXACT LOCATIONS OF ALL PLUMBING PIPES BELOW SLAB. THE CONTRACTOR SHALL ASSUME THAT THE LOCATIONS OF THE EXISTING PLUMBING SHOWN OR INDICATED ON THE DRAWINGS IS WITHIN 6-8' OF THE ACTUAL LOCATION SHOWN, FOR BIDDING PURPOSES. VERIFICATION BY THE PC AND AS PART OF THE PC SCOPE, VIA CAMERAS, AND SCOPING FOR THE EXISTING. ANY PLUMBING FOUND TO BE FURTHER, SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING OR BREAKING GROUND / CONCRETE FOR REVIEW. ALL CAMERA SESSIONS SHALL BE RECORDED AND COPIES GIVEN TO THE ARCHITECT.



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

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PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

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#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
UNDERSLAB PLUMBING DEMOLITION FLOOR PLAN

SHEET NUMBER:
P100

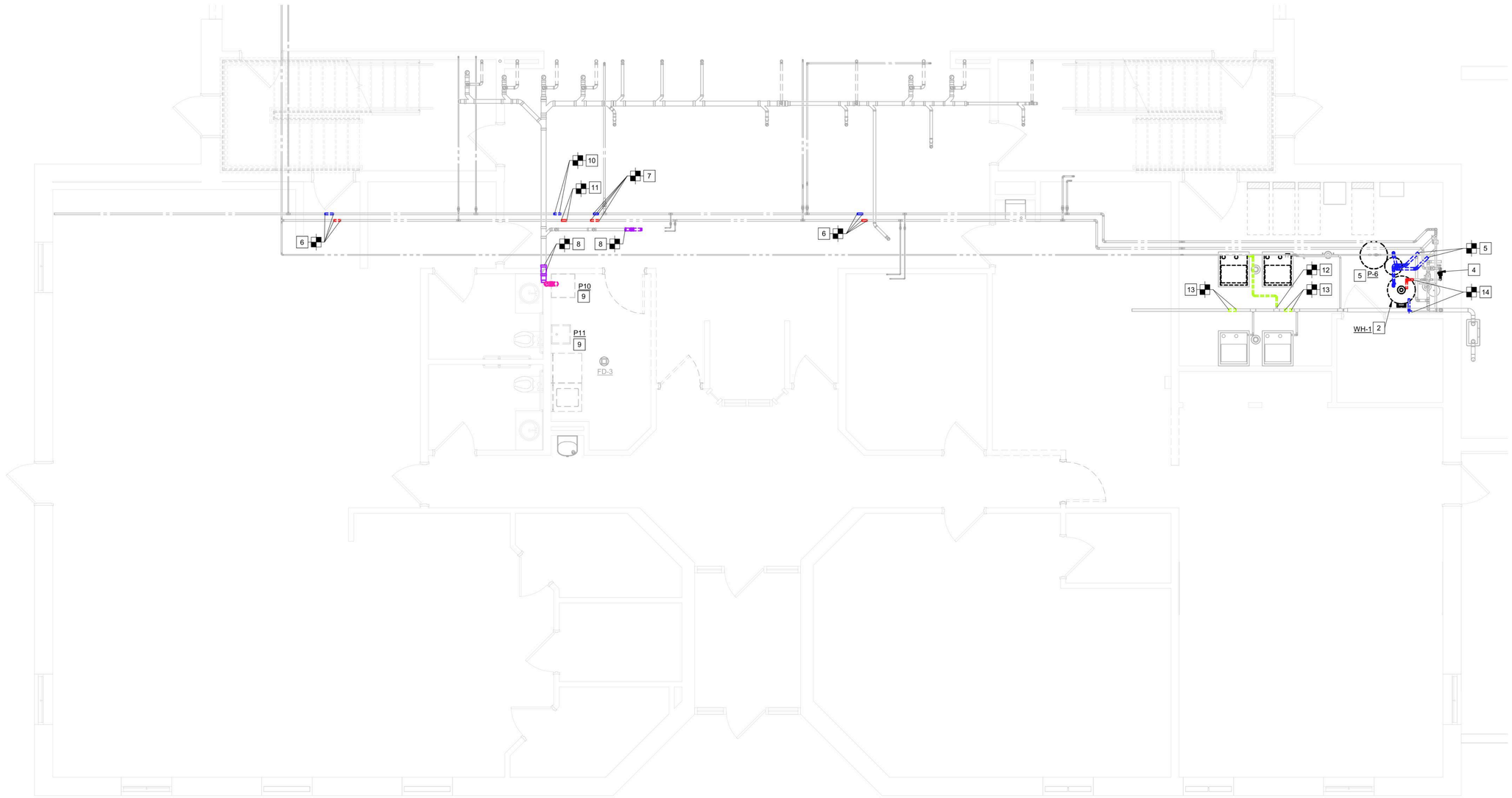
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DEMOLITION NOTES:

1. NOT USED.
2. DEMOLISH DOMESTIC WATER HEATER COMPLETE.
3. NOT USED.
4. DEMOLISH THERMOSTATIC MIXING VALVE.
5. DEMOLISH WATER SOFTENER TANKS AND PIPING FOR SINGLE TANK SYSTEM. PREPARE PIPING CONNECTIONS FOR TWO-TANK CONFIGURATION.
6. DEMOLISH EXISTING CW/HW PIPING AND PREPARE CONNECTIONS FOR NEW RISER TO SECOND FLOOR.
7. DEMOLISH EXISTING CW/HW PIPING AND PREPARE FOR NEW BRANCH CONNECTIONS.
8. DEMOLISH EXISTING WASTE PIPING AND PREPARE CONNECTION FOR NEW DRAIN PIPING.
9. DEMOLISH FIXTURES AND PIPING BACK TO MAIN WATER LINES. CONTRACTOR SHALL VERIFY BRANCH CONNECTION TO MAIN WATER LINES IN FIELD.
10. PREPARE EXISTING CW BRANCH CONNECTION FOR USE FOR NEW 1" CW BRANCH.
11. PREPARE EXISTING HW BRANCH CONNECTION FOR NEW 1" HW BRANCH.
12. DEMOLISH NATURAL GAS PIPING TO TWO EXISTING AIR HANDLERS TO BE REMOVED. CAP PIPING AT TEE.
13. REMOVE SEGMENT OF NATURAL GAS PIPING AND PREPARE FOR INSTALLATION OF NEW TEE AND BRANCH PIPING. SEE NEW PLAN FOR ADDITIONAL INFORMATION.
14. REMOVE DOMESTIC COLD WATER AND HOT WATER FROM EXISTING DOMESTIC WATER HEATER TO THE POINT INDICATED. PREPARE EXISTING ENDS FOR CONNECTION TO NEW PIPING.

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.
B. THE PLUMBING CONTRACTOR SHALL SCOPE ALL PLUMBING LINES PRIOR TO BREAKING GROUND AND CUTTING FLOORS TO CONFIRM EXACT LOCATIONS OF ALL PLUMBING PIPES BELOW SLAB. THE CONTRACTOR SHALL ASSUME THAT THE LOCATIONS OF THE EXISTING PLUMBING SHOWN OR INDICATED ON THE DRAWINGS IS WITHIN 6-8' OF THE ACTUAL LOCATION SHOWN, FOR BIDDING PURPOSES. VERIFICATION BY THE PC AND AS PART OF THE PC SCOPE, VIA CAMERAS, AND SCOPING FOR THE EXISTING. ANY PLUMBING FOUND TO BE FURTHER, SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING OR BREAKING GROUND / CONCRETE FOR REVIEW. ALL CAMERA SESSIONS SHALL BE RECORDED AND COPIES GIVEN TO THE ARCHITECT.



FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMISON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE:
FIRST FLOOR PLUMBING DEMOLITION FLOOR PLAN

SHEET NUMBER:
P101

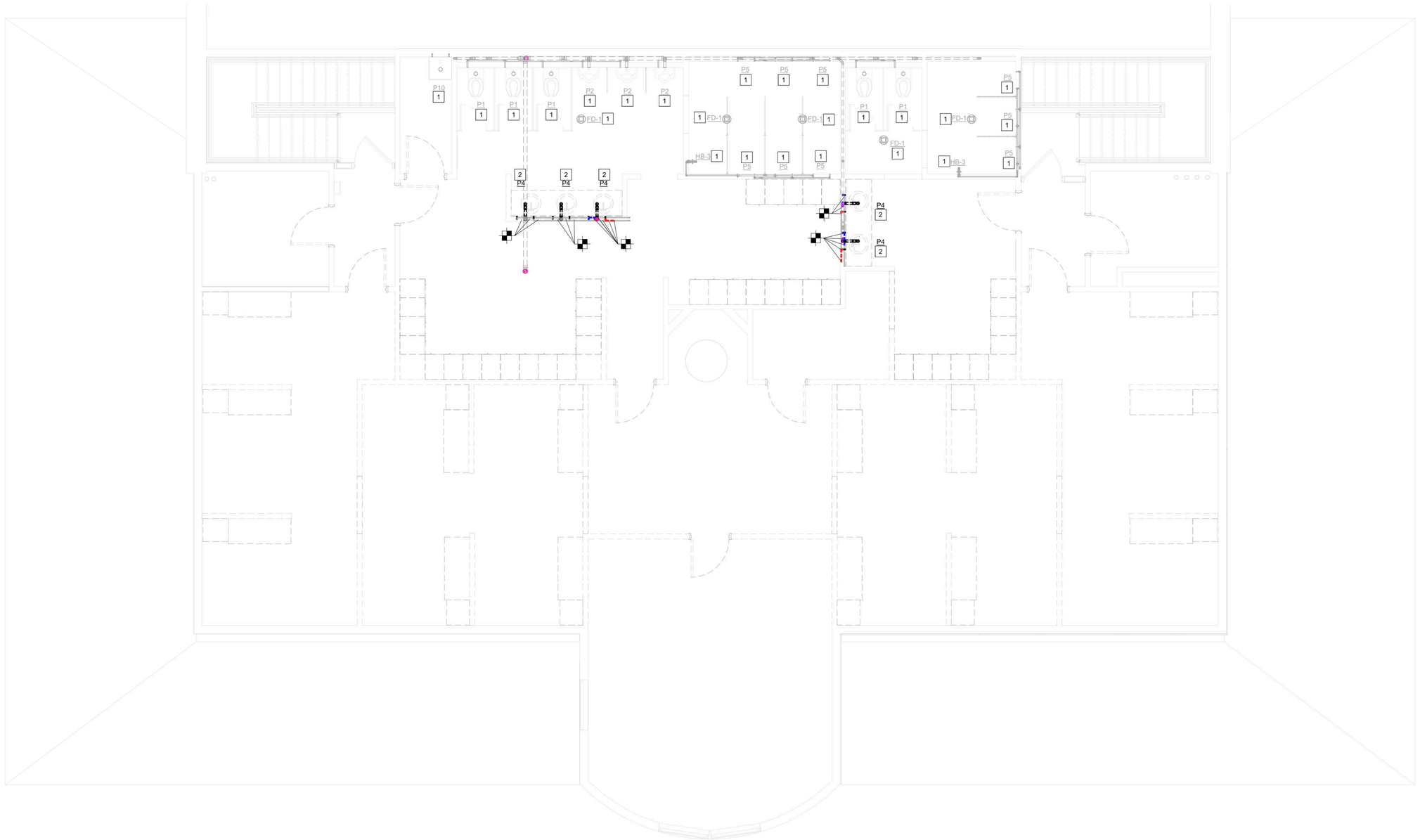
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GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.

[#] DEMOLITION NOTES:

1. FIXTURE IS EXISTING TO REMAIN.
2. DEMOLISH EXISTING LAVATORIES AND PREPARE CONNECTION FOR NEW FIXTURE.



SECOND FLOOR PLUMBING DEMOLITION PLAN

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

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DRAWING TITLE:

SECOND FLOOR PLUMBING DEMOLITION FLOOR PLAN

SHEET NUMBER:

P111

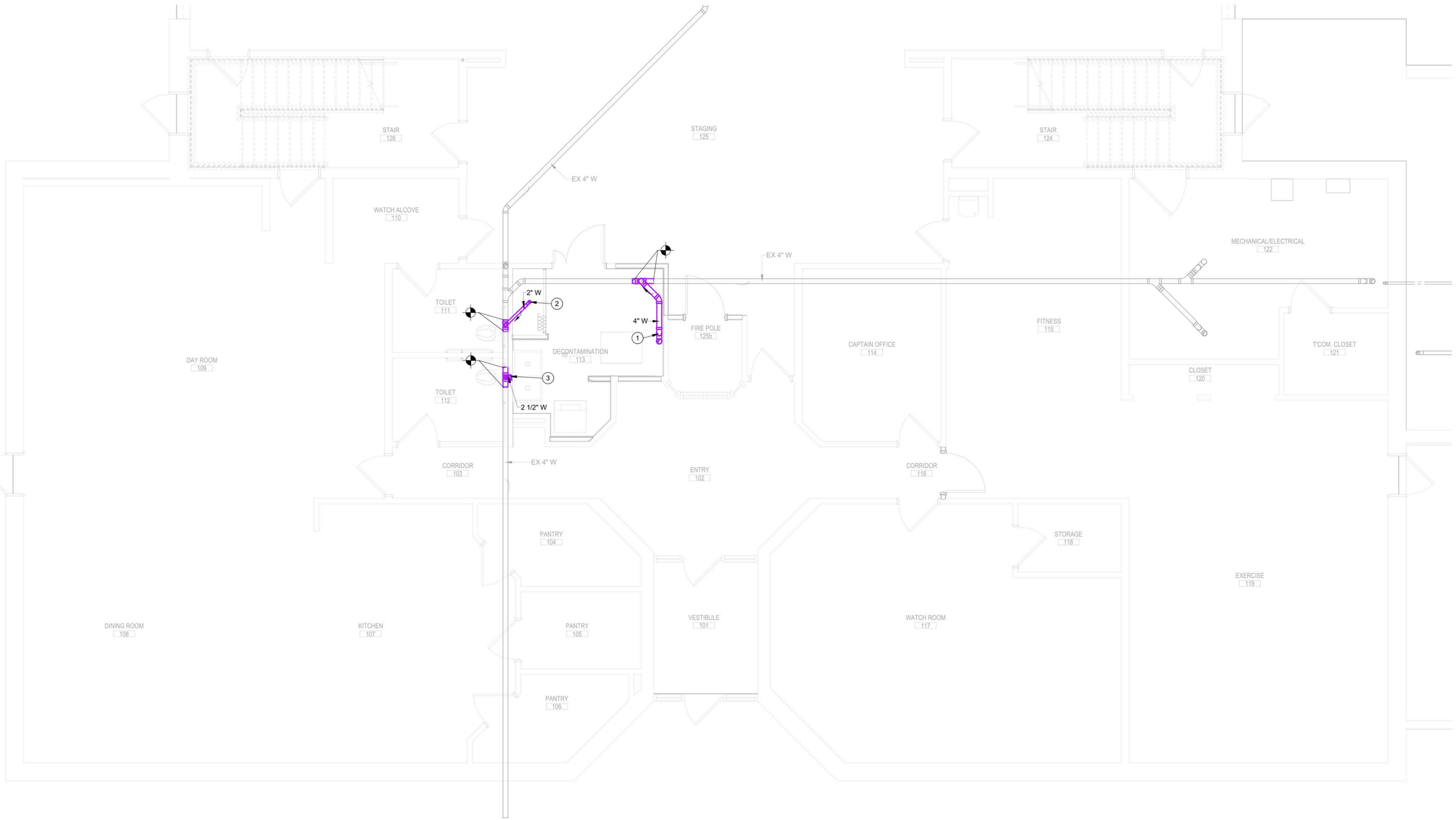
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8/14/2026 9:56:57 AM

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.

(#) PLAN NOTES:

1. 4" W WITH P-TRAP UP. SLOPE NEW 4" AT 1/4" PER FOOT.
2. 2" W WITH P-TRAP UP TO FLOOR DRAIN.
3. 2" W UP.



FOUNDATION PLUMBING PLAN

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

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PROFESSIONAL ENGINEER

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25-150

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DRAWING TITLE:

UNDERSLAB PLUMBING FLOOR PLAN

SHEET NUMBER:

P300

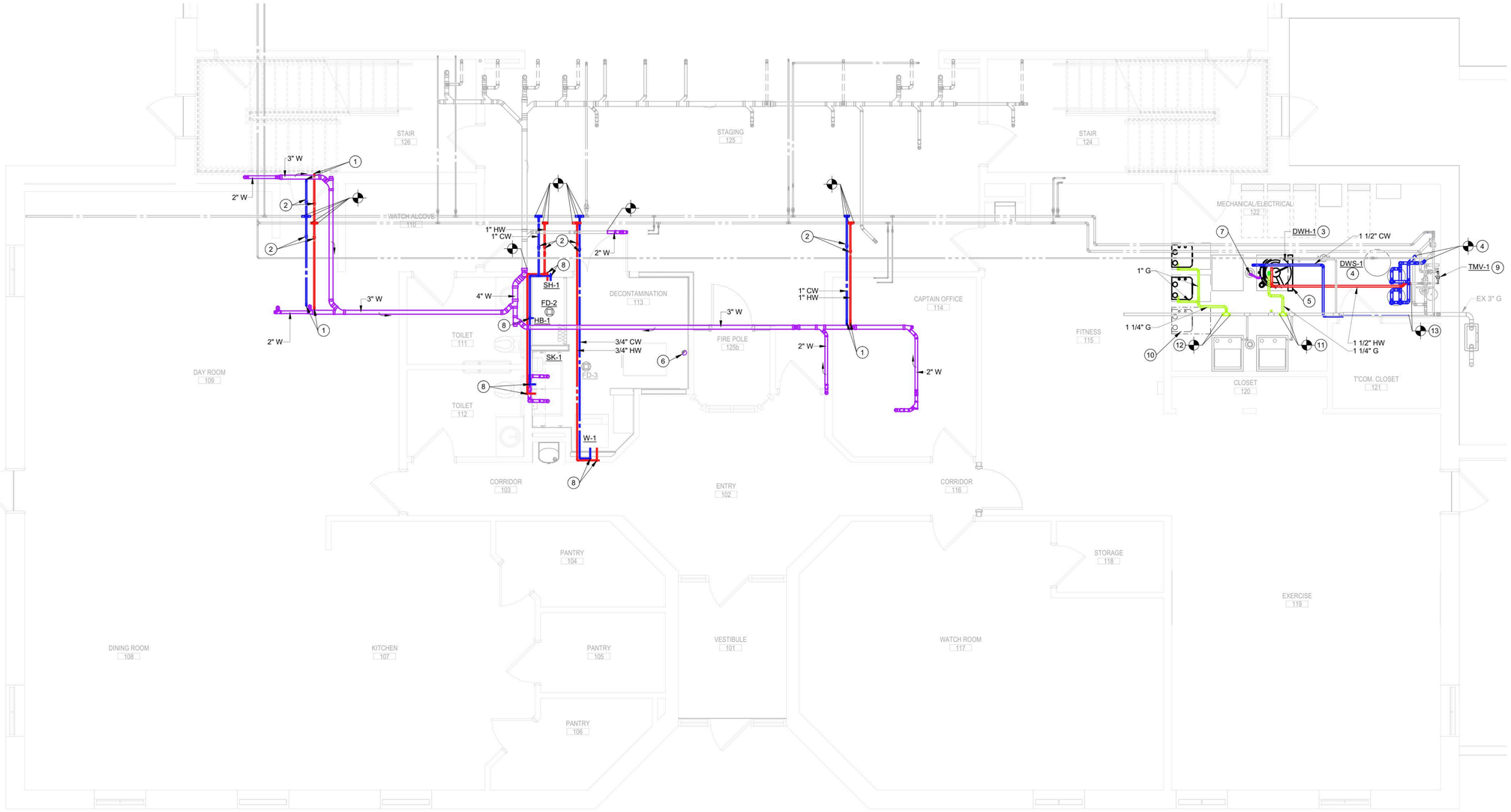
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(#) PLAN NOTES:

1. PROVIDE 1" DOMESTIC HW AND CW RISERS TO SERVE SECOND FLOOR FIXTURES. CONNECT RISERS TO EXISTING DOMESTIC WATER LOOP ON FIRST FLOOR. SEE SHEET P311 FOR CONTINUATION.
2. PROVIDE SHUT-OFF VALVES TO EACH BRANCH CONNECTION TO MAIN DOMESTIC HW/CW LINE. VALVE SIZE SHALL MATCH BRANCH PIPE SIZE. FIELD VERIFY CEILINGS PROVIDE ACCESS TO EACH VALVE.
3. PROVIDE DOMESTIC WATER HEATER. SEE SHEET M301 FOR FLUE AND COMBUSTION AIR PIPING.
4. PROVIDE DUPLEX SYSTEM WITH ONE BRINE TANK AND TWO MINERAL TANKS PIPED IN PARALLEL WITH ONE ANOTHER. SEE DETAIL 7 ON SHEET P501.
5. EXTEND EXISTING CONCRETE PAD TO LENGTH OF NEW DOMESTIC WATER HEATER. REBAR EXTENSION INTO EXISTING PAD. EXTENSION TO MATCH THE THECKNESS OF EXISTING PAD. SEE DETAIL 6 ON SHEET P501.
6. PROVIDE 4" WASTE PIPE SLOPED AT 1/4" PER FT AND CONNECT TO EXISTING. PROIVDE P-TRAP BELOW AND STUB UP THROUGH FLOOR TO 8" AFF WITH A GLUED CAP. CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR THE EXACT STUB-UP LOCATION PRIOR TO CUTTING FLOOR.
7. ROUTE DWH-1 DRAIN TO NEARBY EXISTING FLOOR DRAIN.
8. PROVIDE ISOLATION VALVES ON DOMESTIC CW/HW PIPES LEADING TO EACH FIXTURE. VALVE SIZE SHALL MATCH DOMESTIC HW/CW PIPE SIZE. PROVIDE ACCESS PANELS TO SHUT-OFF VALVES.
9. PROVIDE NEW THERMOSTATIC MIXING VALVE. SEE DETAIL 5 ON SHEET P501 FOR DWH-1 AND TMV-1 PIPING DETAILS.
10. KEEP SPACE CLEAR FOR FUTURE HEATING WATER BOILER.
11. CONNECT TO EXISTING NATURAL GAS MAIN. ROUTE BRANCH PIPING TO NEW WATER HEATER.
12. CONNECT TO EXISTING NATURAL GAS MAIN. ROUTE BRANCH PIPING TO TWO NEW HEATING WATER BOILERS.
13. CONNECT TO EXISTING DOMESTIC COLD WATER AND HOT WATER PIPING.

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.



FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"

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MICHAEL DAVID JAMISON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
FIRST FLOOR PLUMBING FLOOR PLAN

SHEET NUMBER:
P301

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8/14/2026 9:57:02 AM

GENERAL NOTES:

A. SEE SHEET P001 FOR GENERAL NOTES THAT APPLY TO ALL SHEETS.

(#) PLAN NOTES:

1. PROVIDE 1" DOMESTIC HW AND CW RISERS EXTENDING FROM EXISTING FIRST FLOOR DOMESTIC WATER PIPING.
2. PROVIDE ISOLATION VALVES ON DOMESTIC CW/HW PIPES LEADING TO EACH FIXTURE. VALVE SIZE SHALL MATCH DOMESTIC HW/CW PIPE SIZE. PROVIDE ACCESS PANELS TO SHUT-OFF VALVES.
3. PROVIDE DOMESTIC CLOTHES WASHER BOX WITH ISOLATION VALVES AND WATER HAMMER ARRESTORS FOR CLOTHES WASHER CONNECTIONS. SEE DETAIL 8 ON SHEET P501.



SECOND FLOOR PLUMBING PLAN

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

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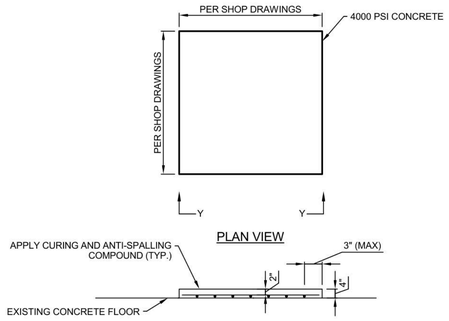
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DRAWING TITLE:
SECOND FLOOR PLUMBING FLOOR PLAN

SHEET NUMBER:
P311

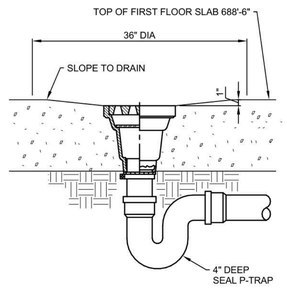
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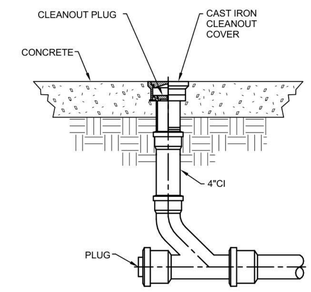
NOTES:

1. THE MIXING, HANDLING, PLACING, AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH THE ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
2. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, ACI 318 AND ACI 306. DO NOT PLACE DURING RAIN, SLEET, OR SNOW WITHOUT ADEQUATE PROTECTION.
3. ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
4. ALL REINFORCING STEEL BENDS, HOOKS, LAP SPLICES, AND MINIMUM CONCRETE COVER SHALL CONFORM TO THE ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) UNLESS OTHERWISE INDICATED.
5. ALL REINFORCING STEEL SHALL BE SUPPORTED AND SECURED AGAINST DISPLACEMENT IN ACCORDANCE WITH CONCRETE REINFORCING STEEL INSTITUTE'S "MANUAL OF STANDARD PRACTICE". OVERHANGING TAILS SHALL BE SUPPORTED BY TOP SLAB BARS. EACH SUPPORT BAR, OF PROPER LENGTH, MAY REPLACE A TEMPERATURE BAR IN THE PARALLEL DIRECTION. SHOW SLAB BAR SUPPORTS ON SHOP DRAWINGS.
6. ALL CONCRETE REINFORCEMENT MATERIALS SHALL BE NEW, FREE FROM RUST, AND COMPLYING WITH THE FOLLOWING REFERENCE STANDARDS:
   - 6.1. ALL REINFORCING BARS (EXCEPT AS NOTED BELOW) ASTM A-615, GRADE 60
   - 6.2. WELDED WIRE FABRIC: ASTM A-185

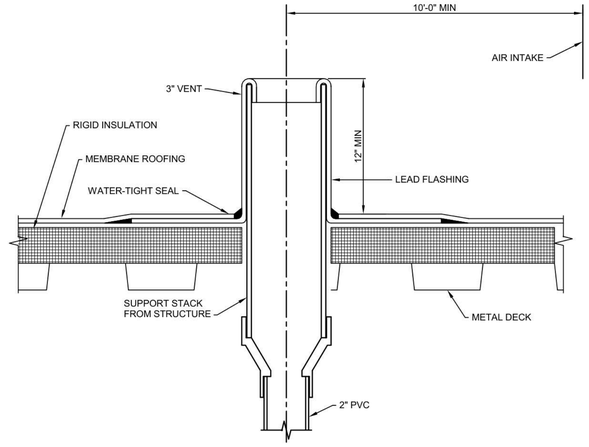
6 EQUIPMENT PAD EXPANSION DETAIL
SCALE: NONE



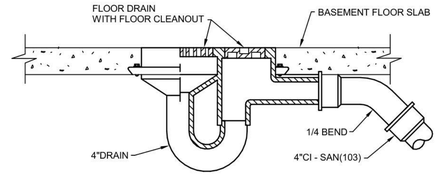
3 FLOOR DRAIN DETAIL (ON GRADE)
SCALE: NONE



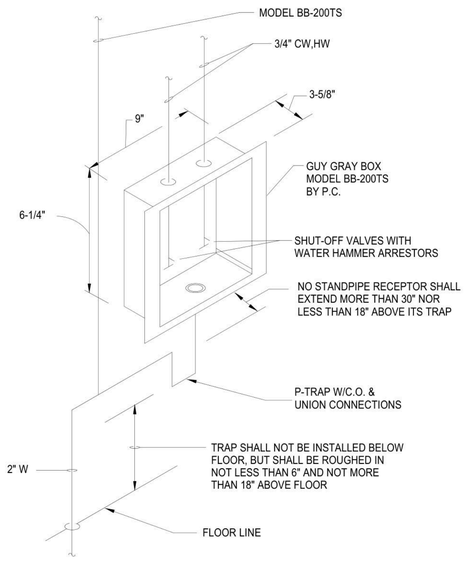
1 FLOOR CLEANOUT DETAIL
SCALE: NONE



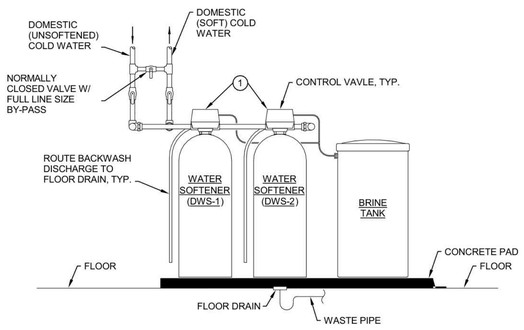
4 PLUMBING VENT DETAIL
SCALE: NONE



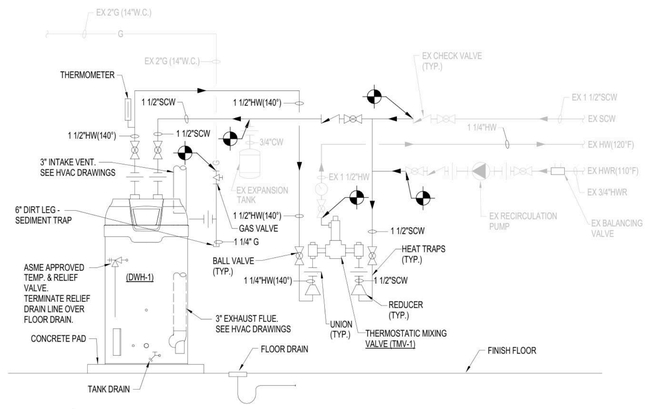
2 FLOOR DRAIN DETAIL
SCALE: NONE



8 DOMESTIC CLOTHES WASHER BOX DETAIL
SCALE: NONE



7 DUPLEX WATER SOFTENER PIPING DETAIL
SCALE: NONE



NOTES:

1. PROVIDE CONDENSATE NEUTRALIZATION KIT FOR WATER HEATER.
2. ROUTE DRAIN LINE(S) TO NEAREST FLOOR DRAIN.
3. SET WATER HEATER OUTLET TEMERATURE AT 140°F.
4. PROVIDE VENT KIT FOR WATER HEATER. SEE HVAC DRAWINGS.

5 DOMESTIC WATER HEATER PIPING DETAIL
SCALE: NONE

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE: PLUMBING DETAILS

SHEET NUMBER: P501

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PLUMBING EQUIPMENT SCHEDULE

TAG NO.	DESCRIPTION	PIPE CONNECTIONS					PERFORMANCE				BASIS OF DESIGN		DRY WGT. (LBS)	NOTES
		WASTE	VENT	CW	HW	GAS	GPM	P.D.	AMPS	VOLTS/Hz/PH	MFG.	MODEL		
DWS-1	TWIN WATER SOFTENER	FLOOR DRAIN	-	2"	-	-	-	-	-	-	FRANKLIN WATER TREATMENT	FWT2-120		TWIN WATER SOFTENERS, 4.0 CU. FT. (EACH), PROGRESSIVE FLOW, FLOW METERS, ON DEMAND REGENERATION UNITS, ELECTRONIC CONTROLS, 24" DIA. X 50" TALL BRINE TANK. SOFTENING DOMESTIC HOT AND COLD WATER FOR BUILDING.
DWH-1	DOMESTIC WATER HEATER	3/4"	3"	1-1/2"	1-1/2"	3/4"	47 GPM 60 GPM	15 PSI 25 PSI		120/60/1	AO SMITH	BTH-250(A)		100 GALLON CAPACITY TANK. RECOVERY 288 GPH AT 100°F. OPERATING SET POINT TO BE SET AT 140° F.
TMV-1	THERMOSTATIC MIXING VALVE	-	-	1"-1/4	1"-1/4	-	43	5 PSI	-	-	LAWLER	803	31	MASTER MIXING VALVE, ALL BRONZE CONSTRUCTION, BRASS FINISH WITH THERMOMETER, SHUT-OFF VALVES AND UNIOINS. SET POINT AT 120°F.
POU-TMV	POINT OF USE THERMOSTATIC MIXING VALVE (BELOW LAVRATORIES, SINKS, AND SHOWERS)	-	-	3/8"	3/8"	-	0.5	5 PSI	-	-	LAWLER	TMM-1070-87500	-	ALL BRONZE CONSTRUCTION, ASSE 1070, MECHANICAL MIXING VALVE, HIGH TEMPERATURE LIMIT STOP WITH AUTOMATIC RESET, INTEGRAL BACK FLOW CHECKS, COMPRESSION FITTINGS AND A MEANS TO ADJUST OUTLET TEMPERATURE.

PLUMBING FIXTURE SCHEDULE

TAG NO.	DESCRIPTION	NEEDED PIPE CONNECTIONS				FIXTURE PERFORMANCE (GPM/GPF)	BASIS OF DESIGN		MOUNTING HEIGHT	NOTES
		WASTE	VENT	CW	HW		MFG.	MODEL		
WC-1	WATER CLOSET ADA	3"	2"	3/4"	-	1.28	KOHLER	K-3999	16.5" AFF TO RIM	WATER CLOSET: "HIGHLINE COMFORT HEIGHT" FLOOR MOUNT, TWO PIECE, ELONGATED BOWL, 1.28 GPF, SEAT: KOHLER K-4636, CACHET QUIET-CLOSE, COLOR-MATCHED PLASTIC HINGES, PLASTIC.
L-1	LAVATORY	2"	1 1/2"	3/4"	3/4"	1.2	CORIAN DESIGN; KOHLER	7418 LAVATORY; K-16027-4	34" AFF TO RIM	LAVATORY: CHIC COLLECTION, U-SHAPED LAVATORY, ACRYLIC-POLYESTER SOLID SURFACE, NO OVERFLOW, OVERALL DIMENSIONS 21" X 14-1/8" X 5" WATER DEPTH. FAUCET: "JULY", SINGLE-HOLE, DECK-MOUNTED, SINGLE-LEVER MANUAL FAUCET, 1.2 GPM MAXIMUM FLOW RATE, 4-3/8" SPOUT REACH, STATIONARY SPOUT, CERAMIC DISC VALVE, BRASS CONSTRUCTION, INCLUDES METAL POP-UP DRAIN WITH 1-1/4" TAILPIECE, FLEXIBLE SUPPLY LINES, ADA AND WATERSENSE COMPLIANT.
SK-1	LAUNDRY SINK	2"	1 1/2"	3/4"	3/4"	1.5	JUST MANUFACTURING; KOHLER	USN-ADA-1821-A; K-22062	DECK MOUNTED	SINK: 18 GAUGE 304 STAINLESS STEEL SINGLE BOWL, INTEGRA-DRAIN INTEGRAL DRAIN SYSTEM, OVERALL DIMENSIONS 21" X 18" X 4-1/2" WATER DEPTH. FAUCET: "GRAZE", SINGLE-HOLE, DECK MOUNTED, SINGLE-LEVER MANUAL FAUCET, 1.5 GPM MAXIMUM FLOW RATE, 10-3/4" SPOUT REACH, 270° ROTATING SWING SPOUT, PULL-DOWN FAUCET WITH THREE-FUNCTION SPRAY HEAD, CERAMIC DISK VALVE, ZINC CONSTRUCTION, VIBRANT BRUSHED MODERNE BRASS COLOR.
SK-2	SERVICE SINK	2"	1 1/2"	3/4"	3/4"	1.5	ELKAY; CHICGO FAUCETS	RNSF8124LR2;629-ABCP	FAUCET TO BE FACE MOUNTED ON SINK SPLASH GUARD	SINK: 16 GAUGE, 300 STAINLESS STEEL, TWO COMPARTMENT SINK, 9" BACKSPLASH HEIGHT, TWO FAUCET HOLES, SINK DIMENSIONS 43" X 29-3/16" X 43-3/4", BOWL DIMENSIONS 18" X 24" 14", 3-1/2" CENTER DRAIN. FACUET: SINGLE-HOLE, REMOTE GOOSENECK SPOUT, 1.5 GPM MAXIMUM FLOW RATE, 3-1/2" CENTER-TO-CENTER GOOSENECK, CAST BRASS CONSTRUCTION, CHROME PLATED, LAMINAR FLOW CONTROL.
SH-1	SHOWER	2"	-	1 1/2"	1 1/2"	2	INPRO;KOHLER	PRISM SOLID SURFACE SHOWER PROTECTOR;K-TS98008-4	7' 5" AFF SHOWER HEAD	SHOWER:60"x30" STANDARD SHOWER BASE WITH CURB FAUCET: "JULY", SINGLE-HOLE, WALL MOUNTED, SINGLE-LEVER, 2.0 GPM, SINGLE-FUNCTION SHOWERHEAD WITH MASTERCLEAN SPRAYFACE. DRAIN: ZURN FD2250 SHOWER DRAIN, DURA-COATED CAST IRON BODY OR PVC/ABS BODY, CLAMP COLLAR, ADJUSTABLE PVC HEAD, SECURED STAINLESS STEEL STRAINER. VALVE: KOHLER K-8304-KS, SHOWER VALVE BODY AND CARTRIDGE KIT, INTEGRAL SERVICE STOPS, RITE TEMP® PRESSURE-BALANCING, DIRECT SWEAT INLETS/OUTLETS, 5.0 GPM MAXIMUM FLOW, MACHINED BRASS CONSTRUCTION.
HB-1	HOSE BIBB	-	-	3/4"	-		WOODFORD	MB24-3/4	24" AFG	SIPHON VACUUM BREAKER, STAINLESS STEEL DOOR, 3/4" MALE HOSE THREAD, LOOSE TEE KEY.
W-1	RESIDENTIAL WASHER	1-1/2"	-	3/4"	3/4"		GE	PTW700BSTWS		OWNER FURNISHED CONTRACTOR INSTALLED. PROVIDE DOMESTIC CLOTHES WASHER BOX AND HAMMER ARRESTORS.

DRAINING FIXTURE SCHEDULE

TAG NO.	DESCRIPTION	IPS SIZE	STRAINER	BASIS OF DESIGN		NOTES
				MFG.	MODEL	
FD-3	FLOOR DRAIN	SAME AS CONNECTING PIPE	NICKEL BRONZE ROUND	ZURN	Z415B	FLOOR DRAIN, DURA-COATED CAST IRON BODY, COMBINATION INVERTED MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, POLISHED NICKLE BRONZE, LIGHT DUTY STRAINER.

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PROFESSIONAL SEAL:

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No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

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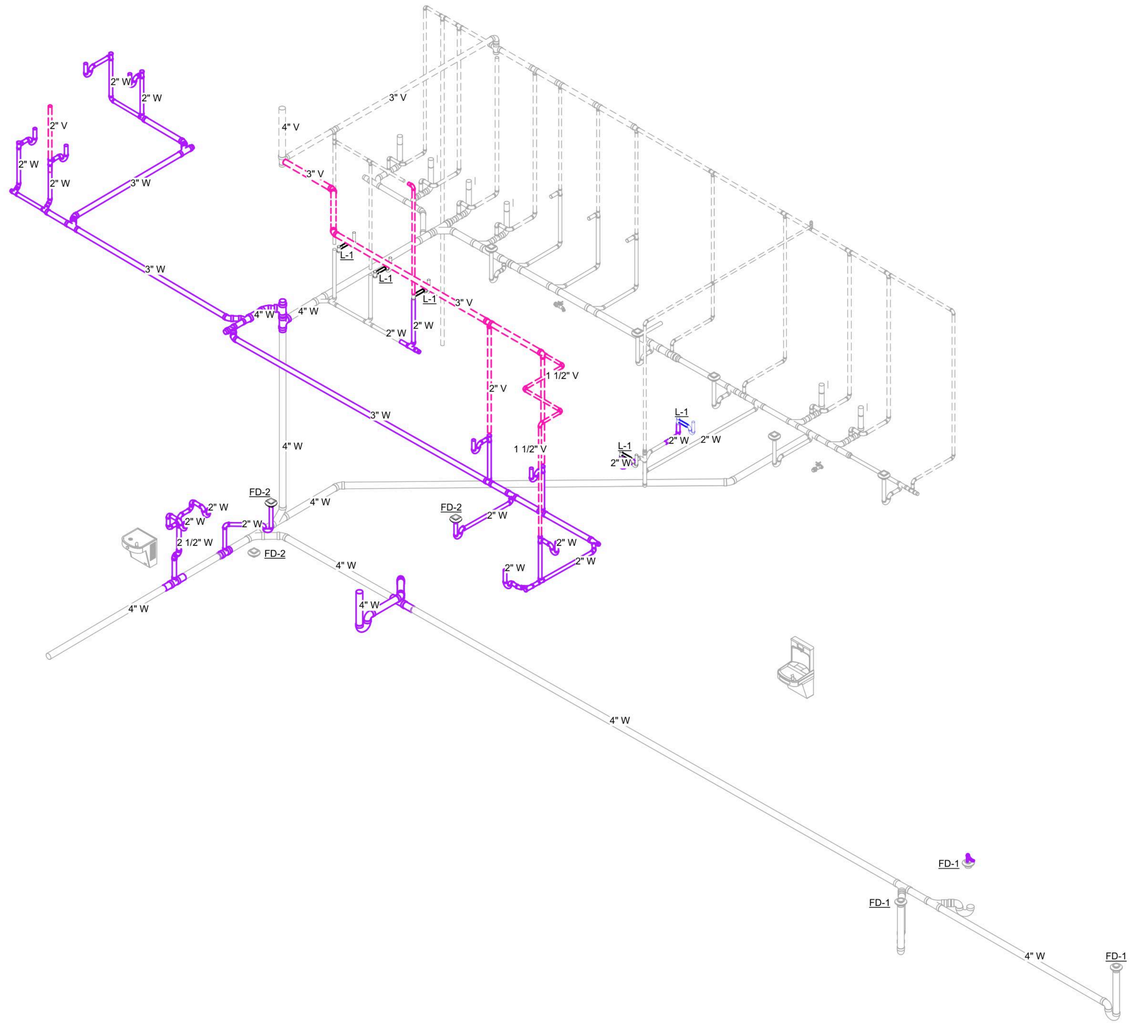
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DRAWING TITLE:
PLUMBING SCHEDULES

SHEET NUMBER:
P601

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
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STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

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PLUMBING DIAGRAMS

SHEET NUMBER:
P701

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NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS NOT NECESSARILY USED ON THIS PROJECT.

GENERAL SYMBOLS:

- POINT OF CONNECTION
- POINT OF REMOVAL
- PLAN NOTE
- DEMOLITION NOTE
- REVISION
- DETAIL BUBBLE
- SECTION BUBBLE

VALVES & FITTINGS:

- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- CONTROL VALVE
- REDUCED PRESSURE BACK FLOW PREVENTER
- INDICATED FLOW DIRECTION
- PIPE TURN 90°
- LINE BREAK
- PIPE ELBOW UP (RISER)
- PIPE ELBOW DOWN
- PIPE TEE DOWN
- CAP OR PLUG
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC
- FLANGES
- UNION
- METER
- FD FLOOR DRAIN
- GAUGE
- THERMOMETER
- STEAM TRAP
- PRESSURE SENSOR
- INLINE PUMP

PIPING DESIGNATIONS:

- NEW
- EXISTING TO REMAIN
- DEMOLITION
- FUTURE
- PIPE SLOPES IN DIRECTION OF ARROW
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- 140°F DOMESTIC HOT WATER 140°F
- 140°F DOMESTIC HOT WATER 140°F RETURN
- W WASTE PIPING
- ST STORM PIPING
- V SANITARY VENT
- D INDIRECT DRAIN
- AW ACID WASTE
- AV ACID VENT
- DE DEIONIZED WATER
- DI DISTILLED WATER
- RODI REVERSE OSMOSIS DEIONIZED WATER
- LS LAWN SPRINKLER
- G GAS
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- FOV FUEL OIL VENT
- VAC VACUUM
- A COMPRESSED AIR

FIRE PROTECTION PIPING SYMBOLS

- F FIRE PROTECTION
- PA PRE-ACTION
- FDP FIRE DRY PIPE
- FIRE DEPARTMENT SIAMESE CONNECTION (FREE STANDING)
- FIRE DEPARTMENT SIAMESE CONNECTION (WALL MOUNTED)
- FLOW SWITCH
- TS ZONE CONTROL VALVE WITH TAMPER SWITCH

PLUMBING ABBREVIATIONS:

AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AV	ACID VENT
AW	ACID WASTE
BDD	BACK DRAFT DAMPER
BF	BOTTLE FILLER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
℄	CENTERLINE
CO	CLEANOUT
CS	CUP SINK
CSS	CLINIC SERVICE SINK
CW	DOMESTIC COLD WATER
D	CONDENSATE/DRAIN
DB	DRY BULB
DCV	DOUBLE CHECK VALVE
DIA	DIAMETER
DN	DOWN
DWH	DOMESTIC WATER HEATER
ESEW	EMERGENCY SHOWER AND FACE/EYE WASH
EW	EMERGENCY EYE/FACE WASH
EWC	ELECTRIC WATER COOLER
EL	ELEVATION
ES	EMERGENCY SHOWER
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
HKSP	HOUSEKEEPING
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HWCP	HOT WATER RECIRCULATION PUMP
IE	INVERT ELEVATION
JS	JANITOR SINK
L	LAVATORY
MB	MOP BASIN
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
PH	PHASE
PIV	POST INDICATING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RO	REVERSE OSMOSIS
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SAN	SANITARY
SCW	DOMESTIC SOFT COLD WATER
SH	SHOWER
SI	SEDIMENT INTERCEPTOR
S	SINK
SS	STAINLESS STEEL
ST	STORM WATER
TD	TRENCH DRAIN
UR	URINAL
V	SANITARY VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

GENERAL NOTES:

A. VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BIDDING AND BEFORE BEGINNING WORK.
B. REVIEW THE WORK OF OTHER TRADES, COORDINATE AND -PLAN WORK WITH THE OTHER TRADES AND OWNER. ADJUST AS A RESULT OF COORDINATION.
C. STORE EQUIPMENT AND COMPONENTS IN A CLEAN, DRY LOCATION UNTIL READY FOR INSTALLATION. PROTECT FROM WEATHER, DIRT, WATER, AND CONSTRUCTION DEBRIS, ETC. AT ALL TIMES. ANY DAMAGED EQUIPMENT OR COMPONENTS SHALL BE RESTORED AS NEW OR REPLACED.
D. ALL MATERIALS REMOVED AND NOT RELOCATED BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE MATERIALS FROM THE PROJECT SITE UNLESS NOTED OTHERWISE.
E. PATCH WALLS, FLOORS, CEILINGS, COLUMNS, ROOF PENETRATIONS, ETC. WHERE ITEMS ARE REMOVED TO MATCH ADJACENT SURFACES.
F. DRAWINGS SHOW THE INTENDED ARRANGEMENT AND ROUTING OF ALL PIPING, EQUIPMENT, AND APPURTENANCES. THEY SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT.
G. CLEAN ALL EQUIPMENT TO PRESENT A "LIKE NEW" CONDITION AT PROJECT COMPLETION.
H. OFFSET PIPING AROUND ELECTRICAL PANELS TO PROVIDE CLEARANCES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMESON
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No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE: FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

SHEET NUMBER: FP001

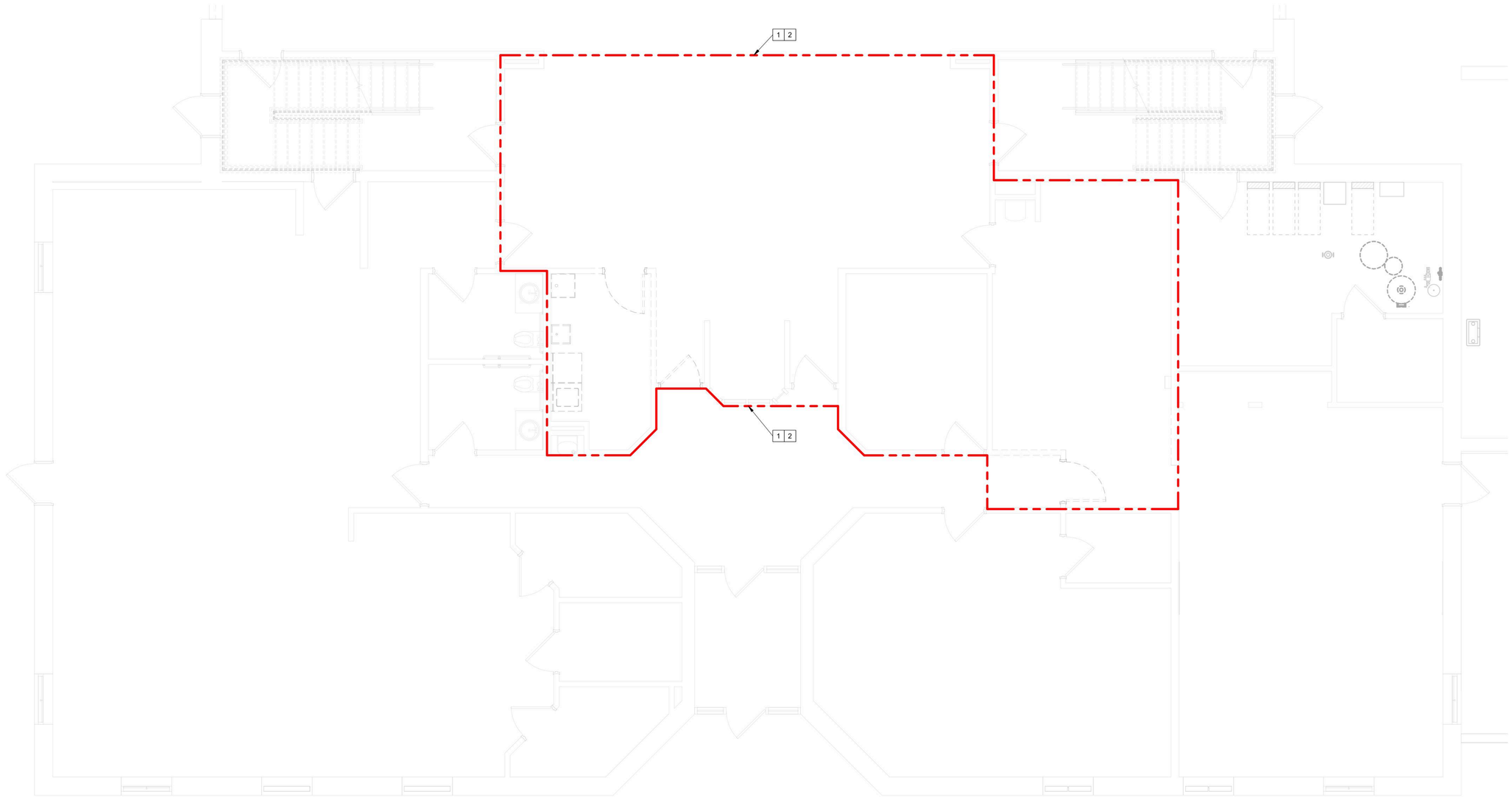
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GENERAL NOTES:

A. SEE FP001 FOR SYMBOLS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B. WORK INCLUDES MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM FOR NEW REARRANGEMENT OF WALLS, DOORS, CEILING HEIGHTS, ETC. CONTRACTOR SHALL VERIFY EXISTING LOCATIONS, ELEVATIONS, CONDITIONS, PIPE SIZES, ETC. AND MODIFY SPRINKLER SYSTEM AS REQUIRED.
C. THE EXISTING SPRINKLER BRANCH PIPING IS A CPVC SYSTEM INTENDED FOR USE IN FIRE PROTECTION SYSTEMS, SPEERS FLAMEGUARD.

DEMOLITION NOTES:

1. REMOVE ALL SPRINKLER HEADS WITHIN THE CONSTRUCTION BOUNDARY.
2. REMOVE SPRINKLER PIPING AS REQUIRED BY THE NEW FLOOR PLAN AND CEILING LAYOUT WITHIN THE CONSTRUCTION BOUNDARY.



FIRST FLOOR FIRE PROTECTION DEMOLITION PLAN

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

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FIRST FLOOR FIRE PROTECTION DEMOLITION

SHEET NUMBER:
FP101

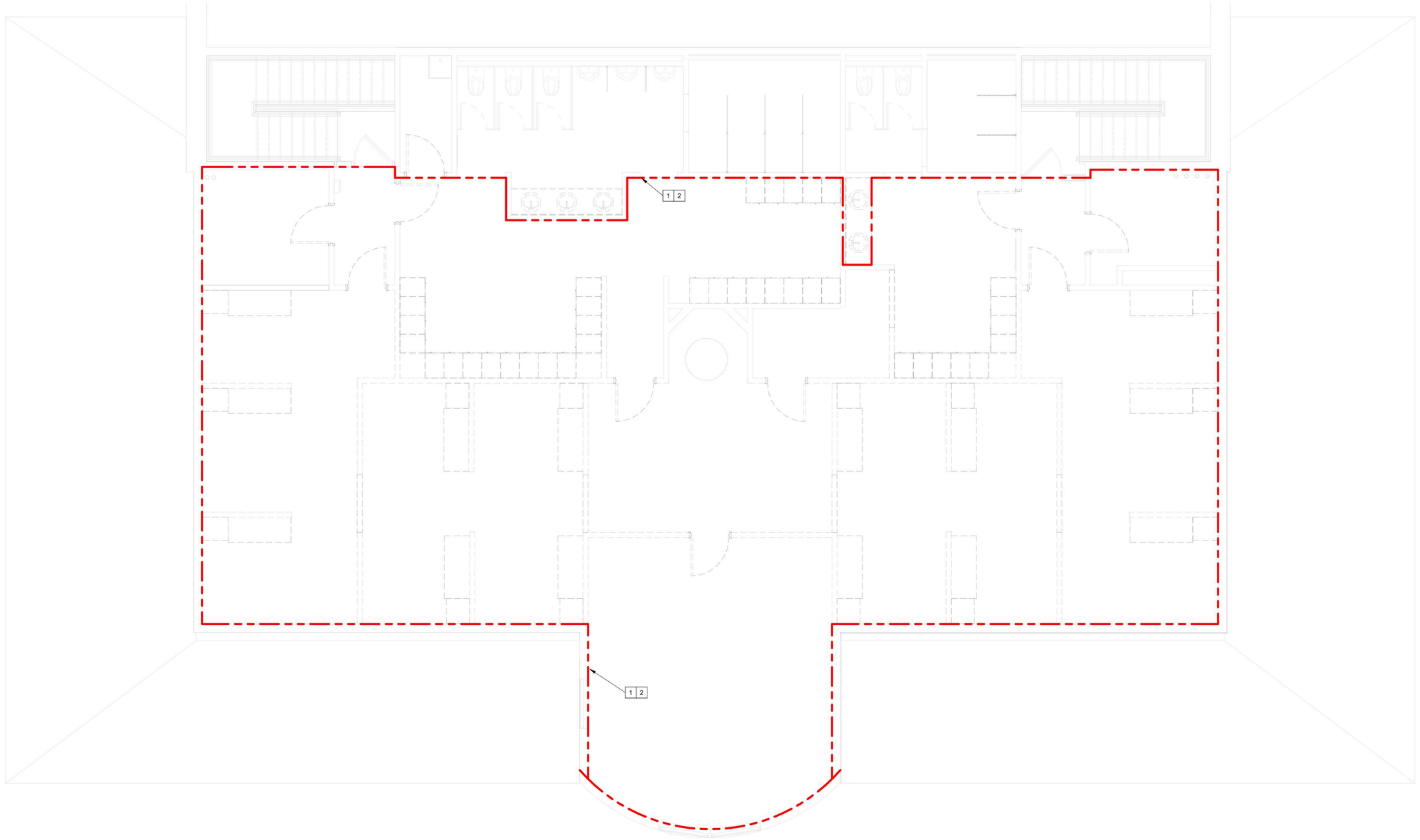
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GENERAL NOTES:

A. SEE FP001 FOR SYMBOLS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B. WORK INCLUDES MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM FOR NEW REARRANGEMENT OF WALLS, DOORS, CEILING HEIGHTS, ETC. CONTRACTOR SHALL VERIFY EXISTING LOCATIONS, ELEVATIONS, CONDITIONS, PIPE SIZES, ETC. AND MODIFY SPRINKLER SYSTEM AS REQUIRED.
C. THE EXISTING SPRINKLER BRANCH PIPING IS A CPVC SYSTEM INTENDED FOR USE IN FIRE PROTECTION SYSTEMS, SPEERS FLAMEGUARD.

DEMOLITION NOTES:

1. REMOVE ALL SPRINKLER HEADS WITHIN THE CONSTRUCTION BOUNDARY.
2. REMOVE SPRINKLER PIPING AS REQUIRED BY THE NEW FLOOR PLAN AND CEILING LAYOUT WITHIN THE CONSTRUCTION BOUNDARY.



SECOND FLOOR FIRE PROTECTION DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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DRAWING TITLE:
SECOND FLOOR FIRE PROTECTION DEMOLITION

SHEET NUMBER:
FP111

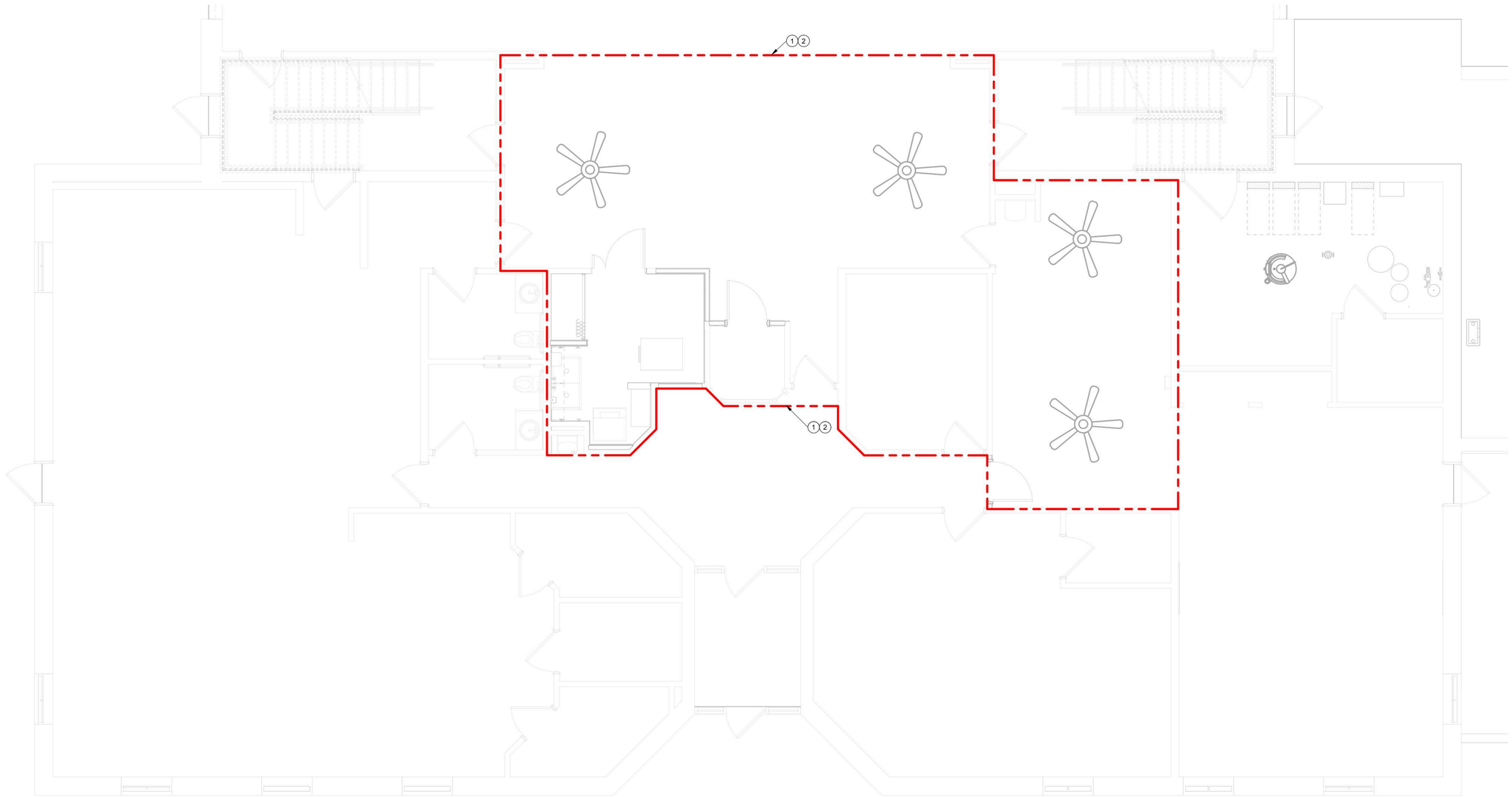
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GENERAL NOTES:

A. SEE FP001 FOR SYMBOLS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B. WORK INCLUDES MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM FOR NEW REARRANGEMENT OF WALLS, DOORS, CEILING HEIGHTS, ETC. CONTRACTOR SHALL VERIFY EXISTING LOCATIONS, ELEVATIONS, CONDITIONS, PIPE SIZES, ETC. AND MODIFY SPRINKLER SYSTEM AS REQUIRED.
C. THE EXISTING SPRINKLER BRANCH PIPING IS A CPVC SYSTEM INTENDED FOR USE IN FIRE PROTECTION SYSTEMS, SPEERS FLAMEGUARD. MODIFICATION TO EXISTING CPVC SPRINKLER PIPING SHALL BE BY THE SAME MANUFACTURER AS THAT WHICH IS CURRENTLY INSTALLED.

(#) PLAN NOTES:

1. PROVIDE NEW SPRINKLER HEADS WITHIN THE CONSTRUCTION BOUNDARY.
2. LAYOUT NEW SPRINKLER HEADS AND PIPING AS REQUIRED BY THE NEW FLOOR PLAN AND CEILING LAYOUT, WITHIN THE CONSTRUCTION BOUNDARY.



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

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3610 West 106th Street
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Carmel Fire Department
540 W 136th St
Carmel, IN 46032

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PROFESSIONAL SEAL:
MICHAEL DAVID JAMESON
REGISTERED
No. PE11500004
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE:
FIRST FLOOR FIRE PROTECTION FLOOR PLAN

SHEET NUMBER:
FP301

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GENERAL NOTES:

A. SEE FP001 FOR SYMBOLS, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B. WORK INCLUDES MODIFICATIONS TO THE EXISTING SPRINKLER SYSTEM FOR NEW REARRANGEMENT OF WALLS, DOORS, CEILING HEIGHTS, ETC. CONTRACTOR SHALL VERIFY EXISTING LOCATIONS, ELEVATIONS, CONDITIONS, PIPE SIZES, ETC. AND MODIFY SPRINKLER SYSTEM AS REQUIRED.
C. THE EXISTING SPRINKLER BRANCH PIPING IS A CPVC SYSTEM INTENDED FOR USE IN FIRE PROTECTION SYSTEMS, SPEERS FLAMEGUARD. MODIFICATION TO EXISTING CPVC SPRINKLER PIPING SHALL BE BY THE SAME MANUFACTURER AS THAT WHICH IS CURRENTLY INSTALLED.

(#) PLAN NOTES:

1. PROVIDE NEW SPRINKLER HEADS WITHIN THE CONSTRUCTION BOUNDARY.
2. LAYOUT NEW SPRINKLER HEADS AND PIPING AS REQUIRED BY THE NEW FLOOR PLAN AND CEILING LAYOUT, WITHIN THE CONSTRUCTION BOUNDARY.



SECOND FLOOR FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"

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PROFESSIONAL SEAL:

MICHAEL DAVID JAMISON
REGISTERED
No. PE11500004
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	MDJ	TMA

DRAWING TITLE:
SECOND FLOOR FIRE PROTECTION FLOOR PLAN

SHEET NUMBER:
FP311

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NOTE: ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION ON THE DRAWINGS. ALL SYMBOLS NOT NECESSARILY USED ON THIS PROJECT.

RACEWAY SYMBOLS:

- CONDUIT
- CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE
- UNDERGROUND CONDUIT STUBBED OUT 5'-0" FROM BUILDING OR WALKWAY LINE, CAPPED AND MARKED
- B#5,7 — HOME RUN TO PANEL "B" FOR CIRCUITS #5 & 7 WITH COMMON NEUTRAL AND GROUND
- CONDUIT UP/DOWN
- JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING AREA

RECEPTACLE SYMBOLS:

WALL RECEPTACLES 18" TO CENTER AFF UNLESS OTHERWISE NOTED EXCEPT FOR ABOVE COUNTER RECEPTACLES WHICH ARE +6" TO CENTER ABOVE COUNTER OR BLACKSPLASH COORDINATED WITH APPROVED SHOP DRAWINGS

- 20 AMP SIMPLEX GROUNDING RECEPTACLE - WALL, HORIZONTAL, ABOVE COUNTER, EMERGENCY POWER
- 20 AMP DUPLEX GROUNDING RECEPTACLE - WALL, HORIZONTAL, ABOVE COUNTER, EMERGENCY POWER, SPLIT WIRED
- 20 AMP DUPLEX GROUNDING RECEPTACLE, GROUND FAULT INTERRUPTING CIRCUIT - WALL, HORIZONTAL, ABOVE COUNTER, EMERGENCY POWER
- 20 AMP DOUBLE DUPLEX GROUNDING RECEPTACLE IN TWO GANG OUTLET BOX - WALL, ABOVE COUNTER, EMERGENCY POWER, SPLIT WIRED
- 20 AMP DOUBLE DUPLEX GROUNDING RECEPTACLE IN TWO GANG OUTLET BOX, GROUND FAULT INTERRUPTING CIRCUIT - WALL, ABOVE COUNTER, EMERGENCY POWER
- 20 AMP SIMPLEX GROUNDING RECEPTACLE, FLOOR MOUNTED - FLOOR, EMERGENCY POWER
- 20 AMP DUPLEX GROUNDING RECEPTACLE, FLOOR MOUNTED - FLOOR, EMERGENCY POWER, SPLIT WIRED
- 20 AMP DOUBLE DUPLEX GROUNDING RECEPTACLE, FLOOR MOUNTED - FLOOR, EMERGENCY POWER, SPLIT WIRED
- 20 AMP GROUNDING RECEPTACLE, CEILING MOUNTED - SIMPLEX, DUPLEX, DOUBLE DUPLEX
- SPECIAL RECEPTACLE - SEE DRAWING FOR NEMA TYPE
- OPTIONS - CONTROLLED, HALF-CONTROLLED, TAMPER RESISTANT USB, WEATHERPROOF
- SURFACE MULTI-OUTLET RACEWAY WITH RECEPTACLES 24" ON CENTER UNLESS OTHERWISE NOTED

LIGHTING CONTROL SYMBOLS:

- $^{3}_{a}$ — 20 AMP POLE TOGGLE SWITCH 48" AFF TO TOP UNLESS OTHERWISE NOTED. INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE. SUBSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING:

  TOP: 2 - DOUBLE POLE; 3 - THREE WAY; D - DIMMER; LV - LOW-VOLTAGE PUSH BUTTON TYPE TOGGLE SWITCH; 4 - FOUR WAY; P - PILOT LIGHT; LC - LIGHT CONTROLLER; M - MOMENTARY; K - KEY OPERATED; BLANK - SINGLE POLE

  BOTTOM: a,b,c,d, ETC. - IDENTIFICATION OF CONTROLLED DEVICE
- OCCUPANCY SENSOR SWITCH, CEILING MOUNTED
- OCCUPANCY SENSOR SWITCH, WALL MOUNTED
- DAYLIGHT SENSOR SWITCH, CEILING MOUNTED
- DAYLIGHT SENSOR SWITCH, WALL MOUNTED
- RC — LIGHTING ROOM CONTROLLER
- R — LIGHTING ISOLATED RELAY

POWER/MOTOR CONTROL SYMBOLS:

- PANELBOARD OR EQUIPMENT CABINET AS INDICATED
- NEC REQUIRED WORKING SPACE
- MOTOR, NUMBER INDICATES HP
- $^{T}_{P}$ — MANUAL MOTOR STARTER WITH THERMAL OVERLOADS AND PILOT LIGHT, 48" AFF
- X — SAFETY (DISCONNECT) SWITCH, INSTALL AT 60" AFF, "F" INDICATES FUSE SIZE, BLANK INDICATES NON-FUSED, "X" INDICATES AMPERAGE RATING
- COMBINATION STARTER: SEE SCHEDULE.

LIGHTING SYMBOLS:

- a/b / F# — LIGHTING FIXTURE, "a/b" INDICATES SWITCHING, "F#" INDICATES TYPE
- LIGHTING FIXTURE EMERGENCY CIRCUIT, AS INDICATED.
- ALWAYS ON NIGHT LIGHT
- a / F# — ROUND LIGHTING FIXTURE, "a" INDICATES SWITCHING, "F#" INDICATES TYPE
- a / F# — WALL MOUNTED LIGHTING FIXTURE, "a" INDICATES SWITCHING, "F#" INDICATES TYPE
- SINGLE ARM LIGHTING STANDARD, POLE MOUNTED LUMINAIRE AND POLE SUPPORT BASE
- DOUBLE ARM LIGHTING STANDARD, POLE MOUNTED LUMINAIRE AND POLE SUPPORT BASE
- LIGHTING FIXTURE ON LIGHTING TRACK, CEILING MOUNTED
- SINGLE FACE EXIT SIGN. ARROW INDICATES DIRECTIONAL ARROW ON EXIT SIGN FACE
- EXIT SIGN, WALL MOUNTED 8'-0" AFF UNLESS OTHERWISE NOTED
- EMERGENCY BATTERY UNIT WITH TWO HEADS, WALL MOUNTED 8'-0" AFF UNLESS OTHERWISE NOTED

FIRE ALARM SYMBOLS:

ALL FIRE ALARM WORK BY DIV. 28. DIV 26 SHALL PROVIDE ROUGH-INS AND CONDUITS PER DETAILS, UNLESS OTHERWISE NOTED.

- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- NAC — NOTIFICATION ALARM CIRCUIT
- F — FIRE ALARM MANUAL PULL STATION, 48" AFF TO TOP UNLESS OTHERWISE NOTED.
- F — FIRE ALARM MANUAL PULL STATION, AUDIO-VISUAL INDICATING DEVICE CENTERED ABOVE THE PULL STATION, 48" AFF AND +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED
- V — FIRE ALARM VISUAL ONLY INDICATING DEVICE, +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED

CEILING	WALL	
AV	AV	FIRE ALARM AUDIO/VISUAL INDICATING DEVICE, WALL MOUNT +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED
SV	SV	FIRE ALARM SPEAKER/VISUAL INDICATING DEVICE, WALL MOUNT +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED
S	S	FIRE ALARM SPEAKER ONLY INDICATING DEVICE, WALL MOUNT +80" AFF
V	V	FIRE ALARM VISUAL ONLY INDICATING DEVICE, WALL MOUNT +80" AFF LIGHT OUTPUT 75 cd UNLESS OTHERWISE NOTED
C	C	FIRE ALARM CHIME ONLY INDICATING DEVICE, WALL MOUNT +80" AFF
A	A	FIRE ALARM AUDIO HORN INDICATING DEVICE, WALL MOUNT +80" AFF

- BELL
- SD — AREA SMOKE DETECTOR
- HD — AREA HEAT DETECTOR
- FS — FLOW SWITCH, FIRE ALARM
- TS — TAMPER SWITCH, FIRE ALARM
- DS — DOOR SWITCH, FIRE ALARM
- AS — AIR DUCT SMOKE DETECTOR MOUNTED ON AIR DUCT
- LA — LOW AIR
- PS — PRESSURE SWITCH
- DOOR HOLD

TELECOMMUNICATION SYMBOLS:

- X — DATA OUTLET IN TWO GANG BOX WITH SINGLE GANG OPENING, "X" INDICATES NUMBER OF DATA JACKS
- X/X — VOICE/DATA OUTLET IN TWO GANG BOX WITH SINGLE GANG OPENING, "X/X" INDICATES NUMBER OF VOICE/DATA JACKS
- X — VOICE OUTLET IN TWO GANG BOX WITH SINGLE GANG OPENING, "X" INDICATES NUMBER OF VOICE JACKS
- X/X — FLUSH FLOOR VOICE/DATA OUTLET, "X/X" INDICATES NUMBER OF VOICE/DATA JACKS
- X — FLOOR OUTLET, DATA OUTLET CONSISTS OF (2) DATA OUTLETS UNLESS OTHERWISE NOTED, EACH ALPHA CHARACTER "X" INDICATES NUMBER OF UNIQUE DATA JACKS
- AC-X — CEILING MOUNTED OUTLET, DATA OUTLET CONSISTS OF (2) DATA OUTLETS, UNLESS OTHERWISE NOTED, EACH ALPHA CHARACTER "X" INDICATES NUMBER OF UNIQUE DATA JACKS
- AP-X — CEILING MOUNTED WIRELESS ACCESS POINT OUTLET, DATA OUTLET CONSISTS OF (2) DATA OUTLETS, UNLESS OTHERWISE NOTED, EACH ALPHA CHARACTER "X" INDICATES NUMBER OF UNIQUE DATA JACKS
- SURFACE DATA/TELECOM RACEWAY
- S — CEILING MOUNTED SPEAKER
- PAGING HORN TYPE SPEAKER
- TV — TELEVISION/VIDEO OUTLET IN TWO GANG BOX WITH SINGLE GANG OPENING

SECURITY/ACCESS CONTROL SYMBOLS

- CR — CARD READER, WALL MOUNT +48" AFF TO TOP UNLESS OTHERWISE NOTED.
- KP — KEYPAD
- PB — PANIC BUTTON, WALL MOUNT +48" AFF TO TOP UNLESS OTHERWISE NOTED.
- RX — REQUEST TO EXIT, IF A SEPARATE BUTTON AND NOT BUILT INTO THE DOOR HARDWARE WALL, MOUNT +48" AFF TO TOP UNLESS OTHERWISE NOTED.
- DS — DOOR STATUS
- ES — ELECTRIC STRIKE
- ML — MAG LOCK
- AA — AUDIBLE ALARM

DIAGRAM SYMBOLS:

- GROUND ROD (SINGLE LINE DIAGRAM)
- GROUND ROD (PLAN DRAWING)
- LIGHTNING ROD
- EXOTHERMIC WELDED CONNECTION
- T — TRANSFORMER, 480V PRIMARY, 120/208 VOLT SECONDARY, 3 PHASE, 4 WIRE UNLESS OTHERWISE NOTED
- CURRENT & VOLTAGE TRANSFORMERS AS REQUIRED (REFER TO SPECIFICATIONS)
- AM — AMMETER, (REFER TO SPECIFICATIONS)
- VM — VOLTMETER, (REFER TO SPECIFICATIONS)
- FUSE
- 30A 3P — CIRCUIT BREAKER (C.B.)
- PUSHBUTTON, NORMALLY OPEN
- PUSHBUTTON, NORMALLY CLOSED
- LEVEL SWITCH, NORMALLY OPEN
- LEVEL SWITCH, NORMALLY CLOSED
- LIMIT SWITCH, NORMALLY OPEN
- LIMIT SWITCH, NORMALLY CLOSED
- PRESSURE SWITCH, NORMALLY OPEN
- PRESSURE SWITCH, NORMALLY CLOSED
- FLOW SWITCH, NORMALLY OPEN
- FLOW SWITCH, NORMALLY CLOSED
- ON-DELAY TIMING CONTACT, NORMALLY OPEN
- ON-DELAY TIMING CONTACT, NORMALLY CLOSED
- OFF-DELAY TIMING CONTACT, NORMALLY OPEN
- OFF-DELAY TIMING CONTACT, NORMALLY CLOSED
- TEMPERATURE SWITCH, NORMALLY OPEN
- TEMPERATURE SWITCH, NORMALLY CLOSED
- RELAY CONTACT, NORMALLY OPEN
- RELAY CONTACT, NORMALLY CLOSED
- SOLENOID VALVE (WIRING DIAGRAM)
- R — PUSH-TO-TEST PILOT LIGHT
- XXXX / XXXX, x, x — 2-POSITION SELECTOR SWITCH
- OFF, HAND, AUTO, x, x — 3-POSITION SELECTOR SWITCH
- TERMINAL BLOCK
- CONTROL TRANSFORMER
- CONTROL TRANSFORMER

GENERAL SYMBOLS:

- NEW
- EXISTING TO REMAIN
- DEMOLITION
- FUTURE
- POINT OF CONNECTION
- POINT OF REMOVAL
- # — PLAN NOTE
- # — DEMOLITION NOTE
- # — REVISION
- X / X — DETAIL OR SECTION MARKER

ELECTRICAL ABBREVIATIONS:

#/C	MULTI-CONDUCTOR CABLE
1/C	SINGLE CONDUCTOR CABLE
20AF	20 AMP FUSES
3P	3 POLE
A, AMP	AMPERE
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR. MOUNTING HEIGHTS FROM FINISHED FLOOR TO TOP OF BOX
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
CH	CABINET HEATER
℄	CENTERLINE
E	EXISTING EQUIPMENT TO BE REUSED
EF	EXHAUST FAN
EX	EXISTING
FCU	FAN COIL UNIT
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
KVA	KILOVOLT AMPERES
KW	KILOWATT
NL	NIGHT LIGHT ON UNSWITCHED CIRCUIT
OL	OVERLOAD
PROVIDE	FURNISH, INSTALL AND CONNECT
RTU	ROOF TOP UNIT
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
WC	WATER COOLER
WG	WIRE GUARD
WP	WEATHERPROOF

GENERAL FIRE ALARM NOTES:

A. MANUAL PULL STATIONS AT EXIT DOORS SHALL BE INSTALLED WITHIN 5'-0" OF THE DOOR. OPERABLE PART OF EACH MANUAL PULL STATION SHALL BE INSTALLED BETWEEN 42" AND 48" ABOVE FINISHED FLOOR TO MEET ADA REQUIREMENTS.
B. FIRE RATED DOORS WITH HOLDS SHALL RELEASE UPON AN ALARM FROM SMOKE DETECTOR ON EITHER SIDE OF THE DOOR, OR OTHER ALARM INITIATION.
C. SMOKE DETECTOR SHALL BE INSTALLED 5'-0" OR LESS IN FRONT OF FACP AND CENTER OF THE DOORS WHICH CONTAIN HOLDERS.
D. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3'-0" OF AN AIR DIFFUSER OR RETURN GRILL.
E. SMOKE DETECTORS IN ELEVATOR LOBBIES MUST BE INSTALLED WITHIN 21'-0" OF THE CENTERLINE OF THE ELEVATOR.
F. FIRE ALARM DESIGN SHALL CONTAIN NO MORE THAN 70% LOAD ON EACH PANEL AND LOOP LEAVING 30% AVAILABLE FOR FUTURE CAPACITY PER CIRCUIT.
G. CONTRACTOR MAY UTILIZE OPEN FIRE ALARM CABLING OR ARMORED FIRE ALARM CABLING WHEN INSTALLING CONDUCTORS ABOVE ACCESSIBLE CEILINGS AND BEHIND ACCESSIBLE CHASES. FIRE ALARM CABLING SHALL BE INSTALLED IN RACEWAY ABOVE INACCESSIBLE CEILINGS AND BEHIND INACCESSIBLE CHASES AND WALLS. IN ALL OPEN PUBLIC SPACES, FIRE ALARM CABLING SHALL BE INSTALLED IN RACEWAY (SURFACE RACEWAY) AND RACEWAY SHALL BE PAINTED TO MATCH WALLS/CEILING SURFACE ON WHICH THE RACEWAY IS INSTALLED.
H. OPEN FIRE ALARM CABLING NOT INSTALLED IN RACEWAY SHALL BE PLENUM RATED, NO EXCEPTION.
I. CONTRACTOR SHALL ADJUST DEVICE LOCATIONS BY UP TO 30" FROM WHAT IS SHOWN TO AVOID OBSTRUCTIONS.
J. CONTRACTOR SHALL PROVIDE "SURFACE MOUNT ADAPTER SKIRTS" FOR ALL SURFACE MOUNTED DEVICES. "SKIRTS" ARE NOT REQUIRED FOR SURFACE MOUNTED DEVICES INSTALLED IN MECHANICAL OR ELECTRICAL ROOMS.

GENERAL ELECTRICAL NOTES:

A. ALL WORK SHOWN IS NEW AND BY THE ELECTRICAL TRADES, UNLESS OTHERWISE NOTED.
B. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND NATIONAL FIRE ALARM CODE (NFPA 72) AS ADOPTED BY THE STATE INCLUDING ALL AMENDMENTS.
C. THIS CONTRACTOR SHALL REVIEW THE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS AND INCLUDE WORK FROM OTHER DIVISIONS THAT AFFECT HIS WORK IN HIS BID.
D. CONTRACTOR SHALL VISIT PROJECT SITE, PRIOR TO BIDDING, TO REVIEW EXISTING ELECTRICAL, SECURITY, AND FIRE ALARM CONDITIONS. NOT ALL EXISTING ELECTRICAL EQUIPMENT, WIRING DEVICES AND RACEWAYS ARE SHOWN.
E. EACH CONTRACTOR SHALL FIELD VERIFY ALL EXISTING APPLICABLE CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS, AS PERTAINS TO THE INTENT OF THESE DRAWINGS. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER AND DESIGNER ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY OR RELATED TO SUCH DISCREPANCY. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH OR CAUSED BY THAT CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
F. COORDINATE ALL WORK WITH OWNER, SO AS TO NOT CAUSE DISRUPTION OF OWNER'S STAFF.
G. WORK IN OFFICES, LABS, ETC., WILL REQUIRE THE PROTECTION (COVERING) OF FURNISHINGS AND ELECTRICAL/ELECTRONIC EQUIPMENT. DO NOT USE PLASTIC TO COVER COMPUTERS AND ELECTRONIC EQUIPMENT AT ANY TIME. CLOTH COVERS ARE ACCEPTABLE.
H. POWER, SECURITY, AND FIRE ALARM INTERRUPTIONS MUST BE PROPERLY PURSUED TO REDUCE INCONVENIENCE TO THE NORMAL BUILDING ACTIVITY TO A MINIMUM. ARRANGEMENTS FOR INTERRUPTION OF ELECTRICAL SERVICE TO AREAS MUST BE MADE IN WRITING WITH THE SUPERINTENDENT AND PROJECT MANAGER AT LEAST ONE WEEK BEFORE THE PROPOSED INTERRUPTIONS.
I. DEMOLITION SHALL BE PERFORMED TO MINIMIZE DAMAGE TO ADJACENT RETAINED WORK. WHERE SUCH DAMAGE OCCURS, PATCH, REPAIR OR OTHERWISE RESTORE TO ITS ORIGINAL CONDITION.
J. WHERE DEMOLITION WORK LEAVES HOLES AND DAMAGED SURFACE THAT WILL BE EXPOSED IN FINISHED WORK OR THROUGH A FIRE SEPARATION, THESE HOLES AND DAMAGED SURFACES SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT FINISHED SURFACE.
K. CONTRACTOR SHALL INCLUDE IN HIS BID THE REMOVAL AND PROPER DISPOSAL OF ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED. HOWEVER, THE OWNER HAS THE FIRST RIGHT TO REFUSAL OF ALL EXISTING ELECTRICAL EQUIPMENT.
L. FOR ALL REMOVED OUTLETS, EQUIPMENT, SECURITY, AND FIRE ALARM, REMOVE ALL EXISTING RACEWAY AND WIRING TO SOURCE OR FIRST ACTIVE TO REMAIN JUNCTION BOX.
M. MAINTAIN SERVICE CONTINUITY TO ALL EXISTING LOADS THAT ARE TO REMAIN BY MODIFYING AND/OR EXTENDING CONDUIT AND WIRING AS REQUIRED. FIELD VERIFICATION OF EXISTING CONDUIT RUNS AND CIRCUITRY IS TO BE DONE AS REQUIRED. THIS INCLUDES, BUT IS NOT LIMITED TO RECEPTACLES, OVERHEAD POWER DROPS, DISCONNECTS, LIGHTING, AND WIRING TO FUME HOODS AND MECHANICAL EQUIPMENT.
N. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL CUTTING AND PATCHING REQUIRED FOR THE ELECTRICAL, SECURITY, AND FIRE ALARM INSTALLATION SHALL BE PERFORMED BY THE APPROPRIATE TRADE AND PAID FOR BY THIS CONTRACTOR. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARCHITECTURAL DETAILS/NOTES.
O. RELOCATED/REINSTALLED ITEMS SHALL BE CLEANED AND PLACED IN STORAGE UNTIL ITEMS ARE READY TO BE REINSTALLED. IF ITEM IS DAMAGED, IT SHALL BE REPAIRED OR REPLACED WITH NEW ITEM AS APPROVED.
P. ALL FIRESTOPPING SHALL BE PROVIDED UNDER DIVISION 07 OR DIVISION 26, "FIRESTOPPING".
Q. VERIFY EXACT LOCATION OF OUTLETS ABOVE COUNTERS, IN CASEWORK OR EQUIPMENT PRIOR TO ROUGH IN.
R. COORDINATE INSTALLATION OF DEVICES AND WIRING WITH LIGHTING, HVAC, PIPING, AND STRUCTURAL MEMBERS.
S. EMERGENCY LIGHTING FIXTURES - TEST SWITCH AND INDICATOR LAMP ARE TO BE LOCATED IN A READILY VISIBLE LOCATION. IF INSTALLATION INSTRUCTIONS BY MANUFACTURER DO NOT ALLOW FOR THIS. MOUNT SWITCH AND LAMP IN SINGLE GANG BOX FLUSH MOUNTED IN CEILING TILE ADJACENT TO FIXTURE. BODINE SELLS A COVER-PLATE FOR THIS PURPOSE. FLEX CONDUIT CAN BE USED BETWEEN FIXTURE AND BOX.
T. GFCI CIRCUIT SHALL BE INSTALLED SUCH THAT GFCI RECEPTACLE SHALL ONLY TRIP ITSELF AND DOES NOT TRIP OR DISCONNECT POWER ON ANY OTHER RECEPTACLE.
U. LOW-VOLTAGE CONDUIT (NOT INCLUDING TELECOMMUNICATIONS, "T" SERIES DRAWINGS) SHALL NOT CONTAIN MORE THAN 270° IN BENDS BETWEEN FLOOR BOXES, PROJECTOR BOXES, CAMERA BOXES, A/V EQUIPMENT RACKS, FIRE ALARM DEVICE BOXES, FIRE ALARM PANELS, SECURITY DEVICE BOXES, AND SECURITY PANELS. PROVIDE PULL BOXES IN RACEWAYS THAT CONTAIN MORE THAN 270° IN BENDS. PROVIDE A MINIMUM OF ONE (1) PULL BOX FOR EVERY 100 FEET OF RACEWAY.
V. CONTRACTOR SHALL PROVIDE MINIMUM 200 LB TENSION PULL STRING IN ALL EMPTY/FUTURE USE RACEWAYS.
W. ALL CONDUIT ROUTED IN AND THROUGH CONCRETE AND/OR BUILDING STRUCTURAL WALLS SHALL BE RIGID METAL CONDUIT, UNLESS OTHERWISE NOTED.
X. SURFACE RACEWAY USED SHALL BE PAINTED TO MATCH THE WALLS.
Y. WHEN NEW WALL AND FLOOR FINISHES ARE SHOWN, REMOVE ALL COVERPLATES AND REINSTALL AFTER NEW FINISHES HAVE BEEN COMPLETED.
Z. TURN OVER ALL KEYS TO OWNER AT COMPLETION OF PROJECT.
AA. FIRE STOP ALL WALL AND FLOOR PENETRATIONS WHETHER SURFACE IS RATED OR NOT.
BB. DEVICE LOCATIONS AND RACEWAY ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO STARTING CONSTRUCTION.
CC. ALL CIRCUITS SHALL CONSIST OF 3/4"C, 2-#12 & #12 GND UNLESS OTHERWISE NOTED.
DD. ALL DEVICES AND PLATES WITHIN ALL SCOPE AREAS SHALL BE NEW.

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PROFESSIONAL SEAL:

RACHEL COCHRAN — REGISTERED — No. PE11600436 — STATE OF INDIANA — PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	JKW	DJJ

DRAWING TITLE: ELECTRICAL SYMBOLS AND ABBREVIATIONS

SHEET NUMBER: E001

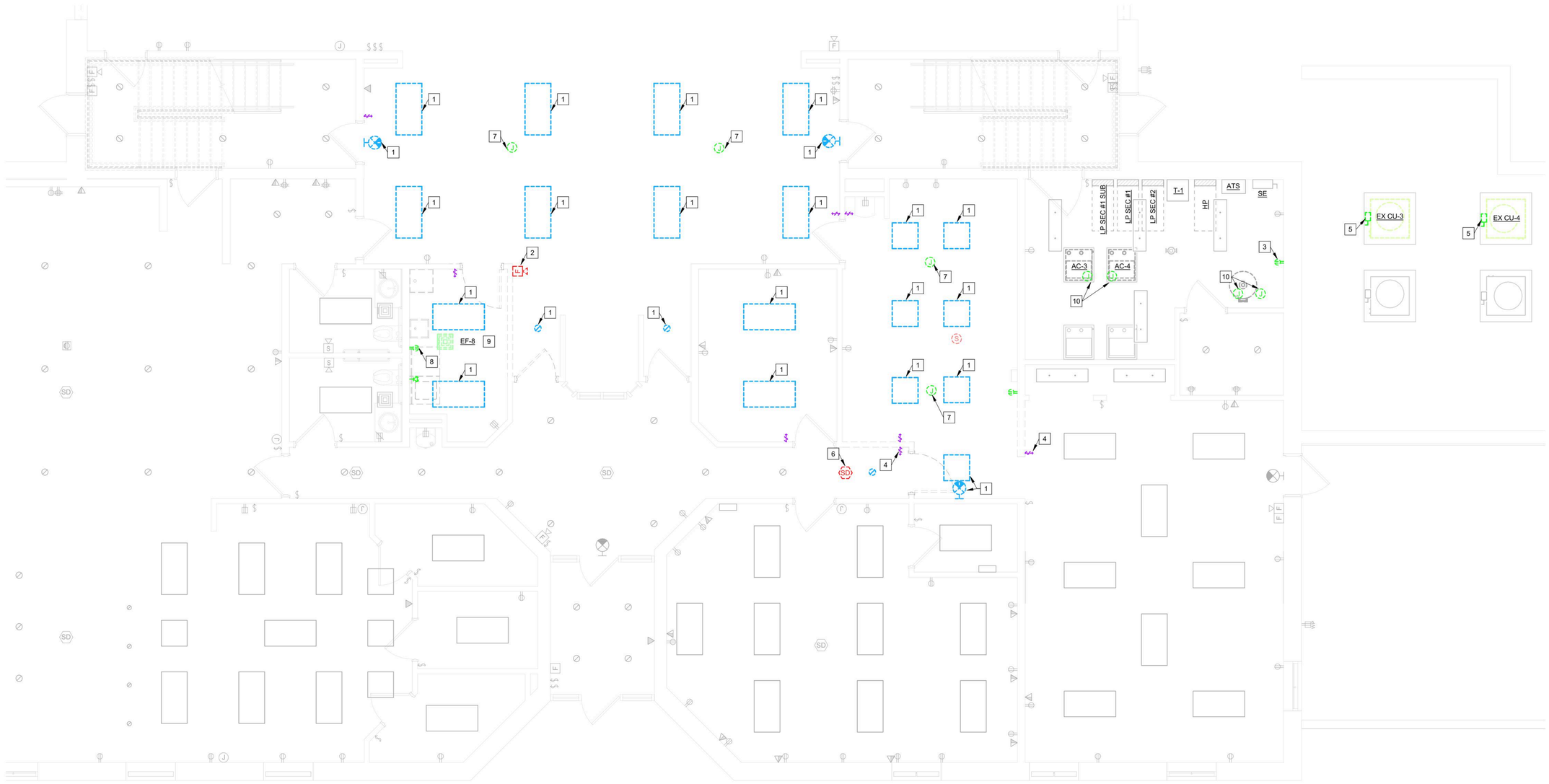
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GENERAL NOTES:

A. REFER TO SHEET E001 FOR ADDITIONAL INFORMATION.
B. ANY CIRCUITS REMOVED DURING DEMOLITION THAT ARE NOT USED DURING NEW WORK SHALL HAVE THEIR PANEL CIRCUIT INDEX IDENTIFICATION UPDATED TO 'SPARE' BY EC.

[#] DEMOLITION NOTES:

1. LIGHTING: DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. EXISTING WIRING SHALL REMAIN FOR EXTENSION TO NEW FIXTURES LOCATION.
2. FA DEVICES: REMOVE EXISTING FIRE ALARM DEVICE FOR REINSTALLATION IN NEW WORK. PROTECT DEVICE DURING DEMOLITION.
3. WATER SOFTENER: DISCONNECT EXISTING WATER SOFTENER. REMOVE EXISTING RECEPTACLE AT THIS LOCATION. EXISTING BACKBOX AND CIRCUIT MAY REMAIN FOR RECONNECTION TO NEW RECEPTACLE IN NEW WORK.
4. LIGHTING CONTROL: REMOVE EXISTING LIGHTING CONTROL AT THIS LOCATION. CONTROL WIRING SHALL REMAIN FOR EXTENSION TO NEW SWITCH IN NEW WORK.
5. CONDENSING UNIT: DISCONNECT EXISTING FEED TO CONDENSING UNIT AND REMOVE COMPLETELY BACK TO SOURCE.
6. EXISTING SMOKE DETECTOR: REMOVE EXISTING SMOKE DETECTOR TO BE REINSTALLED IN NEW WORK. DEVICE SHALL BE PROTECTED AND STORED DURING DEMOLITION.
7. CEILING FAN: DISCONNECT EXISTING CEILING FAN. REMOVE WIRING BACK TO NEAREST EXISTING TO REMAIN JUNCTION BOX. EXISTING CIRCUIT SHALL REMAIN FOR EXTENSION TO NEW FAN LOCATION.
8. DECONTAMINATION RECEPTACLE: DISCONNECT EXISTING RECEPTACLE AND REMOVE WIRING BACK TO NEAREST ACTIVE TO REMAIN JUNCTION BOX. EXISTING CIRCUIT SHALL REMAIN FOR USE IN NEW WORK.
9. EXHAUST FAN: DISCONNECT EXISTING EXHAUST FAN FOR RECONNECTION IN NEW WORK. EXISTING CIRCUIT SHALL REMAIN FOR RECONNECTION TO REINSTALLED FAN IN NEW WORK.
10. MECHANICAL UNIT: DISCONNECT EXISTING UNIT. REMOVE EXISTING CIRCUIT COMPLETELY BACK TO SOURCE.



FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE: FIRST FLOOR ELECTRICAL DEMOLITION FLOOR PLAN

SHEET NUMBER: E101

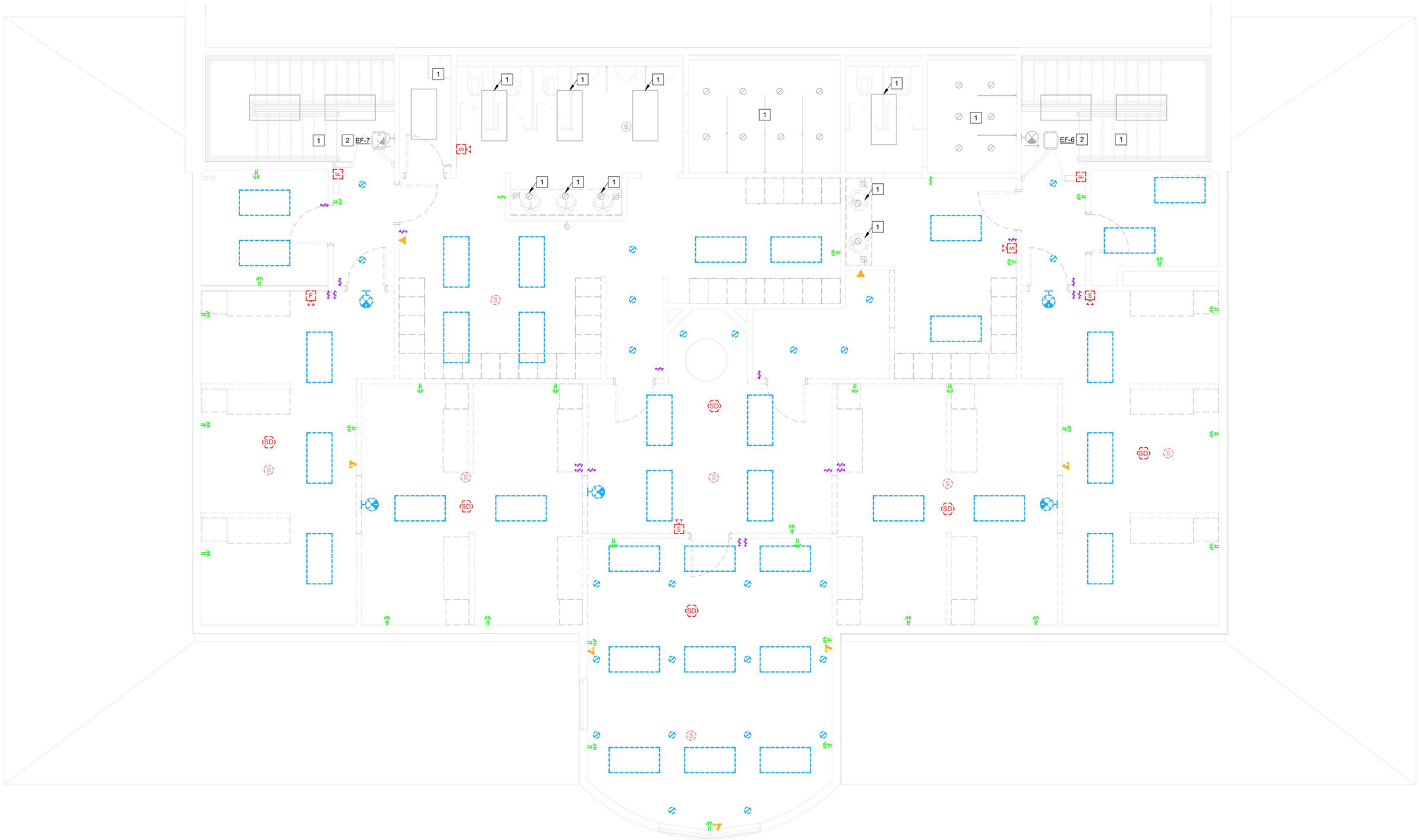
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GENERAL NOTES:

A. REFER TO SHEET E001 FOR ADDITIONAL INFORMATION.
B. EXCEPT WHERE OTHERWISE NOTED OR SHOWN, DISCONNECT POWER TO ALL ELECTRICAL EQUIPMENT AND DEVICES WITHIN PROJECT AREA FOR GENERAL DEMOLITION AND REMOVAL BY THE GC. REMOVE ALL ABANDONED RACEWAYS AND BOXES IN THIS AREA.
C. ANY CIRCUITS REMOVED DURING DEMOLITION THAT ARE NOT USED DURING NEW WORK SHALL HAVE THEIR NAMES UPDATED TO 'SPARE' BY EC.
D. DEVICES WITHIN SCOPE AREA: ALL RECEPTACLES AND ALL DEVICES WITHIN PROJECT AREA SHALL BE NEW AT COMPLETION OF THIS PROJECT. EXISTING ROUGH-INS THAT ARE NEW IN THE SAME LOCATION AS WHERE SHOWN 'NEW' MAY BE RE-USED AS WELL AS BRANCH CIRCUIT WIRING AS LONG AS IT IS IN GOOD CONDITION AND MEETS CODE. NO CIRCUIT LOADINGS SHALL BE GREATER THAN 1140W AS CALCULATED BY THE NEC. ADDITIONALLY, IF ANY CIRCUIT OR DEVICE IS SHOWN HERE WITH LESS LOADING OR INDICATED AS A DEDICATED CIRCUIT, THIS MORE STRINGENT LOADING SHALL BE FOLLOWED.

DEMOLITION NOTES:

1. EXISTING LIGHTING: LIGHTING FIXTURES IN THIS AREA ARE EXISTING TO REMAIN. ENSURE THAT LIGHTING CONTROLS TO FIXTURE SHOWN ARE PROTECTED DURING DEMOLITION. LIGHTING CONTROLS LOCATED WITHIN SCOPE OF WORK THAT CONTROL FIXTURES OUTSIDE OF SCOPE OF WORK SHALL BE PRESERVED AND REINSTALLED AT NEW LOCATION. FIXTURES SHALL BE CLEANED AT COMPLETION OF PROJECT.
2. EXHAUST FAN: DISCONNECT EXISTING EXHAUST FAN FOR RECONNECTION IN NEW WORK. EXISTING CIRCUIT SHALL REMAIN FOR RECONNECTION TO REINSTALLED FAN IN NEW WORK.



SECOND FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE: SECOND FLOOR ELECTRICAL DEMOLITION FLOOR PLAN

SHEET NUMBER: E102

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GENERAL NOTES:

A. SEE SHEET E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
B. ALL LIGHTING FIXTURES SHALL BE CIRCUITED TO ROOM CIRCUIT NUMBER SHOWN UNLESS OTHERWISE NOTED.
C. LIGHTING CIRCUITS SHOWN ARE BASED ON HISTORICAL DOCUMENTS, FIELD NOTES AND GENERAL OBSERVATIONS AND SHOULD BE FIELD VERIFIED BY CONTRACTOR.
D. DIMMING LEVEL: DIMMABLE LIGHTING CONTROLS SHALL DEFAULT TO 50% WHEN TURNED ON.

LOCUTION NOTES:

A. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION DEVICE LAYOUT AND SCOPE. PROVIDE JUNCTION BOX AND CONDUIT STUBBED UP TO ACCESSIBLE CEILING AT LOCATIONS INDICATED.

(#) PLAN NOTES:

1. CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA. EXISTING LIGHTING CIRCUIT INDICATED ON FLOOR PLAN
2. LIGHTING CONTROL: RELOCATE EXISTING LIGHTING CONTROL DEVICE TO NEW LOCATION.
3. CEILING FAN CONTROL: PROVIDE F3 SPEED CONTROL AND REVERSE CEILING FAN CONTROL MOUNTED ADJACENT TO LIGHTING CONTROLS.
4. VACANCY CONTROL: LIGHTING FIXTURES IN THIS AREA SHALL OPERATE VIA VACANCY CONTROL. UPON ENTERING THE SPACE THE LIGHTS SHALL ONLY COME 'ON' AFTER CHANGE OF STATE OF THE SWITCH. LIGHTS SHALL AUTOMATICALLY GO 'OFF' AFTER 30 MINUTES OF VACATING ROOM.
5. POLE AREA OCCUPANCY SENSOR: FIXTURE TO BE CONTROLLED BY OCCUPANCY SENSOR ON SECOND FLOOR FIRE POLE ROOM. SEE SHEET E302 FOR OCCUPANCY SENSOR LOCATION AND SWITCH LEG.
6. CEILING FAN: PROVIDE KICHLER LUCIAN II 52" CEILING FAN. FAN FINISH SHALL BE SELECTED UPON OWNER REVIEW. EXTEND CIRCUIT MADE AVAILABLE DURING DEMOLITION TO NEW CEILING FAN.
7. OCCUPANCY CONTROL: LIGHTING FIXTURES IN THIS AREA SHALL OPERATE VIA OCCUPANCY CONTROL. UPON ENTERING THE SPACE THE LIGHTS SHALL COME 'ON' AND SHOULD GO 'OFF' 30 MINUTES AFTER LEAVING.
8. LOCUTION FIXTURE: LOCUTION FIXTURE TO BE INSTALLED AT THIS LOCATION. LOCATION SHOWN FOR REFERENCE ONLY. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION LIGHTING FIXTURE LAYOUT AND SCOPE.



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

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PROJECT NUMBER: 25-150

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DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE: FIRST FLOOR LIGHTING FLOOR PLAN

SHEET NUMBER: E301

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GENERAL NOTES:

A. SEE SHEET E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
B. ALL LIGHTING FIXTURES SHALL BE CIRCUITED TO ROOM CIRCUIT NUMBER SHOWN UNLESS OTHERWISE NOTED.
C. EXISTING LIGHTING FIXTURES WITHIN SCOPE OF WORK SHALL BE RECIRCUITED TO ROOM TAG CIRCUIT INDICATED ON FLOOR PLAN.
D. EXISTING LOCUTION LIGHTING FIXTURES WITHIN THE SCOPE OF WORK SHALL HAVE THEIR CONTROL WIRING EXTENDED TO NEW LOCUTION CONTROL PANEL.
E. EMERGENCY EGRESS LIGHTING: EMERGENCY EGRESS LIGHTING IS PROVIDED BY NFPA APPROVED 90 MINUTE EMERGENCY BATTERY UNIT TO POWER EM LIGHTING UPON POWER LOSS. BATTERY AND TEST SWITCH LOCATED IN MECHANICAL 031.
F. DIMMING LEVEL: DIMMABLE LIGHTING CONTROLS SHALL DEFAULT TO 50% WHEN TURNED ON.

LOCUTION NOTES:

A. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION DEVICE LAYOUT AND SCOPE. PROVIDE JUNCTION BOX AND CONDUIT STUBBED UP TO ACCESSIBLE CEILING AT LOCATIONS INDICATED.

(#) PLAN NOTES:

1. OCCUPANCY CONTROL: LIGHTING FIXTURES IN THIS AREA SHALL OPERATE VIA OCCUPANCY CONTROL. UPON ENTERING THE SPACE THE LIGHTS SHALL COME 'ON' AND SHOULD GO 'OFF' 30 MINUTES AFTER LEAVING.
2. VACANCY CONTROL: LIGHTING FIXTURES IN THIS AREA SHALL OPERATE VIA VACANCY CONTROL. UPON ENTERING THE SPACE THE LIGHTS SHALL ONLY COME 'ON' AFTER CHANGE OF STATE OF THE SWITCH. LIGHTS SHALL AUTOMATICALLY GO 'OFF' AFTER 30 MINUTES OF VACATING ROOM.
3. LOCUTION FIXTURE: LOCUTION FIXTURE TO BE INSTALLED AT THIS LOCATION. LOCATION SHOWN FOR REFERENCE ONLY. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR LOCUTION LIGHTING FIXTURE LAYOUT AND SCOPE. LOCUTION ROOM CONTROL PANEL INDICATED ON FLOOR PLAN.
4. LOCUTION CONTROL PANEL LOCATION: PANEL SHOWN FOR REFERENCE ONLY. FINAL PANEL LOCATION AND ALL FINAL CONNECTIONS BY LOCUTION CONTRACTOR. REFER TO LOCUTION REFERENCE DRAWINGS INCLUDED IN ARCHITECTURAL SET FOR ADDITIONAL INFORMATION.
5. POLE OCCUPANCY SENSOR: TIE OCCUPANCY SENSOR TO LIGHT BELOW ON FIRST FLOOR FIRE POLE ROOM. SET AUTOMATIC 'OFF' TIME DELAY TO 10 MINUTES. COORDINATE OCCUPANCY SENSOR MOUNTING LOCATION WITH POLE ENTRANCE.
6. LIGHTING INVERTER: MOUNT LIGHTING INVERTER HIGH ON WALL. PROVIDED DEDICATED CIRCUIT FOR INVERTER. CIRCUIT INDICATED ON FLOOR PLAN. PROVIDE EQUIPMENT LABEL AND CIRCUIT ID LABEL. PROVIDE LABEL ON MOMENTARY SWITCH LABELED "TEST OF EGRESS". DEDICATED INVERTER CIRCUIT SHALL SERVE ALL F4 FIXTURES. SEE DETAIL 6 ON SHEET E501 FOR ADDITIONAL INFORMATION.
7. BUNK ROOM SWITCH MOUNTING: SEE DETAIL 9 ON SHEET E501 FOR BUNK ROOM SWITCH MOUNTING ORIENTATION. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



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

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DRAWING TITLE: SECOND FLOOR LIGHTING FLOOR PLAN

SHEET NUMBER: E302

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GENERAL NOTES:

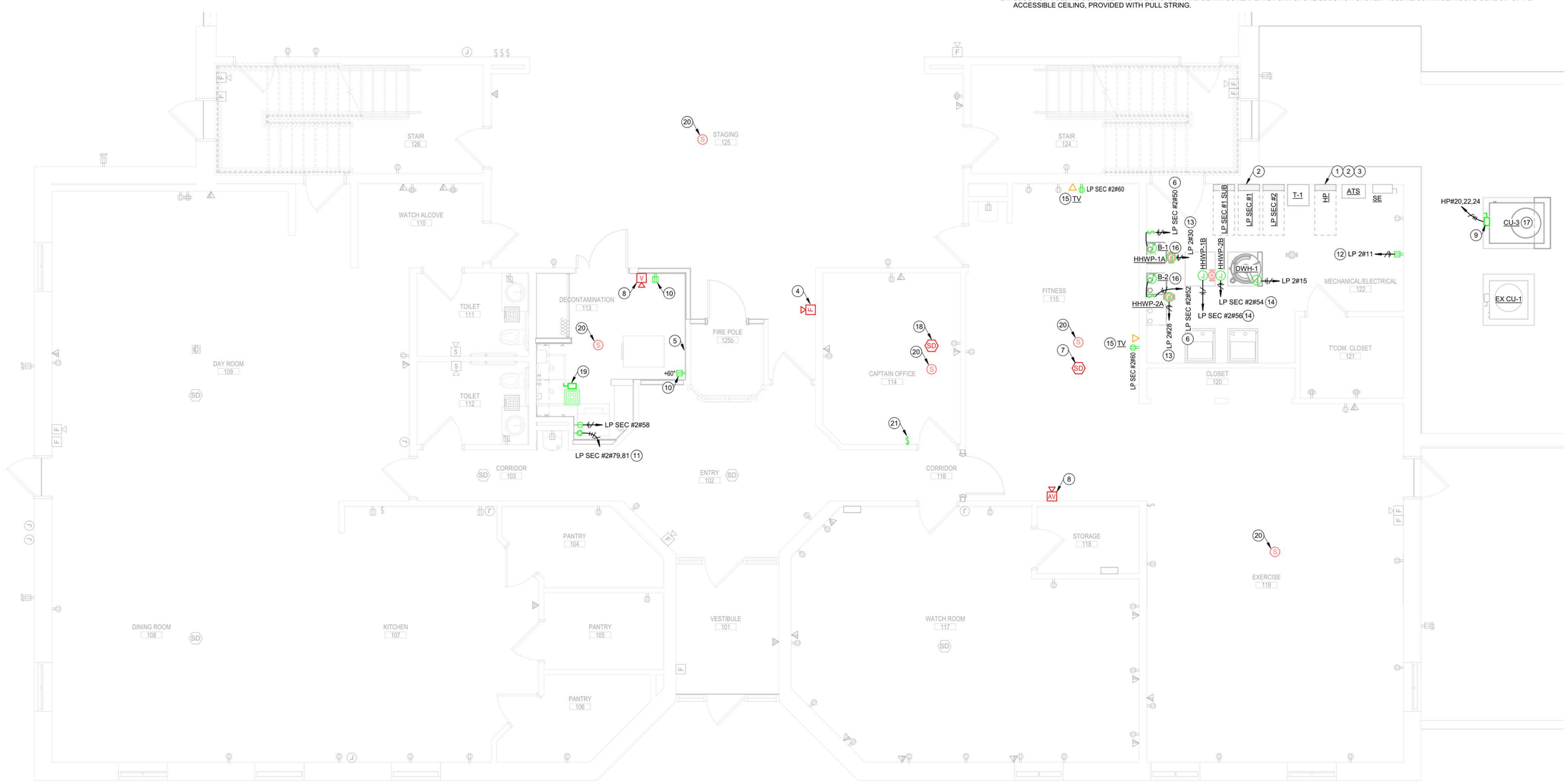
A. SEE SHEET E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

LOCUTION NOTES:

A. REFER TO LOCUTION REFERENCE DRAWINGS INLCUDED IN ARCHITECTURAL SET FOR LOCUTION DEVICE LAYOUT AND SCOPE. PROVIDE JUNCTION BOX AND CONDUIT STUBBED UP TO ACCESSABLE CEILING AT LOCATIONS INDICATED.

(#) PLAN NOTES:

1. TRANSFORMER "T-2" BREAKER: PROVIDE 3P-70A BREAKER TO SERVE NEW TRANSFORMER ON SECOND FLOOR. GE HI-BREAK CIRCUIT BREAKER MODEL THED. TURN OVER EXISTING BREAKERS TO OWNER. REFER TO SHEETS E601 AND E701 FOR ADDITIONAL INFORMATION.
2. PANEL INDEX: PROVIDE NEW TYPEWRITTEN PANEL CARD WITH NEW LOAD NAMES.
3. SUB-PANEL "HP" BREAKER: PROVIDE 3P-40A BREAKER TO SERVE NEW SUB-PANEL ON SECOND FLOOR. GE HI-BREAK CIRCUIT BREAKER MODEL THED. TURN OVER EXISTING BREAKERS TO OWNER. REFER TO SHEETS E601 AND E701 FOR ADDITIONAL INFORMATION.
4. FA DEVICE: REINSTALL EXISTING FIRE ALARM DEVICE AT LOCATION SHOWN. EXTEND EXISTING FIRE ALARM CIRCUIT TO RELOCATED DEVICE.
5. FUTURE EXTRACTOR: PROVIDE 1" CONDUIT WITH PULL STRING FROM ELECTRICAL ROOM TO ABOVE ACCESSIBLE CEILING AT THIS LOCATION FOR FUTURE EXTRACTOR. TERMINATE CONDUIT IN ELECTRICAL ROOM ABOVE PANEL HP. PROVIDE IDENTIFICATION LABELS.
6. BOILER: PROVIDE ELECTRICAL CONNECTION TO NEW BOILER. PROVIDE 20A-1P MOTOR RATED TOGGLE SWITCH WITH LOCK-OUT HASP.
7. SMOKE DETECTOR: REINSTALL EXISTING SMOKE DETECTOR AT THIS LOCATION. EXTEND EXISTING SYSTEM WIRING TO NEW DEVICE LOCATION.
8. FA NOTIFICATION DEVICE (ALTERNATE) : HORN STROBE MODEL NUMBER P2RLED BY SYSTEM SENSOR. STROBE MODEL NUMBER SRLED BY SYSTEM SENSOR. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
9. CONDENSING UNIT: PROVIDE 30A FUSIBLE NEMA 3R DISCONNECT TO SERVE NEW UNIT. MOUNT DISCONNECT ON UNISTRUT STAND. FUSES SHALL BE SIZED ACCORDING TO APPROVED MECHANICAL SUBMITTAL. PROVIDE (3) #10 AWG, #12GND - .75"C.
10. DECONTAMINATION RECEPTACLE: EXTEND EXISTING CIRCUIT IN THIS AREA MADE AVAILABLE DURING DEMOLITION TO NEW RECEPTACLE.
11. WASHER / DRYER: PROVIDE NEMA 14-30 RECEPTACLE FOR STACKABLE WASHER AND DRYER AT THIS LOCATION.
12. WATER SOFTENER: PROVIDE GFCI RECEPTACLE FOR NEW WATER SOFTENER. PROVIDE "SO" CORD AND PLUG ASSEMBLY FOR WATER SOFTENER.
13. HHWP-1A / HHWP-2A: PROVIDE ELECTRICAL CONNECTION TO NEW PUMP. DISCONNECT PROVIDED BY MANUFACTURER.
14. HHWP-1B / HHWP-2B: PROVIDE ELECTRICAL CONNECTION TO NEW PUMP. DISCONNECT PROVIDED BY MANUFACTURER. PUMPS ARE STACKED VERTICALLY.
15. TV BOX: BACKBOX SHALL BE INSTALLED BY EC. FINAL LOOK TO BE FLUSH WITH WALL. TV TO BE MOUNTED AT 5'-0" AFF. COORDINATE EXACT TV LOCATION WITH ARCHITECT PRIOR TO ROUGH IN. PROVIDE DEVICE ROUGH IN AND CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING. EXISTING IT ROOM LOCATED IN MECHANICAL/ELECTRICAL 122. DATA JACK CABLE AND DEVICE FACE PLATE PROVIDED BY DIV 27. REFER TO TELECOM DRAWINGS AND DETAIL 5 ON SHEET E501 FOR ADDITIONAL INFORMATION.
16. BOILER AND HEATING WATER PUMP CONTROL WIRING: CONTROL WIRING SHALL BE PROVIDED BY EC TO THE BOILERS, PRIMARY PUMPS, AND SECONDARY PUMPS. REFER TO HEATING HOT WATER SCHEMATIC & CONTROLS DIAGRAM ON SHEET ME702 FOR ADDITIONAL INFORMATION, INCLUDING THE EC SCOPE.
17. CU-3 CONTROL WIRING: CONTROL WIRING SHALL BE PROVIDED BY EC. PROVIDE CONTROL WIRING BETWEEN AC-3 CONTROL IN MECHANICAL 031 TO CU-3. PROVIDE CONTROL WIRING FROM AC-3 CONTROLLER TO DUCT STATIC PRESSURE SENSOR. REFER TO DIAGRAM ON SHEET ME701 FOR ADDITIONAL INFORMATION. AC-3 LOCATED IN SECOND FLOOR MECHANICAL ROOM.
18. SMOKE DETECTOR (ALTERNATE): HONEYWELL SMOKE DETECTOR MODEL NUMBER 5193SD. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
19. EXHAUST FAN CONTROL. EXISTING EXHAUST FAN SHALL BE REWIRED TO RUN CONTINUOUSLY. PROVIDE BLANK COVER PLATE WITH EQUIPMENT IDENTIFICATION TAG ON EXISTING SWITCH BACKBOX. PROVIDE NEW UNIT MOUNTED DISCONNECT SWITCH.
20. SPEAKERS: NEW SPEAKERS PROVIDED BY NEW LOCUTION SYSTEM AND ARE SHOWN FOR REFERENCE ONLY. PROVIDE DEVICE TESTING FOLLOWING INSTALLATION.
21. LOCUTION VOLUME CONTROL: PROVIDE BACKBOX AND BLANK COVERPLATE FOR FUTURE LOCUTION SYSTEM VOLUME CONTROL. ROUTE CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING.



FIRST FLOOR POWER AND SYSTEMS PLAN

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

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DRAWING TITLE: FIRST FLOOR POWER AND SYSTEMS FLOOR PLAN

SHEET NUMBER: E311

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GENERAL NOTES:

A. SEE SHEET E001 FOR SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

LOCUTION NOTES:

A. REFER TO LOCUTION REFERENCE DRAWINGS INLCUDED IN ARCHITECTURAL SET FOR LOCUTION DEVICE LAYOUT AND SCOPE. PROVIDE JUNCTION BOX AND CONDUIT STUBBED UP TO ACCESSABLE CEILING AT LOCATIONS INDICATED.

(#) PLAN NOTES:

1. SOUNDER BASE SMOKE DETECTOR (ALTERNATE): LOW FREQUENCY HORN STROBE MODEL NUMBER PC2RLED-LF BY SYSTEM SENSOR. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
2. TV BOX: BACKBOX SHALL BE INSTALLED BY EC. BOX SHALL BE FLUSH WITH WALL. TV TO BE MOUNTED AT 4'-0" AFF. COORDINATE EXACT TV BACK BOX LOCATION WITH ARCHITECT PRIOR TO ROUGH IN. SEE PLAN NOTE 9. REFER TO TELECOM DRAWINGS AND DETAIL 5 ON SHEET E501 FOR ADDITIONAL INFORMATION.
3. LOCUTION CONTROL PANEL: PROVIDE CIRCUIT INDICATED ON PLAN FOR CONNECTION TO LOCUTION CONTROL PANEL. CONTROL PANEL AND SYSTEM INTEGRATION BY LOCUTION CONTRACTOR.
4. WAP: DEVICE SHOWN FOR REFERENCE ONLY. REFER TO LOW VOLTAGE DRAWINGS FOR FULL SCOPE.
5. SPEAKERS: NEW SPEAKERS PROVIDED BY NEW LOCUTION SYSTEM AND ARE SHOWN FOR REFERENCE ONLY. PROVIDE DEVICE TESTING FOLLOWING INSTALLATION.
6. EXHAUST FAN CONTROL. EXISTING EXHAUST FAN SHALL BE REWIRED TO RUN CONTINUOUSLY. PROVIDE BLANK COVER PLATE WITH EQUIPMENT IDENTIFICATION TAG ON EXISTING SWITCH BACKBOX. PROVIDE NEW UNIT MOUNTED DISCONNECT SWITCH.
7. ACCESS CONTROL: PROVIDE DEVICE ROUGH IN AND CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING. REFER TO TELECOM DRAWINGS FOR ADDITIONAL INFORMATION.
8. AC-3: PROVIDE 30A FUSED DISCONNECT TO SERVE NEW AHU. PROVIDE FUSES PER APPROVED MECHANICAL SUBMITTALS. PROVIDE (3) #10 AWG, #12GND - .75"C.
9. DATA ROUGH IN: PROVIDE DEVICE ROUGH IN AND CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING. EXISTING IT ROOM LOCATED IN MECHANICAL/ELECTRICAL 122. DATA JACK CABLE AND DEVICE FACE PLATE PROVIDED BY DIV 27. REFER TO TELECOM DRAWINGS FOR ADDITIONAL INFORMATION.
10. NAC PANEL (ALTERNATE): PROVIDE NEW NAC PANEL TO SERVE ALL NOTIFICATION DEVICES ON THIS FLOOR. CONTRACTOR SHALL ENSURE EXISTING AND NEW PANEL DEVICES ARE NOT OVERLOADING PANEL CAPACITY. NAC POWER SUPPLY MODEL NUMBER FL-PS6 BY HONEYWELL. PROVIDE DEDICATED CIRCUIT WITH RED LOCKABLE BREAKER. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
11. MECHANICAL VAV POWER SUPPLY: PROVIDE SIMPLEX RECEPTACLE FOR TERMINAL UNIT POWER SUPPLY LOCATED HIGH ON WALL. PROVIDE TERMINAL UNIT POWER SUPPLY DEVICE LABEL. PROVIDE AND CONNECT 'SO' CORD AND PLUG TO TRANSFORMER. LEAVE ONLY ENOUGH SLACK TO COMFORTABLY REACH OUTLET. PROVIDE DEDICATED 120V / 20A CIRCUIT TO SIMPLEX RECEPTACLE ADJACENT TO UNIT. REFER TO WIRING DIAGRAM ON SHEET E701 AND VAV TERMINAL UNIT CONTROL DIAGRAM ON ME701 FOR EC CONTROL WIRING SCOPE OF WORK. REFER TO SHEET M312 FOR VAV AND THERMOSTAT LOCATIONS.
12. DRYER: PROVIDE NEMA 14-30 RECEPTACLE FOR DRYER AT THIS LOCATION.
13. NL RECEPTACLE: PROVIDE GFCI RECEPTACLE WITH INTEGRAL NIGHT LIGHT AT THIS LOCATION.
14. FA NOTIFICATION DEVICE (ALTERNATE) : HORN STROBE MODEL NUMBER P2RLED BY SYSTEM SENSOR. STROBE MODEL NUMBER SRLED BY SYSTEM SENSOR. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
15. FA PULL STATION (ALTERNATE): HONEYWELL PULL STATION MODEL NUMBER 5140MPS-1. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
16. SMOKE DETECTOR (ALTERNATE): HONEYWELL SMOKE DETECTOR MODEL NUMBER 5193SD. REFER TO FA DIAGRAM ON SHEET E701 FOR ADDITIONAL INFORMATION.
17. LOCUTION VOLUME CONTROL: PROVIDE BACKBOX AND BLANK COVERPLATE FOR FUTURE LOCUTION SYSTEM VOLUME CONTROL. ROUTE CONDUIT UP TO ACCESSIBLE CEILING, PROVIDED WITH PULL STRING.
18. BUNK ROOM SWITCH MOUNTING: SEE DETAIL 9 ON SHEET E501 FOR BUNK ROOM SWITCH MOUNTING ORIENTATION. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
19. AIR HANDLER CONTROL WIRING: FIELD INSTALL CONTROL WIRING SHALL BE PROVIDED BY EC. PROVIDE CONTROL WIRING BETWEEN INDOOR AIR HANDLER AND OUTDOOR CONDENSING UNIT. PROVIDE CONTROL WIRING FROM AIR HANDLER CONTROLLER TO DUCT STATIC PRESSURE SENSOR. REFER TO AHU-3 AIR HANDLER FLOW/CONTROL DIAGRAM ON SHEET ME701 FOR ADDITIONAL INFORMATION.



SECOND FLOOR POWER AND SYSTEMS PLAN

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

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Carmel Fire Station No. 46
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Carmel Fire Department
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PROFESSIONAL SEAL:

RACHEL COCHRAN
REGISTERED
No. PE11600436
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	JKW	DJJ

DRAWING TITLE: SECOND FLOOR POWER AND SYSTEMS FLOOR PLAN

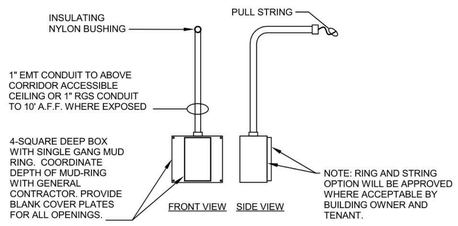
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Autodesk Docs://250060 - Carmel Fire Station 42&46\25-150_Carmel Fire Station 46_MEP2024.rvt
8/14/2026 9:42:48 AM

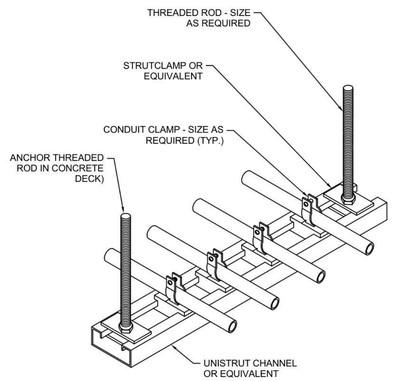


NOTES:
A. DEDICATED CIRCUIT TO PROVIDE EM EGRESS POWER TO ALL F4 FIXTURES. LIGHTS SHALL COME ON AUTOMATICALLY WITH AMBIENT LIGHT LEVELS IN THE AREA FALL BELOW 5 FC. IN THE EVENT OF A POWER OUTAGE, THE LIGHTS SHALL COME ON TO FULL BRIGHTNESS FOR A MINIMUM OF 90 MINUTES.
B. PROVIDE DEVICE IDENTIFICATION LABEL "TEST OF EGRESS LIGHTS" FOR MOMENTARY TOGGLE SWITCH.
C. PROVIDE INVERTER IDENTIFICATION LABEL AND CIRCUIT IDENTIFICATION LABEL.

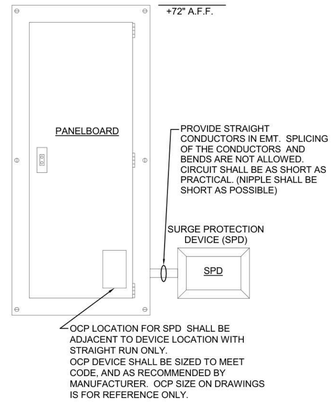
6 LIGHTING INVERTER DETAIL
SCALE: NONE



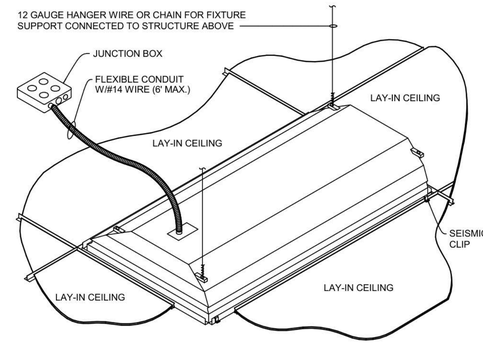
8 BOX ROUGH-IN DETAIL
SCALE: NONE



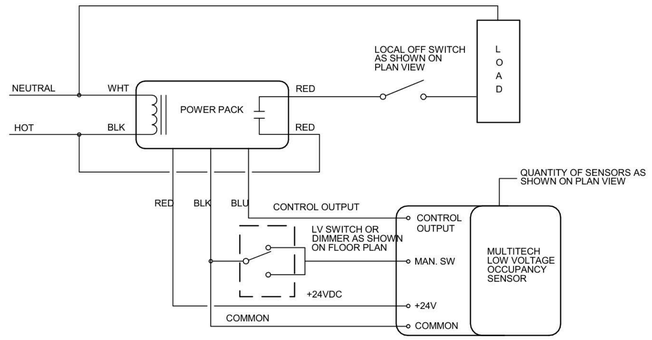
7 CONDUIT SUPPORT DETAIL - 2 IN AND SMALLER
SCALE: NONE



4 SURGE PROTECTION DEVICE
SCALE: NONE



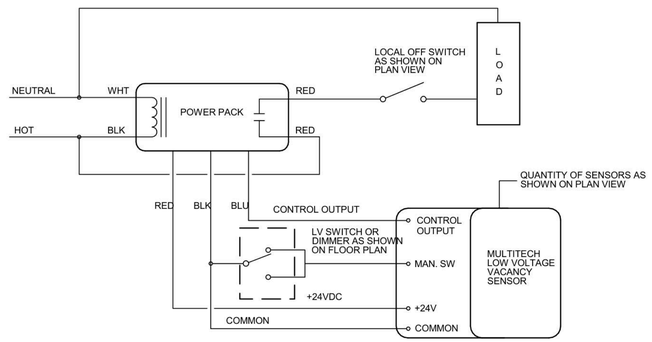
1 LAY-IN FIXTURE
SCALE: 12" = 1'-0"



SEQUENCE OF OPERATION:

1. LIGHTS SHALL TURN ON AUTOMATTICALLY UPON ENTERING SPACE. SWITCH SHALL TURN ON/OFF LIGHTS WITH MANUAL OVERRIDE. SENSOR SHALL TURN OFF LIGHTS AFTER 30 MIN OF INACTIVITY.

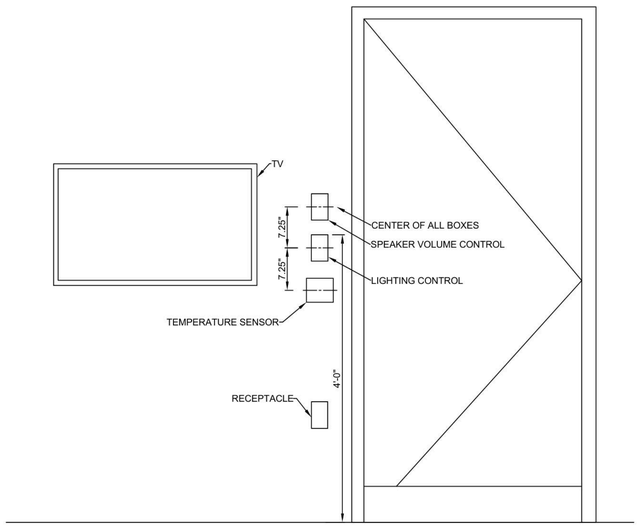
2 OCCUPANCY CONTROL WIRING DETAIL
SCALE: NONE



SEQUENCE OF OPERATION:

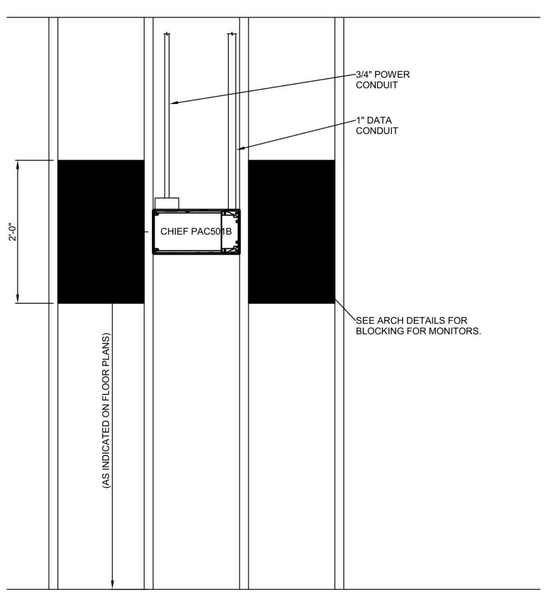
1. LIGHTS SHALL TURN ON ONLY UPON CHANGE OF SWITCH STATE. SENSOR SHALL TURN OFF LIGHTS AFTER 30 MIN OF INACTIVITY.

3 VACANCY CONTROL WIRING DETAIL
SCALE: NONE



NOTES:
A. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DEVICE LOCATIONS.

9 BUNK ROOM DEVICE ELEVATION DETAIL
SCALE: NONE



NOTES:
A. CHIEF MODEL # PAC501B IS THE BASIS OF DESIGN. MATCH COLOR OF WALL BOX COVER WITH DEVICE FACEPLATES IN DIV 26.

5 TV WALL BOX DETAIL
SCALE: NONE

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PROFESSIONAL SEAL:
RACHEL COCHRAN REGISTERED No. PE11600436 STATE OF INDIANA PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	JKW	DJJ

DRAWING TITLE: ELECTRICAL DETAILS

SHEET NUMBER: E501

Autodesk Docs://250060 - Carmel Fire Station 42&46/25-150_Carmel Fire Station 46_MEP2024.rvt
8/14/2026 9:42:48 AM

PANELBOARD SCHEDULE

Branch Panel Name:	LP 2		**New/Exist:**	NEW		**Location:**	MECHANICAL 031			**Project Name:**	Carmel Fire Station No. 46						
SPD:	YES		**Main:**	MCB		**Mounting:**	Surface			**Project No.**	25-150						
Voltage	208Y/120V		**Amp:**	100 A		**Kaic Rating:**	10KAIC			**Date**	08/14/26						
Feed From:	T-2		**Enclosure:**	Type 1		**Feeder:**	SEE ONE LINE				Applied Engineering Services (317) 810-4141						

Ckt	Load Name	Pole	Rating	Type	Load Class	A		B		C		Load Class	Type	Rating	Pole	Load Name	Ckt
1	RECEPT ROOMS 007, 008	1	20 A		Receptacle	1.08	0.54					Receptacle		20 A	1	RECEPT ROOMS 033, 029	2
3	RECEPT ROOMS 006, 033	1	20 A		Receptacle			1.08	1.08			Receptacle		20 A	1	RECEPT QUIET ROOM 030	4
5	RECEPT ROOMS 010, 011	1	20 A		Receptacle					1.08	1.08	Receptacle		20 A	1	RECEPT ROOMS 005, 004	6
7	RECEPT ROOMS 010	1	20 A		Receptacle	1.08	0.36					Receptacle		20 A	1	RECEPT ROOMS 041, 028, 038, 035	8
9	RECEPT ROOMS 001, 026, 033	1	20 A		Receptacle			0.72	1.08			Receptacle		20 A	1	RECEPT ROOMS 002, 003	10
11	WATER SOFTENER	1	20 A		Receptacle					0.18	1.00	Receptacle		20 A	1	LOCUTION PANEL CORRIDOR 033	12
13	RECEPT ROOMS 001, 002	1	20 A		Receptacle	1.08	0.00					Power		20 A	1	NAC PANEL MECHANICAL 031	14
15	DWH-1	1	20 A		Receptacle			0.50	0.18			Power;...		20 A	1	VAV POWER-1	16
17	DRYER LAUNDRY 026	2	30 A		Receptacle					1.80	0.18	Power;...		20 A	1	VAV POWER-2	18
19						1.80	0.18					Power;...		20 A	1	VAV POWER-3	20
21	DRYER LAUNDRY 026	2	30 A		Receptacle			1.80	1.80			Receptacle		20 A	1	WASHER LAUNDRY 026	22
23										1.80	1.80	Receptacle		20 A	1	WASHER LAUNDRY 026	24
25	DRYER LAUNDRY 026	2	30 A		Receptacle	1.80	1.80					Receptacle		20 A	1	WASHER LAUNDRY 026	26
27								1.80	0.86			Other		20 A	1	HHWP-1A MECHANICAL/ELECTRICAL 122	28
29	FRIDGE, RECEPT MOTHER'S ROOM 029	1	20 A		Receptacle					0.36	0.86	Other		20 A	1	HHWP-2A MECHANICAL/ELECTRICAL 122	30
31	RECEPT ROOMS 028, 033	1	20 A		Receptacle	0.54	0.00					--		20 A	1	Spare	32
33	Spare	1	20 A		--			0.00	0.00			--		20 A	1	Spare	34
35	Spare	1	20 A		--					0.00	0.00	--		20 A	1	Spare	36
37	Space	1	--		--	--	--					--		--	1	Space	38
39	Space	1	--		--			--	--			--		--	1	Space	40
41	Space	1	--		--					--	--	--		--	1	Space	42
						10.26 kVA		**10.9 kVA**		**10.1 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)				Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)	29.58	NEC	19.79	Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	1.73	0.80	1.38		
Total Load (KVA)	31.31		21.17		

PANELBOARD SCHEDULE

Branch Panel Name:	HP		**New/Exist:**	EXIST		**Location:**	MECHANICAL/ELECTRICAL 122			**Project Name:**	Carmel Fire Station No. 46						
SPD:	NO		**Main:**	MLO		**Mounting:**	Surface			**Project No.**	25-150						
Voltage	480Y/277V		**Amp:**	400 A		**Kaic Rating:**	25KAIC			**Date**	08/14/26						
Feed From:	SEE ONE-LINE		**Enclosure:**	Type 1		**Feeder:**	SEE ONE LINE				Applied Engineering Services (317) 810-4141						

Ckt	Load Name	Pole	Rating	Type	Load Class	A (KVA)		B (KVA)		C (KVA)		Load Class	Type	Rating	Pole	Load Name	Ckt
1	EX. LIGHTING	1	20 A		--	0.00	0.00										2
3	EX. LIGHTING	1	20 A		Lighting			0.36	0.00			--		100 A	3	EX. TRANSFORMER (T-1)	4
5	EX. LIGHTING	1	20 A		Lighting					0.58	0.00						6
7	EX. LIGHTING	1	20 A		--	0.00	0.00										8
9	EX. LIGHTING	1	20 A		--			0.00	0.00			--		20 A	3	EX. CONDENSING UNIT-CU1	10
11	EX. LIGHTING	1	20 A		--					0.00	0.00						12
13	EX. LIGHTING	1	20 A		--	0.00	0.00										14
15	**Spare**	1	20 A		--			0.00	0.00			--		20 A	3	EX. CONDENSING UNIT-CU2	16
17	**Spare**	1	20 A		--					0.00	0.00						18
19	EX. SPARE	1	20 A		--	0.00	4.66										20
21	EX. SPARE	1	20 A		--			0.00	4.66			Other		25 A	3	**CU-3**	22
23	EX. SPARE	1	20 A		--					0.00	4.66						24
25	EX. SPARE	1	20 A		--	0.00	0.00										26
27	EX. SPARE	1	20 A		--			0.00	0.00			--		20 A	3	**SPARE (FUTURE EXTRACTOR)**	28
29	EX. SPARE	1	20 A		--					0.00	0.00						30
31	EX. SPARE	1	20 A		--	0.00	0.00										32
33	EX. SPARE	1	20 A		--			0.00	0.00			--		20 A	3	EX. EXHAUST FANS - APPARATUS	34
35	EX. SPARE	1	20 A		--					0.00	0.00						36
37						2.72	0.00										38
39	**HP 2**	3	40 A		Other; Lighting; Spare			2.57	0.00			--		70 A	3	**TRANSFORMER (T-2)**	40
41										1.79	0.00						42
						7.37 kVA		**7.6 kVA**		**7.0 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)	2.73	1.00	2.73	Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)		NEC		Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	19.25	0.80	15.40		
Total Load (KVA)	21.98		18.13		

PANELBOARD SCHEDULE

Branch Panel Name:	HP 2		**New/Exist:**	NEW		**Location:**	MECHANICAL 031			**Project Name:**	Carmel Fire Station No. 46						
SPD:	YES		**Main:**	MCB		**Mounting:**	Surface			**Project No.**	25-150						
Voltage	480Y/277V		**Amp:**	40 A		**Kaic Rating:**	25 KAIC			**Date**	08/14/26						
Feed From:	HP		**Enclosure:**	Type 1		**Feeder:**	SEE ONE LINE				Applied Engineering Services (317) 810-4141						

Ckt	Load Name	Pole	Rating	Type	Load Class	A (KVA)		B (KVA)		C (KVA)		Load Class	Type	Rating	Pole	Load Name	Ckt
1						1.76	0.00										2
3	ACC-3	3	15 A		Other			1.76	0.00			--		20 A	3	Spare	4
5										1.76	0.00						6
7	LIGHTING COORIDOR, RESTROOMS	1	20 A		Lighting	0.95	0.00										8
9	LIGHTING SLEEPING ROOMS	1	20 A		Lighting			0.80	0.00			--		20 A	3	Spare	10
11	LIGHTING INVERTER MECHANICAL 031	1	20 A		Lighting					0.03	0.00						12
13	Spare	1	20 A		--	0.00	0.00					--		20 A	1	Spare	14
15	Spare	1	20 A		--			0.00	0.00			--		20 A	1	Spare	16
17	Spare	1	20 A		--					0.00	0.00	--		20 A	1	Spare	18
19	Spare	1	20 A		--	0.00	0.00					--		20 A	1	Spare	20
21	Spare	1	20 A		--			0.00	0.00			--		20 A	1	Spare	22
23	Space	1	--		--					--	--	--		--	1	Space	24
25	Space	1	--		--	--	--					--		--	1	Space	26
27	Space	1	--		--			--	--			--		--	1	Space	28
29	Space	1	--		--					--	--	--		--	1	Space	30
						2.72 kVA		**2.6 kVA**		**1.8 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)	1.78	1.00	1.78	Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)		NEC		Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	5.29	0.80	4.23		
Total Load (KVA)	7.07		6.01		

PANELBOARD SCHEDULE

Branch Panel Name:	LP SEC #2		**New/Exist:**	EXIST		**Location:**	MECHANICAL/ELECTRICAL 122			**Project Name:**	Carmel Fire Station No. 46						
SPD:	NO		**Main:**	MCB		**Mounting:**	Surface			**Project No.**	25-150						
Voltage	208Y/120V		**Amp:**	225 A		**Kaic Rating:**	10KAIC			**Date**	08/14/26						
Feed From:	LP SEC #1		**Enclosure:**	Type 1		**Feeder:**	SEE ONE LINE				Applied Engineering Services (317) 810-4141						

Ckt	Load Name	Pole	Rating	Type	Load Class	A (KVA)		B (KVA)		C (KVA)		Load Class	Type	Rating	Pole	Load Name	Ckt
43	EX. RECEPTACLES	1	20 A		--	0.00	0.00					--		20 A	1	EX. RECEPTACLES	44
45	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	1	EX. RECEPTACLES	46
47	EX. CEILING PADDLE FANS	1	20 A		--					0.00	0.00	--		20 A	1	EX. RECEPTACLES	48
49	EX. CEILING PADDLE FANS	1	20 A		--	0.00	1.44					Other		20 A	1	**B-1**	50
51	EX. CEILING PADDLE FANS	1	20 A		--			0.00	1.44			Other		20 A	1	**B-2**	52
53	EX. EXHAUST FANS	1	20 A		--					0.00	0.53	Other		20 A	1	**HHWP-2B**	54
55	EX. RECEPTACLES	1	20 A		--	0.00	0.53					Other		20 A	1	**HHWP-1B**	56
57	EX. RECEPTACLES	1	20 A		--			0.00	0.18			Receptacle		20 A	1	**WASHER DECONTAMINATION 113**	58
59	EX. RECEPTACLES	1	20 A		--					0.00	0.36	Receptacle		20 A	1	**TV FITNESS 115**	60
61	**EX. SPARE**	1	20 A		--	0.00	0.00					--		20 A	1	EX. GENERATOR ENGINE HTR.	62
63	EX. RECEPTACLES	1	20 A		--			0.00	0.00			--		20 A	2	EX. AIR COMPRESSOR	64
65	EX. RECEPTACLES	1	20 A		--					0.00	0.00						66
67	EX. DISH WASHER	1	20 A		--	0.00	0.00					--		20 A	1	EX. KITCHEN HOOD	68
69	EX. GARBAGE DISPOSAL	1	20 A		--			0.00	0.00			--		20 A	1	EX. RECEPT TELE ROOM	70
71	EX. GARBAGE DISPOSAL	1	20 A		--					0.00	0.00	--		20 A	1	EX. RECEPT TELE ROOM	72
73	EX. OFFICES FURNITURE	1	20 A		--	0.00	0.00					--		20 A	1	EX. RECEPT TELE ROOM	74
75	EX. OFFICES FURNITURE	1	20 A		--			0.00	0.00			--		20 A	1	EX. RECEPT TELE ROOM	76
77	EX. OFFICES FURNITURE	1	20 A		--					0.00	0.00	--					78
79	**DRYER DECONTAMINATION 113**	2	30 A		Receptacle	0.09	0.00					--		20 A	1	EX. TIME CLOCK / PHOTO CELL	80
81								0.09	0.00								82
83	**EX. SPARE**	1	20 A		--					0.00	0.00			20 A	2	EX. RECIRC PUMP	84
						2.06 kVA		**1.7 kVA**		**0.9 kVA**							

	Connected KVA	Demand Factor	Demand KVA	Trip Unit Description	Notes:
Lighting Load (KVA)				Molded Case with Fixed Trip Unit	
Receptacle Load (KVA)	0.72	NEC	0.72	Molded Case with Electronic Trip Unit (LI)	
Heating Load (KVA)				Molded Case with Electronic Trip iUnit (LSI)	
Motor Load (KVA)					
Other Load (KVA)	3.94	0.80	3.15		
Total Load (KVA)	4.66		3.87		

LIGHTING FIXTURE SCHEDULE

NOTES:
1. LIGHTING FIXTURE SHALL QUALIFY FOR DSN ENERGY REBATE.

TYPE TAG	DESCRIPTION	MOUNTING	LAMPS					MANUFACTURERS	NOTES
			TYPE	LUMENS	TEMPERATURE	WATTS	VOLTS		
F1A	2X4 LAY IN TROFFER FIXTURE, STEEL HOUSING, DIMMING TO 1%	RECESSED	LED	3,470 lm	3,500 K	41 W	277 V	METALUX 24CZ2-35-UNV-L835-HCD	1
F1B	1X4 LAY IN TROFFER FIXTURE, STEEL HOUSING, DIMMING TO 1%	RECESSED	LED	3,470 lm	3,500 K	46 W	277 V	METALUX 14CZ2-35-UNV-L835-HCD	1
F2	4" RECESSESED CAN FIXTURE, STEEL HOUSING, WHITE TRIM, WET-RATED	RECESSED	LED	250 lm	3,500 K	3.1 W	277 V	GOTHAM LIGHTING EVO4SH-35-02-DFR-SOL-MVOLT OR APPROVED EQUALS	1
F3	4' PENDANT LED STRIP FIXTURE, STEEL HOUSING CHAIN HANGER	PENDANT	LED	3,500 lm	3,000 K	25 W	277 V	METALUX 4SNLED-LD5-36SL-UNV-L830-CD-AYC, OR APPROVED EQUALS	1
F4	WALL MOUNTED RECESSED NIGHT LIGHT, INTEGRATED PHOTOCELL, MATTE WHITE FINISH	WALL	LED	85 lm	3,500 K	1.56 W	277 V	LITON LSLD73, OR APPROVED EQUALS	1
F5	WALL MOUNT LED STRIP FIXTURE, LOW PROFILE, ALUMINIUM HOUSING, ANGLE ADJUSTED LENS	SURFACE	LED	1,700 lm	3,500 K	29.2 W	277 V	KLUS DESIGN MICRO-PLUS EXTRUSION, OR APPROVED EQUALS	1
F6	UNDERCABINET LOW PROFILE LED STRIP, ALUMINIUM HOUSING	SURFACE	LED	324 lm	3,000 K	8 W	277 V	LITHONIA RAZ-9IN-30K-90CRI-RAZTRANS24 MVOLT, OR APPROVED EQUALS	1
FX	EMERGENCY EXIT SIGN, RED LETTERING	UNIVERSAL	LED	3,500 lm	3,500 K	5 W	277 V	LPX SERIES, OR APPROVED EQUALS	1

TRANSFORMER SCHEDULE

IDEN	LOCATION	KVA	PHASE	VOLTAGE		CONNECTION		MOUNT	TYPE	NOTES
				PRIMARY	SECONDARY	PRIMARY	SECONDARY			
T-2	MECH 031	45	3.0	480	208/120	DELTA	WYE	FLOOR	DRY	

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PROFESSIONAL SEAL:

RACHEL COCHRAN
REGISTERED
No. PE11600436
STATE OF INDIANA
PROFESSIONAL ENGINEER

PROJECT NUMBER: 25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

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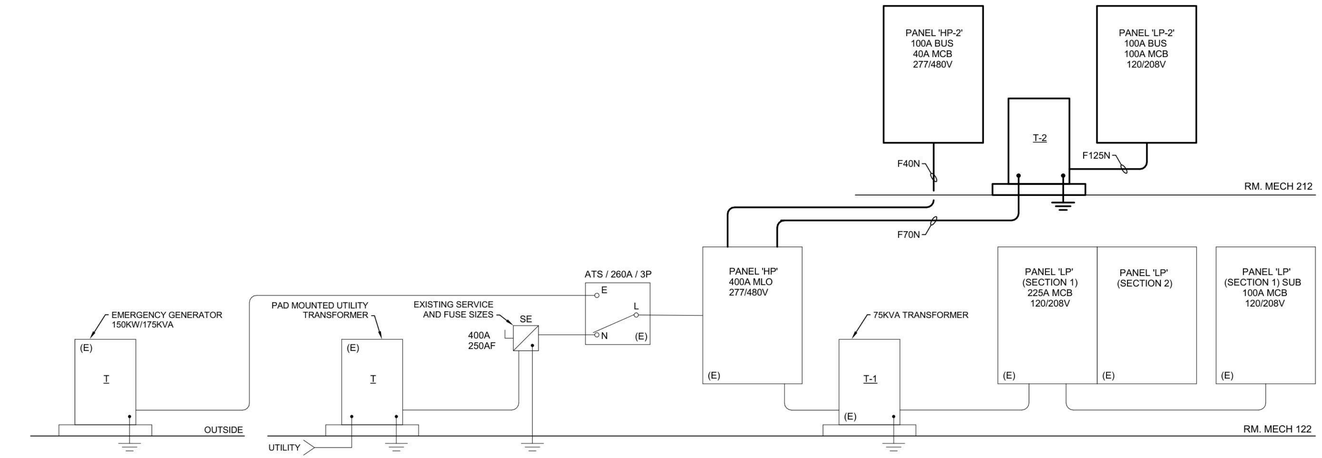
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08/14/26	JKW	DJJ

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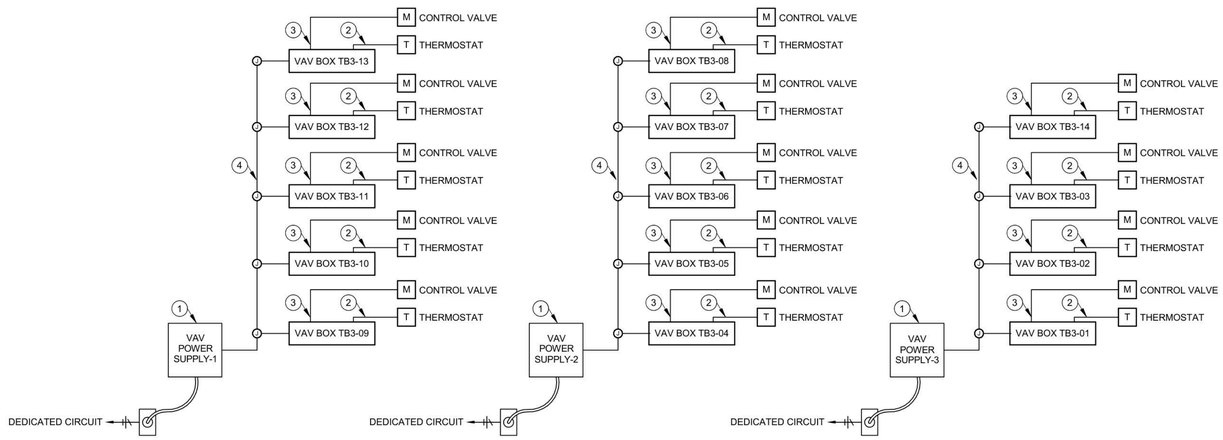
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FEEDER AND BRANCH CIRCUIT SIZING TABLE FOR EMT CONDUIT AND THWN/XHHW, 600V, 75 degree C, COPPER CONDUCTORS (NEC-Table-310.15(B)(16)) & (NEC-Table-1, Chapter-9)								
DESIGNATION	CONDUCTOR SIZE PER CONDUIT		FEEDER CONDUIT SIZE -EMT					
	PHASE & NEUTRAL	BUILDING GROUND	QTY	1P,1N,1G OR	QTY	2P,1N,1G OR	QTY	3P,1N,1G OR
	COPPER	COPPER		2P,1G		3P,1G		3P,1N,2G
F20	12	12	1	3/4"	1	3/4"	1	3/4"
F30	10	10	1	3/4"	1	3/4"	1	3/4"
F40	8	10	1	3/4"	1	3/4"	1	3/4"
F50	6	10	1	3/4"	1	3/4"	1	1"
F60	4	10	1	1"	1	1"	1	1-1/4"
F70	4	8	1	1"	1	1"	1	1-1/4"
F80	3	8	1	1"	1	1-1/4"	1	1-1/4"
F90	2	8	1	1"	1	1-1/4"	1	1-1/4"
F100	1	8	1	1-1/2"	1	1-1/2"	1	1-1/2"
F110-F125	1	6	1	1-1/2"	1	1-1/2"	1	1-1/2"
F150	1/0	6	1	1-1/4"	1	1-1/2"	1	2"
F175	2/0	6	1	1-1/4"	1	2"	1	2"
F200	3/0	6	1	2"	1	2"	1	2"
F225	4/0	4	1	2"	1	2-1/2"	1	2-1/2"
F250	250	4			1	2-1/2"	1	2-1/2"
F300	350	4			1	2-1/2"	1	3"
F350	500	3			1	3	1	3-1/2"
F400	500	3			1	3	1	3-1/2"
F400F	600	3			1	4"	1	4"
F400F1	3/0	3			2	2"	2	2"
F450	4/0	2			2	2"	2	2-1/2"
F500	250	2			2	2"	2	2-1/2"
F600	350	1			2	3"	2	3"
F800	600	1/0			2	4"	2	4"
F900	350	2/0			3	2-1/2"	3	3"
F1000	500	2/0			3	3"	3	3-1/2"
F1200	600	3/0			3	3"	3	3-1/2"
F1600	500	4/0			5	3"	5	3-1/2"



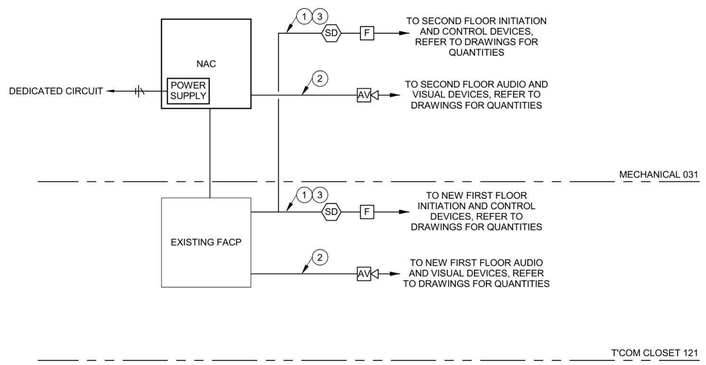
1 ONE-LINE DIAGRAM
SCALE: NONE



PLAN NOTES:

1. VAV BOX POWER SUPPLY INSTALLED BY EC, FURNISHED BY OTHERS. MODEL NUMBER PSH200A MANUFACTURED BY FUNCTIONAL DEVICES.
2. THERMOSTAT INSTALLED BY EC, PROVIDED BY OTHERS. CAT5 CONTROL CABLE PROVIDED BY EC FROM THERMOSTAT TO VAV BOX.
3. CONTROL VALVE PROVIDED BY MC. 3-WIRE CONTROL WIRING PROVIDED BY EC FROM CONTROL VALVE TO VAV BOX.
4. 2-WIRE CONTROL WIRING PROVIDED BY EC.

2 CONTROL WIRING DIAGRAM
SCALE: NONE



PLAN NOTES:

1. 18/4 FIRE ALARM WIRE
2. 16/2 FIRE ALARM WIRE
3. NEW INITIATING DEVICES SAHLL BE TIED INTO EXISTING FA POLLING LOOP.

3 FA RISER DIAGRAM
SCALE: NONE

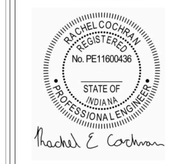
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PROFESSIONAL SEAL:



PROJECT NUMBER:
25-150

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:
08/14/26	JKW	DJJ

DRAWING TITLE:
ELECTRICAL DIAGRAMS

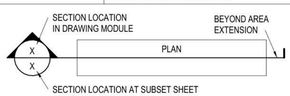
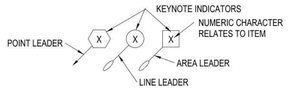
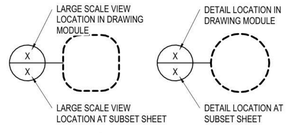
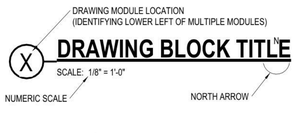
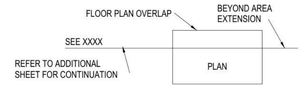
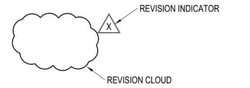
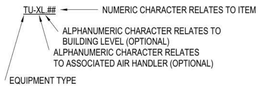
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ABBREVIATIONS AND TERMS

&	AND	LBS	POUNDS
°F	DEGREES FAHRENHEIT	MAX	MAXIMUM
AFC	ABOVE FINISHED COUNTER	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	MIN	MINIMUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MISC	MISCELLANEOUS
ARCH	ARCHITECT	MTD	MOUNTED
AVG	AVERAGE	NA	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	NEC	NATIONAL ELECTRIC CODE
BLDG	BUILDING	NIC	NOT IN CONTRACT
BMS	BUILDING MANAGEMENT SYSTEM	NOM	NOMINAL
BSMT	BASEMENT	NTS	NOT TO SCALE
C	CONDUIT	OD	OUTSIDE DIAMETER
CLG	CEILING	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
DWG	DRAWING	PVC	POLYVINYL CHLORIDE CONDUIT/PIPE
EA	EACH	RGS	RIGID GALVANIZED CONDUIT
EC	ELECTRICAL CONTRACTOR	RM	ROOM
EL	ELEVATION	SF	SQUARE FOOT
EMT	ELECTRICAL METALLIC TUBING	SPEC	SPECIFICATION
ETR	EXISTING TO REMAIN	SQ	SQUARE
EX	EXISTING	STD	STANDARD
FLR	FLOOR	TBD	TO BE DETERMINED
FT	FOOT, FEET	TBI	TO BE INSTALLED
G	GROUND	TBR	TO BE REMOVED
GC	GENERAL CONTRACTOR	TC	TEMPERATURE CONTROLS
GRD	GROUND	TCC	TEMPERATURE CONTROLS CONTRACTOR
GND	GROUND	TEMP	TEMPERATURE
HORIZ	HORIZONTAL	TYP	TYPICAL
HR	HOUR(S)	UON	UNLESS OTHERWISE NOTED
Hz	HERTZ	VERT	VERTICAL
ID	INSIDE DIAMETER	WP	WEATHERPROOF
IN	INCH, INCHES	W/	WITH
INT	INTERIOR	W/O	WITHOUT

REFERENCE SYMBOLS

SECTION INDICATOR:	REFERENCE SECTION LOCATION THROUGH AN AREA FOR ADDITIONAL INFORMATION.	KEYNOTE INDICATOR:	REFERENCE SHEET KEYNOTE LOCATION FOR ADDITIONAL INFORMATION.
			
DETAIL INDICATOR:	REFERENCE DETAIL LOCATION FOR ADDITIONAL INFORMATION.	DRAWING BLOCK TITLE INDICATOR:	REFERENCE DRAWING MODULE LOCATION FOR ADDITIONAL INFORMATION.
			
MATCH LINE INDICATOR:	REFERENCE SHEET LOCATION FOR ADDITIONAL INFORMATION.	REVISION INDICATOR:	REFERENCE TITLE BLOCK LOCATION FOR ADDITIONAL INFORMATION.
			
EQUIPMENT INDICATOR:	REFERENCE SCHEDULE LOCATION FOR ADDITIONAL INFORMATION.	DIFFUSER, GRILLE, REGISTER INDICATOR:	REFERENCE SCHEDULE LOCATION FOR ADDITIONAL INFORMATION.
			

LINETYPE DESIGNATIONS

DEMOLITION	– – – – – – – – – – – – – – – – – –
EXISTING	———————————
NEW WORK	———————————
FUTURE	– – – – – – – – – – – – – – – – – –

HORIZONTAL DATA CABLING COLOR LEGEND

SYSTEM	TERMINATION (RJ-45)	CABLE	PATCH CABLE
DATA	ORANGE	GRAY	BLACK
WIRELESS	ORANGE	GRAY	PURPLE
IP CAMERA	ORANGE	GRAY	YELLOW
AV	GREEN	GRAY	GREEN

TECHNOLOGY GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. ALL LOCATIONS SHALL BE FIELD VERIFIED.

B. CONTRACT DOCUMENTS CONSIST OF BOTH THE PROJECT MANUAL AND DRAWINGS, AND BOTH ARE INTENDED TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.

C. THE CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL COSTS REQUIRED TO COMPLETELY AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT, AND SHALL EXAMINE THE SCOPE OF WORK OF OTHER TRADES PRIOR TO SUBMITTING A BID PROPOSAL.

D. CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES, ENLARGED FOR CLARITY. ANY OFFSETS, ADDITIONAL FITTINGS, AND/OR APPURTENANCES REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM SHALL BE BORNE BY THE CONTRACTOR.

E. THE TECHNOLOGY DRAWINGS ARE OF EQUAL IMPORTANCE WITH THE ARCHITECTURAL AND ENGINEERING DRAWINGS IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE THE INSTALLATION OF ENGINEERING WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS AND THE TECHNOLOGY DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, THE DISCREPANCY SHALL BE BROUGHT TO THE ARCHITECTS/ENGINEERS ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER.

F. DO NOT SCALE THE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING THE WORK. EXPLICIT DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE.

G. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING OR BEGINNING WORK ON THIS PROJECT.

H. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

I. ANY DETAILS, SYSTEMS AND/OR MATERIALS WHICH ARE PROPOSED TO BE CHANGED MUST FIRST BE REVIEWED BY THE OWNER AND ARCHITECT/ENGINEER PRIOR TO THE PREPARATION OF SHOP DRAWINGS.

J. ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION ADOPTED BY STATE HAVING JURISDICTION, AND THE STATE HAVING JURISDICTION ELECTRICAL CODE AMENDMENTS, LOCAL/MUNICIPAL CODES, AND THE AUTHORITY HAVING JURISDICTION.

K. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS WORK, DUE TO A LACK OF COORDINATION.

L. COORDINATE LOCATION OF ALL DEVICES TO BE INSTALLED IN CEILINGS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ENGINEER OF AN CONFLICTS PRIOR TO INSTALLATION.

M. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THEIR AREAS OF CONSTRUCTION. PROJECT AREAS SHALL BE THOROUGHLY CLEANED AND TRASH DISPOSED OF AT THE END OF EACH WORK DAY. THE OWNER'S FACILITIES SHALL NOT BE USED FOR TRASH DISPOSAL.

N. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THEIR WORK FROM DUST AND DEBRIS. CONTRACTOR SHALL PROVIDE DUST BARRIERS FOR ALL TECHNOLOGY EQUIPMENT AS REQUIRED TO PROTECT THE TECHNOLOGY EQUIPMENT.

O. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURFACES AND FINISHED OF THE CONSTRUCTION SITE DURING THE INSTALLATION OF THE TECHNOLOGY SYSTEMS. DAMAGED SURFACES OR FINISHES RESULTING FROM THE PERFORMANCE OF THE WORK OR NEGLIGENCE SHALL BE REPAIRED AT NO COST TO THE OWNER BY THE RESPONSIBLE CONTRACTOR. FINISHES AND SURFACES SHALL BE MADE TO MATCH THE EXISTING FINISHES OR SURFACES TO THE SATISFACTION OF THE OWNER AND ARCHITECT/CONSTRUCTION MANAGER.

TECHNOLOGY PATHWAY NOTES

1. ALL HORIZONTAL CABLING RUNS SHALL BE SUPPORTED NEATLY WITH CABLE TRAY, CONDUITS, OR J-HOOKS. ALL HORIZONTAL CABLING THAT IS NOT INSTALLED IN CABLE TRAY OR CONDUIT SHALL BE SUPPORTED WITH J-HOOKS. CABLES SHALL NOT LIE ON THE STRUCTURAL STEEL OR SYSTEMS OF THE FACILITY.
2. ALL CONDUIT PENETRATIONS SHALL BE SEALED WITH APPROPRIATE CONDUIT SEALING MATERIAL AND SHALL MATCH FIRE RATING OF BARRIER BEING PENETRATED.
3. FIELD VERIFY LOCATIONS OF BUILDING EXPANSION JOINTS WHEN ROUTING CONDUIT. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH EXPANSION FITTINGS. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.
4. WHEN CABLE TRAY IS SHOWN ON THE PLANS AND PORTIONS OF CABLE TRAY CANNOT BE INSTALLED DUE TO CONFLICT WITH STRUCTURE, THE CONTRACTOR SHALL PROVIDE (2) 4" C. WITH INSULATED BUSHINGS THAT OVERLAP 1" INTO THE TRAY.
5. CONDUITS 2" AND LARGER THAT PENETRATE EXTERIOR WALLS SHALL USE LINK-SEALS.
6. DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS).
7. COORDINATE AND VERIFY LOCATIONS OF DEVICES WITH BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.
8. ALL DEVICE BOXES SHALL BE FLUSH MOUNTED AND ALL RACEWAYS SHALL BE CONCEALED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CUT AND PATCH EXISTING WALLS WITH EXTREME CAUTION, SO AS TO MINIMIZE INVASIVENESS OF INSTALLATION. ROUTE RACEWAYS SO AS TO MINIMIZE THE AMOUNT OF CUTTING AND PATCHING REQUIRE. PATCHING SHALL COMPLY WITH ALL BID DOCUMENT REQUIREMENTS.
9. CONDUIT RUNS SHALL HAVE NO MORE THAN 180 DEGREES OF BENDS WITHOUT A PULL BOX. WHERE CONDUIT IS SHOWN AND/OR SPECIFIED, CONTRACTOR SHALL PROVIDE ALL PULL BOXES SHOWN ON THE DRAWINGS AND ADDITIONAL PULL BOXES AS FOLLOWS:
   A. EVERY 180 DEGREES OF CONDUIT BEND
   B. EVERY 100 FEET OF CONDUIT PATH
10. PROVIDE PLASTIC INSULATED BUSHINGS ON ALL CONDUIT STUB'S. BUSHINGS SHALL ALSO BE PROVIDED FOR ALL CONDUITS WHETHER ABOVE OR BELOW CEILING OR AT FLOOR LEVEL. IT IS THE COMMUNICATIONS CABLING CONTRACTORS RESPONSIBILITY TO ENSURE BUSHINGS HAVE BEEN PROVIDED ON ALL CONDUITS PRIOR TO PULLING CABLES. IF CONDUITS ARE FOUND TO BE WITHOUT BUSHINGS, COMMUNICATIONS CABLING CONTRACTOR SHALL REMOVE CABLING, PROVIDE BUSHINGS AND REPLACE WITH NEW CABLING.

FIRESTOPPING NOTES

1. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED AFTER ALL CABLES ARE PULLED (ALL SYSTEMS) USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FLOOR AND WALL PENETRATION REQUIRED FOR THIS PROJECT. ALL OTHER PENETRATIONS OR OPENINGS IN NON-FIRE RATED WALLS SHALL BE REPAIRED AND SEALED WITH MATERIALS TO MATCH THE EXISTING CONSTRUCTION.

TECHNOLOGY SYMBOLS LEGEND

SYMBOL	DESCRIPTION	ROUGH-IN REQUIREMENTS	MOUNTING HEIGHT (UNO)	ROUGH-IN DETAIL
xD ▽	TELECOMMUNICATIONS OUTLET. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG OR DOUBLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+18"	1/T-501
xD ▽ W	TELECOMMUNICATIONS OUTLET WITH WALL PLATE. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+44"	1/T-501
xD VI ▽	VIDEO INPUT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG OR DOUBLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+18"	1/T-501
xD VO ▽	VIDEO OUTPUT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG OR DOUBLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+60"	1/T-501
VO xD	VIDEO OUTPUT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE CHIEF PAC501B WALL BOX AND CHIEF PNRIWUB MOUNT. PROVIDE ONE (1) 1-1/4" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	+60"	2/T-501
WAP xD	CEILING MOUNTED WIRELESS ACCESS POINT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE 4" SQUARE BOX WITH BLANK METAL COVER PLATE. METAL BOX SHALL BE SUPPORTED FROM WALL ABOVE ACCESSIBLE CEILING), OR STRUCTURE, OR UNISTRUT. METAL BOX SHALL NOT BE INSTALLED LOOSE ON CEILING TILES.	-	-
WAP ⊥ xD	WALL MOUNTED WIRELESS ACCESS POINT LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+96"	1/T-501

SECURITY SYMBOLS LEGEND

SYMBOL	DESCRIPTION	ROUGH-IN REQUIREMENTS	MOUNTING HEIGHT (UNO)	ROUGH-IN DETAIL
CR	CARD READER.	PROVIDE RANDL T-55017-USA SINGLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+44"	3, 4 / T-501
EL	ELECTRONIC LATCH.	COORDINATE ROUGH-IN AND CONDUIT INTO DOOR FRAME WITH DOOR HARDWARE MANUFACTURER.	-	3, 4 / T-501
ES	ELECTRONIC STRIKE.	COORDINATE ROUGH-IN AND CONDUIT INTO DOOR FRAME WITH DOOR HARDWARE MANUFACTURER.	-	3, 4 / T-501
DC	DOOR CONTACT.	COORDINATE ROUGH-IN AND CONDUIT INTO DOOR FRAME WITH DOOR HARDWARE MANUFACTURER.	-	3, 4 / T-501
xD	CEILING MOUNTED IP VIDEO SURVEILLANCE CAMERA LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE 4" SQUARE BOX WITH BLANK METAL COVER PLATE. METAL BOX SHALL BE SUPPORTED FROM WALL ABOVE ACCESSIBLE CEILING), OR STRUCTURE, OR UNISTRUT. METAL BOX SHALL NOT BE INSTALLED LOOSE ON CEILING TILES.	-	-
xD ⊥	WALL MOUNTED IP VIDEO SURVEILLANCE CAMERA LOCATION. WHEN INDICATED WITH xD, x INDICATES THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLE.	PROVIDE RANDL T-55017-USA SINGLE GANG MUD RING. PROVIDE ONE (1) 1" C. STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRINGS.	+96"	-

NOT ALL NOTES, DESIGNATORS, SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PROJECT

Etica GROUP

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

KBSO #26029

OLUWASEUN ODUKOMAIYA
REGISTERED
No. 11300632
STATE OF
INDIANA
PROFESSIONAL ENGINEER

8/21/2026

PROJECT NUMBER:
260060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/26	EAG	MLM

DRAWING TITLE:
SYMBOLS AND ABBREVIATIONS

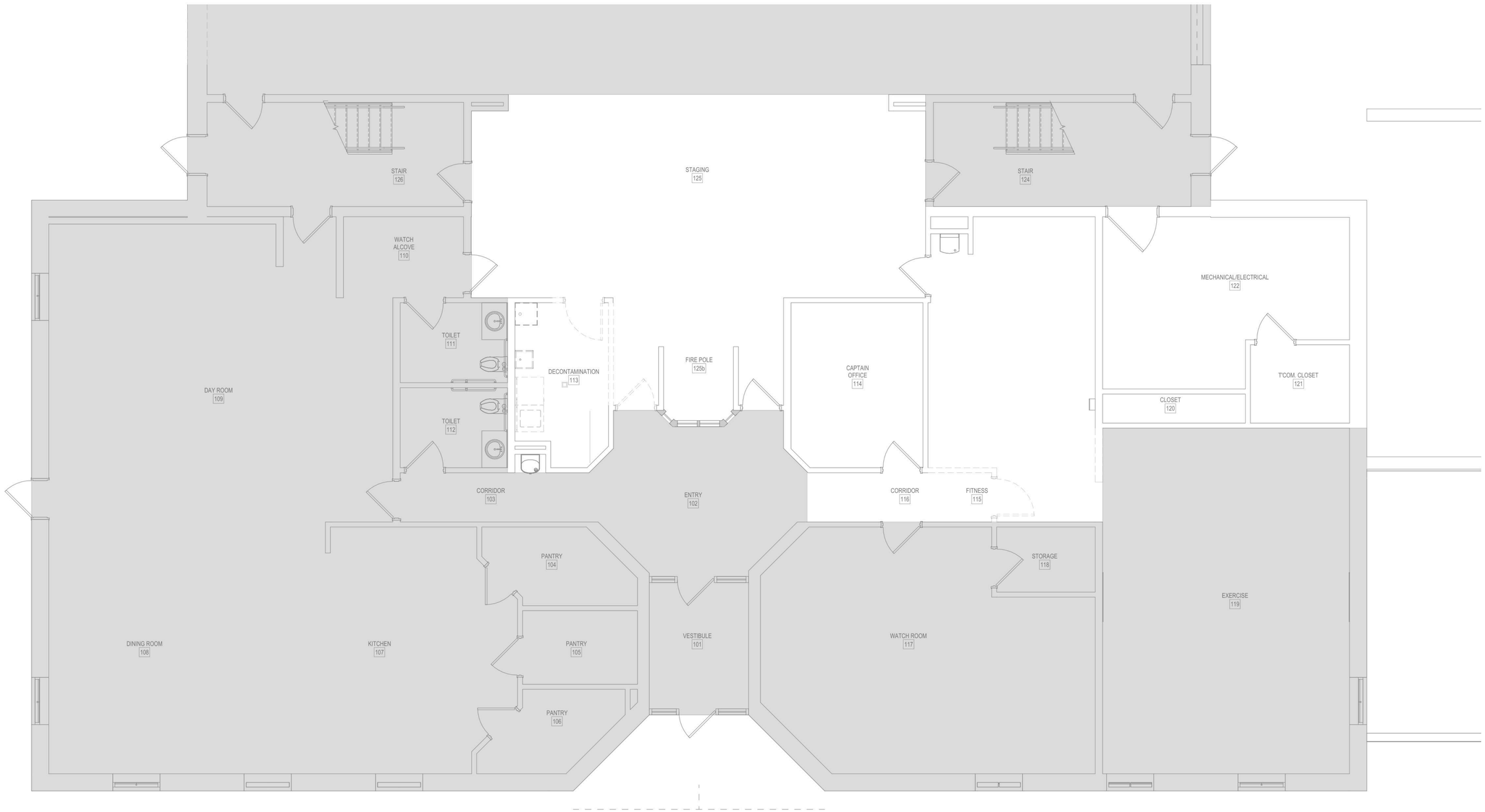
SHEET NUMBER:
T000

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ACCESS CONTROL NOTE:

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JIM FERNANDEZ
JIMFIXIN@YAHOO.COM
317-402-8890

SHEET KEYNOTES



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

Renovation of Station 46
540 W. 136th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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8/21/2026

PROJECT NUMBER:
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REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

DATE ISSUED:	DRAWN BY:	CHECKED BY:
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DRAWING TITLE:
TECHNOLOGY FIRST FLOOR DEMOLITION PLAN

SHEET NUMBER:
TD101

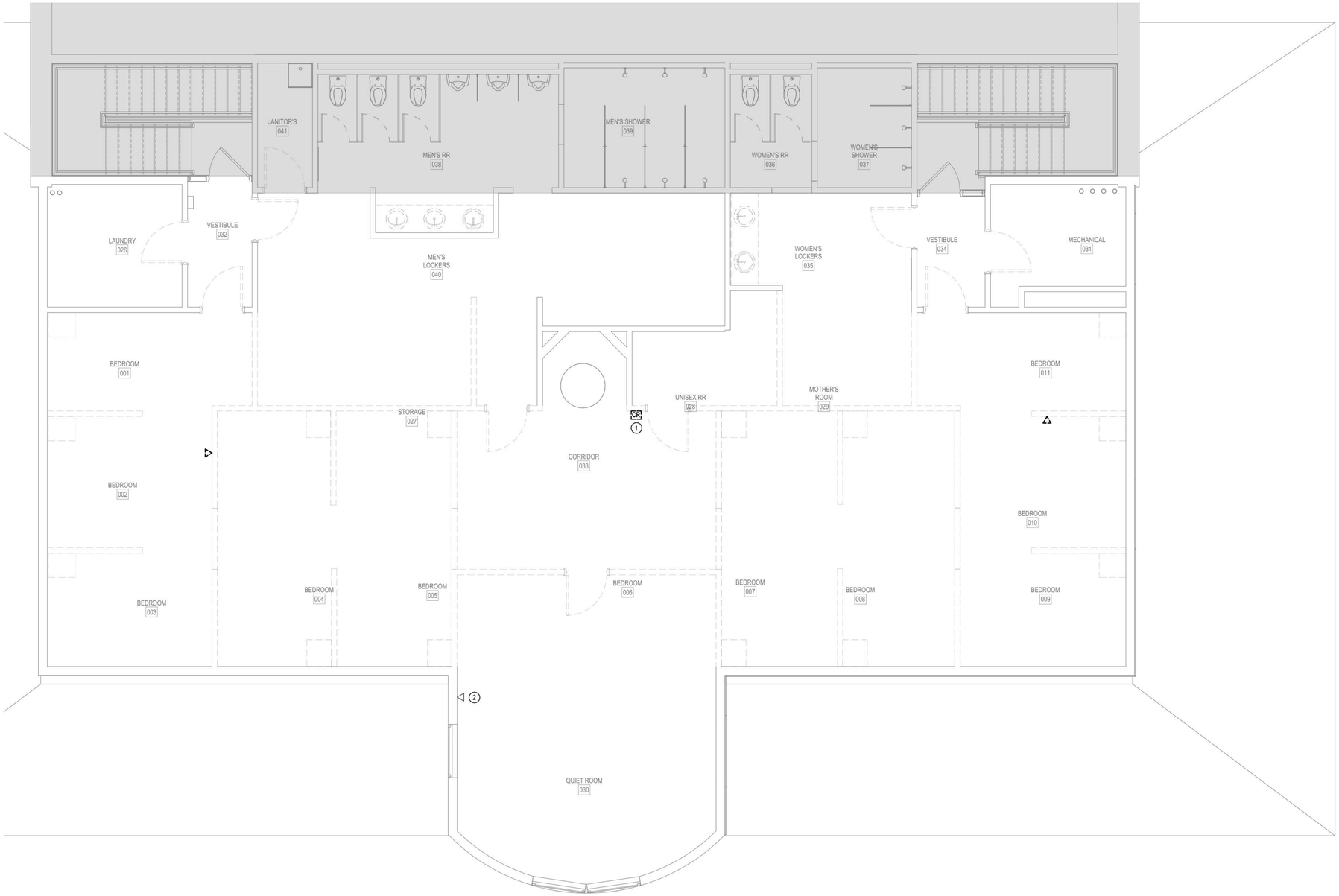
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JIM FERNANDEZ
JIMFIXIN@YAHOO.COM
317-402-8890

SHEET KEYNOTES

1 REMOVE EXISTING CARD READER AND TURN OVER TO OWNER.
2 EXISTING DATA OUTLETS TO REMAIN



1 SECOND FLOOR TECHNOLOGY DEMOLITION PLAN

1/4" = 1'-0"

Etica GROUP

Renovation of Station 46
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Carmel, IN 46032

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8/21/2026

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REVISION SCHEDULE

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DRAWING TITLE:
TECHNOLOGY SECOND FLOOR DEMOLITION PLAN

SHEET NUMBER:
TD102

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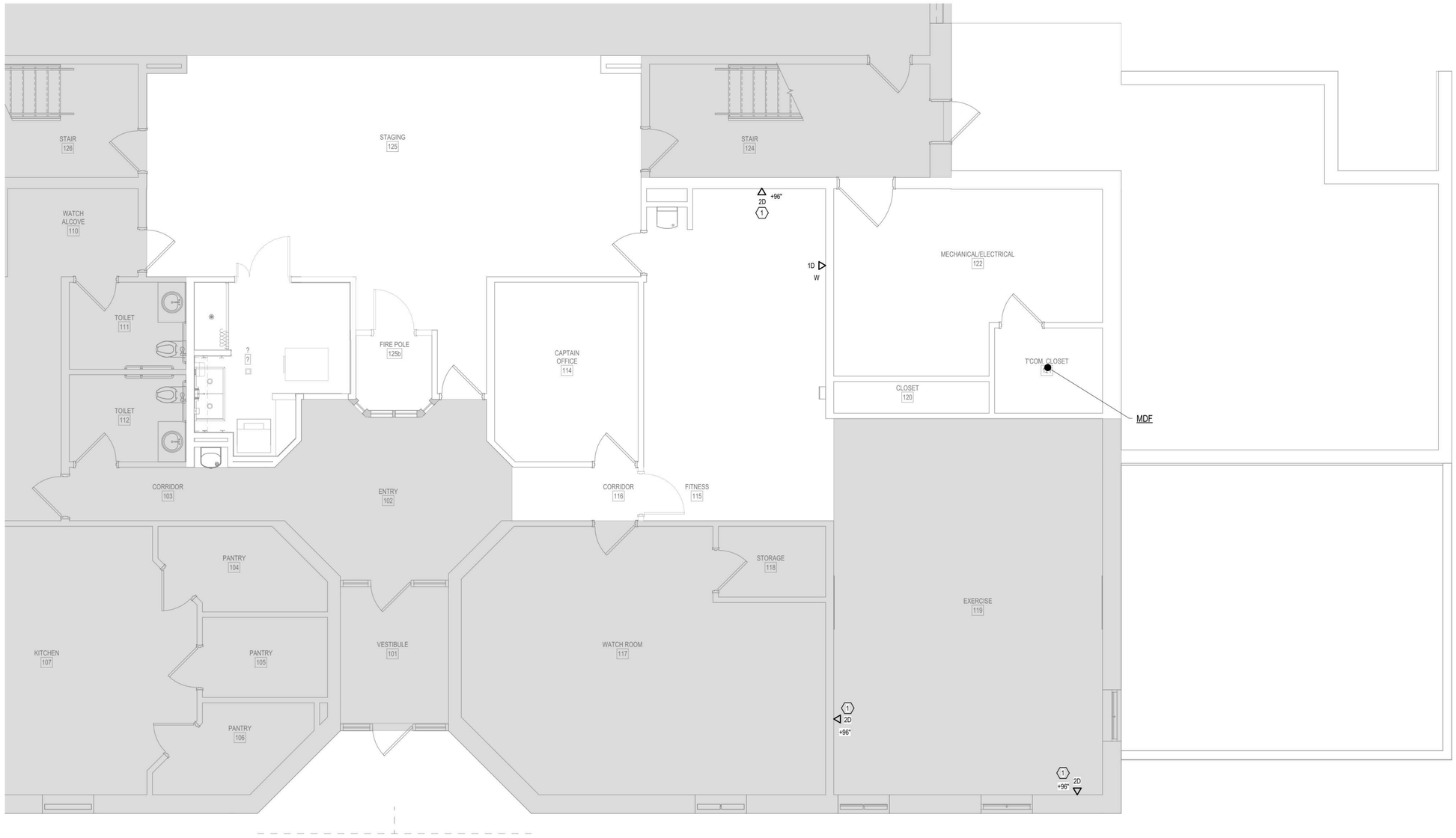
ALL ACCESS CONTROL WORK SHALL BE COORDINATED WITH CITY OF CARMEL'S EXISTING ACCESS CONTROL INTEGRATOR JAF PROPERTIES:
JIM FERNANDEZ
JIMFIXIN@YAHOO.COM
317-402-8890

GENERAL NOTES

A REFER TO SHEET T000 FOR GENERAL TECHNOLOGY NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO T500 SERIES SHEETS FOR DETAILS.

SHEET KEYNOTES

1 COORDINATE FINAL LOCATION OF TV WITH OWNER PRIOR TO INSTALLATION



1 FIRST FLOOR TECHNOLOGY PLAN

1/4" = 1'-0"

NOTE:
ALL CABLING ON THIS PLAN IS ROUTED TO THE EXISTING MDF.

Etica GROUP

Renovation of Station 46
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PROJECT NUMBER:
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TECHNOLOGY FIRST FLOOR PLAN

SHEET NUMBER:
T101

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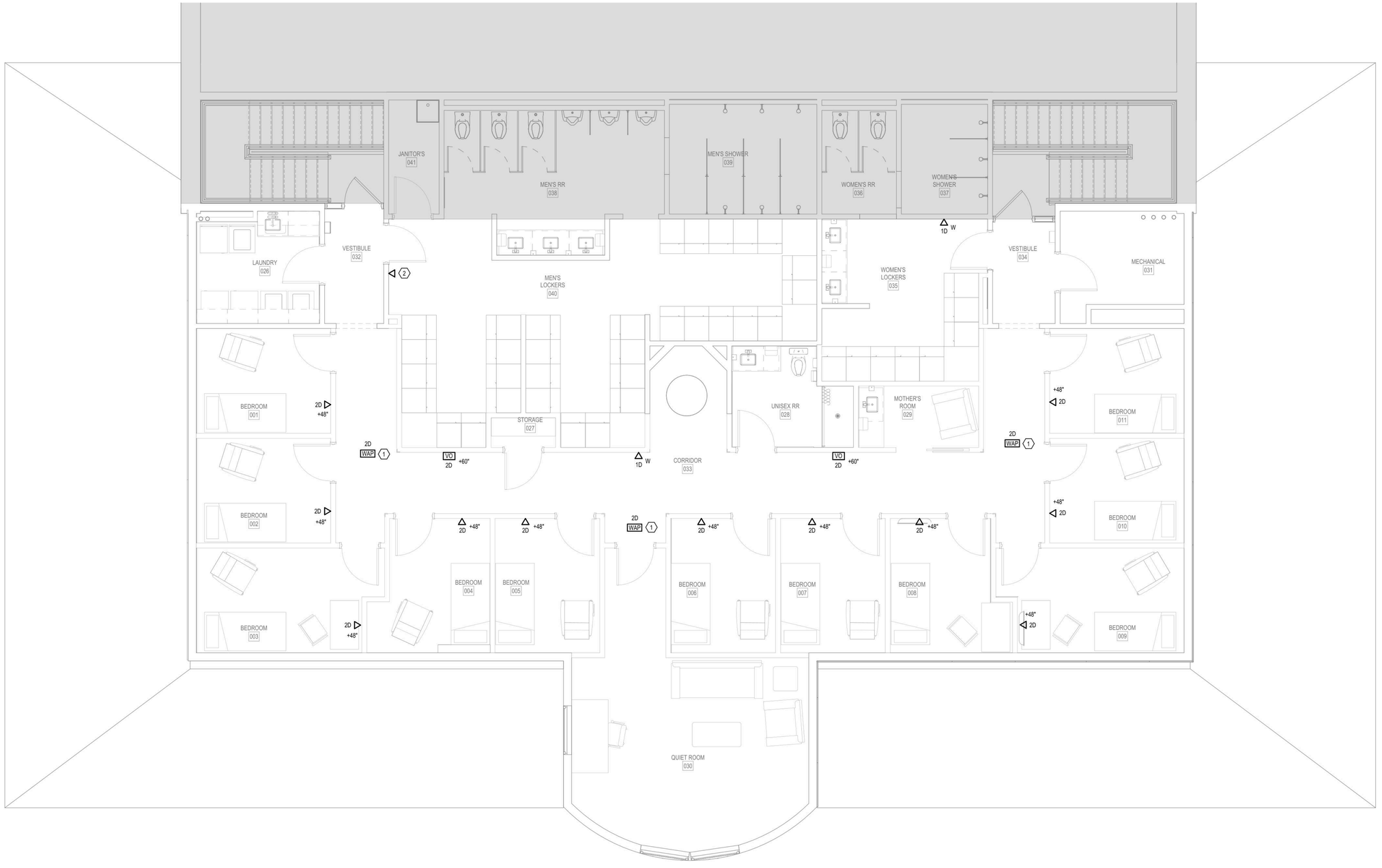
ALL ACCESS CONTROL WORK SHALL BE COORDINATED WITH CITY OF CARMEL'S EXISTING ACCESS CONTROL INTEGRATOR JAF PROPERTIES:
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JIMFIXIN@YAHOO.COM
317-402-8890

GENERAL NOTES

A REFER TO SHEET T000 FOR GENERAL TECHNOLOGY NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO T500 SERIES SHEETS FOR DETAILS.

SHEET KEYNOTES

1 PROVIDE CATEGORY 6A DROPS FOR WIRELESS ACCESS POINT. PROVIDE 20FT. SLACK LOOP COILED NEATLY AND SUPPORTED ABOVE THE CEILING. TERMINATE CABLES WITH RJ45 MODULAR JACKS AND TEST PER SPECIFICATIONS. NOTE LOCATION ON THE RECORD DRAWINGS AND MARK LOCATION ON THE CEILING WITH A GREEN DOT STICKER.
2 EXISTING WALL PHONE TO REMAIN.



1 SECOND FLOOR TECHNOLOGY PLAN
1/4" = 1'-0"

NOTE:
ALL CABLING ON THIS PLAN IS ROUTED TO THE EXISTING MDF.

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Renovation of Station 46
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Carmel, IN 46032

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REVISION SCHEDULE

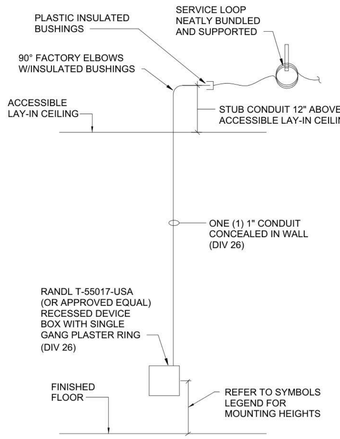
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DRAWING TITLE:
TECHNOLOGY SECOND FLOOR PLAN

SHEET NUMBER:
T102

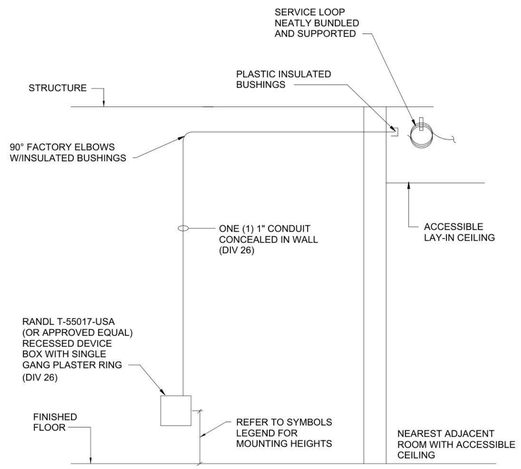
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ROUGH-IN NOTES:

1. PROVIDE PULL STRINGS IN ALL CONDUITS. PULL STRINGS SHALL BE INSTALLED IN EMPTY AND FULL CONDUITS.
2. MOUNTING HEIGHTS TO BE INSTALLED ABOVE COUNTERS OR IN CASEWORK SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.
3. ALL CONDUITS AND FITTINGS SHALL BE EMT.

1-GANG TELECOMMUNICATIONS OUTLET ROUGH-IN DETAIL WITH ACCESSIBLE LAY-IN CEILING



ROUGH-IN NOTES:

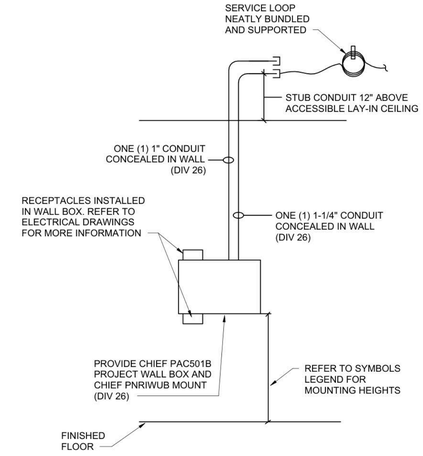
1. PROVIDE PULL STRINGS IN ALL CONDUITS. PULL STRINGS SHALL BE INSTALLED IN EMPTY AND FULL CONDUITS.
2. MOUNTING HEIGHTS TO BE INSTALLED ABOVE COUNTERS OR IN CASEWORK SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.
3. ALL CONDUITS AND FITTINGS SHALL BE EMT.

1-GANG TELECOMMUNICATIONS OUTLET ROUGH-IN DETAIL WITH NO CEILING

SINGLE GANG ROUGH-INS SHALL BE INSTALLED FOR TELECOMMUNICATIONS OUTLETS WITH FOUR (4) DATA CABLES OR LESS AND AT LOCATIONS INDICATED IN DRAWINGS UNLESS NOTED OTHERWISE

1 NEW WALL CONSTRUCTION 1-GANG DATA/VIDEO ROUGH-IN DETAILS

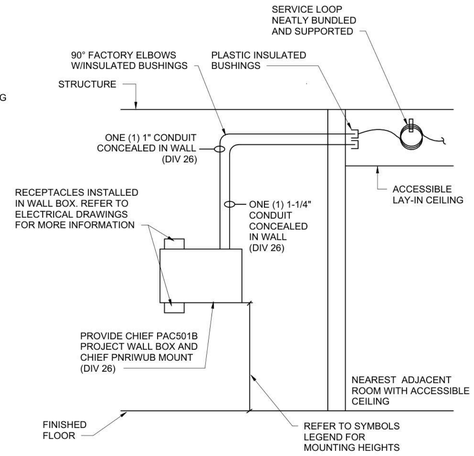
NOT TO SCALE



ROUGH-IN NOTES:

1. PROVIDE PULL STRINGS IN ALL CONDUITS. PULL STRINGS SHALL BE INSTALLED IN EMPTY AND FULL CONDUITS.
2. MOUNTING HEIGHTS TO BE INSTALLED ABOVE COUNTERS OR IN CASEWORK SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.
3. ALL CONDUITS AND FITTINGS SHALL BE EMT.

VIDEO OUTPUT WALLBOX ROUGH-IN DETAIL WITH EXPOSED OR FINISHED CEILING



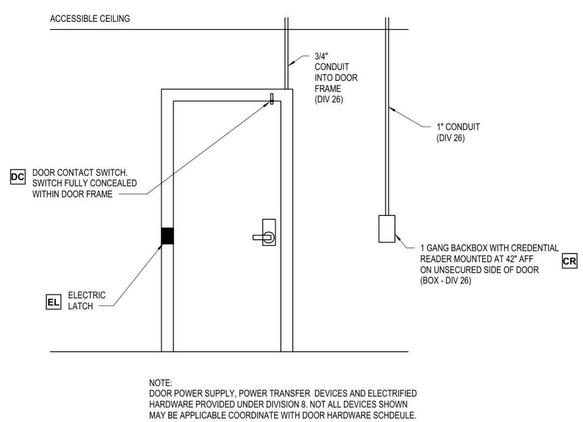
ROUGH-IN NOTES:

1. PROVIDE PULL STRINGS IN ALL CONDUITS. PULL STRINGS SHALL BE INSTALLED IN EMPTY AND FULL CONDUITS.
2. MOUNTING HEIGHTS TO BE INSTALLED ABOVE COUNTERS OR INCASEWORK SHALL BE COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.
3. ALL CONDUITS AND FITTINGS SHALL BE EMT.

VIDEO OUTPUT WALLBOX ROUGH-IN DETAIL WITH EXPOSED OR FINISHED CEILING

2 NEW WALL CONSTRUCTION VIDEO OUTLET ROUGH-IN DETAILS

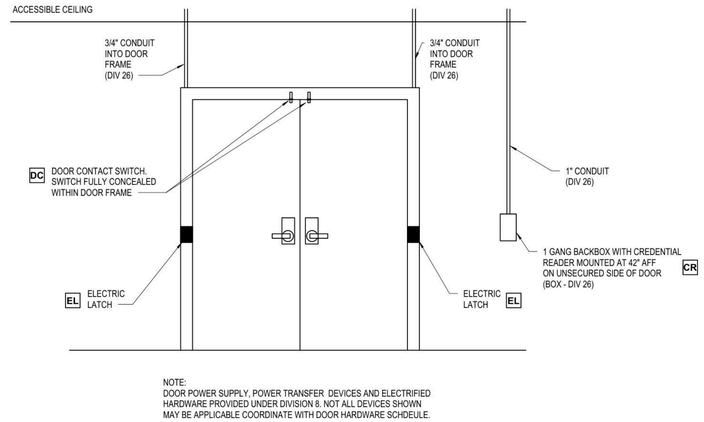
NOT TO SCALE



NOTE:
DOOR POWER SUPPLY, POWER TRANSFER DEVICES AND ELECTRIFIED HARDWARE PROVIDED UNDER DIVISION 8. NOT ALL DEVICES SHOWN MAY BE APPLICABLE COORDINATE WITH DOOR HARDWARE SCHDEULE.

3 TYPICAL SECURED SINGLE DOOR RISER

NOT TO SCALE



NOTE:
DOOR POWER SUPPLY, POWER TRANSFER DEVICES AND ELECTRIFIED HARDWARE PROVIDED UNDER DIVISION 8. NOT ALL DEVICES SHOWN MAY BE APPLICABLE COORDINATE WITH DOOR HARDWARE SCHDEULE.

4 TYPICAL SECURED DOUBLE DOOR RISER

NOT TO SCALE

Etica GROUP

Renovation of Station 46
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OLUMUASEUN ODUKOMAIYA
REGISTERED
No. 11300632
STATE OF INDIANA
PROFESSIONAL ENGINEER
8/21/2026

PROJECT NUMBER: 260060

REVISION SCHEDULE

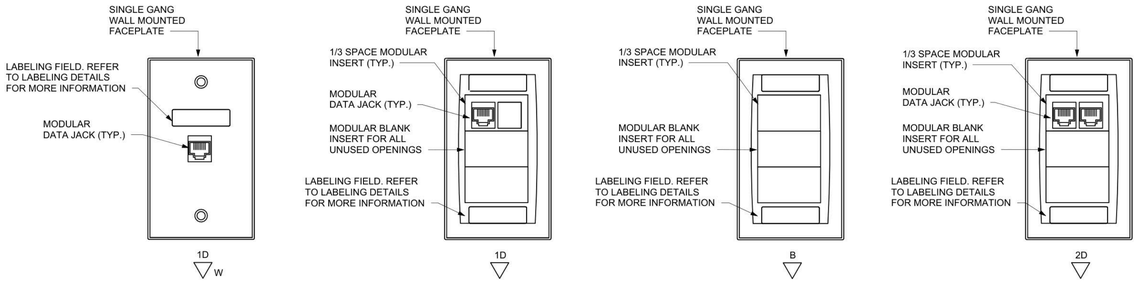
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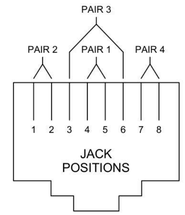
DRAWING TITLE: TECHNOLOGY DETAILS

SHEET NUMBER: T501

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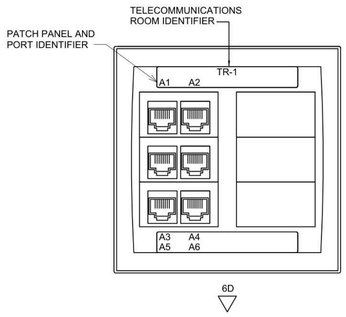


1 FACEPLATE DETAILS
NOT TO SCALE

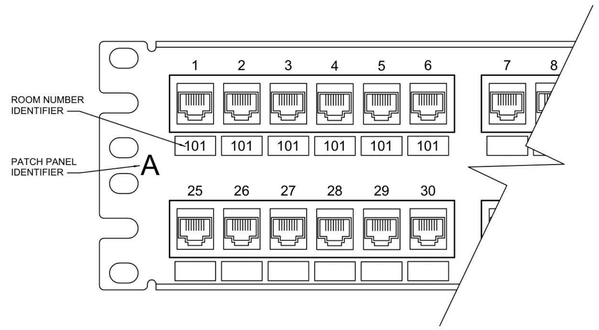


WIRE DIAGRAM FOR T568B	
RJ45 PIN #	**WIRE COLOR**
1	WHITE/ORANGE
2	ORANGE
3	WHITE/GREEN
4	BLUE
5	WHITE/BLUE
6	GREEN
7	WHITE/BROWN
8	BROWN

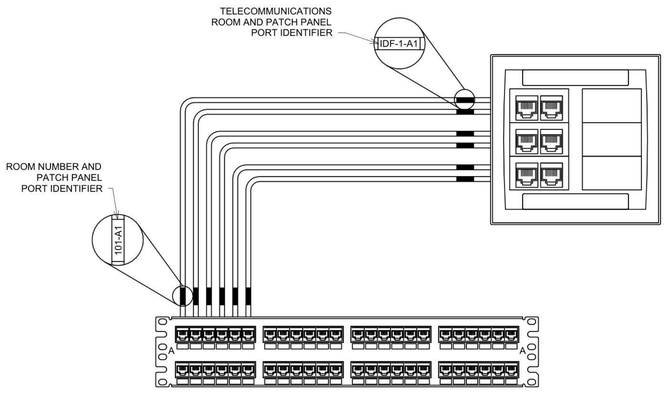
2 T568B JACK WIRING DETAIL
NOT TO SCALE



FACEPLATE LABELING DETAIL



COPPER PATCH PANEL LABELING DETAIL



HORIZONTAL DATA CABLE LABELING DETAIL

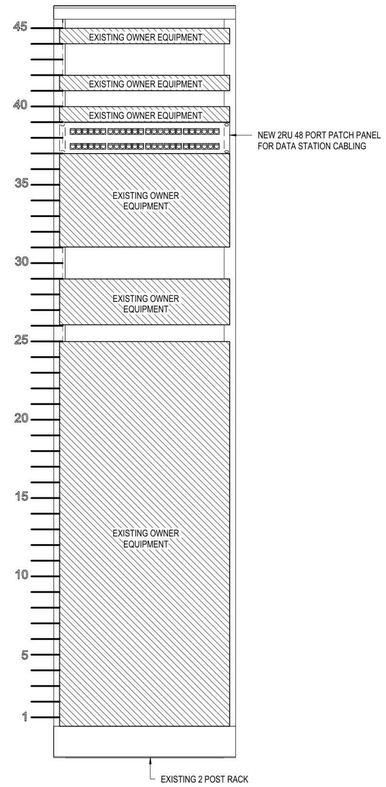
TELECOMMUNICATIONS LABELING GENERAL NOTES:

A. LABELS INDICATED ARE FOR REFERENCE ONLY. CONFIRM FINAL LABELING SCHEME WITH OWNER PRIOR TO LABELING. LABELING SCHEME SHALL BE SUBMITTED AS PART OF THE SUBMITAL DOCUMENTATION.

B. CONFIRM FINAL ROOM NUMBERS WITH OWNER PRIOR TO FINAL LABELING.

C. QUANTITY OF CABLES AND CONNECTOR TYPES ARE FOR REFERENCE ONLY. REFER TO SPECIFICATIONS AND RISER DIAGRAM FOR EXACT QUANTITIES AND CONNECTOR TYPE.

3 LABELING DETAILS
NOT TO SCALE



4 EXSITING MDF - TECHNOLOGY RACK ELEVATION
NOT TO SCALE

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PROFESSIONAL ENGINEER
8/21/2026

PROJECT NUMBER:
260060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

DATE ISSUED:	DRAWN BY:	CHECKED BY:
8/14/26	EAG	MLM

DRAWING TITLE:
TECHNOLOGY DETAILS

SHEET NUMBER:
T502

Autodesk Docs://26029 - City of Carmel Fire Station #46/26029 City of Carmel Fire Station #46 TECH v24.rvt
8/21/2026 7:32:08 AM

FOR REFERENCE ONLY

Electrician Rough In instructions:

Note: All locations subject to verification by FD.

- 2 ea. IP drops are to be provided in the IT Equipment Room to connect the fire station alerting system to the E911 dispatch center equipment headend.
- 4 ea.120 VAC NEMA 5-15R outlets are required in the 2nd floor IT Equipment room for sole use by the fire station alerting system.
- A ground point shall be provided in the IT equipment room to bond the fire station alerting system to.
- All cables to be ran with a minimum of 4' slack left above ceiling, with an additional 2' dropped down through hard pan ceilings, centered between joists, for all ceiling mounted equipment.
- Ceiling mounted speakers requires a minimum of 6" clearance above the ceiling to accommodate installation. Speakers to be centered between ceiling joists.
- Volume controls to be installed into 4x4 deep boxes with single gang mud rings.
- Strobe lights to be installed in a into 4x4 deep boxes with single gang mud ring. Strobe Lights to be wall mounted at 7' height.
- Doorbells to be installed in a 1X2 deep box.
- Locution Provided Zone trackers require 1 ea. 15A 120 VAC outlet in addition to dedicated CAT5 drop. See separately provided detailed installation and rough-in instructions.
- Locution Provided Red Lights to be installed in 4x4 deep boxes with a double gang mud ring. All other red lights to be installed directly to hard pan ceiling.
- No boxes required for ERS Wireless provided speakers or Night Vision Lights, just labeled cables hanging from ceiling/through walls.

ERS Wireless Provided Equipment

Drop Ceiling Speaker
Hard Pan Ceiling Speaker
Weatherproof Horn Speaker
Soundsphere Speaker
10W Volume Control
Blue Strobe Light
Blue Strobe Bar
Red Night Vision Light
Doorbell

ERS Cable Descriptions

Colors preliminary, dependent on availability. Final colors will be communicated with electrician upon material order being placed.

1. Home runse, each consisting of 1 pr 16 AWG shielded black. Home run to ERS Wireless provided terminal strips from ERS Wireless provided speakers.
2. Home runse, each consisting of 1 pr 16 AWG unshielded orange. Home run to ERS Wireless provided terminal strips from ERS Wireless provided NVI LEDs and Strobes
3. Home runse, each consisting of 1 pr 16 AWG unshielded neutral. Home run to ERS Wireless provided terminal strip for ERS Wireless provided doorbell buttons

DISCLAIMER REGARDING LOCUTION EQUIPMENT AND CABLING

ERS Wireless is providing this set of drawings with ERS Wireless equipment and cabling with the assumed Locution provided equipment and cabling. In no way is ERS Wireless responsible for accuracy of ultimate equipment count or circuit plan of cabling. ERS Wireless is providing this overlay as a courtesy to the fire department in order for their electrician low voltage contractors to rough in and pull cables during construction phase in the absence of Locution prints. ERS Wireless has made every effort to make these prints as accurate as possible.

Projected Locution Provided Equipment

Locution Speaker (type/model tbd)
Locution NVI Light (type/model tbd)
Locution Volume Control (type/model tbd)
Locution Day/Night Switch (type/model tbd)
Locution Zone Tracker (type/model tbd)
Locution ZoneCabinet (type/model tbd)

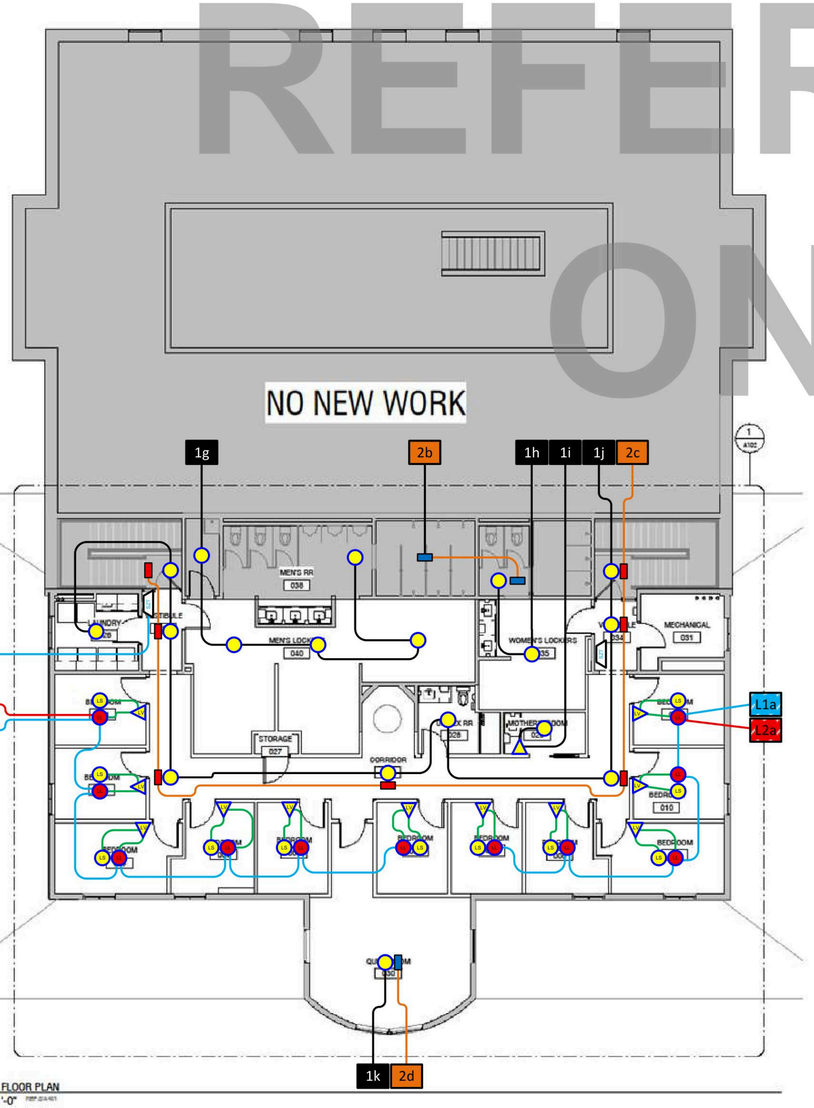
Projected Locution Cable Descriptions

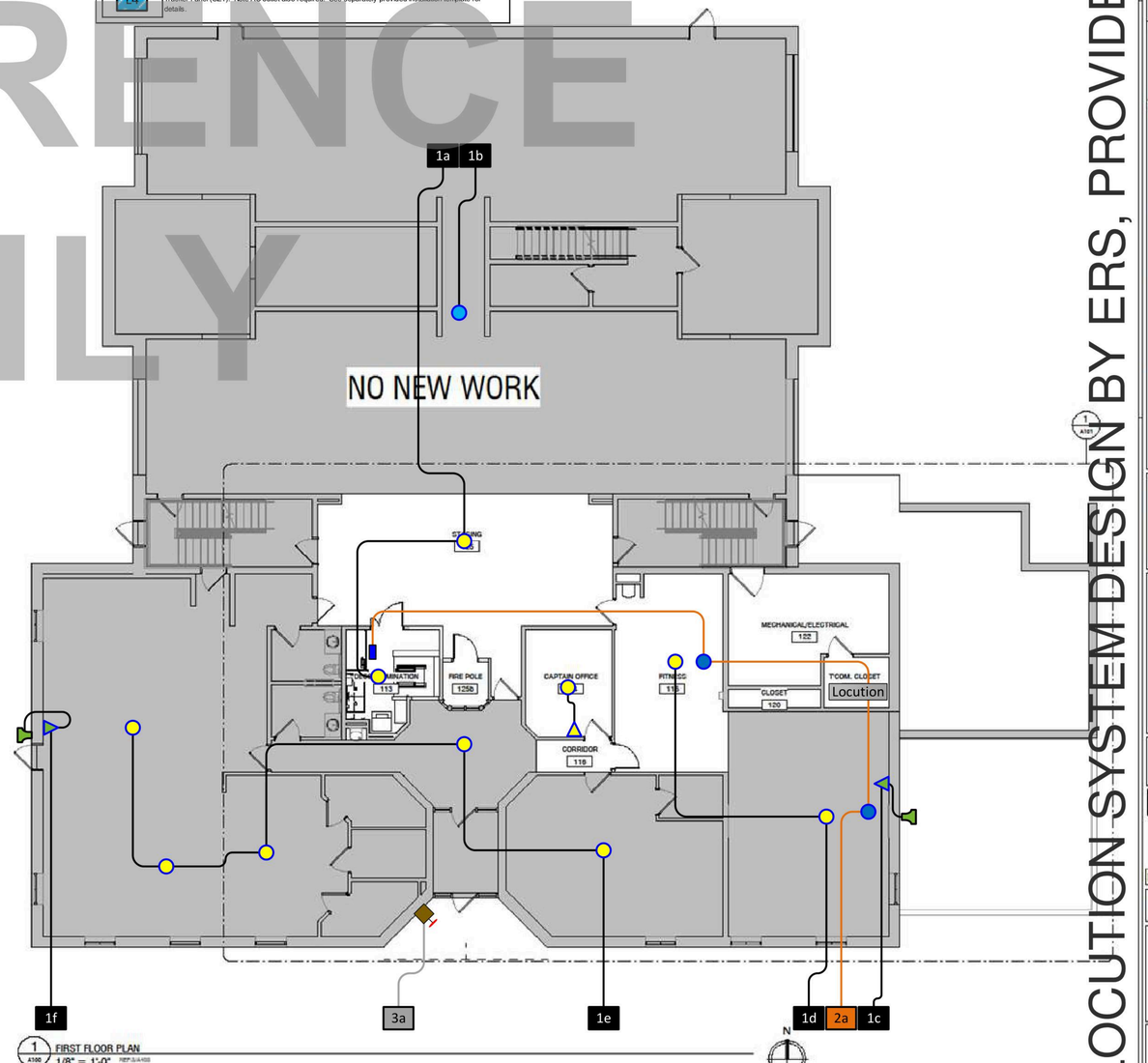
L1. Home runs, each consisting of 1 a. CAT5e LOCUTION provided cable to LOCUTION equipment cabinet. 1 ea. CAT5e jumper to adjacent dorm room EZ NVI. #16 AWG GREEN striped LOCUTION supplied speaker wire to from NVI to Volume Control, to dorm speaker.

L2. Home runs, each consisting of one (1) #16 AWG RED striped LOCUTION supplied wire to equipment cabinet from EZ NVI.

L3. Home runs, each consisting of one (1) #16 AWG PURPLE striped LOCUTION supplied wire to equipment cabinet from manual DAY/NIGHT switch.

L4. Home runs, each consisting of one (1) CAT 5e data cable to NETWORK SWITCH from Station Zone Tracker Panel (SZT). Note AC outlet also required. See separately provided installation template for details.





LOCUTION SYSTEM DESIGN BY ERS, PROVIDED 6/11/2026

Etica GROUP

Renovation of Station 42
3610 W. 106th St.
Carmel, IN 46032

City of Carmel
One Civic Square
Carmel, IN 46032

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PROFESSIONAL SEAL:

PROJECT NUMBER:
250060

REVISION SCHEDULE

#	DESCRIPTION	DRAWN BY	DATE ISSUED

ISSUED FOR CONSTRUCTION

DATE ISSUED:	DRAWN BY:	CHECKED BY:

DRAWING TITLE:
OVERALL PLANS

SHEET NUMBER:
A100

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