WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

CONSTRUCTION DOCUMENTS 4/17/26

SYMBOLS & TAGS LEGEND

TAG	DESCRIPTION
1 100A	DOOR TAG
CASEWORK SERIES, NUMBER OF SHELVES, CABINET DEPTH, 402, 30.00, 24.00, 84.00, CABINET WIDTH, CABINET HEIGHT	CASEWORK TAG *AS OUTLINED IN THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS* *MINIMUM CLEAR CABINET DEPTH DIMENSION = DEPTH LESS 1"*
EQ-XX	SPECIALTY EQUIPMENT TAG
1 A	COLUMN LINE DESIGNATION TAG
REFERENCE 0'-0" P T	LEVEL ELEVATION TAG
P T	NORTH ARROW TAG T = TRUE NORTH P = PROJECT NORTH
ROOM 101	ROOM NAME & NUMBER TAG
1 A101	SECTION TAG
1 A101	CALLOUT / DETAIL
0'-0"	SPOT ELEVATION TAG
1 DRAWING TITLE, DRAWING SCALE	DETAIL / DRAWING TITLE TAG
CIG-12 1'-0" TYPE, HEIGHT	CEILING TAG
99	PARTITION TAG
	MATERIAL TAG
H	WINDOW TAG
12, 6	SLOPE ANNOTATION
1 A101, 0 0.0 0	ELEVATION TAG
0 NEW CONSTRUCTION, 0 DEMOLITION	SPECIFIC NOTE

KEY TO MATERIALS

SECTION PATTERN	DESCRIPTION
	BRICK
	CMU MASONRY
	CONCRETE
	POROUS FILL
	EARTH
	PLYWOOD
	GYPSUM BOARD
	RIGID INSULATION
	BATT INSULATION
	END GRAIN LUMBER
	WOOD BLOCK OR SHIM
	FINISH WOOD

COMMON ABBREVIATIONS

SYMBOLS
& - AND
@ - AT
℄ - DIAMETER
□ - SQUARE

A
AB - ANCHOR BOLT
ABV - ABOVE
ACOUST - ACOUSTICAL
ACT - ACOUSTIC CEILING TILE
AFF - ABOVE FINISH FLOOR
AHJ - AUTHORITY HAVING JURISDICTION
ALUM - ALUMINUM
AP - ACCESS PANEL
APPROX - APPROXIMATELY
ARCH - ARCHITECTURAL

B
B.C. - BOTTOM CHORD
BLK - BLOCK
BLDG - BUILDING
BLKG - BLOCKING
BLKHD - BULKHEAD
BM - BEAM
B.O. - BOTTOM OF
BOD - BASIS OF DESIGN
BOT - BOTTOM
B.R. - BULLET RESISTANT
BRNG - BEARING

C
℄ - CENTER LINE
CFCI - CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI - CONTRACTOR FURNISHED, OWNER INSTALLED
CFLS - COUNTER FLASHING
CJ - CONTROL JOINT
CL - CLOSET
CLG - CEILING
CMU - CONCRETE MASONRY UNIT
CND - CONDUIT
COL. - COLUMN
COOR - COORDINATE
CONC - CONCRETE
CONSTR - CONSTRUCTION
CONT - CONTINUOUS
C.T. / CT - CERAMIC TILE
CPT - CARPET / CARPET TILE
CTSK - COUNTERSUNK
CU - CUBIC
CU FT - CUBIC FOOT
CU YD - CUBIC YARD

D
D - DEEP / DEPTH
DEG - DEGREE
DIA - DIAMETER
DIM - DIMENSION
DL - DEAD LOAD
DMPR - DAMPER
DN - DOWN
DR - DOOR
DS - DOWNSPOUT
DTL - DETAIL
DWG - DRAWING

E
EA - EACH
EIFS - EXTERIOR INSULATON AND FINISHING SYSTEM
ELEC - ELECTRICAL
EL - ELEVATION
ELEV - ELEVATION
ELMA - ELEVATOR MACHINE ROOM
EJ - EXPANSION JOINT
ENT - ENTRANCE, ENTRY
EQ - EQUAL
EST - ESTIMATE
ETR - EXISTING TO REMAIN
EW - EACH WAY
EXST - EXISTING
EXT - EXTERIOR
EXP - EXPOSED
EXP JT - EXPANSION JOINT

F
F - FAHRENHEIT
FD - FLOOR DRAIN
F.E. - FIRE EXTINGUISHER
F.E.C. - FIRE EXTINGUISHER CABINET
FF - FINISHED FLOOR
FF EL - FINISHED FLOOR ELEVATION
FG - FINISHED GRADE
FHY - FIRE HYDRANT
FDC - FIRE DEPARTMENT CONNECTION
FIN - FINISH
FIN FL - FINISHED FLOOR
FL - FLOOR
FLEX - FLEXIBLE
FLUOR - FLUORESCENT
FND - FOUNDATION
FPM - FEET PER MINUTE
FRT - FIRE RETARDANT TREATED
FSK - FOIL SCRIM KRAFT
FT - FEET, FOOT
FT - FLOOR TRANSITION
FTG - FOOTING

G
GA - GAGE, GAUGE
GALV - GALVANIZED
GL - GLASS, GLAZING
GND - GROUND
GRTG - GRATING
GWB - GYPSUM WALL BOARD

H
H - HIGH / HEIGHT
HC - HANDICAPPED
HD - HEAD
HM - HOLLOW METAL
HORIZ - HORIZONTAL
HR - HOUR
HT - HEIGHT

I
ID - INSIDE DIAMETER
IN - INCH
INFO - INFORMATION
INSUL - INSULATION

J
JB - JUNCTION BOX
JM - JAMB
JST - JOIST
JT - JOINT

L
LG - LONG
LL - LIVE LOAD
LSC - LIFE SAFETY CODE
LTG - LIGHTING

M
MACH - MACHINE
MAT'L - MATERIAL
MAX - MAXIMUM
MBT - MARBLE THRESHOLD
MECH - MECH
MEP - MECHANICAL / ELECTRICAL / PLUMBING
MFGR - MANUFACTURER
MH - MANHOLE
MIN - MINIMUM
MO - MASONRY OPENING
MSNRY - MASONRY
M.T. - METAL THRESHOLD
MTL - METAL
MTD - MOUNTED

N
NA - NOT APPLICABLE
NIC - NOT IN CONTRACT
NO - NUMBER
NTS - NOT TO SCALE

O
O/C - ON CENTER
OD - OUTSIDE DIAMETER
OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED, OWNER INSTALLED
OPNG - OPENING
OPP - OPPOSITE
OPP HND - OPPOSITE HAND
OV - OVER
OVHD - OVERHEAD

P
P.LAM - PLASTIC LAMINATE
PLY - PLYWOOD
PLYWD - PLYWOOD
PNLBD - PANELBOARD
PNT/ PT - PAINT
POLYISO - POLYISOCYANURATE
PRESS - PRESSURE
PROJ - PROJECT
PROP - PROPERTY
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE INCH
PT - PRESSURE TREATED
PTD - PAINTED
PVC - POLYVINYL CHLORIDE
PVMT - PAVEMENT
PWT - PREFABRICATED WOOD TRUSS

R
R - RADIUS
RCP - REFLECTED CEILING PLAN
REINF - REINFORCING, REINFORCED
RES - RESINOUS
REQD - REQUIRED
REV - REVISION
RGD - RIGID
RM - ROOM
RO - ROUGH OPENING
RST - REINFORCING STEEL

S
SB - SMART BOARD
SCHED - SCHEDULE
SD - STORM DRAIN
SECT - SECTION
SF - SQUARE FOOT
SI - SQUARE INCH
SIM - SIMILAR
SLP - SLOPE
SPCL - SPECIAL
SPEC - SPECIFICATIONS
SPLY - SUPPLY
SQ - SQUARE
SS - STAINLESS STEEL
ST - STREET
STD - STANDARD
STL - STEEL
STOR - STORAGE
STRUCT - STRUCTURAL
SURF - SURFACE
SUSP - SUSPENDED
SW - SWITCH
SYS - SYSTEM

T
T & B - TOP AND BOTTOM
T.B. - TACK BOARD
T.B.D. - TO BE DETERMINED
TEMP - TEMPERATURE
THK - THICK
THRES - THRESHOLD
T&G - TONGUE & GROOVE
T0 - TOP OF
TOB - TOP OF BEARING POINT
TOC - TOP OF CONCRETE
TOF - TOP OF FOOTING
TOM - TOP OF MASONRY
TOP - TOP OF PAVEMENT, PARAPET
TOS - TOP OF STEEL
TRTD - TREATED
T.S. - TRANSITION STRIP
TYP - TYPICAL

U
UGND - UNDERGROUND
UL - UNDERWRITERS LAB
UNO - UNLESS NOTED OTHERWISE
UON - UNLESS OTHERWISE NOTED

V
VB - VAPOR BARRIER
VCT - VINYL COMPOSITION TILE
VERT - VERTICAL
VIF - VERIFY IN FIELD
VOL - VOLUME

W
W - WIDE / WIDTH
W/ - WITH
W/0 - WITHOUT
W.B. - WHITEBOARD
WD - WOOD
WR - WATER RESISTANT
WTRPRF - WATERPROOF
WWF - WELDED WIRE FABRIC
WWM - WELDED WIRE MESH

THIS LIST OF ABBREVIATIONS IS A GUIDE TO ABBREVIATIONS WHICH MAY BE USED IN THESE DOCUMENTS. ABBREVIATIONS NOT LISTED MAY ALSO BE USED.

PROJECT TEAM

ARCHITECT
MANNS WOODWARD STUDIOS
8098 SANDPIPER CIRCLE, SUITE H,
NOTTINGHAM, MD 21236
PHONE: 410-344-1460
FAX: 443-403-2460

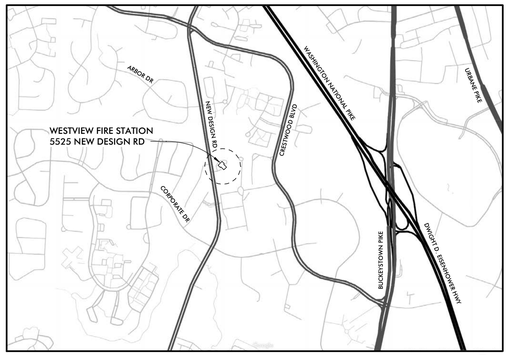
MEP ENGINEER
DEDC LLC
315 SOUTH CHAPEL STREET
NEWARK, DE 19711
PHONE: 267-804-7286

OWNER
FREDERICK COUNTY DIVISION OF PUBLIC WORKS
155 MONTEVUE LANE, SUITE 200
FREDERICK, MD, 21702.
CONTACT : IVEY BROWN
PHONE: 301-600-6648

STRUCTURAL ENGINEER
CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE SUITE 102
HUNT VALLEY, MD 21031
PHONE: 410-785-7423

CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

THE INTENT OF THE CONSTRUCTION DRAWINGS AND THE CONSTRUCTION SPECIFICATIONS/PROJECT MANUAL IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONSTRUCTION DRAWINGS AND THE CONSTRUCTION SPECIFICATIONS/PROJECT MANUAL ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL; PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND THE CONSTRUCTION SPECIFICATIONS/PROJECT MANUAL AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED/INTENDED RESULTS. IN THE CASE OF INCONSISTENCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE CONSTRUCTION SPECIFICATIONS/PROJECT MANUAL OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECTS INTERPRETATION.



VICINITY MAP
NOT TO SCALE

DRAWING INDEX

SHEET NUMBER	SHEET NAME
GENERAL / CODE	
G000	COVER SHEET
G001	CODE ANALYSIS & DIAGRAM
G010	TYPICAL ACCESSIBILITY GUIDELINES
G011	EXISTING FLOOR PLAN
ARCHITECTURAL - DEMOLITION	
AD100	DEMO FLOOR PLAN
AD101	DEMO REFLECTED CEILING PLAN
ARCHITECTURAL - NEW WORK	
A001	ARCHITECTURAL SITE DIAGRAM
A100	ASSEMBLY TYPES & NOTES
A101	REFERENCE PLAN
A102	DIMENSION PLAN
A103	FINISH PLAN
A104	FF&E PLAN
A200	BUILDING ELEVATIONS
A300	BUILDING SECTIONS
A301	BUILDING SECTIONS
A400	WALL SECTIONS
A600	DOOR/WINDOW SCHEDULE & DETAILS
A700	ENLARGED PLANS & INT. ELEVATIONS
A701	ENLARGED PLANS & INT. ELEVATIONS
A702	ENLARGED PLANS & INT. ELEVATIONS
A703	INTERIOR DETAILS
A704	INTERIOR DETAILS
A800	REFLECTED CEILING PLAN
STRUCTURAL - GENERAL	
S001	GENERAL NOTES
S002	GENERAL NOTES & SCHEDULES
STRUCTURAL - NEW WORK	
S101	FOUNDATION/FIRST FLOOR PLAN
S102	MEZZANINE FRAMING PLAN
S301	FOUNDATION DETAIL AND SECTIONS
S302	MASONRY AND LIGHT GAUGE DETAILS
S303	STEEL DETAILS AND SECTIONS
MECHANICAL - GENERAL	
M-000	MECHANICAL TITLE SHEET
MECHANICAL - DEMOLITION	
MD111	MECHANICAL DEMOLITION PLAN - SOUTH
MD112	MECHANICAL DEMOLITION PLAN - NORTH
MECHANICAL - NEW WORK	
M-001	HVAC ZONE PLAN
M-111	MECHANICAL NEW WORK PLAN - NORTH
M-112	MECHANICAL NEW WORK PLAN - SOUTH
M-113	MECHANICAL NEW WORK PLAN - EAST
M-114	MECHANICAL EQUIPMENT CEILING PLAN
M-121	MECHANICAL FLOOR PLAN - ROOF
M-211	MECHANICAL PIPING PLAN - NORTH
M-212	MECHANICAL PIPING PLAN - SOUTH
M-213	MECHANICAL PIPING PLAN - EAST
M-601	MECHANICAL SCHEDULES AND DETAILS
M-602	MECHANICAL SCHEDULES AND DETAILS
M-603	MECHANICAL SCHEDULES AND DETAILS

DRAWING INDEX

SHEET NUMBER	SHEET NAME
PLUMBING - GENERAL	
P-000	PLUMBING TITLE SHEET
PLUMBING - DEMOLITION	
PD111	FIRST FLOOR PLUMBING DEMOLITION PLAN - SOUTH
PD112	FIRST FLOOR PLUMBING DEMOLITION PLAN - NORTH
PD113	FIRST FLOOR PLUMBING DEMOLITION PLAN - EAST
PLUMBING - NEW WORK	
P-111	FIRST FLOOR PLUMBING NEW WORK PLAN - SOUTH
P-112	FIRST FLOOR PLUMBING NEW WORK PLAN - NORTH
P-113	FIRST FLOOR PLUMBING NEW WORK PLAN - EAST
P-401	ENLARGED PLUMBING PLANS
P-601	PLUMBING SCHEDULES AND DETAILS
FIRE PROTECTION - GENERAL	
F-000	FIRE PROTECTION TITLE SHEET
FIRE PROTECTION - NEW WORK	
F-111	FIRST FLOOR FIRE PROTECTION PLAN
ELECTRICAL - GENERAL	
E-000	ELECTRICAL TITLESHEET
ELECTRICAL - DEMOLITION	
ED-101	FIRST FLOOR AND MEZZANINE ELECTRICAL PARTIAL DEMOLITION PLAN
ELECTRICAL - NEW WORK	
E-101	ELECTRICAL SITE PLAN
E-201	FIRST FLOOR NEW WORK POWER PLAN
E-202	MEZZANINE NEW WORK POWER AND LIGHTING PLANS
E-301	FIRST FLOOR NEW WORK LIGHTING PLAN
E-601	ELECTRICAL PANEL SCHEDULES AND LIGHTING SCHEDULE
E-602	ELECTRICAL PANELS SCHEDULES & DETAILS
E-603	ELECTRICAL DETAILS
FIRE ALERT - NEW WORK	
FSA-1	FIRE ALERT NOTES
FSA-2	FIRE ALERT SYSTEM OPERATIONS 1
FSA-3	FIRE ALERT SYSTEM OPERATIONS - 2
FSA-4	FIRE ALERT SYMBOLS 1
FSA-5	FIRE ALERT SYMBOLS 2
FSA-6	FIRE ALERT - SCOPE OF WORK
FSA-7	FIRE ALERT - EXTERIOR DEVICES
FSA-8	FIRE ALERT - APPARATUS BAYS
FSA-9	FIRE ALERT - BUNKROOM AREA
FSA-10	FIRE ALERT - KITCHEN/DAYROOM
FSA-11	FIRE ALERT - GYM
FSA-12	FIRE ALERT - OFFICE
FSA-13	FIRE ALERT - TOILETS
FSA-14	FIRE ALERT - TRAILERS
FSA-15	FIRE ALERT - MCLs & DISPLAYS
FSA-16	ALERTING DISPLAY DETAILS
FSA-17	FIRE ALERT - MISC DETAILS

REVISION SCHEDULE

No.	DATE	DESCRIPTION

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

COVER SHEET

SHEET NUMBER:
G000

4/17/2026 2:51:37 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

CODE ANALYSIS - SUMMARY

PROJECT	APPLICABLE CODES		
WESTVIEW FIRE STATION 31 INTERIOR RENOVATION	NFPA 101: LIFE SAFETY INTERNATIONAL EXISTING BUILDING CODE INTERNATIONAL BUILDING CODE INTERNATIONAL MECHANICAL CODE NATIONAL ELECTRIC CODE INTERNATIONAL PLUMBING CODE INTERNATIONAL ENERGY CODE	2018 2021 2021 2021 2023 2021 2021	**ALTERATION LEVEL 2** (<50% OF BLDG AREA) EXISTING STATION GSF: 10,749 SF AREA OF RENOVATION: 3,984 SF 37% OF EXISTING STATION

PROJECT DESCRIPTION

PROJECT INCLUDES AN **ALTERATION LEVEL 2** INTERIOR RENOVATION.
PARTIAL DEMOLITION OF INTERIOR SPACES WILL OCCUR. WORK INCLUDES THE RECONFIGURATION OF SOME INTERIOR SPACES AND THE APPLICATION OF NEW FINISHES AS OUTLINED IN THE DRAWINGS. A SYSTEMIC RENOVATION WILL BE EXECUTED INCLUDING MECHANICAL, PLUMBING AND ELECTRICAL WORK.
EXTERIOR WORK INCLUDES INFILLING AREAS OF WALL WHERE WINDOWS OR DOORS ARE BEING REMOVED.
THERE IS AN EXISTING SPRINKLER SYSTEM THAT WILL BE ALTERED TO INCORPORATE THE SCOPE OF NEW WORK.

THE STATION WILL REMAIN IN OPERATION.
TEMPORARY TRAILERS WILL HOUSE STAFF. FIRE AND EMS APPARATUS WILL BE HOUSED IN THE APPARATUS BAY DURING CONSTRUCTION, BUT STAFF WILL ONLY OCCUPY THE APPARTUS BAY AND ONLY BRIEFLY WHILE TRANSITING WHILE RESPONDING TO EMERGENCY CALLS.

NFPA 101: LIFE SAFETY 2018

OCCUPANCY CLASSIFICATIONS - 6.1	HAZARD CLASSIFICATION - 6.2.2
MIXED OCCUPANCIES BUSINESS: OFFICES & ASSOCIATED SPACES RESIDENTIAL: LODGING OR ROOMING HOUSE STORAGE: APPARATUS BAYS & ASSOCIATED SPACES	ORDINARY HAZARD
CONSTRUCTION TYPE - TABLE A8.2.1.2	**FIRE-RES. REQUIREMENTS FOR BLDG ELEMENTS - TABLE A8.2.1.2**
CONSTRUCTION TYPE: II(000), FULLY SPRINKLERED, MIXED OCCUPANCIES	ALL BUILDING ELEMENTS ARE NOT REQUIRED TO BE RATED
CONSTRUCTION TYPE LIMITATIONS	**OCCUPANT LOAD FACTORS - TABLE 7.3.1.2**
BUSINESS: NO SPECIAL REQUIREMENTS	R-2: 1,571SF - 200GROSS = 12OCC B: 2,868SF - 150GROSS = 24OCC S-2: 5,436SF - 300GROSS = 21OCC
EXIT SEPARATION DISTANCE - 7.5.1.3.3	**DETECTION AND ALARM**
WHERE EQUIPPED THOUGH-OUT WITH SPRINKLER SYSTEM, THE EXIT DOOR SEPARATION SHALL NOT BE LESS THAT ONE-THIRD OF THE DIAGONAL DIMENSION OF THE AREA SERVED.	39.3.4.1 - A FIRE ALARM IS REQUIRED AND CURRENTLY EXISTS WITHIN THE FACILITY.

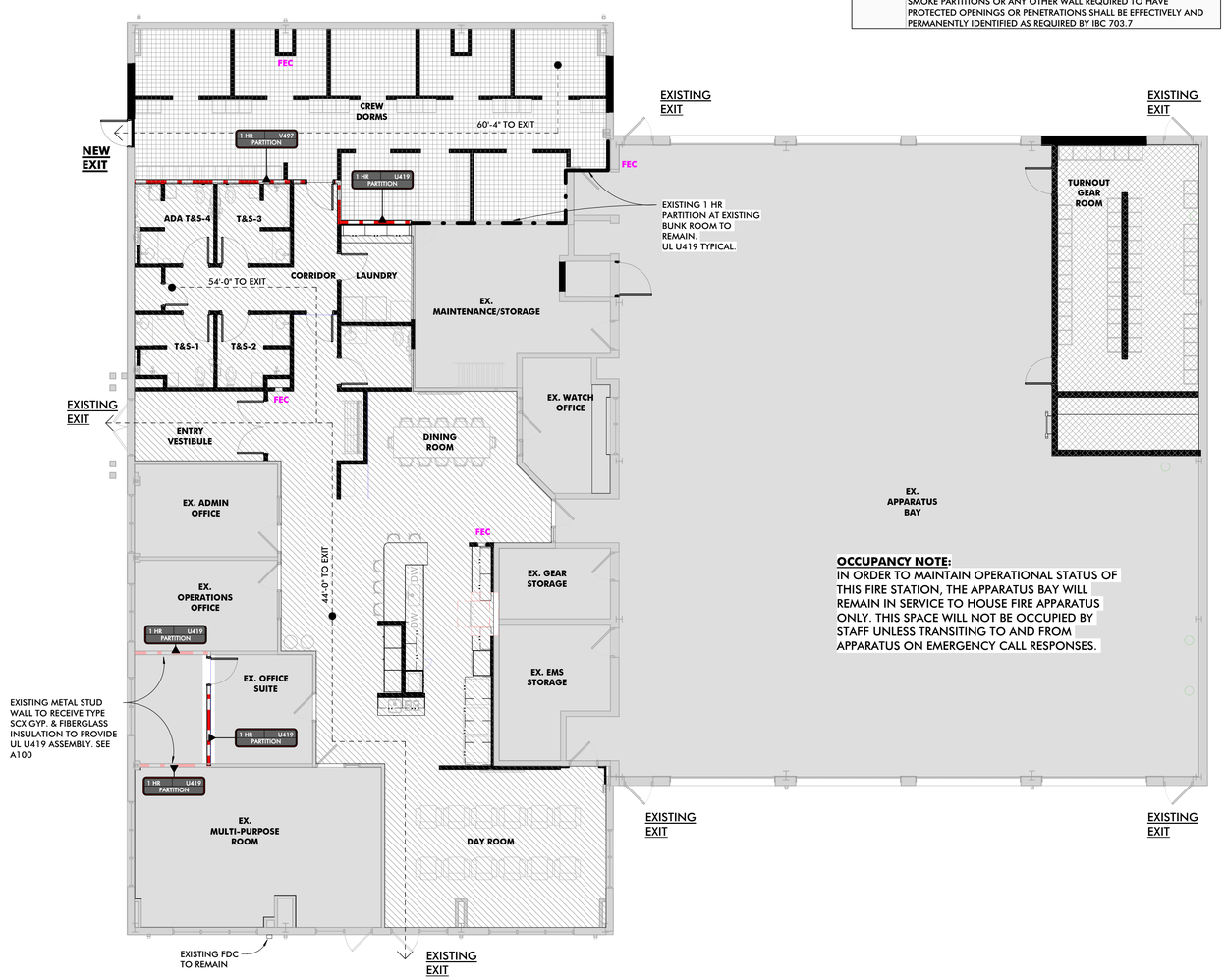
COMMON PATH OF EGRESS	TRAVEL DISTANCE	DEAD-END CORRIDORS
BUSINESS: ALLOWABLE = 100'-0" (39.2.5.3.1)	BUSINESS: ALLOWABLE = 300'-0" (39.2.6.3)	BUSINESS: ALLOWABLE = 50'-0" (39.2.5.2)

INTERNATIONAL EXISTING BUILDING CODE 2021

USE & OCCUPANCY CLASSIFICATIONS - IBC 304.1	WORK AREA SF & PERCENTAGE - IEBC 501.2
CURRENT USE & PROPOSED USE: BUSINESS	TOTAL EXISTING FLOOR AREA IS 10,749 SF AND THE TOTAL WORK AREA IS 37% OF THE TOTAL BUILDING.
COMPLIANCE METHOD - IEBC 301 & 503	**BUILDING ELEMENTS & MATERIALS - IEBC 702**
THIS ALTERATION IS A LEVEL 2. THE WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 & 8.	ALL NEW WORK SHALL COMPLY WITH THE REQUIREMENTS IN THE IBC, IECC, IMC, & IPC, AS APPLICABLE.
COMPLIANCE - IEBC 801.3	
ALL NEW CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC EXCEPTIONS 1. WINDOWS DO NOT NEED TO COMPLY WITH THE LIGHT & VENTILATION REQUIREMENTS OF THE IBC. 2. NEWLY INSTALLED ELECTRICAL EQUIPMENT SHALL COMPLY WITH 808. 3. DEAD END CORRIDORS SHALL COMPLY WITH 805.6. 4. THE MIN. CEILING HEIGHT SHALL BE 7'-0".	
MEANS OF EGRESS - IEBC 805.1	**ACCESSIBLITY - IEBC 806 & 705**
THIS SECTION DOES NOT APPLY TO THIS PROJECT BECAUSE THERE IS ONLY A SINGLE TENANT WITHIN THE WORK AREA.	ALL NEW WORK SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS. ALL EXISTING ELEMENTS TO REMAIN CURRENTLY COMPLY.
ELECTRICAL - IEBC 808	**MECHANICAL - IEBC 809**
ALL NEWLY INSTALLED ELECTRICAL EQUIPMENT & WIRING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 70.	ALL NEWLY INSTALLED MECHANCIAL WORK SHALL COMPLY WITH THE IMC.
PLUMBING - IEBC 810	**ENERGY CONSERVATION - IEBC 707 & 811**
ALL NEWLY INSTALLED MECHANCIAL WORK SHALL COMPLY WITH THE IPC.	THE ALTERATIONS SHALL CONFORM TO THE ENERGY REQUIREMENTS OF THE IECC AS THEY RELATE TO NEW CONSTRUCTION ONLY.

INTERNATIONAL BUILDING CODE 2021

USE CLASSIFICATIONS - CHAPTER 3	OCCUPANCY CLASSIFICATIONS - TABLE 1004.1.2
MIXED USE: R2, S2, B	BUSINESS AREAS: OFFICES AND ASSOCIATED SPACES ACCESSORY
CONSTRUCTION TYPE - CH.6	
MAIN BUILDING CONSTRUCTION TYPE: IIB FULLY-SPRINKLERED NON-SEPARATED MIXED OCCUPANCIES (IBC SECTION 508.3)	
OCCUPANT LOAD FACTORS - TABLE 1004.1.2	**EXIT SEPARATION DISTANCE - 1007.1.1**
ACCESSORY STOR/MECH.EQUIP 300 GSF BUSINESS 100 GSF	IN BUILDINGS WITH AN AUTOMATIC SPRINKLER SYSTEM THE EXIT SEPARATION SHALL NOT BE LESS THAN 1/3 THE MAXIMUM DIAGONAL
SECONDARY MEANS OF ESCAPE - 26.2.1.2 NFPA 101	
IN ADDITION TO THE PRIMARY ROUTE, EACH SLEEPING ROOM AND LIVING AREA SHALL HAVE A SECOND MEANS OF ESCAPE IN ACCORDANCE WITH 24.2.2, UNLESS THE SLEEPING ROOM OR LIVING AREA HAS A DOOR LEADING DIRECTLY OUTSIDE THE BUILDING WITH ACCESS TO THE FINISHED GROUND LEVEL (IN ACCORDANCE WITH NFPA 101 24.2.2.1.2)	



2 CODE DIAGRAM
1/8" = 1'-0"

LEGEND - CODE PLAN LEGEND

	ILLUMINATED "EXIT" SIGN
	ILLUMINATED "EXIT" SIGN W/ DIRECTION INDICATOR
1 HR UL#409 SMOKE PARTITION	RATED WALL TAG
FEC	FIRE EXTINGUISHER & CABINET
	1 HOUR RATED PARTITION
	2 HOUR RATED PARTITION
	TRAVEL DISTANCE
	SEPARATION DISTANCE

	DORMITORY OCCUPANCY ALTERATION LEVEL 2
	BUSINESS OCCUPANCY ALTERATION LEVEL 2
	STORAGE OCCUPANCY ALTERATION LEVEL 2
	ALTERATION LEVEL 1 (60 PERCENT OF THE BUILDING AREA)

GENERAL CODE PLAN NOTES

1	FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED AS REQUIRED BY IBC 703.7

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

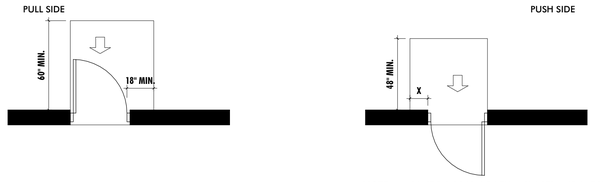
SHEET REVISION SCHEDULE:
No. DATE

CODE ANALYSIS & DIAGRAM

SHEET NUMBER:
G001

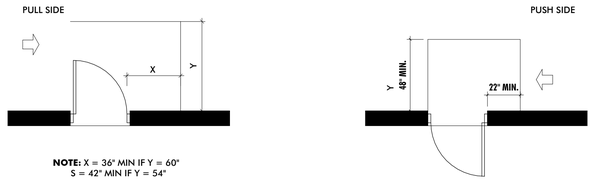
4/17/2026 1:38:35 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



NOTE: x = 12" IF DOOR HAS BOTH A CLOSER AND LATCH.

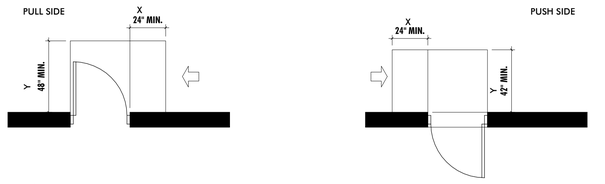
(a)
Front Approaches - Swinging Doors



NOTE: X = 36" MIN IF Y = 60"
S = 42" MIN IF Y = 54"

NOTE: y = 48" MINIMUM IF DOOR HAS BOTH A CLOSER AND LATCH.

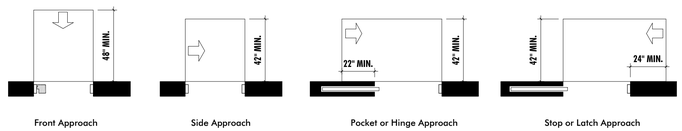
(b)
Hinge Side Approaches - Swinging Doors



NOTE: y = 54" MINIMUM IF DOOR HAS CLOSER

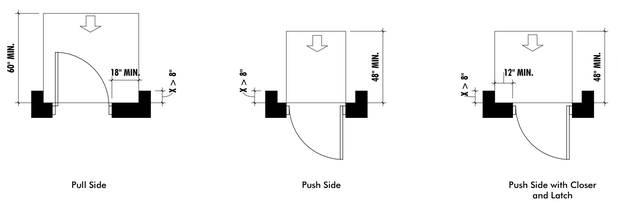
NOTE: y = 48" MINIMUM IF DOOR HAS CLOSER.

(c)
Latch Side Approaches - Swinging Doors



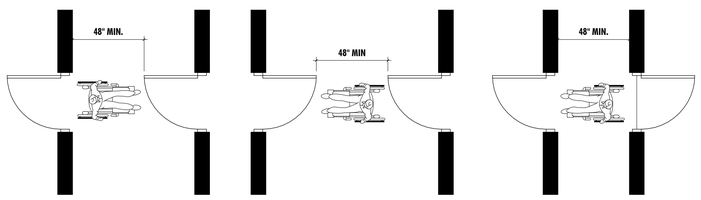
Front Approach | Side Approach | Pocket or Hinge Approach | Stop or Latch Approach

(d)
Doorways without Doors



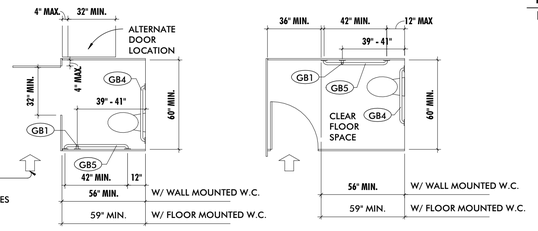
Pull Side | Push Side | Push Side with Closer and Latch

(e)
Recessed Doors and Gates



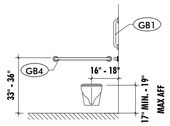
Two Hinged Doors in Series

DOOR CLEARANCES (TYPICAL)
NOT TO SCALE

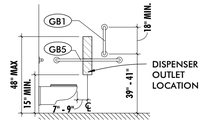


STANDARD STALL

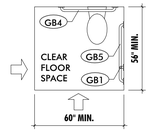
STANDARD STALL (END OF ROW)

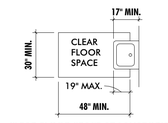


REAR WALL OF STANDARD STALL

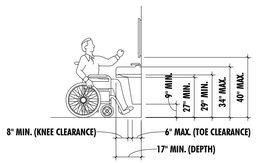


SIDE WALLS



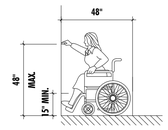


CLEAR FLOOR SPACE AT LAVATORIES

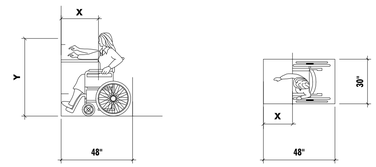


LAVATORY CLEARANCES

TOILET ROOM CLEARANCES (TYPICAL)
NOT TO SCALE

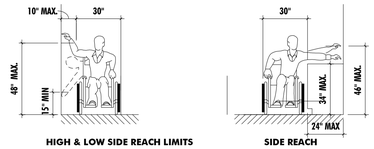


HIGH FORWARD REACH LIMIT (FRONT APPROACH)



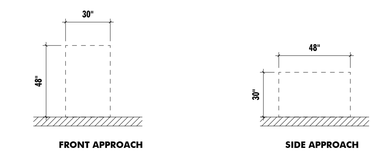
MAXIMUM FORWARD REACH OVER AN OBSTRUCTION

NOTE: WHEN X IS >20 INCHES MAX, Y SHALL BE 48 INCHES MAX
WHEN X IS 20-25 INCHES MAX, Y SHALL BE 44 INCHES MAX



HIGH & LOW SIDE REACH LIMITS

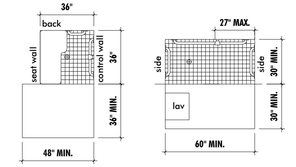
SIDE REACH

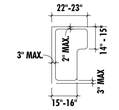


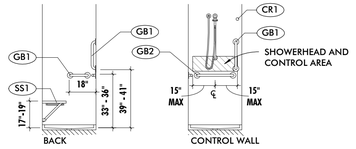
FRONT APPROACH

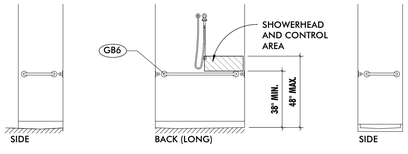
SIDE APPROACH

REACH RANGES & APPROACHES (TYPICAL)
NOT TO SCALE



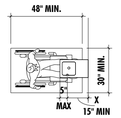




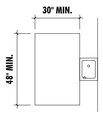


NOTE: SHOWER HEAD AND CONTROL AREA MAY BE ON BACK (LONG) WALL (AS SHOWN) OR ON EITHER SIDE WALL.

SHOWERS (TYPICAL)
NOT TO SCALE



CLEAR FLOOR SPACE

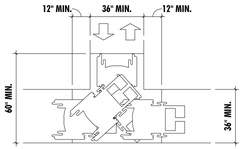


FREE STANDING FOUNTAIN OR COOLER

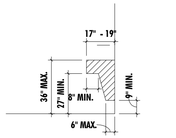
DRINKING FOUNTAINS (TYPICAL)
NOT TO SCALE



67 INCH - DIAMETER SPACE



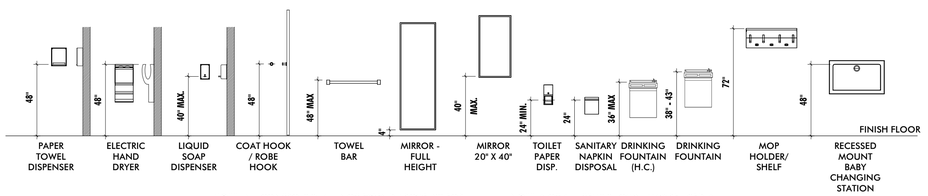
T - SHAPED SPACE FOR 180 DEGREE TURNS



ALLOWABLE PROTRUSIONS INTO WHEELCHAIR SPACE

TAG	FIXTURE/ACCESSORY
GB1	GRAB BAR - 18"
GB2	GRAB BAR - 24"
GB3	GRAB BAR - 30"
GB4	GRAB BAR - 36"
GB5	GRAB BAR - 42"
GB6	GRAB BAR - 48"
CR1	SHOWER CURTAIN ROD
SS1	FOLDING SHOWER SEAT

FLOOR CLEARANCES (TYPICAL)
NOT TO SCALE



NOTE: ALL CONTROLS SHALL NOT EXTEND ABOVE 48" FOR FRONT APPROACH & 54" FOR SIDE APPROACH. (SEE REACH RANGE DIAGRAMS)

NOTE: NOT ALL ITEMS SHOWN MAY BE USED IN THIS BUILDING.

TYPICAL ACCESSIBLE MOUNTING HEIGHTS
NOT TO SCALE

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

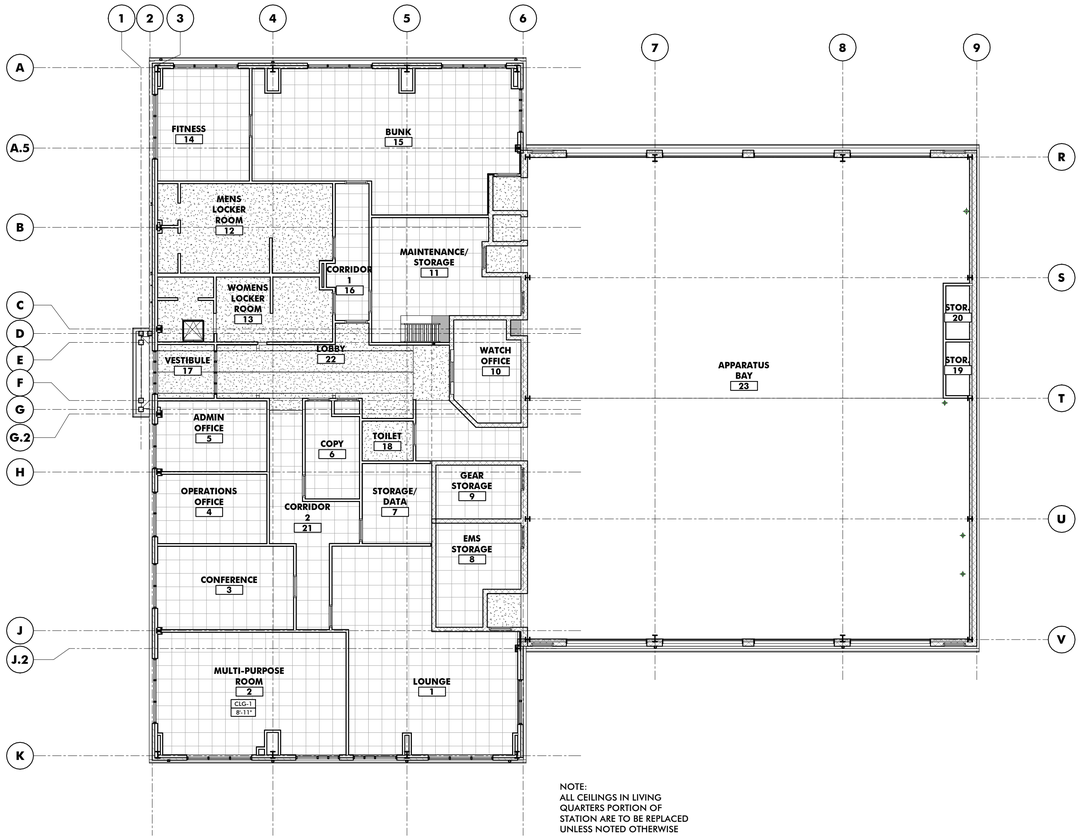
SHEET REVISION SCHEDULE:
No. DATE

TYPICAL ACCESSIBILITY GUIDELINES

SHEET NUMBER:
G010

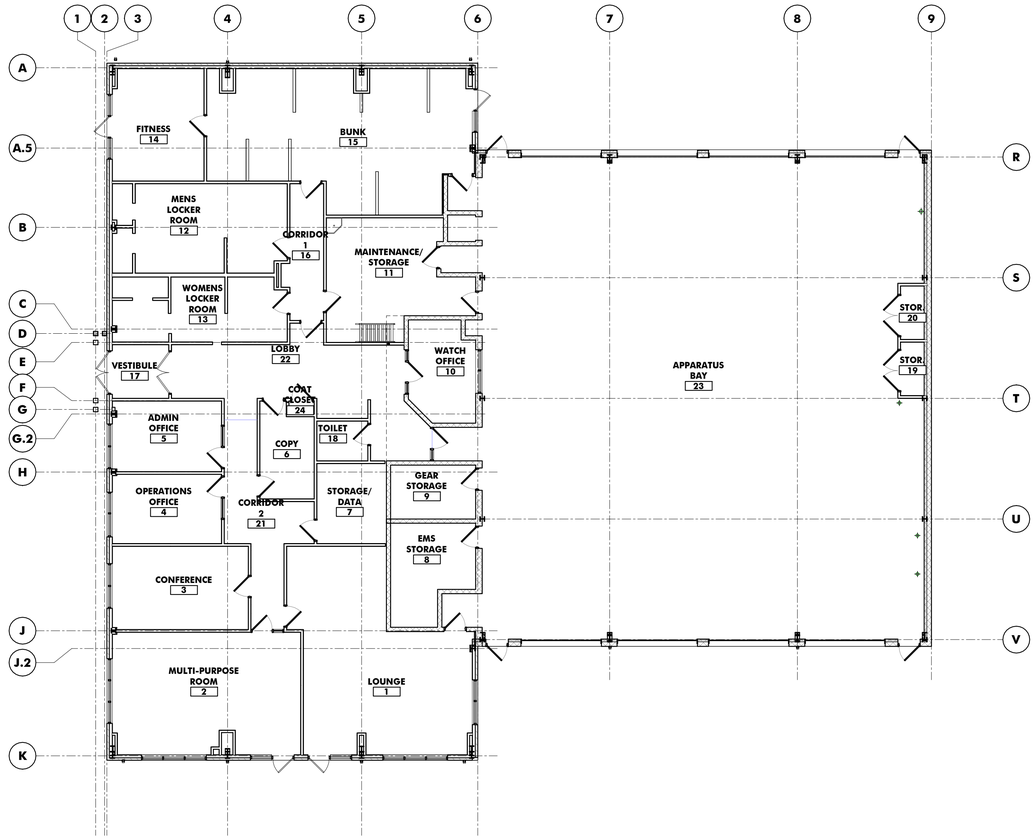
4/17/2026 1:38:36 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



NOTE:
ALL CEILINGS IN LIVING QUARTERS PORTION OF STATION ARE TO BE REPLACED UNLESS NOTED OTHERWISE

2 EXISTING REFLECTED CEILING PLAN
3/32" = 1'-0"



1 EXISTING FLOOR PLAN
3/32" = 1'-0"

STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

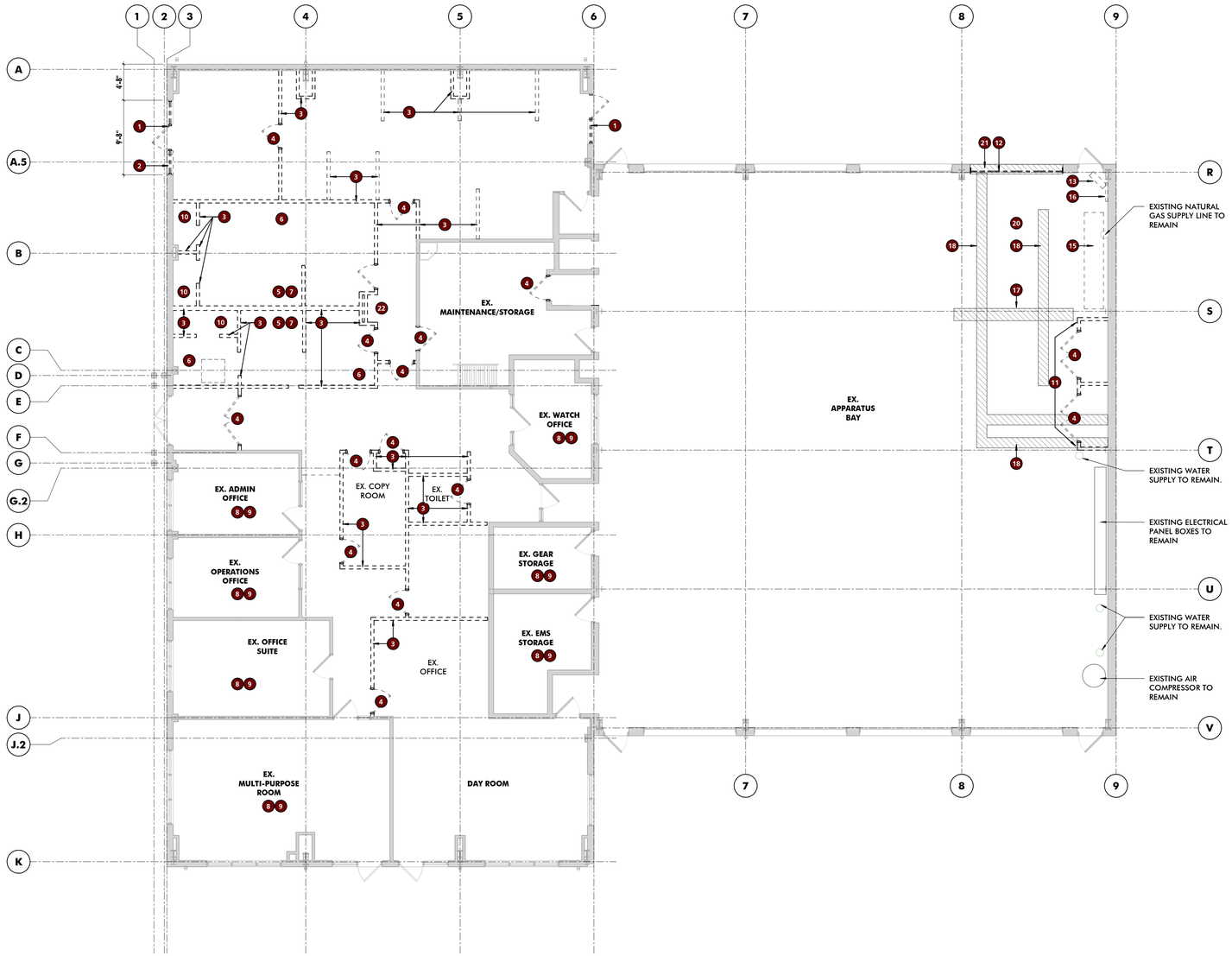
EXISTING FLOOR PLAN

SHEET NUMBER:

G011

4/17/2026 1:38:37 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 FIRST FLOOR DEMOLTION PLAN

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1	ALL BIDDERS SHALL MAKE THEMSELVES FAMILIAR WITH THE EXISTING PROJECT CONDITIONS PRIOR TO SUBMITTING A BID. THIS IS INCLUSIVE OF CONDITIONS ABOVE ACCESIBLE CEILINGS TO DETERMINE WORKING CONDITIONS.
2	PRIOR TO THE PERFORMANCE OF ANY DEMOLITION WORK THE CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, PROVIDING, INSTALLING, AND MAINTAINING ALL TEMPORARY SUPPORT AND BRACING REQUIRED TO COMPLETE THE WORK.
3	THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, DIMENSIONS, CONSTRUCTION ASSEMBLIES AND THE LIKE PRIOR TO FABRICATING, INSTALLING, OR PURCHASING ANY NEW WORK. DETAILS INDICATING EXISTING MATERIALS OF CONDITIONS MAY BE SHOWN WITHIN THE DOCUMENTS BUT ARE NOT INTENDED TO FULLY DEFINE EXISTING CONDITIONS.
4	DEMOLITION WORK MAY BE INDICATED THROUGHOUT THE CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DOCUMENTS FOR ADDITIONAL DEMOLITION WORK.
5	IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN SAFE WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PROTECT PERSONS AND PROPERTY AND OTHERWISE MAINTAIN SAFE WORKING CONDITIONS.
6	THE CONTRACTOR SHALL MAINTAIN A CLEAR, CLEAN, USEABLE CONSTRUCTION SITE THROUGH DAILY CLEANUP OF WORK AREAS.
7	THE OWNER SHALL BE MAINTAINING OCCUPANCY OF THE SITE AND PORTIONS OF THE BUILDING DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE OWNER'S PERSONNEL THROUGHOUT THE CONSTRUCTION TO MINIMIZE, TO THE GREATEST EXTENT POSSIBLE, ANY DISRUPTIONS IN THE OWNER'S WORKING PROCEDURES. THE PHASING OF THE PROJECT SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL NOT BE REASON FOR ADDITIONAL FEES. ADDITIONALLY, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER A MINIMUM OF 72 HOURS PRIOR TO ANY DISRUPTION OF SERVICES/UTILITIES REQUIRED TO COMPLETE THE WORK.
8	THE CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND DEBRIS BARRIERS BETWEEN AREAS TO REMAIN IN OPERATION AND WORK AREAS. BARRIERS SHALL BE PROVIDED AT, BUT NOT LIMITED TO HVAC SUPPLY AND RETURN OPENINGS, TRANSFER VENTS, EXHAUST VENTS, AND OTHER SUCH OPENINGS. BARRIERS SHALL BE A MINIMUM OF 10 MIL PLASTIC SHEETING SECURED AND SEALED TO EXISTING CONSTRUCTION AND/OR TEMPORARY FRAMING. PLASTIC SHEETING SHALL BE OVERLAPPED A MINIMUM OF 12" AND TAPED BOTH SIDES.
9	THE CONTRACTOR SHALL PROVIDE PROTECTION FROM THE WEATHER FOR PORTIONS OF EXISTING CONSTRUCTION THAT ARE TO REMAIN OCCUPIED OR USEABLE BY THE OWNER OR TO AREAS THAT CONTAIN ITEMS TO REMAIN THAT WILL BE DAMAGED BY WEATHER.
10	ALL ITEMS INDICATED TO BE REMOVED AND/OR DEMOLISHED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL REVIEW WITH THE OWNER IF ANY ITEMS TO BE REMOVED AND/OR DEMOLISHED ARE TO BE RETAINED BY THE OWNER PRIOR TO ANY DEMOLITION WORK BEING PERFORMED. ALL ITEMS TO BE SALVAGED BY THE OWNER SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE OWNER IN THE CONDITION FOUND PRIOR TO ANY WORK BEING PERFORMED. ALL OTHER ITEMS INDICATED TO BE REMOVED AND/OR DEMOLISHED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR IN A LAWFUL MANNER.
11	THE CONTRACTOR SHALL REPLACE OR REPAIR ANY ITEMS DAMAGED BY THE CONTRACTOR OR ANY OF ITS AGENTS TO A MINIMUM CONDITION MATCHING THE ITEMS' CONDITION AT THE START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
12	THE CONTRACTOR SHALL REPAIR ANY MATERIALS, SYSTEMS, OR FINISHES WITHIN OR OUTSIDE OF THE GENERAL WORK AREA THAT ARE REQUIRED TO BE DISTURBED TO COMPLETE THE ENTIRE SCOPE OF WORK ASSOCIATED WITH BUILDING SYSTEM CONNECTIVITY.
13	THE CONTRACTOR SHALL PREPARE ALL SURFACES AFFECTED BY DEMOLITION OPERATIONS TO RECEIVE NEW WORK AS BOTH INDICATED WITHIN THESE DRAWINGS AND SPECIFICATIONS/PROJECT MANUAL AND AS RECOMMENDED BY THE MANUFACTURERS' WRITTEN INSTRUCTIONS FOR THE INSTALLATION OF EACH RESPECTIVE PRODUCT.
14	THE CONTRACTOR SHALL REMOVE EXISTING FINISHES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS AND ENSURE THAT SUBSTRATE CONDITIONS ARE SMOOTH AND IN SATISFACTORY CONDITION TO RECEIVE NEW WORK.
15	THE CONTRACTOR SHALL REMOVE ALL ANCHORS, FASTENERS, WALL HANGERS, AND MISCELLANEOUS EXTRUSIONS AND APPURTENANCES OF ITEMS BOTH NO LONGER INSTALLED AND ITEMS REMOVED THROUGH DEMOLITION PROCEDURES.
16	THE CONTRACTOR SHALL COORDINATE ANY SAW CUTS WITHIN THE EXISTING SLABS WITHIN THE NEW WORK AREA AS REQUIRED TO INSTALL NEW ELECTRICAL CONDUIT, PLUMBING, AND/OR STRUCTURAL ELEMENTS. CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND DEPTH WITH THE FULL SET OF DOCUMENTS. REPLACE AND REPAIR CONCRETE AND FLASH AS REQUIRED TO CREATE A FLUSH SUBSTRATE AFTER COMPLETION OF WORK TASKS.
17	PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORK, THE CONTRACTOR IS REQUIRED TO TAKE DETAILED PHOTOGRAPHS OF ALL EXISTING SITE AND FACILITY CONDITIONS, CAPTURING ALL VISIBLE ASPECTS OF THE PROPERTY AND SUBMIT DECMs FOR REVIEW.
18	DEMOLITION SHALL BE CONDUCTED IN A MANNER SO AS TO PREVENT DAMAGE TO THE EXISTING CONCRETE SLAB. PRIOR TO THE START OF NEW WORK, ANY DAMAGE OR HOLES IN SLAB RESULTING FROM DEMOLITON SHALL BE PATCHED AND HONED TO MATCH ADJACENT FINISH.

REFERENCED NOTES - DEMOLITION

1	REMOVE EXTERIOR DOOR, FRAME AND HARDWARE. PATCH, POINT-UP/TOUCH-UP EXISTING TO REMAIN FINISHES
2	SAWCUT PORTIONS OF EXISTING MASONRY KNEE WALL TO ACCOMMODATE NEW OPENING.
3	REMOVE EXISTING WALL AND ALL ASSOCIATED FIXTURES IN THEIR ENTIRETY.
4	REMOVE AND SALVAGE EXISTING DOOR, FRAME, AND HARDWARE.
5	REMOVE EXISTING TOILET PARTITIONS.
6	LOCKERS, BENCHES AND OTHER ITEMS SHALL BE REMOVED WITH CARE AND STORED IN A LOCATION ON PROJECT SITE DESIGNATED BY THE OWNER.
7	REMOVE EXISTING SINKS, TOILETS, URINALS, SHOWER HEADS AND ALL ASSOCIATED APPURTENANCES. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION
8	REMOVE EXISTING FLOOR FINISH, BASE AND ALL ASSOCIATED ACCESSORIES DOWN TO SUBFLOOR. PREPARE SURFACE TO RECEIVE NEW WORK.
9	REMOVE EXISTING FINISHED CEILING AND ALL ASSOCIATED ACCESSORIES. SEE MEP DEMO PLANS FOR ADDITIONAL INFORMATION REGARDING REMOVAL OF LIGHTS, HVAC REGISTERS, A/V AND ALERTING EQUIPMENT.
10	SAW CUT PORTION OF CONCRETE SLAB TO ACCOMMODATE REMOVAL OF EXISTING FLOOR DRAINS AND REMEDIATE SLOPED PORTION OF FLOOR SLAB. CONTRACTOR SHALL PREPARE SURFACE FOR NEW WORK.
11	DEMOLISH EXISTING STORAGE CLOSETS. REMOVE AND SALVAGE ANY REMAINING EQUIPMENT. POINT UP/TOUCH UP RESULTING DAMAGE TO MASONRY WALLS AND PREP FOR PAINTING.
12	REMOVE AND SALVAGE OVERHEAD SECTIONAL DOOR, TRACK, HARDWARE, AND MOTOR. PREP RESULTING M.O. FOR MASONRY INFILL.
13	REMOVE & SALVAGE EXISTING WALL-MOUNTED FAN. REMOVE ASSOCIATED CONDUIT AND BOX. POINT-UP, TOUCH-UP. PREP WALL FOR PAINTING.
15	REMOVE EXISTING WALL-MOUNTED SHELVING WITH GALVANIZED PIPE SUPPORTS. INFILL RESULTING GAPS IN CMU WALL
16	REMOVE & SALVAGE EXISTING WALL-MOUNTED AIR-CYLINDER HOLDER. RELOCATE AS DIRECTED BY OWNER.
17	REMOVE EXISTING TRENCH DRAIN. INFILL RESULTING TRENCH WITH GRAVEL SUBSTRATE. TOP WITH 4" CONCRETE.
18	SAWCUT SLAB AS REQUIRED FOR NEW MASONRY WALLS AND FOOTINGS. SEE STRUCTURAL DRAWINGS
20	PREP EXISTING SLAB TO RECEIVE EPOXY RESIN FINISH PER MANUFACTURERS RECOMMENDATIONS.
21	DEMO EXISTING SLAB AT BAY DOOR THRESHOLD. SEE ASSOCIATED SECTION.
22	REMOVE AND SALVAGE EXISTING WATER FOUNTAIN

PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW WALL/PARTITION
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW DOOR

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

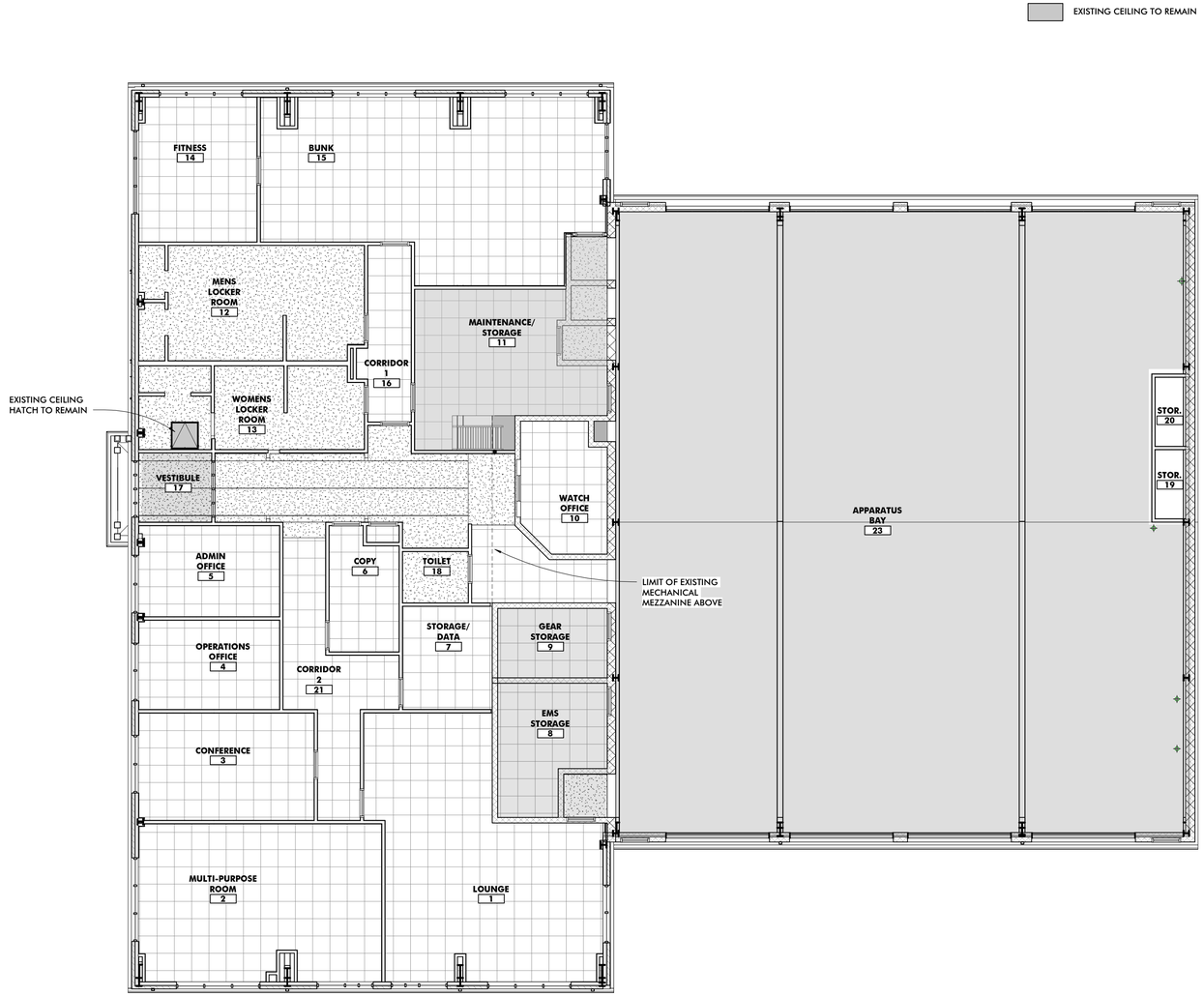
SHEET REVISION SCHEDULE:
No. DATE

DEMO FLOOR PLAN

SHEET NUMBER:

AD100

4/17/2026 1:38:38 PM



1 DEMO REFLECTED CEILING PLAN

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1	ALL BIDDERS SHALL MAKE THEMSELVES FAMILIAR WITH THE EXISTING PROJECT CONDITIONS PRIOR TO SUBMITTING A BID. THIS IS INCLUSIVE OF CONDITIONS ABOVE ACCESIBLE CEILINGS TO DETERMINE WORKING CONDITIONS.
2	PRIOR TO THE PERFORMANCE OF ANY DEMOLITION WORK THE CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, PROVIDING, INSTALLING, AND MAINTAINING ALL TEMPORARY SUPPORT AND BRACING REQUIRED TO COMPLETE THE WORK.
3	THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS, DIMENSIONS, CONSTRUCTION ASSEMBLIES AND THE LIKE PRIOR TO FABRICATING, INSTALLING, OR PURCHASING ANY NEW WORK. DETAILS INDICATING EXISTING MATERIALS OF CONDITIONS MAY BE SHOWN WITHIN THE DOCUMENTS BUT ARE NOT INTENDED TO FULLY DEFINE EXISTING CONDITIONS.
4	DEMOLITION WORK MAY BE INDICATED THROUGHOUT THE CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL DOCUMENTS FOR ADDITIONAL DEMOLITION WORK.
5	IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN SAFE WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PROTECT PERSONS AND PROPERTY AND OTHERWISE MAINTAIN SAFE WORKING CONDITIONS.
6	THE CONTRACTOR SHALL MAINTAIN A CLEAR, CLEAN, USEABLE CONSTRUCTION SITE THROUGH DAILY CLEANUP OF WORK AREAS.
7	THE OWNER SHALL BE MAINTAINING OCCUPANCY OF THE SITE AND PORTIONS OF THE BUILDING DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE OWNER'S PERSONNEL THROUGHOUT THE CONSTRUCTION TO MINIMIZE, TO THE GREATEST EXTENT POSSIBLE, ANY DISRUPTIONS IN THE OWNER'S WORKING PROCEDURES. THE PHASING OF THE PROJECT SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL NOT BE REASON FOR ADDITIONAL FEES. ADDITIONALLY, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER A MINIMUM OF 72 HOURS PRIOR TO ANY DISRUPTION OF SERVICES/UTILITIES REQUIRED TO COMPLETE THE WORK.
8	THE CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND DEBRIS BARRIERS BETWEEN AREAS TO REMAIN IN OPERATION AND WORK AREAS. BARRIERS SHALL BE PROVIDED AT, BUT NOT LIMITED TO HVAC SUPPLY AND RETURN OPENINGS, TRANSFER VENTS, EXHAUST VENTS, AND OTHER SUCH OPENINGS. BARRIERS SHALL BE A MINIMUM OF 10 MIL PLASTIC SHEETING SECURED AND SEALED TO EXISTING CONSTRUCTION AND/OR TEMPORARY FRAMING. PLASTIC SHEETING SHALL BE OVERLAPPED A MINIMUM OF 12" AND TAPED BOTH SIDES.
9	THE CONTRACTOR SHALL PROVIDE PROTECTION FROM THE WEATHER FOR PORTIONS OF EXISTING CONSTRUCTION THAT ARE TO REMAIN OCCUPIED OR USEABLE BY THE OWNER OR TO AREAS THAT CONTAIN ITEMS TO REMAIN THAT WILL BE DAMAGED BY WEATHER.
10	ALL ITEMS INDICATED TO BE REMOVED AND/OR DEMOLISHED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL REVIEW WITH THE OWNER IF ANY ITEMS TO BE REMOVED AND/OR DEMOLISHED ARE TO BE RETAINED BY THE OWNER PRIOR TO ANY DEMOLITION WORK BEING PERFORMED. ALL ITEMS TO BE SALVAGED BY THE OWNER SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE OWNER IN THE CONDITION FOUND PRIOR TO ANY WORK BEING PERFORMED. ALL OTHER ITEMS INDICATED TO BE REMOVED AND/OR DEMOLISHED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR IN A LAWFUL MANNER.
11	THE CONTRACTOR SHALL REPLACE OR REPAIR ANY ITEMS DAMAGED BY THE CONTRACTOR OR ANY OF ITS AGENTS TO A MINIMUM CONDITION MATCHING THE ITEMS' CONDITION AT THE START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
12	THE CONTRACTOR SHALL REPAIR ANY MATERIALS, SYSTEMS, OR FINISHES WITHIN OR OUTSIDE OF THE GENERAL WORK AREA THAT ARE REQUIRED TO BE DISTURBED TO COMPLETE THE ENTIRE SCOPE OF WORK ASSOCIATED WITH BUILDING SYSTEM CONNECTIVITY.
13	THE CONTRACTOR SHALL PREPARE ALL SURFACES AFFECTED BY DEMOLITION OPERATIONS TO RECEIVE NEW WORK AS BOTH INDICATED WITHIN THESE DRAWINGS AND SPECIFICATIONS/PROJECT MANUAL AND AS RECOMMENDED BY THE MANUFACTURERS' WRITTEN INSTRUCTIONS FOR THE INSTALLATION OF EACH RESPECTIVE PRODUCT.
14	THE CONTRACTOR SHALL REMOVE EXISTING FINISHES AS INDICATED THROUGHOUT THE CONTRACT DOCUMENTS AND ENSURE THAT SUBSTRATE CONDITIONS ARE SMOOTH AND IN SATISFACTORY CONDITION TO RECEIVE NEW WORK.
15	THE CONTRACTOR SHALL REMOVE ALL ANCHORS, FASTENERS, WALL HANGERS, AND MISCELLANEOUS EXTRUSIONS AND APPURTENANCES OF ITEMS BOTH NO LONGER INSTALLED AND ITEMS REMOVED THROUGH DEMOLITION PROCEDURES.
16	THE CONTRACTOR SHALL COORDINATE ANY SAW CUTS WITHIN THE EXISTING SLABS WITHIN THE NEW WORK AREA AS REQUIRED TO INSTALL NEW ELECTRICAL CONDUIT, PLUMBING, AND/OR STRUCTURAL ELEMENTS. CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND DEPTH WITH THE FULL SET OF DOCUMENTS. REPLACE AND REPAIR CONCRETE AND FLASH AS REQUIRED TO CREATE A FLUSH SUBSTRATE AFTER COMPLETION OF WORK TASKS.
17	PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORK, THE CONTRACTOR IS REQUIRED TO TAKE DETAILED PHOTOGRAPHS OF ALL EXISTING SITE AND FACILITY CONDITIONS, CAPTURING ALL VISIBLE ASPECTS OF THE PROPERTY AND SUBMIT DECMs FOR REVIEW.
18	DEMOLITION SHALL BE CONDUCTED IN A MANNER SO AS TO PREVENT DAMAGE TO THE EXISTING CONCRETE SLAB. PRIOR TO THE START OF NEW WORK, ANY DAMAGE OR HOLES IN SLAB RESULTING FROM DEMOLITON SHALL BE PATCHED AND HONED TO MATCH ADJACENT FINISH.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

STATE OF MARYLAND · CRAIG A. WOODWARD · 15505 · ARCHITECT

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

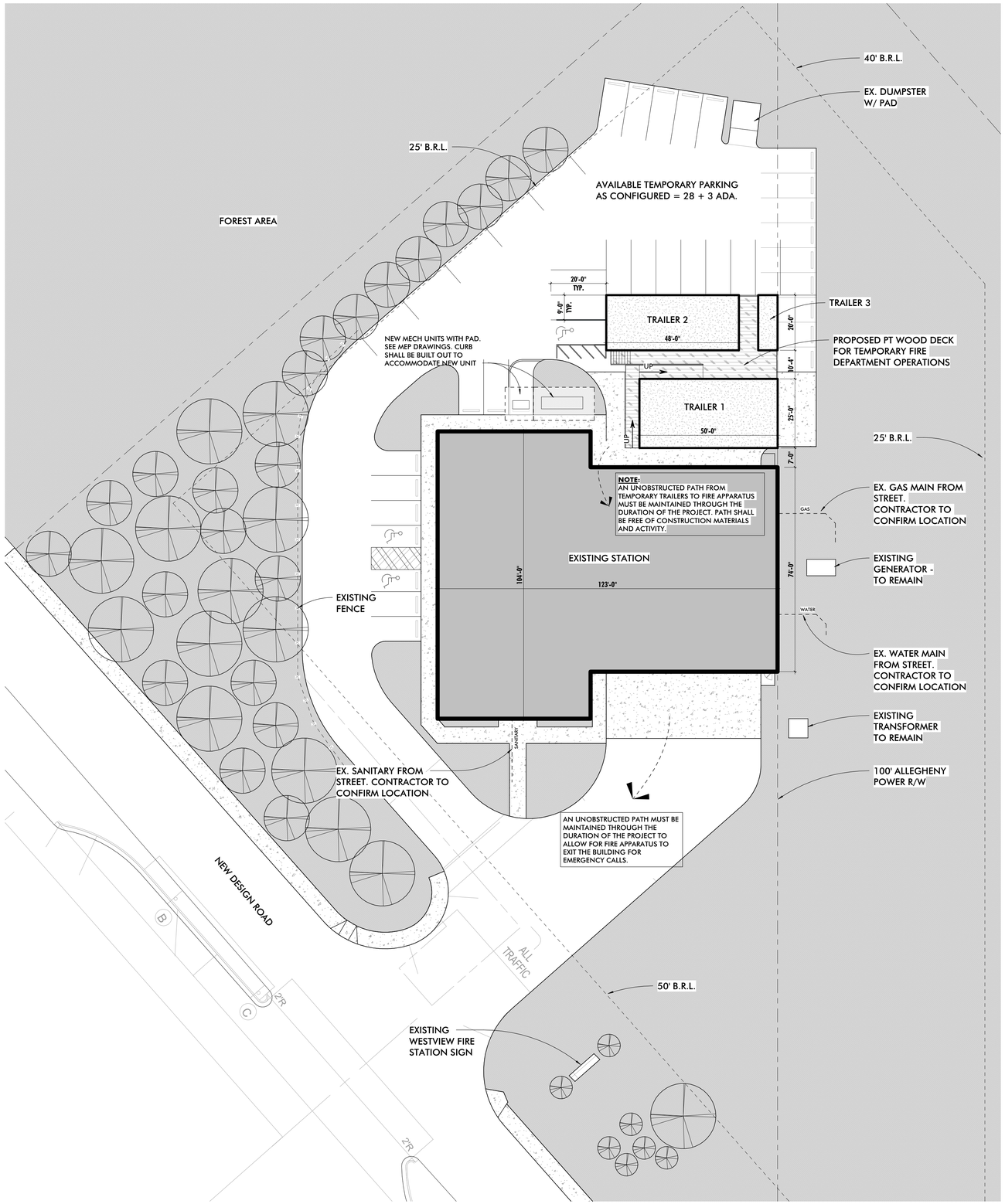
DEMO REFLECTED CEILING PLAN

SHEET NUMBER:

AD101

4/17/2026 1:38:38 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 ARCHITECTURAL SITE DIAGRAM & TEMPORARY FACILITIES PLAN
1" = 20'-0"

TEMPORARY TRAILER FOR FIRE DEPARTMENT USE ONLY
BASIS OF DESIGN REQUIREMENTS

TRAILER 1 - LOUNGE:
- APPROX. 25'x50'
- LOUNGE AREA FOR 9 RECLINERS
- SMALL KITCHENETTE (4 BURNER STOVE W/ OVEN, ONE COMPARTMENT-DEEP SINK, (2) FULL REFRIGERATOR, FREEZER, (2) MICROWAVE.
- 2 OFFICES TO FIT A DESK W/ COMPUTER AND PHONE, 2 CHAIRS, FILE CABINET AND BED
- TEMPORARY CONDUIT W/ STRINGS, SIZED PER CODE, FROM EXISTING NETWORK TO TRAILER 1 TO ACCOMODATE TELECOM REQUIREMENTS. CONTRACTOR TO COORDINATE WITH OIT.
- TEMPORARY CONDUIT W/ STRINGS, SIZED PER CODE, TO TRAILER 1 TO ACCOMODATE EMERGENCY NOTIFICATION REQUIREMENTS. CONTRACTOR TO COORDINATE WITH FIRE ALERT SYSTEM PROVIDER.

TRAILER 2 - BUNK TRAILER:
- APPROX. 20'x48'
- TRAILER BUNK SLEEPS 11 TOTAL
- TEMPORARY CONDUIT W/ STRINGS, SIZED PER CODE, FROM EXISTING NETWORK TO TRAILER 1 TO ACCOMODATE TELECOM REQUIREMENTS. CONTRACTOR TO COORDINATE WITH OIT.
- TEMPORARY CONDUIT W/ STRINGS, SIZED PER CODE, TO TRAILER 2 TO ACCOMODATE EMERGENCY NOTIFICATION REQUIREMENTS. CONTRACTOR TO COORDINATE WITH FIRE ALERT SYSTEM PROVIDER.
- ALERTING AND DISPATCH

TRAILER 3 - T&S:
- APPROX. 7'x20'
- 4 PERSONAL TOILET & SHOWER STALLS
- 1 AUDIBLE ALARM
- TEMPORARY CONDUIT W/ STRINGS, SIZED PER CODE, FROM EXISTING COMMAND CENTER TO TRAILER 1 TO ACCOMODATE EMERGENCY NOTIFICATION REQUIREMENTS. CONTRACTOR TO COORDINATE WITH FIRE ALERT SYSTEM PROVIDER

ALL TRAILERS TO INCLUDE THE FOLLOWING TEMPORARY UTILITIES:
- ELECTRIC
- WATER
- FIRE SUPPRESSION
- SANITARY

SITE WORK NOTE:
CONTRACTOR SHALL PROTECT ALL EXISTING SITE FEATURES, INCLUDING, BUT NOT LIMITED TO, EXISTING PAVED SURFACES AND CURB & GUTTER.
ANY DAMAGE TO THE SITE AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AT NO EXPENSE TO OWNER.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

ARCHITECTURAL SITE DIAGRAM

SHEET NUMBER:
A001

4/17/2026 1:38:41 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

GENERAL PROJECT NOTES

1	THE FOLLOWING GENERAL NOTES APPLY TO THE ENTIRE PROJECT.
2	THE CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND ALL SPECIFICATIONS AND DRAWINGS FOR THE PROJECT, INCLUDING THOSE THAT MAY PRIMARILY PERTAIN TO WORK THAT THE CONTRACTOR NORMALLY DOES NOT PERFORM WITH ITS OWN FORCES. THE CONTRACTOR SHALL USE ALL OF THE PROJECT DRAWINGS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT AND ITS WORK, TO DETERMINE THE TYPE OF CONSTRUCTION AND SYSTEMS, FOR COORDINATION, TO DETERMINE WHAT OTHER WORK MAY BE INVOLVED THROUGHOUT, TO ANTICIPATE AND NOTIFY OTHERS WHEN THEIR COORDINATED EFFORTS WILL BE REQUIRED, AND ALL OTHER RELEVANT MATTERS RELATED TO THE PROJECT AND ITS WORK.
3	IF THERE IS ANY INCONSISTENCY IN THE QUALITY OR QUANTITY OF THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS, THEN THE CONTRACTOR SHALL (1) IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF SUCH INCONSISTENCY AND (2) PROVIDE THE BETTER QUALITY OF OR GREATER QUANTITY OF WORK OR MATERIALS, UNLESS OTHERWISE ORDERED IN WRITING BY THE OWNER. COMPUTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS. THE CONTRACT DOCUMENTS GENERALLY SET FORTH THE BASIS AND ANALYSIS OF DESIGN, AND THE CONTRACTOR SHALL OBTAIN SUCH INFORMATION AS MAY BE NECESSARY TO SATISFACTORILY PERFORM AND COMPLETE THE WORK.
4	THE ARCHITECTURAL DRAWINGS ARE A PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS AND WITHIN THE SPECIFICATIONS. THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES, AND SUPPLIERS WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION BETWEEN SUBCONTRACTORS, SUPPLIERS, AND VENDORS BASED ON THE ENTIRE SET OF THESE DOCUMENTS. NO ADDITIONAL COMPENSATION WILL BE DUE TO A CONTRACTOR FOR ANY ISSUES AS A RESULT OF ANY USE OF AN INCOMPLETE SET OF CONSTRUCTION DOCUMENTS.
5	LINE OF GRADES AS SHOWN ON THE BUILDING ELEVATIONS AND SECTION ARE APPROXIMATE. THEY ARE AT THE BUILDING FACE OR THE SECTION END UNLESS NOTED OTHERWISE.
6	AT WALLS WITH SOUND ATTENUATION BLANKETS, CONTRACTOR SHALL SEAL DOOR FRAMES, GLAZED OPENING FRAMES, INTERSECTIONS, AND OTHER PENETRATIONS WITH ACOUSTICAL SEALANT.
7	VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER THE APPLICABLE PROVISIONS OF THESE DOCUMENTS AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8	CUTTING INTO NEW WORK OF OTHER TRADES SHALL BE DONE BY THE TRADE REQUIRING THE CUTTING. ALL CUTTING SHALL BE DONE IN A NEAT MANNER USING SAWS WHERE POSSIBLE. ALL PATCHING AND PAINTING REQUIRED AS A RESULT OF THIS CUTTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK BEING CUT AND PATCHED TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK. PROVIDE ADEQUATE PROTECTION OF OTHER WORK DURING CUTTING AND PATCHING TO PREVENT DAMAGE.
9	PROPERLY PREPARE ALL SURFACES FOR NEW FINISHES. PATCH WITH SEAMS WHICH ARE DURABLE AND AS INVISIBLE AS POSSIBLE. COMPLY WITH SPECIFIC TOLERANCES FOR THE TYPE OF WORK BEING DONE.
10	ALL PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE SEALED WITH PROPER/APPROVED THROUGH PENETRATION FIRE STOP SYSTEM AS RECOGNIZED BY AND LISTED WITH NATIONALLY AND ACCEPTED TESTING LABORATORIES.
11	OBTAIN ARCHITECT'S SPECIFIC APPROVAL PRIOR TO DEVIATING FROM THE CONTRACT DOCUMENTS. THE ARCHITECT'S RESPONSIBILITY IS LIMITED TO THE ITEMS SHOWN ON THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLY WITH STANDARD BUILDING AND CONSTRUCTION PRACTICES AND MANUFACTURER'S RECOMMENDATIONS FOR ALL ITEMS NOT SPECIFICALLY INDICATED AND DETAILED ON THE DRAWINGS. FOLLOW THE BEST TRADE PRACTICES AND ENGINEERING FOR THE ITEMS NOT SPECIFICALLY DETAILED AND INDICATED.
12	ALL PARTS OF THE WORK, INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC, MUST COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING REGULATIONS OF ALL FEDERAL, STATE, DISTRICT, AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO A GOVERNING REGULATION.
13	THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CURRENT SET OF CONSTRUCTION DRAWINGS ON SITE DURING CONSTRUCTION. THE CONTRACTOR SHALL INDICATE ON THESE DRAWINGS ALL APPROVED CHANGES TO THE WORK. THIS SET OF DRAWINGS SHALL BE TURNED OVER TO THE OWNER/CLIENT WHEN THE PROJECT IS COMPLETE.
14	THE BUILDING HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE DEMOLITION, ERECTION PROCEDURES, SEQUENCE, AND TO ENSURE THE STABILITY OF ITS COMPONENTS AND PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY GUYS, SHORING, SHEETING AND TIE-DOWNS THAT MIGHT BE NECESSARY. SUCH MATERIALS ARE NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY.
15	CONTRACTOR SHALL COORDINATE THE FRAMING LAYOUT INCLUDING PRE-ENGINEERED TRUSS WEB DESIGN WITH ELECTRICAL AND MECHANICAL WORK.
16	THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL GRADING, MECHANICAL, AND ELECTRICAL PERMITS, AND ALL OTHER RELATED PERMITS REQUIRED TO COMPLETE THE WORK. ALL PLUMBING, ELECTRICAL & MECHANICAL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED BUILDING CODE AND SHALL BE SUBJECT TO FIELD INSPECTION BY THE AGENCIES HAVING JURISDICTION.
17	MANNS WOODWARD STUDIOS, INC. HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR CONTAINING INFORMATION RELATED TO CONSTRUCTION METHODS, OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED. IT SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY MANNS WOODWARD STUDIOS, INC. OR ANY RESPONSIBILITY FOR SAFETY PROCEDURES. IT IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING CONSTRUCTION. MANNS WOODWARD STUDIOS, INC. DOES NOT ENGAGE IN, AND DOES NOT SUPERVISE THE CONSTRUCTION PROCESS.
18	THESE DRAWINGS ARE THE PROPERTY OF MANNS WOODWARD STUDIOS, INC. AND MAY NOT BE MODIFIED OR REPRODUCED WITHOUT WRITTEN PERMISSION. REPRODUCTIONS OF THE DRAWINGS MUST BEAR THE NAME OF THE ARCHITECT AND PROJECT LOCATION. THESE DRAWINGS ARE FULLY PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS; ANY INFRINGEMENT WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.
19	ALL DEVICES INCLUDING SWITCHES, PLATES, THERMOSTATS, CONTROL PANELS, ETC. SHALL BE COORDINATED BY THE CONTRACTOR BASED UPON THE FOLLOWING CRITERIA: A. DEVICES LOCATED WITHIN 36" OF EACH OTHER HORIZONTALLY (IN PLAN VIEW) OF EACH OTHER SHALL BE INSTALLED SUCH THAT THE TOPS OF ALL DEVICES ARE ALIGNED OR THE CENTERLINE OF DEVICES ARE MAINTAINED. B. DEVICES LOCATED VERTICALLY (TWO OR MORE STACKED DEVICES) SHALL BE INSTALLED SUCH THAT THE CENTERLINES ARE MAINTAINED. SEE DIAGRAMS FOR REFERENCE. ADA REACH HEIGHTS AND DEVICE REQUIREMENTS PER CODE SUPERCEDE THIS NOTE AND WHERE IN CONFLICT SHALL REQUIRE COORDINATION AND APPROVAL FROM THE ARCHITECT.
20	FINAL LOCATION OF ALL FIRE ALARM DEVICES, EMERGENCY EGRESS LIGHTING, EXIT SIGNS, FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS, ETC. SHALL BE REVIEWED AND FIELD COORDINATED WITH CONSIDERATION OF FINAL FINISHES WITH THE ARCHITECT PRIOR TO INSTALLATION. APPROVAL MUST BE OBTAINED BY THE ARCHITECT PRIOR TO INSTALLATION.
21	***EXISTING BUILDING ONLY***WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR THE DELEGATED DESIGN RESPONSIBILITY OF PROVIDING CALCULATIONS, DRAWINGS, FIELD VERIFICATION AND CERTIFICATION, IN THE FORM REQUIRED BY THE AHJ, THAT THE STRUCTURE OF THE EXISTING BUILDING IS SUITABLE TO ACCOMMODATE THE INSTALLATION AND OPERATION OF THE SPRINKLER SYSTEM AND ALL SPRINKLER SYSTEM COMPONENTS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE DEAD LOAD OF THE SYSTEM COMPONENTS AND THE LIVE LOADS AND FORCES IMPOSED UPON THE STRUCTURE BY THE OPERATION OF THE SPRINKLER SYSTEM. CERTIFICATION SHALL BE PROVIDED BY A STRUCTURAL ENGINEER LICENSED WITHIN THE JURISDICTION WHERE THE PROJECT IS LOCATED. THE CERTIFICATION SHALL BE PROVIDED AS PART OF THE SPRINKLER SYSTEM SUBMITTALS.
22	

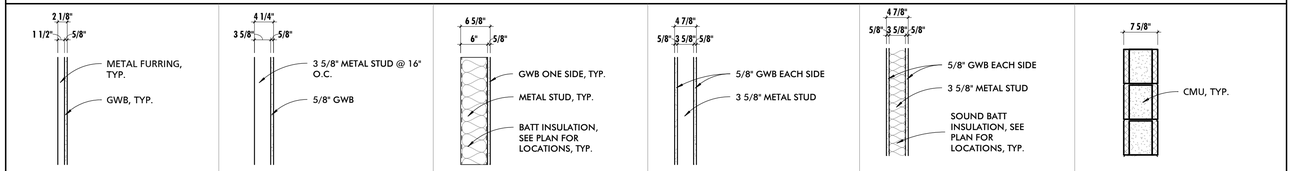
GENERAL PARTITION NOTES

1	ENTRY SPACES, LOBBIES, AND CORRIDORS TO RECEIVE IMPACT RESISTANT GYPSUM WALL BOARD, U.N.O.
2	PROVIDE FIBERGLASS REINFORCED MOISTURE RESISTANT GYPSUM WALL BOARD IN ALL EQUIPMENT ROOMS, JANITOR'S CLOSETS, RESTROOMS, KITCHENS AND OTHER WET AREAS. PROVIDE FIBERGLASS REINFORCED MOISTURE RESISTANT WALL BOARD IN ALL OTHER AREAS WITHIN 8'-0" OF WATER SOURCE.
3	CONTRACTOR SHALL PROVIDE BLOCKING AND NAILERS AS REQUIRED TO SUPPORT ALL NEW WORK, INCLUDING ITEMS TO BE PROVIDED AND/OR INSTALLED BY OWNER.
4	ALL CORRIDOR AND FIRE-RATED PARTITIONS SHALL BE EXTENDED TO THE UNDERSIDE OF THE STRUCTURE ABOVE, U.N.O. THE PERIMETER WALLS OF ANY SPACE NOT PROVIDED WITH A CEILING SHALL EXTEND THE THE UNDERSIDE OF DECK ABOVE.
5	PROVIDE DEFLECTION TRACKS AT TOP OF ALL NON-LOAD BEARING STUD WALLS EXTENDING TO THE UNDERSIDE OF STRUCTURE ABOVE, U.N.O.
6	PROVIDE CONCRETE BACKER BOARD IN LIEU OF GYPSUM WALL BOARD WHERE TILE FINISH IS INDICATED.
7	ALL FIRE WALLS SHALL BE PLACARDED OR STENCILED ON BOTH SIDES WITH THE PHRASE "FIRE WALL" PER IBC SECTION 703.7.1. THE LETTERS SHALL BE RED IN COLOR, 6" INCHES HIGH AND A MIN. OF 3/4" WIDE. THE PHRASE SHALL BE WRITTEN ONCE FOR EACH 15 FEET OF HORIZONTAL WALL LENGTH. THIS SIGNAGE MAY BE LOCATED IN THE CONCEALED SPACE ABOVE A CEILING.
8	INTERIOR METAL STUD FRAMING AND EXTERIOR FURRING/MISCELLANEOUS FRAMING, UNLESS NOTED OTHERWISE, SHALL BE A MINIMUM OF 20 GAUGE THICKNESS AND SHALL BE SPACED 16 INCHES ON CENTER. METAL STUD PROVIDER/INSTALLER SHALL BE RESPONSIBLE FOR THE DELEGATED DESIGN AND FINAL ENGINEERING OF ALL METAL STUD FRAMING COMPONENTS INCLUDING BUT NOT LIMITED TO SOFFITS, BULKHEADS, PARTITIONS, FURRING, CEILINGS, AND MISCELLANEOUS FRAMING/BLOCKING REQUIRED TO SUPPORT AND COMPLETE THE WORK. METAL STUD PROVIDER/INSTALLER/DESIGNER SHALL PROVIDE METAL STUDS IN WIDTHS INDICATED. METAL STUD DESIGNER SHALL FIRST INCREASE METAL STUD THICKNESS, SECOND DECREASE METAL STUD SPACING TO 12 INCHES ON CENTER, AND THIRD INCREASE STUD WIDTH WHERE ADJUSTING STUD THICKNESS AND SPACING ARE INSUFFICIENT TO COMPLY WITH REQUIREMENTS.
9	NEW MASONRY WALLS ABUTTING EXISTING MASONRY WALLS SHALL BE TOOTHED INTO EXISTING WALLS.
10	MOISTURE RESISTANT GYPSUM WALL BOARD SHALL BE UTILIZED IN ALL AREAS WHERE GYPSUM WALL BOARD IS TO BE DIRECTLY ADHERED TO CONCRETE OR MASONRY SURFACES IN INTERIOR APPLICATIONS. SUBSTRATE SHALL BE CLEANED AS REQUIRED AND FREE OF DUST, DEBRIS, AND MOISTURE PRIOR TO ADHESION AND FINISHING.
11	CONSTRUCTION OF RATED WALL ASSEMBLIES SHALL BE STRICTLY ADHERED TO IN ACCORDANCE WITH UL AND/OR GYPSUM ASSEMBLY SPECIFICATIONS. REFER TO CODE PLANS FOR ADDITIONAL INFORMATION.
12	PROVIDE A BULLNOSE CMU AT ALL OUTSIDE CORNERS OF INTERIOR MASONRY WALLS & SILLS.

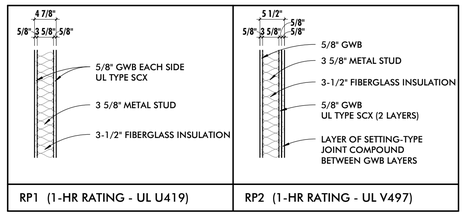
SCHEDULE - INTERIOR PARTITION & WALL TYPE

MARK	WIDTH	DESCRIPTION	FIRE RATING		
			RATING	ASSEMBLY REF	STC RATING
M08	7 5/8"	8" CMU - PAINTED			
M12	11 5/8"	12" CMU - PAINTED			
P2	2 1/8"	1 1/2" METAL FURRING W/ 5/8" GWB			
P3	3 1/8"	2 1/2" METAL STUD W/ 5/8" GWB ONE SIDE			
P4	4 1/4"	3 5/8" METAL STUD W/ 5/8" GWB ONE SIDE			
P7	4 7/8"	3-5/8" METAL STUD W/ 5/8" GYPSUM WALL BOARD EACH SIDE			
P7A	4 7/8"	3-5/8" METAL STUD W/ 5/8" GYPSUM WALL BOARD EACH SIDE			
RP1	4 7/8"	SEE CODE PLANS	1	U419	
RP2	5 1/2"	SEE CODE PLANS	1	V497	

INTERIOR PARTITION & WALL TYPES

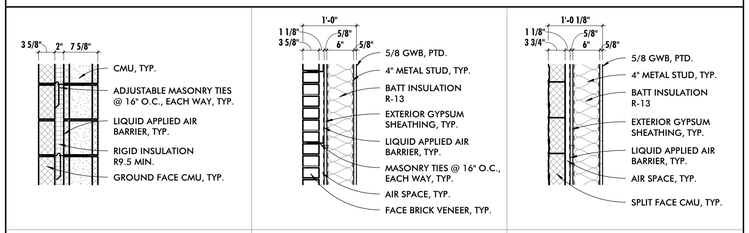


P2 | P4 | P5 | P7 | P7A | M08



RP1 (1-HR RATING - UL U419) | RP2 (1-HR RATING - UL V497)

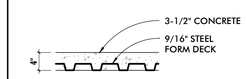
EXTERIOR WALL ASSEMBLIES



E3 | E4 | E5

FLOOR ASSEMBLIES

MEZZANINE DECK



F1

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #18595
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

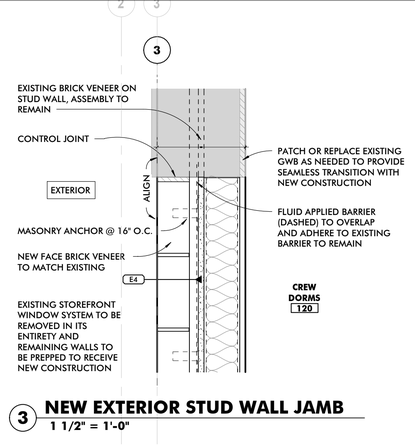
ASSEMBLY TYPES & NOTES

SHEET NUMBER:

A100

4/17/2026 1:38:41 PM

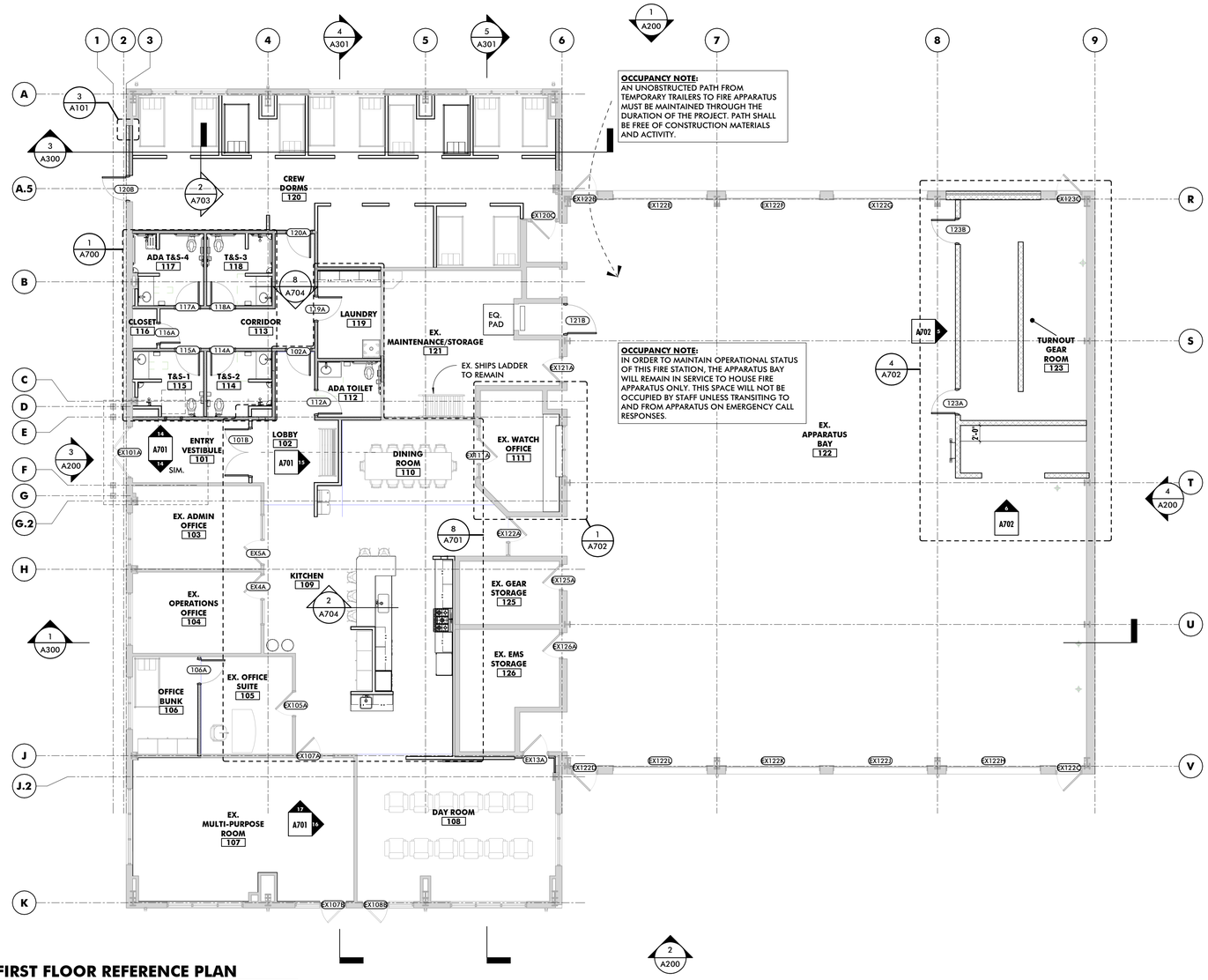
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



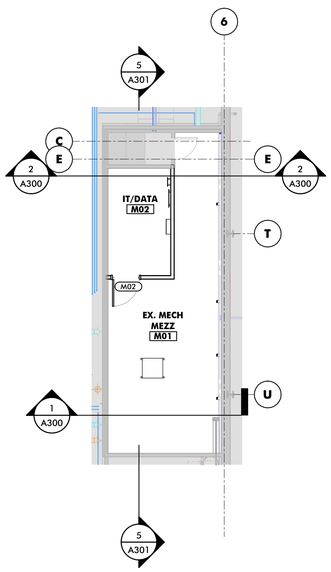
3 NEW EXTERIOR STUD WALL JAMB
1 1/2" = 1'-0"

GENERAL REFERENCE PLAN NOTES	
1	FURNITURE SHOWN FOR REFERENCE PURPOSES ONLY.
2	PROVIDE 3/4" FRT PLYWOOD BLOCKING FOR ALL WALL-MOUNTED ACCESSORIES.

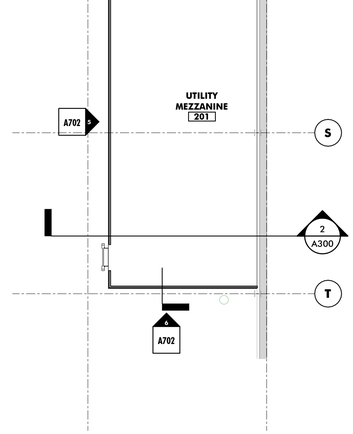
0	REFERENCED NOTES - NEW CONSTRUCTION



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



4 MECHANICAL MEZZANINE
1/8" = 1'-0"



2 UTILITY MEZZANINE
1/8" = 1'-0"

PLAN LEGEND
- EXISTING WALL TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW WALL/PARTITION
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW DOOR

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

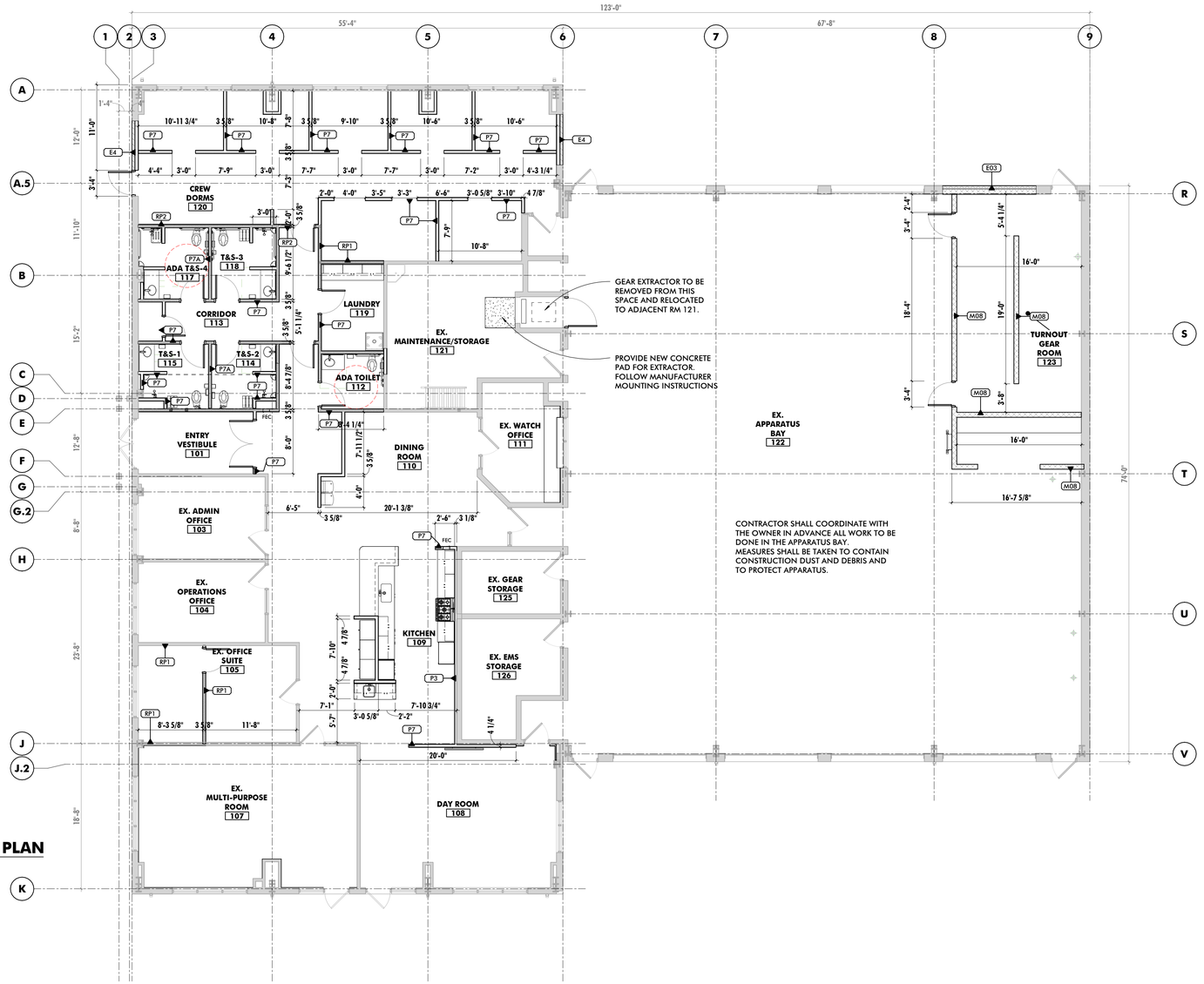
SHEET REVISION SCHEDULE:
No. DATE

REFERENCE PLAN

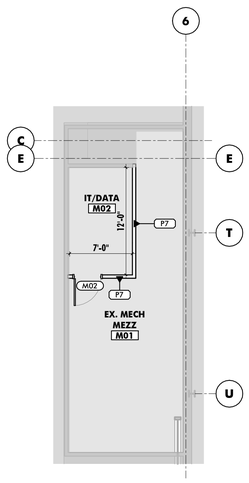
SHEET NUMBER:
A101

4/17/2026 1:38:43 PM

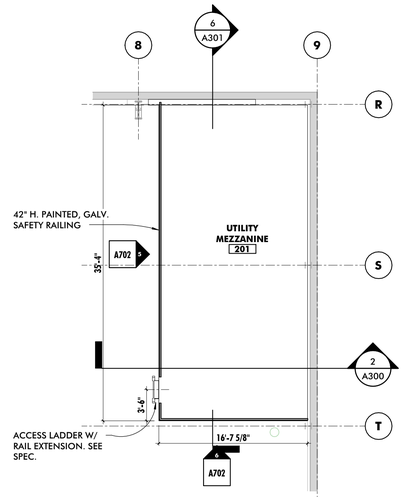
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN any MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



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



3 MECHANICAL MEZZANINE DIMENSION PLAN
1/8" = 1'-0"



2 UTILITY MEZZANINE DIM PLAN
1/8" = 1'-0"

PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW WALL/PARTITION
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW DOOR

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

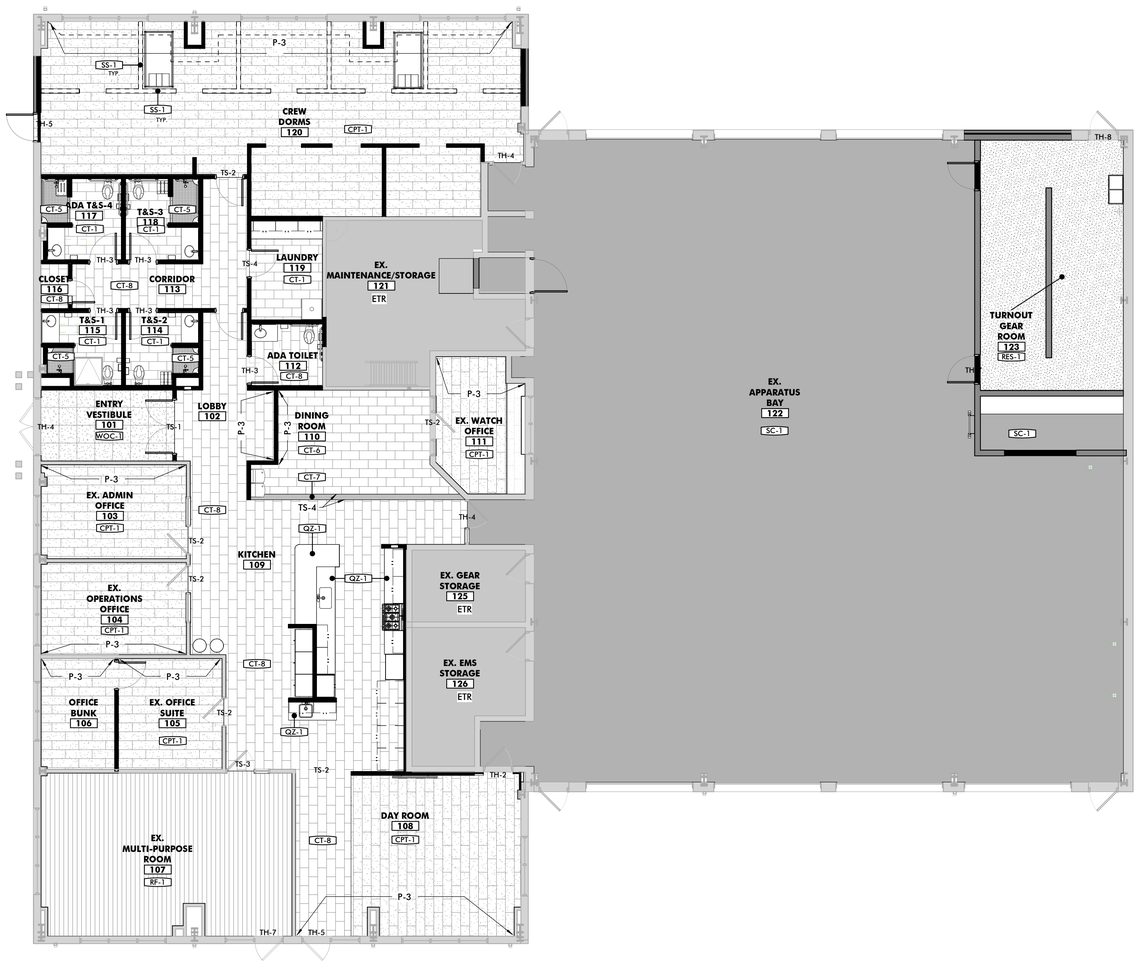
SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

DIMENSION PLAN

SHEET NUMBER:
A102

4/17/2026 1:38:45 PM



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

INTERIOR FINISH SCHEDULE

ROOM INFORMATION				WALL FINISH				CEILING FINISH	
RM #	ROOM NAME	FLOOR FINISH	BASE	NORTH	SOUTH	EAST	WEST		REMARKS
101	ENTRY VESTIBULE	WOC-1	B-1	P-1	P-1	P-1	P-1	ETR	
102	LOBBY	CT-8	B-4	P-1	P-1	P-3	P-1	ETR	
103	EX. ADMIN OFFICE	CPT-1	B-2	P-3	P-1	P-1	P-1	CLG-1	
104	EX. OPERATIONS OFFICE	CPT-1	B-2	P-1	P-3	P-1	P-1	CLG-1	
105	EX. OFFICE SUITE	CPT-1	B-2	P-3	P-1	P-1	P-1	CLG-1	
106	OFFICE BUNK	CPT-1	B-2	P-3	P-1	P-1	P-1	CLG-1	
107	EX. MULTI-PURPOSE ROOM	RF-1	B-1	P-1/FRP-1	P-1/FRP-1	P-1/FRP-1	P-1/FRP-1	CLG-1	SEE ELEVATION FOR INSTALLATION
108	DAY ROOM	CPT-1	B-2	P-1	P-3	P-1	P-1	CLG-1/CLG-2	
109	KITCHEN	CT-8	B-4	P-1	P-1	P-1	P-1	CLG-1/CLG-2	
110	DINING ROOM	CT-6/CT-7	B-4	P-1	P-1	P-1	P-3	CLG-2	
111	EX. WATCH OFFICE	CPT-1	B-2	P-3	P-1	P-1	P-1	CLG-1	
112	ADA TOILET	CT-8	B-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CLG-3	SEE ELEVATION FOR INSTALLATION
113	CORRIDOR	CT-8	B-4	P-1	P-1	P-1	P-1	CLG-1	
114	T&S-2	CT-1/CT-5	B-3	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CLG-3	SEE FINISH FLOOR PLAN & ELEVATIONS FOR LOCATIONS OF INSTALLATION
115	T&S-1	CT-1/CT-5	B-3	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CLG-3	SEE FINISH FLOOR PLAN & ELEVATIONS FOR LOCATIONS OF INSTALLATION
116	CLOSET	CT-8	B-4	P-1	P-1	P-1	P-1	CLG-2	
117	ADA T&S-4	CT-1/CT-5	B-3	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CLG-3	SEE FINISH FLOOR PLAN & ELEVATIONS FOR LOCATIONS OF INSTALLATION
118	T&S-3	CT-1/CT-5	B-2	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CT-2/CT-3/CT-4	CLG-3	SEE FINISH FLOOR PLAN & ELEVATIONS FOR LOCATIONS OF INSTALLATION
119	LAUNDRY	CT-1	B-3	P-1	P-1	P-1	P-1	CLG-3	
120	CREW DORMS	CPT-1	B-2	P-3	P-1	P-1	P-1	CLG-1	
121	EX. MAINTENANCE/STORAGE	ETR	ETR	ETR	ETR	ETR	ETR	CLG-1	
122	EX. APPARATUS BAY	SC-1	B-1	HPC-1	HPC-1	HPC-1	HPC-1	ETR	
123	TURNOUT GEAR ROOM	RES-1	B-5	HPC-1	HPC-1	HPC-1	HPC-1	CLG-2	
125	EX. GEAR STORAGE	ETR	ETR	ETR	ETR	ETR	ETR	CLG-1	
126	EX. EMS STORAGE	ETR	ETR	ETR	ETR	ETR	ETR	CLG-1	
201	UTILITY MEZZANINE								
M01	EX. MECH MEZZ								
M02	IT/DATA								

INTERIOR FINISH LEGEND

FINISH MARK	DESCRIPTION	BOD MANUFACTURER	BOD MODEL/PRODUCT LINE	COLOR	BOD COMMENTS
B-1	6" RUBBER BASE	TARKETT JOHNSONITE	40 - B	BLACK	
B-2	6" RUBBER BASE	TARKETT JOHNSONITE	VL4 - CG	COOL METAL	
B-3	6" x 12" PORCELAIN TILE COVE BASE	MOSAIC TILE	COLOR BLOX 2.0 | 03CBX171224	I SEE THE MOON	TOILET ROOM COVE BASE
B-4	6" x 12" PORCELAIN TILE COVE BASE	MOSAIC TILE	TRAJECTORY |03TRY042C	FLOW	TOILET ROOM COVE BASE
B-5	4" RESINOUS COVE BASE	DUR-A-FLEX	HYBRI-FLEX EC - MICRO CHIP	SHALE	
CPT-1	12" x 36" CARPET TILE	MOHAWK GROUP	SMART CITY |GT430 - 922	ORANGE LINE	
CT-1	12" x 24" PORCELAIN FLOOR TILE	MOSAIC TILE	COLOR BLOX 2.0 | 03CBX171224	I SEE THE MOON	TOILET ROOM FLOORING
CT-2	12" x 24" PORCELAIN WALL TILE	MOSAIC TILE	COLOR BLOX 2.0 | 03CBX311224	COTTON SHEETS	TOILET & SHOWER WALLS
CT-3	6" x 24" PORCELAIN WALL TILE	MOSAIC TILE	COLOR BLOX 2.0 | 03CBX371224	CAYENNE	TOILET & SHOWER WALL ACCENT; CONTRACTOR TO CUT FROM
CT-4	6" x 24" PORCELAIN WALL TILE	MOSAIC TILE	COLOR BLOX 2.0 | 03CBX171224	I SEE THE MOON	TOILET & SHOWER WALLS
CT-5	2" x 2" MOSAIC FLOOR TILE	MOSAIC TILE	COLOR BLOX 2.0 03CBX173M	I SEE THE MOON	SHOWER ROOM FLOORING
CT-6	12" x 24" PORCELAIN FLOOR TILE	MOSAIC TILE	TRAJECTORY | 03TRY031224	FLIGHT	SHOWER ROOM FLOORING
CT-7	2.5" x 2.5" CIRCLE MOSAIC PORCELAIN TILE	MOSAIC TILE	TRAJECTORY |03TRY042C	FLOW	DINING & KITCHEN FLOORING
CT-8	12" X 24" PORCELAIN FLOOR TILE	MOSAIC TILE	TRAJECTORY | 03TRY041224	FLOW	CORRIDOR & KITCHEN FLOORING
CT-9	3" x14" CERAMIC WALL TILE	MOSAIC TILE	TERRALMA | 45TERJAL314	JALAPAO	KITCHEN BACKSPLASH
FRP-1	48"H FIBER REINFORCED PLASTIC	MARLITE	P 807 | CLASSIC C	BLACK	GYM WALLS
HPC-1	HIGH PERFORMANCE COATING	SHERWIN WILLIAMS	SW 7056	RESERVED WHITE	
P-1	GENERAL WALL PAINT	SHERWIN WILLIAMS	SW 7056	RESERVED WHITE	
P-2	DOOR TRIM PAINT	SHERWIN WILLIAMS	SW 6991	BLACK MAGIC	
P-3	ACCENT WALL PAINT	SHERWIN WILLIAMS	SW 7701	CAVERN CLAY	
P-4	CEILING PAINT	SHERWIN WILLIAMS	SW 7005	PURE WHITE	
PL-1	PLASTIC LAMINATE	LAB DESIGNS	WA306 LS	FRUITWOOD	
QZ-1	QUARTZ COUNTERTOP	CORIAN	CALACATTA VILLA	--	
RES-1	RESINOUS FLOORING	DUR-A-FLEX	HYBRI-FLEX EC - MICRO CHIP	SHALE	
RF-1	24" x 24" RUBBER TILE	REGUPOL	AKTIVLOK ESSENTIAL | 10105	FIRESTORM RED	
SC-1	SEALED CONCRETE	--	--	--	
SS-1	SOLID SURFACE COUNTERTOP	CORIAN	STONIQUE	--	
WD-1	SOLID WOOD STAINED CABINETRY	CONESTOGA WOOD SPECIALTIES	ASTORIA | HARD MAPLE | DOOR STYLE: SLAB-1 PIECE	FINISH COLOR: NIGHTFALL | STAIN: WIPING STAIN	ALL CABINETS
WOC-1	24" x 24" CARPET TILE	MOHAWK GROUP	FIRST STEP II | GT315 - 955	COBALT	

PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW WALL/PARTITION
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW DOOR

INTERIOR FINISH LEGEND

- PORCELAIN TILE - CT-1, CT-2, CT-6, & CT-8
- PORCELAIN TILE - CT-3 & CT-4
- PORCELAIN TILE - CT-5
- PORCELAIN TILE - CT-7
- PORCELAIN TILE - CT-9
- RESINOUS FLOORING - RES-1
- CARPET TILE - CPT-1
- WALK OFF CARPET TILE - WOC-1
- LUXURY VINYL TILE - LVT-1
- SEALED CONCRETE - SC-1

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FINISH PLAN

SHEET NUMBER:
A103

4/17/2026 1:38:46 PM

SCHEDULE - EQUIPMENT

MARK	DESCRIPTION	BOD MANUFACTURER	BOD MODEL	OWNER FURNISH AND INSTALL	OWNER FURNISH CONTRACTOR INSTALL	CONTRACTOR FURNISH AND INSTALL	COMMENTS
EQ1	REFRIGERATOR	BLUESTAR	FBFD361			●	
EQ2	36" Classic Freestanding Dual Fuel Range (Black)	Fisher & Paykel Appliances	OR36SCG6B1				
EQ3	30" DOUBLE WALL OVEN	BLUESTAR	BSDEWO30DDV3			●	
EQ4	DISHWASHER	KITCHENAID	KDPM704K			●	
EQ5	STACKED WASHER DRYER COMBO	LG	WKEX200H_A / WKGX201H_A			●	
EQ6	WALL HOOD - 36"W x 30"H	GREENHECK	GRRS-W-36-T-G-O-X			●	
EQ7	MONITOR	SAMSUNG	DU6900		●		
EQ8	PERSONNEL LOCKER	BRADLEY CORPORATION	LENOX LOCKER			●	
EQ9	MICROWAVE	WHIRLPOOL	WMC50522AS			●	
EQ10	COFFEE MAKER	N/A	N/A	●			
EQ11	ICE MAKER - UNDERCOUNTER	MANITOWOC	UCP0050A			●	
EQ12	MANUAL ROLLER SHADE - BLACK OUT - WALL MOUNT	MECHOSHADE	MECHO/S SYSTEM -CLASSIC BLACKOUT 0700 SERIES			●	
EQ13	MANUAL ROLLER SHADE - LIGHT FILTERING - WALL MOUNT	MECHOSHADE	MECHO/S SYSTEM - THERMOVEIL 1500 SERIES/1519 SILVER BIRCH			●	
EQ14	TEAK FREESTANDING BENCH	TEAK WORKS 4 U	25"X14" HEAVY DUTY TEAK RIGID BENCH	●			
EQ16	1/4" THICK FRAMELESS MIRROR	AMERICAN SPECIALTIES	8287			●	
EQ17	TRASH CANS	- -	NOT IN CONTRACT	●			
EQ18	EXTRACTOR	UNIMAC	UW065 TOUCH			●	
EQ19	PPE GEAR LOCKER	GEAR GRID	20 x 20 x 74-1/2" w/ DOOR			●	



1 EQUIPMENT PLAN

1/8" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

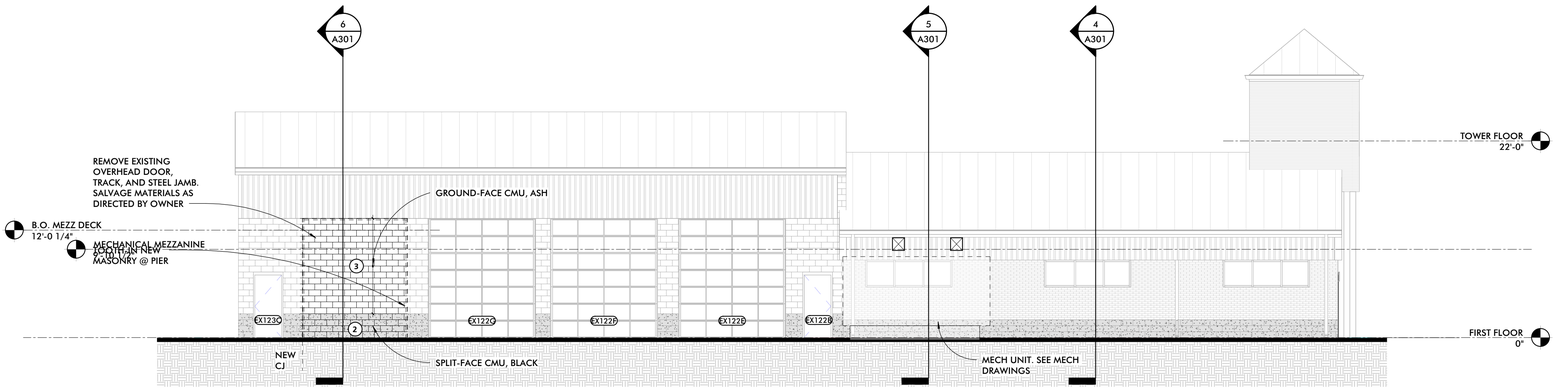
SHEET REVISION SCHEDULE:
No. DATE

FF&E PLAN

SHEET NUMBER:

A104

4/17/2026 1:38:48 PM

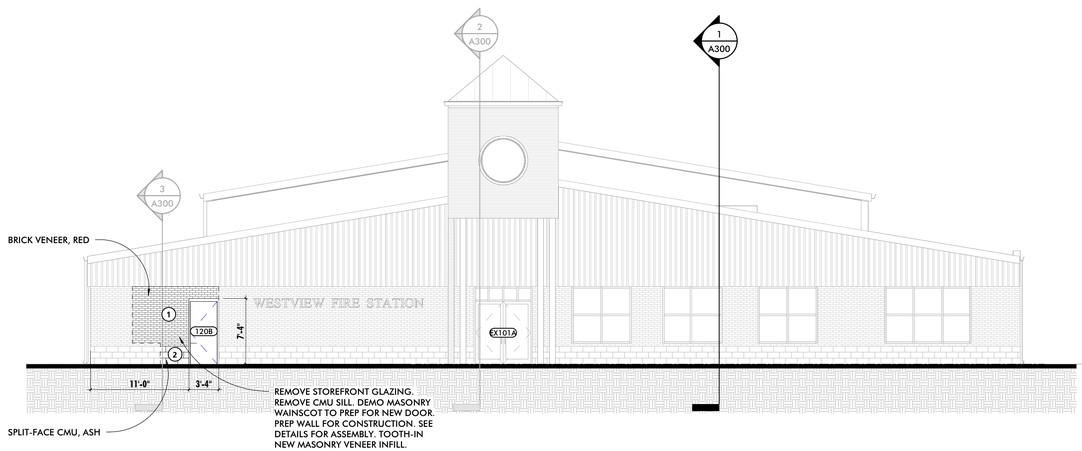


1 NORTH ELEVATION
1/8" = 1'-0"

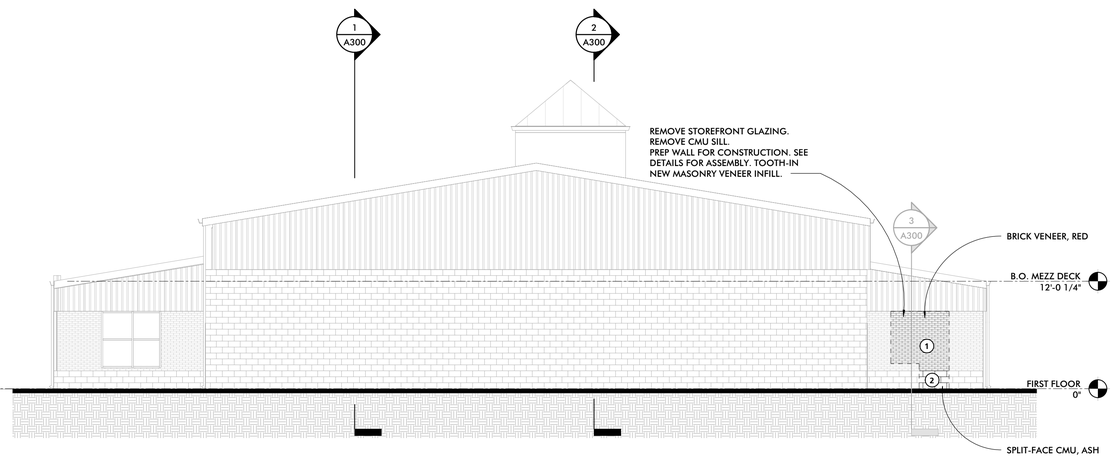


NO ALTERATIONS ARE BEING
MADE TO THIS ELEVATION

2 SOUTH ELEVATION
1/8" = 1'-0"



3 WEST ELEVATION
1/8" = 1'-0"



4 EAST ELEVATION
1/8" = 1'-0"

	REFERENCED NOTES - ELEVATIONS
1	NEW BRICK VENEER TO MATCH EXISTING BRICK VENEER IN SIZE, SHAPE AND COLOR MIX. BRICK MORTAR TO MATCH EXISTING MORTAR.
2	NEW SPLIT FACE VENEER TO MATCH EXISTING SPLIT FACE VENEER IN SIZE, SHAPE AND COLOR
3	NEW CMU VENEER TO MATCH EXISTING CMU VENEER IN SIZE, SHAPE AND COLOR

BRICK VENEER (RED): MCAVOY BRICK - TK RED
MORTAR: ARGOS LITE BUFF
GROUND FACE CMU (ASH): FIZZANO BROTHERS

SPLIT FACE CMU (ASH): FIZZANO BROTHERS

SPLIT FACE CMU (BLACK): FIZZANO BROTHERS F-71
MORTAR: WORKRITE PEWTER

5 MASONRY SELECTIONS
3/4" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION
DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

BUILDING ELEVATIONS

SHEET NUMBER:

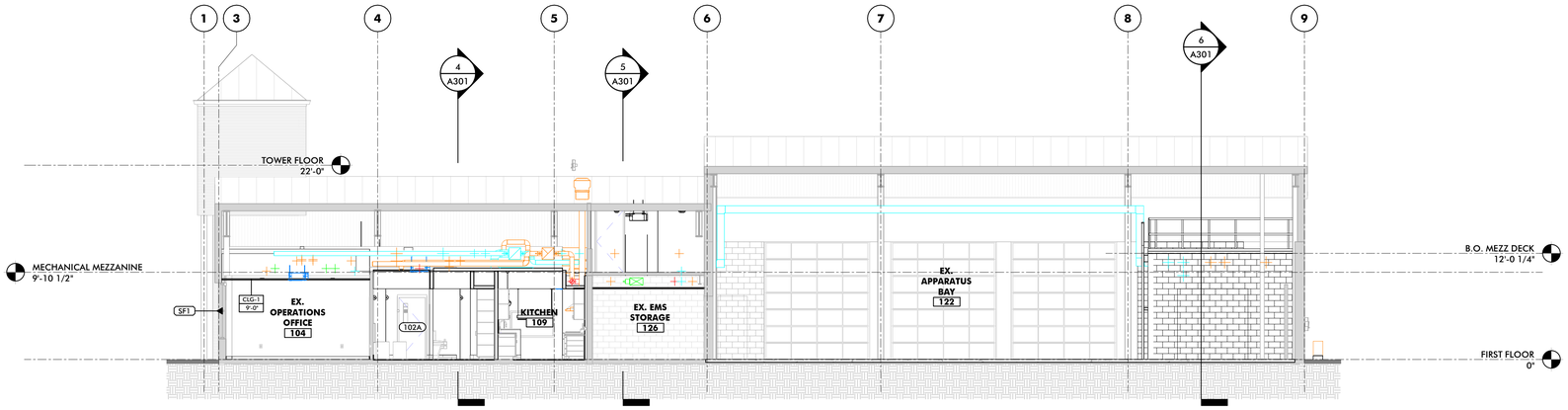
A200

4/17/2026 1:38:49 PM

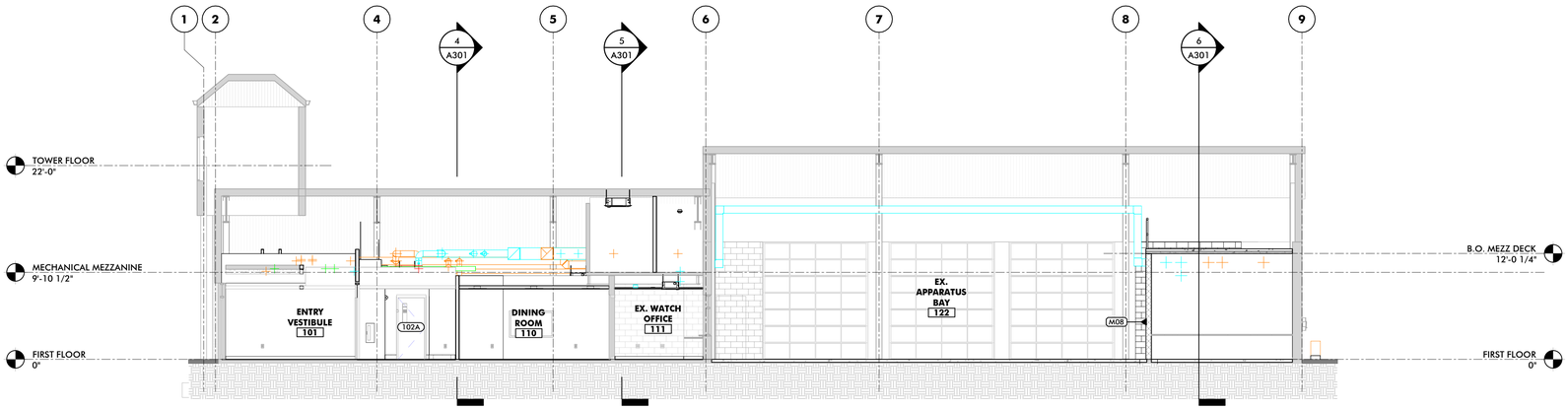
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

GENERAL BUILDING SECTION NOTES

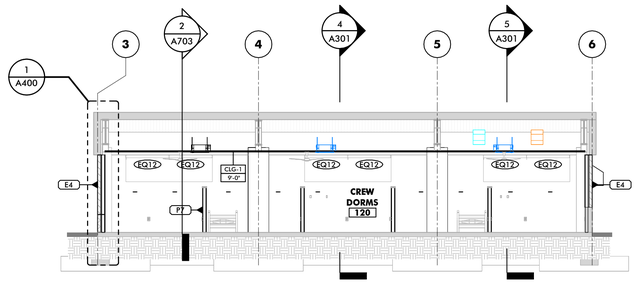
1	BUILDING SECTIONS ARE INTENDED TO SHOW OVERALL RELATIONSHIPS OF SPACES, OVERALL ASSEMBLIES, AND THE GEOMETRY OF THE BUILDING. SEE REFERENCED WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.



1 BUILDING SECTION 01
1/8" = 1'-0"



2 BUILDING SECTION 02
1/8" = 1'-0"



3 BUILDING SECTION 03
1/8" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

BUILDING SECTIONS

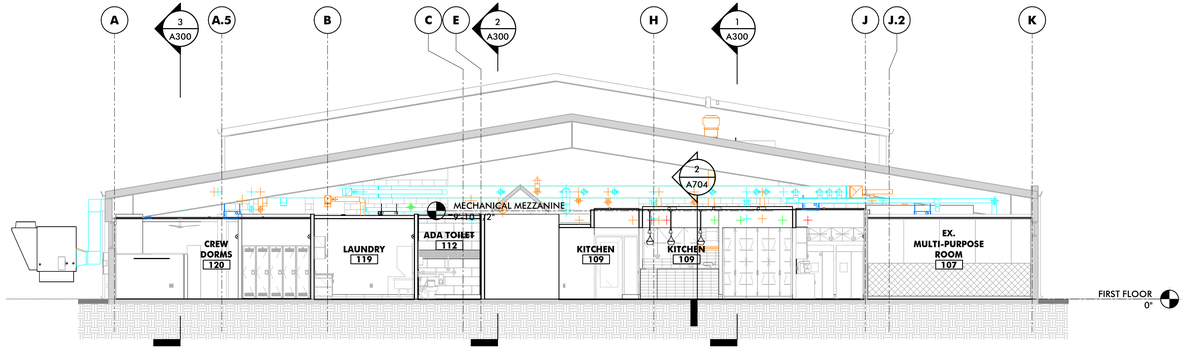
SHEET NUMBER:

A300

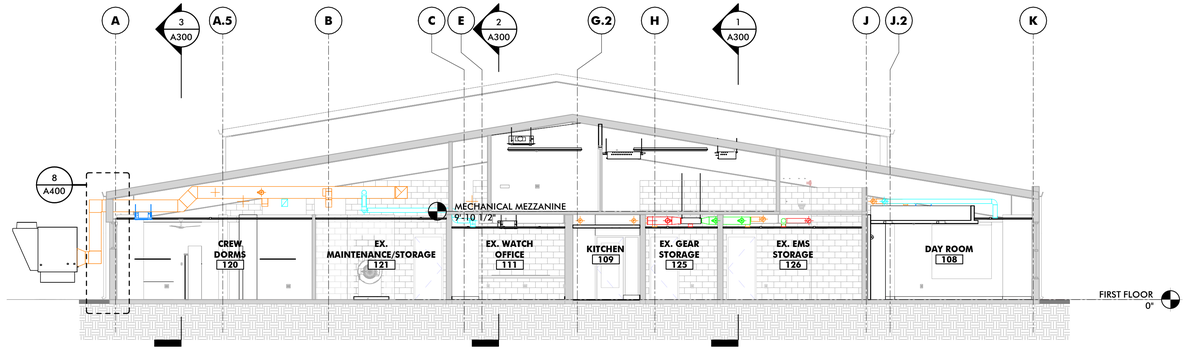
4/17/2026 1:38:50 PM

GENERAL BUILDING SECTION NOTES

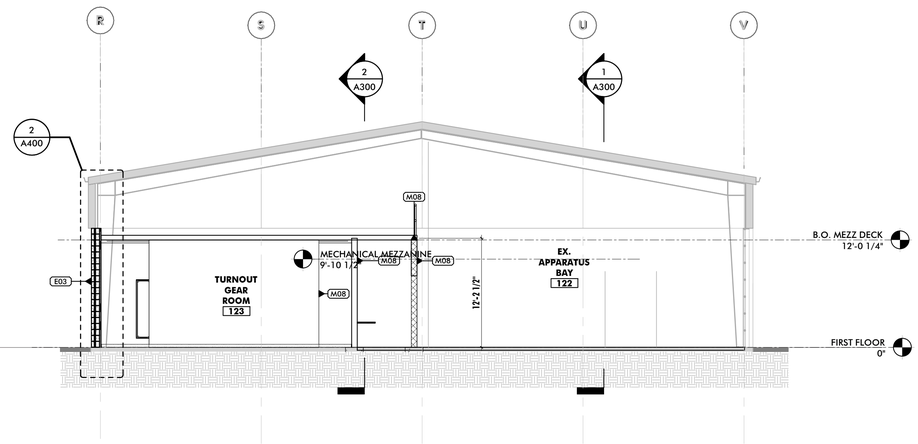
1	BUILDING SECTIONS ARE INTENDED TO SHOW OVERALL RELATIONSHIPS OF SPACES, OVERALL ASSEMBLIES, AND THE GEOMETRY OF THE BUILDING. SEE REFERENCED WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.



4 BUILDING SECTION 04
1/8" = 1'-0"



5 BUILDING SECTION 05
1/8" = 1'-0"



6 BUILDING SECTION 06
1/8" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

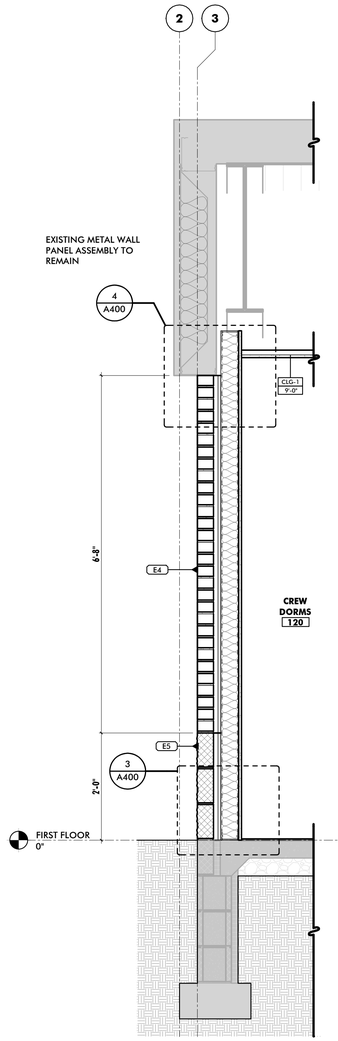
SHEET REVISION SCHEDULE:
No. DATE

BUILDING SECTIONS

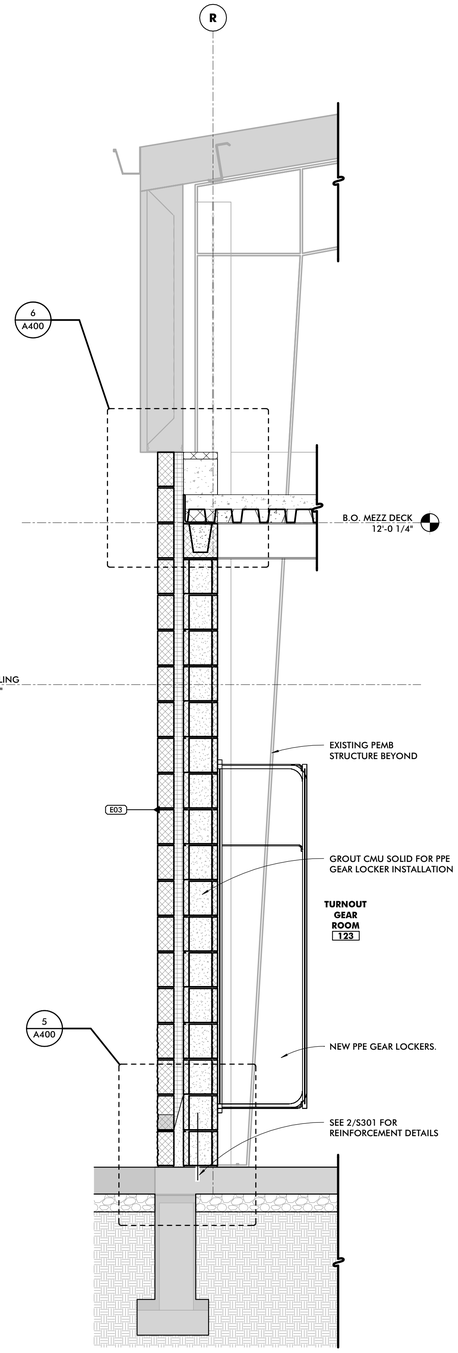
SHEET NUMBER:

A301

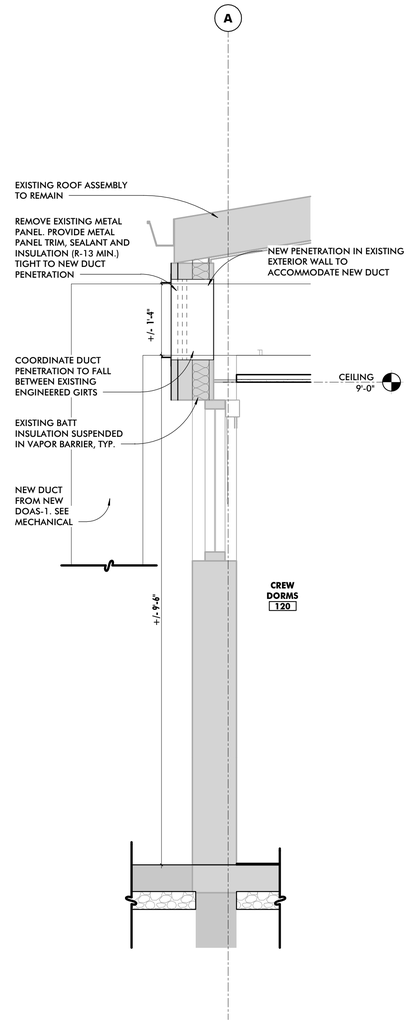
4/17/2026 1:38:52 PM



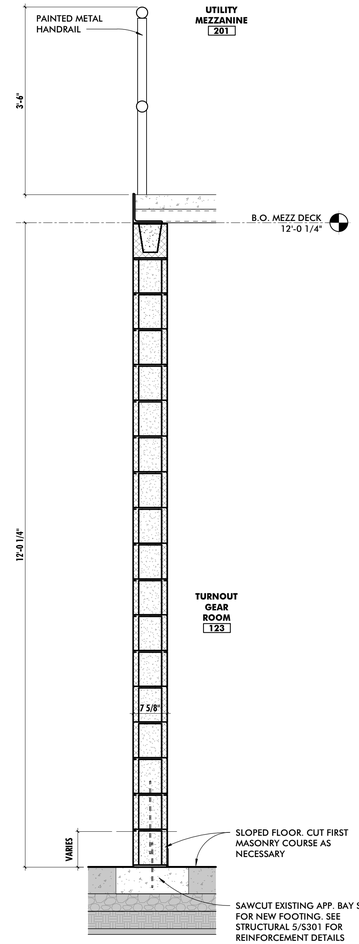
1 WALL SECTION @ STOREFRONT INFILL
3/4" = 1'-0"



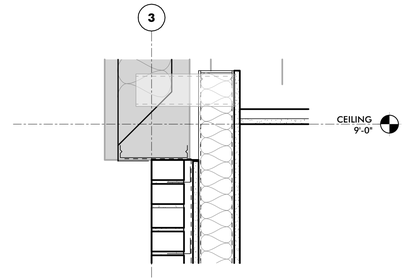
2 WALL SECTION @ OH DOOR INFILL
3/4" = 1'-0"



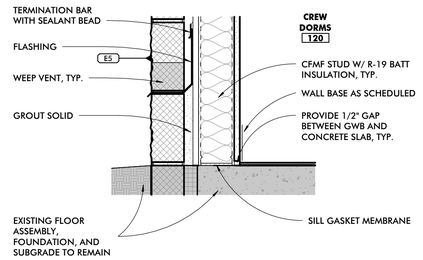
8 WALL SECTION AT DOAS-1
3/4" = 1'-0"



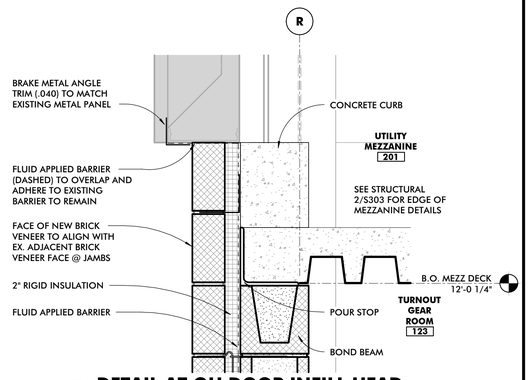
7 WALL SECTION @ PPE GEAR ROOM
3/4" = 1'-0"



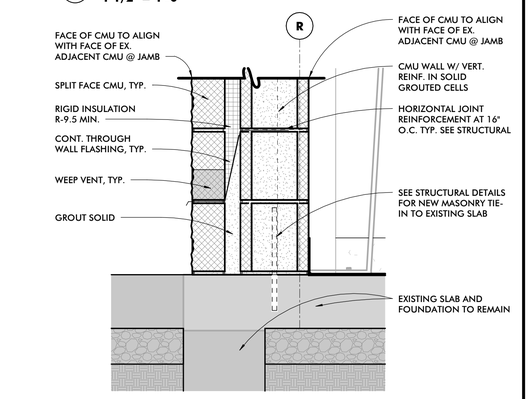
4 DETAIL AT STOREFRONT INFILL HEAD
1 1/2" = 1'-0"



3 DETAIL AT STOREFRONT INFILL BASE
1 1/2" = 1'-0"



6 DETAIL AT OH DOOR INFILL HEAD
1 1/2" = 1'-0"



5 DETAIL AT OH DOOR INFILL BASE
1 1/2" = 1'-0"

STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

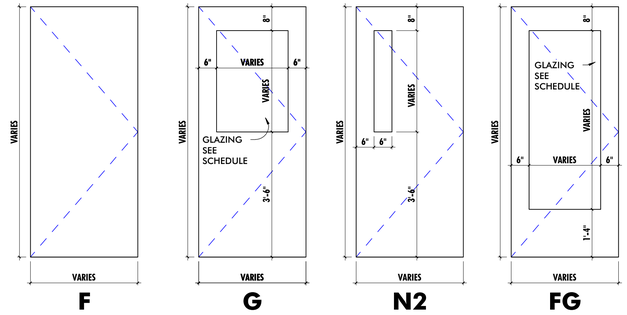
WALL SECTIONS

SHEET NUMBER:

A400

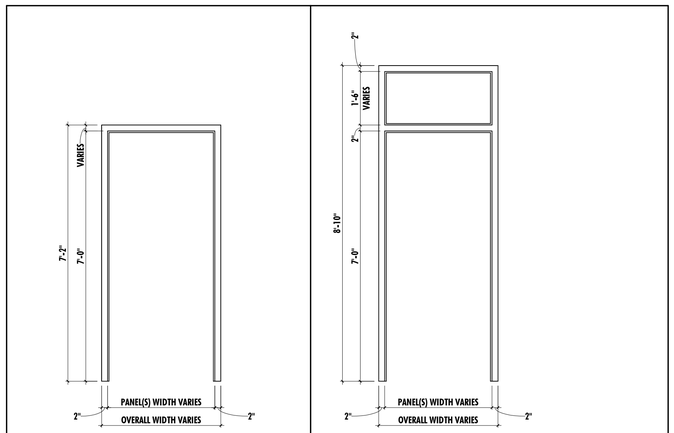
4/17/2026 1:38:53 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1. SEE DOOR SCHEDULE FOR ACTUAL PANEL DIMENSIONS.
2. NOT ALL PANEL TYPES MAY BE USED IN THIS PROJECT, SEE DOOR SCHEDULE.
3. DIMENSIONS FOR GLAZING INDICATED SHALL CONSTITUTE THE FULL GLAZING WIDTH.
4. SEE STOREFRONT ELEVATIONS FOR CURTAIN WALL / STOREFRONT ENTRANCE

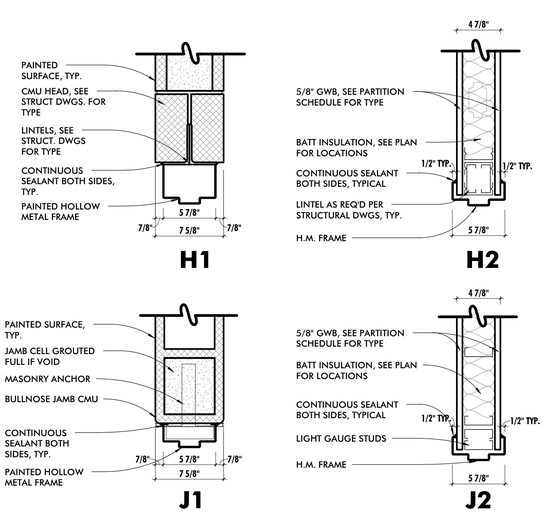
DOOR PANEL TYPES
1/2" = 1'-0"



HM ST HOLLOW METAL STANDARD FRAME

HM TR HOLLOW METAL FRAME WITH TRANSOM CONFIGURATION TYPE A

FRAME TYPES
1/2" = 1'-0"



DOOR FRAME HEAD & JAMB DETAILS
1 1 1/2" = 1'-0"

SCHEDULE - DOOR

MARK	DOOR PANEL SIZE	DOOR PANEL TYPE	DOOR PANEL THICKNESS	DOOR PANEL MATERIAL	FRAME TYPE	FRAME SIZE SUMMARY OVERALL HEIGHT	FRAME SIZE SUMMARY OVERALL WIDTH	FRAME MATERIAL	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	RATINGS FIRE (IN MINUTES)	HARDWARE SET	COMMENTS
101B	(2) 3'-0" x 7'-0"	PANEL : FG	1 3/4"	AL	HM TR	8'-10"	6'-4"	AL	- -	- -	TS-1		1	
102A	3'-0" x 7'-0"	PANEL : N2	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	- -		2	
106A	3'-0" x 7'-0"	PANEL : F	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	TS-4	20	3	
112A	3'-0" x 7'-0"	PANEL : F	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	TH-3		4	
114A	3'-0" x 7'-0"	PANEL : F	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	TH-3		4	
115A	3'-0" x 7'-0"	PANEL : F	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	TH-3		4	
116A	2'-6" x 7'-0"	PANEL : F	1 3/4"	WD	HM ST	7'-2"	2'-10"	HM	- -	- -	- -		5	
117A	3'-0" x 7'-0"	PANEL : F	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	TH-3		4	
118A	3'-0" x 7'-0"	PANEL : F	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	TH-3		4	
119A	3'-0" x 7'-0"	PANEL : G	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	TS-4		6	
120A	3'-0" x 7'-0"	PANEL : N2	1 3/4"	WD	HM ST	7'-2"	3'-4"	HM	- -	- -	TS-2	20	3	
120B	3'-0" x 7'-0"	PANEL : F	1 3/4"	AL	HM ST	7'-2"	3'-4"	HM	- -	- -	TH-5		7	
121B	48" x 7'-0"	PANEL : F	1 3/4"	HM	HM ST	7'-2"	4'-0"	HM	- -	- -	- -		8	
123A	3'-0" x 7'-0"	PANEL : G	1 3/4"	HM	HM ST	7'-2"	3'-4"	HM	- -	- -	TH-7		2	
123B	3'-0" x 7'-0"	PANEL : G	1 3/4"	HM	HM ST	7'-2"	3'-4"	HM	- -	- -	TH-7		2	
M02	3'-0" x 7'-0"	PANEL : F	1 3/4"	- -	HM ST	7'-2"	3'-4"	- -	- -	- -	- -			

GENERAL DOOR NOTES

1	CONTRACTOR SHALL FIELD VERIFY ALL EXISTING OPENINGS/MODIFIED OPENINGS PRIOR TO FABRICATION OF DOORS AND FRAMES.
2	DETAILS MAY VARY AT EACH DOOR. VERIFY EACH CONDITION IN FIELD.
3	SEE PARTITION SCHEDULE, FLOOR PLAN, AND STRUCTURAL DRAWINGS FOR CONSTRUCTION OF WALLS AND PARTITIONS.
4	NEW FRAMES IN EXISTING OPENINGS SHALL RECEIVE COUNTER SUNK MASONRY EXPANSION JAMB ANCHORS, 1/2" DIAMETER, IN LIEU OF MASONRY WIRE JAMB ANCHORS.
5	ALL DOORS SHALL BE SET WITHIN OPENINGS TO ENSURE ADA APPROACH COMPLIANCE AS INDICATED ON SHEET G010
6	MOISTURE RESISTANT GYPSUM WALL BOARD SHALL BE UTILIZED IN ALL AREAS WHERE GYPSUM WALL BOARD IS TO BE DIRECTLY ADHERED TO CONCRETE OR MASONRY SURFACES IN INTERIOR APPLICATIONS. SUBSTRATE SHALL BE CLEANED AS REQUIRED AND FREE OF DUST, DEBRIS, AND MOISTURE PRIOR TO ADHESION AND FINISHING.
7	AT WALLS WITH SOUND ATTENUATION BLANKETS, CONTRACTOR SHALL SEAL DOOR FRAMES, GLAZED OPENING FRAMES, INTERSECTIONS, AND OTHER PENETRATIONS WITH ACOUSTICAL SEALANT.

FREDERICK COUNTY, MARYLAND DOOR HARDWARE REQUIREMENTS

ALL COMPONENTS MUST BE PER CURRENT FREDERICK COUNTY GOVERNMENT DOOR HARDWARE SPECIFICATIONS.
- BEST 9K CYLINDRICAL LOCKS WITH 15D SERIES HANDLE AND ROSETTE NO SUBSTITUTIONS
- ALL EXIT DEVICES SHALL BE VON DUPRIN 99/33 SERIES, NO ELECTRIFIED DEVICES PERMITTED.
- NO CONCEALED OR SURFACE MOUNTED VERTICAL RODS PERMITTED.
- DOORS REQUIRING CARD ACCESS SHOULD BE DONE WITH ELECTRIFIED STRIKES.

HW SET #	DOOR #	QTY	ITEM	DESCRIPTION	COMMENTS
Set 1	Interior Double Door, w/ Panic Hardware				
	Door 101B				
		6	Butt Hinges		
		1	Automatic Flush Bolt, inactive leaf		
		1	Cylindrical Lockset	Passage Function (ANSI F01)	
		2	Surface Closer		
		4	Kick Plate	1-1/2" LDW	
		2	Wall-Mounted Stop		
		1	Perimeter Gasketing		
		3	Silencers		
		1	Meeting Stile Gasketing		
Set 2	Interior Non-Latching Single Door				
	Door 102A, 123A, 123B				
		3	Butt Hinges		
		1	Push Plate		
		1	Fixed Pull		
		1	Closer		
		2	Kick Plate	1-1/2" LDW	
		1	Wall-Mounted Stop		
		3	Silencers		
Set 3	Interior Free Passage Single Door, Fire Rated - 20 Min.				
	Door 106A, 120A				
		3	Butt Hinges		
		1	Cylindrical Latchset	Passage Function (ANSI F01)	
		2	Kick Plate	1-1/2" LDW	
		1	Wall-Mounted Stop		
		1	Perimeter Gasketing		
		3	Silencers		
Set 4	Typical Single Occupant Toilet Room Door				
	Door 112A, 114A, 115A, 117A, 118A				
		3	Butt Hinges		
		1	Cylindrical Lockset w/ Occupancy Indicator	Privacy Function (ANSI F02)	
		2	Kick Plate	1-1/2" LDW	
		1	Wall-Mounted Stop		
		1	Perimeter Gasketing		
		3	Silencers		
		1	Coat Hook		

HW SET #	DOOR #	QTY	ITEM	DESCRIPTION	COMMENTS
Set 5	Janitor Closet, Single Door				
	Door 116A				
		3	Butt Hinges		
		2	Armor Plates	1-1/2" LDW	
		3	Silencers		
		1	Floor Stop		
Set 6	Typical Interior, Latching Door				
	Door 119A				
		3	Butt Hinges		
		1	Cylindrical Lockset	Passage Function (ANSI F01)	
		1	Surface Closer		
		2	Kick Plates	1-1/2" LDW	
		3	Silencers		
		1	Level Door Holder		
Set 7	Exterior, Single Door w/ Panic Hardware				
	Door 120B				
		1	Continuous Hinge		
		1	Cylindrical Exit Device - Exit Only		
		1	Surface Closer		
		1	Perimeter Weatherstripping		
		1	Door Sweep w/ drip cap		
		1	ADA Accessible Aluminum Threshold		
Set 8	Typical Interior, Latching Door, Utility Space				
	Door 121B				
		3	Butt Hinges		
		1	Cylindrical Lockset	Passage Function (ANSI F01)	
		1	Wall Stop		
		2	Kick Plates	1-1/2" LDW	
		3	Silencers		
Set 9	Double Interior, Latching Door, Utility Space				
	Door 124A				
		6	Butt Hinges		
		1	Cylindrical Lockset	Storeroom Function (ANSI F07)	
		2	Wall Stop		
		4	Kick Plates	1-1/2" LDW	
		6	Silencers		
		1	Astragal w/ flushbolt		On inactive leaf

DOOR HARDWARE
3/4" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

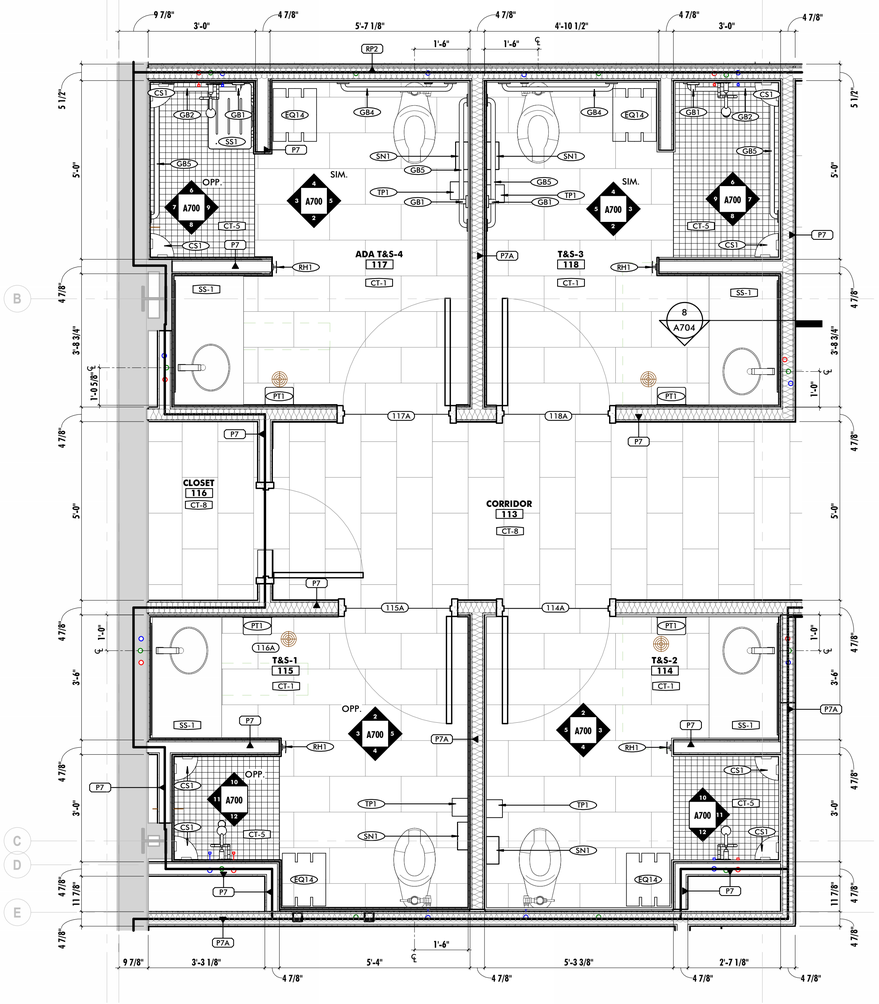
SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

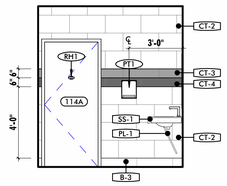
DOOR/WINDOW SCHEDULE & DETAILS

SHEET NUMBER:
A600

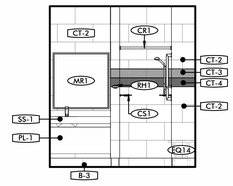
4/17/2026 1:38:53 PM



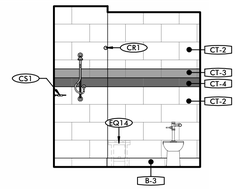
1 T&S 16, 17, 18, & 19 - ENLARGED PLAN
1/2" = 1'-0"



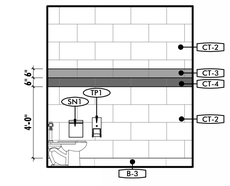
2 T&S-2 17 - NORTH
1/4" = 1'-0"



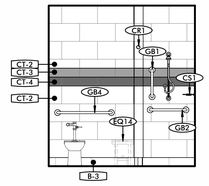
3 T&S-2 17 - EAST
1/4" = 1'-0"



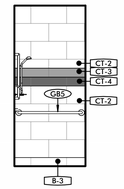
4 T&S-2 17 - SOUTH
1/4" = 1'-0"



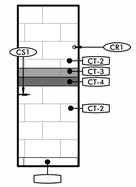
5 T&S-2 17 - WEST
1/4" = 1'-0"



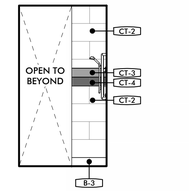
6 TYPICAL ADA SHOWER STALL T&S 3 - NORTH
1/4" = 1'-0"



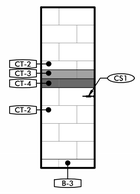
7 TYPICAL ADA SHOWER STALL T&S 3 - EAST
1/4" = 1'-0"



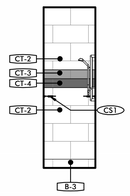
8 TYPICAL ADA SHOWER STALL T&S 3 - SOUTH
1/4" = 1'-0"



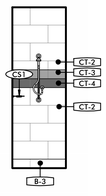
9 TYPICAL ADA SHOWER STALL T&S 3 - WEST
1/4" = 1'-0"



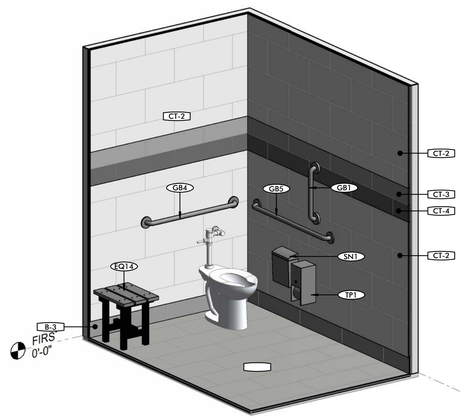
10 TYPICAL SHOWER STALL T&S SHOWER 2 - NORTH
1/4" = 1'-0"



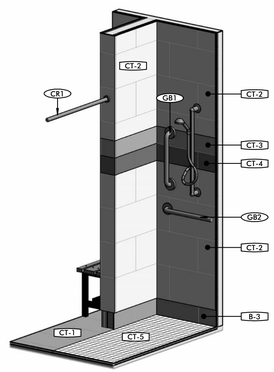
11 TYPICAL SHOWER STALL T&S SHOWER 2 - EAST
1/4" = 1'-0"



12 TYPICAL SHOWER STALL T&S SHOWER 2 - SOUTH
1/4" = 1'-0"



13 T&S-4 17 TOILET - AXON VIEW



14 T&S-4 17 SHOWER - AXON VIEW

GENERAL NOTES

1	SOAP DISPENSER TO BE PROVIDED & INSTALLED BY OWNER.

SCHEDULE - TOILET ROOM ACCESSORIES

MARK	DESCRIPTION	BOD MANUFACTURER	BOD MODEL	COMMENTS
	Occult Series Solid Door	Bison	O-2409	
CR1	HEAVY DUTY SHOWER CURTAIN ROD	BOBRICK	B-6107	
CS1	9" MOUNTED PURE WHITE MARBLE COMPOSITE CORNER SHELF	MOSAIC TILE	- -	
GB1	18" VERTICAL GRAB BAR	BOBRICK	B-5806-18	
GB2	24" HORIZONTAL GRAB BAR	BOBRICK	B-5806-24	
GB4	36" HORIZONTAL GRAB BAR	BOBRICK	B-5806-36	
GB5	42" HORIZONTAL GRAB BAR	BOBRICK	B-5806-42	
MR1	36" x 36" CHANNEL FRAME MIRROR	AMERICAN SPECIALTIES	0620-3636	
MR2	30" x 36" CHANNEL FRAME MIRROR	AMERICAN SPECIALTIES	0620-3036	
PT1	HAND TOWEL PAPER TOWEL MANUAL DISPENSER	TORK	772720-H71	
RH1	ROBE HOOK	AMERICAN SPECIALTIES	7345-B	
SN1	SANITARY NAPKIN DISPOSAL	BRADLEY CORPORATION	4A10	
SS1	SHOWER SEAT	BOBRICK	B-5192	
TP1	BATH TISSUE ROLL DISPENSER	TORK	T10	

PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW WALL/PARTITION
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED (SEE DEMO PLANS)
- NEW DOOR

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

STATE OF MARYLAND · CRAIG A. WOODWARD · 15505 · ARCHITECT

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

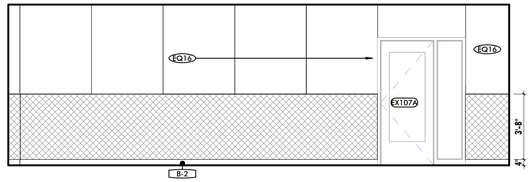
SHEET REVISION SCHEDULE:
No. DATE

ENLARGED PLANS & INT. ELEVATIONS

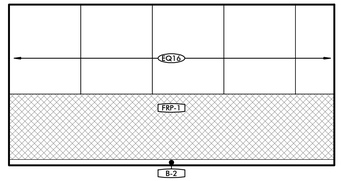
SHEET NUMBER:

A700

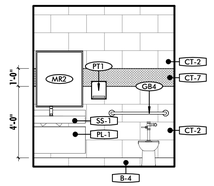
4/17/2026 1:38:57 PM



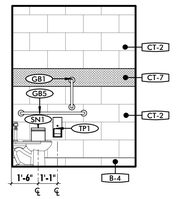
17 EX. MULTI-PURPOSE ROOM 107 - NORTH
1/4" = 1'-0"



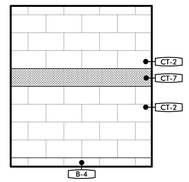
16 EX. MULTI-PURPOSE ROOM 107 - EAST
1/4" = 1'-0"



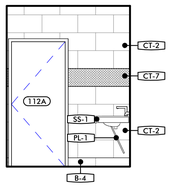
2 ADA TOILET 112 - NORTH
1/4" = 1'-0"



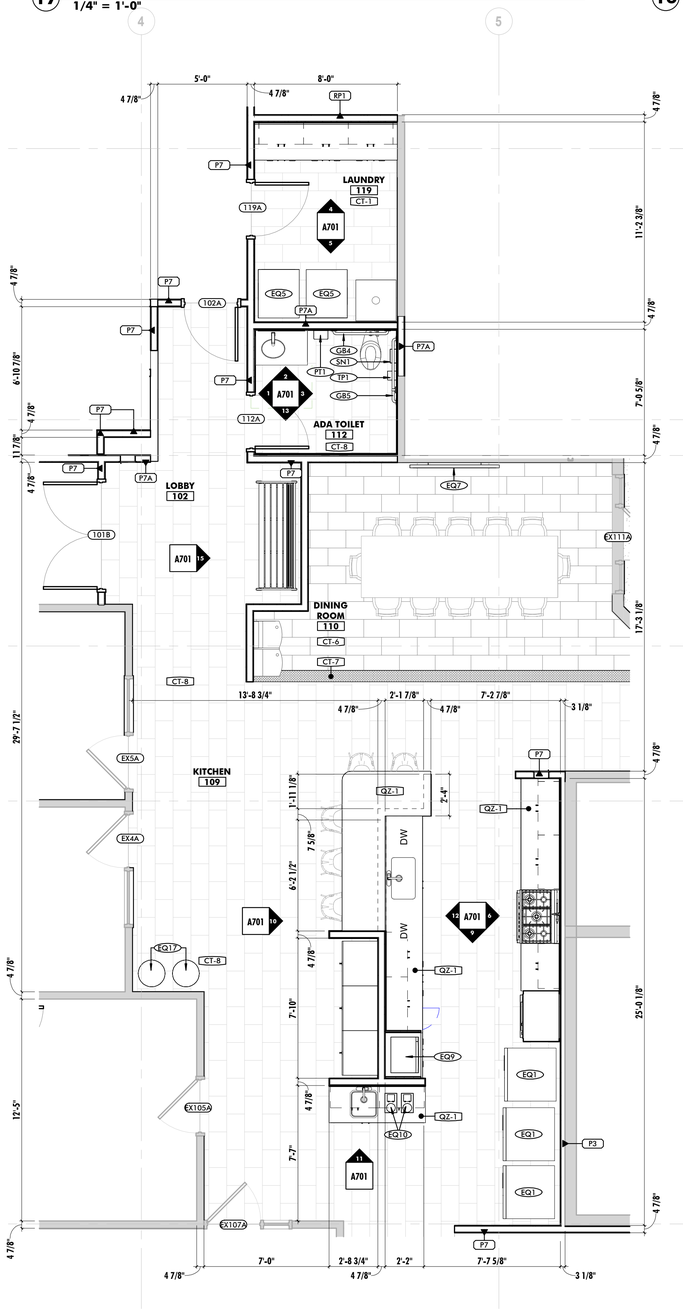
3 ADA TOILET 112 - EAST
1/4" = 1'-0"



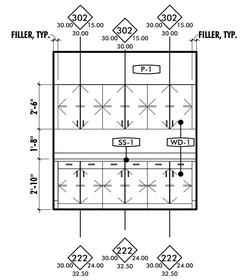
13 ADA TOILET 112 - SOUTH
1/4" = 1'-0"



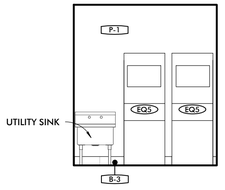
1 ADA TOILET 112 - WEST
1/4" = 1'-0"



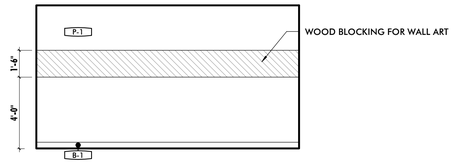
8 KITCHEN 12 & DINING ROOM 14
1/4" = 1'-0"



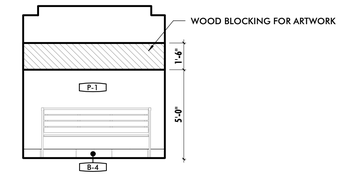
4 LAUNDRY 21 - NORTH
1/4" = 1'-0"



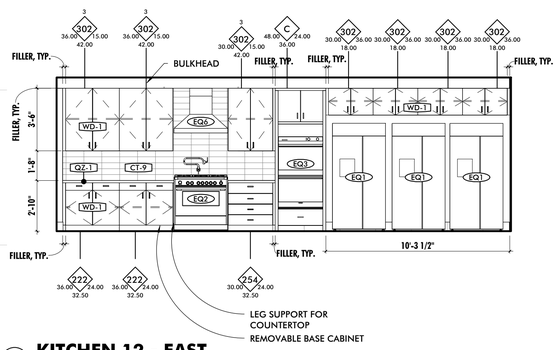
5 LAUNDRY 21 - SOUTH
1/4" = 1'-0"



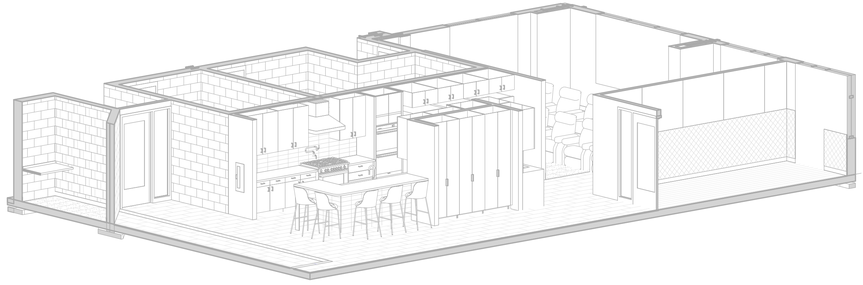
14 ENTRY VESTIBULE 101 - NORTH & SOUTH
1/4" = 1'-0"



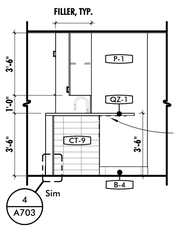
15 LOBBY 102 - EAST
1/4" = 1'-0"

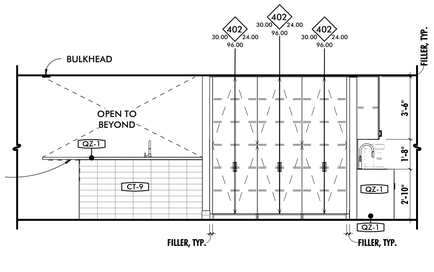


6 KITCHEN 12 - EAST
1/4" = 1'-0"



7 KITCHEN AXON

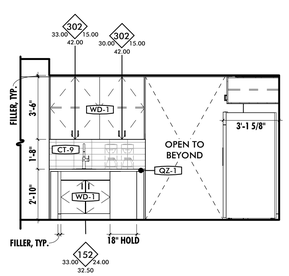




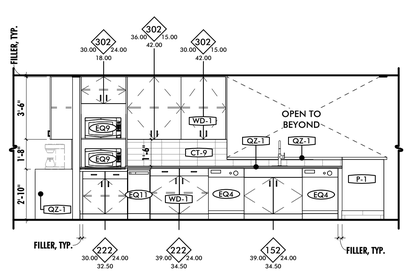
CONCEALED METAL BRACKETS

9 KITCHEN ISLAND 12 - NORTH
1/4" = 1'-0"

10 KITCHEN 12 ISLAND - EAST
1/4" = 1'-0"



11 KITCHEN ISLAND 12 - SOUTH
1/4" = 1'-0"



12 KITCHEN ISLAND 12 - WEST
1/4" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

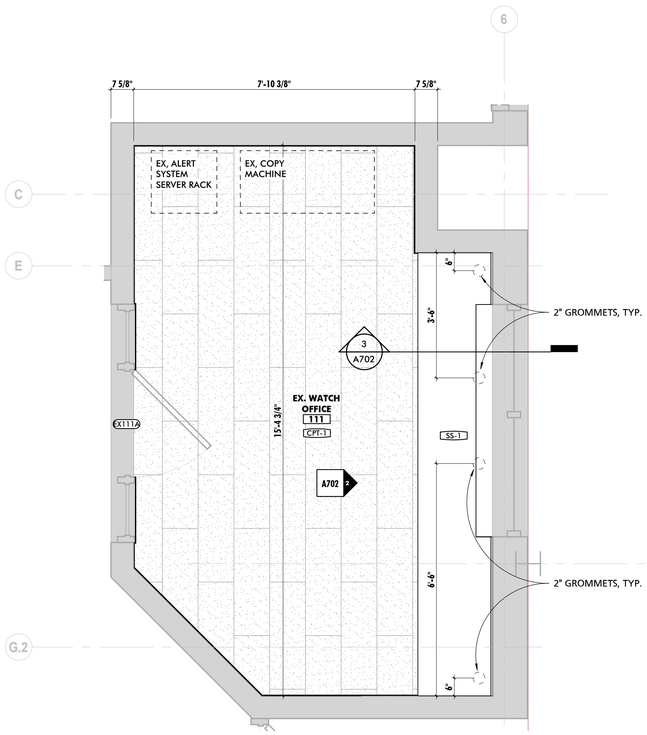
SHEET REVISION SCHEDULE:
No. DATE

ENLARGED PLANS & INT. ELEVATIONS

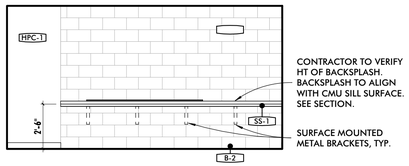
SHEET NUMBER:

A701

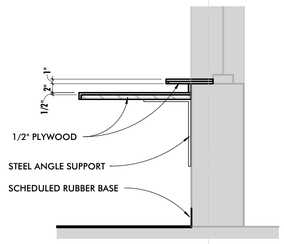
4/17/2026 1:39:12 PM



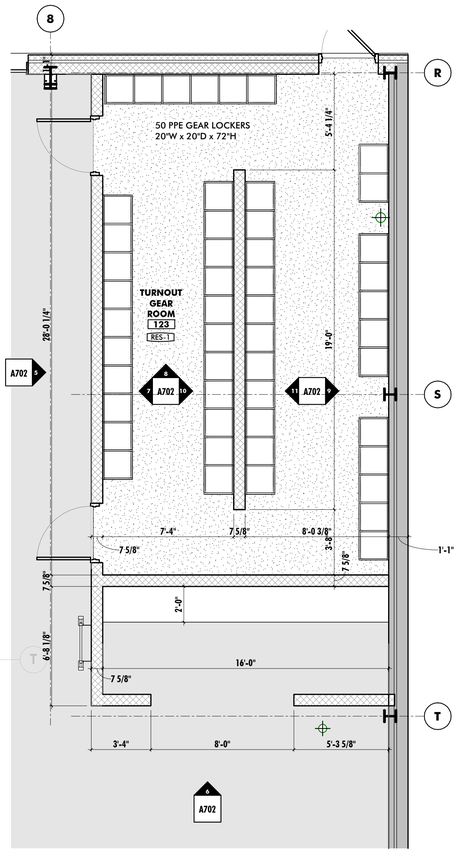
1 EX. WATCH OFFICE ENLARGED PLAN
1/2" = 1'-0"



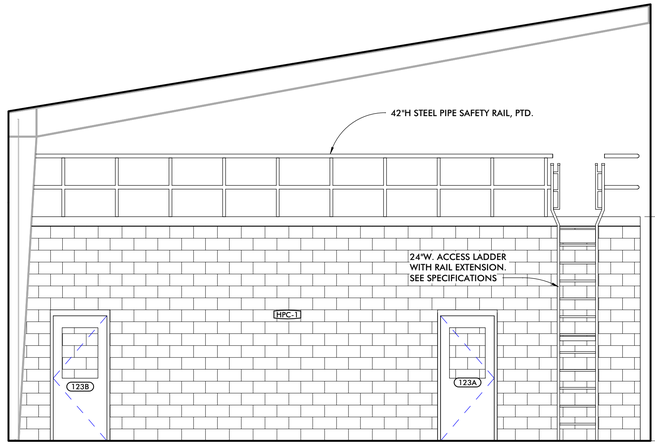
2 WATCH OFFICE 10 - EAST
1/4" = 1'-0"



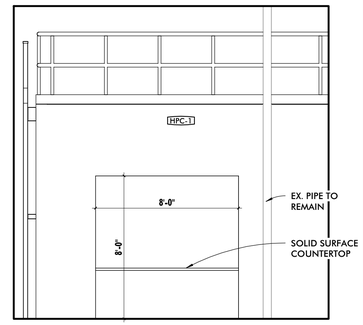
3 WATCH OFFICE COUNTERTOP SECTION
3/4" = 1'-0"



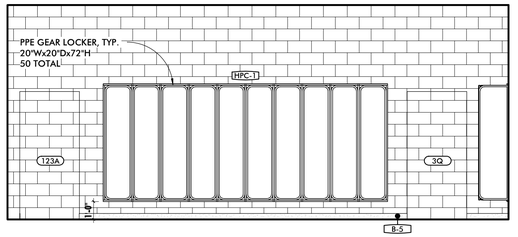
4 ENLARGED PPE GEAR ROOM
1/4" = 1'-0"



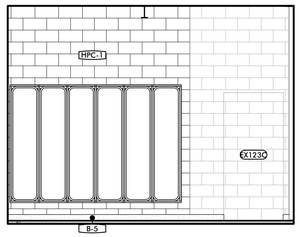
5 EX. APP BAY 122 - EAST
1/4" = 1'-0"



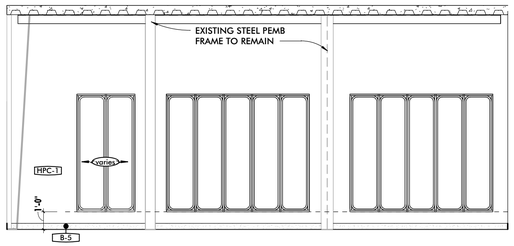
6 EX. APP BAY 122 - NORTH
1/4" = 1'-0"



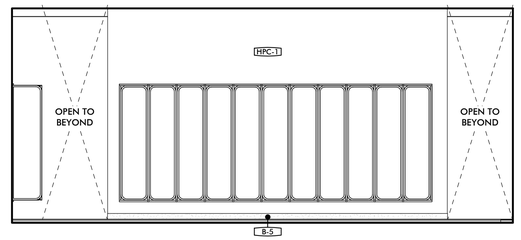
7 TURNOUT GEAR 123 - WEST 1
1/4" = 1'-0"



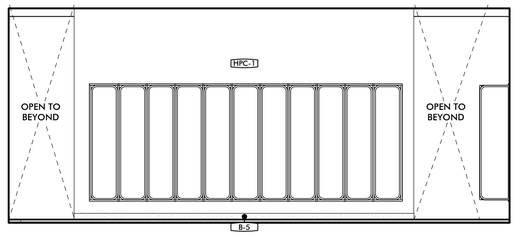
8 TURNOUT GEAR 123 - NORTH
1/4" = 1'-0"



9 TURNOUT GEAR 123 - EAST 1
1/4" = 1'-0"



10 TURNOUT GEAR 123 - EAST 2
1/4" = 1'-0"



11 TURNOUT GEAR 123 - WEST 2
1/4" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

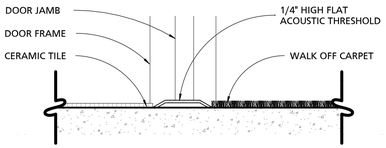
SHEET REVISION SCHEDULE:
No. DATE

ENLARGED PLANS & INT. ELEVATIONS

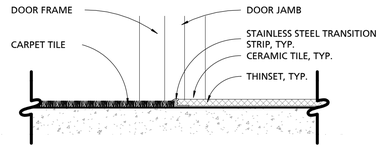
SHEET NUMBER:
A702

4/17/2026 1:39:03 PM

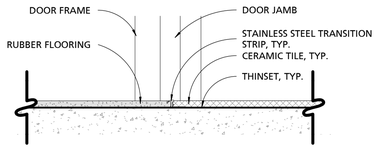
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



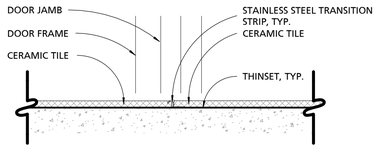
TS-1
CERAMIC TILE - WALK OFF CARPET



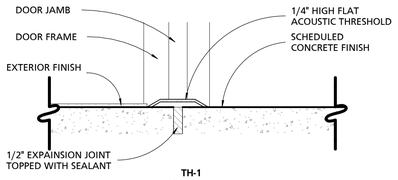
TS-2
CARPET TILE - CERAMIC TILE



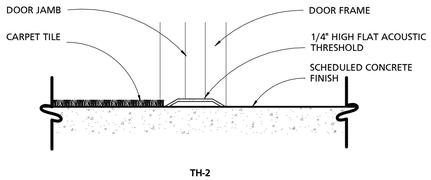
TS-3
RUBBER FLOORING - CERAMIC TILE



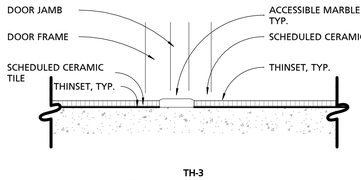
TS-4
CERAMIC TILE - CERAMIC TILE



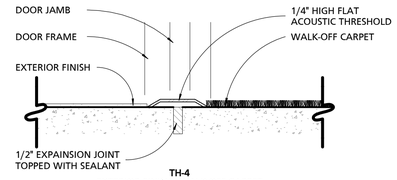
TH-1
EXTERIOR FINISH - SEALED CONCRETE



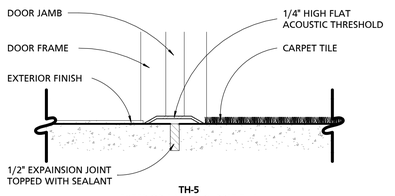
TH-2
CARPET TILE - SEALED CONCRETE



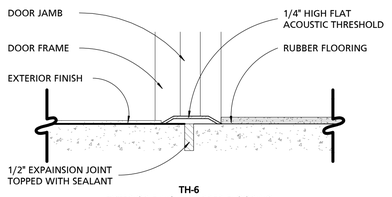
TH-3
CERAMIC TILE - CERAMIC TILE



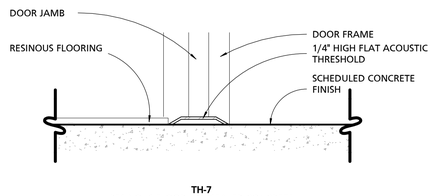
TH-4
EXTERIOR FINISH - WALK-OFF CARPET



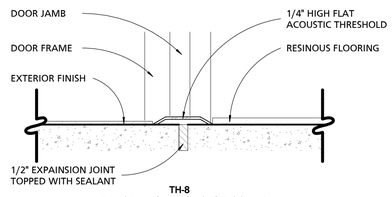
TH-5
EXTERIOR FINISH - CARPET TILE



TH-6
EXTERIOR FINISH - RUBBER FLOORING

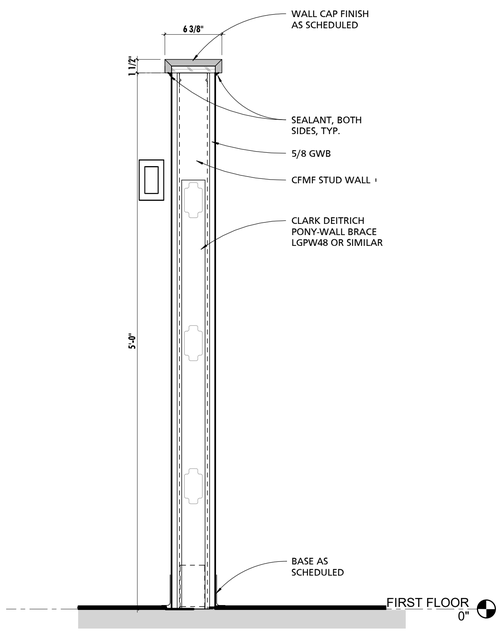


TH-7
RESINOUS FLOORING - SEALED CONCRETE

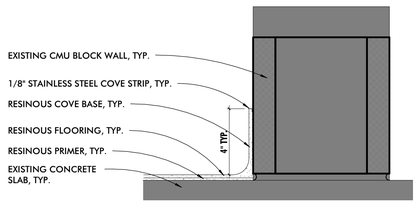


TH-8
EXTERIOR FINISH - RESINOUS FLOORING

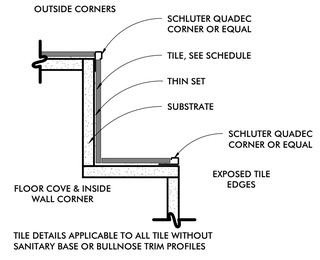
1 TRANSITION & THRESHOLD DETAILS
3" = 1'-0"



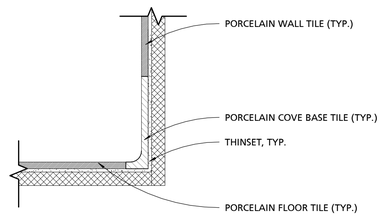
2 BUNK ROOM PONY WALL SECTION
1 1/2" = 1'-0"



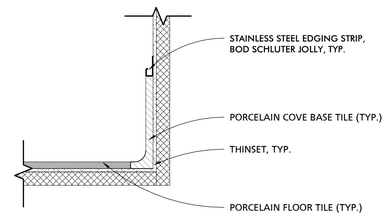
3 RESINOUS COVE BASE @ MASONRY
3" = 1'-0"



4 TYPICAL TILE EDGE DETAILS
3" = 1'-0"



5 PORCELAIN TILE FLOOR AT PORCELAIN WALL TILE
3" = 1'-0"



6 PORCELAIN TILE BASE
3" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

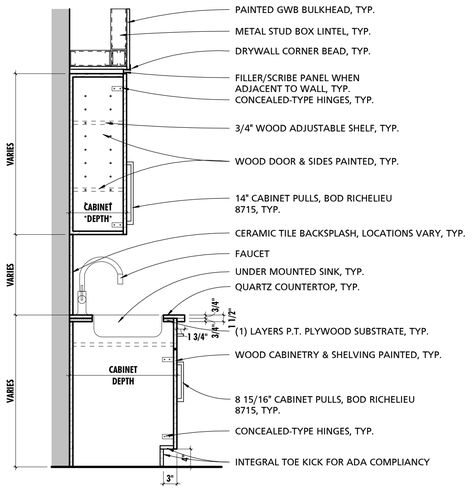
SHEET REVISION SCHEDULE:
No. DATE

INTERIOR DETAILS

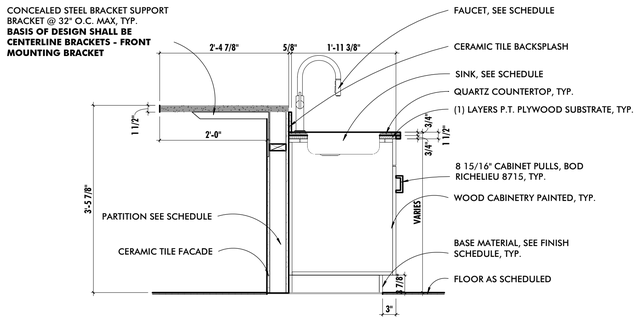
SHEET NUMBER:

A703

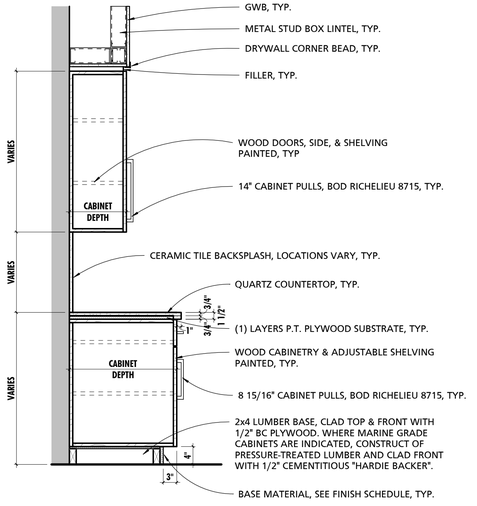
4/17/2026 1:39:04 PM



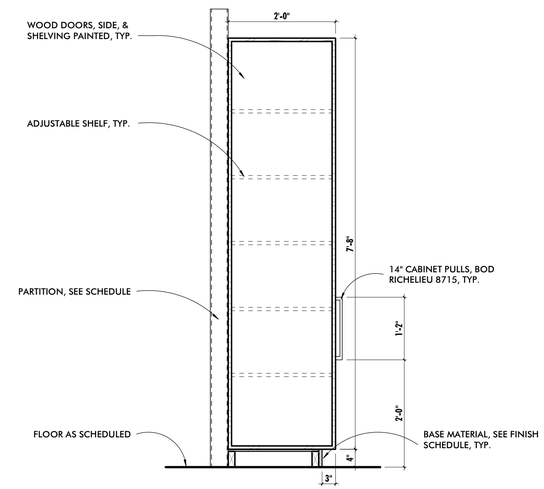
1 TYPICAL CASEWORK SECTION @ SINK
3/4" = 1'-0"



2 TYPICAL KITCHEN ISLAND @ SINK SECTION
3/4" = 1'-0"



3 TYPICAL COUNTERTOP CASEWORK SECTION
3/4" = 1'-0"

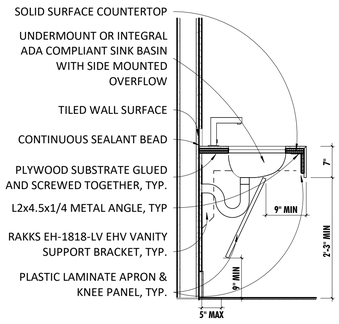


4 TYPICAL PANTRY CABINET SECTION
3/4" = 1'-0"

5 TYPICAL DOUBLE OVEN SECTION
3/4" = 1'-0"

6 TYPICAL MICROWAVE SECTION
3/4" = 1'-0"

7 TYPICAL RANGE SECTION
3/4" = 1'-0"



1. CONTRACTOR RESPONSIBLE FOR ENSURING ALL FABRICATED CASEWORK CONFORMS WITH ADA REQUIREMENTS. SEE ADA CODE SHEET FOR ADDITIONAL INFORMATION RELATED TO CLEARANCE REQUIREMENTS.
2. SEE INTERIOR ELEVATIONS FOR WALL FINISHES AND BACK SPLASH REQUIREMENTS
3. ALL COUNTERS SHALL BE SEAMLESS UNLESS NOTED OTHERWISE.

8 TYPICAL LAVATORY DETAIL
3/4" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #18505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

INTERIOR DETAILS

SHEET NUMBER:

A704

4/17/2026 1:39:04 PM

SCHEDULE - CEILING TYPES

MARK	DESCRIPTION	BOD MANUFACTURER	BOD MODEL	COMMENTS
CLG-1	2x2 ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA SQUARE LAY-IN 1940	
CLG-2	5/8" GWB ON 3 5/8" METAL STUDS @ 16" O.C.	N/A	N/A	
CLG-3	5/8" MOISTURE RESISTANT GWB ON 3 5/8" METAL STUDS @ 16" O.C.	N/A	N/A	

GENERAL CEILING NOTES

1	UNDERSIDE OF EXPOSED STRUCTURE, PIPING, AND DUCTWORK IN ALL ROOMS, STAIRWAYS, AND OTHER SPACES SHALL BE PAINTED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL COORDINATE COLOR SELECTION WITH THE ARCHITECT PRIOR TO PAINTING OR PRIMING, TYP.
2	CONTRACTOR SHALL COORDINATE FINAL FIELD LOCATION OF ALL EXIT SIGNS AND EMERGENCY LIGHTING WITH ARCHITECT PRIOR TO ROUGH-IN, TYP.
3	***APPARATUS BAYS ONLY*** CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS WITHIN THE APPARATUS BAY AREA INDICATING, WHERE APPLICABLE, THE VEHICLE EXHAUST SYSTEMS, SPRINKLER SYSTEM, OVERHEAD DOOR TRACKS, HEATERS (INCLUDING COMBUSTIBLE CLEARANCE REQUIREMENTS), LIGHTING, RETRACTABLE DROP DOWN CORDS, INTERIOR STORMDRAIN PIPING, FANS. COORDINATION DRAWINGS AT A MINIMUM SHALL INCLUDE PLANS AND BOTH LONGITUDINAL AND TRANSVERSE SECTIONS THROUGH THE BAYS INDICATING THE LOCATION AND ELEVATION OF BAY SYSTEM COMPONENTS.
4	ALL MECHANICAL, ELECTRICAL, PLUMBING, AND SPRINKLER WORK TO OCCUR IN AREAS WHERE THE STRUCTURE IS EXPOSED SHALL BE EXECUTED IN A COORDINATED, NEAT AND WORKMANLIKE MANNER. AT A MINIMUM ALL WIRING SHALL BE RUN THOUGH CONDUITS, PIPE AND DUCT INSULATION SHALL BE NEATLY INSTALLED AND PAINTABLE. ALL PIPES AND DUCTS SHALL BE RUN EITHER PERPENDICULAR OR PARALLEL TO WALL CONSTRUCTION AND SHALL BE INSTALLED AT THE SAME NOMINAL ELEVATION OR SLOPE. ALL MATERIALS AND INSTALLATION METHODS SHALL COMPLY WITH APPLICABLE CODES AND STANDARDS. WHERE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS INDICATE OTHER REQUIREMENTS THE GREATER QUALITY SHALL PREVAIL.
5	WHERE CEILINGS ARE EXPOSED ALL TIES, CABLES, AND SUPPORTS FOR CLOUDS, ELECTRICAL, MECHNICAL EQUIPMENT AND OTHER APPURTENANCES SHALL BE INSTALLED IN A NEAT, ORGANIZED AND WORKMAN LIKE MANNER. VISIBLE TIES SHALL BE PLUMB/TRUE/SQUARE TO ELEMENTS, TIGHTLY WRAPPED, WITH EXCESS WIRE NEATLY CUT.
6	CONTRACTOR SHALL COORDINATE THE COLOR AND FINISH OF ALL CEILING MOUNTED EQUIPMENT SUCH AS DIFFUSERS, RETURNS, SPEAKERS, ETC. WITH THE ARCHITECT TO ENSURE THERE ARE NO STARK CONTRASTING COLORS.
7	WHERE ACT GRID LAYOUT AT EDGE CONDITIONS FOR 2X2 TILES REQUIRE TILES TO BE CUT TO LESS THAN 3", UTILIZE A 2X4 TILE IN LIEU OF THE 2X2 TILE. OMIT CILING GRID CROSS MEMBERS AS REQUIRED. NO TILE SHALL EXCEED 27" OR BE LESS THAN 3" AT PERIMETER CONDITIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE GRID MAINS AS REQUIRED TO ACHIEVE THIS DESIGN INTENT.
8	CONTRACTOR TO SUBMIT DETAILED COORDINATION DRAWINGS BEFORE PROCEEDING WITH NEW WORK.

SCHEDULE - EQUIPMENT

MARK	DESCRIPTION	BOD MANUFACTURER	BOD MODEL	OWNER FURNISH AND INSTALL	OWNER FURNISH CONTRACTOR INSTALL	CONTRACTOR FURNISH AND INSTALL	COMMENTS
EQ1	REFRIGERATOR	BLUESTAR	FBFD361			●	
EQ2	36" Classic Freestanding Dual Fuel Range (Black)	Fisher & Paykel Appliances	OR36SCG6B1				
EQ3	30" DOUBLE WALL OVEN	BLUESTAR	BSDEWO30DDV3			●	
EQ4	DISHWASHER	KITCHENAID	KDPM704K			●	
EQ5	STACKED WASHER DRYER COMBO	LG	WKEX200H_A / WKGX201H_A			●	
EQ6	WALL HOOD - 36"W x 30"H	GREENHECK	GRRS-W-36-T-G-O-X			●	
EQ7	MONITOR	SAMSUNG	DU6900		●		
EQ8	PERSONNEL LOCKER	BRADLEY CORPORATION	LENOX LOCKER			●	
EQ9	MICROWAVE	WHIRLPOOL	WMC50522AS			●	
EQ10	COFFEE MAKER	N/A	N/A	●			
EQ11	ICE MAKER - UNDERCOUNTER	MANITOWOC	UCP0050A			●	
EQ12	MANUAL ROLLER SHADE - BLACK OUT - WALL MOUNT	MECHOSHADE	MECHO/5 SYSTEM -CLASSIC BLACKOUT 0700 SERIES			●	
EQ13	MANUAL ROLLER SHADE - LIGHT FILTERING - WALL MOUNT	MECHOSHADE	MECHO/5 SYSTEM - THERMOVEIL 1500 SERIES/1519 SILVER BIRCH			●	
EQ14	TEAK FREESTANDING BENCH	TEAK WORKS 4 U	25"X14" HEAVY DUTY TEAK RIGID BENCH	●			
EQ16	1/4" THICK FRAMELESS MIRROR	AMERICAN SPECIALTIES	8287			●	
EQ17	TRASH CANS	- -	NOT IN CONTRACT	●			
EQ18	EXTRACTOR	UNIMAC	UW065 TOUCH			●	
EQ19	PPE GEAR LOCKER	GEAR GRID	20 x 20 x 74-1/2" w/ DOOR			●	



1 FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

REFLECTED CEILING PLAN

SHEET NUMBER:
A800

4/17/2026 1:39:06 PM

DESIGN CRITERIA: (AS APPLICABLE TO NEW CONSTRUCTION)

1. DEAD, LIVE, SNOW, WIND, AND SEISMIC DESIGN LOADS ARE IN ACCORDANCE WITH THE FREDERICK COUNTY BUILDING CODE & MARYLAND STATE BUILDING CODE (COMAR) WHICH INCORPORATE THE INTERNATIONAL BUILDING CODE - IBC 2021 AND THE INTERNATIONAL EXISTING BUILDING CODE 2021, CHAPTER 11.
2. DESIGN DEAD LOADS HAVE BEEN ACCOUNTED FOR BASED UPON THE ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION INCORPORATED INTO THE BUILDING, INCLUDING BUT NOT LIMITED TO FLOORS, ROOFS, WALLS, CEILINGS, FINISHES, CLADDING, AND OTHER SIMILARLY INCORPORATED ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS. SEE THE APPROPRIATE DISCIPLINES PLANS AND SECTIONS FOR ADDITIONAL INFORMATION. DESIGN LIVE LOADS ARE AS FOLLOWS:

AREA	LIVE LOAD
SLAB ON GRADE	100 PSF
STORAGE MEZZANINE	120 PSF
ROOFS	30 PSF

* INDICATES LIVE LOAD REDUCTION HAS BEEN TAKEN INTO ACCOUNT.

3. SNOW LOADING IS NOT APPLICABLE FOR THE STRUCTURAL SCOPE OF THE PROJECT
4. WIND LOADING IS BASED ON THE FOLLOWING:

ULTIMATE DESIGN WIND SPEED	124 MPH
NOMINAL DESIGN WIND SPEED	96 MPH
RISK CATEGORY	IV
SURFACE ROUGHNESS CATEGORY	B
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	+/-0.18
TOPOGRAPHIC FACTOR	1.00
DIRECTIONALITY FACTOR	0.85

COMPONENTS & CLADDING ULTIMATE DESIGN PRESSURES, (10 SQ FT TRIBUTARY AREA):
WALL ZONE 4: +41.4/-45 PSF
WALL ZONE 5: +41.4/-55 PSF

IT IS THE RESPONSIBILITY OF THE COMPONENT & CLADDING ENGINEER TO CALCULATE WIND LOADS FOR COMPONENTS AND CLADDING BASED ON EACH COMPONENT'S TRIBUTARY AREA AND LOCATION ON THE BUILDING.

5. SEISMIC LOADING IS BASED ON THE FOLLOWING:

MAPPED SPECTRAL RESPONSE ACCELERATION, Ss	0.132 G
MAPPED SPECTRAL RESPONSE ACCELERATION, S1	0.043 G
LONG-PERIOD TRANSITION PERIOD, TL	8
RISK CATEGORY	IV
IMPORTANCE FACTOR	1.50
SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATION, SDs	0.141 G
DESIGN SPECTRAL RESPONSE ACCELERATION, SD1	0.069 G

6. CONSTRUCTION LOADS IMPOSED BY EQUIPMENT OR OTHER CONSTRUCTION ACTIVITY THAT EXCEED THE DESIGN LIVE LOAD SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
7. ALL MASONRY VENEER SHALL BE CONNECTED TO THE STRUCTURE WITH TIES AT A MAXIMUM SPACING OF 24"o/c HORIZONTALLY, AND 16"o/c VERTICALLY UNLESS OTHERWISE INDICATED. ALL VENEER ANCHORS SHALL BE SELECTED BASED ON ABOVE STATED LATERAL DESIGN CRITERIA AND ARCHITECTURAL REQUIREMENTS.

FIELD QUALITY CONTROL:

1. THE OWNER SHALL HIRE AN INDEPENDENT TESTING AND INSPECTION AGENCY TO PROVIDE ALL REQUIRED TESTING AND INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL TESTING AND INSPECTIONS WITH THE INDEPENDENT TESTING AND INSPECTION AGENCY. THE FOLLOWING STRUCTURAL ITEMS REQUIRE THIRD-PARTY TESTING AND/OR INSPECTIONS:

A. STEEL FABRICATOR	IBC SECTION 1704.2.5
B. STEEL CONSTRUCTION	IBC SECTION 1705.2
C. CONCRETE CONSTRUCTION	IBC SECTION 1705.3
D. MASONRY CONSTRUCTION	IBC SECTION 1705.4
E. SPRAYED FIRE-RESISTANT MATERIALS	IBC SECTION 1705.14

2. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED THE ARCHITECT/ENGINEER SHALL BE CONTACTED PRIOR TO COMPLETION OF THAT PORTION OF WORK.
3. THE TESTING AND INSPECTION AGENCY SHALL SUBMIT REPORTS TO THE CONTRACTOR, OWNER, AND ARCHITECT/ENGINEER. REPORTS SHALL DOCUMENT THE REQUIRED TESTS, INSPECTIONS, DISCREPANCIES, AND CORRECTIONS OF ANY DISCREPANCIES. REPORTS SHALL BE PROVIDED AT INTERVALS CONVEYING THE PROGRESS OF CONSTRUCTION.

EXISTING CONSTRUCTION:

1. ALL MEMBER SIZES, DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS ARE OBTAINED FROM AVAILABLE SOURCES, AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE MEMBER SIZES, DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER.
2. FOR ADDITIONAL INFORMATION ON THE EXISTING CONSTRUCTION, THE CONTRACTOR SHALL REFER TO DRAWINGS OF THE EXISTING STRUCTURES AND PROVIDE ADDITIONAL EXISTING BUILDING SURVEYS AS NECESSARY.
3. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING AS REQUIRED TO SUPPORT THE EXISTING STRUCTURES. THE CONTRACTOR SHALL EXAMINE THE EXISTING STRUCTURES TO DETERMINE THE EXTENT OF TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING NECESSARY. THE CAPACITY AND METHOD USED FOR THE TEMPORARY SUPPORTS AND PERMANENT UNDERPINNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DEMOLITION NOTES:

1. REMOVE EXISTING CONSTRUCTION AS SHOWN ON PLANS. SEE PLANS, SECTIONS, AND DETAILS FOR EXTENT OF STRUCTURE TO BE REMOVED.
2. EXISTING STRUCTURAL FRAMING SHALL REMAIN UNLESS SPECIFICALLY NOTED ON PLAN TO BE REMOVED.
3. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, NOTIFY ARCHITECT/STRUCTURAL ENGINEER BEFORE PROCEEDING WITH DEMOLITION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE EXISTING BUILDING DURING THE COURSE OF CONSTRUCTION AND IMMEDIATELY ADVISE THE ARCHITECT/ENGINEER OF ANY AREAS WHERE THE STRUCTURE EXHIBITS DISTRESS OR FAILURE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE LOCATION OF ANY EXISTING SYSTEMS IN THE IMMEDIATE VICINITY OF CONSTRUCTION SO AS TO PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH SYSTEMS OCCUR THE CONTRACTOR SHALL BE REQUIRED TO REPAIR SUCH DAMAGE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.

SUBMITTALS:

1. BEFORE SUBMISSION OF SHOP DRAWINGS, THE CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED ALL QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR DATA AND SHALL HAVE COORDINATED EACH SHOP DRAWING WITH OTHER SHOP DRAWINGS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. PRIOR TO SUBMISSIONS, THE CONTRACTOR SHALL STAMP OR PROVIDE A SIMILAR WRITTEN INDICATION THAT THE CONTRACTOR HAS REVIEWED THE SUBMISSION AND IS SATISFIED THE CONTENTS ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
3. REPRINTS OF THE CONTRACT DOCUMENTS WILL NOT BE ACCEPTED.
4. NO DIMENSIONAL INFORMATION MAY BE OBTAINED BY DIRECT SCALING OF THE DRAWINGS.
5. ELECTRONIC OR ADEQUATE NUMBER OF PAPER SETS SHALL BE SUBMITTED SO THAT THE ARCHITECT/ENGINEER CAN MAINTAIN ONE RECORD SET AT ALL TIMES.
6. ALL SUBMITTALS USED FOR CONSTRUCTION SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER AND SHALL BE MARKED "APPROVED" OR "APPROVED AS NOTED".

REINFORCEMENT:

1. ALL DEVELOPMENT AND SPLICES OF REINFORCEMENT SHALL CONFORM TO THE PROVISIONS OF ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, (ACI 318-LATEST EDITION). ALL REINFORCEMENT SPLICES SHALL BE TENSION LAP SPLICES, (TSL), UNLESS NOTED OTHERWISE.
2. REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. WELDABLE DEFORMED BARS SHALL CONFORM TO ASTM A706. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
3. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A1064 AND BE SPLICED SO THAT THE OVERLAP OF THE OUTERMOST CROSS WIRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS TWO INCHES, UNO.
4. REINFORCING BAR SUPPORTS AND SPACERS SHALL CONFORM TO (ACI 315-LATEST EDITION) DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
5. MINIMUM REBAR COVER FOR CONCRETE SHALL BE AS SHOWN IN THE FOLLOWING TABLE, UNO:

EXPOSURE CONDITION	CONCRETE COVER	TOLERANCE (+/-)
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	3/8"
B. EXPOSED TO EARTH OR WEATHER		
#5 AND SMALLER BARS AND WWF	1-1/2"	3/8"
#6 AND LARGER BARS	2"	3/8"
C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND		
SLABS, WALLS, & JOISTS	3/4"	1/4"
BEAMS & COLUMNS (PRIMARY REBAR, TIES, STIRRUPS, & SPIRALS)	1-1/2"	3/8"

6. ALL OTHER REINFORCEMENT TOLERANCES SHALL CONFORM TO THE PROVISIONS OF ACI STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS, (ACI 117-LATEST EDITION).
7. SHEAR STUD RAIL ASSEMBLIES SHALL CONSIST OF HEADED STUDS WELDED TO A STEEL BASE RAIL IN ACCORDANCE WITH ACI 421.1R AND ASTM A1044. SHEAR STUD RAIL ASSEMBLIES SHALL BE OF SIZE, SPACING, AND ARRANGEMENT SHOWN ON THE DRAWINGS. SHEAR STUDS SHALL BE STUD WELDED TO THE RAILS IN COMPLIANCE WITH THE AMERICAN WELDING SOCIETY AWS D1.1 STRUCTURAL WELDING CODE.
8. SHOP DRAWINGS SHOWING ALL REINFORCING STEEL AND NECESSARY SECTIONS AND DETAILS FOR THE PROPER POSITIONING SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND COMMENT BEFORE FABRICATION OR PLACEMENT OF THE STEEL.

FOUNDATIONS:

1. ALL SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR CONTROLLED STRUCTURAL FILL, HAVING A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF. ALL SPREAD FOOTINGS SHALL PROJECT AT LEAST 1'-0" INTO SOIL HAVING SUCH MINIMUM BEARING VALUE.
2. RETAIN THE SERVICES OF A REGISTERED GEOTECHNICAL ENGINEER, APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE OWNER, TO VERIFY SOIL BEARING CAPACITY AT EACH FOOTING PRIOR TO INSTALLATION. NOTIFY ARCHITECT/ENGINEER OF ANY VARIATION FROM ANTICIPATED BEARING CAPACITY FOR APPROPRIATE REDESIGN OR LOWERING OF FOOTINGS.
3. ALL SUBGRADE PREPARATION, FILL, AND BACKFILL OPERATIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER.
4. ALL ORGANIC MATERIALS, UNSUITABLE FILL, AND CONSTRUCTION DEBRIS SHALL BE REMOVED IN REGIONS OF ALL FOUNDATIONS.
5. THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 2'-6" MINIMUM BELOW FINISHED GRADE.
6. EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
7. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS, AND ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER.
8. NO HORIZONTAL JOINTS SHALL BE PLACED IN WALLS EXCEPT AS SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
9. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
10. BACKFILLING AGAINST WALLS SHALL NOT BE DONE UNTIL CONCRETE AND/OR MASONRY GROUT HAS BEEN CURED TO ATTAIN SUFFICIENT STRENGTH (7 DAYS MINIMUM) AND WALLS ARE PROPERLY SHORED AND/OR BRACED. BACKFILLING AGAINST BASEMENT WALLS SHALL NOT BE DONE UNTIL THE FLOOR SLABS AT TOP AND BOTTOM OF WALLS HAVE BEEN PLACED AND HAVE CURED. BACKFILL FOUNDATION WALLS WITH EARTH ON BOTH SIDES OF THE WALL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 1'-6" FROM OTHER SIDE.
11. RETAINING WALLS AND FOUNDATIONS SHALL HAVE CONSTANTLY FUNCTIONING DRAINAGE SYSTEMS INSTALLED TO PREVENT THE BUILDUP OF HYDROSTATIC PRESSURES. DRAINAGE SYSTEMS SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEERING REPORT.
12. ALL ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.

CONCRETE MASONRY:

1. CONCRETE MASONRY SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURE, (TMS 402/602 - LATEST EDITION).
2. CONCRETE MASONRY SHALL HAVE A MINIMUM SPECIFIED NET AREA COMPRESSIVE STRENGTH OF MASONRY, f'm = 2,000 PSI. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE fc'=2,800 PSI.
3. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITIONS OF THE FOLLOWING STANDARDS:

HOLLOW LOAD-BEARING UNITS	ASTM C90
SOLID LOAD-BEARING UNITS	ASTM C145
HOLLOW NON-LOAD-BEARING UNITS	ASTM C129
CONCRETE BUILDING BRICK	ASTM C55

4. ALL CONCRETE MASONRY SHALL BE NORMAL WEIGHT.
5. MORTAR FOR REINFORCED AND UNREINFORCED MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C270, TYPE S, UNO.
6. GROUT FOR REINFORCED OR UNREINFORCED MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
7. MASONRY REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, UNO. ALL CMU CELLS CONTAINING REINFORCEMENT SHALL BE GROUTED SOLID. SEE TYPICAL MASONRY REBAR DEVELOPMENT AND LAP SCHEDULE FOR ADDITIONAL INFORMATION.
8. ALL REINFORCEMENT SHOWN IN WALLS SHALL BE CENTERED IN MASONRY UNITS UNLESS NOTED OTHERWISE.
9. WHERE DRAWINGS INDICATE CMU CELLS TO BE FILLED SOLID, CELLS OF CMU SHALL BE FILLED WITH GROUT IN 5'-4" MAXIMUM LIFTS FOLLOWING LOW-LIFT GROUTING PROCEDURES OR 12'-8" MAXIMUM LIFTS FOLLOWING HIGH-LIFT GROUTING PROCEDURES, UNO.
10. ALL CONCRETE MASONRY SHALL HAVE GALVANIZED, TRUSS OR LADDER TYPE, HORIZONTAL JOINT REINFORCEMENT SPACED VERTICALLY AT 16"o/c MAXIMUM WITH PREFABRICATED CORNER AND "T" PIECES UNO. LAP ALL SPLICES 6" MINIMUM. PROVIDE AN ADDITIONAL ROW ABOVE AND BELOW ALL OPENINGS AND EXTEND TWO FEET BEYOND JAMBS. STOP HORIZONTAL REINFORCING EACH SIDE OF CONTROL JOINTS.
11. WHERE MASONRY WALLS OF HOLLOW UNITS OR MASONRY BONDED WALLS CHANGE IN THICKNESS, THE WALL SHALL BE FILLED SOLID WITH GROUT OR OTHERWISE CONSTRUCTED SOLID FOR AT LEAST ONE COURSE (8" MINIMUM) IMMEDIATELY BELOW SUCH LEVEL WHERE THE THICKNESS CHANGES.
12. EXCEPT AS OTHERWISE SHOWN, CELLS IN MASONRY UNDER BEARING AREAS FOR BEAMS, LINTELS, AND SLABS SHALL BE FILLED SOLID WITH GROUT FOR AT LEAST THREE COURSES (24" MINIMUM) IMMEDIATELY BELOW SUCH BEARING.
13. ALL MASONRY WALLS SHALL HAVE TEMPORARY BRACING INSTALLED UNTIL ALL FLOOR AND/OR ROOF SYSTEMS HAVE BEEN COMPLETELY INSTALLED AND ATTACHED TO MASONRY WALLS. CONTRACTOR IS SOLELY RESPONSIBLE FOR TEMPORARY BRACING.
14. AT NON BEARING WALLS A 1" GAP SHALL BE PROVIDED BETWEEN THE TOP OF THE WALL AND THE UNDERSIDE OF THE STRUCTURAL FLOOR OR ROOF FRAMING. SEE TYPICAL TOP OF NON BEARING MASONRY WALL DETAIL FOR ADDITIONAL INFORMATION.
15. PROVIDE VERTICAL CONTROL JOINTS WHERE INDICATED ON ARCHITECTURAL DRAWINGS, BUT NOT TO EXCEED 1.5 TIMES THE WALL HEIGHT OR 25 FEET, WITHIN ONE HALF THE TYPICAL CONTROL JOINT SPACING FROM BUILDING CORNERS, AT INTERIOR WALL INTERSECTIONS, AT CHANGES IN WALL HEIGHT, AT PILASTERS AND CHANGES IN WALL THICKNESS, AND A MINIMUM OF 2 FEET FROM WALL OPENINGS, UNO.
16. PROVIDE MASONRY ANCHORS ALONG SPANDREL MEMBERS AND AT ALL STEEL COLUMNS, BEAMS, AND LINTELS EMBEDDED IN MASONRY WALLS. ANCHORS TO BE INSTALLED AT 16"o/c EACH FACE UNO ANCHORS SHALL CONSIST OF CHANNEL SLOTS MADE OF 11 GAUGE, GALVANIZED STEEL WELDED TO STEEL MEMBER (BY STEEL FABRICATOR) AND CORRUGATED ANCHORS SHALL BE MADE OF 16 GAUGE x 1 1/4" GALVANIZED CORRUGATED STEEL (BY MASONRY CONTRACTOR).

FOUNDATION CONCRETE:

1. ALL CONCRETE SHALL CONFORM TO THE PROVISIONS OF ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, (ACI 318-LATEST EDITION) AND ACI SPECIFICATIONS FOR STRUCTURAL CONCRETE IN BUILDINGS, (ACI 301-LATEST EDITION).
2. ALL FOUNDATION CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

STRUCTURAL ELEMENT	f'c@28 DAYS	DRY WEIGHT	MAX W/C	AGGREGATE SIZE	AIR CONTENT
A. FOUNDATIONS & PADS	3,500 PSI	150 PCF	0.50	3/8" TO 1"	NA

3. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN REVIEWED BY THE ARCHITECT/ENGINEER.
4. USE A WATER REDUCING ADMIXTURE IN ALL CONCRETE.
5. SLUMP AND MINIMUM CEMENTITIOUS MATERIALS CONTENT SHALL BE AS REQUIRED BY ACI 301-LATEST EDITION.
6. NO CALCIUM CHLORIDE IN ANY FORM WILL BE PERMITTED IN CONCRETE.
7. ALL STRUCTURAL MEMBERS SHALL BE POURED FOR THEIR FULL DEPTHS IN ONE OPERATION.
8. EXCAVATIONS SHALL BE KEPT FREE OF WATER. NO CONCRETE SHALL BE PLACED IN WATER.
9. ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS SHOWN OR AS REQUIRED BY VARIOUS TRADES.
10. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATION SECTIONS FOR CONCRETE FINISHES.
11. SECURE BRICK/MASONRY BLOCK TO CONCRETE BACKER WALL/COLUMNS WITH VERTICAL HOT DIPPED GALVANIZED DOVETAIL SLOTS SPACED A MAXIMUM OF 24"o/c HORIZONTALLY, AND ANCHORS AT EACH SLOT SPACED 16"o/c VERTICALLY.
12. RETAIN THE SERVICES OF AN INDEPENDENT TESTING AGENCY APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE OWNER TO PERFORM TESTS OF CONCRETE FOR VERIFICATION OF MIX DESIGNS PER THE REQUIREMENTS OF ACI LATEST EDITION. PERFORM SLUMP, AIR CONTENT, AND TEMPERATURE TESTING AT THE TIME OF EACH SAMPLING.
13. SAMPLES FOR PREPARING STRENGTH TEST SPECIMENS OF EACH CONCRETE MIXTURE PLACED EACH DAY SHALL BE TAKEN IN ACCORDANCE WITH ACI 318 LATEST EDITION:
    A. AT LEAST ONE SAMPLE PER DAY
    B. AT LEAST ONE SAMPLE FOR EACH 150 YD^3
    C. AT LEAST ONE SAMPLE FOR EACH 5000 FT^2 OF SURFACE AREA FOR SLABS OR WALLS.
14. A MINIMUM OF (1) SET OF (3) 4x8 CYLINDER TESTS AT 28 DAYS IS REQUIRED FOR ACCEPTANCE OF EACH SAMPLE AS DESCRIBED IN NOTE 13. NO MORE THAN (1) CYLINDER PER TEST MAY BE LESS THEN 500 PSI UNDER STRENGTH.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITIONS OF AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, AND THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNO:

W SHAPES	ASTM A992
PLATES & BARS	ASTM A36

3. STRUCTURAL FASTENERS SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNO:

HIGH STRENGTH BOLTS	ASTM F3125, GRADE A325/F1852 OR A490/F2280
COMMON BOLTS	ASTM A307, GRADE A
THREADED RODS	ASTM A36
HEADED STUDS	ASTM A108
ANCHOR RODS	ASTM F1554, GRADE 36, UNO

4. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM, STANDARD HOLES, UNLESS NOTED OTHERWISE.
5. WELDING SHALL BE IN ACCORDANCE WITH AWS CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1) AND SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL WELDS SHALL BE MADE WITH AWS A5.1 E-70XX ELECTRODES.
6. STEEL STUD SHEAR CONNECTORS SHALL CONFORM TO ASTM A108, GRADES 1010 THROUGH 1020, AND SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE - STEEL, AWS D1.1. STUDS SHALL BE WELDED BY AUTOMATIC EQUIPMENT TO STRUCTURAL STEEL.
7. NO PENETRATIONS ARE PERMITTED THROUGH STRUCTURAL STEEL MEMBERS UNLESS INDICATED ON STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
8. APPROVAL OF THE STRUCTURAL ENGINEER SHALL BE MANDATORY FOR THE USE OF CUTTING TORCH IN THE FIELD.
9. DURING ERECTION, STRUCTURAL STEEL FRAME SHALL BE ADEQUATELY BRACED IN ALL LINES, TWO WAYS, TO BRACE AND HOLD THE STEEL FRAME IN ALIGNMENT UNTIL ALL APPLICABLE SHEAR WALLS, BRACED FRAMES, MOMENT FRAMES, FLOOR AND ROOF DIAPHRAGMS, ETC. ARE IN PLACE. SUCH BRACING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. ALL GROUT UNDER STEEL PLATES SHALL BE NON-SHRINK "PRE-MIX" TYPE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
11. FOR ALL MISCELLANEOUS STEEL CONSTRUCTION NOT SHOWN ON STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
12. ALL STRUCTURAL STEEL, CONNECTIONS, AND FASTENERS SHALL RECEIVE THE FOLLOWING FINISHES, UNO, IN ACCORDANCE WITH THE APPLICABLE AISC AND SSPC GUIDELINES:

A. INTERIOR STEEL	SHOP PRIMER
B. FIREPROOFED INTERIOR STEEL	UNCOATED

13. STRUCTURAL STEEL SHALL BE INSPECTED IN THE FIELD BY AN INDEPENDENT TESTING AGENCY APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE OWNER.
14. SHOP DRAWINGS SHOWING ALL PLANS, SECTIONS, AND DETAILS NECESSARY FOR THE PROPER PLACEMENT AND CONNECTION OF ALL STRUCTURAL STEEL, SHEAR STUDS, STEEL JOISTS, AND JOIST GIRDERS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND COMMENT PRIOR TO FABRICATION AND ERECTION.

LINTELS:

1. PROVIDE LINTELS OVER ALL PENETRATIONS IN MASONRY WALLS AT DOORS, WINDOWS, MECHANICAL AND ELECTRICAL SERVICES AND EQUIPMENT, ETC, AND AT LOCATIONS NOT SPECIFICALLY SHOWN ON THE DRAWINGS, IN ACCORDANCE WITH THE LINTEL SCHEDULE.
2. LINTELS IN INTERIOR, NON-LOAD BEARING CONCRETE MASONRY WALLS SHALL BE PRECAST CONCRETE TO MATCH THE TEXTURE, APPEARANCE AND THICKNESS OF THE WALLS OR PARTITIONS IN WHICH THEY ARE PLACED. PROVIDE PRECAST CONCRETE LINTELS PER LINTEL SCHEDULE UNLESS OTHERWISE INDICATED.
3. CONTRACTOR SHALL SHORE ALL LINTELS AS REQUIRED TO PREVENT ROTATION DURING CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE SIZE AND TYPE OF LINTEL WITH ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS.
5. CONTRACTOR SHALL PROVIDE SHORING AND/OR BRACING OF EXISTING WALLS AS REQUIRED TO INSTALL NEW LINTELS. METHOD OF SHORING AND/OR BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL LINTELS TO HAVE SOLID BEARING, 8" MINIMUM, EACH END.
7. ALL STEEL LINTELS LOCATED IN EXTERIOR WALLS SHALL BE GALVANIZED.
8. CONTINUOUS BOTTOM PLATES SHALL BE FILLET WELDED TO BEAM FLANGE WITH 1/4" FILLET WELD, 3 INCHES PER FOOT, ON BOTH SIDES UNLESS NOTED OTHERWISE.
9. PROVIDE 1/2" X 6" LONG HEADED STUDS AT 24"o/c WELDED TO TOP FLANGE OF ALL WIDE FLANGE LINTELS, UNLESS NOTED OTHERWISE. FILL MASONRY BLOCK SOLID WITH GROUT AT ANCHOR LOCATIONS.

METAL FABRICATIONS (DELEGATED DESIGN):

1. CONTRACTOR SHALL DESIGN AND INCORPORATE ALL METAL COMPONENTS INDICATED TO SUPPORT THE FOLLOWING DESIGN LIVE LOADS:

    HANDRAIL & GUARDRAIL SYSTEMS:
    50 PLF OR 200 LB CONCENTRATED LOAD, WHICHEVER IS GREATER, APPLIED AT ANY POINT AND IN ANY DIRECTION ON THE HANDRAIL OR TOP RAIL. A 50 LB CONCENTRATED HORIZONTAL LOAD APPLIED ON A ONE SF AREA AT ANY POINT FOR REMAINING INFILL COMPONENTS.

    LADDERS:
    DESIGN AND INCORPORATE ALL COMPONENTS OF LADDER FRAMING INCLUDING RAILS, CONNECTIONS, RUNGS TO SUPPORT LOADS AS REQUIRED BY OSHA 1926 LATEST EDITION. LADDERS OVER 24 FEET IN CLIMB HEIGHT SHALL BE EQUIPPED WITH A FALL ARREST SAFETY SYSTEM ACCORDING TO THE REQUIREMENTS OF OSHA 1926 LATEST EDITION. FALL ARRESTS SYSTEMS AND THE SUPPORTING LADDER SHALL BE CAPABLE OF SUPPORTING A 3000 LB IMPACT LOAD.

2. SUBMIT COMPLETE SHOP DRAWINGS, ERECTION DRAWINGS, AND DESIGN CALCULATIONS FOR REVIEW PRIOR TO FABRICATION OR ERECTION OF ALL COMPONENTS INDICATED. ALL SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE CONTRACTORS ENGINEER.

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEIENGINEERING.COM

SEAL:

STATE OF MARYLAND · TIMOTHY M. MICHAEL · 30585 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #35854
EXPIRATION DATE: 06-19-2027

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
FOR CONSTRUCTION

ORIGINAL ISSUE DATE:
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

GENERAL NOTES

SHEET
S001

4/8/2026 8:26:42 AM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

CONCRETE SUPPORTED BY METAL DECK:

1. ALL CONCRETE SUPPORTED BY METAL DECK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

STRUCTURAL ELEMENT	f'c@28 DAYS	DRY WEIGHT	MAX W/C	AGGREGATE SIZE	AIR CONTENT
A. LIGHTWEIGHT SLABS	3,500 PSI	107-113 PCF	0.50	3/8" TO 3/4"	5.5% +/- 1.5%

2. NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE AND HAVE BEEN REVIEWED BY THE ARCHITECT/ENGINEER.
3. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A1064 AND BE SPLICED SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2 INCHES, UNO.
4. TOP OF CONCRETE SHALL BE POURED LEVEL AND AT ELEVATION INDICATED ON DRAWINGS, UNLESS NOTED OTHERWISE. MINIMUM CONCRETE THICKNESS AS INDICATED ON DRAWINGS SHALL ALWAYS BE ACHIEVED. STRUCTURE WILL DEFLECT SLIGHTLY DUE TO THE WEIGHT OF THE CONCRETE, THUS INCREASING THE SPECIFIED CONCRETE THICKNESS AT DEFLECTED AREAS. THE ADDITIONAL CONCRETE WEIGHT DUE TO THE SLIGHT STRUCTURE DEFLECTION HAS BEEN ACCOUNTED FOR IN THE DESIGN OF THE STRUCTURE. CONTRACTOR SHALL PLAN ACCORDINGLY FOR ANY ADDITIONAL CONCRETE NECESSARY DUE TO THE SLIGHT DEFLECTION OF THE STRUCTURAL MEMBERS.
5. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATION SECTIONS FOR CONCRETE FINISHES.
6. CONCRETE SLABS SHALL BE TROWEL FINISHED TO THE FOLLOWING MINIMUM FLATNESS AND LEVELNESS TOLERANCES IN ACCORDANCE WITH ASTM E1155: (NOTE: F(L) TOLERANCES DO NOT APPLY TO UNSHORED FRAMED CONSTRUCTION)

   SPECIFIED OVERALL VALUES:FLATNESS, F(F) = 30 LEVELNESS, F(L) = 20
   MINIMUM LOCAL VALUES: FLATNESS, F(F) = 20 LEVELNESS, F(L) = 15

7. THE CONTRACTOR SHALL DEPOSIT ALL CONCRETE, DURING PLACING, IN SUCH A MANNER AS NOT TO OVERLOAD THE METAL DECK.
8. NO CONDUIT SHALL BE PLACED IN CONCRETE SLABS SUPPORTED BY METAL DECK.
9. RETAIN THE SERVICES OF AN INDEPENDENT TESTING AGENCY APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE OWNER TO PERFORM TESTS OF CONCRETE FOR VERIFICATION OF MIX DESIGNS PER THE REQUIREMENTS OF ACI LATEST EDITION. PERFORM SLUMP, AIR CONTENT, AND TEMPERATURE TESTING AT THE TIME OF EACH SAMPLING.
10. SAMPLES FOR PREPARING STRENGTH TEST SPECIMENS OF EACH CONCRETE MIXTURE PLACED EACH DAY SHALL BE TAKEN IN ACCORDANCE WITH ACI 318 LATEST EDITION:
    A. AT LEAST ONE SAMPLE PER DAY
    B. AT LEAST ONE SAMPLE FOR EACH 150 YD^3
    C. AT LEAST ONE SAMPLE FOR EACH 5000 FT^2 OF SURFACE AREA FOR SLABS OR WALLS.
11. A MINIMUM OF (1) SET OF (3) 4x8 CYLINDER TESTS AT 28 DAYS IS REQUIRED FOR ACCEPTANCE OF EACH SAMPLE AS DESCRIBED IN NOTE 10. NO MORE THAN (1) CYLINDER PER TEST MAY BE LESS THEN 500 PSI UNDER STRENGTH.

LIGHT GAUGE STEEL FRAMING (STRUCTURAL FRAMING ONLY):

1. LIGHT GAUGE METAL FRAMING (COLD-FORMED STEEL FRAMING) SHALL BE MANUFACTURED BY AND SSMA MEMBER MANUFACTURER IN ACCORDANCE WITH ASTM C955. MATERIAL SIZES AND GAUGES ARE INDICATED ON THE DRAWINGS. ALL LIGHT GAUGE MEMBERS SHALL BE MANUFACTURED FROM SHEET STEEL AND GALVANIZED IN ACCORDANCE WITH ASTM A1003, WITH A MINIMUM G60.
2. LIGHT GAUGE STEEL FRAMING SHALL CONFORM TO THE AISI (AMERICAN IRON AND STEEL INSTITUTE) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL STRUCTURAL FRAMING.
3. SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW, PRIOR TO FABRICATION, COMPLETE SHOP DRAWINGS WHICH SHALL INCLUDE COMPLETE SECTION PROPERTIES OF MEMBERS, CONNECTION DETAILS, BRIDGING SIZE, TYPE, AND LOCATION, ERECTION PLANS, PRODUCT DATA CONFORMING TO THE CALLOUTS WITHIN OR SUBSTITUTIONS FOR APPROVAL
4. ALL MEMBERS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR SLOPE CUT AS REQUIRED FOR ANGULAR FIT AGAINST ABUTTING MEMBERS.
5. ALL CONNECTIONS SHALL BE FASTENED AS INDICATED ON THESE DRAWINGS.

   A. SCREWS (LG TO LG FRAMING) - #10 OR #12 SELF DRILLING SCREWS MANUFACTURED BY HILTI, TEKS, GRABBER, COMPASS, OR EQUAL AND INSTALLED PER THE FASTENER MANUFACTURER'S SPECIFICATIONS. MINIMUM 1/2" LENGTH FOR LIGHT GAUGE TO LIGHT GAUGE CONNECTIONS. SCREWS SHALL COMPLY WITH ASTM C1513. SCREWS SHALL BE SPACED A MINIMUM OF 1/2" BETWEEN ADJACENT SCREWS AND FROM METAL EDGES.
   B. POWDER ACTUATED FASTENERS (PAF) TO STEEL - PROVIDE MINIMUM OF 5/8" LONG "X-U" PAF WITH 0.157"ø OF SHANK MANUFACTURED BY HILTI. "X-U" PAF's SHALL BE SPACED A MINIMUM OF 1 1/2" BETWEEN ADJACENT PAF's IN STRUCTURAL STEEL AND A MINIMUM OF 1/2" FROM STEEL EDGES/ THE "X-U" POINT SHALL BE DRIVEN INTO THE STRUCTURAL STEEL MEMBER PER MANUFACTURER RECOMMENDATIONS
   C. POWDER ACTUATED FASTENERS (PAF) TO CONCRETE - PROVIDE "X-U" PAF ANCHORS WITH 0.157"ø SHANK DIAMETER MANUFACTURED BY HILTI FOR COLD-FORMED METAL CONNECTIONS TO CONCRETE WHERE NOTED IN THE DRAWINGS. "X-U" PAF's SHALL BE SPACED A MINIMUM OF 4" BETWEEN ADJACENT PAF"S IN CONCRETE AND A MINIMUM OF 3" FROM CONCRETE EDGES.

6. PROVIDE A CONTINUOUS STEEL TRACK AT THE TOP AND BOTTOM OF ALL STUD WALLS AND HORIZONTAL BRIDGING AT MID HEIGHT OF ALL WALLS UNLESS NOTED OTHERWISE
7. PROVIDE CONTINUOUS BRIDGING AT MID-HEIGHT OF WALLS, BUT SPACED NO FARTHER THAN 5'-0" ON CENTER, OR AS REQUIRED BY THE DESIGN OF THE DELEGATED DESIGN ENGINEER. CONNECT BRIDGING TO EACH STUD. DETAILS SHALL BE INCLUDED ON SHOP DRAWINGS.
8. ALL STRUCTURAL LIGHT GAUGE FRAMING SHALL BE STRUCTURAL GRADE AT A MINIMUM OF 20 GAUGE WITH MAXIMUM SPACING OF 16"o/c, UNO, AND SHALL BE GALVANIZED TO A MINIMUM OF A G60 FINISH. SEE PLAN AND SECTIONS FOR DEPTH AND SPACING OF LIGHT GAUGE FRAMING. WHERE LATERALLY SUPPORTING BRICK VENEER SHALL BE 18 GAUGE MINIMUM WITH MAXIMUM SPACING OF 16"o/c.
9. AS A MINIMUM, SCREW ALL CONNECTIONS OF STUD TO STUD, STUD TO TRACK AND STUD TO FRAME USING (2) NO. 8 SELF TAPPING METAL SCREWS AT EACH CONNECTION.
10. PROVIDE A MINIMUM OF A DOUBLE-STUD JAMB AT EACH END OF LIGHT GAUGE HEADER, UNLESS NOTED OTHERWISE, OR AS REQUIRED BY THE DESIGN OF THE DELEGATED DESIGNER.
11. CONNECT STUD FLANGES TO TRACK UNLESS A SLIP CONDITION IS REQUIRED. STUDS SHALL HAVE FULL BEARING AGAINST INSIDE WEB OF TRACK. NO VOIDS WILL BE PERMITTED AT TOP OR BOTTOM OF STUD AT TRACK (TYPICAL).
12. DO NOT CUT OR SPLICE LIGHT GAUGE MEMBERS UNLESS INDICATED BY THESE DRAWINGS.
13. FIELD CUTTING OF LIGHT GAUGE MEMBERS SHALL BE DONE BY SAWING OR SHEATING. TORCH CUTTING IS NOT PERMITTED.
14. LIGHT GAUGE FRAMING INSTALLATION SHALL BE INSPECTED IN THE FIELD BY AN INDEPENDENT TESTING AGENCY APPROVED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE OWNER.

POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS MANUFACTURED BY HILTI, DEWALT, SIMPSON STRONG-TIE, OR AN ACCEPTED SUBSTITUTE. SEE DRAWINGS FOR TYPE, SIZE, FINISH, EMBEDMENT, AND LOCATION OF POST-INSTALLED ANCHORS.
2. CONCRETE ADHESIVE ANCHORING SYSTEMS:

   A. HILTI HIT-HY 200 OR HIT-RE 500-SD ADHESIVE ANCHORING SYSTEM WITH HILTI HIT-Z ROD, HILTI HAS THREADED ROD, OR DEFORMED STEEL REBAR
   B. DEWALT AC200+ OR AC100+ GOLD OR SIMPSON STRONG-TIE SET-3G ADHESIVE ANCHORING SYSTEM WITH THREADED ROD OR DEFORMED STEEL REBAR

3. CONCRETE MECHANICAL ANCHORS:

   A. HILTI KWIK BOLT-TZ, DEWALT POWER-STUD+ SD2, OR SIMPSON STRONG-TIE STRONG-BOLT 2 EXPANSION ANCHORS
   B. HILTI KWIK HUS EZ, DEWALT SCREW-BOLT+, OR SIMPSON STRONG-TIE TITEN HD SCREW ANCHORS
   C. HILTI HSL-3 OR DEWALT POWER-BOLT+ HEAVY DUTY EXPANSION ANCHORS
   D. HILTI HDA, DEWALT ATOMIC+UNDERCUT, OR SIMPSON STRONG-TIE TORQ-CUT UNDERCUT ANCHORS

4. SOLID MASONRY ADHESIVE ANCHORING SYSTEMS:

   A. HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM WITH HILTI HAS THREADED ROD OR DEFORMED STEEL REBAR
   B. DEWALT AC100+ GOLD WITH THREADED ROD OR DEFORMED STEEL REBAR

5. SOLID MASONRY MECHANICAL ANCHORS:

   A. HILTI KWIK BOLT-TZ, DEWALT POWER-STUD+ SD1, OR SIMPSON STRONG-TIE STRONG-BOLT 2 EXPANSION ANCHORS
   B. HILTI KWIK HUS EZ, DEWALT SCREW-BOLT+, OR SIMPSON STRONG-TIE TITEN HD SCREW ANCHORS

6. HOLLOW / MULTI-WYTHE MASONRY ADHESIVE ANCHORING SYSTEMS:

   A. HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM WITH HILTI HAS THREADED ROD OR DEFORMED STEEL REBAR
   B. DEWALT AC100+ GOLD ADHESIVE ANCHORING SYSTEM WITH THREADED ROD OR DEFORMED STEEL REBAR IN STAINLESS STEEL SLEEVE.

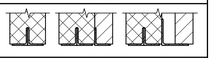
   THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.

7. HOLLOW / MULTI-WYTHE MASONRY MECHANICAL ANCHORS:

   A. HILTI HLC OR DEWALT LOK-BOLT AS SLEEVE ANCHORS
   B. SIMPSON STRONG-TIE TITEN HD SCREW ANCHORS

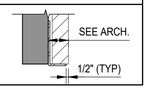
8. ANCHOR CAPACITY IS BASED ON THE TECHNICAL DATA PUBLISHED BY THE MANUFACTURER AND RELEVANT ICC ESR REPORTS. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION SHALL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
9. INSTALL ANCHORS PER THE MANUFACTURER'S INSTRUCTIONS.
10. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. INSTALLERS OF CONCRETE ADHESIVE ANCHORS SHALL BE CERTIFIED THROUGH ACI/CRSI FOR ADHESIVE ANCHORS OR BE TRAINED BY AN ANCHOR MANUFACTURER'S REPRESENTATIVE WHO IS AN ACI/CRSI CERTIFIED PROCTOR FOR CONCRETE ADHESIVE ANCHORS.
11. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
12. EXISTING REINFORCING BARS IN THE CONCRETE OR MASONRY STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS AND NOTIFY THE ARCHITECT/ENGINEER OF THE SITUATION FOR REVIEW PRIOR TO PROCEEDING.
13. NO POST-INSTALLED ANCHORS SHALL BE PERMITTED IN POST-TENSIONED SLABS OR BEAMS WITHOUT FIRST NOTIFYING THE ARCHITECT/ENGINEER FOR REVIEW AND IDENTIFYING THE LOCATION AND DEPTH OF ALL POST-TENSIONING TENDONS WITHIN THE VICINITY OF THE PROPOSED POST-INSTALLED ANCHOR LOCATION.
14. SIMPSON STRONG-TIE ADHESIVE ANCHORING SYSTEMS INTO MASONRY ARE NOT PERMITTED.

LINTEL SCHEDULE

MARK	SIZE	COMMENTS	DETAILS
L-1	L4 x 3 1/2 x 5/16 (LLV) FOR EACH 4" OF WALL THICKNESS. UP TO 6'-0" OPENINGS	-	
L-2	L6 x 3 1/2 x 5/16 (LLV) FOR EACH 4" OF WALL THICKNESS. 6'-1" TO 8'-0" OPENINGS	-	

NOTES:
1. FOR SIZES OF LINTELS SUPPORTING MASONRY VENEER IN CAVITY WALLS, SEE VENEER LINTEL SCHEDULE.

VENEER LINTEL SCHEDULE

OPENING SIZE	LINTEL SIZE	COMMENTS	DETAILS
(0'-0") - (4'-0")	GALV. L5 X 5 X 5/16	COORDINATE CAVITY SIZES WITH ARCHITECTURAL DRAWINGS. SELECT HORIZONTAL LEG SIZE AS REQUIRED TO MAINTAIN DIMENSIONS SHOWN.	

NOTES:
1. FOR HEADER / LINTEL SIZES OF VENEER BACKUP WALLS, SEE SCHEDULES FOR COORESPONDING MATERIAL AT EACH LOCATION.
2. FOR MASONRY OPENINGS WITH WIDE FLANGE LINTELS AND CONTINUOUS BOTTOM PLATES SUPPORTING VENEER, NO ADDITIONAL VENEER LINTEL IS REQUIRED.
3. COORDINATE LOCATIONS AND LENGTHS OF VENEER LINTELS WITH ARCHITECTURAL DRAWINGS WHERE MASONRY IS REQUIRED.

REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE (Fy = 60 KSI)

BAR SIZE	COMPRESSION		TENSION (f'c = 3,500 PSI OR LESS)				
			DEVELOPMENT LENGTH (IN)		LAP SPLICE LENGTH (IN)		HOOK DEVELOPMENT LENGTH (IN)
	DEVELOPMENT LENGTH (IN)	LAP SPLICE LENGTH (IN)	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
#3	9	12	22	17	28	22	6
#4	11	15	29	22	37	29	8
#5	14	19	36	28	47	36	10
#6	17	23	43	33	56	43	12
#7	20	27	63	48	81	63	14
#8	22	30	72	55	93	72	16
#9	25	34	81	62	105	81	18
#10	28	39	91	70	118	91	20
#11	31	43	107	82	138	107	22
#14	38	-	154	118	-	-	38
#18	50	-	272	210	-	-	50
MARK	CDL	CSL	TDL		TSL		HDL

NOTES:
1. TENSION DEVELOPMENT AND LAP SPLICE LENGTHS INDICATED ARE BASED ON THE FOLLOWING:

   CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND BEAM STIRRUPS OR COLUMN TIES THROUGHOUT TDL OR TSL NOT LESS THAN THE CODE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db & CLEAR COVER NOT LESS THAN db. IF THESE CONDITIONS ARE NOT SATISFIED THE LENGTHS INDICATED IN THE SCHEDULE SHALL BE INCREASED 50%.

2. TOP BARS ARE HORIZONTAL BARS PLACED WITH MORE THAN 12" OF CONCRETE BELOW THE DEVELOPMENT LENGTH OR SPLICE.
3. WHERE BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE SPLICE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE LARGEST.
4. TENSION AND COMPRESSION DEVELOPMENT AND LAP SPLICE LENGTHS OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE THAT FOR THE INDIVIDUAL BAR INCREASED BY 20% FOR 3-BAR BUNDLES AND 33% FOR 4-BAR BUNDLES.
5. LENGTHS WITHIN TABLE ARE FOR NORMAL WEIGHT CONCRETE. TENSION DEVELOPMENT, LAP SPLICE, AND HOOK DEVELOPMENT LENGTHS SHALL BE INCREASED 33% FOR LIGHTWEIGHT CONCRETE.
6. FOR EPOXY COATED BARS TENSION DEVELOPMENT AND LAP SPLICE LENGTHS SHALL BE INCREASED 50%. HOOK DEVELOPMENT LENGTHS SHALL BE INCREASED 20%.
7. THE REINFORCING SHOP DRAWINGS SHALL CLEARLY SHOW ALL DEVELOPMENT AND SPLICE LENGTHS.
8. STANDARD 90° OR 180° HOOK BAR PROFILES, SIDE COVER, AND END COVER SHALL BE PROVIDED PER ACI AT THE ENDS OF ALL HOOKED BARS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEIENGINEERING.COM

SEAL:

STATE OF MARYLAND · TIMOTHY M. NUGENT · No. 35854 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #35854
EXPIRATION DATE: 06-19-2027

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
FOR CONSTRUCTION

ORIGINAL ISSUE DATE:
04/17/2026

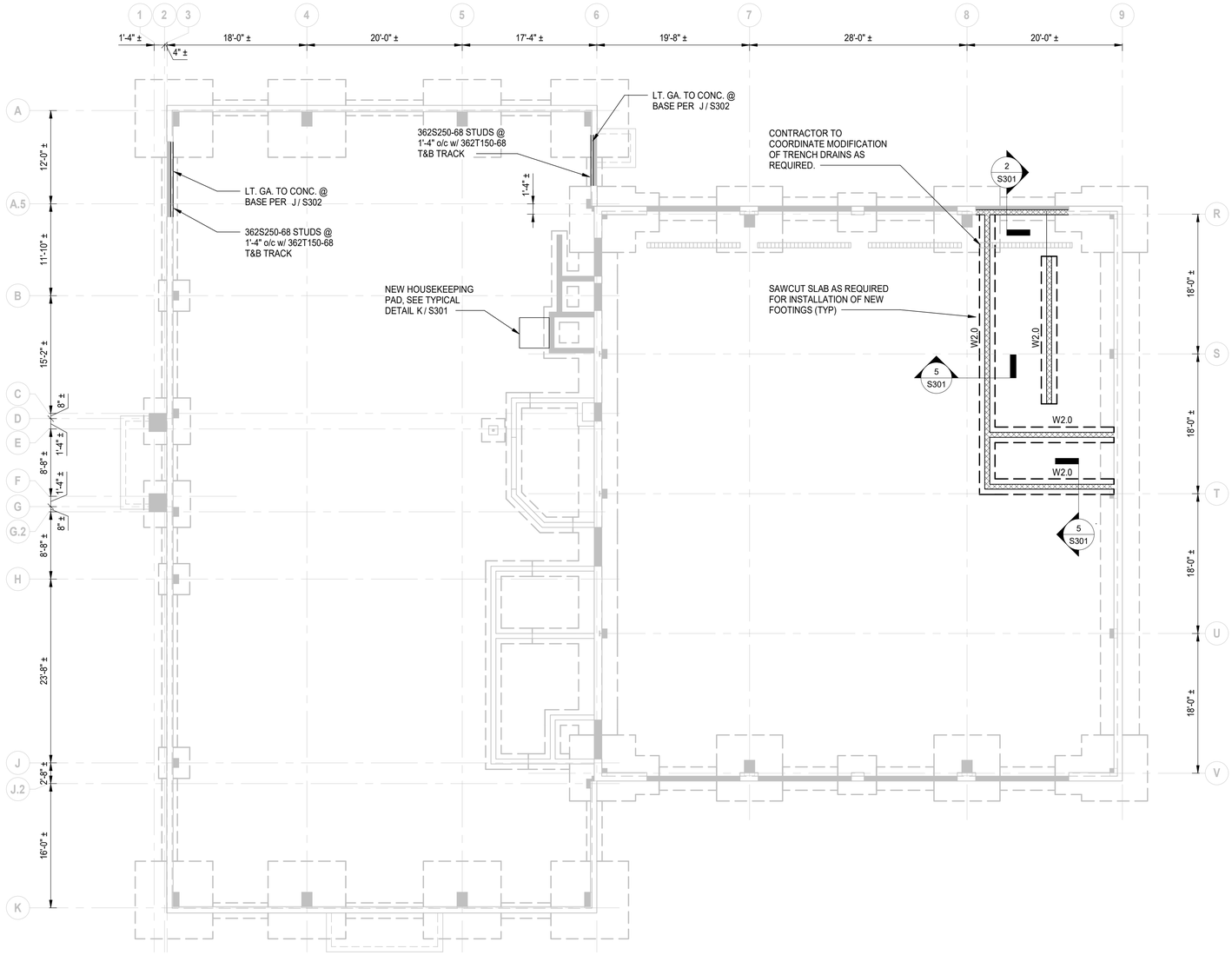
SHEET REVISION SCHEDULE:
No. DATE

GENERAL NOTES & SCHEDULES

SHEET
S002

4/8/2026 8:26:42 AM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



FOUNDATION / FIRST FLOOR PLAN

1/8" = 1'-0"

FOUNDATION NOTES:

1. EXISTING BUILDING FOUNDATIONS INDICATED ON PLAN WERE OBTAINED FROM EXISTING DRAWINGS PREPARED BY ABEL CONSULTING ENGINEERS, PA DATED 03/22/2002 AND DOES NOT REFLECT THE RESULT OF FIELD SURVEY OR AS-BUILT CONDITIONS. CONTRACTOR TO CONFIRM EXISTING CONDITIONS AND FLOOR ELEVATIONS THAT ARE INDICATED ON PLAN PRIOR TO CONSTRUCTION AND CONTACT ENGINEER IF DISCREPANCIES ARE ENCOUNTERED.
2. WHERE INDICATED, EXISTING SLAB ON GRADE CONSISTS OF MINIMUM 6" THICK NORMAL WEIGHT CONCRETE. CONTRACTOR TO VERIFY IN FIELD.
3. TOP OF EXISTING / NEW CONCRETE SLAB ON GRADE ELEVATION = 296.00'± UNO AND IS THE DATUM (0'-0") FOR THIS PROJECT.
4. DIMENSIONS AND ELEVATIONS SHOWN TO EXISTING COLUMN LINES AND ELEMENTS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION.
5. W.X.X INDICATES CONTINUOUS WALL FOOTING, SEE SCHEDULE ON THIS SHEET FOR SIZE & REINFORCING.
6. TYPICAL TOP OF NEW FOOTING ELEVATION SHALL BE AT (-2'-8") UNO.
7. TOP OF FOOTING ELEVATION SHALL MATCH TO POF INTERIOR SLAB ELEVATION. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES.
10. INDICATES 8" THICK CMU FOUNDATION WALL REINFORCED WITH #5@48"o/c VERTICAL, ALL BELOW GRADE CMU WALLS TO BE GROUTED SOLID. PROVIDE (2) #5 BARS FULL HEIGHT EACH SIDE OF DOOR JAMBS, TYPICAL ALL OPENINGS UNO. REFER TO DETAIL E / S302 FOR ADDITIONAL INFORMATION & REQUIREMENTS.

    INDICATES EXISTING CONCRETE PIER / MASONRY FOUNDATION WALL AND FOOTING
11. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLAB EDGES, OPENINGS, PENETRATIONS, SLOPES, RAISED OR DEPRESSED AREAS, CURBS, ETC, WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS UNO.
12. THE CONTRACTOR SHALL COORDINATE ALL UNDERSLAB UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. LOWER OR STEP TOP OF FOOTING ELEVATIONS AS REQUIRED TO MAINTAIN 2H:1V SLOPE FROM BOTTOM OF FOOTINGS TO BOTTOM OF UTILITY EXCAVATIONS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
13. FOR ADDITIONAL INFORMATION AND REQUIREMENTS REFER TO THE GENERAL NOTES, TYPICAL DETAILS, AND SCHEDULES.
14. EXISTING CONSTRUCTION IS SHOWN HALF-TONED. REFER TO EXISTING CONSTRUCTION GENERAL NOTES FOR ADDITIONAL INFORMATION.

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEIENGINEERING.COM

SEAL:

STATE OF MARYLAND
TAMMY M. MICHAEL
No. 35854
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #35854
EXPIRATION DATE: 06-19-2027

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
FOR CONSTRUCTION

ORIGINAL ISSUE DATE:
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

FOUNDATION / FIRST FLOOR PLAN

SHEET
S101

4/8/2026 8:26:43 AM



MEZZANINE FRAMING PLAN

1/8" = 1'-0"

MEZZANINE FRAMING NOTES:

1. EXISTING BUILDING FRAMING INDICATED ON PLAN WERE OBTAINED FROM EXISTING DRAWINGS PREPARED BY ABEL CONSULTING ENGINEERS, PA DATED 03/22/2002 AND DOES NOT REFLECT THE RESULT OF FIELD SURVEY OR AS-BUILT CONDITIONS. CONTRACTOR TO CONFIRM EXISTING CONDITIONS AND FLOOR ELEVATIONS THAT ARE INDICATED ON PLAN PRIOR TO CONSTRUCTION AND CONTACT ENGINEER IF DISCREPANCIES ARE ENCOUNTERED.
2. SLAB ON METAL DECK SHALL CONSIST OF 3 1/4" LIGHTWEIGHT CONCRETE SLAB OVER 3" X 18 GAUGE PAINTED COMPOSITE METAL DECK (TOTAL FLOOR SLAB THICKNESS = 6 1/4"). REINFORCE SLAB WITH 6X6-W1.4 X W1.4 WWF ATTACH DECK TO BEAMS / SUPPORTS WITH 5/8" PUDDLE WELDS AT 36/4 PATTERN AND WELDED SIDELAPS AT 2'-0"o/c MAXIMUM.
3. TOP OF SLAB ELEVATION SHALL BE (+XX'-X") IN REFERENCE TO THE PROJECT DATUM UNO. ELEVATIONS VARYING ARE INDICATED THUS (±X'-X").
4. ELEVATION TOP OF STEEL BEAMS SHALL BE (-0'-6 1/4") BELOW TOP OF SLAB UNO IN PLAN THUS (-X'-X")
5. INDICATES 8" THICK CMU WALL REINFORCED WITH #5@4'-0"o/c VERTICAL IN FULLY GROUTED CELLS. PROVIDE (2)#5 BARS FULL HEIGHT EACH SIDE OF DOOR JAMBS, TYPICAL ALL OPENINGS UNO. REFER TO DETAIL E / S302 FOR ADDITIONAL INFORMATION & REQUIREMENTS.

   INDICATES 362S250-68 LIGHT GAUGE BEARING WALL WITH 362150-68 TOP & BOTTOM TRACKS UNO.

   INDICATES EXISTING WALL CONSTRUCTION
7. LX INDICATES LINTEL, SEE SCHEDULE ON GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION.
8. BP-X INDICATES STEEL BEARING PLATE, SEE DETAIL ON SHEET FOR ADDITIONAL INFORMATION
9. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SLAB EDGES, OPENINGS, PENETRATIONS, SLOPES, RAISED OR DEPRESSED AREAS, CURBS, ETC, WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS UNO.
10. FOR ADDITIONAL INFORMATION AND REQUIREMENTS REFER TO THE GENERAL NOTES, TYPICAL DETAILS, AND SCHEDULES.
11. EXISTING CONSTRUCTION IS SHOWN HALF-TONED. REFER TO EXISTING CONSTRUCTION GENERAL NOTES FOR ADDITIONAL INFORMATION.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEIENGINEERING.COM

SEAL:

STATE OF MARYLAND · TAMARA M. WOODWARD · No. 35854 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #35854
EXPIRATION DATE: 06-19-2027

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
FOR CONSTRUCTION

ORIGINAL ISSUE DATE:
04/17/2026

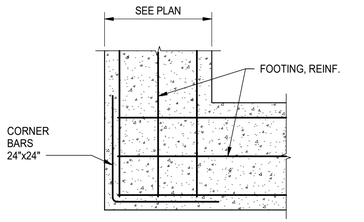
SHEET REVISION SCHEDULE:
No. DATE

MEZZANINE FRAMING PLAN

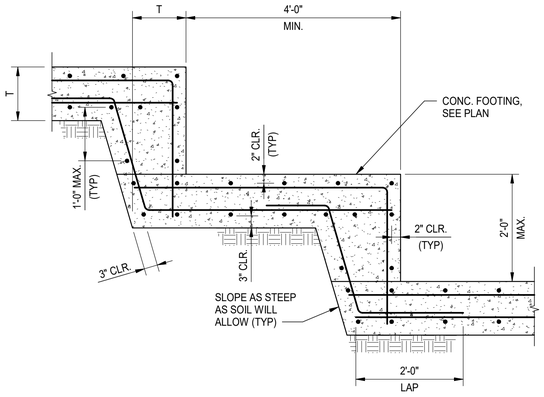
SHEET
S102

4/8/2026 8:26:43 AM

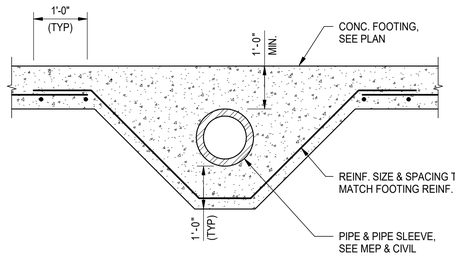
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



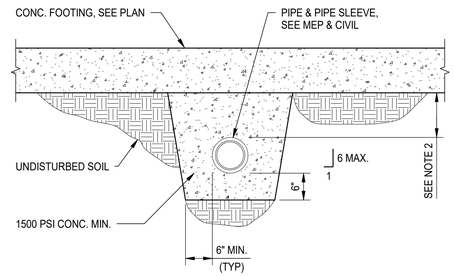
WALL FOOTING CORNER PLAN — A / S301 — 3/4" = 1'-0"



STEPPED WALL FOOTING — B / S301 — 3/4" = 1'-0"



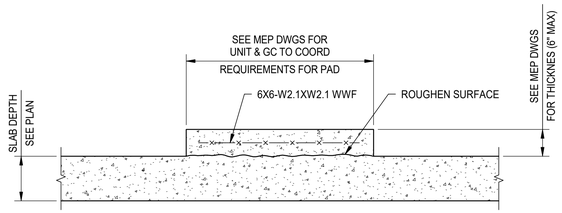
PIPE THROUGH FOOTING — C / S301 — 3/4" = 1'-0"



PIPE CROSSING BELOW WALL FOOTING — D / S301 — 3/4" = 1'-0"

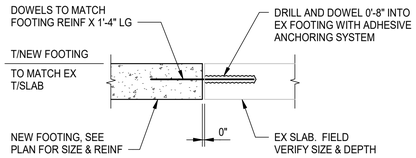
NOTES:
1. PIPE SLEEVE AND CONCRETE BACKFILL SHALL BE PLACED PRIOR TO WALL FOOTING. EXTEND CONCRETE BACKFILL FOR 1'-0" PAST EACH EDGE OF FOOTING.
2. AT THICKENED SLABS, DETAIL APPLIES WHERE CLEARANCE FROM BOTTOM OF FOUNDATION TO TOP OF PIPE IS LESS THAN 6". WHERE CLEARANCE IS GREATER THAN OR EQUAL TO 6", PROVIDE 6" STONE PLACED ABOVE AND AROUND THE PIPE.
3. THIS DETAIL APPLIES AT ALL PIPES CROSSING BELOW WALL FOOTING U.N.O.

NOTE:
1. PROVIDE 24"x24" CORNER BARS AS SHOWN ABOVE OR BEND EACH INTERSECTING OUTSIDE BAR FOR A DISTANCE OF 20" AROUND CORNERS FOR EACH LAYER OF FOOTING REINFORCING. BAR TO BE SAME SIZE AS FOOTING REINFORCING. COLD BENDING IN THE FIELD IS ALLOWABLE.

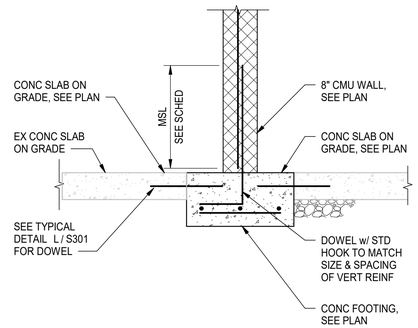


EQUIPMENT HOUSEKEEPING PAD — K / S301 — 3/4" = 1'-0"

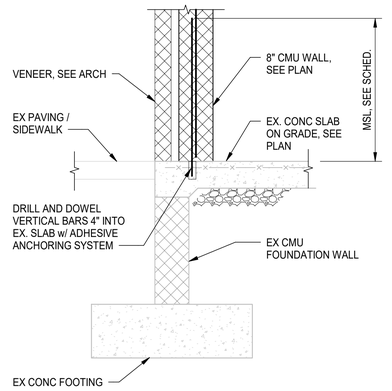
NOTE:
1. SEE MEP DRAWINGS FOR LOCATION.



NEW-TO-EXISTING FOOTING DOWELS — L / S301 — 3/4" = 1'-0"



SECTION — 5 / S301 — 3/4" = 1'-0"



SECTION — 2 / S301 — 3/4" = 1'-0"

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEIENGINEERING.COM

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #35854
EXPIRATION DATE: 06-19-2027

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
FOR CONSTRUCTION

ORIGINAL ISSUE DATE:
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

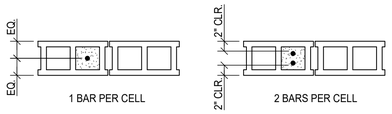
FOUNDATION DETAIL AND SECTIONS

SHEET
S301

4/8/2026 8:26:44 AM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MASONRY REBAR DEVELOPMENT & LAP SCHEDULE		
BAR SIZE	DEVELOPMENT OR LAP LENGTH	
	1 BAR PER CELL	2 BARS PER CELL
#3	18"	18"
#4	24"	24"
#5	30"	35"
#6	38" *	54"
#7	52" **	63"
#8	72"	72"
MARK	MSL	

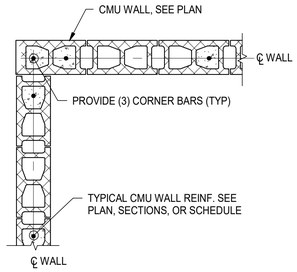


REINFORCED MASONRY WALL BAR PLACEMENT

A S302

3/4" = 1'-0"

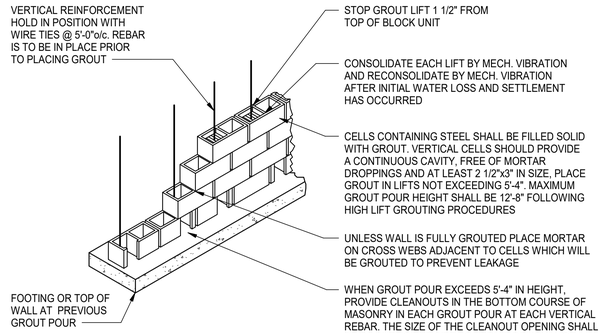
NOTES:
1. TOLERANCES FOR PLACEMENT OF VERTICAL REINFORCING IS +/- 1/2 INCH.
2. SECURE REINFORCING IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION LOADS OR BY PLACEMENT OF GROUT.
3. TABULATED LAP/DEVELOPMENT LENGTHS APPLY TO INDICATED CONDITIONS UNLESS NOTED THUS:
   * FOR #6 BARS CENTERED IN 6" CMU PROVIDE MINIMUM 54" LAP/DEVELOPMENT LENGTHS
   ** FOR #7 BARS CENTERED IN CMU GREATER THAN 8" WIDE, PROVIDE MINIMUM 42" LAP/DEVELPMENT LENGTHS. #7 BARS ARE NOT PERMITED IN 6" BLOCK.



REINFORCED MASONRY WALL CORNER

B S302

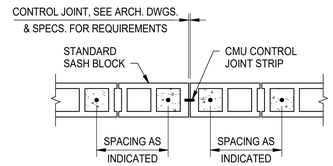
3/4" = 1'-0"



REINFORCED MASONRY WALL CONSTRUCTION

C S302

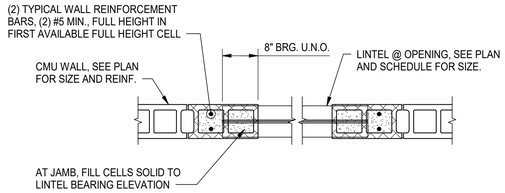
3/4" = 1'-0"



REINFORCED MASONRY WALL CONTROL JOINT

D S302

3/4" = 1'-0"

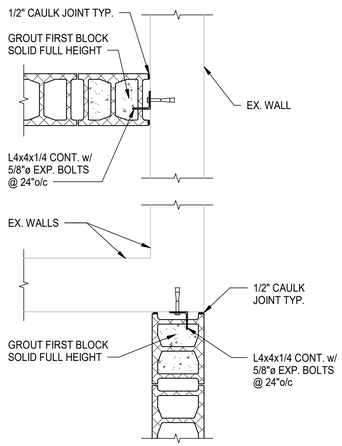


REINFORCED MASONRY WALL OPENING

E S302

3/4" = 1'-0"

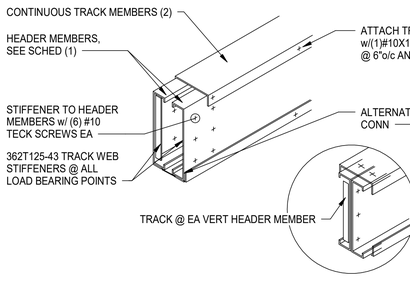
NOTE:
1. APPLIES TO ALL OPENINGS IN EXTERIOR AND/OR LOAD BEARING WALLS UNLESS OTHERWISE NOTED

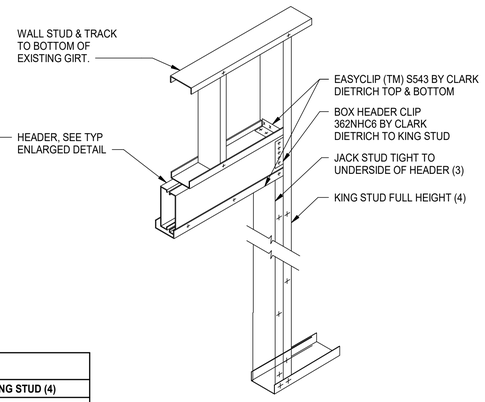


MASONRY WALL CONNECTION TO EXISTING WALL

F S302

3/4" = 1'-0"



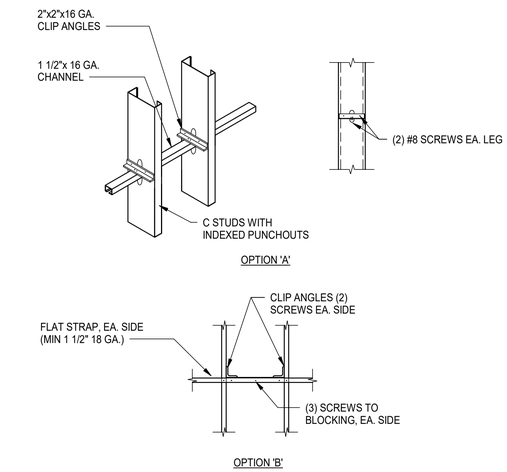


LIGHT GAUGE HEADER SCHEDULE				
MARK	HEADER MEMBERS (1)	TRACK MEMBERS (2)	JACK STUD (3)	KING STUD (4)
LGH1	(2) 600S162-68	(2) 362T150-68	362S162-68	(2) 362S200-68

LIGHT GAUGE HEADER

G S302

3/4" = 1'-0"

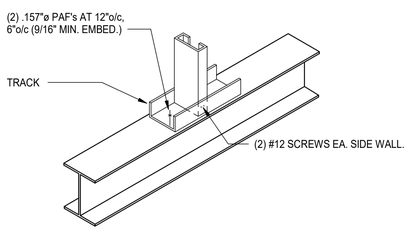


FLAT STRAP AND BLOCKING

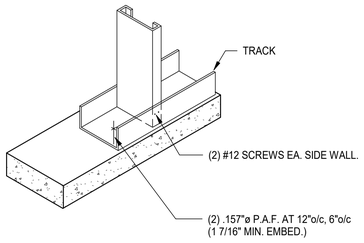
H S302

3/4" = 1'-0"

NOTE:
1. HORIZONTAL BRIDGING MUST BE INSTALLED AT 5'-0" o/c OR AT 1/3 POINTS OF WALL HEIGHT, WHICHEVER IS MORE RESTRICTIVE.



ANCHORAGE TO STEEL

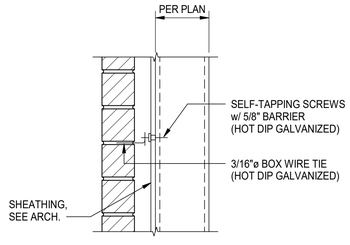


ANCHORAGE TO CONCRETE

STUD TRACK ATTACHMENTS

J S302

3/4" = 1'-0"



VENEER TO STUDS

K S302

3/4" = 1'-0"

NOTES:
1. ANCHOR SYSTEM TO POS-I-TIE BY HECKMAN OR APPOVED.
2. PROVIDE ONE ANCHOR FOR EVERY TWO SQ. FEET OF WALL. ADDITIONAL ANCHOR SHOULD BE PROVIDED @ 8"o/c AT JAMBS, CONTROL JOINTS AND CORNERS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEIENGINEERING.COM

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #35854
EXPIRATION DATE: 06-19-2027

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
FOR CONSTRUCTION

ORIGINAL ISSUE DATE:
04/17/2026

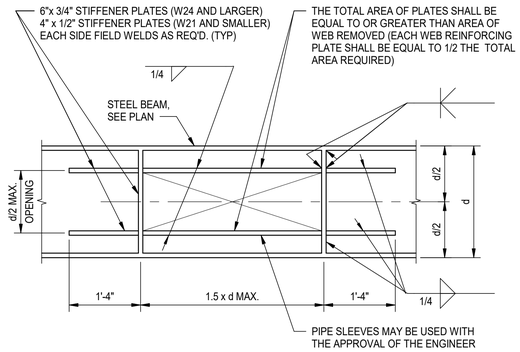
SHEET REVISION SCHEDULE:
No. DATE

MASONRY AND LIGHT GAUGE DETAILS

SHEET
S302

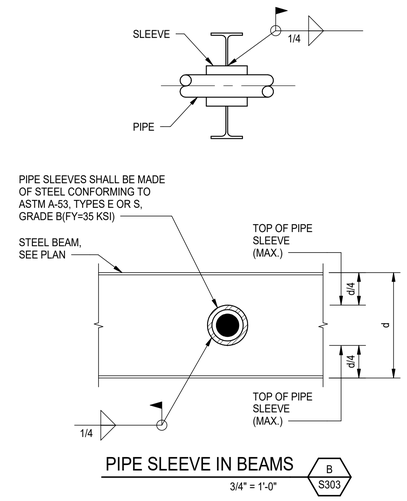
4/8/2026 8:26:44 AM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



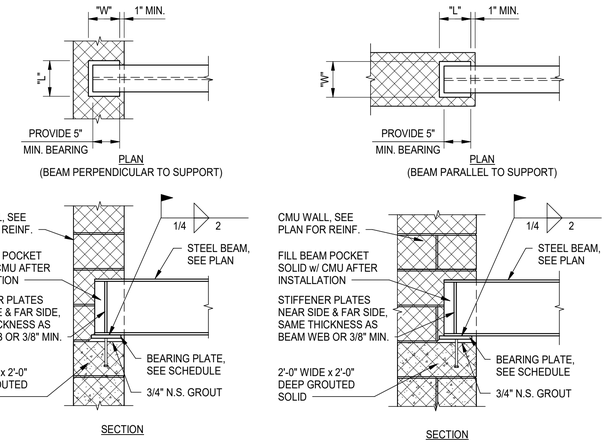
SLOTS IN BEAM — A — S303
3/4" = 1'-0"

NOTES:
1. OPENINGS SHALL BE EQUALLY SPACED BETWEEN STEEL BEAMS OR JOISTS.
2. END OF STIFFENER SHALL CLEAR STEEL BEAMS OR JOISTS BY 12" MINIMUM AND CLEAR COLUMNS BY 30" MINIMUM.
3. PROVIDE SLOTS IN BEAMS FOR PIPES, DUCTS, AND OTHER SIMILAR MECHANICAL WORK.
4. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENING.



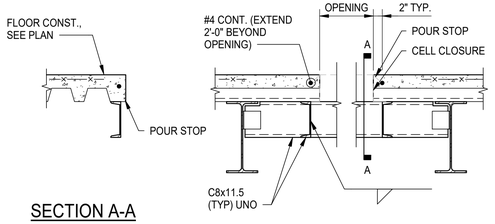
PIPE SLEEVE IN BEAMS — B — S303
3/4" = 1'-0"

NOTES:
1. PIPE SLEEVES SHALL CLEAR ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS BY 30" MIN.
2. PIPE SLEEVES SHALL BE SPACED NO CLOSER THAN 3'-0" o/c.
3. IF INSIDE DIAMETER OF PIPE SLEEVE EXCEEDS d/3, USE TYPICAL DETAIL FOR SLOTS IN BEAMS.
4. SEE ARCH. AND MECH. DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.



BEARING PLATE SCHEDULE				
MARK	T	W	L	ANCHOR BOLTS
BP-1	1/2"	6"	0'-6"	(2) 1/2"ø x 6" LG. HEADED STUDS

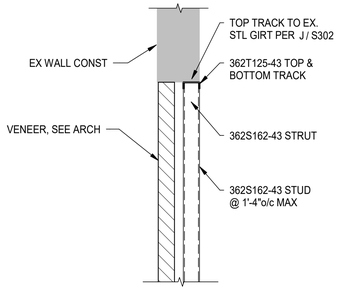
BEAM BEARING ON MASONRY WALL — C — S303
3/4" = 1'-0"



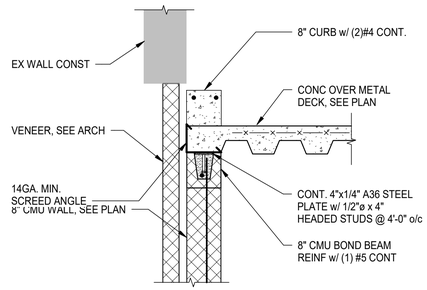
SECTION A-A

OPENING IN FLOOR > 12" — D — S303
3/4" = 1'-0"

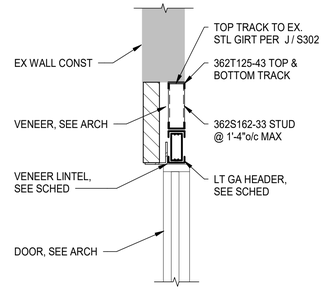
NOTES:
1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. THIS DETAIL SHALL APPLY FOR ALL OPENINGS GREATER THAN 12" SQUARE. IF FLOOR OPNEING IS 12" SQUARE OR LESS, PROVIDE 16 GAUGE MATERIAL 1'-0" WIDE AROUND OPENING PERIMETER SCREWED TO DECK.



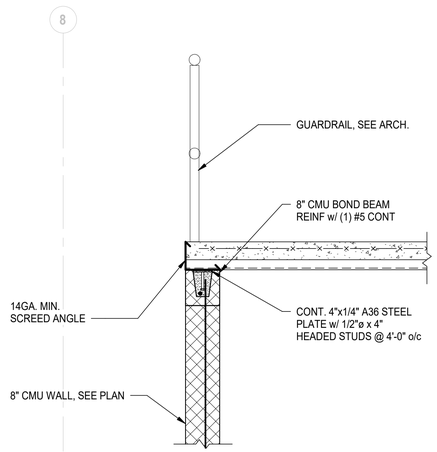
SECTION — 1 — S303
3/4" = 1'-0"



SECTION — 2 — S303
3/4" = 1'-0"



SECTION — 3 — S303
3/4" = 1'-0"



SECTION — 4 — S303
3/4" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
CARROLL ENGINEERING, INC.
215 SCHILLING CIRCLE, SUITE 102
HUNT VALLEY, MD 21031
410-785-7423
WWW.CEIENGINEERING.COM

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #35854
EXPIRATION DATE: 06-19-2027

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
FOR CONSTRUCTION

ORIGINAL ISSUE DATE:
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

STEEL DETAILS AND SECTIONS

SHEET
S303

4/8/2026 8:26:45 AM

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room 1 — Room Name / Number
- Area Being Demolished
- Area Not In Contract

Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC Symbols

- 24"x12" — Sq. Duct Size (Width x Height)
- 24"/12" — Oval Duct Size (Width / Height)
- 18"Ø — Round Duct Size (Diameter)
- (E) — Existing Duct To Remain
- Duct To Be Demolished
- S/A — Supply Air
- V/A — Ventilation Air
- O/A — Outdoor Air
- R/A — Return Air
- T/A — Transfer Air
- L/A — Building Relief Air
- E/A — General Exhaust Air
- KED — Kitchen Exhaust Duct
- LH — Laboratory Hood
- ETS — Env. Tobacco Smoke
- FLUE — Flue Gas Vent
- C/A — Combustion Air
- Rect. Supply Duct Rise / Drop
- Round Supply Duct Rise / Drop
- Rect. Return Duct Rise / Drop
- Round Return Duct Rise / Drop
- Rect. Exhaust Duct Rise / Drop
- Round Exhaust Duct Rise / Drop

Grille, Register, Diffusers

Square Ceiling Diffuser — CD3 | 500 | 10"Ø/24x24 | 29 | H6/9/17
- Type (See Schedule)
- Airflow
- Neck Size / Module Size
- Catalog Throw Performance
- Throw Pattern
- Max NC Rating

Round Ceiling Diffuser — CD11 | 100 | 6"Ø | TYP. X 4
- Airflow
- Neck Size
- Type Count for Space

Sidewall Supply Grille — SG1 | 500 | 18"x10" | AFF:9'-0"
- Airflow
- Nominal Duct Size
- Mounting Elevation (Centerline)

Linear Diffuser — LD8 | 200 | 8'Ø/2s/4'-0"L
- Airflow
- Neck Size/ Slot(s)/ Active Length

Sidewall Return Grille — RG1 | 800 | 16"x16" | AFF:9'-0"
- Airflow
- Nominal Duct Size
- Mounting Elevation (Centerline)

Ceiling Return — RG2 | 500 | 12"x12"/24x24 | 25
- Airflow
- Neck Size / Module Size
- Max NC Rating

Mechanical Equipment

RTU-1 — 10.0 ton
- Unit Identity
- Nominal Cooling Capacity

RTU-1 — 180000 Btu/h | 180 CFH
- Heating Capacity
- Gas Supply Input Rate

ET-1 — 379 lb
- Operating Weight

EF-XX — 500 CFM
- Design Airflow Rate

VAV 1-2 — 3.7 GPM
- Design Water Flow

AC-1 — AFF:7'-0"
- Bottom of Equipment Height

(E)AHU-2 — Existing to Remain Equipment

(R)AHU-3 — Existing Relocated Equipment

Equipment By Others (Refer To Other Disciplines)

Damper Types

- (B) Manual Damper
- (M) Motorized Damper
- (BD) Backdraft Damper
- (S) Smoke Damper
- Fire Damper
- (F/S) Comb. Fire/ Smoke Damper

Mechanical Piping Symbols

- 2" — Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- CHWR — Chilled-Water Return
- CHWS — Chilled-Water Supply
- CD — Condensate Drain
- CWR — Condenser-Water Return
- CWS — Condenser-Water Supply
- GWR — Geothermal-Water Return
- GWS — Geothermal-Water Supply
- HWR — Hot-Water Return
- HWS — Hot-Water Supply
- G — Natural Gas
- LP — Liquid Propane
- RL — Refrigerant Liquid
- RS/RL — Refrigerant Gas
- RD — Refrigerant Discharge
- STM — Steam Supply
- CDR — Steam Condensate Return
- Pipe Rise / Drop

Valve Types

2" SHUTOFF	Ball Valve
2" BAL	Balancing Valve
2" BFV	Butterfly Valve
2" CHECK	Check Valve
2" CHECK	Alternate Check Valve
3" CIRC	Circuit Setter
2" GATE	Gate Valve
2" GLOBE	Globe Valve
2" LOCK	Locked Shield Valve
2" PRV	Pressure Reducing Valve
2" QUICK	Quick Opening Valve
2" STRAIN	Fluid Strainer
2" M-CNTRL	Elec. Control Valve
4" 3-WAY CNTRL	3-Way Elec. Valve
1" GAS-CNTRL	Emergency Gas Shutoff
1" PLUG	Plug Valve
1" GAS COCK	Gas Shutoff Cock
1" REG	Gas Regulator

Mechanical Devices

AHU-1 — Unit Identity
- TS — Temperature Sensor
- TH — Temp/ Humidity Sensor
- TC — Temp/ CO2 Sensor
- T — Thermostat
- H — Humidistat
- HS — Humidity Sensor
- CO2 — Carbon Dioxide Detector
- CO — Carbon Monoxide Detector
- H2 — Hydrogen Gas Detector
- HZG — Hazardous Gas Detector
- NO2 — Nitrogen Dioxide Detector
- O2 — Oxygen Gas Detector

Project Requirements

A. REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

C. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.

D. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

E. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

F. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

G. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

H. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

I. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

J. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

K. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

L. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

M. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

N. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

O. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

P. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

Q. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

R. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

S. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

T. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

U. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

V. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

W. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

HVAC General Notes

A. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.

B. CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.

C. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.

D. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.

E. COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH NEW AND EXISTING LIGHTING.

F. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.

G. PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.

H. THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

HVAC SHEET INDEX

M-000	MECHANICAL TITLE SHEET
M-001	HVAC ZONE PLAN
MD111	MECHANICAL DEMOLITION PLAN - SOUTH
MD112	MECHANICAL DEMOLITION PLAN - NORTH
M-111	MECHANICAL NEW WORK PLAN - NORTH
M-112	MECHANICAL NEW WORK PLAN - SOUTH
M-113	MECHANICAL NEW WORK PLAN - EAST
M-114	MECHANICAL EQUIPMENT CEILING PLAN
M-121	MECHANICAL FLOOR PLAN - ROOF
M-211	MECHANICAL PIPING PLAN - NORTH
M-212	MECHANICAL PIPING PLAN - SOUTH
M-213	MECHANICAL PIPING PLAN - EAST
M-601	MECHANICAL SCHEDULES AND DETAILS
M-602	MECHANICAL SCHEDULES AND DETAILS
M-603	MECHANICAL SCHEDULES AND DETAILS

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone 302.738.7172
Fax 302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone 267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND — SCOTT A. FRENCK — No. 47259 — PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31 FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

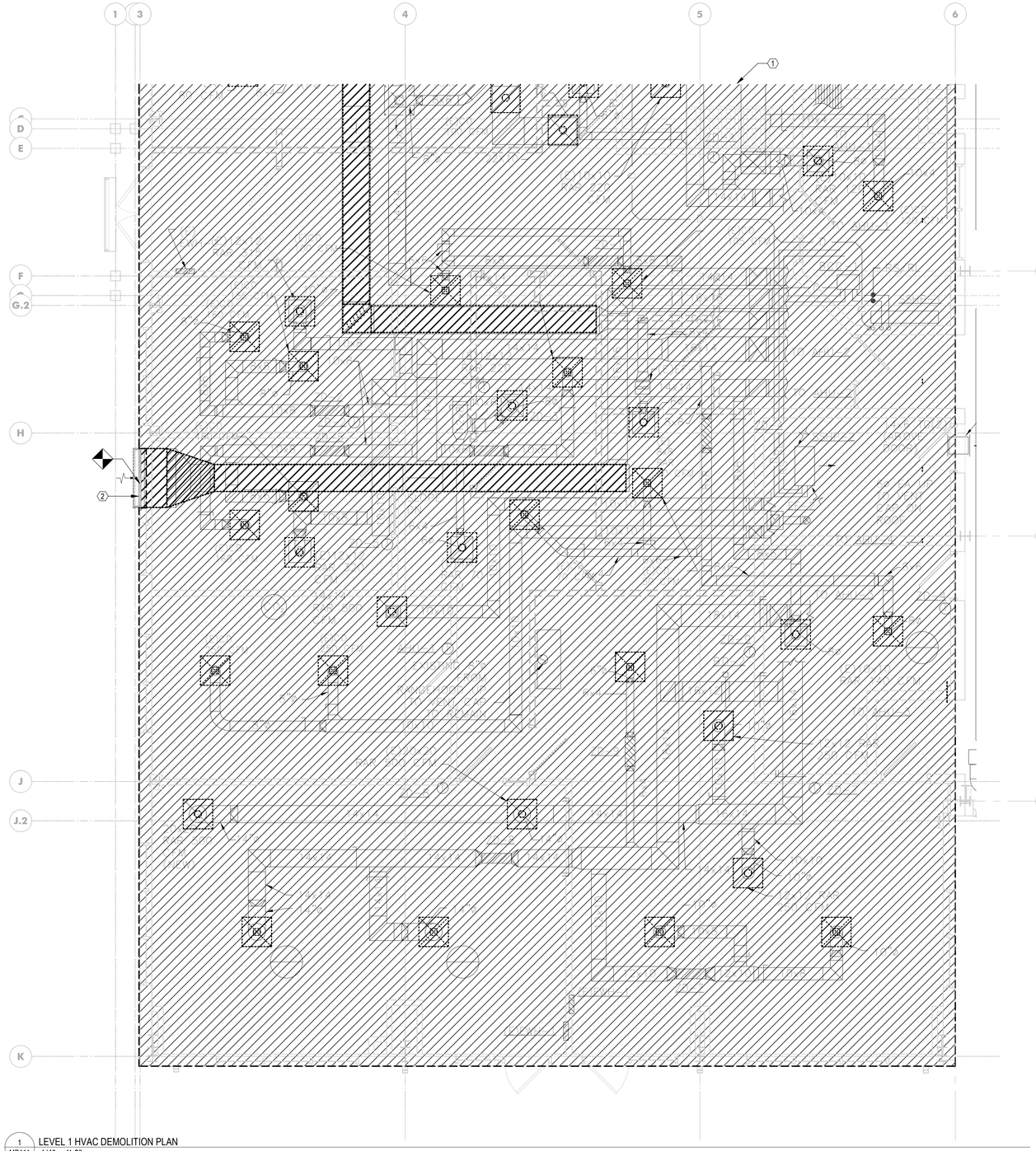
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL TITLE SHEET

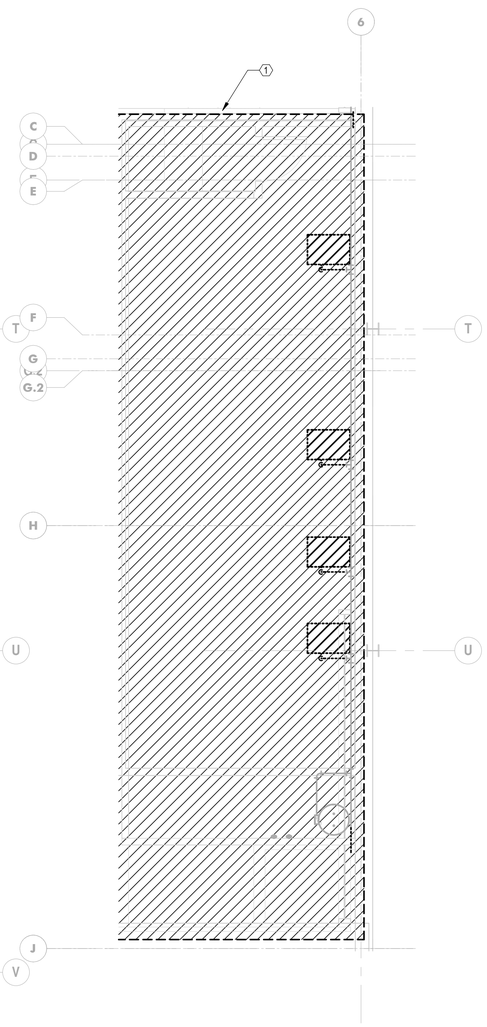
SHEET
M-000

4/17/2026 1:40:48 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 MD111 LEVEL 1 HVAC DEMOLITION PLAN
1/4" = 1'-0"



2 MD111 HVAC Floor Plan-02 Demo - MEZZ
1/4" = 1'-0"

DEMO KEYNOTES

1 ALL MECHANICAL DUCTWORK, PIPING, EQUIPMENT AND DIFFUSERS IN HATCHED REGION TO BE DEMOLISHED UNLESS OTHERWISE SPECIFIED. EXISTING UNIT HEATERS, AND ELECTRIC WALL HEATERS TO REMAIN. ALL EQUIPMENT IN APPARATUS BAY TO REMAIN. CONTRACTOR TO FIELD VERIFY ALL POSITIONS AND ROUTING, AND SHALL COORDINATE ALL WORK IN FIELD WITH OTHER DISCIPLINES AS REQUIRED.

2 EXISTING OUTDOOR AIR LOUVER TO REMAIN. LOUVER TO BE DISCONNECTED FROM DUCTWORK AND CAPPED OFF ON INSIDE OF BUILDING

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · NO. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL DEMOLITION PLAN - SOUTH

SHEET
MD111

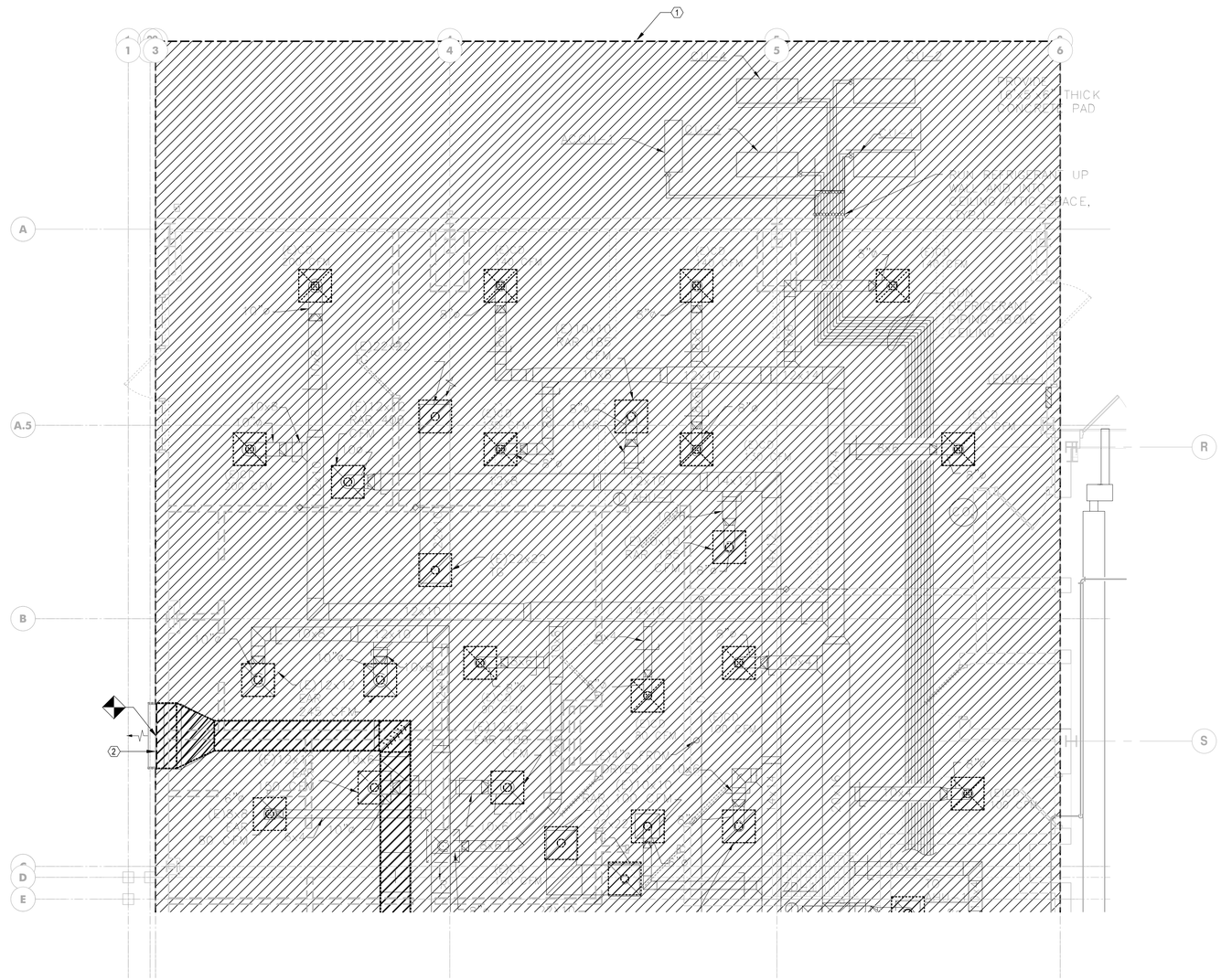
4/17/2026 1:40:49 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

DEMO KEYNOTES

1 ALL MECHANICAL DUCTWORK, PIPING, EQUIPMENT AND DIFFUSERS IN HATCHED REGION TO BE DEMOLISHED UNLESS OTHERWISE SPECIFIED. EXISTING UNIT HEATERS, AND ELECTRIC WALL HEATERS TO REMAIN. ALL EQUIPMENT IN APPARATUS BAY TO REMAIN. CONTRACTOR TO FIELD VERIFY ALL POSITIONS AND ROUTING, AND SHALL COORDINATE ALL WORK IN FIELD WITH OTHER DISCIPLINES AS REQUIRED.

2 EXISTING EXHAUST AIR LOUVER TO REMAIN. LOUVER TO BE DISCONNECTED FROM DUCTWORK AND CAPPED OFF ON INSIDE OF BUILDING



1 MD112 LEVEL 1 HVAC DEMOLITION PLAN
1/4" = 1'-0"

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND
SCOTT A. FRENCK
No. 47259
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

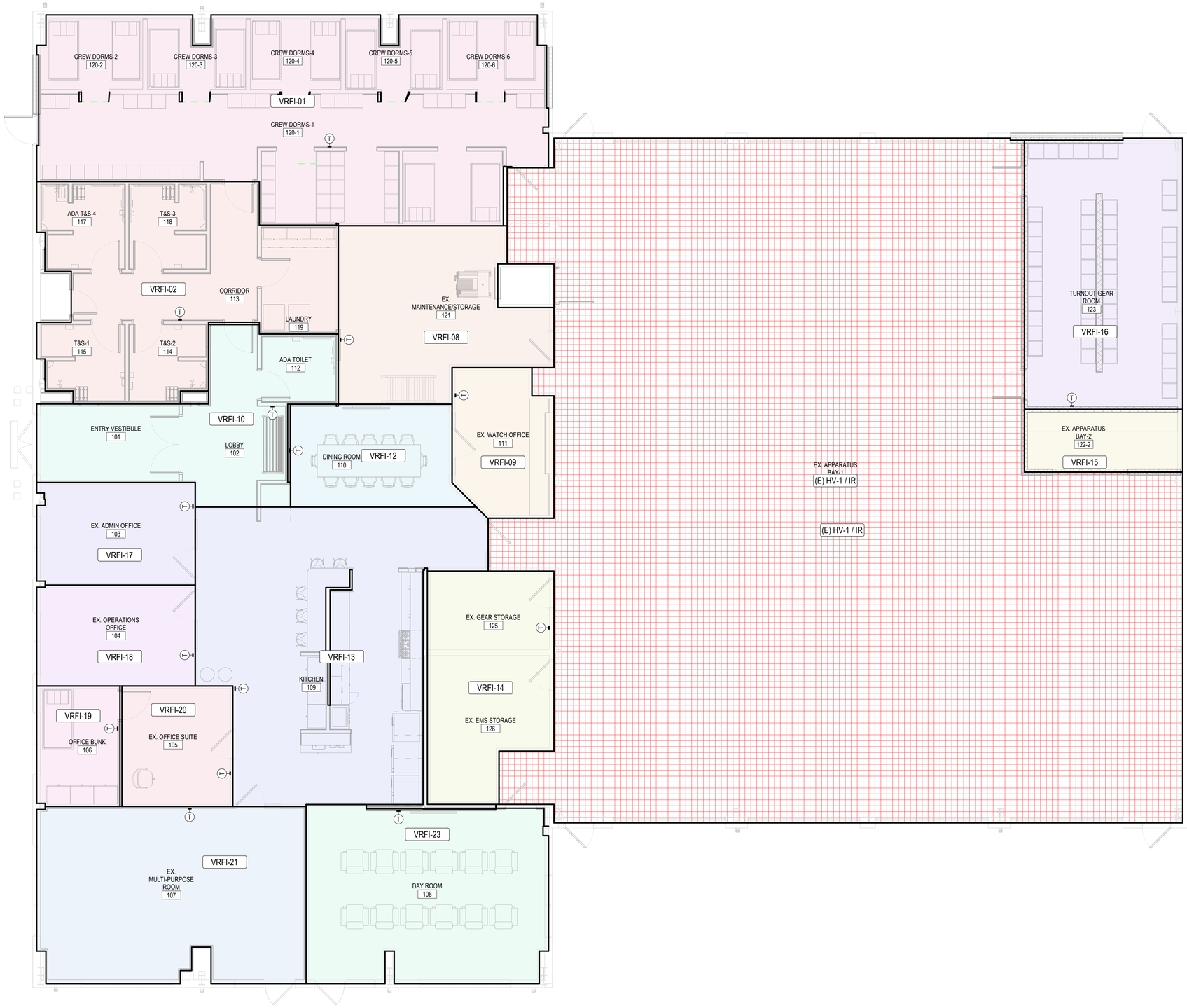
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL DEMOLITION PLAN - NORTH

SHEET
MD112

4/17/2026 1:40:49 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 M-001 HVAC Zone Diagram-01
3/16" = 1'-0"

HVAC Zone Legend

- (E) HV-1 / IR
- VRFI-01
- VRFI-02
- VRFI-08
- VRFI-09
- VRFI-10
- VRFI-12
- VRFI-13
- VRFI-14
- VRFI-15
- VRFI-16
- VRFI-17
- VRFI-18
- VRFI-19
- VRFI-20
- VRFI-21
- VRFI-23

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND
SCOTT A. FRENCK
No. 47259
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

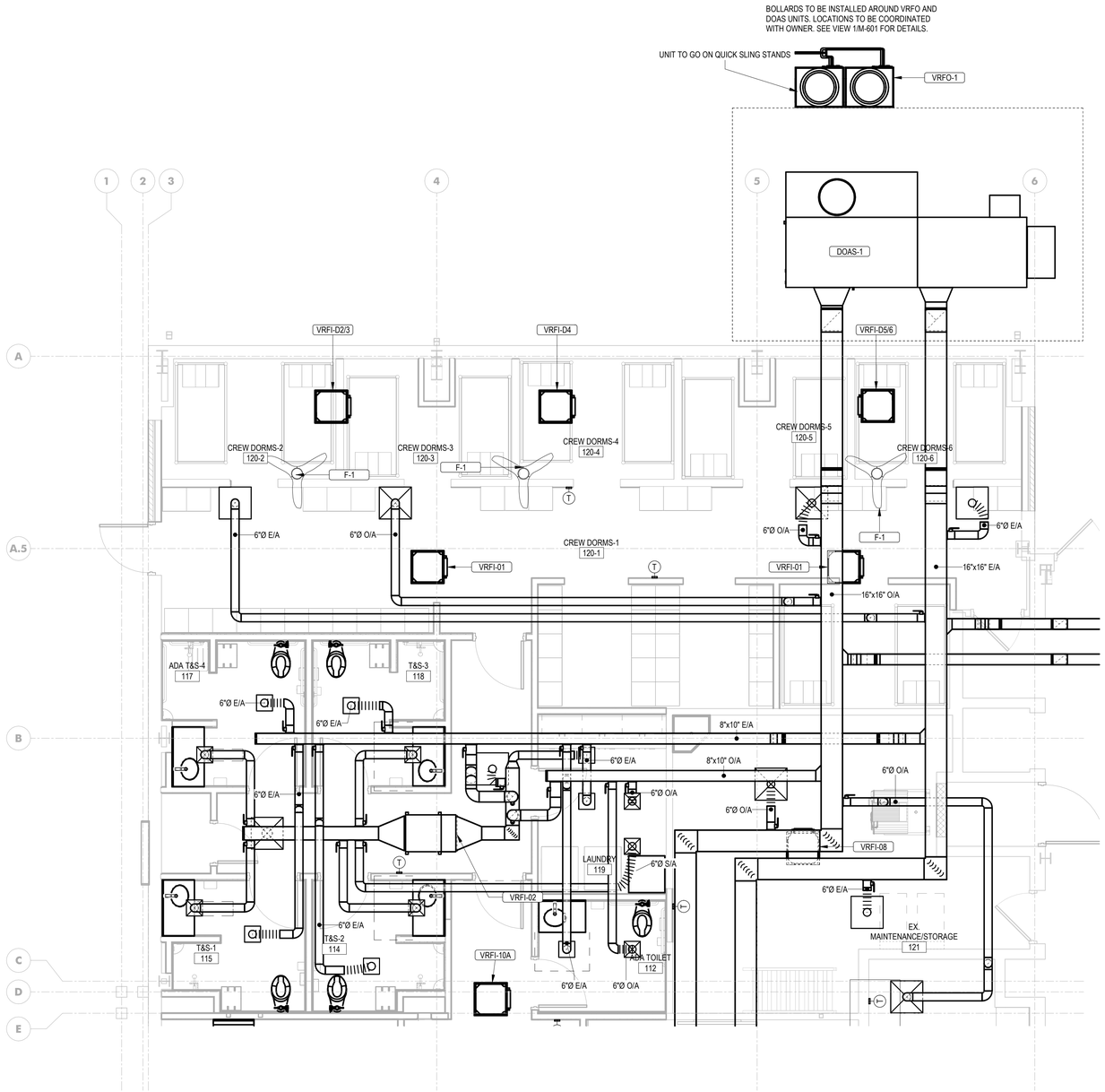
SHEET REVISION SCHEDULE:
No. DATE

HVAC ZONE PLAN

SHEET
M-001

4/17/2026 1:47:04 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 M-111 MECHANICAL NEW WORK PLAN - NORTH
1/4" = 1'-0"

STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Ducane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND
SCOTT A. FRENCK
No. 47259
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

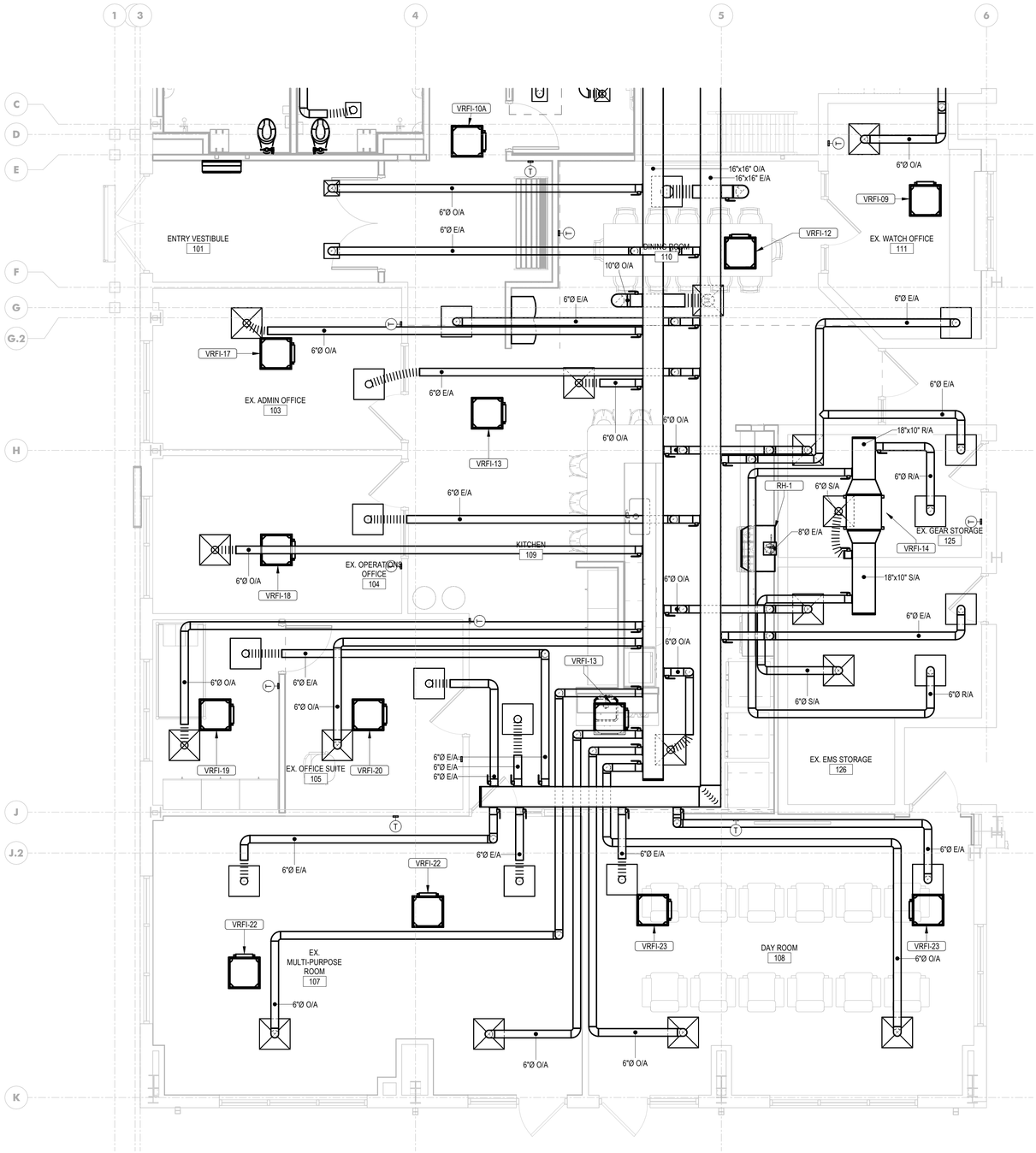
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL NEW WORK PLAN - NORTH

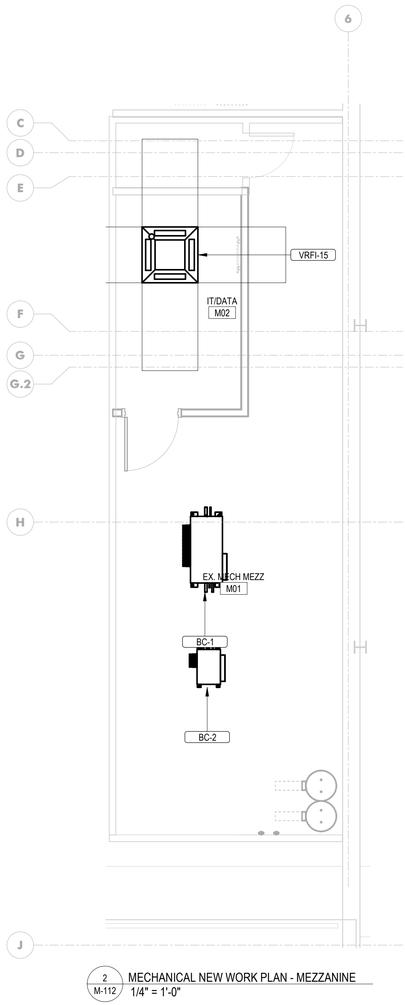
SHEET
M-111

4/17/2026 1:40:56 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 M-112 MECHANICAL NEW WORK PLAN - SOUTH
1/4" = 1'-0"



2 M-112 MECHANICAL NEW WORK PLAN - MEZZANINE
1/4" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

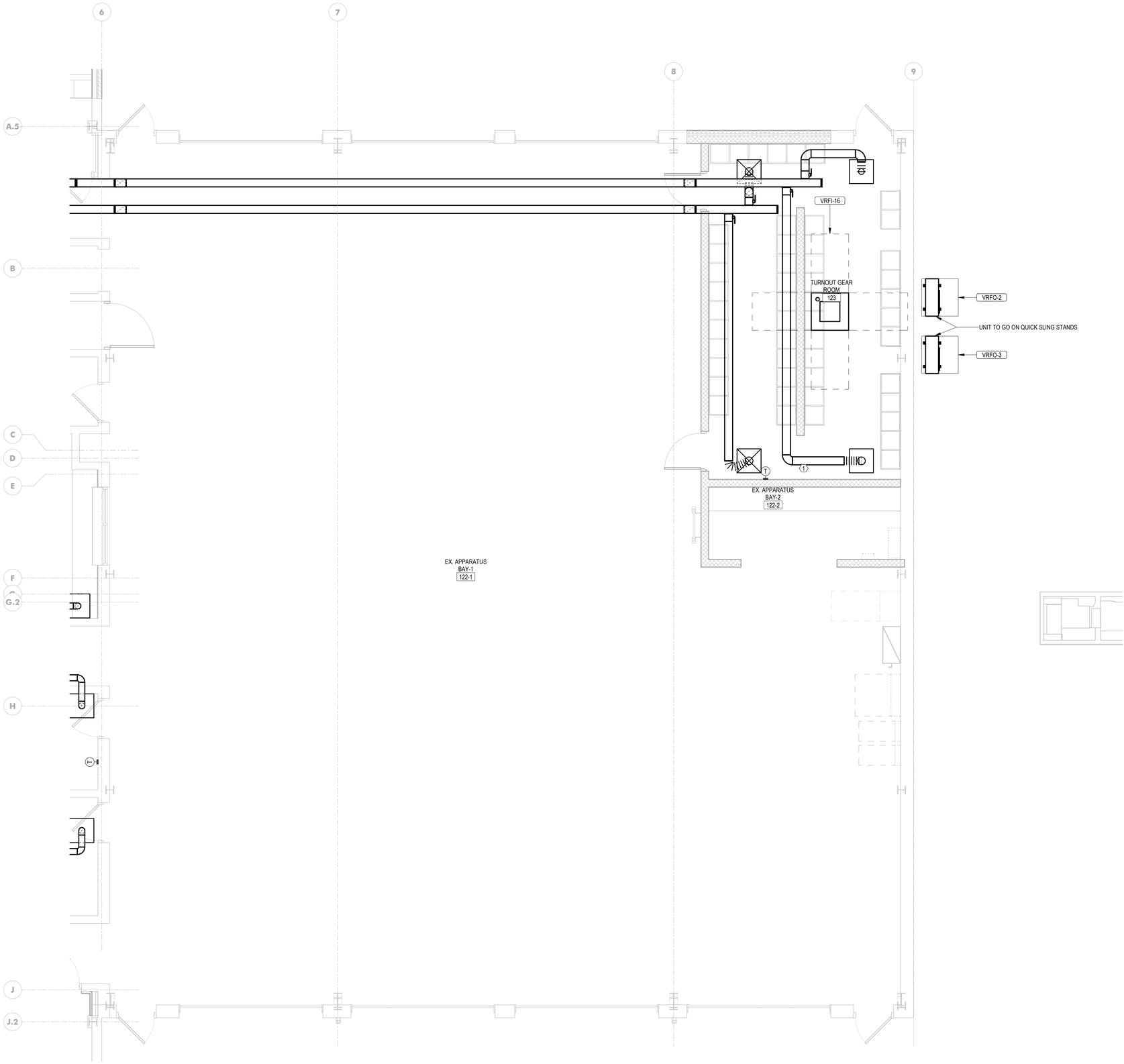
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL NEW WORK PLAN - SOUTH

SHEET
M-112

4/17/2026 1:40:59 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



2 M-113 MECHANICAL NEW WORK PLAN - EAST
1/4" = 1'-0"

KEYNOTES

1 CONTRACTOR TO CONSTRUCT FILTER RACK FOR VRFI-4.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND
SCOTT A. FRENCK
No. 47259
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

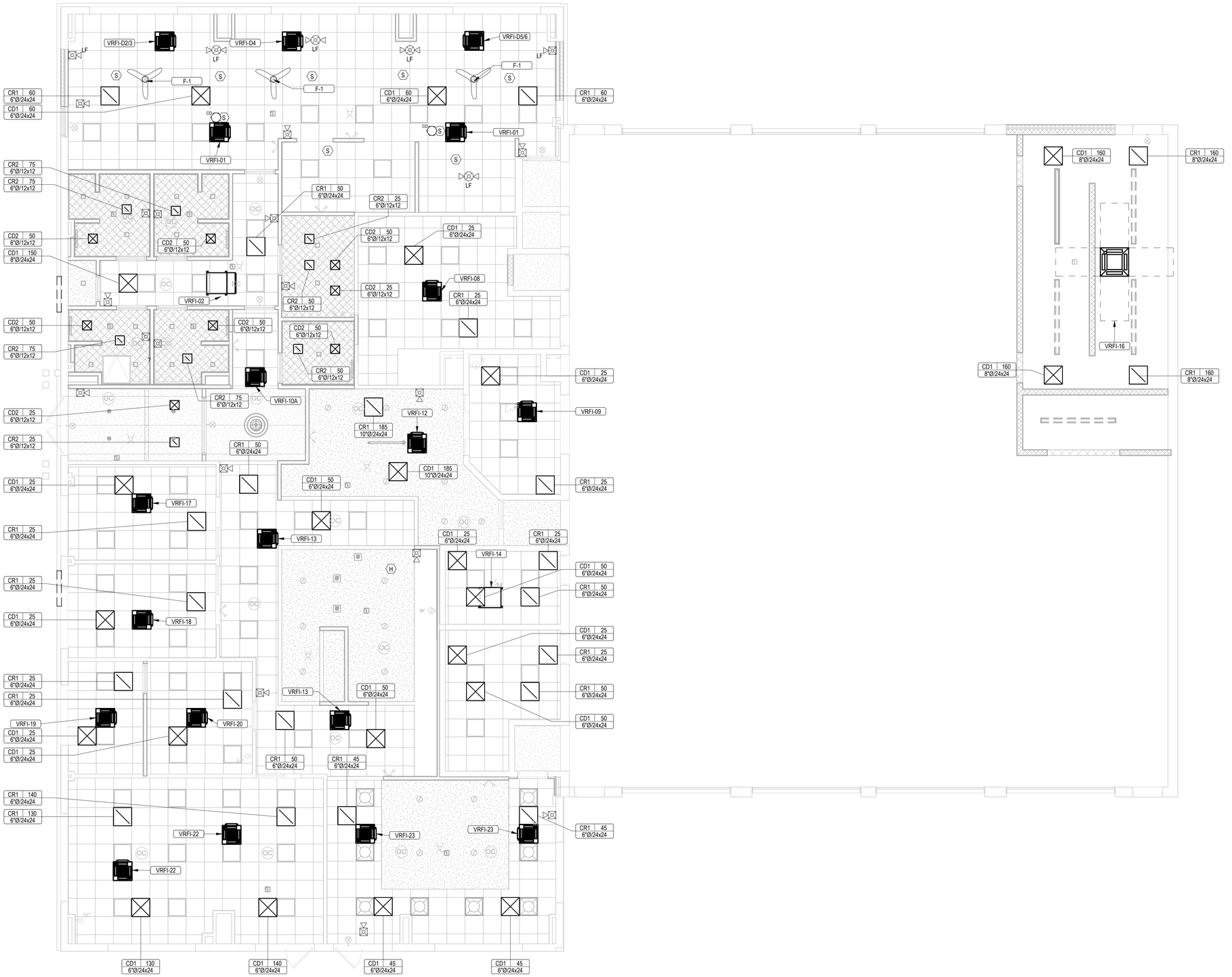
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL NEW WORK PLAN - EAST

SHEET
M-113

4/17/2026 1:41:00 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 M-114 MECHANICAL EQUIPMENT CEILING PLAN
3/16" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
☎ 410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

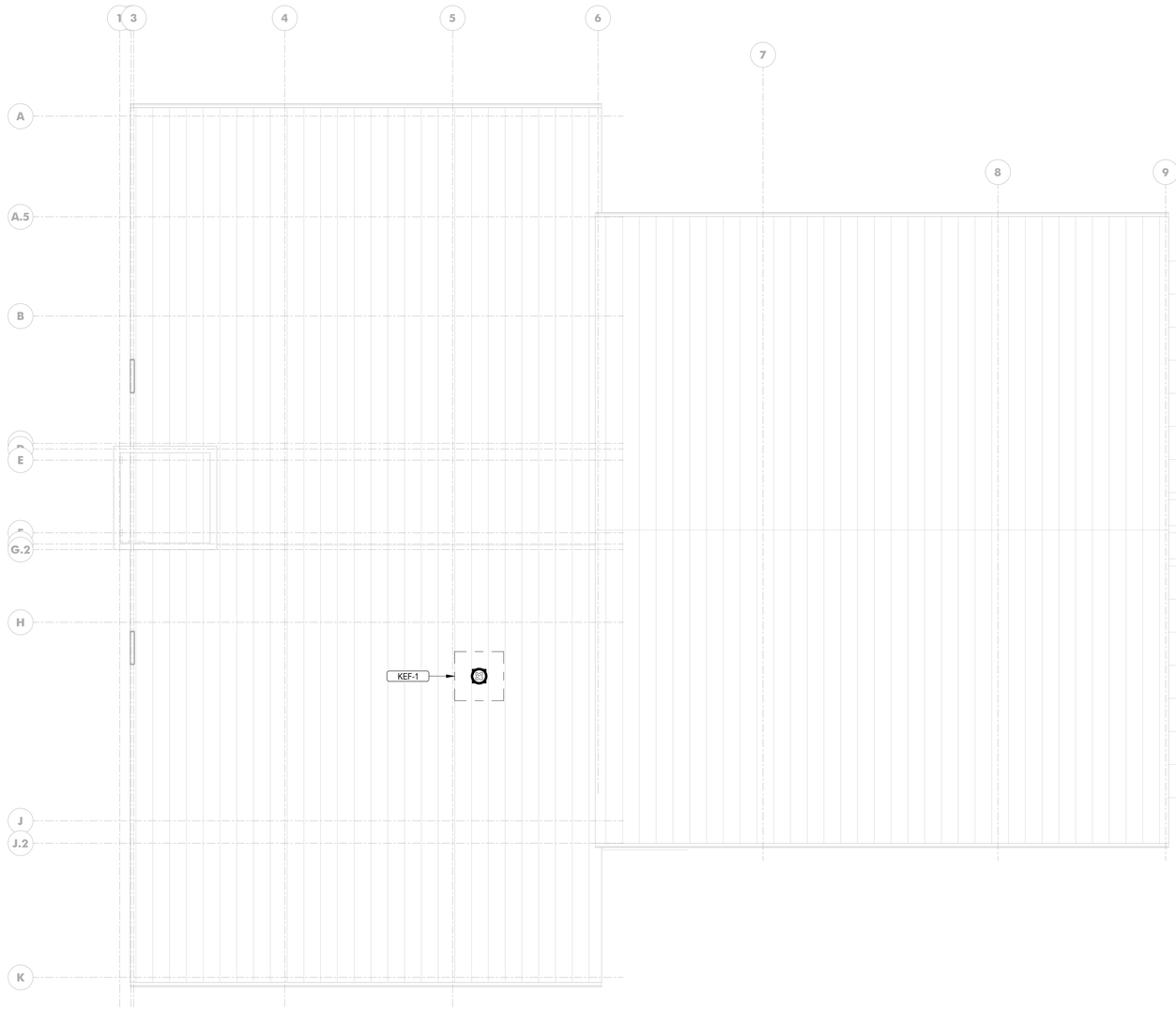
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL EQUIPMENT CEILING PLAN

SHEET
M-114

4/17/2026 1:41:04 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



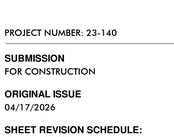
1 M-121 MECHANICAL FLOOR PLAN - ROOF
1/8" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

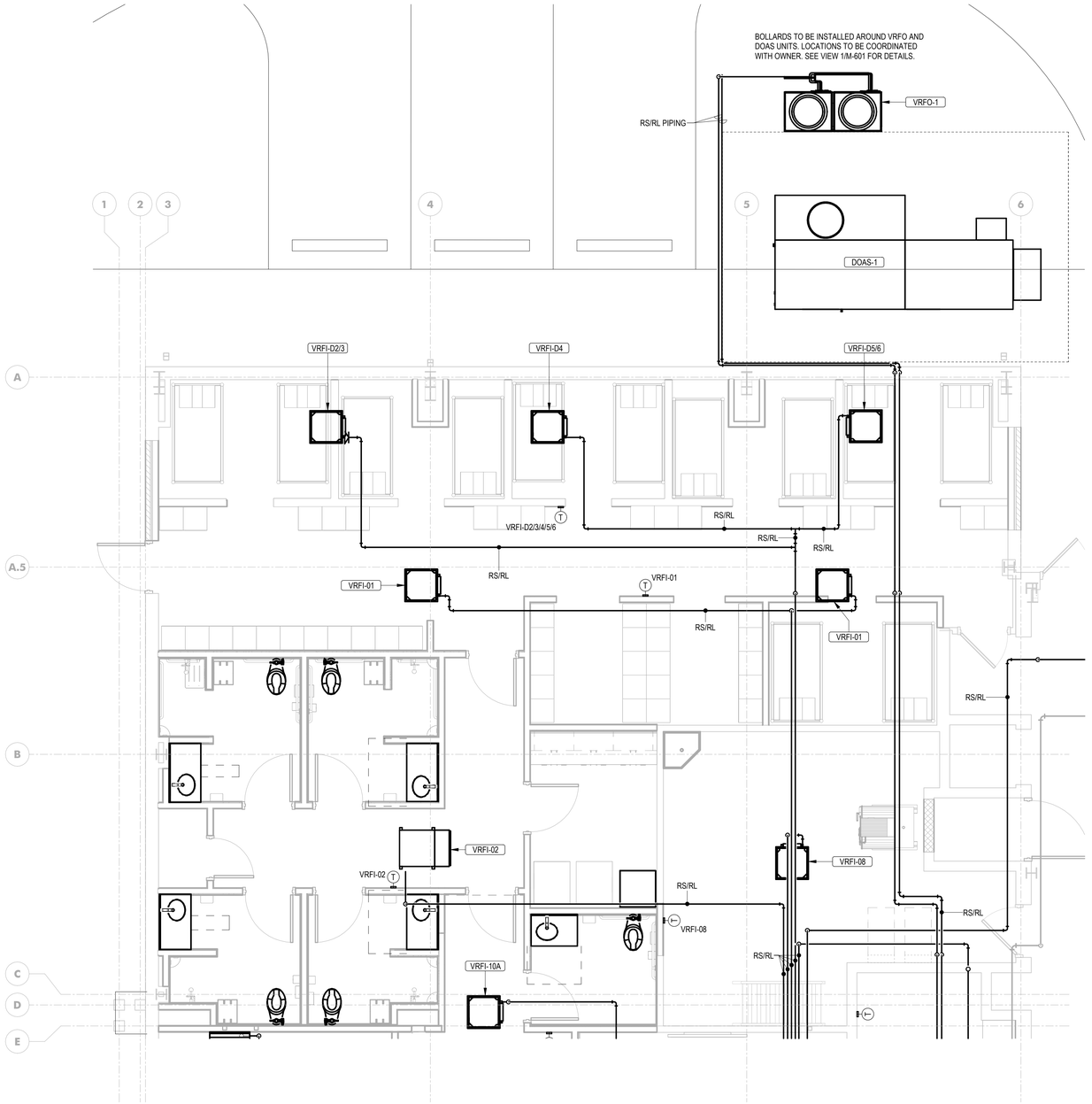
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL FLOOR PLAN - ROOF

SHEET
M-121

4/17/2026 1:41:04 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 M-211 MECHANICAL PIPING PLAN - NORTH
1/4" = 1'-0"

VRF PIPING NOTES

- SINGLE LINE REFRIGERANT PIPE FOR SCHEMATIC PURPOSES. PIPING SHALL BE MITSUBISHI 2-PIPE VRF SYSTEM.
- ALL REFRIGERANT PIPING SIZE AND ACCESSORIES AS RECOMMENDED BY EQUIPMENT MANUFACTURER. CONTRACTOR MUST SIZE BASED UPON AS INSTALLED CONDITIONS (TYP.)

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

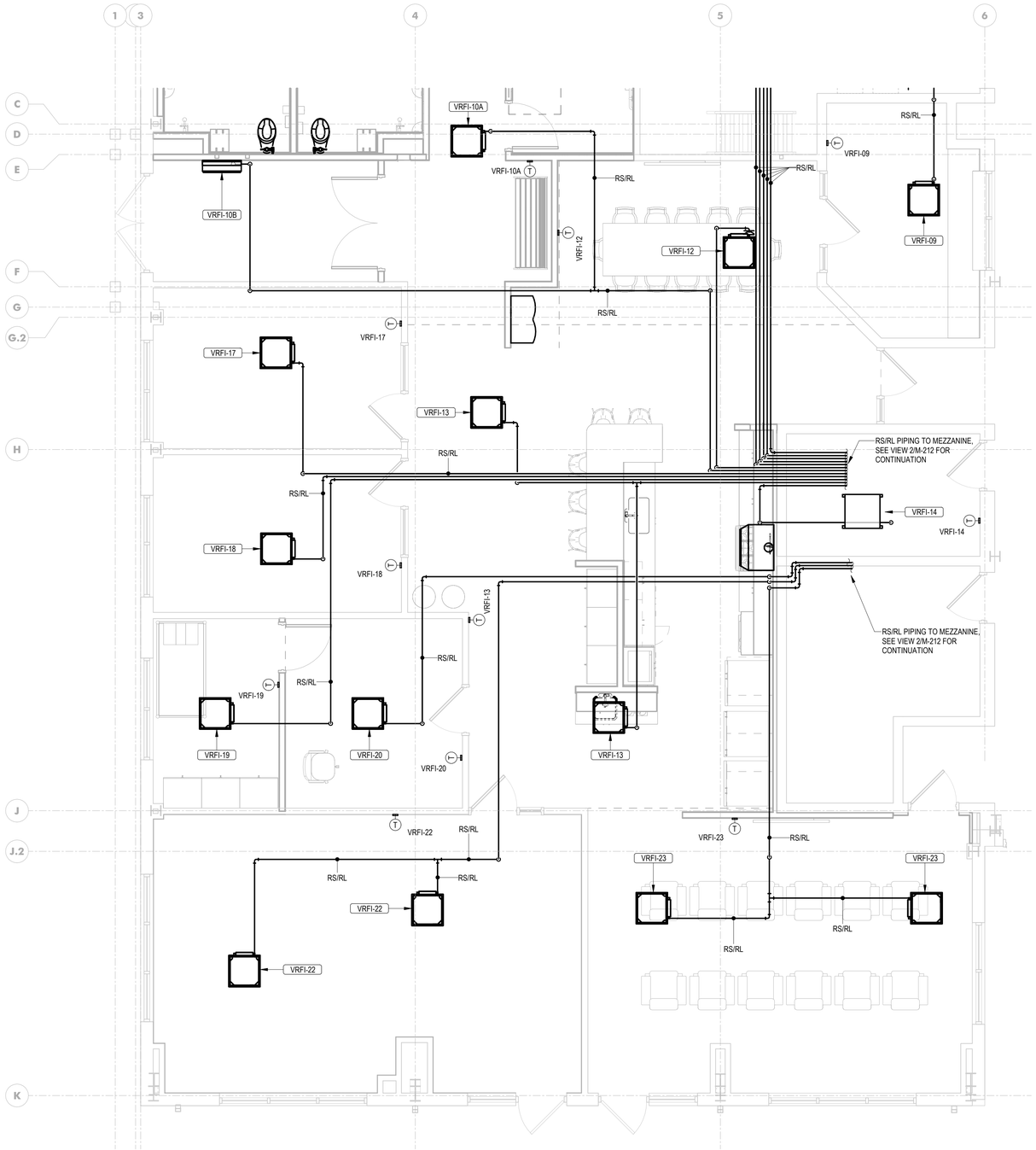
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL PIPING PLAN - NORTH

SHEET
M-211

4/17/2026 1:41:05 PM

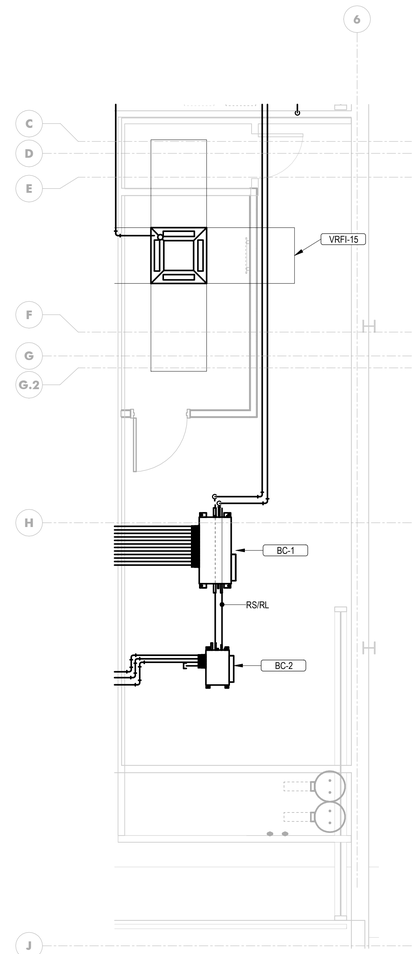
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 M-212 MECHANICAL PIPING PLAN - SOUTH
1/4" = 1'-0"

VRF PIPING NOTES

- SINGLE LINE REFRIGERANT PIPE FOR SCHEMATIC PURPOSES. PIPING SHALL BE MITSUBISHI 2-PIPE VRF SYSTEM.
- ALL REFRIGERANT PIPING SIZE AND ACCESSORIES AS RECOMMENDED BY EQUIPMENT MANUFACTURER. CONTRACTOR MUST SIZE BASED UPON AS INSTALLED CONDITIONS (TYP.)



2 M-212 MECH PIPING NEW WORK PLAN - MEZZANINE
1/4" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND
SCOTT A. FRENCK
No. 47259
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

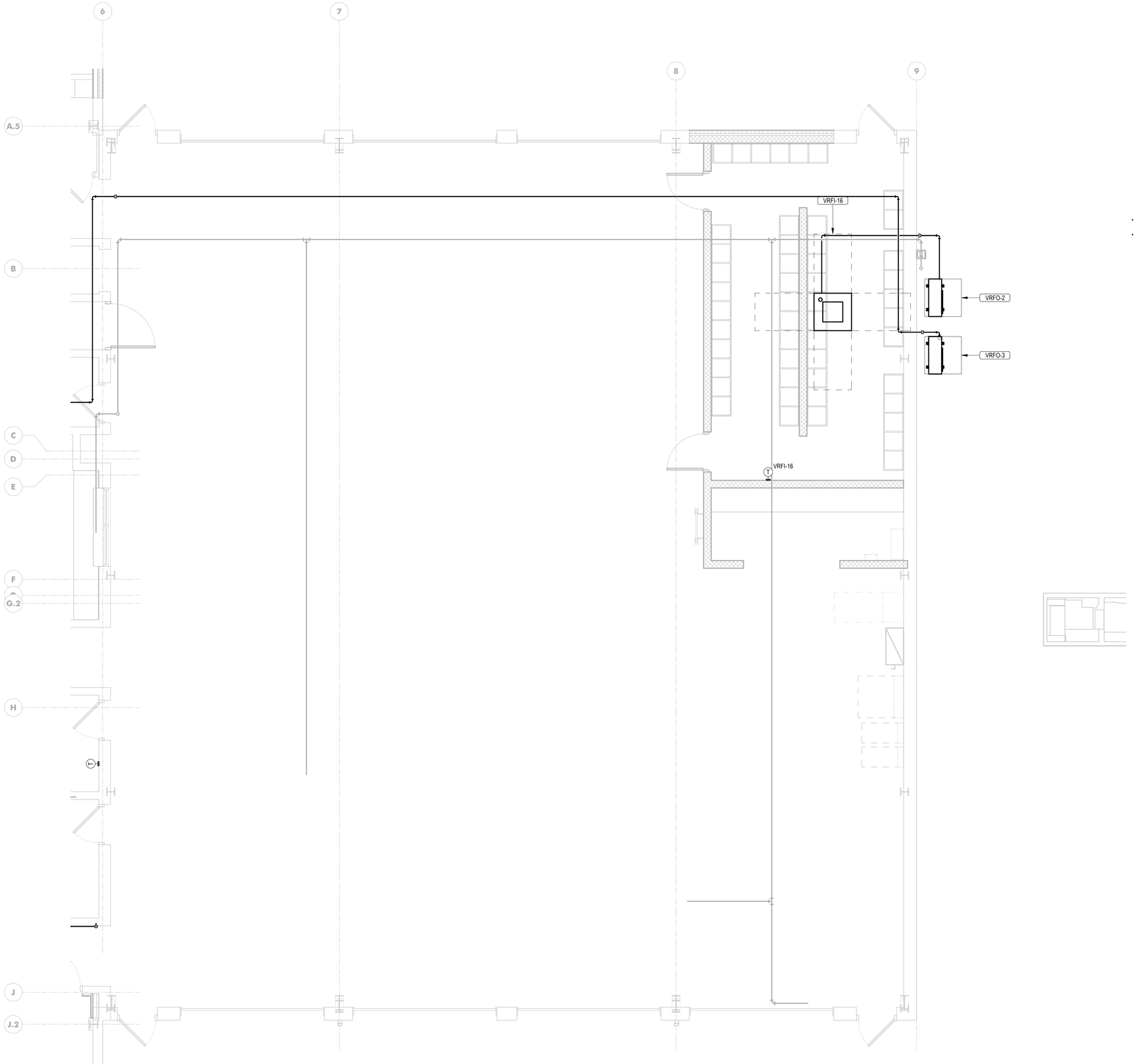
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL PIPING PLAN - SOUTH

SHEET
M-212

4/17/2026 1:41:08 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



VRF PIPING NOTES

- SINGLE LINE REFRIGERANT PIPE FOR SCHEMATIC PURPOSES. PIPING SHALL BE MITSUBISHI 2-PIPE VRF SYSTEM.
- ALL REFRIDGERANT PIPING SIZE AND ACCESSORIES AS RECOMMENDED BY EQUIPMENT MANUFACTURER. CONTRACTOR MUST SIZE BASED UPON AS INSTALLED CONDITIONS (TYP.)

1 M-213 MECHANICAL PIPING PLAN - EAST
1/4" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

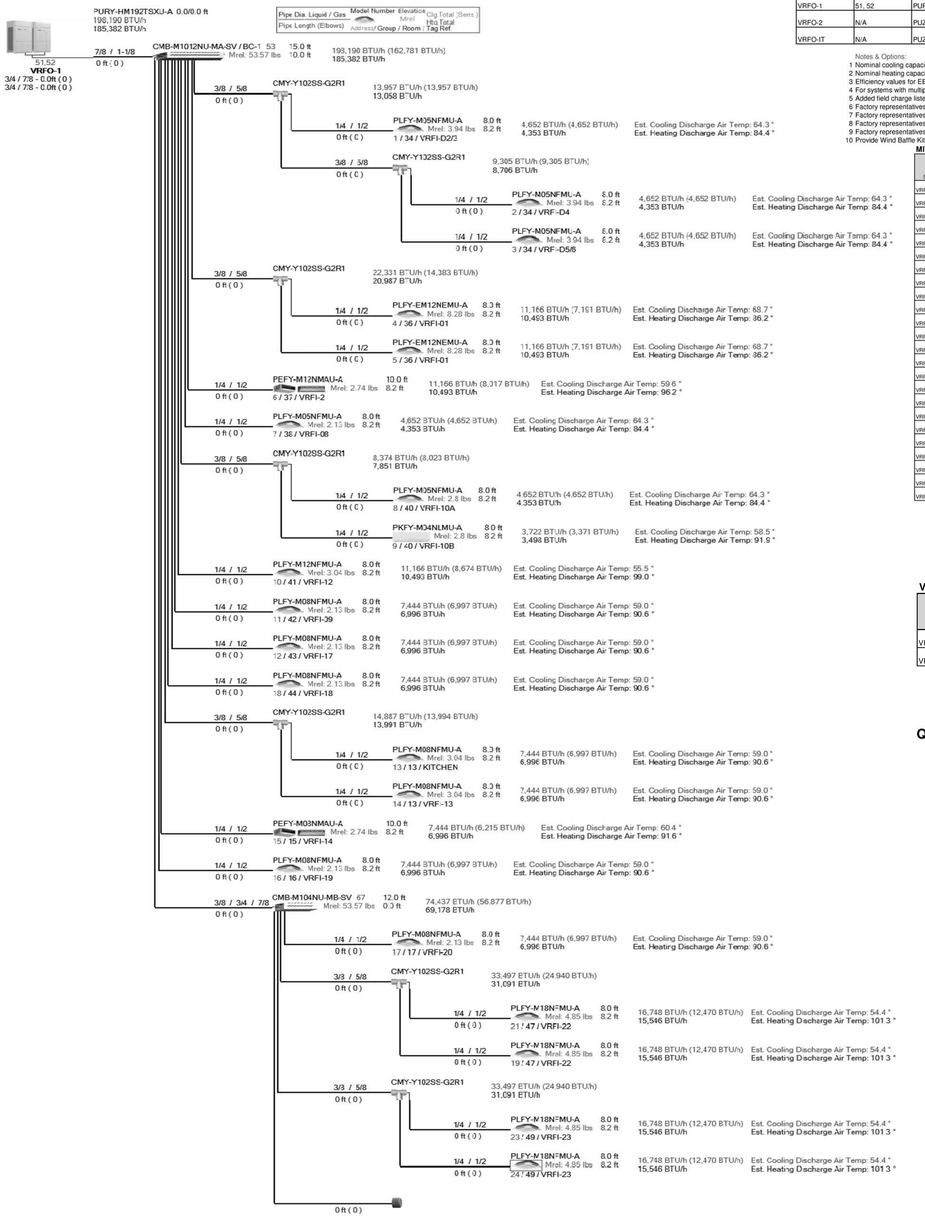
MECHANICAL PIPING PLAN - EAST

SHEET
M-213

4/17/2026 1:41:08 PM

Centralized System - 1 : VRFO-1

Piping Diagram Image (Design View)



MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

System Tag	M-NET Address	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency (I)EER [SEER]	EER2 [SEER2]	Heating COP @ 47°F [HSPF]	Nom System Connected Capacity (% of NOM)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Max Pipe Length from BC or 1st Joint (feet)	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Sound Pressure (dBA)	Inverter Driven Compressor Type / Quantity	Preliminary Added Field Charge (See Note 5)	Electrical-Per Module				Notes / Options
																			Voltage / Phase	208/230V / 3-phase [460V] MCA 208/230 or [460V]	RFS	MOCP	
VRFO-1	51, 52	PURY-HM192TSXU-A	HM96, HM96	192,000	215,000	22.95 / 13.35	0	4.010	110.9 %	94.0	7.0	0.0	7/8 / 1-1/8	198,189.7	185,382.3	85.5/85.5	SCROLL/2	25.8	208/230V / 3-phase 3-wire	60/60, 60/60	100/100, 100/100	100/100, 100/100	1, 2, 3, 4, 5, 6, 7, 8, 9
VRFO-2	N/A	PUZ-AK18NL		18,000	23,000	0 []	11 [24.7]	3.1 [9.8]	100.0 %	94.0	7.0	0.0	1/4 / 1/2	18,903.3	13,438.4	44/46		0.0	208/230V / 1-phase	16	20	27	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
VRFO-IT	N/A	PUZ-AK18NL		18,000	23,000	0 []	11 [24.7]	3.1 [9.8]	100.0 %	94.0	7.0	0.0	1/4 / 1/2	18,903.3	13,438.4	44/46		0.0	208/230V / 1-phase	16	20	27	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
4 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module swinning.
5 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
6 Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipment
7 Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations
8 Factory representatives shall provide on-site assistance for the BMS integration of the CITY MULTI equipment
9 Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the installation of equipment
10 Provide Wind Baffle Kit for Cooling to 0F for P-Series (SF for PURY and MXZ)

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	Tag Reference	M-NET Address	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / (Water in temp)	Heating Design Entering Temp DB/WB (°F) / (Water in temp)	Corrected Capacity						Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)	Estimated Cooling Coil LAT (°F) / [LWT]	Estimated Heating Coil LAT (°F) / [LWT]	Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm) / (Design gpm DU/EU/mc)	Max Fan ESP Setting 208/V/230V (IN WG)	Sound Pressure Per Fan Speed 208V/230V (dBA)	Voltage / Phase	Power Cooling 208V/230V (kW)	Power Heating 208V/230V (kW)	Electrical MCA/MFS	Condensate Removal Rate (gal/hr)	Notes / Options
									Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)																	
VRFO-1	VRFI-D2/3	1	PLFY-M05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	FULL DEMAND	4,652.3	4,652.3	FULL DEMAND	4,352.8	64.3	84.4	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-D4	2	PLFY-M05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	FULL DEMAND	4,652.3	4,652.3	FULL DEMAND	4,352.8	64.3	84.4	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-D5/6	3	PLFY-M05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	FULL DEMAND	4,652.3	4,652.3	FULL DEMAND	4,352.8	64.3	84.4	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-01	4	PLFY-EM12NEMU-A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	FULL DEMAND	11,165.6	7,191.3	FULL DEMAND	10,493.3	68.7	86.2	1/4 / 1/2	HIGH	600		27-29-30-31	208/230V/1-phase	0.03	0.02	0.39/15	0.5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
VRFO-1	VRFI-01	5	PLFY-EM12NEMU-A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	FULL DEMAND	11,165.6	7,191.3	FULL DEMAND	10,493.3	68.7	86.2	1/4 / 1/2	HIGH	600		27-29-30-31	208/230V/1-phase	0.03	0.02	0.39/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-2	6	PEFY-M12NMAU-A	Ceiling-Concealed (Ducted)	12,000	13,500	80.0/67.0	70	FULL DEMAND	11,165.6	8,017.0	FULL DEMAND	10,493.3	59.6	96.2	1/4 / 1/2	HIGH	371.0.6		26-30-34	208/230V/1-phase	0.052	0.05	1.8/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-D8	7	PLFY-M05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	FULL DEMAND	4,652.3	4,652.3	FULL DEMAND	4,352.8	64.3	84.4	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-10A	8	PLFY-M05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	FULL DEMAND	4,652.3	4,652.3	FULL DEMAND	4,352.8	64.3	84.4	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-10B	9	PKFY-M04NLMU-A	Wall -Mounted	4,000	4,500	80.0/67.0	70	FULL DEMAND	3,721.9	3,370.5	FULL DEMAND	3,497.8	58.5	91.9	1/4 / 1/2	HIGH	148		22-24-26-28	208/230V/1-phase	0.02	0.01	0.24/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-12	10	PLFY-M12NFMU-A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	FULL DEMAND	11,165.6	8,673.9	FULL DEMAND	10,493.3	55.5	99.0	1/4 / 1/2	HIGH	335		26-30-34	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-09	11	PLFY-M08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,443.7	6,997.1	FULL DEMAND	6,995.6	59.0	90.6	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-17	12	PLFY-M08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,443.7	6,997.1	FULL DEMAND	6,995.6	59.0	90.6	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-18	13	PLFY-M08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,443.7	6,997.1	FULL DEMAND	6,995.6	59.0	90.6	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	KITCHEN	13	PLFY-M08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,443.7	6,997.1	FULL DEMAND	6,995.6	59.0	90.6	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-19	14	PLFY-M08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,443.7	6,997.1	FULL DEMAND	6,995.6	59.0	90.6	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-14	15	PEFY-M08NMAU-A	Ceiling-Concealed (Ducted)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,443.7	6,215.5	FULL DEMAND	6,995.6	60.4	91.6	1/4 / 1/2	HIGH	300.0.6		24-28-30	208/230V/1-phase	0.042	0.04	1.8/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-20	16	PLFY-M08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,443.7	6,997.1	FULL DEMAND	6,995.6	59.0	90.6	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-D1	17	PLFY-M08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,443.7	6,997.1	FULL DEMAND	6,995.6	59.0	90.6	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-22	21	PLFY-M18NFMU-A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	FULL DEMAND	16,748.4	12,470.0	FULL DEMAND	15,545.7	54.4	101.3	1/4 / 1/2	HIGH	460		33-39-43	208/230V/1-phase	0.04	0.04	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-22	19	PLFY-M18NFMU-A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	FULL DEMAND	16,748.4	12,470.0	FULL DEMAND	15,545.7	54.4	101.3	1/4 / 1/2	HIGH	460		33-39-43	208/230V/1-phase	0.04	0.04	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-23	23	PLFY-M18NFMU-A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	FULL DEMAND	16,748.4	12,470.0	FULL DEMAND	15,545.7	54.4	101.3	1/4 / 1/2	HIGH	460		33-39-43	208/230V/1-phase	0.04	0.04	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-1	VRFI-23	24	PLFY-M18NFMU-A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	FULL DEMAND	16,748.4	12,470.0	FULL DEMAND	15,545.7	54.4	101.3	1/4 / 1/2	HIGH	460		33-39-43	208/230V/1-phase	0.04	0.04	0.36/15	0.5	1, 2, 3, 4, 5
VRFO-2	VRFI-16	N/A	PLA-AE18NL	Ceiling-Cassette (Four-Way)	18,500	24,000	80.0/67.0	70	FULL DEMAND	18,903.3	14,546.4	FULL DEMAND	13,438.4	57.1	90.8	1/4 / 1/2	HIGH	600		28 - 29 - 31 - 32	208/230V/1-phase				Powered by Outdoor	0.14	1, 2, 3, 4, 5
VRFO-IT	VRFI-15	N/A	PLA-AE18NL	Ceiling-Cassette (Four-Way)	18,500	24,000	80.0/67.0	70	FULL DEMAND	18,903.3	14,546.4	FULL DEMAND	13,438.4	57.1	90.8	1/4 / 1/2	HIGH	600		28 - 29 - 31 - 32	208/230V/1-phase				Powered by Outdoor	0.14	1, 2, 3, 4, 5

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system.
Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply.
It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
6 It is recommended to always base heating corrected capacity on full demand.
7 Provide Filter Box with MERV 13 Filters

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

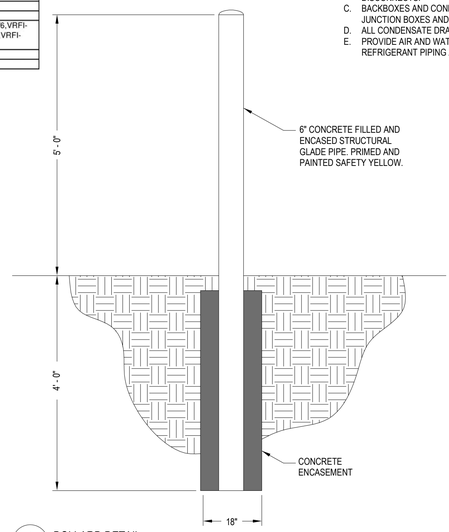
System Tag	Tag Reference	M-NET Address	Model Number	Type (double / Main / Sub)	Number of Ports	Connected Capacity to BC	Voltage / Phase	Power Cooling 208V/230V (kW)	Power Heating 208V/230V (kW)	MCA 208/230	Notes / Options
VRFO-1	BC-1	53	CMB-M1012NU-MA-SV	Main	12	213,000.0	208/230V/1-phase	0.09/0.1	0.06/0.06	0.13/0.13	1
VRFO-1	BC-2	67	CMB-M104NU-MB-SV	Sub	4	80,000.0	208/230V/1-phase	0.05/0.05	0.05/0.05	0.07/0.07	1

Notes & Options:
1 Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.
2 For sub BC controller CMB-P-NU-GB1 or -GB, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.

Quantities

Qty	Model	Description	Tag
17	PAC-YT53CRAU-J	Simple MA controller	CTR10-KITCHEN,CTR11-VRFI-14,CTR12-VRFI-19,CTR13-VRFI-20,CTR1-VRFI-D2/3,CTR2-VRFI-01,CTR3-VRFI-2,CTR4-VRFI-08,CTR5-VRFI-10A,CTR6-VRFI-12,CTR7-VRFI-09,CTR8-VRFI-17,CTR9-VRFI-18,CTR14-VRFI-22,CTR15-VRFI-23,CTR1-VRFI-16,CTR1-VRFI-15
1	PURY-HM192TSXU-A	R32 P2 Series Outdoor Unit	VRFO-1
2	PUZ-AK18NL	R454B P Series Outdoor Unit	VRFO-2,VRFO-IT
1	CMB-M1012NU-MA-SV	BC Controller Main	BC-1
1	CMB-M104NU-MB-SV	BC Controller Sub	
5	PLFY-M05NFMU-A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-D2/3,VRFI-D4,VRFI-D5/6,VRFI-08,VRFI-10A
2	PLFY-EM12NEMU-A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-01,VRFI-01
1	PEFY-M12NMAU-A	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-2
1	PKFY-M04NLMU-A	Wall -Mounted Indoor Unit	VRF1-10B
1	PLFY-M12NFMU-A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-12
7	PLFY-M08NFMU-A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-09,VRFI-17,VRFI-18,KITCHEN,VRFI-13,VRFI-19,VRFI-20
1	PEFY-M08NMAU-A	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-14
4	PLFY-M18NFMU-A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-22,VRFI-22,VRFI-23,VRFI-23
2	PLA-AE18NL	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-16,VRFI-15
7	CMY-Y102SS-G2R1	Branch Joint	
1	AE-C400A	System Remote Controller	CTR1
1	LIC-BACNET-MASTER	Software License	
2	WB-PA4	Wind Baffle	
17	SLP-18FAU	Decoration Panel	KITCHEN,VRFI-13,VRFI-19,VRFI-20,VRFI-D2/3,VRFI-D4,VRFI-D5/6,VRFI-08,VRFI-10A,VRFI-12,VRFI-09,VRFI-17,VRFI-18,VRFI-22,VRFI-22,VRFI-23,VRFI-23
2	FBM2-1-A	Filter Box	VRFI-14,VRFI-2
4	PLP-41EAEU	Grille with 3D i-see Sensor™	VRFI-01,VRFI-01,VRFI-16,VRFI-15

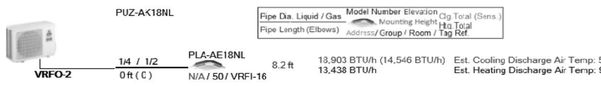
VRF SYSTEM INSTALLATION NOTES:
1. THE PURCHASE AND INSTALLATION OF THE VRF SYSTEM SHALL BE BY FREDERICK COUNTY OFFICE OF FACILITY MAINTENANCE (OFM). OFM SHALL WORK WITH THE GC TO MAINTAIN THE GC'S PROJECT SCHEDULES. AN OFM REPRESENTATIVE SHALL ATTEND ALL JOB CONFERENCES.
2. ALL REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS SHALL APPLY TO ALL ON-SITE OFM EMPLOYEES, CONTRACTORS, AND INSTALLERS.
3. FREDERICK COUNTY OFFICE OF FACILITY MAINTENANCE RESPONSIBILITES:
   A. PURCHANSE OF:
      a. ALL INDOOR VRF UNITS (LABELED VRFI).
      b. ALL EXTERIOR HEAT RECOVERY CONDENSING UNITS (LABELED VRFO).
      c. ALL BRANCH CONTROLLERS (LABELED BC).
      d. ALL ASSOCIATED REFRIGERANT PIPING.
      e. ALL REFRIGERANT SYSTEM ACCESSORIES AND APPURTENANCES.
      f. ALL REFRIGERANT NECESSARY TO PROPERLY CHARGE THE SYSTEM.
      g. ALL VRF SYSTEM CONTROLS AND CONTROLLERS, AND
      h. ALL VRF SYSTEM ACCESSORIES AND APPURTANCSE NECESSARY FOR A COMPLETE AND FUNCTIONING INSTALLED SYSTEM.
   B. HANGING OF ALL INDOOR UNITS (LABELED VRFI)
   C. INSTALLATION OF ALL OUTDOOR UNITS (LABELED VRFO), INCLUDING THE OUTDOOR UNIT SUPPORTS. EXTERIOR CONCRETE PADS SHALL BE BY THE GC.
   D. INSTALLATION OF THE REFRIGERANT PIPING ASSOCIATED WITH THIS SYTEM, FROM THE OUTSIDE UNITS THROUGH TO THE INDOOR UNITS.
   E. INSTALLATION OF ALL CONTROL WIRING ASSOCIATED WITH THIS SYSTEM, INCLUDING TIE-IN TO BAS.
   F. ALL DUCTWORK ASSOCIATED WITH THE DEDICATED OUTDOOR AIR (DOAS).
   G. INSTALLATION OF ALL DUCTING ASSOCIATED WITH THE DOAS UNIT IN PPE GEAR ROOM.
   H. REFRIGERANT CHARGING OF SYSTEM.
   I. SYSTEM START-UP AND PROGRAMMING.
4. THE GENERAL CONTRACTOR SHALL INSTALL THE FOLLOWING:
   A. INSTALLATION OF CONCRETE LEVELING OR HOUSEKEEPING PADS.
   B. POWER WIRING TO ALL INDOOR UNITS AND OUTDOOR UNIT INCLUDING DISCONNECTS.
   C. BACKBOXES AND CONDUIT IN WALLS FOR VRF SYSTEM CONTROL WIRING. JUNCTION BOXES AND CONDUIT TO THE OUTDOOR UNITS FOR CONTROL WIRING.
   D. ALL CONDENSATE DRAIN PIPING.
   E. PROVIDE AIR AND WATER TIGHT SEAL AT EXTERIOR WALL PENETRATIONS FOR REFRIGERANT PIPING AND ELECTRICAL CONDUIT.



1 M-601 BOLLARD DETAIL
NOT TO SCALE

Centralized System - 1 : VRFO-2

Piping Diagram Image (Design View)


PUZ-AK18NL
Pipe Dia. Liquid / Gas
Model Number Elevation
Clg Total (Sens.)
Pipe Length (Elbows)
Mounting Height
Htg Total
Address / Group / Room / Tag Ref.
VRFO-2
1/4 / 1/2
0 ft (C)
PLA-AE18NL
N/A / 50 / VRFI-16
8.2 ft
13,903 BTU

PremiSys® **Model:** MPE-1-W3-5-C-060-D3 MITSUBISHI ELECTRIC COOLING & HEATING

Job Name: 24P187 MWS Westview Fire Station
Mark Name: DOAS-1 | Date: February 20, 2026

Dedicated Outdoor Air System Features

- UL/cUL199/60335-2-40
- Exterior housing constructed of galvanized steel
- Energy recovery cassette with a desiccant wheel
- Direct-drive airfoil plenum blowers with factory mounted VFDs
- Ball bearing motors
- Corrosion resistant fasteners
- Internally lined with galvanized steel metal creating a double wall
- Insulation - 2 inch 2.4# R16 foam
- Internally mounted control center with motor starters, 24 VAC control transformers, control circuit fusing
- Exhaust discharge gravity backdraft damper

Selected Accessories

- UL/cUL60335
- Weatherhood: Downturned Hood
- Expansion Board
- Return Air Intake - Side
- Frost Control: Modulating Wheel
- Outdoor Air Filters - MERV 8, 2-20x25x2
- Exhaust Air Filters - MERV 8, 2-20x25x2
- Supply Filters - 2" Pleated MERV 8 and MERV 13, 4-20x20x2, 4-20x24x2
- Outdoor Air Dampers - Motorized Low Leakage
- Exhaust Air Dampers - Motorized Low Leakage
- Damper End Switch - Outdoor Air Damper
- Painted Exterior - RAL7023
- Microprocessor Controls
- Supply Fan VFD Control - Constant Volume-Adj. Setpoint
- Exhaust Fan VFD Control - Space Static Pressure By Factory
- Economizer Mode - Temp./Enthalpy
- OA RH Sensor
- Wheel Control - Modulating Wheel
- Network Protocol: BACNetMSTP
- Remote Display w/75' Cord
- Rotation Sensor
- Phase and Brown Out Protection
- SCCR - 5kA
- Unit Disconnect - Mounted By Factory
- Spare Energy Wheel Belt
- Spare Filter Set 1 Outdoor, 1 Exhaust, 1 Final MERV 8 and MERV 13
- Web-Based User Interface

Important Notes:

Air-Source Heat Pump heating may go into defrost or extended lock out (until weather pattern changes) during high humidity or precipitation events. Without supplemental heat, supply discharge temperature may be extremely low during defrost. To avoid this, consider selecting supplemental heat.

A2L Installation Requirement - UL 60335-2-40		
A2L	Largest Circuit Charge	23.4lb / 10.6kg
	Minimum Circulation Airflow	634 CFM
	Minimum Total Conditioned Room Area	351 ft2

Note: Local codes and standards may have requirements regarding the installation of A2L refrigerant in addition to manufacturing instructions provided for listed and labeled equipment.

PremiSys® **Model:** MPE-1-W3-5-C-060-D3 MITSUBISHI ELECTRIC COOLING & HEATING

Specifications			Model Name
Unit Type			MPE-1-W3-5-C-060-D3
Description	Unit Weight	lb	3,408
	Curb Weight	lb	269
	Outdoor Air Discharge		Side
	Outdoor Air Intake		End
	Exhaust Air Discharge		Side
	Return Air Intake		Side
Design Conditions	Elevation	ft	79
	Summer DB	F	94.9
	Summer WB	F	74.8
	Winter DB	F	10
Design Room Conditions	Winter DB/Summer DB	F	72 / 75
	Winter RH/Summer RH	%	0.35 / 0.5
Air Performance	Type		Supply / Exhaust
	Volume	CFM	1,500 / 1,500
	External SP	in. wg	0.5 / 0.5
	Total SP	in. wg	1.44 / 1.33
	RPM		1189 / 1201
	Operating Power	hp	0.55 hp / 0.56 hp
	Motor Size	hp	1 hp / 1 hp
	Size/Type	in.	PRM-450 / Plenum / PRM-450 / Plenum
Electrical / Motor Specifications	V/C/P		208/60/3
	Unit MCA	A	40.3
	Unit MOP	A	60
	Unit FLA	A	35.1
	Supply Motor	RPM	1150
	Supply Efficiency		SE
	Supply Housing		ODP
	Exhaust Motor	RPM	1150
	Exhaust Efficiency		SE
	Exhaust Housing		OP
	Fan Power (W/CFM)*		0.550
Air-Source Heat Pump Cooling	Cooling Type		AirSourceHeatPump
	Entering Dry-bulb/Wet-bulb	F	79.2 / 65.7
	Leaving Dry-bulb/Wet-bulb	F	50.5 / 50.5
	Airside Coil Total Capacity	MBH	65.5
	Airside Coil Sens. Capacity	MBH	45.2
	920 ISMRE2		8.5
Air-Source Heat Pump Heating	Primary Heating Type		AirSourceHeatPump
	Total Capacity	MBH	45.1
	EAT	F	58.4
	LAT	F	86.5
	Ambient Outdoor Air	F	10.0
	920 ISCOP2		3.91
Secondary Heating Specifications	Secondary Heating Type		IndirectGas
	Gas Type		Natural
	Input	MBH	100.0
	Output	MBH	81.0
	LAT (w/ASHP)	F	136.5
	LAT (w/o ASHP)	F	108.3
	Temp. Rise	F	50.0
	Furnace Control		16:1

PremiSys® **Model:** MPE-1-W3-5-C-060-D3 MITSUBISHI ELECTRIC COOLING & HEATING

Equipment Details: Air-Source Heat Pump

- Hermetic Scroll type compressors
- Compressors mounted in an isolated compartment to be serviceable without affecting airflow on neoprene vibration isolation to minimize vibration transmission and noise
- Electronic expansion valve
- Multiple outdoor fans with Lead ECM outdoor fan for modulating head pressure control
- Liquid-line filter drier
- High-pressure manual reset cutout
- Low-pressure auto-reset cutout
- Time delay relays for compressor protection
- Service/charging valves
- Moisture-indicating sight glass
- Direct-drive, statically and dynamically balanced outdoor fan(s)
- Unit cannot be mounted in an enclosed space.

Heat Pump Details			
Indoor Coil Specifications	Face Area	ft2	11.8
	Rows Deep		4
	Fins Per Inch		16
	Face Velocity	ft/min	121.01
	Coil SP	in. wg	0.077
	Refrigerant Type		R-454b
Compressor Specifications	Lead Compressor Type		InverterScroll
	Compressor Quantity		1
	Compressor 1 MRC	A	20.7
	Compressor 1 LRA	A	0
	Compressor 2 RLA	A	0
	Compressor 2 LRA	A	0
Outdoor Fan Specifications	Outdoor Fan Quantity		1
	Motor Size	hp	1
	Motor FLA	A	3.6

Cooling Performance			
Cooling Specifications	Cooling Type		AirSourceHeatPump
	Nominal Tonnage		5
	Total Capacity	MBH	65.46
	Sensible Capacity	MBH	45.18
	Entering Dry-bulb/Wet-bulb	F	79.2 / 65.7
	Leaving Dry-bulb/Wet-bulb	F	50.5 / 50.5
	920 ISMRE2		8.5
	HGRH Type		ModulatingHGRHPDx
	HGRH Capacity	MBH	52.4
	HGRH LAT	F	83.2

Primary Heating Performance			
Primary Heating Specifications	Primary Heating Type		AirSourceHeatPump
	Total Capacity	MBH	81
	Entering Dry-bulb	F	58.37927047180354
	Leaving Dry-bulb	F	
	Ambient Outdoor Air	F	10
	920 ISCOP2		3.91

PremiSys® **Model:** MPE-1-W3-5-C-060-D3 MITSUBISHI ELECTRIC COOLING & HEATING

Secondary Heating Equipment Details: Indirect Gas Heating

- Power Venting
- ETL listed to ANSI standard Z83.8 and CSA 2.6
- High Thermal Efficiency
- Direct Spark Ignition
- Stainless steel heat exchanger tubes
- 3/4" NPT Gas Connection - Qty 1
- At least 6 in. wg of natural gas pressure (11 in. wg for LP) is required at the units gas connection in order to achieve maximum performance

Secondary Heating Performance			
Secondary Heating Specifications	Secondary Heating Type		IndirectGas
	Gas Type		Natural
	Input	MBH	100.0
	Output	MBH	81.0
	LAT (w/ASHP)	F	136.5
	LAT (w/o ASHP)	F	108.3
	Temp. Rise	F	50.0
	Furnace Control		16:1

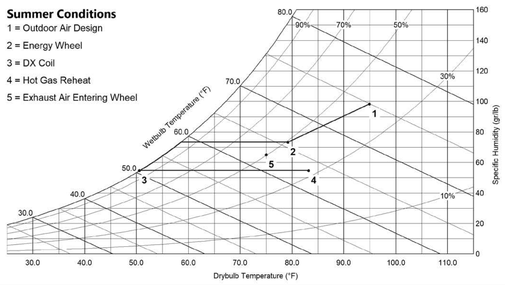
PremiSys® **Model:** MPE-1-W3-5-C-060-D3 MITSUBISHI ELECTRIC COOLING & HEATING

SUMMER PERFORMANCE			
Design Air Flow Conditions	Outdoor Air Volume	CFM	1,500
	Outdoor Air Wheel Enthalpy Recovery Ratio		77.26
	Exhaust Air Volume	CFM	1,500
	Exhaust Air Wheel Effectiveness		75.437

ENERGY WHEEL PERFORMANCE					
Outdoor Air					
Entering Air			Leaving Air		
Dry Bulb	F	94.9	Dry Bulb	F	79.2
Wet Bulb	F	74.8	Wet Bulb	F	65.7
Specific Humidity	gr/lb	98	Specific Humidity	gr/lb	73
Enthalpy	BTU/lb	38.3	Enthalpy	BTU/lb	30.5
Exhaust Air					
Leaving Air			Entering Air		
Dry Bulb	F	90.0	Dry Bulb	F	75.0
Wet Bulb	F	72.0	Relative Humidity	%	50
Specific Humidity	gr/lb	88	Specific Humidity	gr/lb	65
Enthalpy	BTU/lb	35.5	Enthalpy	BTU/lb	28.2

Summer Conditions

1 = Outdoor Air Design
2 = Energy Wheel
3 = DX Coil
4 = Hot Gas Reheat
5 = Exhaust Air Entering Wheel



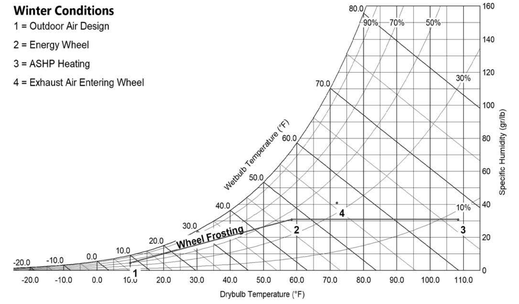
PremiSys® **Model:** MPE-1-W3-5-C-060-D3 MITSUBISHI ELECTRIC COOLING & HEATING

WINTER PERFORMANCE WO/PREHEATER			
Air-Source Heat Pump			
Design Air Flow Conditions	Outdoor Air Volume	CFM	1,500
	Outdoor Air Wheel Enthalpy Recovery Ratio		76.29
	Exhaust Air Volume	CFM	1,500
	Exhaust Air Wheel Effectiveness		75.62

ENERGY WHEEL PERFORMANCE					
Outdoor Air					
Entering Air			Leaving Air		
Dry Bulb	F	10.0	Dry Bulb	F	58.4
Wet Bulb	F	7.5	Wet Bulb	F	47.3
Specific Humidity	gr/lb	4.6	Specific Humidity	gr/lb	30.9
Enthalpy	BTU/lb	3.1	Enthalpy	BTU/lb	18.8
Exhaust Air					
Leaving Air			Entering Air		
Dry Bulb	F	24.1	Dry Bulb	F	72.0
Wet Bulb	F	22.4	Relative Humidity	%	35
Specific Humidity	gr/lb	14.4	Specific Humidity	gr/lb	41.0
Enthalpy	BTU/lb	8.0	Enthalpy	BTU/lb	23.7

Winter Conditions

1 = Outdoor Air Design
2 = Energy Wheel
3 = ASHP Heating
4 = Exhaust Air Entering Wheel



MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

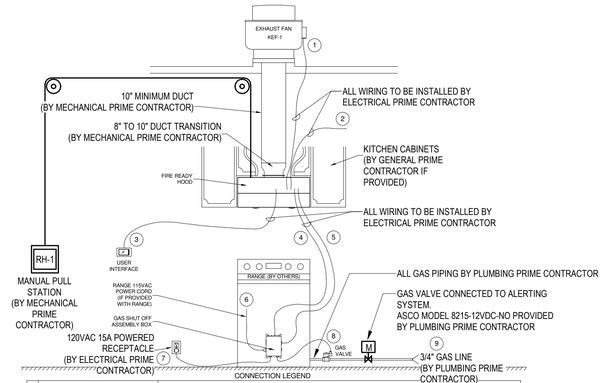
SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL SCHEDULES AND DETAILS

SHEET
M-602

4/17/2026 1:41:14 PM

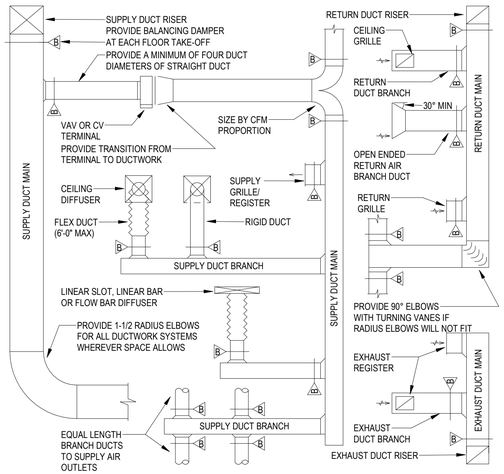
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



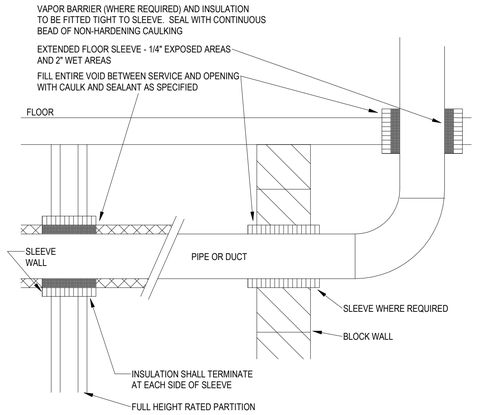
ID	ITEM	ITEM DETAILS
1	FAN	FIELD TO CONNECT FAN KEF-1 TO QC2, PROVIDED WITH 0-10VDC SPEED REFERENCE AND 115VAC RUN COMMAND.
2	HOOD POWER	FIELD TO PROVIDE 115VAC POWER FROM 15A BREAKER TO TERMINAL BLOCKS H1 AND N1 INSIDE HOOD (GROUND TO GROUNDING TERMINAL).
3	SHIP LOOSE USER INTERFACE	8.5 FT PLUG AN PLAY CABLE WITH LIGHT BLUE LABEL COILED UP AND ATTACHED TO HOOD. FIELD TO CONNECT PLUG TO BACK OF USER INTERFACE INSIDE INTERFACE J-BOX.
4	GAS/ELECTRIC DISCONNECT CABLE 1	10 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO 9PIN CONNECTION AT HOOD. FIELD TO PLUG THIS INTO GAS/ELECTRIC SHUT OFF ASSEMBLY BOX.
5	GAS/ELECTRIC DISCONNECT CABLE 2	10 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO 4PIN CONNECTION AT HOOD. FIELD TO PLUG THIS INTO GAS/ELECTRIC SHUT OFF ASSEMBLY BOX.
6	RANGE POWER CORD	PLUG RANGE POWER CORD (IF PROVIDED WITH RANGE) INTO GAS SHUT OFF ASSEMBLY BOX.
7	SHUT OFF ASSEMBLY BOX POWER	PLUG GAS SHUT OFF ASSEMBLY BOX POWER CORD INTO NEARBY 115VAC RECEPTACLE.
8	SHUT OFF ASSEMBLY VALVE POWER	GAS VALVE TO CONNECT TO QUICK CONNECTOR, CONNECTS 5FT GAS VALVE POWER CORD TO 1.5FT CABLE ON GAS VALVE.
9	GAS LINE	PIPE GAS LINE INTO GAS VALVE INLET, THEN OUT OF GAS VALVE OUTLET TO RANGE.

1 M-603 KITCHEN HOOD/KEF-1 INSTALLATION MECHANICAL DETAIL
NOT TO SCALE

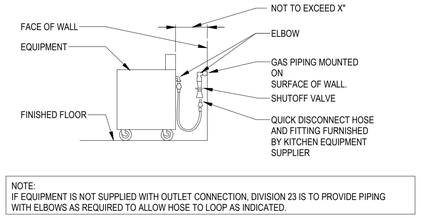
NOTES:
1. REFER TO HVAC FLOOR PLANS FOR DUCT SIZES
2. REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES
3. PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN INLET
4. ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED
5. FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS
6. PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT
7. INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST REGISTERS



5 M-603 DUCTWORK INSTALLATION DIAGRAM
NOT TO SCALE

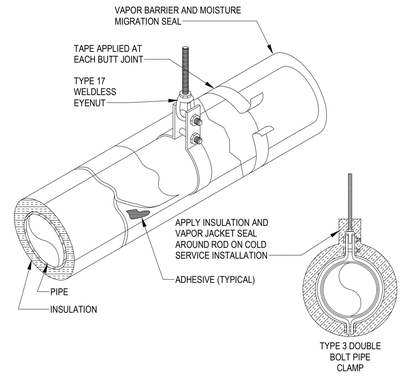


2 M-603 DUCT OR PIPE WALL AND FLOOR PENETRATION DETAIL
NOT TO SCALE

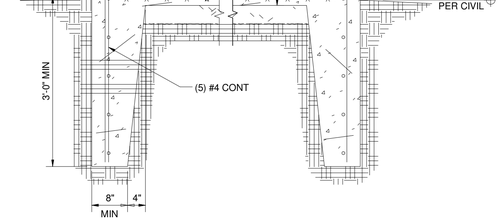


NOTE:
IF EQUIPMENT IS NOT SUPPLIED WITH OUTLET CONNECTION, DIVISION 23 IS TO PROVIDE PIPING WITH ELBOWS AS REQUIRED TO ALLOW HOSE TO LOOP AS INDICATED.

3 M-603 EQUIPMENT GAS PIPING CONNECTION
NOT TO SCALE

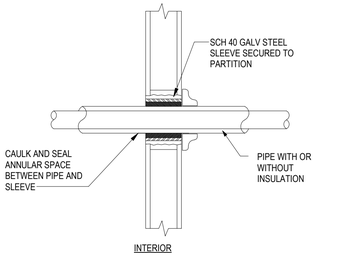


4 M-603 PIPE HANGER, INSULATION AND VAPOR JACKET
NOT TO SCALE



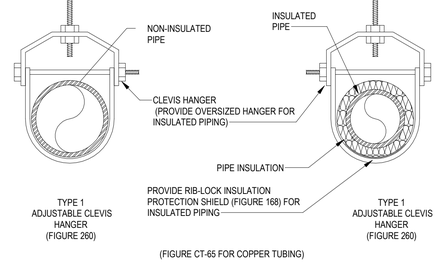
NOTES:
1. TYPICAL FOR NON-INSULATED PIPING AND CONDUIT.
2. TYPICAL FOR MASONRY OR CONCRETE WALL.
3. FOR WALL PENETRATION WITH FIRE RATINGS GREATER THAN (1) HOUR, USE THUNDERLINE "PYRO-PAC" SEALS OR EQUAL.
4. WHERE PIPING EXPOSED AT FINISHED WALL, FLUSH MOUNT SLEEVE, AND PROVIDE AN ESCUTCHEON PLATE.

6 M-603 PIPE PENETRATION THRU EXTERIOR WALLS
NOT TO SCALE



NOTES:
1. TYPICAL FOR NON-INSULATED PIPE AND CONDUIT.
2. ALL CAULKING AND SEALANT SHALL BE FIRE RATED (SEE SPECIFICATIONS).
3. WHERE PIPING IS EXPOSED AT FINISHED WALL, FLUSH MOUNT SLEEVE AND PROVIDE AN ESCUTCHEON PLATE.

7 M-603 PIPE PENETRATION THRU INTERIOR WALLS
NOT TO SCALE



(FIGURE CT-65 FOR COPPER TUBING)

NOTE:
FIGURE NUMBERS ARE TYPICAL TO GRINNELL SUPPORT NUMBERS.

8 M-603 SINGLE PIPE CLEVIS HANGER
NOT TO SCALE

9 M-603 MECHANICAL EQUIPMENT PAD DETAIL
NOT TO SCALE

Grilles, Registers & Diffusers Schedule

ID Type	Description	Manufacturer	Model	Qty	Type	Material	Finish	Border Application	Face or Module Size	Notes
CD1	Ceiling Diffuser	Titus	PAS-AA	22	Perforated Face	Steel	White Enamel	Lay-In Full Face	24x24	
CD2	Ceiling Diffuser	Titus	PAS-AA	8	Perforated Face	Steel	White Enamel	Lay-In Full Face	12x12	
CR1	Ceiling Return	Titus	PAR-AA	22	Perforated Return	Aluminum	White Enamel	Lay-In Full Face	24x24	
CR2	Ceiling Return	Titus	PAR-AA	8	Perforated Return	Aluminum	White Enamel	Lay-In Full Face	12x12	

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND SCOTT A. FRENCK No. 47259 PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

MECHANICAL SCHEDULES AND DETAILS

SHEET
M-603

4/17/2026 1:41:15 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet
- Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room / Room Name / Number
- Area Being Demolished
- Area Not In Contract

Abbreviations

Ø	ROUND
ABV	ABOVE
AC	AIR CONDITIONING
AD	AREA DRAIN
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEAN OUT
CW	COLD WATER
D	DEGREE
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DW	DISTILLED WATER
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
E/A	EXHAUST AIR
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOOR
FO	FUEL OIL
FOV	FUEL OIL VENT
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FOOT/FEET
FTR	FIN TUBE RADIATION
GAL	GALLON
GF	GAS-FIRED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIB
HP	HORSE POWER
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HYD	HYDRANT
ID	INDIRECT
IN	INCH
INV	INVERT
LB	POUND
LB/HR	POUNDS PER HOUR
LAT	LEAVING AIR TEMPERATURE
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
M/A	MIXED AIR
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MCF	ONE THOUSAND CUBIC FEET
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
MU/A	MAKE-UP/AIR
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OXYGEN
O/A	OUTSIDE AIR
ORD	OVERFLOW ROOF DRAIN
PD	PRESSURE DROP
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PWR	POWER
R	DUCT RISER
R/A	RETURN AIR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REC	RECESSED
RED	REDUCER
RH	RELATIVE HUMIDITY
RL/A	RELIEF AIR
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
SF	SQUARE FOOT
S/A	SUPPLY AIR
SAN	SANITARY
SF	SQUARE FOOT
SD	SMOKE DAMPER
SM	SURFACE MOUNT
SP	STANDPIPE
SP	STATIC PRESSURE
STM	STEAM
T	THERMOSTAT
TD	TEMPERATURE DROP
TDR	TRENCH DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VAC	VACUUM
V	VENT
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
VTR	VENT THROUGH ROOF
W	WASTE
WB	WET BULB
WCO	WALL CLEAN OUT
WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Plumbing Symbols

- 2" — Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- CW — Domestic Cold-Water
- NPW — Non-Potable Water
- S-CW — Soft Cold-Water
- F-CW — Filtered Cold-Water
- RO — Reverse Osmosis Water
- HW — Domestic Hot-Water
- HW 140° — Domestic Hot-Water 140°
- HW-R — Hot-Water Recirculation
- HW-R 140° — Hot-Water Recirculation 140°
- SS — Sanitary Drain
- V — Sanitary Vent
- WV — Sanitary Wet Vent
- CWV — Combination DWV
- CD — Condensate Drain
- ID — Indirect Drain
- GW — Grease Waste
- GV — Grease Vent
- OW — Oil Waste
- OV — Oil Vent
- PD — Pump Discharge
- SHWR — Solar Water Return
- SHWS — Solar Water Supply
- SD — Storm Drain
- OSD — Storm Overflow
- CA — Compressed Air
- G — Natural Gas
- LP — Liquid Propane
- Pipe Rise / Drop

Pipe Accessory Notes

- 4" FCO — Cleanout
- 2" BACKWATER — Swing Check
- 2" CHECK — Check Valve
- 2" CHECK — Alternate Check Valve
- 2" BALANCE — Balancing Valve
- 2" CIRC — Circuit Setter
- 2" GATE — Gate Valve
- 2" QUICK — Quick Opening Valve
- 2" S/O — Ball Valve
- 2" STRAIN — Fluid Strainer
- S — 1" GAS-CNTRL — Emergency Gas Shutoff
- 1" PLUG — Plug Valve
- 1" GAS COCK — Gas Shutoff Cock
- 1" REG — Gas Regulator
- T/P — 1" T/V — Thermostatic Valve
- TP — PRIMER — Trap Primer
- M — 2" M-CNTRL — Elec. Control Valve
- T/P — TMV-XT/P — Mixing Valve
- EM — TMVEM — Emergency Mixer
- 2" PRV — Pressure Reducing Valve
- W — 2" METER — Water Meter
- IR — 1 1/2" METER — Irrigation Meter
- Double Check Valve
- Reduced Pressure Zone

Plumbing Fixture Notes

- Floor Drain — Design Size
- 0" FD-1 / 2 DFU — Identity Type / Drainage Fixture Units
- 2" FD-3 — Floor Drain w/ Deep Seal Trap
- 2" FD-3P — Floor Drain w/ Trap Primer "P" Indicates Primer Connection
- 2" FD-7 — Floor Drain w/ Integral Cleanout
- 3" AD-1 — Area Drain (No Trap)
- 6" DD-1 — Deck Drain
- 3" HD-1 — Hub Drain (Funnel Type)
- 3" FS-4 — Floor Sink
- 8" SD-12 — Roof Drain
- 6" SD-1 / 2000 SF — Combination Drain / Rainfall Surface Area

Project Requirements

A. REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

C. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.

D. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

E. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

F. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

G. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

H. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

I. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

J. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

K. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

L. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

M. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

N. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

O. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

P. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

Q. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

R. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

S. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

T. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

U. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

V. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

W. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

Plumbing General Notes

A. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.

B. PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE.

C. PITCH UNDERFLOOR STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.

D. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

E. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION, AT THE BASE OF ALL PLUMBING RISERS.

Plumbing Sheet Index

P-000	PLUMBING TITLE SHEET
PD111	FIRST FLOOR PLUMBING DEMOLITION PLAN - SOUTH
PD112	FIRST FLOOR PLUMBING DEMOLITION PLAN - NORTH
PD113	FIRST FLOOR PLUMBING DEMOLITION PLAN - EAST
P-111	FIRST FLOOR PLUMBING NEW WORK PLAN - SOUTH
P-112	FIRST FLOOR PLUMBING NEW WORK PLAN - NORTH
P-113	FIRST FLOOR PLUMBING NEW WORK PLAN - EAST
P-401	ENLARGED PLUMBING PLANS
P-601	PLUMBING SCHEDULES AND DETAILS

MW STUDIOS

ARCHITECTURE + MASTER PLANNING

10839 PHILADELPHIA RD
WHITE MARSH, MD 21162

410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING / DESIGN / CONSULTING

Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com

Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

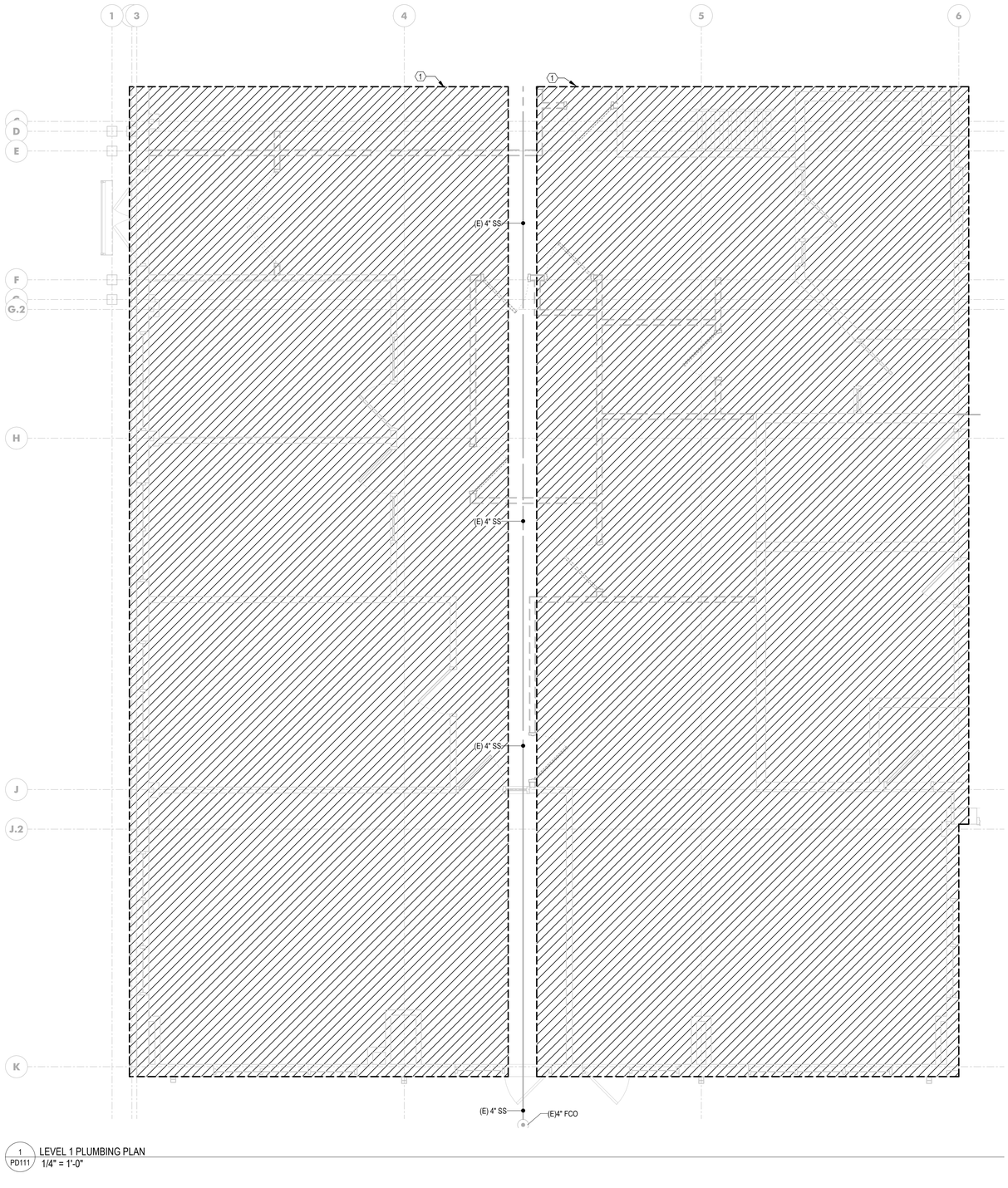
SHEET REVISION SCHEDULE:
No. DATE

PLUMBING TITLE SHEET

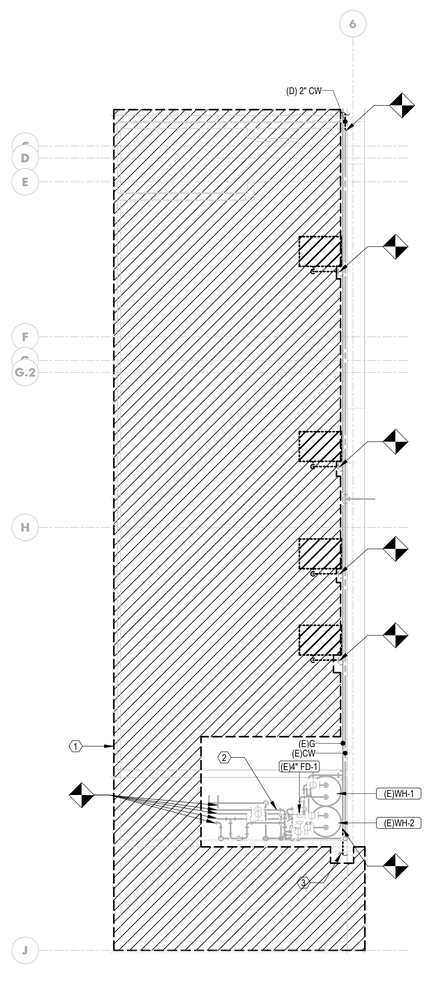
SHEET
P-000

4/17/2026 1:41:16 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 PD111 LEVEL 1 PLUMBING PLAN
1/4" = 1'-0"



2 PD111 LEVEL 2 PLUMBING PLAN
1/4" = 1'-0"

KEYNOTES

1 (E) NATURAL GAS PIPING MAIN TO REMAIN AS EXISTING IN MECHANICAL MEZZANINE. NATURAL GAS PIPE TAPS TO MECHANICAL EQUIPMENT ON MEZZANINE TO BE DEMOLISHED BACK TO MAIN AND CAPPED OFF. NATURAL GAS PIPING TO BUILDING AND WATER HEATERS TO REMAIN. ALL OTHER MECHANICAL PIPING IN HATCH AREA TO BE DEMOLISHED AND ALL PIPED BACK TO MAINS

2 EXISTING WATER HEATER AND ASSOCIATED PIPING TO REMAIN

3 (E) GAS PIPING IN REST OF BUILDING TO BE DEMOLISHED BACK TO MAIN ON MEZZANINE AND VALVED OFF. GAS PIPING IN APPARATUS BAY TO BE LEFT AS EXISTING PIPING. CONTRACTOR TO VERIFY ALL ROUTING IN FIELD AND COORDINATE ALL WORK WITH OTHER DISCIPLINES AS REQUIRED.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · NO. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

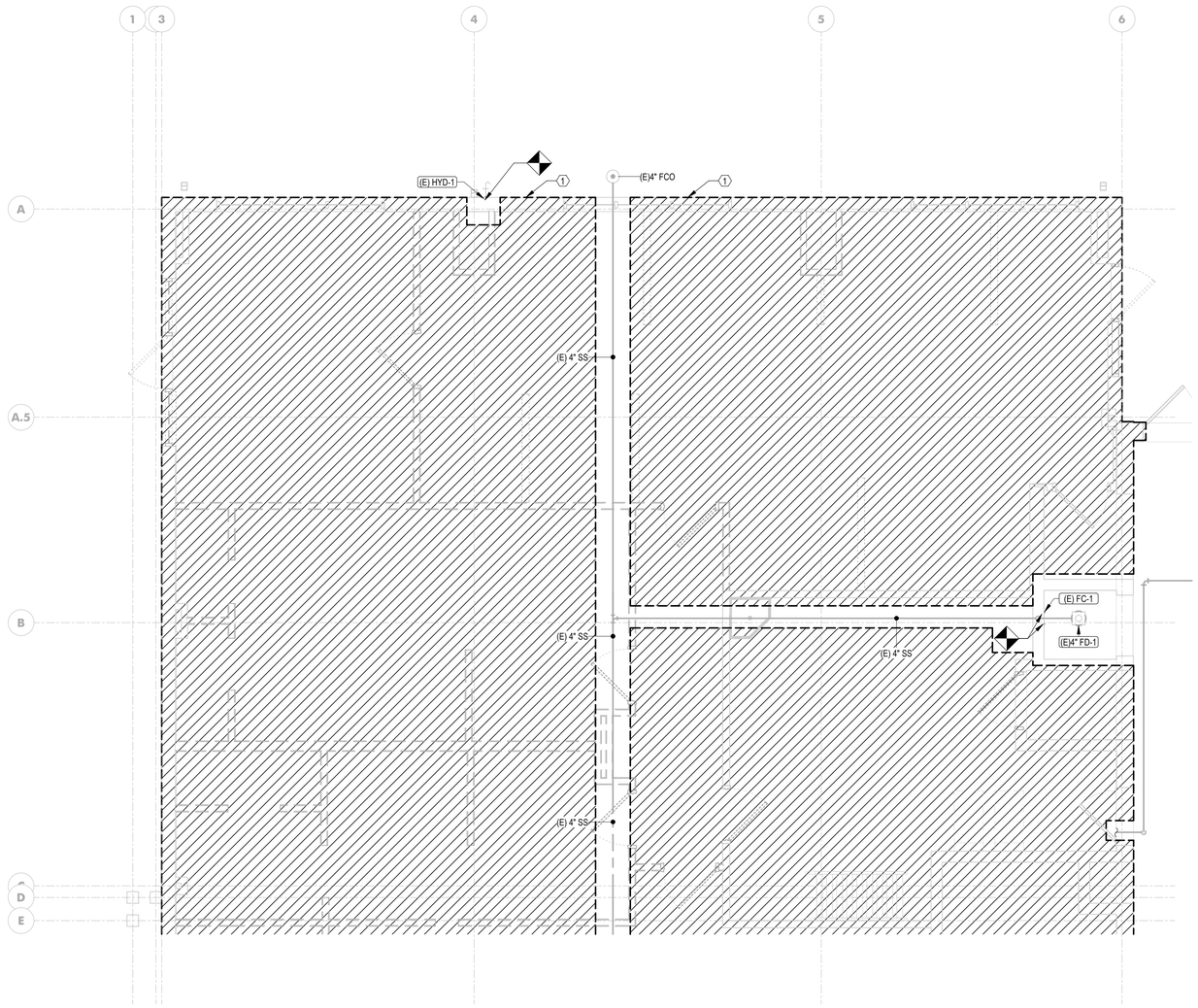
SHEET REVISION SCHEDULE:
No. DATE

FIRST FLOOR PLUMBING DEMOLITION PLAN - SOUTH

SHEET
PD111

4/17/2026 1:41:17 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 PD112 LEVEL 1 PLUMBING PLAN
1/4" = 1'-0"

KEYNOTES

1 ALL PIPIING IN HATCH AREA TO BE DEMOLISHED AND ALL PIPED BACK TO MAINS

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND
SCOTT A. FRENCK
No. 47259
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

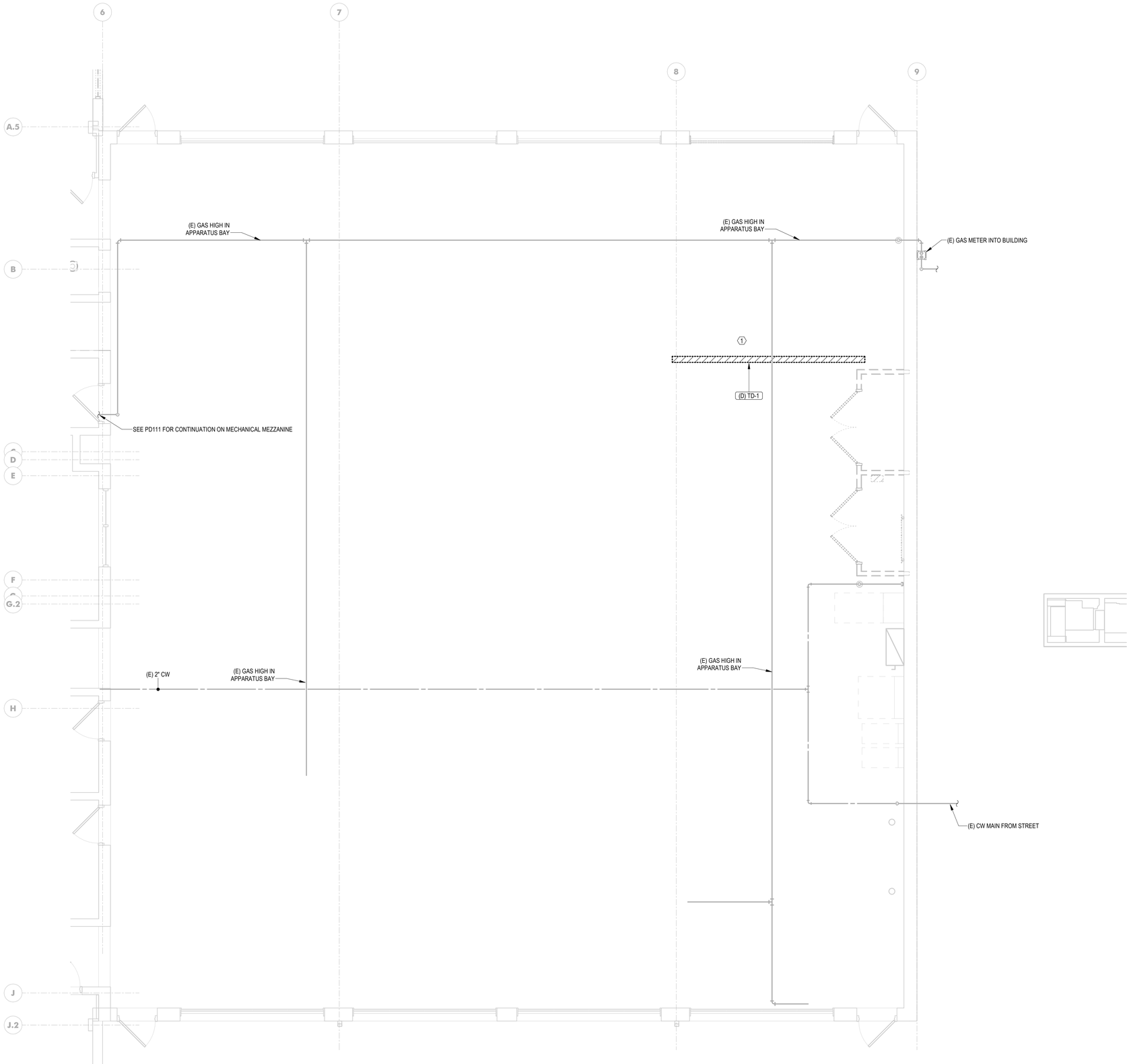
FIRST FLOOR PLUMBING DEMOLITION PLAN - NORTH

SHEET

PD112

4/17/2026 1:41:17 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 PD113 LEVEL 1 PLUMBING PLAN
1/4" = 1'-0"

KEYNOTES

1 EXISTING TRENCH DRAIN IN APPARATUS BAY TO BE DEMOLISHED, WITH SANITARY LINE TO BE CAPPED AND TRENCH TO BE INFILLED TO ACCOMODATE PPE STORAGE ROOM TO BE BUILT IN NEW WORK PORTION OF PROJECT. CONTRACTOR TO VERIFY SANITARY LOCATION IN FIELD AND COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND
SCOTT A. FRENCK
No. 47259
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

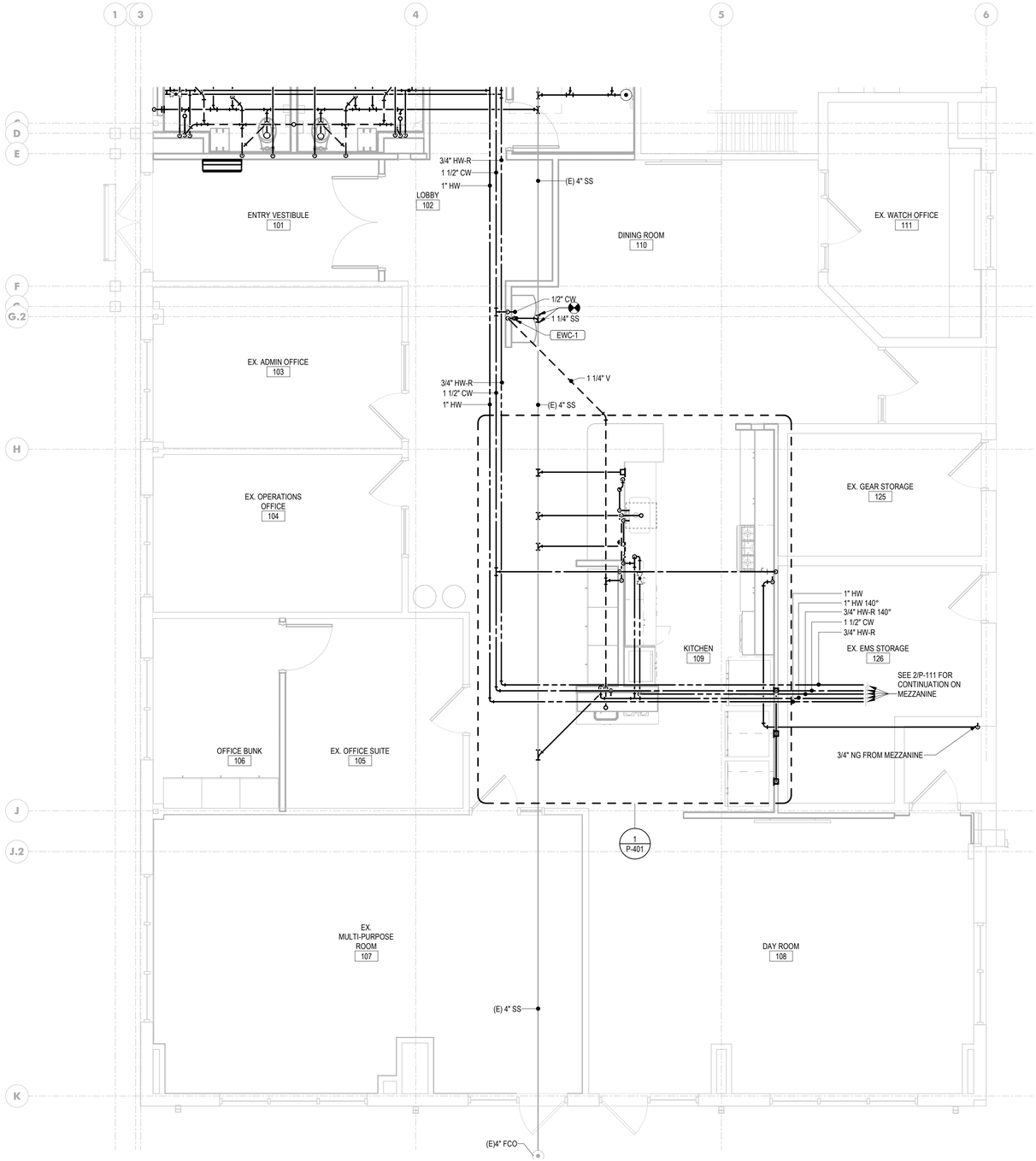
SHEET REVISION SCHEDULE:
No. DATE

FIRST FLOOR PLUMBING DEMOLITION PLAN - EAST

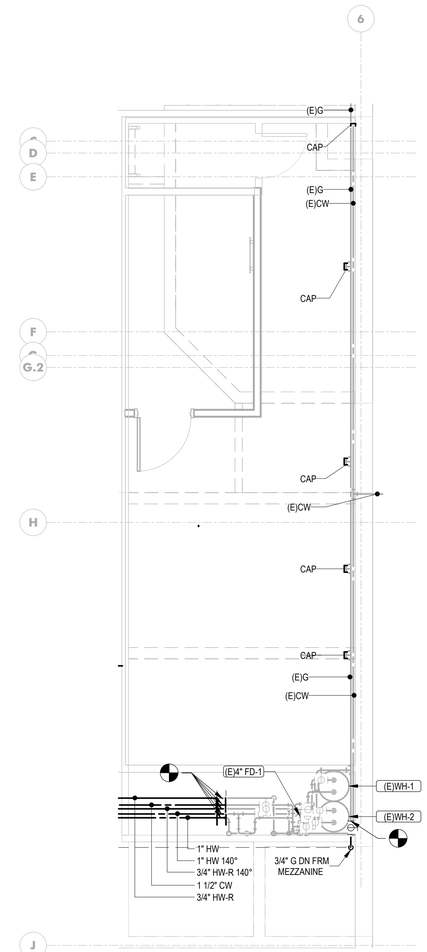
SHEET
PD113

4/17/2026 1:41:18 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 P-111 LEVEL 1 PLUMBING PLAN
1/4" = 1'-0"



2 P-111 LEVEL 2 PLUMBING PLAN
1/4" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

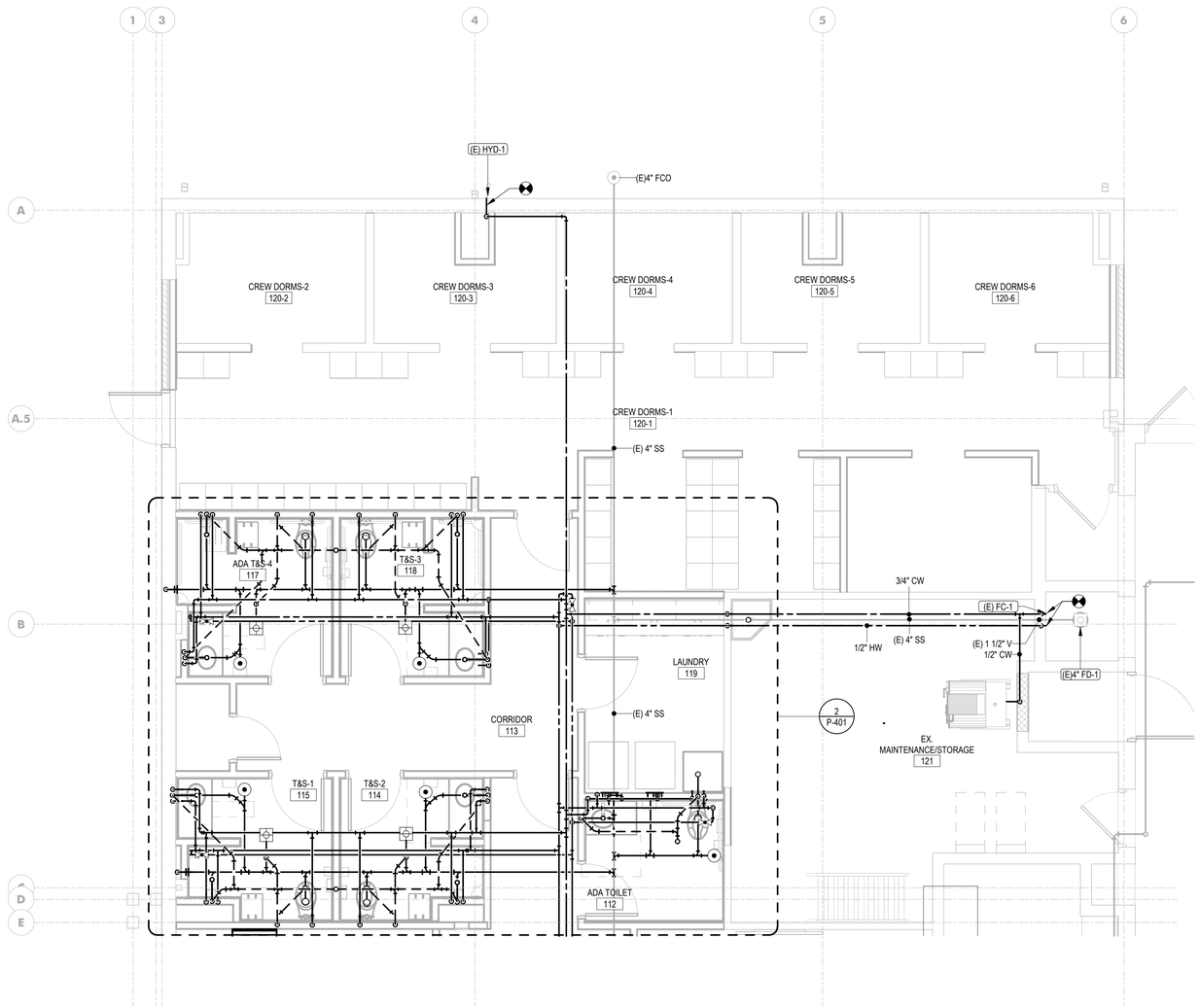
FIRST FLOOR PLUMBING NEW WORK PLAN - SOUTH

SHEET

P-111

4/17/2026 1:41:20 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 P-112 LEVEL 1 PLUMBING PLAN
1/4" = 1'-0"

STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND
SCOTT A. FRENCK
No. 47259
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

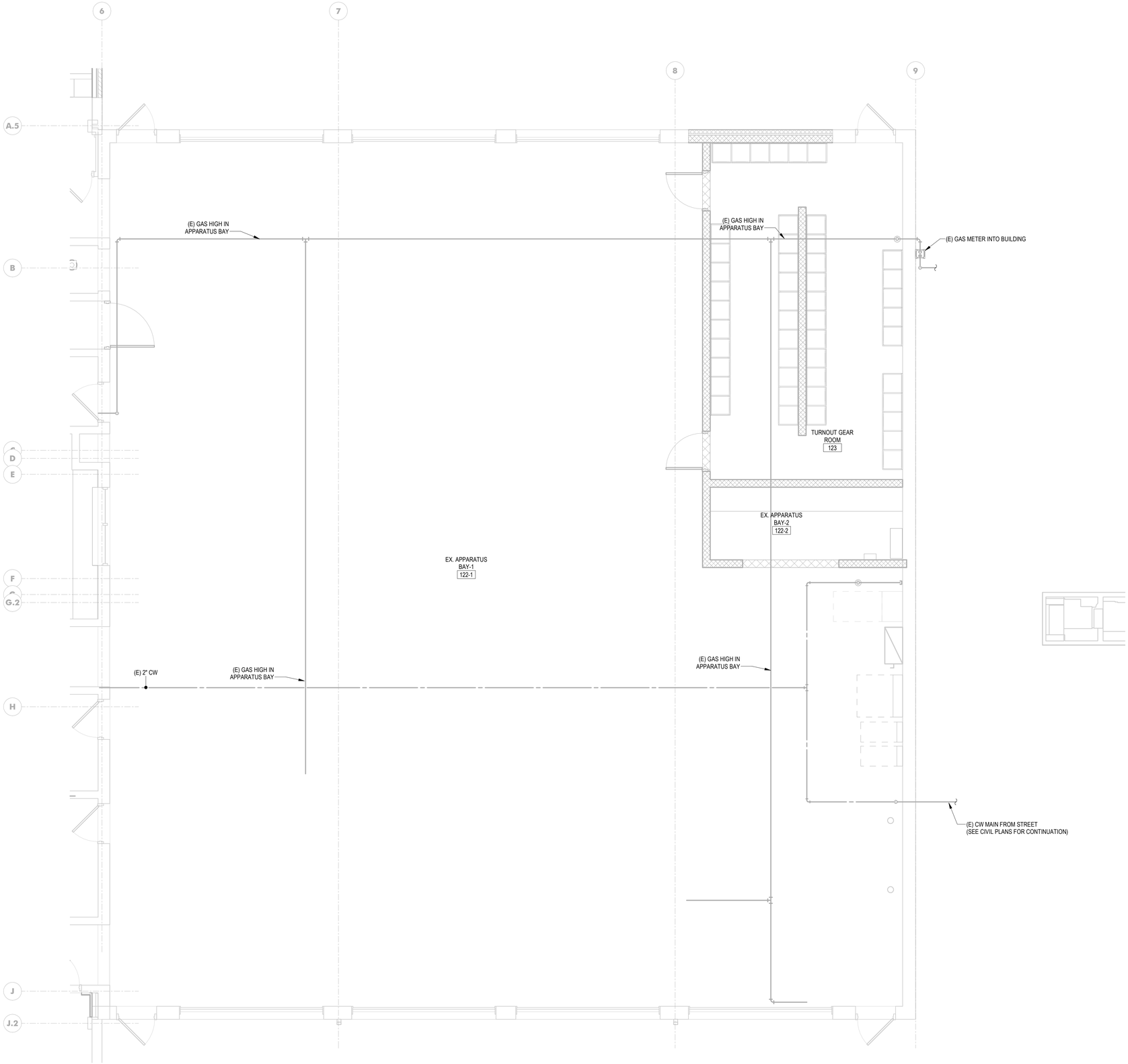
FIRST FLOOR PLUMBING NEW WORK PLAN - NORTH

SHEET

P-112

4/17/2026 1:41:23 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 / P-113 LEVEL 1 PLUMBING PLAN
1/4" = 1'-0"

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

FIRST FLOOR PLUMBING NEW WORK PLAN - EAST

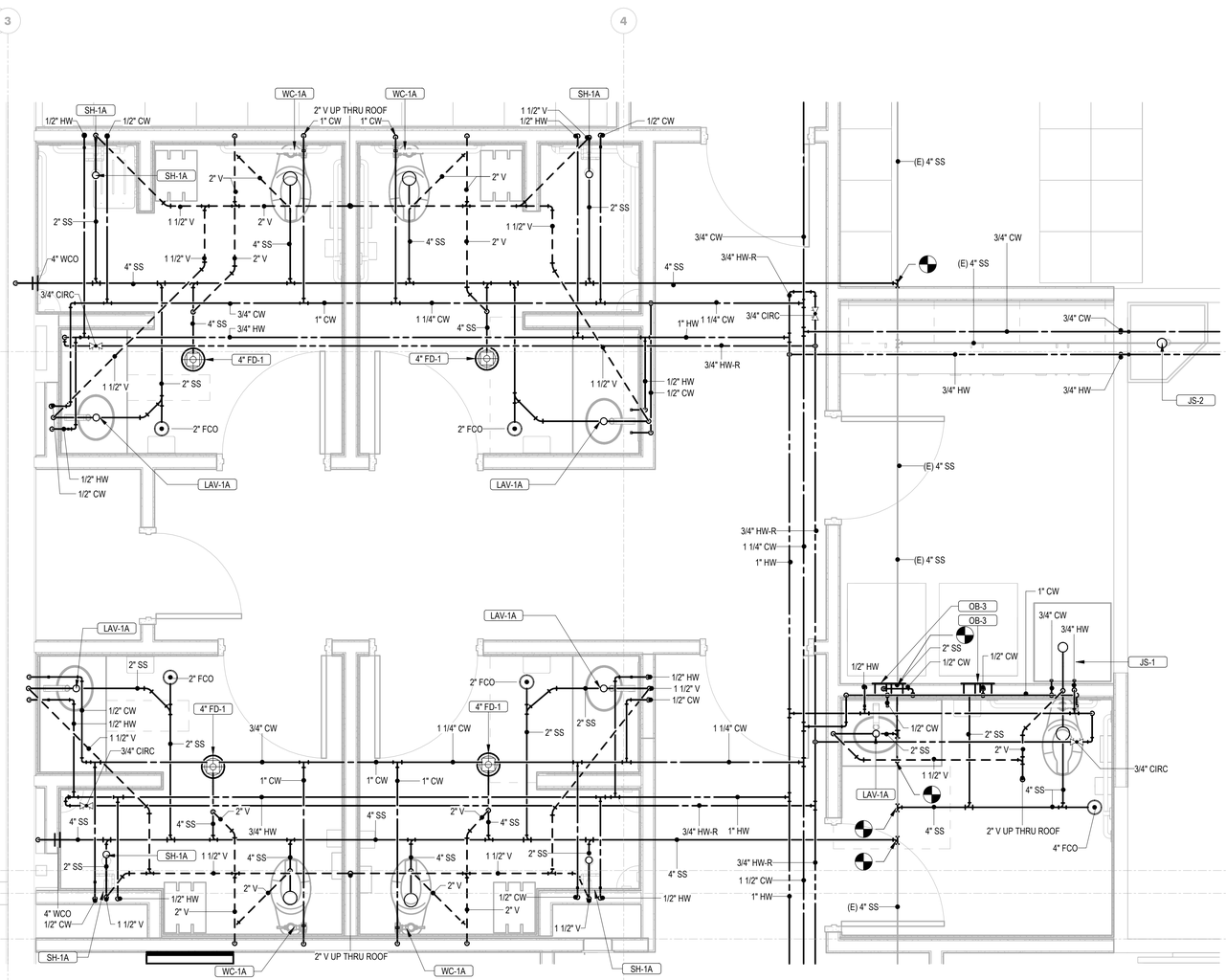
SHEET

P-113

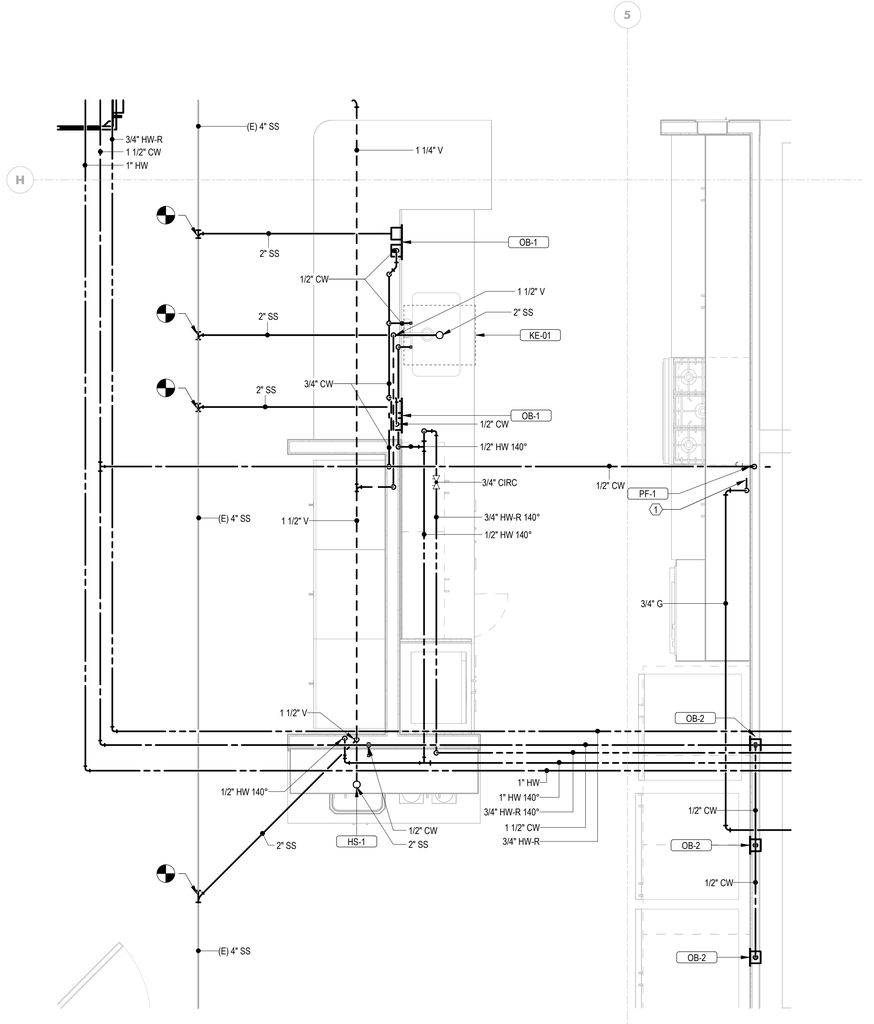
4/17/2026 1:41:24 PM

KEYNOTES

1 CONTRACTOR TO RUN NEW NATURAL GAS LINE TO GAS FIRED STOVE IN KITCHEN AND CONNECT WITH GAS PRESSURE REGULATOR AS PER STOVE MANUFACTURERS RECOMMENDATIONS.



2 P-401 Plumbing Floor Plan-01 - NORTH - Callout 1
1/2" = 1'-0"



1 P-401 Plumbing Floor Plan-01 - SOUTH - Callout 1
1/2" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

ENLARGED PLUMBING PLANS

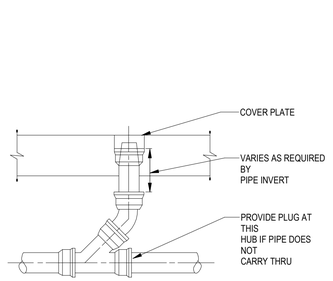
SHEET
P-401

4/17/2026 1:41:26 PM

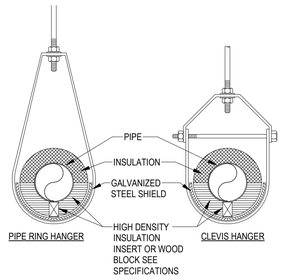
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

Plumbing Fixture Schedule

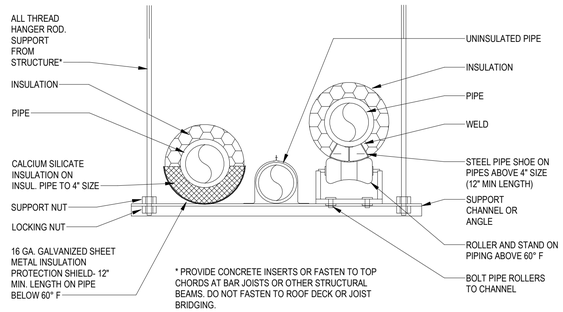
Type Identity	Description	Manufacturer	Model	Qty	Product Type	Installation Type	ADA	Material Description	Finish	Trim		Domestic Connections			Product Specification	Notes
										Manufacturer M/N	Type	Cold Water	Hot Water	Piping Size(s)		
EWC-1	Water Cooler	Elkay	EZSTL8WSSK	1	Bottle Filling Station - Dual Height	Wall Hung	No	Galvanized Steel	Stainless Steel			Yes	No	1/2"	Single Level Wall Hung Water Cooler With Bottle Filling Station. The Unit Shall Be Complete With Cabinet, Mounting Frame, Self Closing Easy Touch Side And Front Pushbar Controls, Flexiguard Safety Bubbler, Refrigerating System, Air Cooled, 120 Volt, 60 Cycle, Single Phase Power Connection, Fully Automatic, Complete And Ready To Operate.	
FD-1	Floor Drain	Watts	FD-100-B	4	Round Heavy Duty Strainer			Cast Iron							Epoxy Coated Cast Iron Floor Drain With Anchor Flange, Reversible Clamping Collar With Primary & Secondary Weepholes, Adjustable Heavy Duty Round Heel Proof Nickel Bronze Strainer, And No Hub Outlet.	
HS-1	Hand Sink	Elkay	ELUHAD161650	1	Hand Sink	Floor Set	No	Stainless Steel	Stainless Steel	Chicago Faucets / 895-317GN2FCAB		Yes	Yes	1/2"	Lustertone® Classic Stainless Steel 18-1/2" x 18-1/2" x 4-7/8" Single Bowl Undermount ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads. Faucet to be Gooseneck Faucet on 4" centers with wristblade handles.	
JS-1	Sink	Elkay	SS81242	1	Floor Mount Shop Sink	Floor Set	No	304 Stainless Steel		Chicago Faucets / 897-Cp	Manual	Yes	Yes	3/4"	Service Basin, With Chrome Plated 3" Drain And Cast Iron Trap. Faucet Shall Include Pail Hook And Atmospheric Vacuum Breaker Spout. Furnish 5'-0" Length Of 5-Ply Garden Hose And Fittings.	
JS-2	Sink	FIAT	TSBC1610	1	Floor Mount Shop Sink	Floor Set	No	Precast Terrazzo		Chicago Faucets / 897-Cp	Manual	Yes	Yes	3/4"	Service Basin With Cap On One Side, With Chrome Plated 3" Drain And Cast Iron Trap. Faucet Shall Include Pail Hook And Atmospheric Vacuum Breaker Spout. Furnish 5'-0" Length Of 5-Ply Garden Hose And Fittings.	
KE-01	Kitchen Sink	Elkay	ELUHAD281650	1	1-Compartment		No	Stainless Steel	Stainless Steel	Chicago Faucets / 895-317GN2FCAB		Yes	Yes	1/2"	Lustertone® Classic Stainless Steel, 30-1/2" x 18-1/2" x 4-7/8" Single Bowl Undermount ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads. Faucet to be Gooseneck Faucet on 4" centers with wristblade handles.	
LAV-1A	Lavatory	American Standard	Aqualyn	5	Counter Mount ADA	Counter Set	Yes	White Vitreous China	White	Chicago Faucets / 116.606.AB.1T	Metered	Yes	Yes	1/2"	Countertop Lavatory, Self-Rimming, Faucet Holes On 4" Centers. Deck-Mounted Faucet With Battery Powered Sensor With Vandal Resistant Spray, External Asse 1070 Compliant Thermostatic Mixing Valve, Grid Drain, Loose Key Angle Stops And Supplies. Mount At Ada Compliant Height. Insulate Water And Waste To Meet Ada Requirements Using Ada Insulation Kit.	
OB-1	Outlet Box	IPS Corporation	DW1200HA	2	Dishwasher	Recessed		ABS Plastic	White			No	No	1/2"	White Powder Coated Ice Maker Outlet Box w/ Lead free hammer arrestor valves. brass quarter turn hammer arrestor valve, 3/8" sweat conx.	
OB-2	Outlet Box	IPS Corporation	MIB1HAAB	3	Ice Maker	Recessed		ABS Plastic	White			Yes	No	1/2"	White Powder Coated Ice Maker Outlet Box w/ Lead free hammer arrestor valves. brass quarter turn hammer arrestor valve, 1/2" sweat conx.	
OB-3	Outlet Box	IPS Corporation	W4700	2	Washing Machine	Recessed		ABS Plastic	White			Yes	No	1/2"	White Powder Coated Ice Maker Outlet Box w/ Lead free hammer arrestor valves. brass quarter turn hammer arrestor valve, 1/2" sweat conx.	
PF-1	Pot Filler	Kohler	K-35745	1	Pot Filler Faucet	Wall Mount	No	Polish Chrom	Chrome			Yes	No	1/2"	Wall Mounted Pot Filler	
SH-1A	Shower Stall - ADA	By Others	By Others	4	By Others	Floor Set	No			Symmons / C-96-500-B30-V		Yes	Yes	1/2"	The Individual Shower Stall Is Specified In Another Division. Provide A Shower Drain As Specified In "Soil, Waste And Vent Piping Systems." Shower System With Asse 1016 Compliant Type "T/P" Thermostatic/Pressure Balancing Combination Valve With Adjustable Stop Screw To Limit Handle Turn. Concealed 3-Port Diverter Valve With Lever Handle With Arm And Flange, Integral Stops, And In-Line Vacuum Breaker. Hand Shower System With Standard Hand Shower, 60" Flexible Metal Hose, And 48" Slide Bar For Hand Shower Mounting. Provide Manufacturer'S Flow Rate Restrictor On Showerhead.	
WC-1A	Water Closet	American Standard	Madera	5	Flush Valve ADA	Floor Set	Yes	White Vitreous China	White	Sloan / 8111-1.28	Flushometer	Yes	No	1"	Elongated Floor Mounted Water Closet, 1-1/2" Top Spud, With Church 295Ct Elongated Open Front Seat. Solar Powered Sensor Activated Flushometer. Install At Ada Compliant Height.	



1 P-601 CLEAN OUT AND PLUGGED RISER
NOT TO SCALE



2 P-601 INSULATED PIPE AT HANGER DETAIL
NOT TO SCALE



3 P-601 TRAPEZE PIPE HANGER DETAIL
NOT TO SCALE

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:
STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

PLUMBING SCHEDULES AND DETAILS

SHEET
P-601

4/17/2026 1:41:27 PM

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room / 1 — Room Name / Number
- Area Being Demolished
- Area Not In Contract

Fire Protection Symbols

- 2" — Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- FP-W — Wet Fire Sprinkler
- FP-D — Dry Fire Sprinkler
- FP-PA — Preaction Fire Sprinkler
- F/W — Fire & Water Service
- FP-O — Fire Sprinkler (Other)
- Upright Sprinkler
- Pendent Sprinkler
- Recessed Sprinkler
- Concealed Head
- D — Upright Sprinkler
- Sidewall Sprinkler
- Extended Coverage Sprinkler
- Standpipe Valve
- 48"x18" S/A — Obstruction From Ductwork 48" and Greater
- Check Valve
- Alarm Check Valve
- Tamper Detection Valve
- Dry Pipe Valve
- Indicating Butterfly Valve
- Post Indicator Valve
- Valve Nonrising Stem
- OS&Y Valve
- Preaction Valve
- Deluge Valve
- Thrust Block
- Pipe Anchor
- Freestanding Siamese Fire Department Connection
- Siamese Fire Department Connection
- Single Fire Department Connection
- Riser Assembly
- Double Check (OS&Y)
- Double Check (Butterfly with Tamper)
- Reduced Pressure Zone
- X — Equipment Identity

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
E/A	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SAN	SANITARY
FO	FUEL OIL	SF	SQUARE FOOT
FOV	FUEL OIL VENT	SD	SMOKE DAMPER
FOR	FUEL OIL RETURN	SM	SURFACE MOUNT
FOS	FUEL OIL SUPPLY	SP	STANDPIPE
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT/FEET	T	THERMOSTAT
GAL	GALLON	TD	TEMPERATURE DROP
GF	GAS-FIRED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
HB	HOSE BIB	V	VENT
HP	HORSE POWER	VENT	VENTILATION
HTR	HEATER	W	WASTE
HYD	HYDRANT	WH	WALL HYDRANT
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Fire Protection General Notes

A. PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.

B. THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.

C. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.

D. PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.

E. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.

F. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.

G. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.

H. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.

I. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

J. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

K. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.

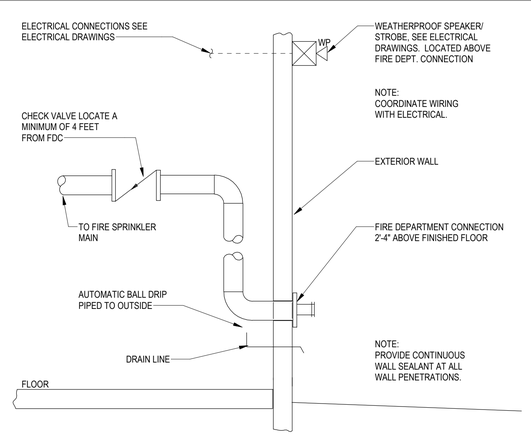
L. AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.

M. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

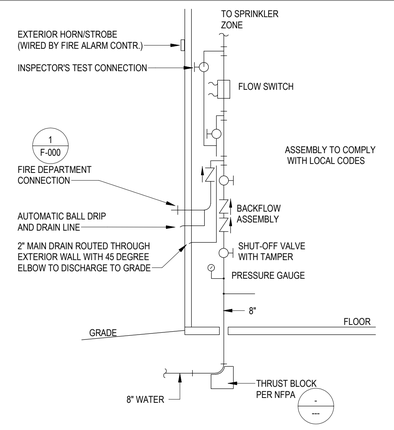
N. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.

Fire Protection Sheet Index

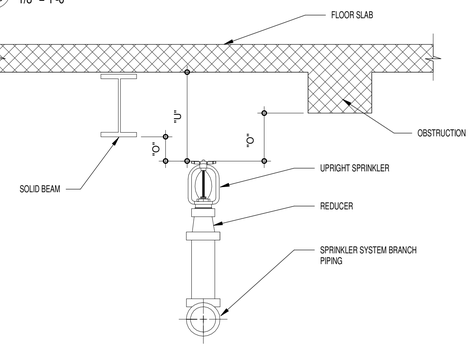
F-000 FIRE PROTECTION TITLE SHEET
F-111 FIRST FLOOR FIRE PROTECTION PLAN



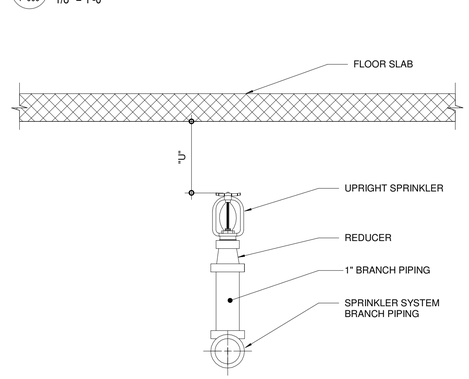
1 F-000 FIRE DEPARTMENT CONNECTION DETAIL
1/8" = 1'-0"



2 F-000 FIRE PROTECTION RISER ASSEMBLY DETAIL
1/8" = 1'-0"



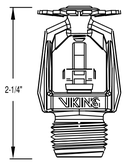
NOTES:
1. "O" SPRINKLER DEFLECTOR SHALL BE LOCATED 1" MINIMUM AND 6" MAXIMUM BELOW OBSTRUCTION.
2. "U" SPRINKLER DEFLECTOR SHALL BE LOCATED 1" MINIMUM AND 22" MAXIMUM BELOW UNDERSIDE OF SLAB.



NOTES:
1. "U" SPRINKLER DEFLECTOR SHALL BE LOCATED 1" MINIMUM AND 12" MAXIMUM BELOW UNDERSIDE OF SLAB

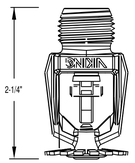
3 F-000 SPRINKLER HEAD OBSTRUCTION DETAIL
NOT TO SCALE

4 F-000 SPRINKLER HEAD UNOBSTRUCTED DETAIL
NOT TO SCALE



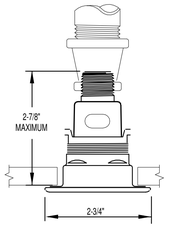
VIKING QUICK RESPONSE SERIES VK300, K= 5.6, 1/2" NPT, UPRIGHT, BRONZE FINISH.

NO SCALE



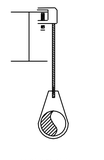
VIKING QUICK RESPONSE SERIES VK302, K=5.6, 1/2" NPT, PENDENT & VIKING SERIES VK352, K=8.0, 3/4" NPT, PENDENT, BRONZE FINISH

NO SCALE



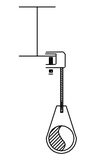
VIKING QUICK RESPONSE SERIES VK462, K=5.6, 1/2" NPT, CONCEALED WITH WHITE COVER PLATE.

NO SCALE



HANGER #1 DETAIL

1 -- ALL THREAD ROD
1 -- RING
1 -- UNIVERSAL TOP BEAM CLAMP



HANGER #2 DETAIL

1 -- ALL THREAD ROD
1 -- RING
1 -- UNIVERSAL TOP BEAM CLAMP



HANGER #4 DETAIL

1 -- ALL THREAD ROD
1 -- RING
1 -- CONCRETE DROP-IN



HANGER #8 DETAIL

1 -- THUNDERBOLT
1 -- ROD
1 -- RING

Protection Areas and Maximum Spacing
(Standard Spray Upright/Standard Spray Pendent)

CONSTRUCTION TYPE	LIGHT HAZARD		ORDINARY HAZARD		EXTRA HAZARD		HIGH-PILED HAZARD	
	Protection Area ft²	Spacing (max.) ft	Protection Area ft²	Spacing (max.) ft	Protection Area ft²	Spacing (max.) ft	Protection Area ft²	Spacing (max.) ft
Noncombustible obstructed and unobstructed and combustible unobstructed	225	15	130	15	100	12	100	12
Combustible obstructed	168	15	130	15	100	12	100	12
Note: For hydraulically calculated systems only.								

MAXIMUM DISTANCE BETWEEN HANGERS

NOMINAL PIPE SIZE (in.)	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A

SPRINKLER NOTES:

1. ALL PIPE TO BE SCHEDULE 40 BLACK STEEL PIPE MEETING OR EXCEEDING ASTM A-135 REQUIREMENTS.

2. ALL SCREW FITTINGS TO BE CAST IRON AND OR MALLEABLE IRON MEETING OR EXCEEDING ANSI B16.4 AND ANSI B16.3.

3. ALL GROOVED FITTINGS TO BE MALLEABLE IRON MEETING OR EXCEEDING ASTM A-536 REQUIREMENTS.

4. ALL HANGERS TO MEET OR EXCEED NFPA PAMPHLET REQUIREMENTS.

5 F-000 SPRINKLER & HANGER DETAILS
NOT TO SCALE

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone 302.738.7172
Fax 302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone 267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

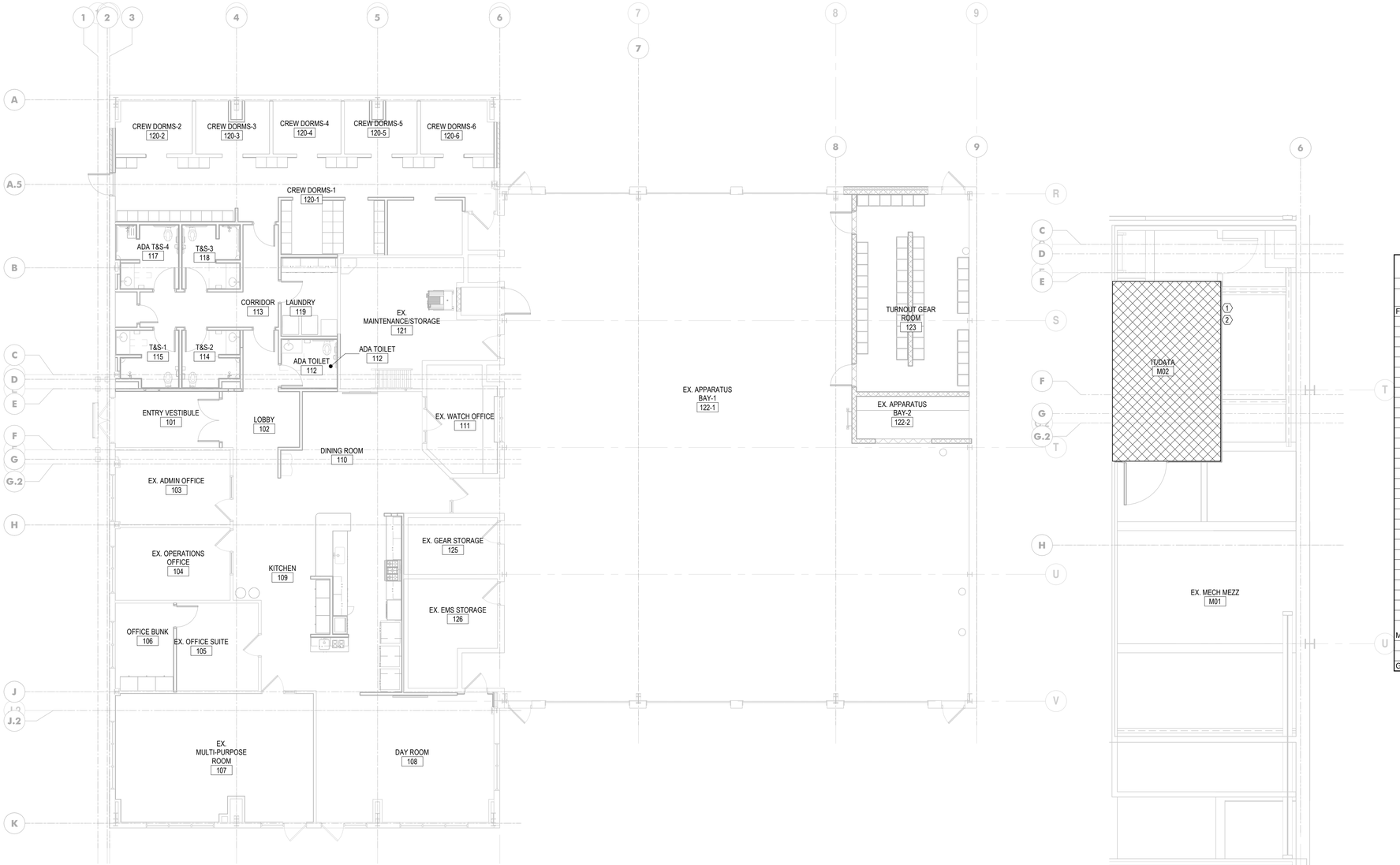
ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

FIRE PROTECTION TITLE SHEET

SHEET
F-000

4/17/2026 1:41:31 PM



1 F-111 LEVEL 1 FIRE PROTECTION PLAN
1/8" = 1'-0"

2 F-111 MEZZANINE FIRE PROTECTION PLAN
1/4" = 1'-0"

KEYNOTES

1 FP CONTRACTOR IS RESPONSIBLE FOR RELOCATING / ADDING SPRINKLER HEADS TO MATCH NEW ARCHITECTURAL / LIGHTING LAYOUT AS REQUIRED.

2 FINAL SPRINKLER QUANTITY AND LAYOUT TO BE PROVIDED BY FIRE SPRINKLER CONTRACTOR.

Automatic Sprinkler Design Criteria

Symbol	Occupancy Hazard Classification	Design Density (GPM/SF)	Design Area
R	Residential (Dwelling) Occupancy	0.05	400 SF
LH	Light Hazard Occupancy	0.10	1500 SF
OH1	Ordinary Hazard, Group 1 Occupancy	0.15	1500 SF
OH2	Ordinary Hazard, Group 2 Occupancy	0.20	1500 SF
EH1	Extra Hazard, Group 1 Occupancy	0.30	2500 SF
EH2	Extra Hazard, Group 2 Occupancy	0.40	2500 SF
S	Special Hazard Occupancy		

Hazard Classification - Level 1

NO.	NAME	AREA	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
FIRST FLOOR			
101	ENTRY VESTIBULE	117 SF	LH
102	LOBBY	157 SF	LH
103	EX. ADMIN OFFICE	170 SF	LH
104	EX. OPERATIONS OFFICE	168 SF	LH
105	EX. OFFICE SUITE	144 SF	LH
106	OFFICE BUNK	102 SF	LH
107	EX. MULTI-PURPOSE ROOM	500 SF	LH
108	DAY ROOM	452 SF	LH
109	KITCHEN	735 SF	LH
110	DINING ROOM	185 SF	LH
111	EX. WATCH OFFICE	142 SF	LH
112	ADA TOILET	56 SF	LH
113	CORRIDOR	146 SF	LH
114	T&S-2	63 SF	LH
115	T&S-1	66 SF	LH
117	ADA T&S-4	78 SF	LH
118	T&S-3	73 SF	LH
119	LAUNDRY	90 SF	LH
120-1	CREW DORMS-1	578 SF	LH
120-2	CREW DORMS-2	85 SF	LH
120-3	CREW DORMS-3	77 SF	LH
120-4	CREW DORMS-4	78 SF	LH
120-5	CREW DORMS-5	76 SF	LH
120-6	CREW DORMS-6	81 SF	LH
121	EX. MAINTENANCE/STORAGE	324 SF	OH2
122-1	EX. APPARATUS BAY-1	4267 SF	OH2
122-2	EX. APPARATUS BAY-2	97 SF	OH2
123	TURNOUT GEAR ROOM	436 SF	OH2
125	EX. GEAR STORAGE	102 SF	OH2
126	EX. EMS STORAGE	165 SF	OH2
MEZZANINE			
M01	EX. MECH MEZZ	333 SF	LH
M02	IT/DATA	84 SF	LH
Grand total: 32		10227 SF	

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND SCOTT A. FRENCK No. 47259 PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

FIRST FLOOR FIRE PROTECTION PLAN

SHEET
F-111

4/17/2026 1:41:34 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

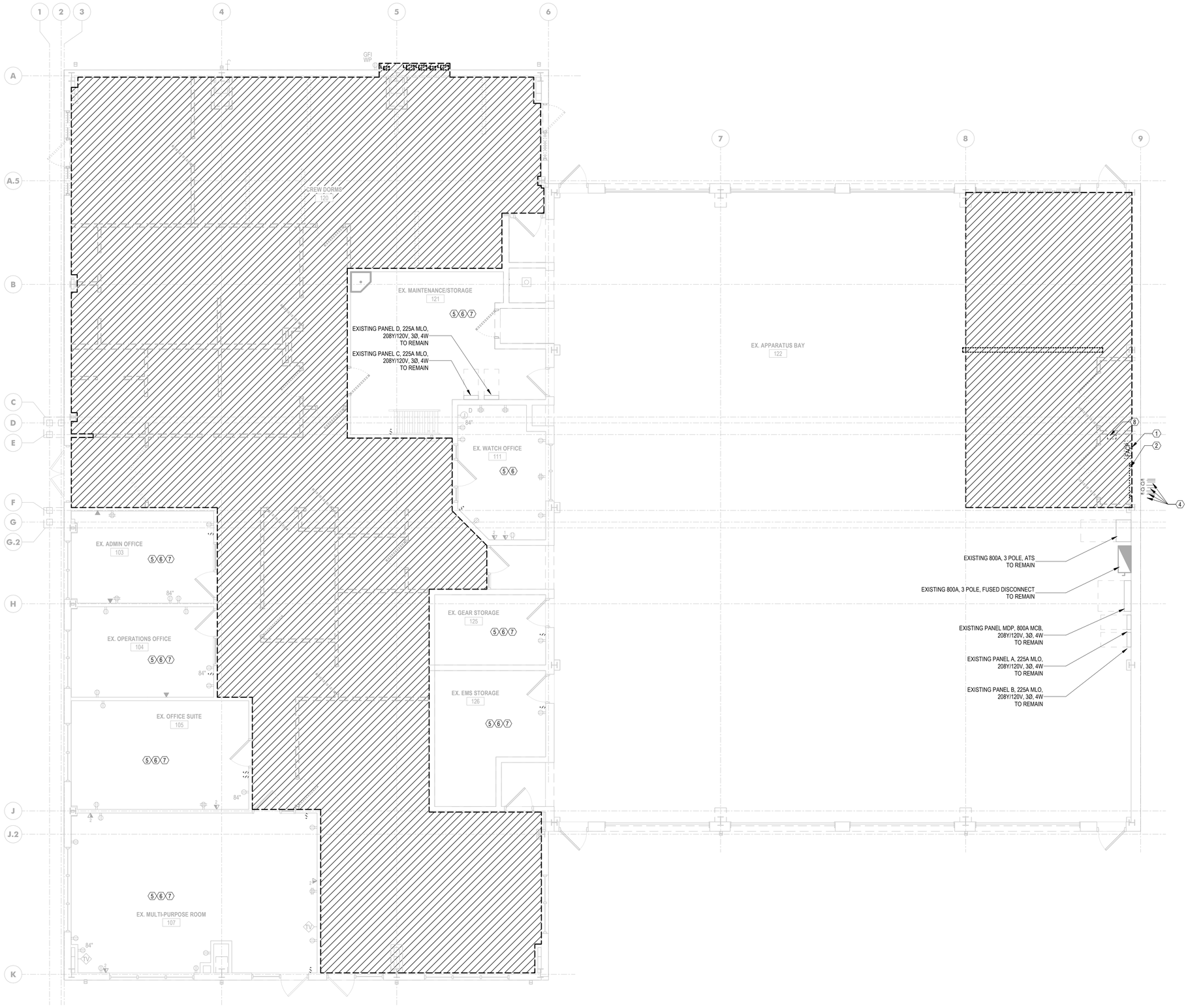
ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
$_{S}$	20A, 120-277V AC, SINGLE POLE TOGGLE SWITCH. MH = 48" A.F.F. AS MEASURED TO BOTTOM OF DEVICE BOX.
$_{S_3}$	20A, 120-277V AC, THREE WAY TOGGLE SWITCH. MH = 48" A.F.F. AS MEASURED TO BOTTOM OF DEVICE BOX.
$_{S_4}$	20A, 120-277V AC, FOUR WAY TOGGLE SWITCH. MH = 48" A.F.F. AS MEASURED TO BOTTOM OF DEVICE BOX.
$_{S_D}$	24V DC, SINGLE BUTTON DIGITAL ON/OFF WALL SWITCH AS MANUFACTURED BY LEVITON MODEL# DRKN-C1s. SWITCH MOUNTING HEIGHT = 48" A.F.F. TO THE TOP OF DEVICE BOX, U.O.N. E.C. TO INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS. CABLING BETWEEN CONTROLLER AND DIGITAL WALL SWITCH SHALL BE CAT-6 CABLE WITH RJ45 CONNECTORS. COLOR AS SELECTED BY ARCHITECT.
$_{S_{DD}}$	24V DC, TWO BUTTON DIGITAL DIMMING WALL SWITCH. SWITCH MOUNTING HEIGHT = 48" A.F.F. TO THE TOP OF DEVICE BOX, U.O.N. SWITCH SHALL BE MODEL NUMBER DRKN-C2s AS MANUFACTURED BY LEVITON OR EQUAL. DIGITAL WALL SWITCH SHALL BE FED BY DIGITAL ROOM CONTROLLER. CABLING BETWEEN CONTROLLER AND DIGITAL WALL SWITCH SHALL BE CAT-6 CABLE WITH RJ45 CONNECTORS. COLOR AS SELECTED BY ARCHITECT.
$_{S_{OC1}}$	20A, 120-277V AC, SINGLE BUTTON WALL MOUNT, PASSIVE INFRARED SINGLE RELAY ON/OFF OCCUPANCY SENSOR. SWITCH MOUNTING HEIGHT = 48" A.F.F. TO CENTER OF DEVICE BOX, U.O.N. OCCUPANCY SWITCH SHALL BE #ODS10-IDx AS MANUFACTURED BY LEVITON. COLOR AS SELECTED BY ARCHITECT.
$_{S_{OC2}}$	20A, 120-277V AC, TWO BUTTON WALL MOUNT, DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC), DUAL RELAY OCCUPANCY SENSOR. SWITCH MOUNTING HEIGHT = 48" A.F.F. TO CENTER OF DEVICE BOX, U.O.N. OCCUPANCY SWITCH SHALL BE #OSSMD-MAx AS MANUFACTURED BY LEVITON. COLOR AS SELECTED BY ARCHITECT.
$_{S_{OC3}}$	20A, 120-277V AC, SINGLE BUTTON 0-10V DIMMING WALL MOUNT, PASSIVE INFRARED, SINGLE RELAY OCCUPANCY SENSOR. SWITCH MOUNTING HEIGHT = 48" A.F.F. TO CENTER OF DEVICE BOX, U.O.N. OCCUPANCY SWITCH SHALL BE #ODD10-IDW AS MANUFACTURED BY LEVITON. COLOR AS SELECTED BY ARCHITECT.
$_{S_{D10}}$	20A, 120-277VAC, DECORA STYLE SMART WALL MOUNTED 0-10V DIMMING SWITCH. SWITCH MOUNTING HEIGHT = 48" A.F.F. TO CENTER OF DEVICE BOX, U.O.N. OCCUPANCY SWITCH SHALL BE #DUST-DZ AS MANUFACTURED BY LEVITON OR APPROVED EQUAL. COLOR AS SELECTED BY ARCHITECT.
$_{S_{FC}}$	20A, 120-277VAC, FAN CONTROLLER WALL BOX AS MANUFACTURED BY WATTSTOPPER MODEL# CDSC9-X. E.C. TO INSTALL PER MANUFACTURERS INSTRUCTIONS. COLOR TO BE SELECTED BY ARCHITECT.
$_{S_{CC}}$	20A, 120-277VAC, RGBW LED LIGHTING CONTROLLER, COLORDIAL PRO AS MANUFACTURED BY COLOR KINETICS OR EQUAL. E.C. SHALL FURNISH AND INSTALL CONTROLLER AND WIRING TO ALL DEVICES.
OC	1500 SQ. FT. COVERAGE CEILING MOUNTED OCCUPANCY SENSOR AND PHOTOCELL, 24V DC, DUAL TECHNOLOGY (MIRCOWAVE AND PASSIVE INFRARED). SENSOR SHALL BE MODEL NUMBER OSR16-MOH AS MANUFACTURED BY LEVITON OR EQUAL. FINISH SHALL BE SELECTED BY OWNER/ARCHITECT. OCCUPANCY SENSOR SHALL BE FED FROM DIGITAL ROOM CONTROLLER. CABLING BETWEEN CONTROLLER AND OCCUPANCY SENSOR SHALL BE CAT-6 CABLE WITH RJ45 CONNECTORS.
OC2	2000 SQ. FT. COVERAGE WALL MOUNTED OCCUPANCY SENSOR, 24V DC, DUAL TECHNOLOGY (ULTRASONIC AND PASSIVE INFRARED). SENSOR SHALL BE MODEL NUMBER OSC20-MWx AS MANUFACTURED BY LEVITON OR EQUAL. OCCUPANCY SENSOR SHALL BE FED FROM DIGITAL ROOM CONTROLLER. OCCUPANCY SENSOR SHALL BE PROVIDED WITH A 2-PORT ANALOG INTERFACE. MODEL NUMBER DR0D-CB2 AS MANUFACTURED BY LEVITON. CABLING BETWEEN CONTROLLER AND OCCUPANCY SENSOR SHALL BE CAT-6 CABLE WITH RJ45 CONNECTORS.
RCD1	20A, 120-277V AC, 60HZ, ON/OFF/0-10V DIMMING LINE VOLTAGE ROOM CONTROLLER, SINGLE RELAY, UL LISTED, U.O.N. SWITCH SHALL BE MODEL NUMBER DRC07-ED0 AS MANUFACTURED BY LEVITON OR EQUAL. CABLING BETWEEN LOW VOLTAGE DEVICES AND DIGITAL ROOM CONTROLLER SHALL BE CAT-6 CABLE WITH RJ45 CONNECTORS. E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE DROP CEILING IN ACCESSIBLE SPACE. ROOM CONTROLLER'S CONTROLLING LIGHTING FED FROM EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN ADDITIONAL LINE VOLTAGE CONTROLLER ERC0. CONTROLLER SHALL BE MANUFACTURED BY LEVITON, MODEL DRD07-ED0. GREENMAX DIGITAL CONFIGURATION APP SHALL BE USED TO PROGRAM THE DIGITAL ROOM CONTROLLERS.
RCD2	20A, 120-277V AC, 60HZ, ON/OFF/0-10V DIMMING DIGITAL ROOM CONTROLLER, SINGLE OR DUAL RELAY, UL LISTED, U.O.N. SWITCH SHALL BE MODEL NUMBER DRD07-D2U AS MANUFACTURED BY LEVITON OR EQUAL. CABLING BETWEEN LOW VOLTAGE DEVICES AND DIGITAL ROOM CONTROLLER SHALL BE CAT-6 CABLE WITH RJ45 CONNECTORS. E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE DROP CEILING IN ACCESSIBLE SPACE. ROOM CONTROLLER'S CONTROLLING LIGHTING FED FROM EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN ADDITIONAL LINE VOLTAGE CONTROLLER. CONTROLLER SHALL BE MANUFACTURED BY LEVITON, MODEL DRD07-ED0. GREENMAX DIGITAL CONFIGURATION APP SHALL BE USED TO PROGRAM THE DIGITAL ROOM CONTROLLERS.
RCD4	20A, 120-277V AC, 60HZ, ON/OFF/0-10V DIMMING DIGITAL ROOM CONTROLLER, FOUR RELAY, UL LISTED, U.O.N. SWITCH SHALL BE MODEL NUMBER DRD07-4-AU AS MANUFACTURED BY LEVITON OR EQUAL. CABLING BETWEEN LOW VOLTAGE DEVICES AND DIGITAL ROOM CONTROLLER SHALL BE CAT-6 CABLE WITH RJ45 CONNECTORS. E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE DROP CEILING IN ACCESSIBLE SPACE. ROOM CONTROLLER'S CONTROLLING LIGHTING FED FROM EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN ADDITIONAL LINE VOLTAGE CONTROLLER. CONTROLLER SHALL BE MANUFACTURED BY LEVITON, MODEL DRD07-ED0. GREENMAX DIGITAL CONFIGURATION APP SHALL BE USED TO PROGRAM THE DIGITAL ROOM CONTROLLERS. WP = WATERPROOF PROTECTIVE COVER.
RCSP	20A, 120-277V AC, 60HZ, ON/OFF/0-10V DIMMING DIGITAL SMART PACK, SINGLE RELAY, UL LISTED, U.O.N. SWITCH SHALL BE MODEL NUMBER DRC07-ED0 AS MANUFACTURED BY LEVITON OR EQUAL. CABLING BETWEEN LOW VOLTAGE DEVICES AND DIGITAL ROOM CONTROLLER SHALL BE CAT-6 CABLE WITH RJ45 CONNECTORS. E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE DROP CEILING IN ACCESSIBLE SPACE. ROOM CONTROLLER'S CONTROLLING LIGHTING FED FROM EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN ADDITIONAL LINE VOLTAGE CONTROLLER. CONTROLLER SHALL BE MANUFACTURED BY LEVITON, MODEL DRD07-ED0. GREENMAX DIGITAL CONFIGURATION APP SHALL BE USED TO PROGRAM THE DIGITAL ROOM CONTROLLERS.

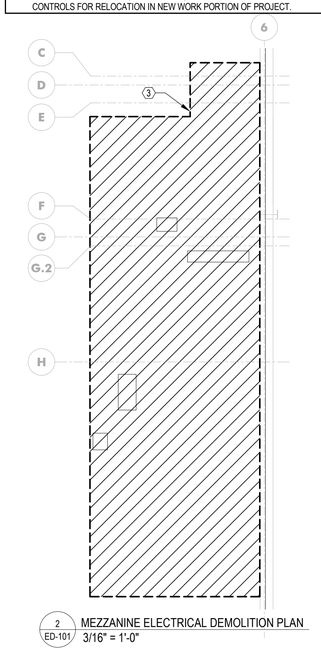
SYMBOL	DESCRIPTION
	3 BUTTON OVERHEAD DOOR CONTROLLER
	20A, 120V AC, NEMA 5-20R, DUPLEX RECEPTACLE, SINGLE GANG BOX, TILE RING (DEPTH AS REQUIRED), COVERPLATE. MOUNTING HEIGHT TO CENTER OF DEVICE = 18" AFF TO CENTER OF DEVICE BOX, U.O.N. "X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK). T = TAMPER PROOF
GFI	20A, 120V AC, NEMA 5-20R, DUPLEX GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE (GFI), SINGLE GANG BOX, TILE RING (DEPTH AS REQUIRED). MOUNTING HEIGHT TO CENTER OF DEVICE = 18" A.F.F., "X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK). WP = IN USE WEATHERPROOF COVER.
ISO	20A, 120V AC, NEMA 5-20R, DUPLEX RECEPTACLE, SINGLE GANG BOX, TILE RING (DEPTH AS REQUIRED). MOUNTING HEIGHT TO CENTER OF DEVICE = 18" A.F.F., "X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK). ISO = GASKETED STAINLESS STEEL COVERPLATE.
GFI ISO	20A, 120V AC, NEMA 5-20R, DUPLEX GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE (GFI), SINGLE GANG BOX, TILE RING (DEPTH AS REQUIRED). MOUNTING HEIGHT TO CENTER OF DEVICE = 48" A.F.F., ISO = GASKETED STAINLESS STEEL COVERPLATE
S	20A, 120V AC, NEMA 5-20R, SURFACE MOUNTED DUPLEX RECEPTACLE, 4" SQUARE BOX, CONDUIT STUBBED UP TO EASILY ACCESSIBLE SPACE ABOVE CEILING. MOUNTING HEIGHT TO CENTER OF DEVICE = 18" AFF TO CENTER OF DEVICE BOX, U.O.N., X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK).
U	20A, 120V AC, NEMA 5-20R, DUPLEX RECEPTACLE WITH 3.1 AMP USB CHARGING PORT. MOUNTING HEIGHT TO CENTER OF DEVICE = 18" AFF TO CENTER OF DEVICE BOX, U.O.N., X"= INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK).
	20A, 120V AC, NEMA 5-20R, DOUBLE DUPLEX RECEPTACLE, DOUBLE GANG BOX, TILE RING (DEPTH AS REQUIRED). MOUNTING HEIGHT TO CENTER OF DEVICE = 18" A.F.F., X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK). T = TAMPER PROOF, ISO = GASKETED STAINLESS STEEL COVERPLATE. U = 3.1 AMP USB CHARGING PORT
GFI WP	20A, 120V AC, NEMA 5-20R, GROUND FAULT CIRCUIT INTERRUPTER (GFI) TYPE DOUBLE DUPLEX RECEPTACLE. DOUBLE GANG BOX, TILE RING (DEPTH AS REQUIRED). MOUNTING HEIGHT TO CENTER OF DEVICE = 18" A.F.F., X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK). T = TAMPER PROOF WP = IDENTIFIES "IN USE" WEATHERPROOF COVER.
45° ISO	20A, 120V AC, NEMA 5-20R, SURFACE MOUNTED DOUBLE DUPLEX RECEPTACLE, CONDUIT STUBBED UP TO EASILY ACCESSIBLE SPACE ABOVE CEILING. GASKETED. X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK). PROOF WP = IDENTIFIES "IN USE" WEATHERPROOF COVER, ISO = GASKETED STAINLESS STEEL COVERPLATE
XX-XXR	SPECIAL PURPOSE ELECTRICAL RECEPTACLE. XX-XXR = NEMA CONFIGURATION, X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK)
S XX-XXR	ELECTRIC CORD REEL, FED FROM GFCI BRANCH CIRCUIT BREAKER, 20A, 250VAC RATED, YELLOW INDUSTRIAL REEL, UL TYPE 1, 35FT #12/3 SJO CORD, W/ YELLOW FEMALE WATERPROOF SINGLE RECEPTACLE. CORD REEL SHALL BE MODEL #HBL9351Y WITH RECEPTACLE END #HBL1533 AS MANUFACTURED BY HUBBELL. PROVIDE BALL STOP #HBL1035 AND PIVOT BASE #HVL1340PB AS MANUFACTURED BY HUBBELL. XX-XXR = NEMA CONFIGURATION.
XX-XXR	ELECTRIC CORD REEL, FED FROM GFCI BRANCH CIRCUIT BREAKER, 30A, 250VAC RATED, YELLOW INDUSTRIAL REEL, UL TYPE 1, #10/3 SJO CORD, W/ YELLOW LOCKING FEMALE WATERPROOF RECEPTACLE. CORD REEL SHALL BE MODEL #HBL9351Y WITH RECEPTACLE END #HBL2815Y AS MANUFACTURED BY HUBBELL. PROVIDE BALL STOP #HBL1035 AND PIVOT BASE #HVL1340PB AS MANUFACTURED BY HUBBELL. XX-XXR = NEMA CONFIGURATION.
H	CLOCK (TYPE DENOTED)
H S	RECESSED JUNCTION BOX. CONDUIT STUBBED UP TO EASILY ACCESSIBLE SPACE ABOVE CEILING. "I" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK).
H S	SURFACE MOUNTED JUNCTION BOX, RACEWAY STUBBED UP TO EASILY ACCESSIBLE SPACE ABOVE CEILING. X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK)
J	FLOOR/CEILING RECESSED JUNCTION BOX
PB	PULL BOX
	POWER OR DISTRIBUTION PANEL. HIDDEN LINE REPRESENTS ELECTRICAL CLEARANCE SPACE.
	TRANSFORMER (SIZE AS DENOTED). HIDDEN LINE REPRESENTS ELECTRICAL CLEARANCE SPACE.
XX-1	MOTOR
S B	LOW VOLTAGE MOTORIZED BLIND CONTROLLER, DECOFLEX DRY CONTACT KEYPAD SHALL BE ITEM #1811402 AS MANUFACTURED BY HUNTER DOUGLAS.
M	SINGLE-POLE OR TWO-POLE (AS REQUIRED), 250V AC, 1 HP RATED, TOGGLE TYPE MANUAL MOTOR STARTED UNIT WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY, APPROPRIATELY SIZED THERMAL UNITS, NEMA TYPE 1 OR 4 (AS REQUIRED) ENCLOSURE, AND HANDLE GUARD/LOCK-OFF. SQUARE D CLASS 2510 FG OR FW TYPES (AS REQUIRED) OR APPROVED EQUAL. THREE-POLE, 250V AC, 1 OR 2 HP RATED (AS REQUIRED), TOGGLE TYPE MANUAL MOTOR STARTER UNIT WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY, APPROPRIATELY SIZED THERMAL UNITS, NEMA TYPE 1 ENCLOSURE AND HANDLE GUARD/LOCK-OFF. SQUARE D CLASS 2510 K TYPE OR APPROVED EQUAL.
#A #AF NEMA#	FUSIBLE SWITCH TYPE COMBINATION STARTER UNIT WITH DOOR MOUNTED H-O-A SWITCH AND RED "MOTOR RUNNING" LED TYPE PILOT LIGHT. PROVIDE AUXILIARY CONTACT. "NEMA #" IDENTIFIES NEMA ENCLOSURE TYPE. "#A" IDENTIFIES DISCONNECT SWITCH AMPACITY RATING. "#AF", IF PRESENT, IDENTIFIES APPROXIMATE FUSE RATING. UNLESS OTHERWISE NOTED, ALL FUSIBLE DISCONNECT SWITCHES SHALL BE COMPLETE WITH APPROPRIATELY SIZED DE, TD, CL, CLASS RK5 FUSES.
#A NEMA#	NON-FUSIBLE DISCONNECT SWITCH. "#A" IDENTIFIES DISCONNECT SWITCH AMPACITY RATING. "NEMA #" IDENTIFIES NEMA ENCLOSURE TYPE.
#A #AF NEMA#	FUSIBLE DISCONNECT SWITCH. "#A" IDENTIFIES DISCONNECT SWITCH AMPACITY RATING. #AF IDENTIFIES DISCONNECT FUSE SIZE. "NEMA #" IDENTIFIES NEMA ENCLOSURE TYPE.
FB1	CAST-IRON ON-GRADE STYLE FLOORBOX WITH 10 GANGS, PROVIDE (2) HDMI OUTLETS, (4) RJ-45 ETHERNET OUTLETS, AND (2) 20A, 120V AC DUPLEX RECEPTACLES. FURNISH MODEL #EFB10S-OG AS MANUFACTURED BY WIREMOLD LEGRANDE.
FRPT1	FIRE-RATED POKE-THRU W (2) 20A, 120V AC DUPLEX RECEPTACLES, MULTIMEDIA CONNECTIONS & SURFACE COVER. FIRE RATED POKE-THRU SHALL BE MODEL # 8ATC2BK AS MANUFACTURED BY WIREMOLD LEGRAND.
MM	8 GANG WALLBOX. PROVIDE 11"x13"x3 7/8" DEEP WALL BOX, TILE RING (DEPTH AS REQUIRED). STUB-UP (1) 1-1/4" CONDUIT FROM WALL BOX UP TO DATA OUTLET MOUNTED ABOVE BOX AT 72" A.F.F. FURNISH BOX WITH TWO GANGS FOR 5-20R DUPLEX RECEPTACLES, ONE GANG FOR (1) COAX "F" , (1) HDMI and (2) RJ-45 ETHERNET CONNECTIONS, AND ONE GANG SPARE. MOUNTING HEIGHT TO BOTTOM OF BOX SHALL BE AS COORDINATED WITH ARCHITECTURAL DRAWINGS. WALLBOX MODEL SHALL BE #EHWB8-WH AS MANUFACTURED BY WIREMOLD LEGRANDE.
WM	4" WIDE STAINLESS STEEL RACEWAY, 20A-120V DUPLEX RECEPTACLE @ EVERY 6' O.C. RACEWAY SHALL BE #DS4000 AS MANUFACTURED BY WIREMOLD LEGRANDE. PROVIDE RACEWAY WIRE DIVIDER FOR COMMUNICATIONS INSTALLATIONS WHERE SHOWN ON DRAWINGS.

SYMBOL	DESCRIPTION
	BUS DUCT WITH PLUG IN DISCONNECT (FUSED)
R	RELAY
	ENCLOSED CIRCUIT BREAKER
	PRESSURE SWITCH
	FLOAT SWITCH
P	PHOTOCELL
T	TIME CLOCK. AS SHOWN ON WIRING DIAGRAMS
	TELEPHONE OUTLET CONSISTING OF ONE 4 PORT COVERPLATE, 4" SQUARE BOX, DEVICE PLATE, TILE RING (DEPTH AS REQUIRED). (1) 1-1/4" CONDUIT STUBBED UP INTO THE NEAREST ACCESSIBLE CEILING. POTS LINE TERMINATED AT DEVICE OUTLET AND RAN BACK TO DEMARC BACKBOARD. MOUNTING HEIGHT=18" AFF TO THE CENTER OF DEVICE BOX UNLESS OTHERWISE NOTED. E.C. SHALL FURNISH AND INSTALL ALL WIRING DEVICES, DEVICE PLATES, WIRE TERMINATIONS ON BOTH ENDS, HEAD-END EQUIPMENT, AND PERFORM ALL PROGRAMMING.
	COMBINATION VOICE/DATA OUTLET CONSISTING OF ONE 4 PORT COVERPLATE, 4" SQUARE BOX, TILE RING (DEPTH AS REQUIRED). 1-1/4" CONDUIT STUBBED UP INTO THE NEAREST EASILY ACCESSIBLE CEILING SPACE AND CAT-6 CABLE TERMINATED ON WIRING DEVICE AND INSTALLED BACK TO I.T. ROOM WITH 10' SLACK COILED UP IN ROOM. MOUNTING HEIGHT=18" AFF TO THE CENTER OF DEVICE BOX UNLESS OTHERWISE NOTED. E.C. SHALL FURNISH AND INSTALL ALL WIRING DEVICES, DEVICE PLATES, WIRE TERMINATIONS ON BOTH ENDS, HEAD-END EQUIPMENT, AND PERFORM ALL PROGRAMMING.
SURG	COMBINATION VOICE/DATA OUTLET CONSISTING OF ONE 4 PORT COVERPLATE, SURFACE MOUNTED 4" SQUARE BOX, TILE RING (DEPTH AS REQUIRED). 1-1/4" CONDUIT STUBBED UP INTO THE NEAREST EASILY ACCESSIBLE CEILING SPACE AND CAT-6 CABLE TERMINATED ON WIRING DEVICE AND INSTALLED BACK TO I.T. ROOM. MOUNTING HEIGHT=18" AFF TO THE CENTER OF DEVICE BOX UNLESS OTHERWISE NOTED. E.C. SHALL FURNISH AND INSTALL ALL WIRING DEVICES, DEVICE PLATES, WIRE TERMINATIONS ON BOTH ENDS, HEAD-END EQUIPMENT, AND PERFORM ALL PROGRAMMING.
	WIRELESS ACCESS POINT CONSISTING OF JUNCTION BOX, TILE RING, DEVICES, DEVICE PLATES AND CAT-6 WIRE INSTALLED BACK TO I.T. ROOM AND TERMINATIONS ON BOTH ENDS. ALL FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
TV	TELEVISION OUTLET. PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED), STUB-UP 1 1/4" CONDUIT TO NEAREST ACCESSIBLE SPACE. AND RG-6 CABLE INSTALLED FROM DEMARC TO OUTLET. MOUNTING HEIGHT = 18" A.F.F. TO CENTER OF DEVICE. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL DEVICES, DEVICE PLATES, AND COAX CABLE.
	HORN TYPE SPEAKER
HS1	ALERTING SYSTEM VISUAL FHA TROUBLE STROBE LIGHT. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.
HS2	ALERTING SYSTEM VISUAL FHA RED STROBE LIGHT. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.
AS	ALERTING SYSTEM CEILING MOUNTED 8" SPEAKER. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.
AS OD	ALERTING SYSTEM CEILING MOUNTED OMNI-DIRECTIONAL SPEAKER. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.
BS	ALERTING SYSTEM CEILING MOUNTED BATHROOM SPEAKER. ALERTING SYSTEM RED VISUAL STROBE LIGHT. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE. TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.
LEB	ALERTING SYSTEM CEILING MOUNTED 8" LED LIGHT/SPEAKER. ALERTING SYSTEM RED VISUAL STROBE LIGHT. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE. TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.
AS	ALERTING SYSTEM WALL MOUNTED SPEAKER. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE. TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.
	ALERTING SYSTEM EXTERIOR WALL RECESS MOUNTED SPEAKER WITH GRILL GUARD. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.
	KEYED NOTE (SEE KEYNOTE ON PLAN)
X-#	TYPICAL BRANCH CIRCUITING HOME RUN SYMBOL. GENERALLY, 15A AND 20A BRANCH CIRCUITS CONSISTS OF (2) #12 AWG CU. AND (1) #12 AWG CU. GND. IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. "X" IDENTIFIES PANELBOARD DESIGNATION; "#" IDENTIFIES PANELBOARD CIRCUIT NUMBER.
	LIGHT AND SOLID SYMBOL INDICATES EXISTING TO REMAIN
	DARK AND SOLID SYMBOL INDICATES NEW WORK
	DARK AND DASHED SYMBOL INDICATES DEMOLISHED.
	BELL
	BUZZER
	CHIME
	DOOR SIGNAL - APT. UNIT
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM REMOTE ANNUNCIATOR
S	PHOTOVOLTAIC SYSTEM SMOKE DETECTOR, E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED), R = ELEVATOR RECALL
H	RATE OF RISE SYSTEM HEAT DETECTOR, E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED).
S	PHOTOELECTRIC SYSTEM DUCT SMOKE DETECTOR WITH REMOTE TEST STATION
CO	FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR, E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED).
CO S	FIRE ALARM SYSTEM COMBINATION SMOKE/CO DETECTOR. E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED).
	FIRE ALARM WALL MOUNTED STROBE LIGHT. E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED). WP = WEATHERPROOF
	FIRE ALARM HORN STROBE. E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED). WP=WEATHERPROOF, LF=LOW FREQUENCY
F	FIRE ALARM BELL. E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED). WP=WEATHERPROOF
F	F.A. PULLSTATION, E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED). WP = WEATHERPROOF
	SPRINKLER FLOW SWITCH
	SPRINKLER VALVE TAMPER SWITCH
FPS	FIRE ALARM SHUT-DOWN RELAY

SYMBOL	DESCRIPTION
	ELECTRIC STRIKE. (AS PROVIDED BY ELECTRICAL CONTRACTOR) JUNCTION BOX AT DOOR STRIKE LOCATION.
	MAGNETIC LOCK
	COMBINATION LOCK
	DOOR CONTACTS
	CARD ACCESS READER, CONSISTING OF 4" SQUARE JUNCTION BOX AT 48" A.F.F., 120VAV LOW VOLTAGE TRANSFORMER, TILE RING (DEPTH AS REQUIRED), CARD ACCESS READER (AS PROVIDED BY ELECTRICAL CONTRACTOR), JUNCTION BOX OVERTOP OF DOOR JAM, 3/4" CONDUIT STUBBED UP INTO EASILY ACCESSIBLE CEILING SPACE FROM TOP JUNCTION BOX, TRANSFORMERS, TILE RINGS, JUNCTION BOXES, CONDUIT, LINE VOLTAGE WIRE, AND LOW-VOLTAGE WIRE INSTALLED FROM WIRING DEVICE BOX TO I.T. ROOM AND TERMINATED ON BOTH ENDS. REFER TO DRAWING E602 FOR DETAILS.
	HAND SWIPE PROXIMITY READER, CONSISTING OF 4" SQUARE JUNCTION BOX AT 48" A.F.F., TILE RING (DEPTH AS REQUIRED), PROXIMITY READER (AS PROVIDED BY OWNERS SECURITY CONTRACTOR), JUNCTION BOX OVERTOP OF DOOR JAM, 3/4" CONDUIT CONNECTING JUNCTION BOXES, AND CONDUIT STUBBED UP INTO EASILY ACCESSIBLE CEILING SPACE FROM TOP JUNCTION BOX. REFER TO DRAWING E602 FOR DETAILS. OWNER'S SECURITY VENDOR TO PROVIDE ALL HEAD-END EQUIPMENT, DEVICES, TERMINATIONS AND PROGRAMMING. E.C. SHALL PROVIDE ALL TRANSFORMERS, TILE RINGS, JUNCTION BOXES, CONDUIT, LINE VOLTAGE WIRE, AND LOW-VOLTAGE WIRE INSTALLED FROM WIRING DEVICE BOX TO I.T. ROOM WITH 10' SLACK COILED UP IN ROOM.
	SINGLE BUTTON "DOOR RELEASE" DEVICE. E.C. SHALL FURNISH AND INSTALL J-BOX AND 3/4" CONDUIT STUBBED UP ABOVE CEILING AND WIRE INSTALLED FROM DEVICE BOX TO DOOR RELEASE CONTACT. E.C. TO FURNISH AND INSTALL DEVICES, DEVICE PLATES, TERMINATIONS, WIRING AND PROGRAMMING.
DL	SINGLE BUTTON "PANIC" DEVICE. E.C. SHALL FURNISH AND INSTALL J-BOX AND 3/4" CONDUIT STUBBED UP ABOVE CEILING AND WIRE INSTALLED FROM DEVICE BOX TO SECURITY SYSTEM HEAD-END EQUIPMENT LOCATION. SECURITY VENDOR TO FURNISH AND INSTALL DEVICES, DEVICE PLATES, TERMINATIONS AND PROGRAMMING.
	SECURITY KEYPAD. E.C. SHALL FURNISH AND INSTALL J-BOX AND 3/4" CONDUIT STUBBED UP ABOVE CEILING AND WIRE INSTALLED FROM DEVICE BOX TO I.T. ROOM WITH 10' SLACK COILED UP IN ROOM. SECURITY VENDOR TO FURNISH AND INSTALL DEVICES, DEVICE PLATES, TERMINATIONS AND PROGRAMMING.
	WALL MOUNTED MOTION DETECTORS E.C. SHALL FURNISH AND INSTALL J-BOX AND 3/4" CONDUIT STUBBED UP ABOVE CEILING AND WIRE INSTALLED FROM DEVICE BOX TO I.T. ROOM WITH 10' SLACK COILED UP IN ROOM. SECURITY VENDOR TO FURNISH AND INSTALL DEVICES, DEVICE PLATES, TERMINATIONS AND PROGRAMMING.
MD	CEILING MOUNTED MOTION DETECTOR
	NURSE CALL EMERG. STATION
	NURSE CALL CODE BLUE EMERG. STATION
	NURSE CALL DUTY STATION
	NURSE CALL STAFF STATION
	NURSE CALL SINGLE PATIENT STATION
	NURSE CALL DUAL PATIENT STATION
	NURSE CALL DOME LIGHT (2 LAMP)
C WP	CCTV CAMERA LOCATION, CONSISTING OF 4" SQUARE JUNCTION BOX, CAT-6 CABLE INSTALLED TO I.T. ROOM WITH 10' SLACK COILED UP IN ROOM, TILE RING(DEPTH AS REQUIRED), AND 1" CONDUIT STUBBED UP INTO EASILY ACCESSIBLE CEILING SPACE WHEN WALL MOUNTED. ALL HEAD-END EQUIPMENT, DEVICES, DEVICE PLATES, TERMINATIONS AND PROGRAMMING PROVIDED BY ELECTRICAL CONTRACTOR. WP=WEATHERPROOF COVER.
C 360 WP	360 DEGREE CCTV CAMERA DRIVE LOCATION, CONSISTING OF 4" SQUARE JUNCTION BOX, CAT-6 CABLE INSTALLED TO I.T. ROOM WITH 10' SLACK COILED UP IN ROOM, TILE RING(DEPTH AS REQUIRED), AND 1" CONDUIT STUBBED UP INTO EASILY ACCESSIBLE CEILING SPACE WHEN WALL MOUNTED. ALL HEAD-END EQUIPMENT, DEVIC



1 ED-101 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
3/16" = 1'-0"



2 ED-101 MEZZANINE ELECTRICAL DEMOLITION PLAN
3/16" = 1'-0"

ELECTRICAL DEMOLITION NOTES

1. ALL ITEMS SHOWN DARK AND DASHED ON PLANS SHALL REPRESENT ITEMS TO BE DEMOLISHED, UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN LIGHT AND SOLID ON PLANS SHALL REPRESENT ITEMS THAT ARE EXISTING TO REMAIN.
2. ALL EQUIPMENT SHOWN DEMOLISHED SHALL HAVE THEIR EXISTING BRANCH CIRCUITS, CONDUITS, AND DISCONNECT SWITCHES DEMOLISHED BACK TO POINT OF ORIGINATION UNLESS OTHERWISE NOTED.
3. E.C. SHALL DE-ENERGIZE, DISCONNECT, AND DEMOLISH ALL EXISTING RECEPTACLES, LIGHTING FIXTURES, LIGHTING CONTROLS, TELEDATA DEVICES, SECURITY DEVICES, AND MECHANICAL CONNECTIONS IN FIRST FLOOR HATCHED AREA UNLESS NOTED OTHERWISE. E.C. SHALL DEMOLISH ALL EXISTING BRANCH FEEDERS AND CONDUITS TO POINT OF ORIGINATION. E.C. SHALL COORDINATE DE-ENERGIZATION AND DISCONNECTION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
4. E.C. SHALL REMOVE EXISTING FIRE ALARM DEVICES AND COMMUNICATIONS DEVICES IN HATCHED AREA FROM THEIR INSTALLED LOCATIONS FOR DEMOLITION OF CEILINGS, WALLS, AND FLOORS AND REMAIN CONNECTED TO SYSTEM. E.C. SHALL SUPPORT ALL DEVICES FROM BUILDING STRUCTURE WITH WIRE DURING DEMOLITION AND NEW WORK PHASES OF PROJECT. ALL FIRE ALARM DEVICES SHALL STAY IN FULL OPERATION UNTIL NEW FIRE ALARM WIRING DEVICES HAVE BEEN FULLY INSTALLED AND HAVE PASSED INSPECTION PRIOR TO DEMOLISHING EXISTING FIRE ALARM DEVICES. E.C. SHALL PROVIDE DUST CAPS ON ALL SMOKE DETECTORS IN AREAS WHERE DUST WILL BE CREATED. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH FIRE ALARM CONTRACTOR AND OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK.
5. E.C. SHALL SAFEGUARD ALL BRANCH CIRCUITS FEEDING DEVICES OUTSIDE AREA OF WORK THROUGH ALL PHASES OF PROJECT. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH EXISTING CONDITIONS.
6. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH OTHER TRADES PRIOR TO COMMENCING DEMOLITION WORK.
7. E.C. SHALL LAWFULLY DISCARD OF ALL DEMOLISHED ITEMS IN ACCORDANCE WITH FEDERAL, STATE, CITY, AND LOCAL CODES AND ORDINANCES IN EFFECT.
8. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL DEMOLISHED ITEMS PRIOR TO DISCARDMENT.
9. IT IS THE INTENT OF THESE DIAGRAMMATIC DRAWINGS TO PROVIDE THE PROJECT SCOPE INCLUDING, BUT NOT LIMITED TO DEMOLITION AND NEW CONSTRUCTION. EXISTING INFORMATION INDICATED ON THESE PLANS DOES NOT REPRESENT ALL EXISTING CONDITIONS. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AND PROJECT INTENT PRIOR TO BID SUBMISSION. NO EXTRA WILL BE ALLOWED DUE TO THE LACK OF KNOWLEDGE OF EXISTING CONDITIONS TO COORDINATE RELOCATION OF ELECTRICAL SYSTEMS AS REQUIRED.
10. PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.
11. E.C. SHALL COORDINATE ALL OUTAGES WITH GENERAL CONTRACTOR AND OWNERS REPRESENTATIVE (2) WEEKS PRIOR TO DE-ENERGIZATION.

KEYNOTES

1. E.C. SHALL DE-ENERGIZE, DISCONNECT, AND SAFEGUARD EXISTING FACP TO BE RELOCATED. E.C. SHALL SAFEGUARD ALL INITIATION AND NOTIFICATION CIRCUITS EXISTING TO REMAIN. E.C. SHALL COORDINATE ALL OUTAGES WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
2. E.C. SHALL DE-ENERGIZE, DISCONNECT, AND SAFEGUARD EXISTING TELE/DATA DEMARCATION BACKBOARD AND ALL SECONDARY EQUIPMENT FOR RELOCATION. E.C. SHALL SAFEGUARD ALL DATA LINES EXISTING TO REMAIN. E.C. SHALL COORDINATE DISABLING OF TELE/DATA SYSTEM WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
3. E.C. SHALL DE-ENERGIZE, DISCONNECT AND DEMOLISH EXISTING BRANCH FEEDERS FOR EXISTING AIR HANDLER UNITS AND ASSOCIATED EQUIPMENT FOR DEMOLITON BY THE MECHANICAL CONTRACTOR. E.C. SHALL SAFEGUARD ALL CIRCUITS AND CONNECTIONS TO MECHANICAL EQUIPMENT THAT IS EXISTING TO REMAIN IN THIS AREA. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
4. E.C. SHALL INTERCEPT EXISTING TELE/DATA CONDUITS AT CURRENT EXTERIOR WALL PENETRATION. E.C. SHALL SAFEGUARD EXISITNG TELELDATA FEEDS FOR REUSE IN NEW WORK PORTION OF PROJECT. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH EXISTING CONDITIONS.
5. E.C. SHALL DE-ENERGIZE, DISCONNECT, AND DEMOLISH EXISTING LIGHTING IN CEILINGS TO BE DEMOLISHED. LIGHTING BRANCH CIRCUITS SHALL BE DEMOLISHED BACK TO POINT OF ORIGINATION U.O.N. E.C. SHALL COORDINATE ALL WORK IN FIELD PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
6. E.C. SHALL REMOVE EXISTING CEILING MOUNTED DEVICES FROM THEIR INSTALLED LOCATIONS FOR DEMOLITION OF CEILINGS AND REMAIN CONNECTED TO SYSTEM. E.C. SHALL SUPPORT ALL DEVICES FROM BUILDING STRUCTURE WITH WIRE DURING DEMOLITION AND NEW WORK PORTIONS OF PROJECT UNTIL DEVICES ARE REINSTALLED IN THEIR LOCATIONS. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
7. E.C. SHALL DE-ENERGIZE, DISCONNECT, AND SAFEGUARD EXISTING RECEPTACLES IN THIS SPACE FOR REWORK IN NEW WORK PORTION OF PROJECT. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH EXISTING CONDITIONS AND OWNERS REPRESENTATIVE.
8. E.C. SHALL DE-ENERGIZE, DISCONNECT, AND SAFEGUARD EXISTING EXTERIOR LIGHTING CONTROLS FOR RELOCATION IN NEW WORK PORTION OF PROJECT.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone 302.738.7172
Fax 302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone 267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

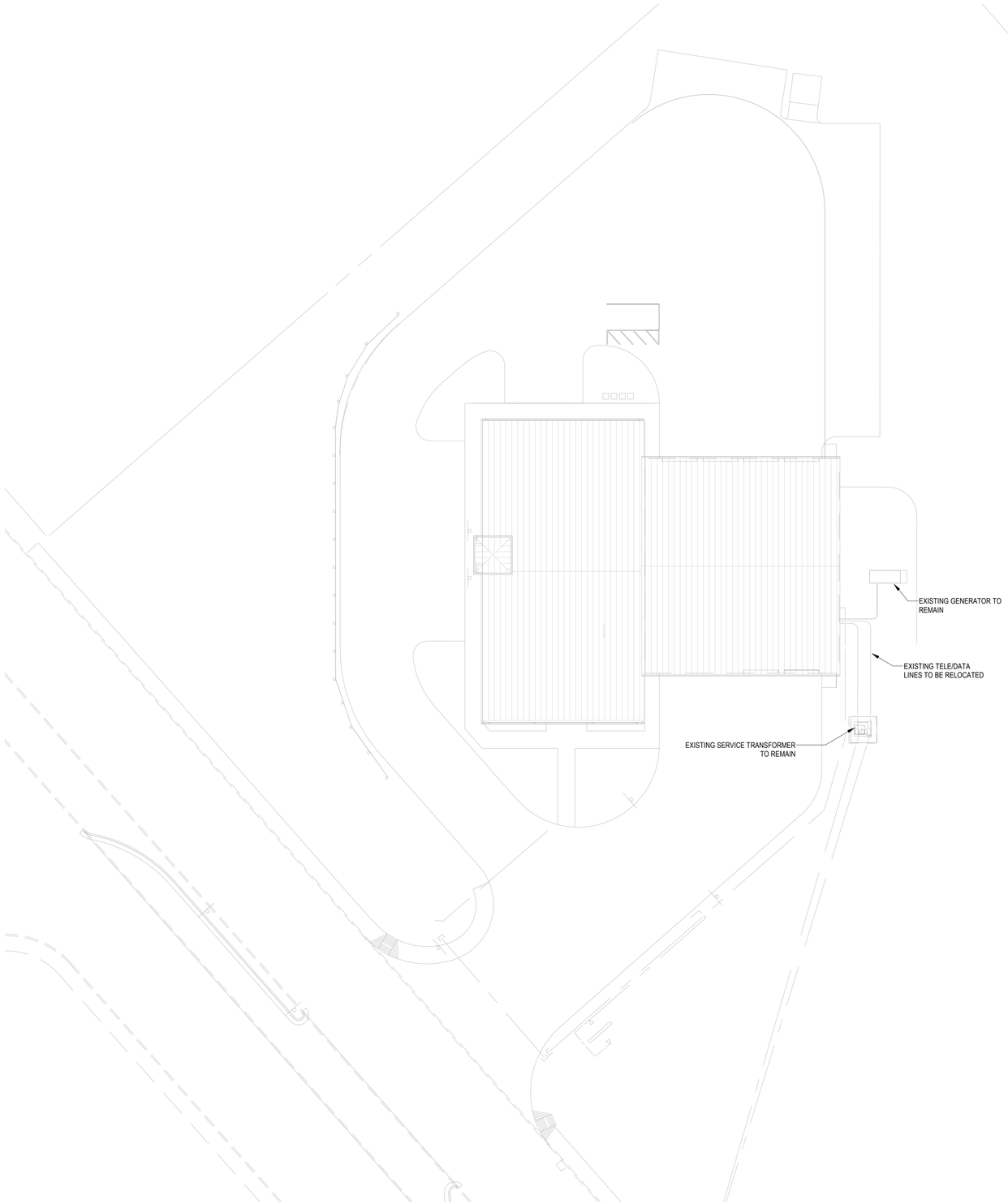
SHEET REVISION SCHEDULE:
No. DATE

FIRST FLOOR AND MEZZANINE ELECTRICAL PARTIAL DEMOLITION PLAN

SHEET
ED-101

4/17/2026 1:58:31 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 E-101 ELECTRICAL SITE PLAN
1" = 20'-0"

GENERAL SITE PLAN NOTES

1. ALL ITEMS SHOWN DARK AND SOLID ARE NEW WORK. ALL ITEMS SHOWN LIGHT AND SOLID ARE EXISTING TO REMAIN.
2. ALL TRENCHING SHOWN ON PLANS IS DIAGRAMMATICAL. E.C. SHALL COORDINATE ALL TRENCHING IN FIELD.
3. E.C. SHALL UTILIZE THE SERVIES OF SOFT-DIG TO SCAN UNDERGROUND FOR EXISTING UTILITIES BEFORE TRENCHING COMMENCES.
4. E.C. SHALL FURNISH AND INSTALL ALL PULLBOXES AND MANHOLES AS REQUIRED IN FIELD. E.C. SHALL COORDINATE ALL QUANTITIES AND LOCATIONS IN FIELD WITH EXISTING CONDITIONS AND EXACT CONDUIT ROUTING.
5. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 3'-0" B.F.G. AS MEASURED TO TOP OF CONDUIT E.C. SHALL UTILIZE RED METALLIC MARKER TAPE AT A MAXIMUM OF 12" B.F.G. CENTERED OVERTOP OF CONDUITS IN ALL TRENCHES. E.C. SHALL COORDINATE ALL WORK IN FIELD.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286
www.dedc-eng.com

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · NO. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

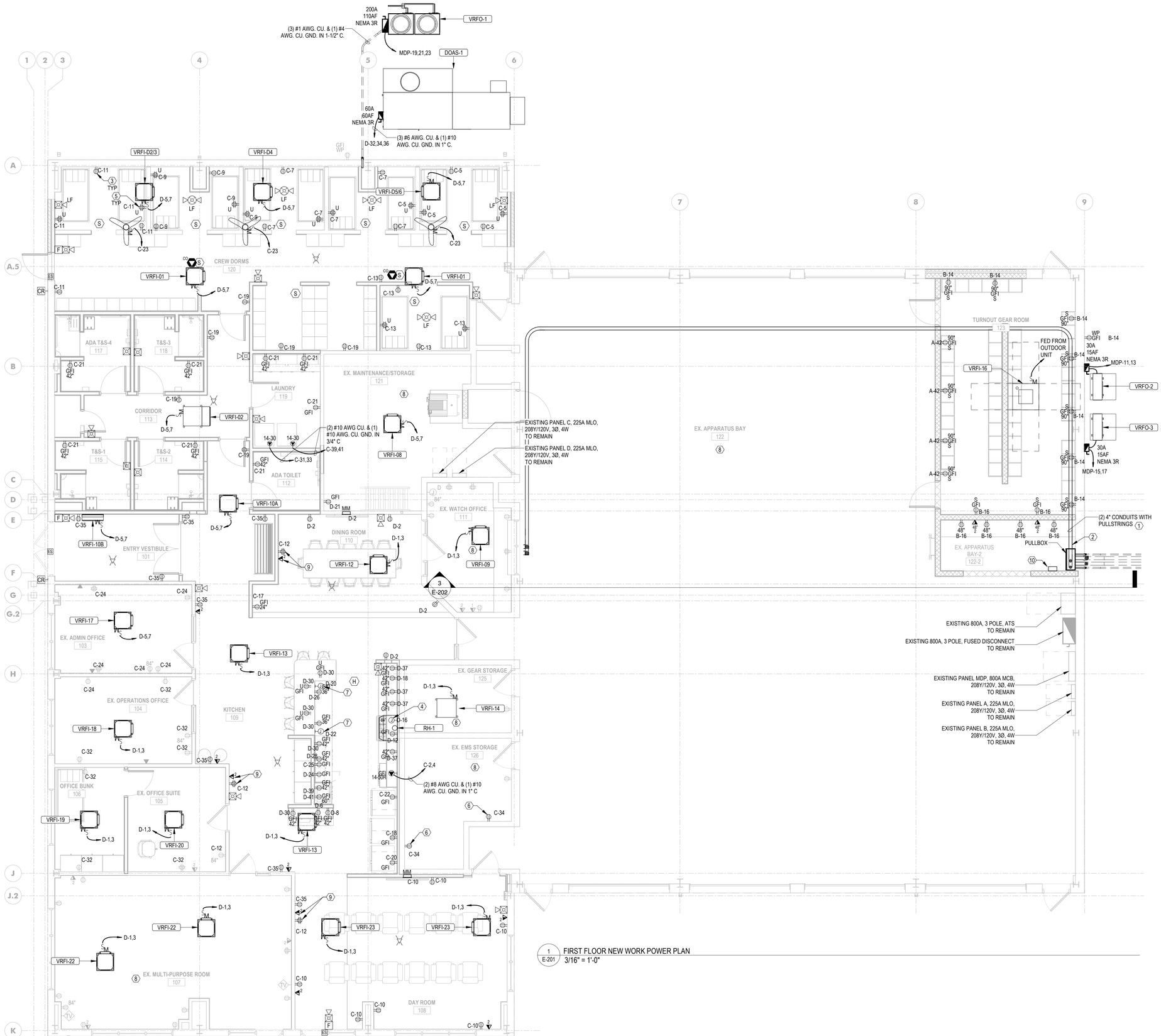
SHEET REVISION SCHEDULE:
No. DATE

ELECTRICAL SITE PLAN

SHEET
E-101

4/17/2026 1:58:33 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 E-201 FIRST FLOOR NEW WORK POWER PLAN
3/16" = 1'-0"

GENERAL POWER NOTES

1. E.C. SHALL COORDINATE ALL DEVICE LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWING AND OWNER'S ONSITE REPRESENTATIVE BEFORE WORK COMMENCES.
2. ALL ITEMS SHOWN DARK AND SOLID REPRESENTS NEW WORK TO BE FURNISHED AND FULLY INSTALLED BY ELECTRICAL CONTRACTOR. ALL ITEMS SHOWN LIGHT AND SOLID REPRESENT EQUIPMENT AND WORK TO BE PERFORMED BY ANOTHER TRADE.
3. E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORY EQUIPMENT REQUIRED, BUT NOT PROVIDED WITH EQUIPMENT, TO MAKE SYSTEMS AND EQUIPMENT FULLY COMPLETE AND 100% OPERATIONAL.
4. ALL RECEPTACLES SHOWN AS GFCI THAT CANNOT BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION FOR RESET FUNCTIONALITY SHALL BE FURNISHED AS A STANDARD RECEPTACLE FED FROM A GFCI TYPE BREAKER.
5. E.C. SHALL REFER TO DRAWING E-000 FOR LEGEND INFORMATION.
6. ALL LOW-VOLTAGE TELE/DATA WIRING, LOW-VOLTAGE WIRING DEVICES, COVERPLATES, HEAD-END EQUIPMENT, DATA RACKS AND OTHER EQUIPMENT ASSOCIATED WITH SECURITY AND TELE/DATA SYSTEMS INSTALLATIONS SHALL BE FURNISHED AND INSTALLED BY OWNER'S IT/SECURITY VENDOR/CONTRACTORS. E.C. SHALL BE RESPONSIBLE FOR INSTALLING J-HOOKS ABOVE CEILING AND CONDUIT STUB-UPS TO ABOVE CEILING FROM WALL MOUNTED LOW-VOLTAGE BOXES. E.C. SHALL FURNISH AND INSTALL CONDUITS WITH PULLSTRINGS.
7. E.C. SHALL ENSURE ALL LOW-VOLTAGE, DATA, AND COAX CABLE THAT CROSSES ANY EXPOSED CEILING SHALL BE INSTALLED IN EMT.
8. PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. EXTERIOR CONDUIT PENETRATIONS SHALL BE FITTED WITH A PIPE SLEEVE AND LINK SEAL. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.
9. ALL COMMUNICATIONS DEVICES SAFEGUARDED IN DEMOLITION PORTION OF PROJECT SHALL BE RE-INSTALLED IN NEW CEILINGS AND WALLS AND SHALL BE RECONNECTED TO THE SYSTEM. E.C. SHALL COORDINATE ALLDEVICE LOCATIONS WITH OWNERS REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
10. E.C. SHALL FURNISH AND INSTALL ALL PULLBOXES AND MANHOLES AS REQUIRED IN FIELD. E.C. SHALL COORDINATE ALL QUANTITIES AND LOCATIONS IN FIELD WITH EXISTING CONDITIONS AND EXACT CONDUIT ROUTING. E.C. SHALL SIZE ALL PULLBOXES IN ACCORDANCE WITH NEC ARTICLE 314.
11. E.C. SHALL PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.

KEYNOTES

1. E.C. SHALL EXTEND EXISTING TELE/DATA FEEDS TO REFEED RELOCATED TELE/DATA DEVICES. E.C. SHALL CREATE NEW PENETRATIONS FOR NEW CONDUIT.
2. E.C. SHALL ROUTE NEW TELE/DATA CONDUITS TO NEW TELE/DATA ROOM. E.C. SHALL COORDINATE ALL ROUTING IN FIELD WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. CONDUIT ROUTING SHOWN IS DIAGRAMATIC FOR REFERENCE PURPOSES ONLY.
3. ALL CIRCUITS IN CREW DORMS SHALL BE FURNISHED AND INSTALLED WITH AFCI BREAKERS.
4. E.C. SHALL FURNISH AND INSTALL A JUNCTION BOX MOUNTED RECESSED FLUSH WITH FACE OF WALL FOR POWER TO KITCHEN EXHAUST HOOD. E.C. SHALL FURNISH AND INSTALL ALL WIRING AS SHOWN FOR EXHAUST HOOD CONNECTIONS TO FIRE ALARM SYSTEM AND SHUNT TRIP CIRCUIT BREAKER FEEDING STOVE. E.C. SHALL COORDINATE ALL WORK WITH INSTALLATION DETAIL ON DRAWING E-602
5. E.C. SHALL COORDINATE ALL MOUNTING HEIGHTS FOR BUNK RECEPTACLES WITH FURNITURE. ALL RECEPTACLES SHALL BE READILY ACCESSIBLE.
6. E.C. SHALL FURNISH AND INSTALL (2) SURFACE MOUNTED RECEPTACLES IN EX. EMS STORAGE ROOM.
7. E.C. SHALL FURNISH AND INSTALL A JUNCTION BOX MOUNTED RECESSED FLUSH WITH FACE OF WALL FOR POWER TO KITCHEN DISHWASHERS. E.C. SHALL COORDINATE EXACT LOCATION IN FIELD.
8. E.C. SHALL SAFEGUARD EXISTING RECEPTACLE CIRCUITS IN AREAS EXISTING TO REMAIN. E.C. SHALL REWORK EXISTING BRANCH CIRCUITS AFFECTED BY DEMOLITION WORK TO FEED EXISTING TO REMAIN LOADS FROM LOCAL CIRCUITS. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH EXISTING CONDITIONS.
9. E.C. SHALL FURNISH AND INSTALL (1) QUAD RECEPTACLE AND (1) DATA DROP PER APS MONITOR. E.C. SHALL COORDINATE EXACT LOCATIONS IN FIELD WITH OWNERS REPRESENTATIVE.
10. E.C. SHALL RELOCATE EXISTING EXTERIOR LIGHTING CONTROLS TO NEW LOCATIONAND INDICATED. E.C. SHALL COORDINATE ALL EXTENSIONS OF RUNS AND FINAL LOCATIONS WITH EXISTING CONDITIONS AND OWNERS REPRESENATIVE.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

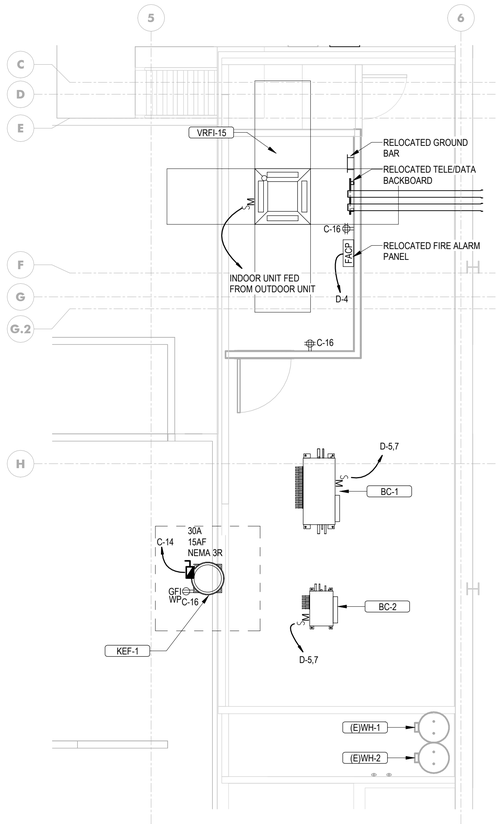
SHEET REVISION SCHEDULE:
No. DATE

FIRST FLOOR NEW WORK POWER PLAN

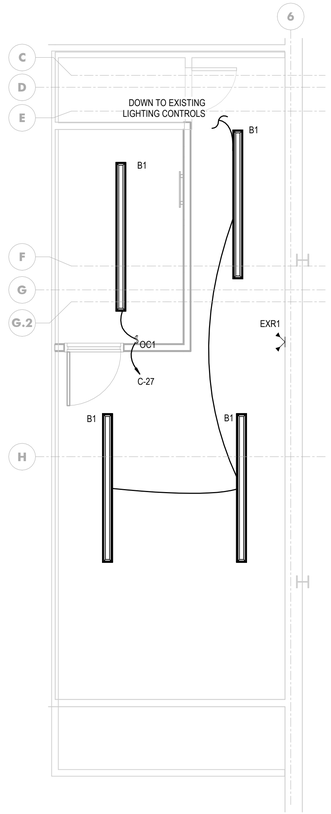
SHEET
E-201

4/17/2026 1:58:37 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 E-202 MEZZANINE NEW WORK POWER PLAN
1/4" = 1'-0"



2 E-202 MEZZANINE NEW WORK LIGHTING PLAN
1/4" = 1'-0"



3 E-202 CONDUIT ROUTING ELEVATION
1/4" = 1'-0"

GENERAL POWER NOTES

1. E.C. SHALL COORDINATE ALL DEVICE LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWING AND OWNER'S ONSITE REPRESENTATIVE BEFORE WORK COMMENCES.
2. ALL ITEMS SHOWN DARK AND SOLID REPRESENTS NEW WORK TO BE FURNISHED AND FULLY INSTALLED BY ELECTRICAL CONTRACTOR. ALL ITEMS SHOWN LIGHT AND SOLID REPRESENT EQUIPMENT AND WORK TO BE PERFORMED BY ANOTHER TRADE.
3. E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORY EQUIPMENT REQUIRED, BUT NOT PROVIDED WITH EQUIPMENT, TO MAKE SYSTEMS AND EQUIPMENT FULLY COMPLETE AND 100% OPERATIONAL.
4. ALL RECEPTACLES SHOWN AS GFCI THAT CANNOT BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION FOR RESET FUNCTIONALITY SHALL BE FURNISHED AS A STANDARD RECEPTACLE FED FROM A GFCI TYPE BREAKER.
5. E.C. SHALL REFER TO DRAWING E-000 FOR LEGEND INFORMATION.
6. ALL LOW-VOLTAGE TELE/DATA WIRING, LOW-VOLTAGE WIRING DEVICES, COVERPLATES, HEAD-END EQUIPMENT, DATA RACKS AND OTHER EQUIPMENT ASSOCIATED WITH SECURITY AND TELE/DATA SYSTEMS INSTALLATIONS SHALL BE FURNISHED AND INSTALLED BY OWNER'S IT/SECURITY VENDOR/CONTRACTORS. E.C. SHALL BE RESPONSIBLE FOR INSTALLING J-HOOKS ABOVE CEILING AND CONDUIT STUB-UPS TO ABOVE CEILING FROM WALL MOUNTED LOW-VOLTAGE BOXES. E.C. SHALL FURNISH AND INSTALL CONDUITS WITH PULLSTRINGS.
7. E.C. SHALL ENSURE ALL LOW-VOLTAGE, DATA, AND COAX CABLE THAT CROSSES ANY EXPOSED CEILING SHALL BE INSTALLED IN EMT.
8. PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. EXTERIOR CONDUIT PENETRATIONS SHALL BE FITTED WITH A PIPE SLEEVE AND LINK SEAL. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.
9. ALL COMMUNICATIONS DEVICES SAFEGUARDED IN DEMOLITION PORTION OF PROJECT SHALL BE RE-INSTALLED IN NEW CEILINGS AND WALLS AND SHALL BE RECONNECTED TO THE SYSTEM. E.C. SHALL COORDINATE ALLDEVICE LOCATIONS WITH OWNERS REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
10. E.C. SHALL FURNISH AND INSTALL ALL PULLBOXES AND MANHOLES AS REQUIRED IN FIELD. E.C. SHALL COORDINATE ALL QUANTITIES AND LOCATIONS IN FIELD WITH EXISTING CONDITIONS AND EXACT CONDUIT ROUTING. E.C. SHALL SIZE ALL PULLBOXES IN ACCORDANCE WITH NEC ARTICLE 314.
11. E.C. SHALL PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.

KEYNOTES

1. E.C. SHALL EXTEND EXISTING TELE/DATA FEEDS TO REFEED RELOCATED TELE/DATA DEVICES. E.C. SHALL CREATE NEW PENETRATIONS FOR NEW CONDUIT.
2. E.C. SHALL ROUTE NEW TELEDATA CONDUITS TO NEW TELE/DATA ROOM. E.C. SHALL COORDINATE ALL ROUTING IN VIEW WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. CONDUIT ROUTING SHOW IS DIAGRAMATIC FOR REFERENCE PURPOSES ONLY.
3. E.C. SHALL EXTEND EXISTING TELE/DATA FEEDS TO REFEED RELOCATED TELE/DATA DEVICES. E.C. SHALL CREATE NEW PENETRATIONS FOR NEW CONDUIT.
4. E.C. SHALL COORDINATE ALL PENETRATION LOCATIONS WITH EXISTING CONDITIONS AND OWNERS REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. E.C. SHALL MINIMIZE ALL PENETRATIONS IN EXISTING TO REMAIN WALLS.

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

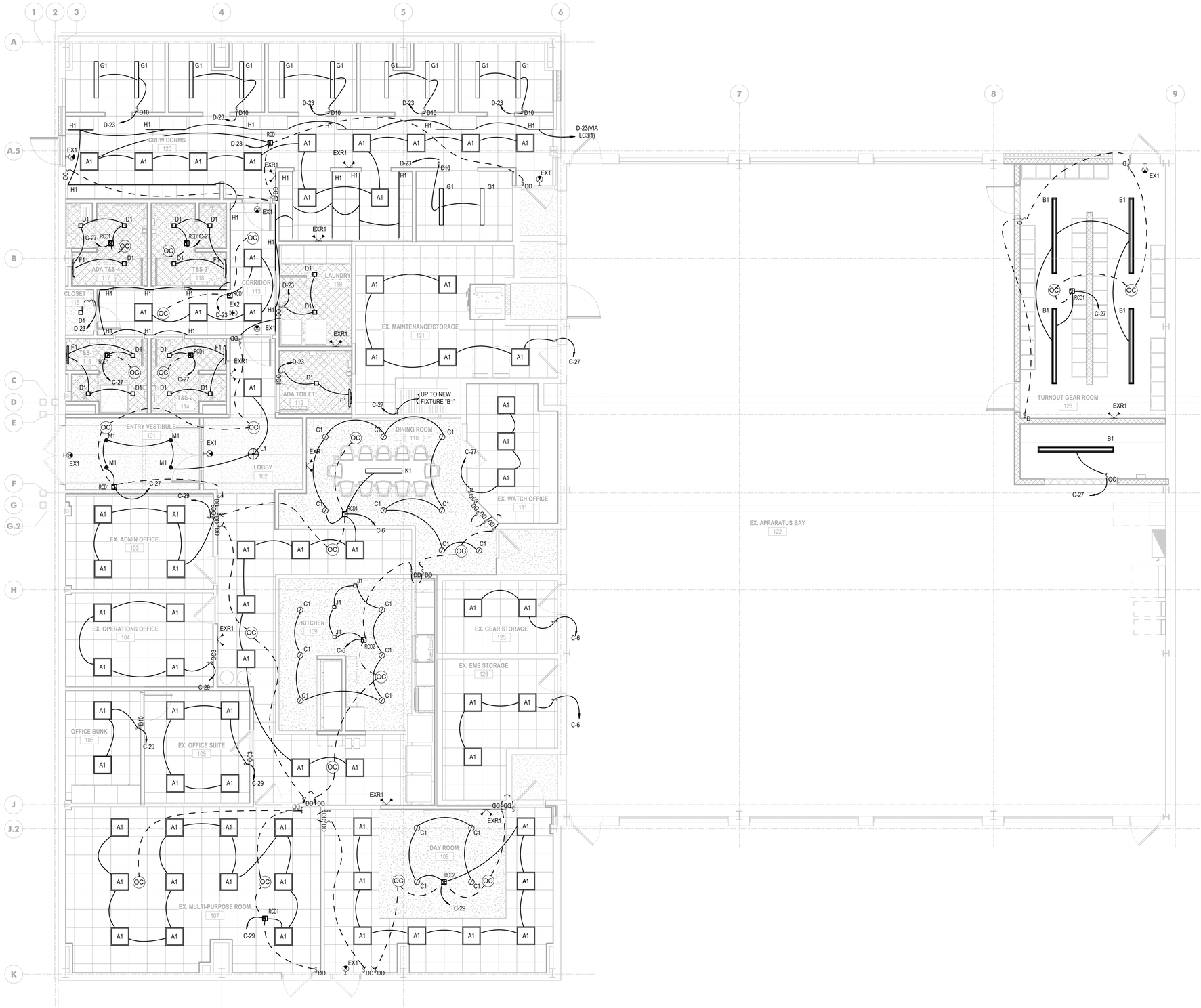
MEZZANINE NEW WORK POWER AND LIGHTING PLANS

SHEET

E-202

4/17/2026 1:58:43 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



1 E-301 FIRST FLOOR NEW WORK LIGHTING PLAN
3/16" = 1'-0"

GENERAL LIGHTING NOTES

1. ALL LIGHTING INSTALLED IN PATHS OF EGRESS THAT ARE CONTROLLED BY OCCUPANCY SENSORS SHALL HAVE A FIRE ALARM CONTROL MODULE FURNISHED, INSTALLED, AND WIRED INTO THE LIGHTING CONTROLLER TO AUTOMATICALLY PUSH LIGHTING TO 100% ON IN EVENT OF FIRE ALARM SYSTEM ACTIVATION. E.C. SHALL FURNISH AND INSTALL A LMIO-100 INTERFACE DEVICE TO WORK WITH THE LIGHTING CONTROL SYSTEM AND FIRE ALARM SYSTEM INPUT. E.C. SHALL INSTALL ALL WIRING AND DEVICES PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2. ALL LIGHTS LABELED "EM" SHALL BE FURNISHED WITH AN EXTRA #12 AWG WIRE FED UNSWITCHED FROM LIGHTING CIRCUIT FEEDING FIXTURE FOR CORRECT EMERGENCY OPERATION.
3. ALL ROOM CONTROLLERS AND OCCUPANCY SENSORS SHALL BE SET FOR 20 MIN. MAX VACANCY TIME.
4. E.C. SHALL COORDINATE MOUNTING HEIGHTS OF ALL LIGHT FIXTURES AND EXIT SIGNS IN FIELD WITH CEILING TYPES AND MECHANICAL EQUIPMENT.
5. ALL WIRING SHOWN DASHED FROM ROOM CONTROLLERS REPRESENT LOW VOLTAGE CAT-5E WIRING. ALL DARK SOLID LINES SHOWN FROM ROOM CONTROLLERS REPRESENTS LINE VOLTAGE SWITCH LEGS. IF MULTIPLE SWITCH LEGS ARE SHOWN FROM ROOM CONTROLLER EACH IS FED FROM A SEPARATE RELAY INTEGRAL TO THE CONTROLLER, AS SUCH, EACH RELAY SHALL BE CONTROLLED BY ITS OWN MANUAL CONTROL DEVICE, IF PRESENT IN THE AREA, AND SHALL BE PROGRAMMED TO BE OVERALL CONTROLLED BY THE OCCUPANCY SENSOR AS SHOWN IN LIGHTING CONTROL SCHEDULE.
6. ALL LIGHTING FIXTURES SHALL BE FED FROM A JUNCTION BOX WITH 6' WHIPS.
7. ROOM CONTROLLERS ARE SHOWN IN THEIR LOCATIONS FOR CIRCUITING CLARITY. E.C. SHALL FURNISH AND INSTALL ALL ROOM CONTROLLERS ABOVE CEILING.
8. ALL LOCATIONS SHOWN WITH MULTIPLE SWITCHES SHALL BE INSTALLED IN A MULTI-GANG BOX FOR QUANTITY OF DEVICES AS SHOWN ON PLANS. E.C. SHALL COORDINATE ALL LOCATIONS AND QUANTITIES WITH ELECTRICAL AND ARCHITECTURAL DRAWINGS.

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

FIRST FLOOR NEW WORK LIGHTING PLAN

SHEET
E-301

4/17/2026 1:58:50 PM

LIGHTING FIXTURES SCHEDULE

TAG	WATTS	VOLTS	LAMP	TEMP (KELVIN)	MODEL (OR APPROVED EQUAL)	DESCRIPTION	COMMENTS
A1	42W	120V	LED	3500 K	COOPER LIGHTING / 22CZ2-32-UNV-L93S-CD-1	2'x2' ARCHITECTURAL TROFFER LED FIXTURE, ALUMINUM HOUSING, WHITE FINISH, WHITE ACRYLIC LENS, 0-10V ELECTRONIC DIMMING DRIVER	
B1	63W	120V	LED	4000 K	ILP / WTZ8-8L-U-40-RAFL-SS	8' LINEAR FULLY ENCLOSED AND GASKETED FIXTURE, STAINLESS STEEL LATCHES, TAMPER PROOF SCREWS, RIBBED FROSTED ACRYLIC LENS, IP66 RATED WET LOCATION LISTED	FIXTURE SHALL BE MOUNTED AT 8'-0" A.F.F. AS MEASURED TO BOTTOM OF FIXTURE. E.C. SHALL COORDINATE ALL HEIGHTS IN FIELD WITH OWNER/OWNER'S ONSITE REPRESENTATIVE.
C1	31W	120V	LED	3500 K	ELITE / HH6-LED-2000L/2500L/3000L-DIM10-MVOLT-MD-27K/30K/35K/40K/50K-90-HH6-6501-CL-W	6" Ø LED DOWNLIGHT, STEEL MOUNTING FRAME, DIE CAST ALUMINUM HEATSINK, INTERCHANGABLE OPTICS, 0-10V ELECTRONIC DIMMING DRIVER	
D1	27W	120V	LED	3500 K	ELITE / HH6SQ-LED-1000L/1500L/2000L-DIM10-MVOLT-MD-27K/30K/35K/40K/50K-90-MOS-6614-CL-WH	6" SQUARE LED DOWNLIGHT, STEEL MOUNTING FRAME, DIE CAST ALUMINUM HEATSINK, INTERCHANGABLE OPTICS, 0-10V ELECTRONIC DIMMING DRIVER	
EX1	3W	120V / 6VDC	LED		EVENLITE / TCXCOM-R-U-W-SD & TCRH2	SINGLE FACE COMBINATION THERMOPLASTIC EXIT SIGN, RED LETTERING,WALL MOUNTED, 90 MINUTE MINIMUM EMERGENCY OPERATION, CHEVRON ARROWS (AS NECESSARY), WHITE FINISH	EXIT SIGNS SHALL BE MOUNTED CENTERED OVER EGRESS DOORS.
EX2	3W	120V / 6VDC	LED		EVENLITE / TLX-EM-RU-W-SD-	SINGLE FACE THERMOPLASTIC EXIT SIGN, RED LETTERING, CEILING MOUNTED, 90 MINUTE MINIMUM EMERGENCY OPERATION, CHEVRON ARROWS (AS NECESSARY), WHITE FINISH	
EXR1	1W	120V / 6VDC	LED		EVENLITE / TCRH2	EMERGENCY REMOTE HEAD, DUAL LED HEAD, WHITE THERMOPLASTICE HOUSING, 90 MINUTE MINIMUM EMERGENCY OPERATION	<varies>
F1	14W	120V	LED	3500 K	OXYGEN / 3-547-3524	24" LINEAR VANITY FIXTURE, UNIVERSAL 0-10V DIMMING ELECTRONIC DRIVER, PLATED STEEL CONSTRUCTION, MATTE WHITE ACRYLIC DIFFUSER, SATIN NICKEL FINISH	FIXTURE SHALL BE MOUNTED ABOVE MIRROR, COORDINATE EXACT LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWINGS.
G1	26W	120V	LED	3500 K	ELITE / OLS-R-LED-4-TB-SG-S-4'-750L-DIM10-MVOLT-3500K-90-WH	4' LINEAR RECESSED LED FIXTURE, ALUMINUM HOUSING, SMOOTH WHITE FROSTED ACRYLIC LENS, GRID MOUNTED, WHITE FINISH, 0-10V ELECTRONIC DIMMABLE DRIVER.	
H1	4.4W/FT	120V	LED	2700 K	TARGETTI / DL-ED-44-I-27-HC024-A-DL-ALUM-U-8-DELI801241CPWM	36 LED/FT TAPELIGHT, FACTORY PREPPED ENDS, REMOTE POWER SUPPLY, ALUMINUM MOUNTING CHANNEL, FIELD CUTTABLE	E.C. SHALL TAKE-OFF ALL LENGTHS OF TAPELIGHT FROM DRAWINGS AND SHALL CONFIRM LENGTHS IN FIELD WITH ACTUAL LIGHT FIXTURE LOCATION DIMENSIONS. E.C. TO PROVIDE ADEQUATE NUMBER OF DRIVERS FOR TAPELIGHT OPERATION. E.C. SHALL MOUNT TAPELIGHT ON TOE KICK OF LOCKERS.
J1	8W	120V	LED	3500 K	HINKLEY / 39057BK	9'Ø LED PENDANT FIXTURE, STEEL HOUSING, BLACK WITH BRASS FINISH. VARIABLE STEM. LAMP NOT INCLUDED. ETCHED OPAL CANOPY	COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS, E.C. SHALL FURNISH AND INSTALL (1) DIMMABLE LED LAMP FOR EACH FIXTURE.
K1	32W	120V	LED	3500 K	OXYGEN / DECCA-3-48-1540	4' LINEAR PENDANT FIXTURE, AGED BRASS FINISH, LED DRIVER, INTEGRAL AIRCRAFT CABLE, FLUSH CEILING MOUNT.	COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS, COORDINATE ALL CONNECTIONS TO FIXTURE IN FIELD.
L1	30W	120V	LED	3500 K	HARMONIZED HOME / LCH283A24BKB	23-3/4"Ø ROUND PENDANT FIXTURE, SILICONE RUBBER LENS, ADJUSTABLE MOUNTING HEIGHT, DIMMABLE LED DRIVER, FLUSH MOUNTED TO CEILING	COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS, E.C. SHALL FURNISH AND INSTALL (1) COMPATIBLE DIMMABLE LED DRIVER PER FIXTURE.
M1	20W	120V	LED	3500 K	ACON / 12315-14L-BK-B45-HL	2" ROUND SUSPENDED PENDANT FIXTURE, 8-1/4" TALL, STEEL HOUSING, CANOPY MOUNT, ADJUSTABLE FIELD CORD, DIMMING LED DRIVER, HEX CELL LOUVER, SELECTABLE COLOR TEMPERATURE.	COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS, E.C. SHALL FURNISH AND INSTALL (1) COMPATIBLE DIMMABLE LED DRIVER PER FIXTURE.

GENERAL PANEL SCHEDULE NOTES

1. ALL ITEMS SHOWN DARK ON PANEL SCHEDULE REPRESENT CHANGES TO EXISTING CIRCUITS.
2. ALL BREAKERS MARKED *** SHALL BE FURNISHED AND INSTALLED WITH A GFCI TYPE CIRCUIT BREAKER, SIZE AS DENOTED.
3. ALL BREAKERS MARKED *** SHALL BE FURNISHED AND INSTALLED WITH AN AFCI TYPE CIRCUIT BREAKER, SIZE AS DENOTED.

KEYNOTES

1. E.C. SHALL TRACE EXISTING CIRCUITS MARKED SPARE TO THEIR TERMINATIONS TO DETERMINE ANY ABANDONED OR SPARE BREAKERS. ALL ABANDONED BRANCH FEEDERS SHALL BE DE-ENERGIZED AND DEMOLISHED BACK TO POINT OF ORIGINATION. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH EXISTING CONDITIONS PRIOR TO DEMOLITION.
2. E.C. SHALL PROVIDE SPARE 20A, 1P BREAKERS FOR ALL CIRCUITS IDENTIFIED AS ABANDONED AND DEMOLISHED DURING DEMOLITION PORTION OF PROJECT. E.C. SHALL UPDATE PANEL SCHEDULE TO REFLECT ANY NEW SPARE BREAKERS.

Panel: MDP (EXISTING)

Location: EX. APPARATUS BAY-1... **Volts:** 208Y/120 **A.I.C. Rating:** 65kA
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 800.0 A
Enclosure: Indoor **MCB Rating:** 800.0 A

Notes:

Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description
SPACE	--	1	1	1	2	--	SPACE
SPACE	--	3	1	1	4	--	SPACE
SPACE	--	5	1	1	6	--	SPACE
SPACE	--	7	1	1	8	--	SPACE
SPACE	--	9	1	1	10	--	SPACE
SPACE	**--**	**11**	**1**	1	12	--	SPACE
SPACE	**--**	**13**	**1**		14		
SPACE	**--**	**15**	**1**	3	16	100 A	SPARE
SPACE	**--**	**17**	**1**		18		
		19			20		
SPARE	**225 A**	21	3	3	22	225 A	PANEL B
		23			24		
		25			26		
PANEL C	225 A	27	3	3	28	225 A	PANEL A
		29			30		
		31			32		
PANEL D	225 A	33	3	3	34	225 A	SPARE
		35			36		
		37			38		
SPARE	400 A	39	3	3	40	225 A	SPARE
		41			42		
		43			44		
SPARE	400 A	45	3	3	46	225 A	SPARE
		47			48		

Notes:

Panel: A (EXISTING) ①②

Location: EX. APPARATUS BAY-1... **Volts:** 208Y/120 **A.I.C. Rating:** 10kA
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225.0 A
Enclosure: Indoor **MCB Rating:** 225.0 A

Notes:

Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description
LTG: APPARATUS BAY	20 A	1	1	1	2	20 A	RECEPTACLE HAZHAT CL.
LTG: APPARATUS BAY	20 A	3	1	1	4	20 A	SPARE (BREAKER ON)
LTG: APPARATUS BAY	20 A	5	1	1	6	20 A	**SPARE (BREAKER ON)**
LTG: APPARATUS BAY	20 A	7	1	1	8	20 A	**SPARE (BREAKER ON)**
LTG: APPARATUS BAY	20 A	9	1	1	10	20 A	**SPARE (BREAKER ON)**
EXT. DOOR LIGHTS: FRONT ENT., GYM,...	20 A	11	1	2	12	30 A	SPARE (BREAKER ON)
LTG: EMERGENCY EXIT	20 A	13	1		14		
PHOTO CTRL. + ENGINE RM. MAIN DOOR LTGS	20 A	15	1	1	16	20 A	GENERATOR BLOCK HEATER
WALL PACKS ENGINE RM. EXT. LTGS	20 A	17	1	1	18	20 A	GENERATOR BATTERY CHARGER
POLE, SIGN, FLAG LIGHTS	20 A	19	2	1	20	20 A	FIRE ALARM EXTENDER PANEL
		21		1	22	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	23	1	1	24	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	25	1	2	26	50 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	27	1		28		
LTG: APPARATUS BAY	20 A	29	1	1	30	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	50 A	31	2	1	32	20 A	SPARE (BREAKER ON)
		33		1	34	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	35	1	2	36	30 A	SPARE (BREAKER ON)
ATC PANEL	20 A	37	1		38		
SPARE (BREAKER ON)	20 A	39	2	1	40	20 A	EXHAUST FAN CONTROL
		41		1	42	--	SPACE

Notes:

Panel: B (EXISTING) ①②

Location: EX. APPARATUS BAY-1... **Volts:** 208Y/120 **A.I.C. Rating:** 10kA
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225.0 A
Enclosure: Indoor **MCB Rating:** 225.0 A

Notes:

Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description
		1		1	2	20 A	RECEPTACLE: APPARATUS BAY
WASHER / EXTRACT	30 A	3	3	1	4	20 A	RECEPTACLE: APPARATUS BAY
		5		1	6	20 A	RECEPTACLE: APPARATUS BAY
RAD. HEAT	20 A	7	1	1	8	20 A	SPARE (BREAKER ON)
RAD. HEAT	20 A	9	1	1	10	20 A	RECEPTACLE: APPARATUS BAY
RAD. HEAT	20 A	11	1	1	12	20 A	FIRE ALARM
		13		1	14	20 A	**LIGHTS - STORAGE**
EF - 3	30 A	15	3	1	16	20 A	**TELEPHONE RECEPTACLE**
		17		1	18	20 A	TANK ALARM PAD
		19		1	20	20 A	SPARE (BREAKER ON)
EF - 2	30 A	21	3	3	22	50 A	H - V - 1 HEATER
		23			24		
		25			26		
CORD REEL BAY 1 + 8	20 A	27	1	1	28	20 A	CONTROL:FANS
CORD REEL BAY 2 + 7	20 A	29	1	2	30	30 A	AIR COMPRESSOR
CORD REEL BAY 3 + 6	20 A	31	1		32		
CORD REEL BAY 4 + 5	20 A	33	1	1	34	20 A	UNKNOWN LOAD (BREAKER ON)
MOTORIZED OVERHEAD DOOR (#6)	20 A	35	1	1	36	20 A	RECEPTACLE: APPARATUS BAY
MOTORIZED OVERHEAD DOOR (#7-8)	20 A	37	1	1	38	20 A	MOTORIZED OVERHEAD DOOR (#4)
MOTORIZED OVERHEAD DOOR (#5)	20 A	39	1	1	40	20 A	MOTORIZED OVERHEAD DOOR (#2-3)
RED ALARM LIGHTS (BREAKER OFF)	20 A	41	1	1	42	20 A	ALERT SYSTEM AMPLIFIER

Notes:

Panel: C (EXISTING) ①②

Location: EX.... **Volts:** 208Y/120 **A.I.C. Rating:** 10kA
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225.0 A
Enclosure: Indoor **MCB Rating:** 225.0 A

Notes:

Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description
RECPT. FITNESS CENTER	20 A	1	1	1	2	20 A	**LGT. FITNESS/BUNK**
RECPT. FITNESS CENTER	20 A	3	1	1	4	20 A	**LGT. WATCH/CORR #1/SINK**
RECPT. BUNK	20 A	5	1	1	6	20 A	**LGT. MENS/WOMANS LOCKER**
RECPT. BUNK	20 A	7	1	1	8	20 A	RECPT. MAINT (DRYER)
RECPT. CORR #1 (EWC)	20 A	9	1	1	10	20 A	**LGT. LOBBY/LOBBY EXTERIOR**
RECPT. M/W LOCKER, CORR #1	20 A	11	1	1	12	20 A	**LGT. CORR #2/ADMIN/OPER/CONF. BR**
RECPT. LOBBY, CORR #2	20 A	13	1	1	14	20 A	**LGT. MULTI PURPOSE/KITCHEN**
RECPT. WATCH OFFICE	20 A	15	1	1	16	20 A	**LGT. GEAR/TLT/COPY/EMS/TOWER**
RECPT. WATCH OFFICE	20 A	17	1	1	18	20 A	**LGT. LOUNGE**
RECPT. MAINT. OFFICE	20 A	19	1	1	20	20 A	**RECPT. CORR #2/VENDING PPE DRYER**
RECPT. COPY OFFICE	20 A	21	1	1	22	20 A	**RECPT. CORR #2/VENDING**
RECPT. TLT, GEAR, EMS, STORAGE	20 A	23	1	1	24	20 A	**RECPT. CORR #2/VENDING**
RECPT. ADMIN OFFICE (BATTALION CHIEF)	20 A	25	1	1	26	20 A	RECPT. WATCH-EMERG. ALERT AMP
RECPT. OPERATION OFFICE	20 A	27	1	2	28	20 A	SPARE (BREAKER ON)
RECPT. CONFERENCE	20 A	29	1		30		
RECPT. MULTI-PURPOSE	20 A	31	1	**2**	32	20 A	**EUH - 1 PENTHOUSE**
RECPT. MULTI-PURPOSE	20 A	33	1		34		
RECPT. KITCHEN (MICRO)	20 A	35	1	2	36	20 A	EWH - 1 MP & LOUNGE
SPARE (BREAKER ON)	20 A	37	1		38		
RECPT. MAINT./STORAGE (DRYER)	20 A	39	**2**	2	40	20 A	EWH - 2 LOBBY & BUNK
		41			42		

Notes:

Panel: D (EXISTING) ①②

Location: EX.... **Volts:** 208Y/120 **A.I.C. Rating:** 10kA
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225.0 A
Enclosure: Indoor **MCB Rating:** 225.0 A

Notes:

Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description
RECEPT. KITCHEN & HOOD	20 A	1	1	1	2	20 A	**LGTG. EXIT LGTS.**
RECEPT. CLASSRM., CORR.-STORAGE...	20 A	3	1	1	4	20 A	**LGTG. MECH. PENTHOUSE**
RECEPT. CLASSRM.	20 A	5	1	1	6	20 A	**DISPOSAL KITCHEN**
RECEPT. KITCHEN (REFRIG.)	20 A	7	1	1	8	--	**SPACE**
RECEPT. SOUND EQUIPMENT	20 A	9	1	1	10	20 A	CONTROL DEHUMIDIFIER
RECEPT. SOUND EQUIP/RADIO	20 A	11	1	1	12	20 A	**BATHROOM EXHAUST**
RECEPT. MAINT. (ICE MACHINE)	20 A	13	1	2	14	15 A	**INDOOR SPLIT SYSTEM**
RECEPT. MECH. PENTHOUSE	20 A	15	1		16		
GAS WATER HEATER IGNITER	20 A	17	1	2	18	15 A	**INDOOR SPLIT SYSTEM**
ELEC. HAND DRYER TLT	20 A	19	1		20		
ELEC. HAND DRYER MEN (REMOVED)	20 A	21	1	2	22	60 A	**ACCU-1**
ELEC. HAND DRYER WOMEN	20 A	23	1		24		
P-1 & P-2	20 A	25	1	2	26	40 A	**ACCU-2**
F-1 & MOD	20 A	27	1		28		
F-2 & MOD	20 A	29	1	2	30	20 A	**ACCU-3**
F-3 & MOD	20 A	31	1		32		
F-4 & MOD	20 A	33	1	2	34	40 A	**OUTSIDE SPLIT SYSTEM**
ZONE DAMPER CONTROLLER	20 A	35	1		36		
DISHWASHER	20 A	37	1	2	38	60 A	**ACCU-4**
KITCHEN (COOK TOP)	20 A	39	2		40		
		41		1	42	--	SPACE

Notes:

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING / DESIGN / CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

ELECTRICAL PANEL SCHEDULES, LIGHTING SCHEDULE, AND NOTES

SHEET
E-601

4/17/2026 1:58:53 PM

Panel: MDP (NEW WORK) ①

Location: EX. APPARATUS BAY-1... **Volts:** 208Y/120 **A.I.C. Rating:** 65kA
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: Surface **Wires:** 4 **Mains Rating:** 800.0 A
Enclosure: Indoor **MCB Rating:** 800.0 A

Notes:

Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description
SPACE	--	1	1	1	2	--	SPACE
SPACE	--	3	1	1	4	--	SPACE
SPACE	--	5	1	1	6	--	SPACE
SPACE	--	7	1	1	8	--	SPACE
SPACE	--	9	1	1	10	--	SPACE
VRFO-2	**20 A**	**11**	**2**	1	12	--	SPACE
		13		3	14		
VRFO-3	**20 A**	**15**	**2**		16	100 A	SPARE
		17			18		
		19			20		
VRFO-1	**110 A**	21	3	3	22	225 A	PANEL B
		23			24		
		25			26		
PANEL C	225 A	27	3	3	28	225 A	PANEL A
		29			30		
		31			32		
PANEL D	225 A	33	3	3	34	225 A	SPARE
		35			36		
		37			38		
SPARE	225 A	39	3	3	40	225 A	SPARE
		41			42		
		43			44		
SPARE	225 A	45	3	3	46	225 A	SPARE
		47			48		

Notes:

Panel: A (NEW WORK) ①

Location: EX. APPARATUS BAY-1... **Volts:** 208Y/120 **A.I.C. Rating:** 10kA
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225.0 A
Enclosure: Indoor **MCB Rating:** 225.0 A

Notes:

Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description
LTG: APPARATUS BAY	20 A	1	1	1	2	20 A	RECEPTACLE HAZHAT CL.
LTG: APPARATUS BAY	20 A	3	1	1	4	20 A	SPARE (BREAKER ON)
LTG: APPARATUS BAY	20 A	5	1	1	6	20 A	SPARE (BREAKER ON)
LTG: APPARATUS BAY	20 A	7	1	1	8	20 A	SPARE (BREAKER ON)
LTG: APPARATUS BAY	20 A	9	1	1	10	20 A	SPARE (BREAKER ON)
EXT. DOOR LIGHTS: FRONT ENT., GYM,...	20 A	11	1	2	12	20 A	SPARE (BREAKER ON)
LTG: EMERGENCY EXIT	20 A	13	1		14		
PHOTO CTRL. + ENGINE RM. MAIN DOOR LTGS	20 A	15	1	1	16	20 A	GENERATOR BLOCK HEATER
WALL PACKS ENGINE RM. EXT. LTGS	20 A	17	1	1	18	20 A	GENERATOR BATTERY CHARGER
POLE, SIGN, FLAG LIGHTS	20 A	19	2	1	20	20 A	FIRE ALARM EXTENDER PANEL
		21		1	22	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	23	1	1	24	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	25	1	2	26	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	27	1		28		
LTG: APPARATUS BAY	20 A	29	1	1	30	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	31	2	1	32	20 A	SPARE (BREAKER ON)
		33		1	34	20 A	SPARE (BREAKER ON)
SPARE (BREAKER ON)	20 A	35	1	2	36	20 A	SPARE (BREAKER ON)
ATC PANEL	20 A	37	1		38		
SPARE (BREAKER ON)	20 A	39	2	1	40	20 A	EXHAUST FAN CONTROL
		41		1	42	20 A	**REC - TURNOUT GEAR ROOM**

Notes:

Panel: B (NEW WORK) ①

Location: EX. APPARATUS BAY-1... **Volts:** 208Y/120 **A.I.C. Rating:** 10kA
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225.0 A
Enclosure: Indoor **MCB Rating:** 225.0 A

Notes:

Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description
		1		1	2	20 A	RECEPTACLE: APPARATUS BAY
WASHER / EXTRACT	30 A	3	3	1	4	20 A	RECEPTACLE: APPARATUS BAY
		5		1	6	20 A	RECEPTACLE: APPARATUS BAY
RAD. HEAT	20 A	7	1	1	8	20 A	SPARE (BREAKER ON)
RAD. HEAT	20 A	9	1	1	10	20 A	RECEPTACLE: APPARATUS BAY
RAD. HEAT	20 A	11	1	1	12	20 A	FIRE ALARM
		13		1	14	20 A	**REC - TURNOUT GEAR ROOM, EXTERIOR**
EF - 3	30 A	15	3	1	16	20 A	**REC - TURNOUT GEAR ROOM, I.T. ROOM**
		17		1	18	20 A	TANK ALARM PAD
		19		1	20	20 A	SPARE (BREAKER ON)
EF - 2	30 A	21	3		22		
		23		3	24	50 A	H-V-1 HEATER
CORD REEL BAY 1 + 8	20 A	25	1		26		
CORD REEL BAY 2 + 7	20 A	27	1	1	28	20 A	CONTROL FANS
CORD REEL BAY 3 + 6	20 A	29	1	2	30	30 A	AIR COMPRESSOR
CORD REEL BAY 4 + 5	20 A	31	1		32		
MOTORIZED OVERHEAD DOOR (#6)	20 A	33	1	1	34	20 A	UNKNOWN LOAD (BREAKER ON)
MOTORIZED OVERHEAD DOOR (#7-8)	20 A	35	1	1	36	20 A	RECEPTACLE: APPARATUS BAY
MOTORIZED OVERHEAD DOOR (#5)	20 A	37	1	1	38	20 A	MOTORIZED OVERHEAD DOOR (#4)
RED ALARM LIGHTS (BREAKER OFF)	20 A	39	1	1	40	20 A	MOTORIZED OVERHEAD DOOR (#2-3)
BLUE ALARM LIGHTS (BREAKER OFF)	20 A	41	1	1	42	20 A	ALERT SYSTEM AMPLIFIER

Notes:

Panel: C (NEW WORK) ①

Location: EX.... **Volts:** 208Y/120 **A.I.C. Rating:** 10kA
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225.0 A
Enclosure: Indoor **MCB Rating:** 225.0 A

Notes:

	Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description	
	RECPT. FITNESS CENTER	20 A	1	1	2	2	50 A	**REC - CONVENCTION OVEN**	
	RECPT. FITNESS CENTER	20 A	3	1		4			*
**	**REC - CREW DORMS**	20 A	5	1	1	6	20 A	**LTG - ROOMS 109, 110, CORR.**	
**	**REC - CREW DORMS**	20 A	7	1	1	8	20 A	RECPT. MAINT (DRYER)	
**	**REC - CREW DORMS**	20 A	9	1	1	10	20 A	**REC - DAY ROOM**	
**	**REC - CREW DORMS**	20 A	11	1	1	12	20 A	**REC - APS MONITORS**	
**	**REC - CREW DORMS**	20 A	13	1	1	14	15 A	**KEF-1**	
	RECPT. WATCH OFFICE	20 A	15	1	1	16	20 A	**REC - ROOFTOP**	
	REC - DINING ROOM WATER FOUNTAIN	20 A	17	1	1	18	20 A	**REC - REFRIGERATOR**	*
**	**REC - CREW DORMS, CORRIDOR**	20 A	19	1	1	20	20 A	**REC - REFRIGERATOR**	*
	REC - TOILET & SHOWERS (GFCI)	20 A	21	1	1	22	20 A	**REC - REFRIGERATOR**	*
**	**FANS - CREW DORMS**	15 A	23	1	1	24	20 A	**REC - EX. ADMIN OFFICE 103**	
*	**REC - KITCHEN ISLAND ICE MACHINE**	20 A	25	1	1	26	20 A	RECPT. WATCH-EMERG. ALERT AMP	
	LTG - RESTROOMS, OFFICES	20 A	27	1	2	28	20 A	SPARE (BREAKER ON)	
**	**LTG - ROOMS 103, 104, 105, 106, 107, 108**	20 A	29	1		30			
	DRYER	30 A	31	**2**	**1**	32	20 A	**REC - EXISTING ROOM 104, 105, 106**	**
			33		**1**	34	20 A	**REC - EX. EMS STORAGE 126**	
	REC - ENTRY VESTIBULE	20 A	35	1	2	36	20 A	EWH - 1 MP & LOUNGE	
	SPARE	20 A	37	1		38			
	DRYER	30 A	39	2	2	40	20 A	EWH - 2 LOBBY & BUNK	
			41			42			

Notes:

Panel: D (NEW WORK) ①

Location: EX.... **Volts:** 208Y/120 **A.I.C. Rating:** 10kA
Supply From: **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225.0 A
Enclosure: Indoor **MCB Rating:** 225.0 A

Notes:

	Circuit Description	Trip	Circuit Number	Number of Poles	Number of Poles	Circuit Number	Trip	Circuit Description	
	VRFI-9 TO 23	**20 A**	1	**2**	**1**	2	20 A	**REC - DINING ROOM**	
			3			4	20 A	**Other IT/DATA M02**	*
	BC-1, BC-2, VRFI-14, VRFI-1 TO VRFI	**20 A**	5	**2**	1	6	20 A	**REC - KITCHEN ISLAND COFFEE MAKER**	*
			7		1	8	20 A	**REC - KITCHEN ISLAND COFFEE MAKER**	*
	RECEPT. SOUND EQUIPMENT	20 A	9	1	1	10	20 A	CONTROL DEHUMIDIFIER	
	RECEPT. SOUND EQUIP/RADIO	20 A	11	1	1	12	20 A	**GAS RANGE**	
	RECEPT. MAINT. (ICE MACHINE)	20 A	13	1	**1**	14	--	**SPACE FOR GAS RANGE SHUNT BREAKER**	
	RECEPT. MECH. PENTHOUSE	20 A	15	1	**1**	16	**20 A**	**RANGE HOOD JUNCTION BOX**	
	GAS WATER HEATER IGNITER	20 A	17	1	**1**	18	**20 A**	**REC - DED. KITCHEN**	
	SPARE	20 A	19	1	**1**	20	**20 A**	**DISHWASHER JUNCTION BOX**	*
	REC - ICE MAKER	20 A	21	1	**1**	22	**20 A**	**DISHWASHER JUNCTION BOX**	*
**	**LTG - CREW DORM CORR.**	20 A	23	1	**1**	24	**20 A**	**REC - KITCHEN ISLAND ICE MACHINE**	*
	P-1 & P-2	20 A	25	1	**1**	26	**20 A**	**REC - DED. KITCHEN**	
	F-1 & MOD	20 A	27	1	**1**	28	**20 A**	**REC - DED. KITCHEN**	
	F-2 & MOD	20 A	29	1	**1**	30	**20 A**	**REC - KITCHEN ISLAND (GFCI)**	
	F-3 & MOD	20 A	31	1		32			
	F-4 & MOD	20 A	33	1	**3**	34	**60 A**	**DOAS-1**	
	ZONE DAMPER CONTROLLER	20 A	35	1		36			
	REC - KITCHEN (GFCI)	20 A	37	1	2	38	60 A	**SPARE**	
*	**REC - KITCHEN ISLAND MICROWAVE**	20 A	39	**1**		40			
*	**REC - KITCHEN ISLAND MICROWAVE**	20 A	41	**1**	1	42	--	**SPACE**	

Notes:

SEISMIC REQUIREMENTS FOR ELECTRICAL SYSTEMS

PER IBC- 2021 /ASCE 7-10

A. EQUIPMENT, APPLIANCES AND SUPPORTS (INCLUDING ROOF CURBS AND ROOF RAILS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND AND SEISMIC MUST BE USED. SEE SEISMIC INFORMATION CONTAINED IN THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY. SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
B. USE APPLICABLE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH MECHANICAL COMPONENT.
C. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.
D. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE SEISMIC SUBMITTAL.
E. SEISMIC RESTRAINTS FOR CONDUIT, CABLE TRAY AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.
F. REFER TO ASCE 7-10 FOR SEISMIC INSTALLATION GUIDELINES.

ELECTRICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION	
Ip = 1.0	Ip = 1.5
• ALL ASSOCIATED ELECTRICAL WORK UNLESS NOTED OTHERWISE	▪ EMERGENCY LIGHTS ▪ EXIT LIGHTS

	SEISMIC DESIGN CATEGORIES D,E,F			
	COMPONENT IMPORTANCE FACTOR (Ip)			
	1.0		1.5	
COMPONENT IDENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED	RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
WALL MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
COMPONENT SUPPORTS	RESTRAIN ALL	1,2	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	RESTRAIN ALL	1	RESTRAIN ALL	-
SINGLE CONDUIT	>3"	3,4	>1"	3,4
CABLE TRAY/BUS DUCT TRAPEZED CONDUIT	RESTRAIN IF ANY CONDUIT ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	4	RESTRAIN IF ANY CONDUIT ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	4
COMPONENT CERTIFICATION (SEE NOTE 5)	NOT REQUIRED	-	REQUIRED	-
PENDANT, LAY-IN AND CAN LIGHTS	REQUIRED	-	REQUIRED	6

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED AT 4' OR LESS ABOVE A FLOOR AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
3. ALL NON-DUCTILE PIPING (I.E. PLASTIC) MUST BE RESTRAINED.
4. RESTRAINT IS NOT REQUIRED IF SUSPENDED 12" OR LESS FROM THE STRUCTURE AND THE HANGERS ARE DETAILED TO AVOID SIGNIFICANT BENDING OF THE HANGERS AND THEIR ATTACHMENTS AND PROVISIONS ARE MADE FOR PIPING TO ACCOMMODATE EXPECTED DEFLECTIONS.
5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.
6. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS GOVERNED BY "CISCA-04 FOR SEISMIC ZONES" (CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION).

GENERAL PANEL SCHEDULE NOTES

1 ALL ITEMS SHOWN DARK ON PANEL SCHEDULE REPRESENT CHANGES TO EXISTING CIRCUITS.
2 ALL BREAKERS MARKED *** SHALL BE FURNISHED AND INSTALLED WITH A GFCI TYPE CIRCUIT BREAKER, SIZE AS DENOTED.
3 ALL BREAKERS MARKED **** SHALL BE FURNISHED AND INSTALLED WITH AN AFCI TYPE CIRCUIT BREAKER, SIZE AS DENOTED.

KEYNOTES

1 E.C. SHALL PROVIDE SPARE 20A, 1P BREAKERS FOR ALL CIRCUITS IDENTIFIED AS ABANDONED AND DEMOLISHED DURING DEMOLITION PORTION OF PROJECT. E.C. SHALL UPDATE PANEL SCHEDULE TO REFLECT ANY NEW SPARE BREAKERS.

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
☎ 410-344-1460
✉ INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC ENGINEERING | DESIGN | CONSULTING
Delaware 315 S. Chapel Street Newark, DE 19711 Phone 302.738.7172 Fax 302.738.7175 www.dedc-eng.com
Pennsylvania Duane Morris Plaza 30 S. 17th Street Suite 830 Philadelphia, PA 19103 Phone 267.804.7286

SEAL:

STATE OF MARYLAND · SCOTT A. FRENCK · No. 47259 · PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

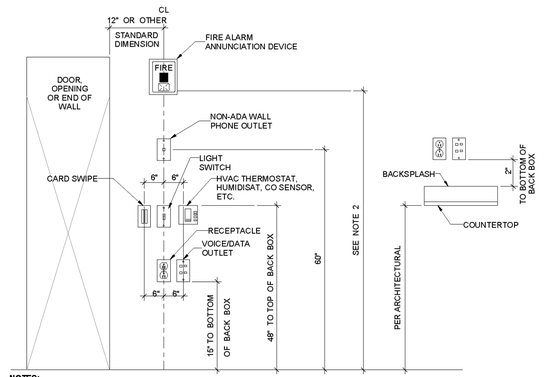
SHEET REVISION SCHEDULE:
No. DATE

ELECTRICAL PANEL SCHEDULES AND DETAILS

SHEET
E-602

4/17/2026 1:58:57 PM

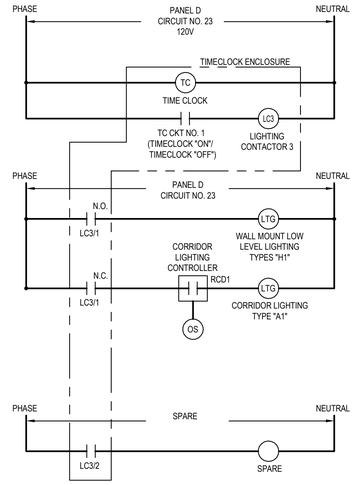
ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



NOTES:

1. DEVICES SHOWN WITHIN 48" OF EACH OTHER ON ALL ELECTRICAL PLANS SHALL BE ALIGNED PER THIS DETAIL. IF DEVICES ARE SHOWN IN MIDDLE OF WALL, THEN CENTER DEVICES ON WALL.
2. MOUNT 80" ABOVE FINISHED FLOOR WHERE POSSIBLE. WHERE CEILING HEIGHTS DO NOT ALLOW THIS HEIGHT, MOUNT 6" BELOW CEILING. WHERE OBSTRUCTIONS DO NOT ALLOW THIS HEIGHT, MOUNT 80" ABOVE FINISHED FLOOR. ALL MOUNTING HEIGHTS FOR NOTIFICATION DEVICES SHALL BE MEASURED TO THE BOTTOM OF THE LENS.

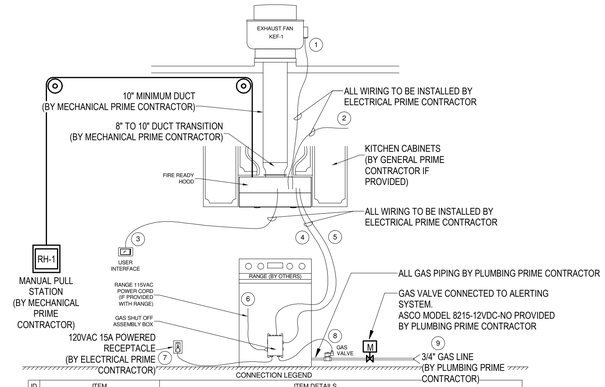
1 / E-603 DEVICE ALIGNMENT DETAIL
NOT TO SCALE



2 / E-603 INTERIOR LOW-LEVEL LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE

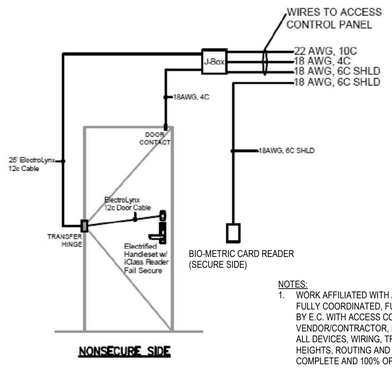
LIGHTING CONTROL NOTES:

1. DIGITAL TIME CLOCK SHALL BE TORK #7200Z PROVIDE NEMA 1 ENCLOSURE. SET TIME CLOCK TIME SETTINGS FOR TYPE S1 & T1 FIXTURE "LIGHTING ON OPERATING HOURS" TO BE ON FROM 7PM TO 7AM.
2. E.C. SHALL SET TIMECLOCK TO TURN LIGHTS ON AND OFF AS COORDINATED WITH OWNER.
3. INSTALL SYSTEM PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. LIGHTING CONTACTORS SHALL BE 8903-LG20-V02 AS MANUFACTURED BY SQUARE-D OR APPROVED EQUAL. CONTACTOR SHALL HAVE N.O./N.C. FOR WIRING BELOW.
5. E.C. SHALL WIRE HALLWAY LIGHTING ROOM CONTROLLERS FEEDING TYPE "A1" FIXTURES TO N.C. SIDE OF CONTACT SO OVERHEAD LIGHTING IS NOT IN USE WHEN LOW-LEVEL LIGHTING IS OPERATING. E.C. SHALL FURNISH AND INSTALL CORRIDOR LIGHTING OVERRIDE SWITCH FOR OVERHEAD LIGHTING CONTROL. (TYPICAL FOR ALL SECOND FLOOR CORRIDORS.)



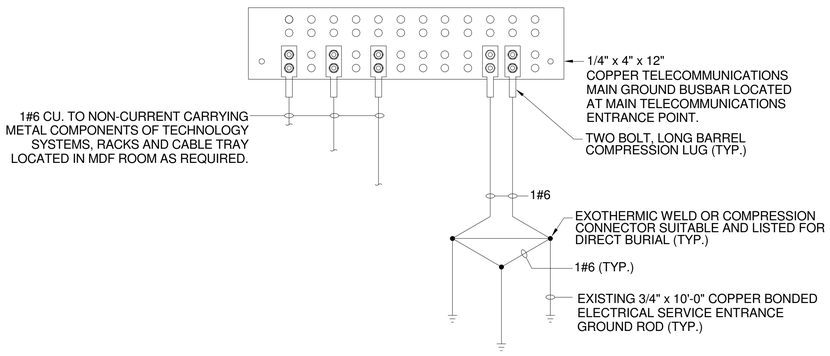
ID	ITEM	ITEM DETAILS
1	FAN	FIELD TO CONNECT FAN KEF-1 TO QC2, PROVIDED WITH 0-10VDC SPEED REFERENCE AND 115VAC RUN COMMAND.
2	HOOD POWER	FIELD TO PROVIDE 115VAC POWER FROM 15A BREAKER TO TERMINAL BLOCKS H1 AND N1 INSIDE HOOD (GROUND TO GROUNDING TERMINAL).
3	SHIP LOOSE USER INTERFACE	8.5 FT PLUG AN PLAY CABLE WITH LIGHT BLUE LABEL COILED UP AND ATTACHED TO HOOD. FIELD TO CONNECT PLUG TO BACK OF USER INTERFACE INSIDE INTERFACE J-BOX.
4	GAS/ELECTRIC DISCONNECT CABLE 1	10 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO 9PIN CONNECTION AT HOOD. FIELD TO PLUG THIS INTO GAS/ELECTRIC SHUT OFF ASSEMBLY BOX.
5	GAS/ELECTRIC DISCONNECT CABLE 2	10 FT PLUG AND PLAY CABLE COILED UP AND ATTACHED TO 4PIN CONNECTION AT HOOD. FIELD TO PLUG THIS INTO GAS/ELECTRIC SHUT OFF ASSEMBLY BOX.
6	RANGE POWER CORD	PLUG RANGE POWER CORD (IF PROVIDED WITH RANGE) INTO GAS SHUT OFF ASSEMBLY BOX.
7	SHUT OFF ASSEMBLY BOX POWER	PLUG GAS SHUT OFF ASSEMBLY BOX POWER CORD INTO NEARBY 115VAC RECEPTACLE.
8	SHUT OFF ASSEMBLY VALVE POWER	GAS VALVE TO CONNECT TO QUICK CONNECTOR, CONNECTS 5FT GAS VALVE POWER CORD TO 1.5FT CABLE ON GAS VALVE.
9	GAS LINE	PIPE GAS LINE INTO GAS VALVE INLET, THEN OUT OF GAS VALVE OUTLET TO RANGE.

3 / E-603 KITCHEN HOOD/KEF-1 INSTALLATION DETAIL
NOT TO SCALE



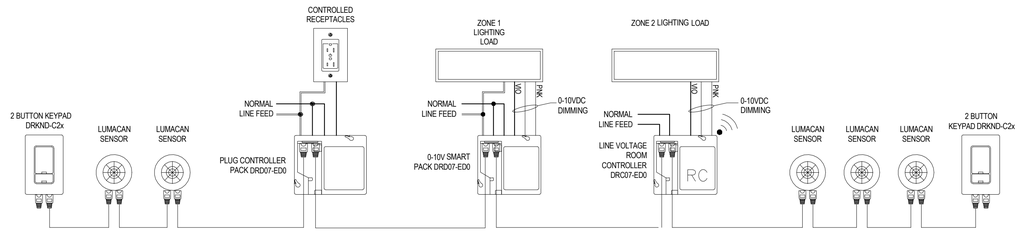
NOTES:
1. WORK AFFILIATED WITH ACCESS CONTROL SYSTEM SHALL BE FULLY COORDINATED, FURNISHED AND INSTALLED IN FIELD BY E.C. WITH ACCESS CONTROL SYSTEM VENDOR/CONTRACTOR, INCLUDING, BUT NOT LIMITED TOO, ALL DEVICES, WIRING, TRANSFORMERS, BOXES AND CONDUIT HEIGHTS, ROUTING AND LOCATIONS TO MAKE A FULLY COMPLETE AND 100% OPERATIONAL DOOR ACCESS SYSTEM.
2. E.C. SHALL HAVE ALL CARD ACCESS DOORS PROGRAMMED TO FAIL-OPEN IN EVENT OF BUILDING FIRE ALARM OPERATION.

4 / E-603 ELECTRIC STRIKE DETAIL
NOT TO SCALE

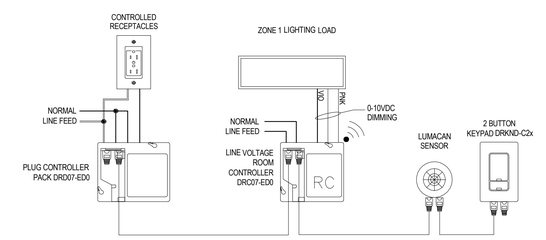


5 / E-603 IT ROOM GROUNDING BAR DETAIL
NOT TO SCALE

GreenMAX DRC Wired for Multi-Zone, Typical



GreenMAX DRC Wired for Single-Zone, Typical



6 / E-603 TYPICAL LEVITON ROOM CONTROL WIRING DIAGRAM
NOT TO SCALE

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

MANNS WOODWARD STUDIOS
ARCHITECTURE + MASTER PLANNING
10839 PHILADELPHIA RD
WHITE MARSH, MD 21162
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:
DEDC LLC
ENGINEERING | DESIGN | CONSULTING
Delaware
315 S. Chapel Street
Newark, DE 19711
Phone
302.738.7172
Fax
302.738.7175
www.dedc-eng.com
Pennsylvania
Duane Morris Plaza
30 S. 17th Street
Suite 830
Philadelphia, PA 19103
Phone
267.804.7286

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, SCOTT A. FRENCK, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #47259
EXPIRATION DATE: 09-23-2027

WESTVIEW FIRE STATION 31
FIRE STATION FEASIBILITY STUDY
5525 NEW DESIGN RD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION
FOR CONSTRUCTION

ORIGINAL ISSUE
04/17/2026

SHEET REVISION SCHEDULE:
No. DATE

ELECTRICAL DETAILS

SHEET
E-603

4/17/2026 1:58:57 PM

Firehouse Alerting Project Notes

Electrical Contractor Scope of Work:
1. Provide permit if needed
2. Provide wire
3. Provide wire runs per NFPA 70 code
4. All wire runs to be clearly tagged & labeled
5. Provide all wiring materials (hangars, conduit, surface mold,wire ties, boxes, etc…)
6. Provide high voltage electrical relay connections if needed
7. Provide other high voltage connections if needed
8. Provide electrical power where needed (dedicated/undedicated)
9. Provide complete system installation (including head end equipment)
10. Provide as-built drawings after installation
11. Provide 1 year of warranty on labor
12. Provide an on-site representative when final connections are made

APS Scope of Work:
1. Provide shop drawings of field devices
2. Provide system components
3. Provide technical support to electrical contractor: 410-239-4644
4. Provide all programming and calibrations
5. Provide end user training
6. Provide a 3-year warranty on all APS supplied devices – Installer may assist APS for payment to make repairs/replacements as needed

Wire Specifications:

Supplier: Windy City Wire or equal approved by APS

Non-Plenum

Product Number	Connectors	Color	Length
28100	16/2 STR	Grey	1000'
28300	16/4 STR	Grey	1000'
14100	18/2 STR OAS	Grey	1000'
2391	18/6 STR	White	1000'
7756010-FP	CAT6	Red	1000'

Plenum

Product Number	Connectors	Color	Length
1360	16/2 STR	White	1000'
1380	16/4 STR	White	1000'
2320	18/2 STR OAS	White	1000'
2351	18/6 STR	Grey	1000'
CAT6P-RED	CAT6	Red	1000'

Speaker Information:

Speaker Type	Common Wire Color	70V Wire Color	Wattage
8" Round CSS8008 Ceiling Speaker	Black	Brown	2.5
Exterior Loudspeaker		Switch Position 4	7.5
SM4T Bathroom Speaker		Rotary Switch w/ Jumper set to 70V	1.0
MB8TSL Metal Wall Mount Speaker	Black	Green	2.0
Soundsphere Speaker	Black	Purple	7.5

LED Speaker Type	Common Audio	70V Audio	LED Common Wire	LED Power
8" Round CSS8008 Ceiling Speaker	Black	Brown	Black	Red

Wire Length to leave in boxes for device connection: 16"

Wire Terminations:
CAT6 Cables = RJ45 Class B connections

Mounting heights: All are A.F.F. to bottom of the box
LCDs, LEDs, and power outlets - 80"
Apparatus Bay LCDs & power outlets - 95"
Volume Controls, Alert Selectors, Resets, & Who's In Reader - 48"
APS IP alerting controller – Dimensions 18" high, 15" wide, 4½" deep - 48 inches A.F.F.
Bogen #MB8STL wall mount speaker 11 5/8" X 11 5/8" - 78 inches A.F.F. to bottom of speaker
Exterior Speaker shall be hung under soffit where possible
Apparatus bay speakers to be hung 16' A.F.F.
Gas disconnect – located at the solenoid
Multi-Colored Lights (MCL) - 84" A.F.F. or Ceiling Mounted (See drawing detail pages)

Device Wire Size
All speakers (except LED speakers), and LED Clusters =16/2 STR
Reset Buttons, Doorbells = 18/2 STR OAS
LED Speakers, Volume Controls = 16/4 STR
Stove Resets = 18/2 STR OAS & 16/2 STR
Gas Shutoffs and Stove Shutoffs = 16/2 STR
Stacklights, and Multi-Color Lights = 18/6 STR
Toggle Alert Selectors = 16/4 STR or 16/2 STR
Momentary Alert Selectors = 18/2 STR OAS, one wire per button on the gang plate
CAD LCD Displays, and Scrolling LEDs = Cat6 (not to exceed 300')
RIB Relays (Lighting) = 16/2 STR

Zones:
Devices will be zoned as required by the customer and shown on this drawing.

Reqiured boxes:

35w volume control – Double gang 3" deep box
10w volume control – Single gang 3" deep box
Reset button – Single gang 3" deep box
Alert selector – Single gang 3" deep box
Stove reset – Single gang 3" deep box
Doorbells- Single gang 3" deep box
Who's In Remote Reader - Double gang 3" deep box

Radio Connections:

Fire department to provide an antenna and line level output for fire station audio.

CAT6 Network Cable:

Each CAT6 network cable must be homerun from PoE switch to each alerting display.
Maximum length for CAT6 network cable is 100 meters.

Speakers:
Speakers provided by APS are 70V commercial speakers only. 8-ohm speakers can not be used for proper operation of the system.

Devices and Equipment Provided by Others:

All existing or new devices and equipment provided by others must be approved, in writing, by APS prior to being connected to any APS alerting system. APS will not support or warranty devices or equipment provided by others.

Drawing Approved:

_____

Customer Signature Print Name

Date:_____

I have thoroughly reviewed each page of this drawing and confirm that the Concept of Operations (FSA-2), and devices shown, fully meets all customer requested functionality and requirements.

CONTROLLER WIRING

INPUTS – SHIELDED WIRE ONLY

I1 = RF FIRE
I2 = RF EMS
I3 = RF RESERVED
I4 = FRONT DOORBELL
I5 = REAR DOORBELL
I6 = NOT USED
I7 = MANUAL ALERT
I8 = BUNKROOM RESET
I9 = COUNTY EMERGENCY PHONE
I10 = FITNESS ROOM RESET
I11 = FITNESS EMER BUTTON
I12 = NOT USED
I13 = PHONE PAGING ADAPTER
I14 = STOVE RESET
I15 = AC SUPERVISORY
I16 = BATTERY SUPERVISORY

OUTPUTS

O1 = APPARATUS BAYS
O2 = SAFETY OFFICE
O3 = ALS OFFICE
O4 = BUNKROOM
O5 = KITCHEN/DAYROOM
O6 = RESTROOMS
O7 = TEMPORARY TRAILERS
O8 = RED STACKLIGHTS
O9 = BLUE STACKLIGHTS
O10 = GREEN STACKLIGHTS
O11 = AMBER STACKLIGHTS
O12 = RED STROBES
O13 = BLUE STROBES
O14 = EXTERIOR SPEAKERS (DRY CONTACT)
O15 = SUPERVISORY RELAY
O16 = STOVE DISCONNECT
O17 = STOVE DISCONNECT LAMP

WIRELESS INPUTS

INPUTS

W1 = NOT USED
W2 = NOT USED
W3 = NOT USED
W4 = NOT USED
W5 = NOT USED
W6 = NOT USED

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting
(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *FHA Notes*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-23-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APS APPROVAL:

SHEET NO. **FSA-1**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT NOTES

SHEET NUMBER:
FSA-1

4/17/2026 1:46:15 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

ALERTING DEVICE FUNCTIONALITY AND SYSTEM OPERATIONS

Two-Tone Alerting
- 2-Tone paging is used for alerting redundancy.
- Customer must supply a fire department radio with line level audio output, and external antenna that will be used as the primary audio source.

CAD Alerting
- CAD data will be received through the APS/Motorola P1 interface.

Network Requirements
- Four (4) local static IP addresses and ports on the County network are required. One for the APS IP Controller, APS FAST Server, APS Display LVM, and APS Incident Status LVM.

Station Zoning
- The station is zoned into functional areas as shown in this construction drawing.
- Alerting and lighting can be controlled individually within each Zone.

Ramped Audio
- APS utilizes ramped audio to provide the initial station alert to provide a heart-healthy method of alerting.
- The standard Frederick County alerting audio and sequence will be configured.

Volume Controls
- APS utilizes commercial volume controls with priority functionality. When the Alerting Controller is activated, individual volume control settings will be bypassed, and ramped alert audio will be delivered up to the maximum volume.

Bunkroom and Egress Lighting
- APS LED Speaker Lights, and APS LED Cluster Lights, provide red, ramped, low-level lighting in bunkroom areas and egress corridors.
- LED lighting will ramp over a five-second period and will provide low-level, heart-healthy lighting to allow personnel time to adjust to normal lighting levels during the initial alerting process.
- Alternative colors are available.

Doorbells
- Doorbells are located as shown in this drawing.
- When pressed, doorbells will sound a custom audio tone and recorded voice indicating which doorbell was activated.
- The activated doorbell location will be shown on the station alerting displays.

Manual Alert Button
- A one-button manual alert is located as shown in this drawing.
- The manual alert button provides a means to internally alert station personnel in circumstances where an emergency is reported over the phone, or in-person at the station.
- Buttons can be strategically mounted at any location within the station.
- Custom audio can be assigned to each button.

Alerting Displays
- Commercial alerting displays as shown in this drawing. 43-inch displays are normally located in administrative or living areas; 55-inch displays are normally located in apparatus bays.
- Alerting Displays show non-emergency, situational awareness information while in non-emergency mode. In emergency mode, alerting displays show incident information to include: incident type, units due, incident address, box or map area, and CAD comments. A route map or location map is displayed.

Reset Button
- Reset buttons are located throughout the station and are used to reset the station alert audio and lighting within a zone or throughout the station.
- Station audio and lighting will automatically reset after a user-selectable time if a reset button is not pressed or installed.

Audio and Lighting Disconnect
- No audio or lighting disconnects are provided as part of this project.

User Interface
- A browser-based user interface is provided on all APS systems. The interface allows the customer and APS technical staff to access the system, troubleshoot, make configuration changes, and test devices and operation of the system.
- The customer is responsible for providing all computer hardware and support to be used for displaying the Alerting Controller user interface. APS does not provide computer or peripheral hardware of support.

Multi-Color Lights
- A four(4)-lens LED multi-color lights are installed throughout the station. Multi-color lights provide visual notification for unit or incident type alerting. Lights are activated wirelessly.

Alert Selector Buttons
- No alert selector buttons are provided as part of this project.

LED Stack Lights
- LED stack lights are installed in the apparatus bay areas to provide visual notifications for units alerted.
- Red are for engines, and brush trucks, Blue is for ambulances, and ALS units, Green is for rescues and trucks, amber is for Battalion Chiefs, Safety Officers, or boats.

Fitness Emergency Button
- Installed in the gym or fitness room and is used to internally alert station personnel of a medical emergency involving fire/rescue members.
- The emergency button will activate alert lighting, bypass volume control settings, and sound a custom alert audio. The audio will loop until acknowledged by pressing any station reset button.

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting
(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Concept of Operations Pg 1*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-2**

STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT SYSTEM OPERATIONS 1

SHEET NUMBER:
FSA-2

4/17/2026 1:46:16 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

ALERTING DEVICE FUNCTIONALITY AND SYSTEM OPERATIONS

Relay Controls and Inputs

- The APS alerting controller provides 12-volt, 16 inputs, and 16 outputs to control external functions.
- No external controls have been provided or required by this customer per the government-provided design drawing. Control of apparatus bay doors, internal lighting, stove disconnect circuits, etc. can be added as needed.

Stove Disconnect

- Electric and gas cooking equipment will be disconnected when a station alert is received per customer requirements.
- Gas stoves with pilot lights can NOT be connected to a stove disconnect circuit.
- A means to disconnect the gas by a powered valve must be installed to disconnect the gas service. APS must be contacted to assure the proper type of gas valve is installed. The gas valve will be provided and installed by others.
- Connection to a new stove system must allow for dry enclosure input from APS alerting controller to work in conjuncture with the stove's hood system panel.
- Electrician will be responsible for installing the required electrical circuits. APS will provide RIB style relays to connect to the disconnect circuit.

Radio and Scanner Audio – Customer Responsibilities

- The Customer must provide a fire department radio or other acceptable source to be the primary dispatch audio used for station alerting.
- The Customer can provide scanner(s) to provide audio for other channels or talk-groups.
- All radios and scanners must be in a location approved by APS, and as shown in this design drawing. The customer may be required to relocate existing audio sources to a location specified by APS.
- The Customer must provide external antenna for all audio sources when required for proper reception.
- Audio sources must provide line level output audio.

Overhead Paging – Customer Responsibilities

- The Customer must provide a phone paging module with a contact closure to be used for overhead paging.
- The paging module will be connected to the APS Alerting Controller causing the audio to ramp to full volume during an overhead announcement.
- Paging module must provide audio line-level output to integrate with station alerting public address system.
- If the module is provided by APS, the make and model of the paging adapter will be shown in this drawing and approved by the customer.

Network and Power Interruptions

- The alerting system will monitor for power and network interruptions.
- Should an interruption occur, the APS Trouble Strobe will activate, and an automated voice announcement will be heard over the station speakers.
- Customer SMS and/or e-mail notifications can be configured for internal notification purposes.

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting
(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Concept of Operations Pg 2*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-3**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT SYSTEM OPERATIONS - 2

SHEET NUMBER:
FSA-3

4/17/2026 1:46:16 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

Symbol	Name	Mounting	Wire	Additional Notes / Comments
APS	APS Alerting Controller	Rack or Wall Mounted	N/A	
	APS Doorbell	Flush or surface-mounted in single-gang box	18/2 OAS	Each doorbell is home run. Connect each input to Alerting Controller per FSA-1.
1A 2A	1-Button or 2-Button Manual Alert	Flush or surface mounted in single-gang box	18/2 OAS	For a two-button manual alert, one 18/2 OAS wire is required for each button. Connect each to input in Alerting Controller per FSA-1.
3S	3-Button Alert Selector	Mounted in single-gang box	16/4	See device wiring supplementary for wiring details. Custom alert selector panels are available upon request.
Switch	APS Switch	Rack-mounted or on shelf in rack depending upon type of switch required	N/A	Standard switch used by APS is a 16-port rack-mounted switch.
ME	Medical Emer Button	Flush or surface-mounted in single-gang box	18/2 OAS	An APS Reset Button must be pressed to reset Emergency Button audio.
	Stove Reset/ Disconnect	Stove Reset is flush or surface-mounted in single-gang box	18/2 OAS, 16/2	Stove disconnect is a 120V gas valve. Disconnect can not be used on stove with pilot lights. Electrical circuit to stove must disconnect with gas. **Gas valve is provided and installed by others.**
SD AD	Speaker/Audio Disconnect	Flush or surface-mounted in single-gang box	16/2	
EP	Emergency Phone	Mounted per manufacturer instructions	18/2 OAS	Emergency phone must provide a 12V contact closure to APS Alerting Controller.
S	Recessed Ceiling Speaker	Mounted in drop ceiling using a tile-bridge. Backcans provided if required	16/2	8-inch, 70V, 2.5 Watts
LED	APS LED Speaker	Mounted in drop ceiling using a tile-bridge. Backcans provided if required	16/4	8-inch, 70V, 2.5 Watts
BS	Moisture Resistant Bathroom Speaker	Surface mounted	16/2	1.0 Watt
WS WV BX	Metal, Wall Speaker	Surface mounted	16/2	BX – Metal square box speaker. WS/WV – Metal slant wall speaker. WV has built-in volume control. 2.0 Watts - WV has built-in volume control
SS	Omni-Direction Speaker	Surface mounted, or hung 16ft. a.f.f. depending upon installation	16/2	7.5 Watts, **When hanging omni-directional speakers, they must be lowered to 16 ft above the finished floor, unless otherwise approved and noted by APS.**
R B	Strobe Light	Surface mounted	16/2	Available in multiple colors per customer requirements.
R	APS LED Cluster Light	Light is mounted in a standard 4-inch round plate	16/2	Will illuminate an approx 10 x 10 square foot area.
MCL	Multi-Color LED Wireless Lighthead	Ceiling or wall mounted in a single-gang box	16/2	Lights are wired in series for power. Lights are activated wireless through transmitter located in rack.
4SL	Multi-Color LED Stacklight	Surface mounted horizontally, or vertically using a 90-degree elbow	18/6	Lights are wired in series. Only one(1), 18/6 wire is required.
ES ES	Bullhorn style exterior speaker, or other style exterior speaker	Bullhorn style exterior speakers are typically mounted under soffit. For other speakers, see specific mounting location and instructions.	16/2	See speaker details for specific wattage tap.
	APS RIB Style Relay	Mounted in standard 1900 box	16/2	Relays are used to control stove disconnect, and other 120V devices.
!	APS Trouble Strobe	Ceiling or Wall Mounted	16/2	Connected to Output 15 of Alerting Controller.

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting

(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE:
Symbol Sheet Page 1

JOB NAME:
Westview Station 31 Renovation FHA Construction Drawing.

JOB ADDRESS:
5525 New Design Road

CITY, STATE:
Frederick, MD 21703

DATE: ***6-20-25***
SCALE: *NOT TO SCALE*
DRAWN BY:
APPROVED BY:

SHEET NO.
FSA-4

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT SYMBOLS 1

SHEET NUMBER:
FSA-4

4/17/2026 1:46:16 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

Symbol	Name	Mounting	Wire	Additional Notes / Comments
CAD LED 43"	Commercial Alerting Display	Wall mounted using a full-tilt or full-motion bracket. See detail pages for specified mounting bracket. Mounting height to be 78-inches a.f.f. in admin areas, and 96-inches min a.f.f. in apparatus bays.	CAT 6	A 120V, duplex outlet is required at each display location. A RJ-45 network jack is required at each display location. Alerting displays can be wired in series or home run. See wiring detail pages wiring method.
	APS Reset Button	Wall-mounted at 48-inches a.f.f.	18/2 OAS	
VC 10 | VC 35	10W/35W Volume Controls	Wall-mounted at 48-inches a.f.f.	16/4	12V volume controls with priority bypass. 16/4 wire from APS alerting controller to primary volume control within each identified zone. Volume controls in each zone can be wired in series using 16/4 wire.

Special Notes for Installer and Customer – Fire Department Audio, Radio, Antenna, and Network Connections

Fire Department Audio and Radio:

- Customer must provide an fire department radio with line level audio output that will be used to supply the primary dispatch audio through the station speakers.
- Customer must provide an external antenna, cable and any required cable splitters for the fire department radio or other audio sources.
- Installer must run a 16/2 stranded wire from the fire department provided radio to the APS Alerting Controller if located in a different room from one another.

Network Connections

- Installer must run three, CAT6 network cables from the customer's network switch to the APS Alerting Controller if located in a different room from one another.

Phone System Connections

- Customer must provide a phone system paging module that provides a 12V contact closure or a normally open, Form C contact closure to the APS Alerting Controller if paging over the station alerting speakers is required by the customer.
- Installer must run a 18/2 OAS stranded wire from the phone system paging module to the APS Alerting Controller if located in a different room from one another.

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting
(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Symbol Sheet Page 2*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-5**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #13505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT SYMBOLS 2

SHEET NUMBER:
FSA-5

4/17/2026 1:46:16 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

General Alerting System Project Notes

Demolition

- The County's construction contractor will be responsible for removing all existing speakers, volume controls, and alerting devices within the demolition areas as required.
- APS installer will be responsible for installing the required temporary wiring and devices required for the temporary trailers, and the alerting system.
- All existing 8-inch round speakers must be removed during demolition, and stored undamaged for reuse.
- All volume controls located in walls to be demoed must be removed, and stored undamaged for reuse.
- All APS wall-mounted alerting devices to be relocated or in walls to be demoed must be removed, and stored undamaged for reuse.
- All existing wiring used for the alerting system devices within the demolition and renovation areas is to be removed. Wiring that is to remain in place during demolition is labeled in this drawing and shown in black. Wiring that can remain in place is primarily located in the apparatus bays as shown.
- **County's contractor must coordinate with the County prior to any interruption in County network or radio communications.**

County Network and APS Alerting Rack

- The APS alerting rack will remain in place in the existing watch room during the renovation. **Network connectivity to the County network, County radio, and decoder must be maintained throughout the renovation to assure uninterrupted station alerting. Any required outages must be coordinated with the County.**
- County must provide network connectivity to the Trailer 1 (Lounge) throughout the project.

Alerting System Installation

- APS installer will be responsible for installing all conduit, back boxes, wire, speakers, and other associated alerting system devices.
- APS installer will be responsible for obtaining all required permits and inspections in coordination with the County's contractor and project management.
- **Final location of all station alerting system devices will be field coordinated with the County and County contractor prior to installation.**
- APS Technicians will be responsible for making any final connections to the APS IP Controller and head-end equipment. All new wire runs to the APS rack in the watch office must be labeled.
- The removal of any temporary alerting system speakers, and devices in the trailers will be removed by APS. Temporary wiring from the County network, or from the APS rack will be removed by APS and will be coordinated with the County and the County's contractor.
- APS will provide a final inspection, testing, and acceptance with the County upon project completion.

APS Firehouse Alerting Contact Information

Sales Manager

- Marc McNeal
- marcm@firehousealerting.com
- 410-239-4644
-
- **Project Manager**
- Austin Johnstone
- austinj@firehousealerting.com
- 410-239-4644
-
- **Technical and Installation Support**
- Nick Raffensberger
- fhaservice@firehousealerting.com
- 410-239-4644
-

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting

(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Scope of Work*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-23-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-6**

STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - SCOPE OF WORK

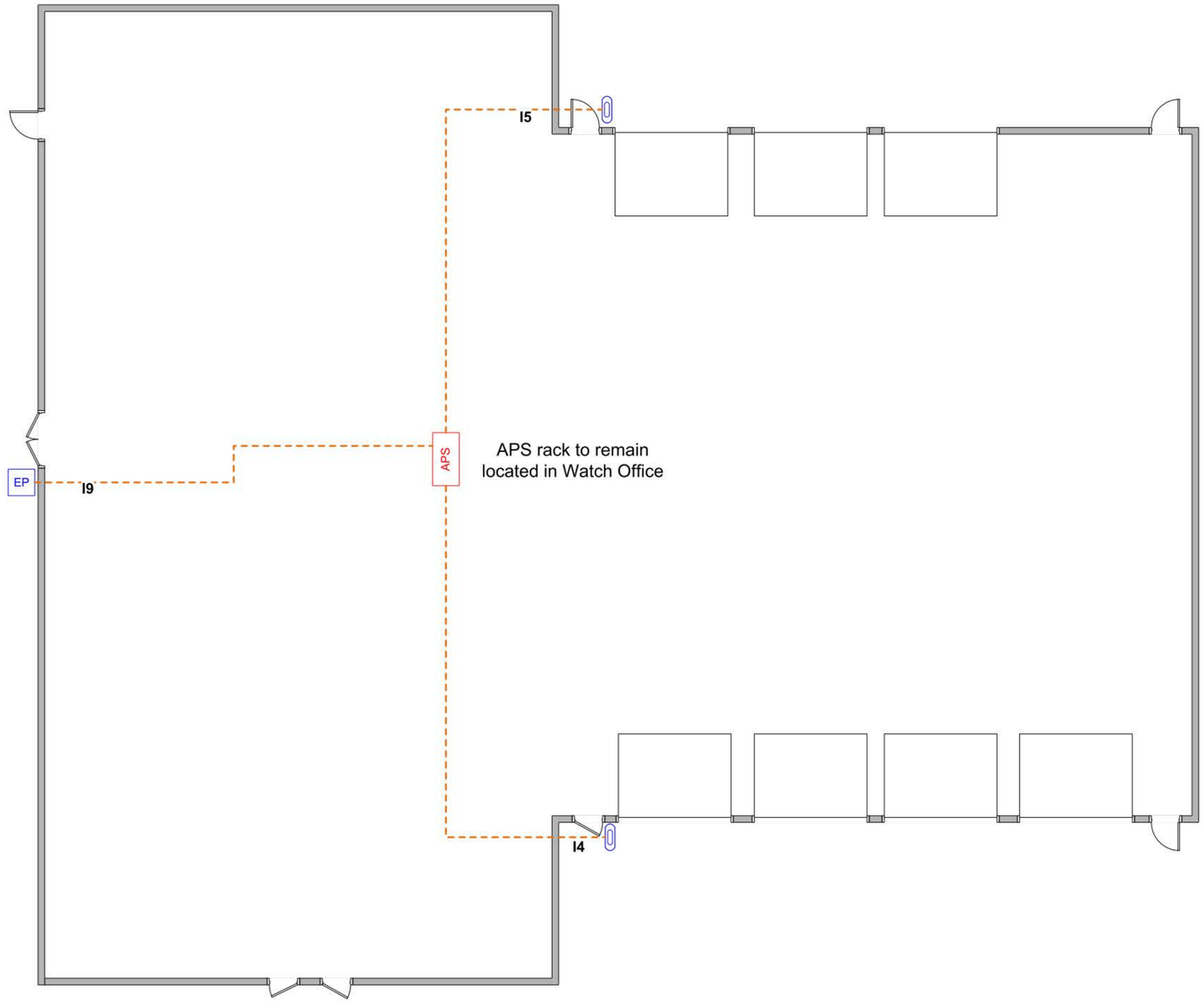
SHEET NUMBER:
FSA-6

4/17/2026 1:46:17 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

General Notes:

- All devices in blue are existing and are to remain in place during renovation.
- Wiring is to remain in place for these devices, if possible.



Wire Color Legend

16/2 -
16/4 -
18/2 OAS -
18/6 -
Cat6 -
22/6 -

APS Firehouse Alerting

Fire Station Alerting System Solutions
RF and Network Alerting

(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE:
Exterior Devices

JOB NAME:
Westview Station 31 Renovation FHA Construction Drawing.

JOB ADDRESS:
5525 New Design Road

CITY, STATE:
Frederick, MD 21703

DATE: ***6-23-25***

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO.

FSA-7

STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - EXTERIOR DEVICES

SHEET NUMBER:

FSA-7

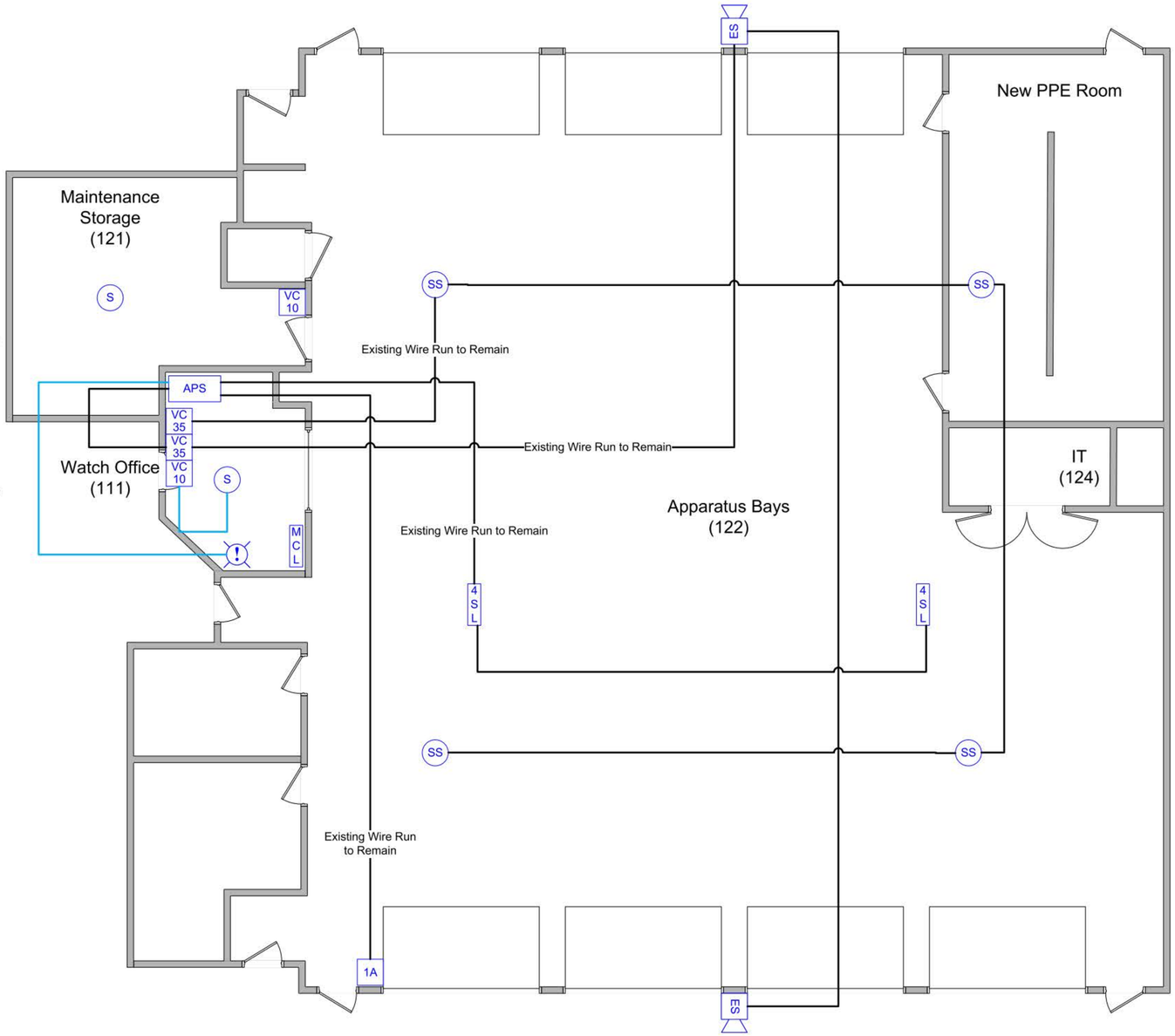
4/17/2026 1:46:17 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

Note: All omni-directional speakers must be lowered to 16 ft. above finished floor, unless they are required to be surface-mounted or otherwise approved by APS, and noted on this drawing.

General Notes:

- All devices shown in blue are existing.
- Speakers in the maintenance/ storage, and watch office areas are to be removed during renovation. Only one existing speaker is required to re-installed in these rooms.
- Wiring will be replaced in the watch office and maintenance storage rooms.
- All devices and wiring in the apparatus bays, and all devices in the apparatus bays are to remain in place as shown.
- Volume controls for the Watch Office, Apparatus Bays, and Exterior Speakers will remain mounted in the APS rack.
- Wire runs shown in black are existing, and are to remain in place.



Wire Color Legend

- 16/2 -
- 16/4 -
- 18/2 OAS -
- 18/6 -
- Cat6 -
- 22/6 -

APS Firehouse Alerting

Fire Station Alerting System Solutions
RF and Network Alerting

(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Apparatus Bays*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-8**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

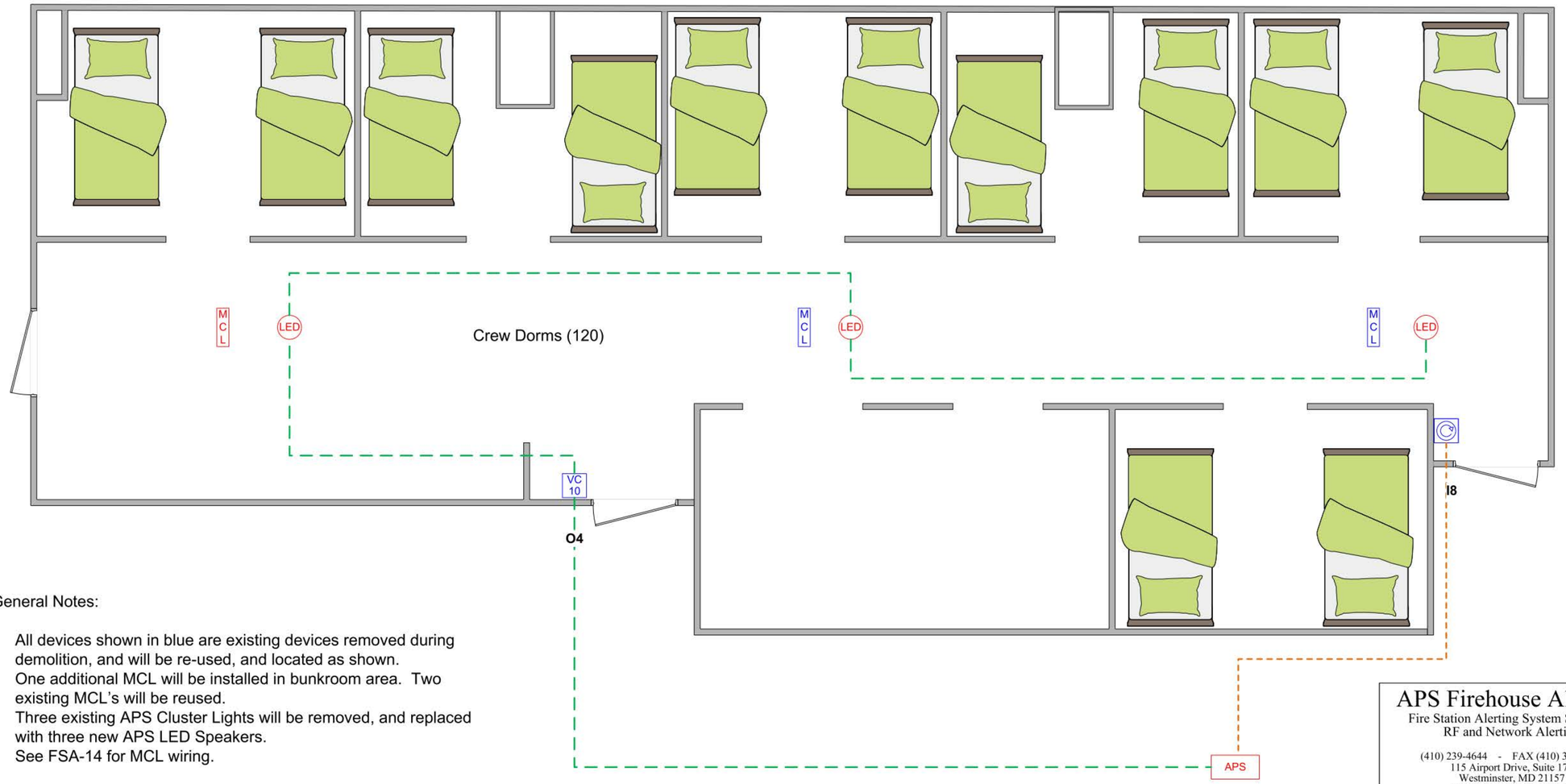
SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - APPARATUS BAYS

SHEET NUMBER:
FSA-8

4/17/2026 1:46:17 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



General Notes:

- All devices shown in blue are existing devices removed during demolition, and will be re-used, and located as shown.
- One additional MCL will be installed in bunkroom area. Two existing MCL's will be reused.
- Three existing APS Cluster Lights will be removed, and replaced with three new APS LED Speakers.
- See FSA-14 for MCL wiring.

Wire Color Legend

16/2 -
16/4 -
18/2 OAS -
18/6 -
Cat6 -
22/6 -

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting
(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Bunkroom Area*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-9**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

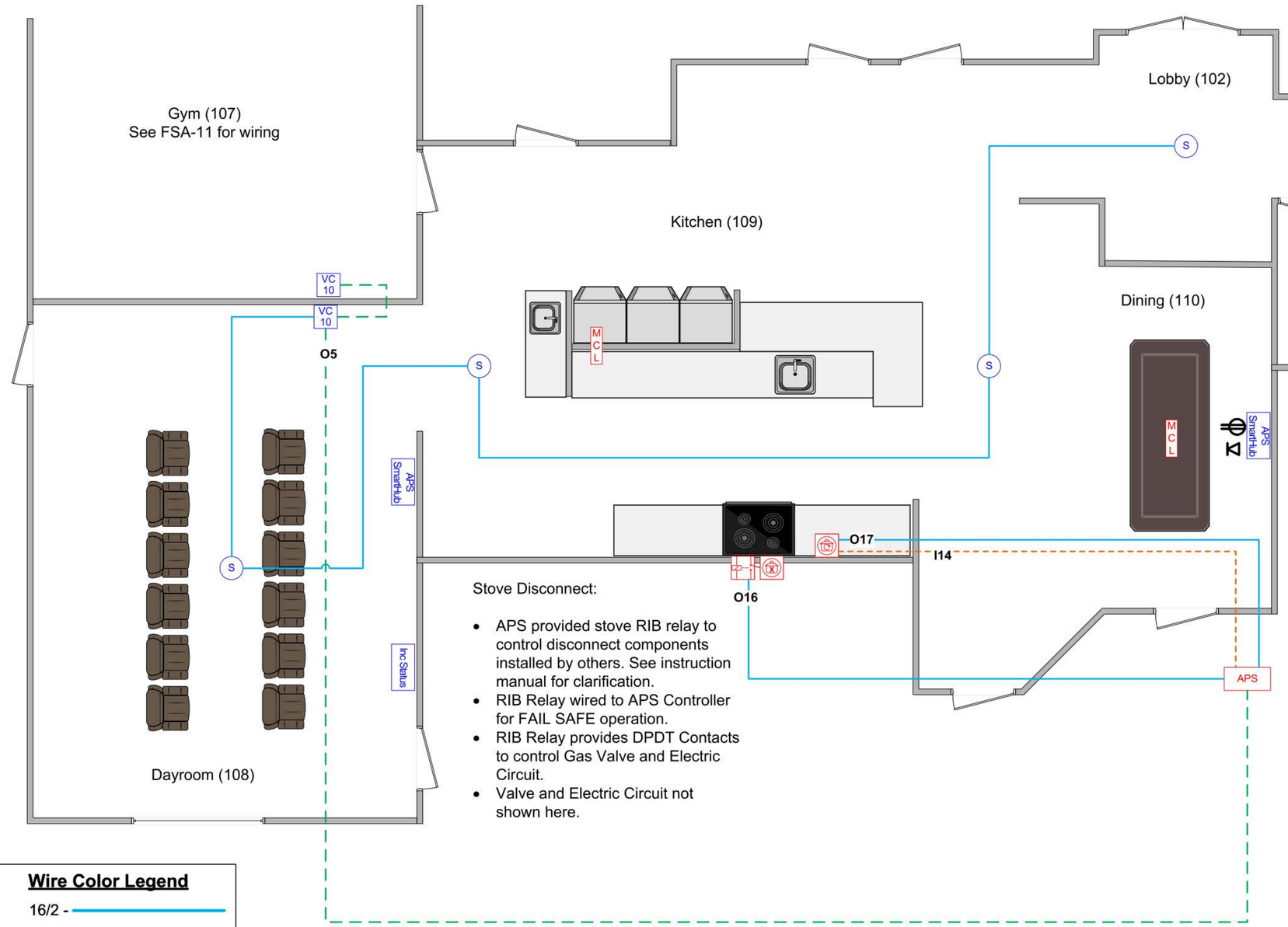
SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - BUNKROOM AREA

SHEET NUMBER:
FSA-9

4/17/2026 1:46:18 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



General Notes:

- All speakers shown in blue were existing, removed, and saved during demolition. Existing speakers are to be reinstalled in locations shown.
- Existing volume control will be reused.
- New wiring is to be installed as shown.
- See FSA-14 for MCL Wiring.

Stove Disconnect:

- APS provided stove RIB relay to control disconnect components installed by others. See instruction manual for clarification.
- RIB Relay wired to APS Controller for FAIL SAFE operation.
- RIB Relay provides DPDT Contacts to control Gas Valve and Electric Circuit.
- Valve and Electric Circuit not shown here.

Wire Color Legend

- 16/2 -
- 16/4 -
- 18/2 OAS -
- 18/6 -
- Cat6 -
- 22/6 -

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting
(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Kitchen/Dayroom*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-10**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - KITCHEN/DAYROOM

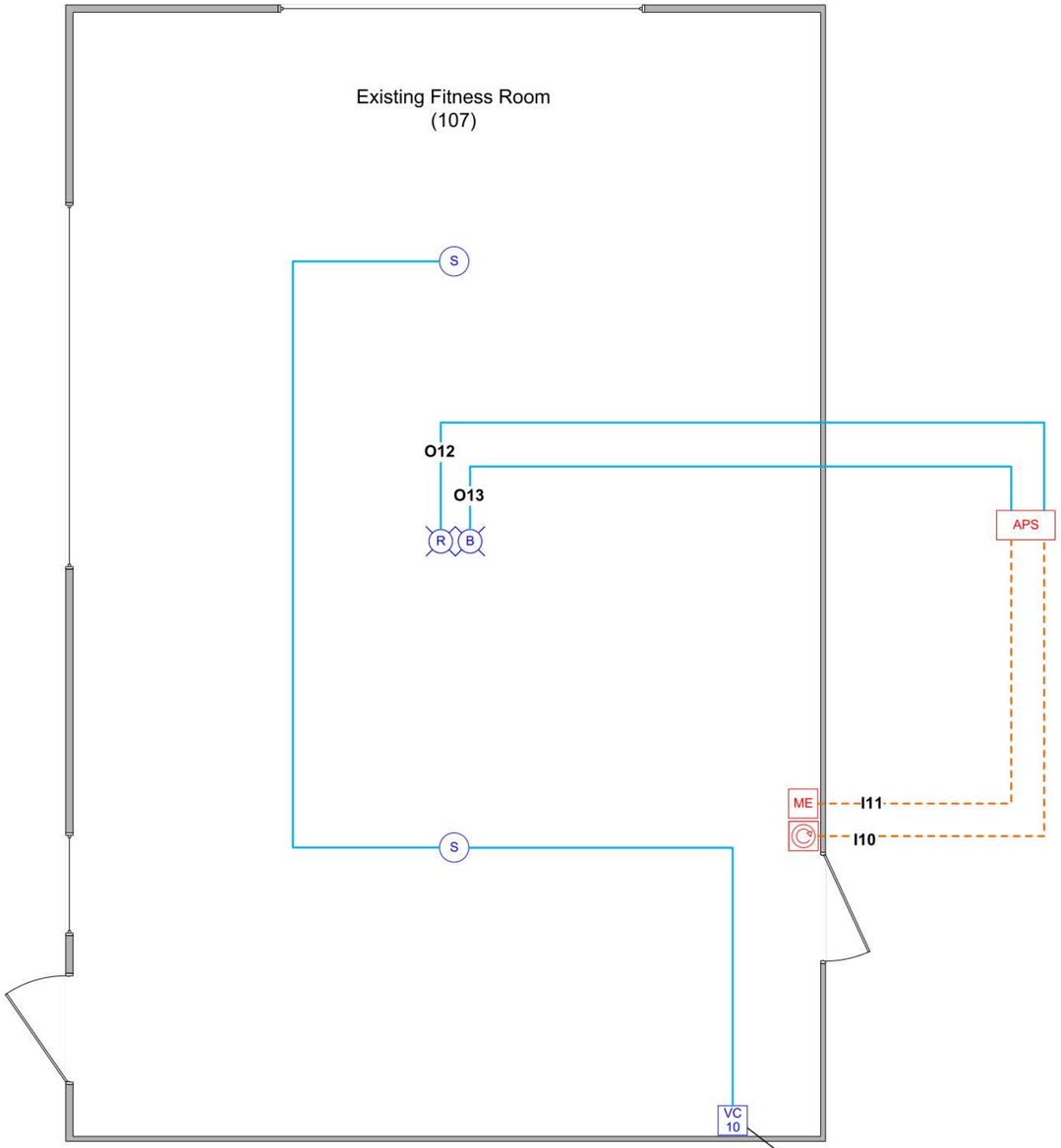
SHEET NUMBER:
FSA-10

4/17/2026 1:46:18 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

General Notes:

- Devices in blue are existing, and will be removed during demolition and saved for reuse.
- Existing wire will be removed, and new wiring will be run in these areas.



Wire Color Legend

16/2 -
16/4 -
18/2 OAS -
18/6 -
Cat6 -
22/6 -

APS Firehouse Alerting	
Fire Station Alerting System Solutions RF and Network Alerting (410) 239-4644 - FAX (410) 374-8870 115 Airport Drive, Suite 170 Westminster, MD 21157 www.firehousealerting.com	
DRAWING TITLE: *Gym*	
JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*	
JOB ADDRESS: *5525 New Design Road*	
CITY, STATE: *Frederick, MD 21703*	
DATE: *6-20-25*	SHEET NO. **FSA-11**
SCALE: *NOT TO SCALE*	
DRAWN BY:	
APPROVED BY:	

STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - GYM

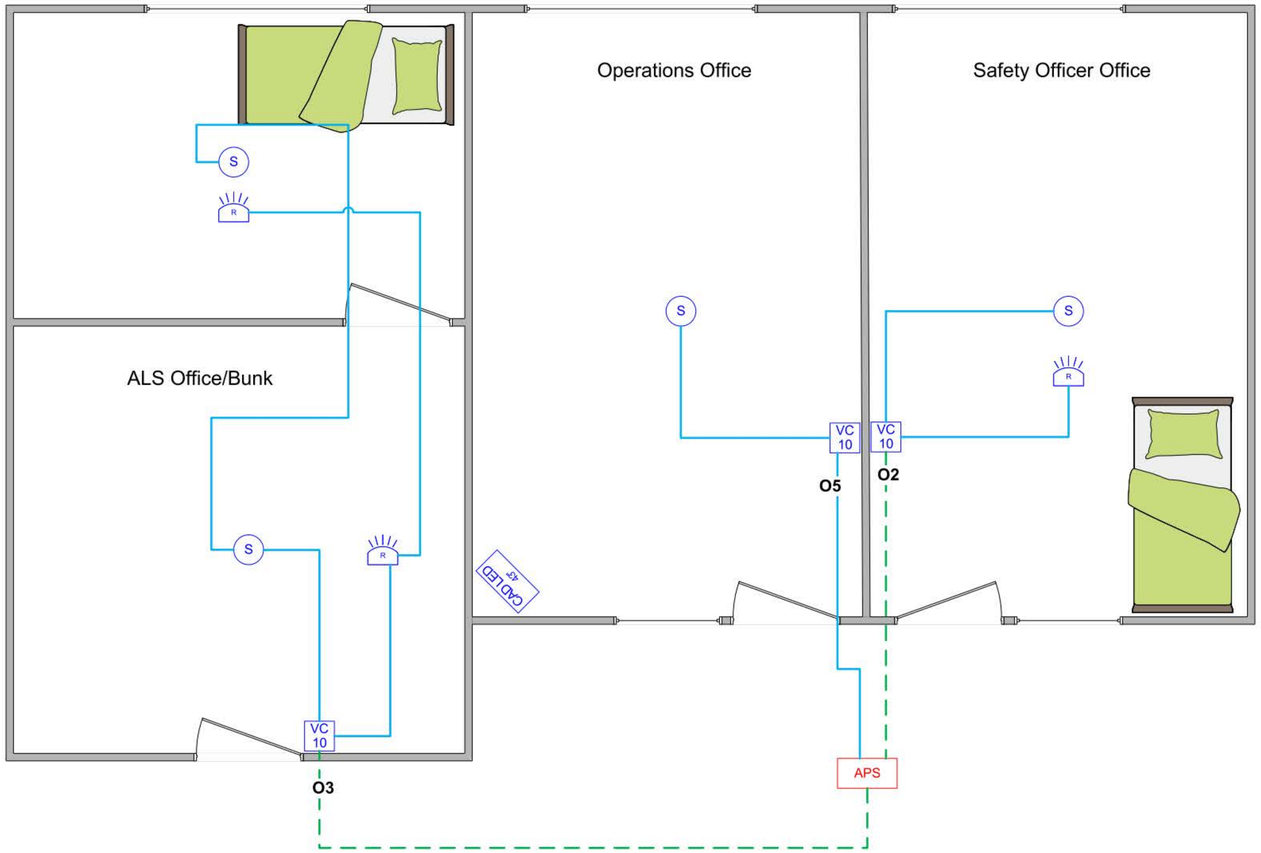
SHEET NUMBER:
FSA-11

4/17/2026 1:46:18 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

General Notes:

- Speakers and APS LED Cluster Lights shown in blue are existing devices removed during demolition, and will be re-used, and located as shown.
- Existing wire will be removed, and new wiring will be run in these areas.
- See FSA-15 for APS Display wiring.



Wire Color Legend

16/2 -
16/4 -
18/2 OAS -
18/6 -
Cat6 -
22/6 -

APS Firehouse Alerting

Fire Station Alerting System Solutions
RF and Network Alerting

(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Office Area*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-12**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - OFFICE

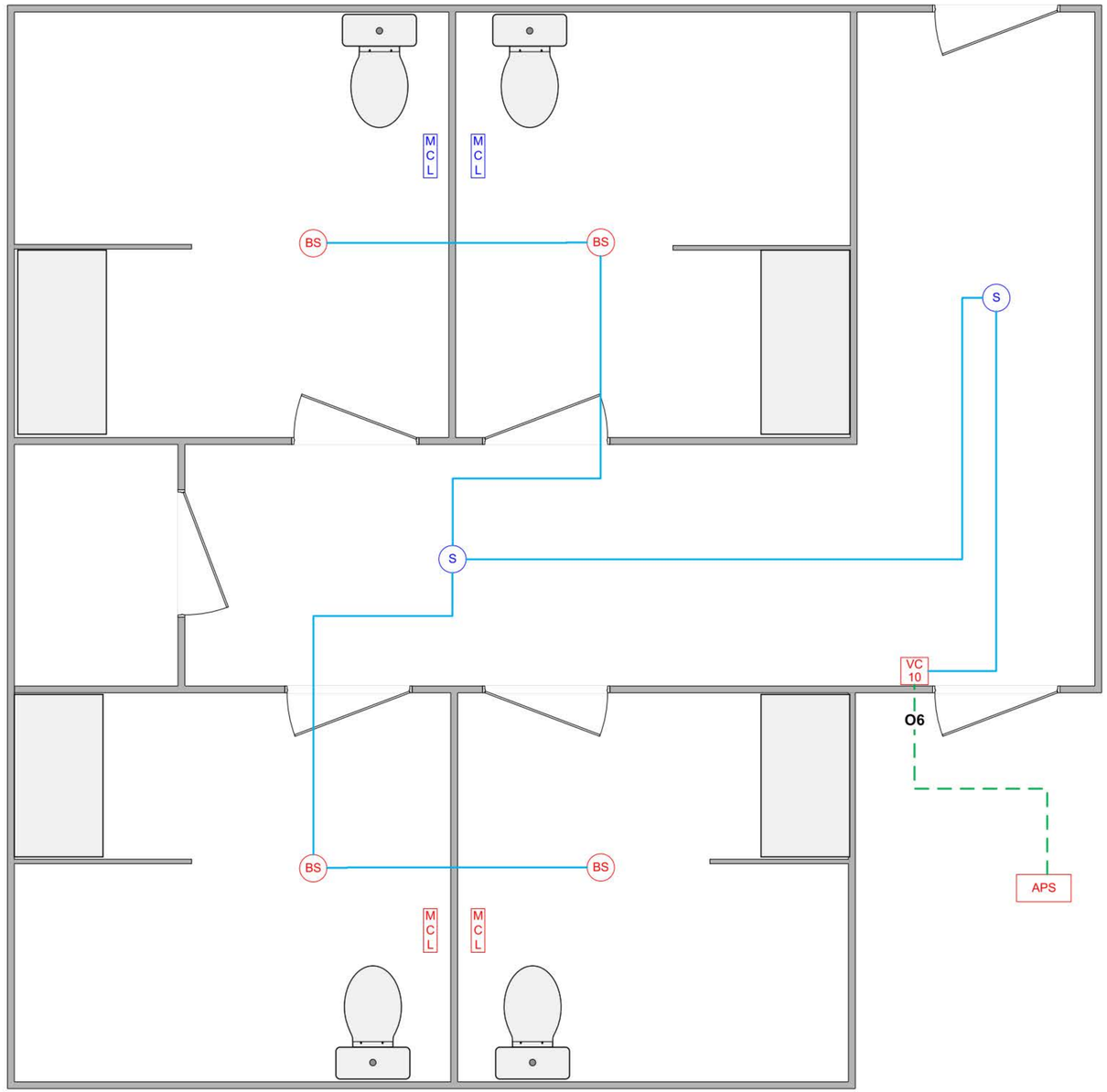
SHEET NUMBER:
FSA-12

4/17/2026 1:46:18 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

General Notes:

- All speakers shown in blue were removed during demolition and will be re-used, and located as shown.
- New multi-color lights (MCL) will be installed as shown. See FSA-15 for MCL wiring.



Wire Color Legend

- 16/2 -
- 16/4 -
- 18/2 OAS -
- 18/6 -
- Cat6 -
- 22/6 -

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting

(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Restrooms*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-13**

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

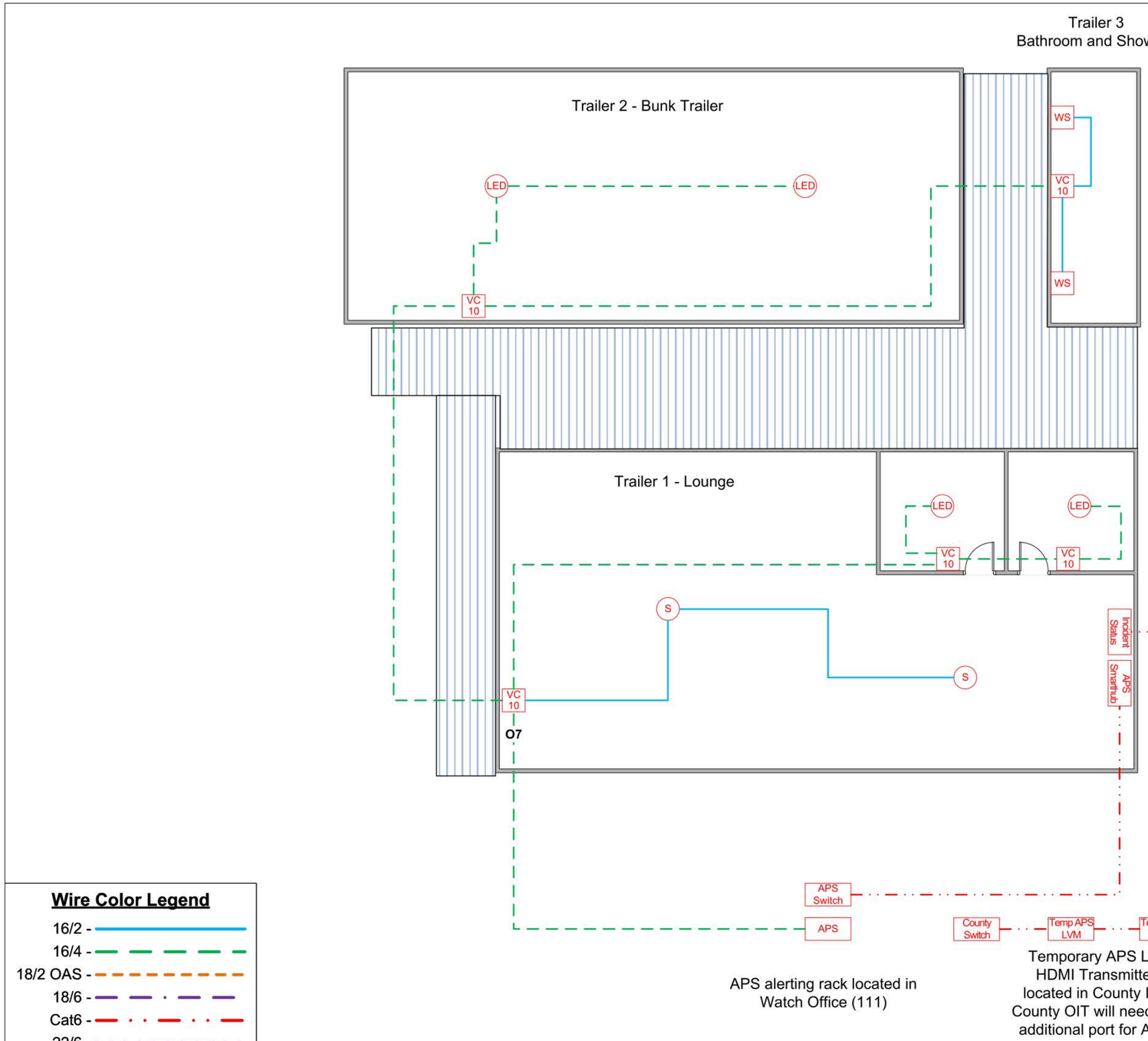
SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - TOILETS

SHEET NUMBER:
FSA-13

4/17/2026 1:46:19 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



APS alerting rack located in Watch Office (111)

Temporary APS LVM and HDMI Transmitter to be located in County IT closet. County OIT will need to assign additional port for APS LVM.

Wire Color Legend

- 16/2 -
- 16/4 -
- 18/2 OAS -
- 18/6 -
- Cat6 -
- 22/6 -

General Notes:

- Trailer 1 to have temporary conduit to accommodate CAT6 network and stranded wire for APS station alerting system devices.
- Trailers 2 and 3 to have temporary conduit to accommodate stranded wire for APS station alerting system devices.
- The location and quantity of devices shown may not be exact. Final location of all devices will be determined by interior floorplans of each trailer. Contractor to coordinate with APS Firehouse Alerting and OIT prior to installation.
- No stove or electrical appliance shut-off and resets will be installed.
- Existing TV's located in the station can be used in Trailer 2 for station alerting displays.
- **Existing 27U APS rack must remain active and connected to county network throughout demolition and construction. Any required interruptions must be coordinated with the County.**

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting

(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Trailers*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-14**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

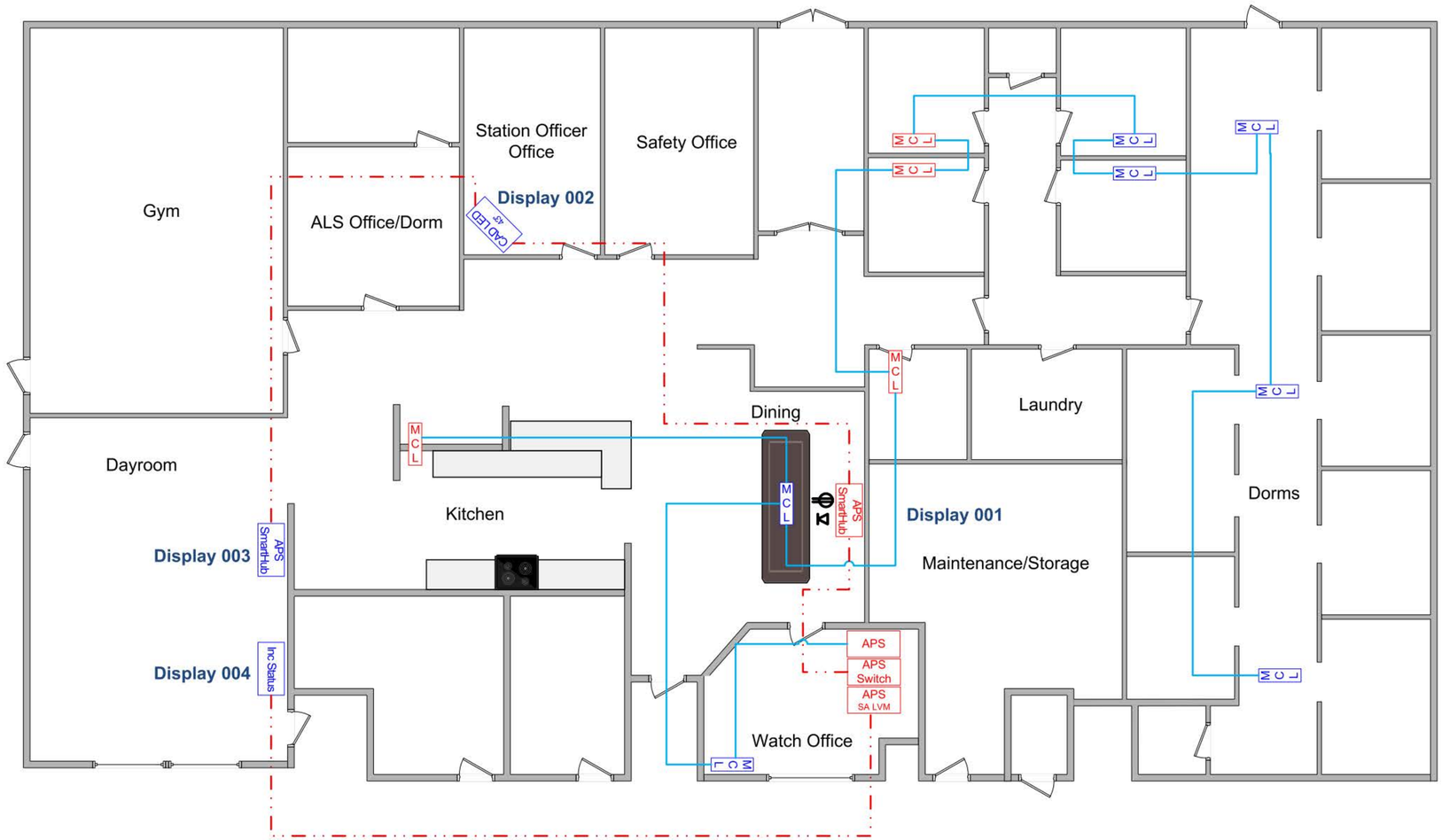
SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - TRAILERS

SHEET NUMBER: **FSA-14**

4/17/2026 1:46:19 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.



Wire Color Legend

- 16/2 -
- 16/4 -
- 18/2 OAS -
- 18/6 -
- Cat6 -
- 22/6 -

Duplex electrical outlet and RJ45 jack required at all Alerting Display locations

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting

(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *MCLs and Displays*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-15**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

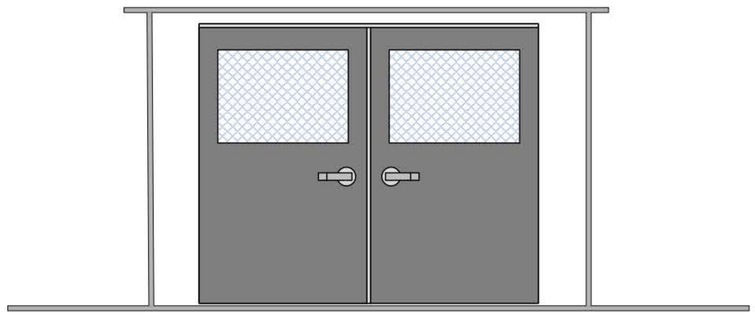
FIRE ALERT - MCLs & DISPLAYS

SHEET NUMBER:
FSA-15

4/17/2026 1:46:19 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

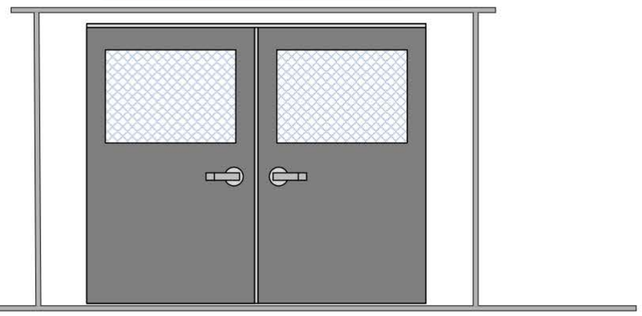




Typical Apparatus Bay Alerting Display Installation Above Doorways

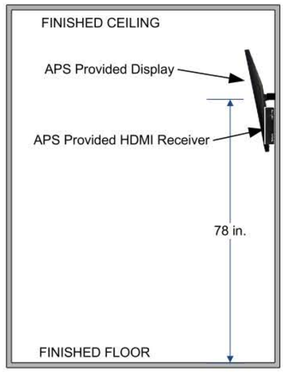
55-Inch Commercial Display

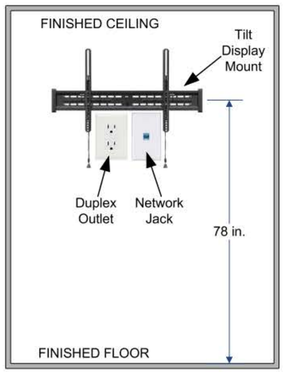




Alerting Display Locations and Size

Display 001 – FSA-14 – Dining Area – New 43"
Display 002 – FSA-14 – Station Officer Office – Existing TV
Display 003 – FSA-14 – Dayroom – Existing TV
Display 004 – FSA-14 – Dayroom – Existing TV
Display 005 – FSA-# – (Room) – Existing 55"





Typical Administrative or Living Area Alerting Display Mounting

Wire Color Legend

16/2 -
16/4 -
18/2 OAS -
18/6 -
Cat6 -
22/6 -

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting
(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Alerting Display Details*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-16**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
☎ 410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

ALERTING DISPLAY DETAILS

SHEET NUMBER:
FSA-16

4/17/2026 1:46:19 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.

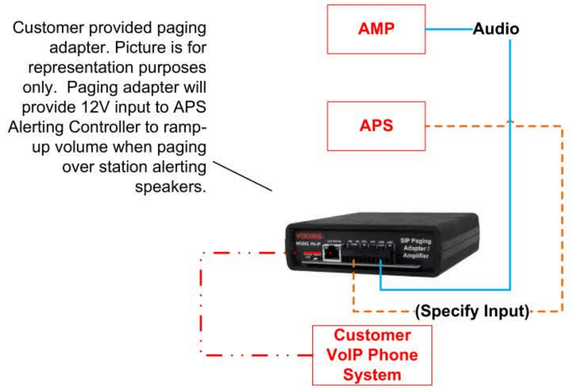
Fire department provided radio with line-level audio output. Radio to be located in rack in IT room with alerting equipment with customer provided external antenna



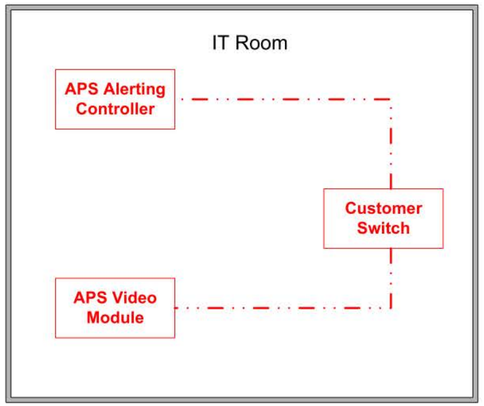
Radio shown for visual purposes only. Actual customer radio may vary. Customer to have proper connectors for radio that will provide line-level audio output to amplifier.



Customer provided paging adapter. Picture is for representation purposes only. Paging adapter will provide 12V input to APS Alerting Controller to ramp-up volume when paging over station alerting speakers.



Installer to run CAT6 network cable from customer's VoIP phone system controller to customer-provided paging adapter. Installer to run one 18/2 OAS stranded wire from paging adapter to APS Alerting Controller, and one, 18/2 stranded wire from paging adapter to APS amplifier input.



Installer to provide two, CAT6 network cables from customer's network switch. One cable to be connected to APS Alerting Controller. One cable to be connected to APS video module. Customer must provide static IP addresses, and configure ports per APS instructions prior to APS Technician being on-site.

Wire Color Legend

16/2 -
16/4 -
18/2 OAS -
18/6 -
Cat6 -
22/6 -

APS Firehouse Alerting
Fire Station Alerting System Solutions
RF and Network Alerting
(410) 239-4644 - FAX (410) 374-8870
115 Airport Drive, Suite 170
Westminster, MD 21157
www.firehousealerting.com

DRAWING TITLE: *Misc Details*

JOB NAME: *Westview Station 31 Renovation FHA Construction Drawing.*

JOB ADDRESS: *5525 New Design Road*

CITY, STATE: *Frederick, MD 21703*

DATE: *6-20-25*

SCALE: *NOT TO SCALE*

DRAWN BY:

APPROVED BY:

SHEET NO. **FSA-17**

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

CONSULTANT:

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: #15505
EXPIRATION DATE: 8-18-2026

WESTVIEW FIRE STATION 31
INTERIOR RENOVATION
5525 NEW DESIGN ROAD
FREDERICK, MD 21703

PROJECT NUMBER: 23-140

SUBMISSION:
CONSTRUCTION DOCUMENTS
ORIGINAL ISSUE DATE:
4/17/26

SHEET REVISION SCHEDULE:
No. DATE

FIRE ALERT - MISC DETAILS

SHEET NUMBER:
FSA-17

4/17/2026 1:46:20 PM

ALL DRAWINGS ARE PROTECTED BY FEDERAL COPYRIGHT BY MANNS WOODWARD STUDIOS, INC. AND CAN NOT BE REPRODUCED OR MODIFIED IN ANY MANNER WITHOUT WRITTEN PERMISSION. DOCUMENTS MAY NOT BE USED IN PART OR WHOLE TO DEVELOP THE DESIGN OF ANOTHER BUILDING WITHOUT EXPRESS WRITTEN PERMISSION BY MANNS WOODWARD STUDIOS.