VA RENOVATE SPACE FOR PATIENT IMPROVEMENTS

Department of Veterans Affairs Medical Center

VAMC - ASHEVILLE 1100 TUNNEL RD. ASHEVILLE, NC 28805 PROJECT #: 637-22-102

ABOVE GROUP, INC.
MECHANICAL ELECTRICAL PLUMBING STRUCTURAL
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PROJECT LOCATION

SHEET LIST	
SHEET NUMBER	**SHEET NAME**
GENERAL	
GI001	VA COVER SHEET
STRUCTURAL	
S-001	GENERAL NOTES AND ABBREVIATIONS
SS101	FIRST FLOOR FRAMING PLAN
S-301	CONCRETE DETAILS AND SECTIONS
ARCHITECTURAL	
AG-001	GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
AG-002	ENT/PODIATRY - OVERALL LIFE SAFETY PLAN
AG-003	ENT/PODIATRY - LIFE SAFETY PLAN
AD-101	ENT/PODIATRY OVERALL REMOVAL FLOOR PLAN
AD-102	ENT & POD REMOVAL FLOOR PLAN
AD-103	ENT & POD REMOVAL REFLECTED CEILING PLAN
A-101	ENT/PODIATRY OVERALL NEW WORK FLOOR PLAN
A-102	ENT & POD NEW WORK PLAN
A-103	ENT & POD NEW WORK REFLECTED CEILING PLAN
A-104	ENT & POD FINISH PLAN
A-105	ENT & POD EQUIPMENT PLAN
A-600	SCHEDULES, DETAILS & DIAGRAM
A-601	DETAILS
I-001	FINISH SELECTIONS
FIRE ALARM	
FA001	FIRE ALARM LEGENDS & SYMBOLS
FD101	FLOOR PLAN - FIRE ALARM - DEMO
FA101	FLOOR PLAN - FIRE ALARM - NEW WORK
FIRE PROTECTION	
FP001	FIRE PROTECTION LEGENDS & SYMBOLS
FX101	FIRST FLOOR PLAN - FIRE PROTECTION - DEMO
FP101	FIRST FLOOR PLANS - HAZARD CLASSIFICATION - NEW WORK
FP501	FIRE PROTECTION DETAILS
PLUMBING	
P-001	PLUMBING NOTES, LEGENDS, & SYMBOLS
PD101	BASEMENT FLOOR PLANS - DWV PIPING - DEMO
PD102	FIRST FLOOR PLANS - DWV PIPING - DEMO
PD111	FIRST FLOOR PLANS - PRESSURE PIPING - DEMO
PS101	BASEMENT FLOOR PLANS - DWV PIPING - NEW WORK
PS102	FIRST FLOOR PLANS - DWV PIPING - NEW WORK
PP101	FIRST FLOOR PLANS - PRESSURE PIPING - NEW WORK
P-601	PLUMBING ISOMETRICS
P-801	PLUMBING DETAILS AND SCHEDULES
MECHANICAL	
M-001	MECHANICAL NOTES, LEGENDS, & SYMBOLS
MD101	FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - ENT
MD102	FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - PODIATRY
MH101	FLOOR PLAN - MECHANICAL - NEW WORK
MP101	FLOOR PLAN - MECHANICAL PIPING - NEW WORK
M-501	MECHANICAL DETAILS
M-701	MECHANICAL CONTROLS
M-801	MECHANICAL SCHEDULES
ELECTRICAL	
E-001	ELECTRICAL LEGENDS & SYMBOLS
E-002	ELECTRICAL GENERAL NOTES
ED101	FLOOR PLAN - LIGHTING - DEMO
ED102	FLOOR PLAN - ELECTRICAL EQUIPMENT - DEMO
EL101	FLOOR PLAN - LIGHTING - NEW WORK
EP101	FLOOR PLAN - ELECTRICAL EQUIPMENT - NEW WORK
E-501	ELECTRICAL DETAILS
E-601	ELECTRICAL DIAGRAMS
E-801	ELECTRICAL SCHEDULES
TECHNOLOGY	
T-001	TECHNOLOGY LEGEND, ABBREVIATIONS, & GENERAL NOTES
TD101	TECHNOLOGY DEMOLITION PLAN
TN101	TECHNOLOGY FLOOR PLANS
T-001	TECHNOLOGY DETAILS
T-601	TECHNOLOGY DIAGRAMS
TOTAL SHEET COUNT : 56	

Autodesk Docs://0123039 - VAMC Asheville - Patient Improvements/0123039_VA Asheville - Patient Improve_R23_MEPFAFPT.rvt

3/12/2026 8:59:23 AM

Revisions	Date

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

Above Group ENGINEERING. DESIGN. CONSULTING.

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STAMP

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOSHUA CALHOUN — No. PE093004

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	VA COVER SHEET
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	47
Approved:	
Location	ASHEVILLE VAMC
Drawing Number	GI001
Issue Date	03/12/2026
Checked	JMC
Drawn	AJZ

FULLY SPRINKLERED

VA FORM 08 - 6231

GENERAL NOTES

GENERAL:

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS DURING THE COURSE OF THE WORK. DO NOT DAMAGE OR ENDANGER THE STRUCTURAL INTEGRITY OF THE WORK.
2. LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE.
3. NOTIFY COR AND ENGINEER IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, THESE NOTES, AND PROJECT MANUAL BEFORE PROCEEDING WITH THE WORK.
4. USE ARCHITECTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS TO PROPERLY PERFORM THE WORK.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING BETWEEN TRADES.
6. DO NOT SCALE DRAWINGS.
7. SECTIONS AND DETAILS SHOWN, WHILE DRAWN FOR SPECIFIC LOCATIONS, ARE INTENDED TO ESTABLISH THE GENERAL TYPES OF DETAILS WILL APPLY TO OTHER LOCATIONS.
8. THE ENGINEER'S REVIEW OF A SUBMITTAL SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO FOLLOW THE INTENT OF THE CONTRACT DRAWINGS.
9. REPRODUCTION OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS SHOP DRAWINGS.

RIGGING, HOISTING AND SCAFFOLDING REQUIREMENTS:

1. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE COR FOR REVIEW A SITE SPECIFIC RIGGING AND HOISTING PLAN FOR ALL MAJOR EQUIPMENT THAT WILL BE TRANSPORTED THROUGH OR HOISTED FROM THE BUILDING. THE PLAN SHALL INCLUDE THE SEQUENCE OF ERECTION, THE DESCRIPTION OF THE RIGGING, HOISTING AND TRANSPORTATION EQUIPMENT AND THE SITE PREPARATIONS THAT WILL BE NEEDED TO COMPLETE THE INSTALLATION.
2. THE PROPOSED RIGGING OR HOISTING PLAN SHALL BE REVIEWED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION. THE PROFESSIONAL ENGINEER SHALL PROVIDE A SIGNED AND SEALED CERTIFICATION STATING THAT THE PROPOSED PLAN WILL NOT DAMAGE OR OVERSTRESS THE STRUCTURE. SHORING AND SCAFFOLDING SHALL COMPLY WITH OSHA REGULATIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE LOADS SUPERIMPOSED BY THE RIGGING OR HOISTING SYSTEMS WILL NOT EXCEED THE FOLLOWING LOADS:
   FRAMED FLOORS = 80 PSF
   ROOFS = 20 PSF
4. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL FINISHES.

EXISTING CONSTRUCTION:

1. ABOVE GROUP, INC. HAS PREPARED THESE PLANS BASED ON A LIMITED AMOUNT OF FIELD EXPLORATION AND ON THE STRUCTURAL INFORMATION SHOWN IN DRAWINGS PREPARED BY SIX ASSOCIATES, INC. AND REYNOLDS, SMITH AND HILLS ARCHITECTS & ENGINEERS DATED 1964 (VA PROJECT #92-5152) AND FREEMAN/WHITE DATED 1998 (VA PROJECT #637-053). THE EXISTING MEMBER SIZES ARE NOTED (E) AND ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING MEMBERS SHOWN IN THE PLANS MATCH EXISTING AS BUILT CONDITIONS PRIOR TO PREPARING SHOP DRAWINGS. IF THE AS BUILT CONDITIONS DO NOT CONFORM TO THE INFORMATION SHOWN IN THE PLANS, OR IF ANY STRUCTURAL MEMBER IS FOUND TO BE IN POOR CONDITION, THE CONTRACTOR SHALL INFORM ENGINEER OF THE ACTUAL SIZES AND/OR CONDITION. RE-DESIGN AND ADDITIONAL FRAMING MAY BE REQUIRED IN THAT CASE.
2. ALL NEW PENETRATIONS THROUGH THE EXISTING FRAMED FLOORS SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS SHOWING ALL PROPOSED OPENINGS AND SHALL SUBMIT THESE FOR REVIEW AND APPROVAL PRIOR TO CUTTING ANY OPENINGS.
3. NEW PENETRATIONS SHOWN IN THE STRUCTURAL DRAWINGS ARE PRINCIPAL OPENINGS. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL, MEP AND TELECOMMUNICATION DRAWINGS FOR ALL PENETRATIONS.
4. ALL NEW PIPE AND DUCT PENETRATIONS SHALL BE LOCATED BY THE CONTRACTOR TO AVOID CONCRETE SLAB REINFORCEMENT AND SUPPORTING MEMBERS UNDER THE SLAB OR ROOF. IF CUTTING OF ANY REINFORCEMENT OR EXISTING SUPPORTING MEMBER CANNOT BE AVOIDED, THEN PRIOR TO CUTTING, THE CONTRACTOR SHALL PREPARE A DETAILED DRAWING SHOWING THE PROPOSED PENETRATION AND ALL THE AFFECTED REINFORCEMENT AND SUPPORTING MEMBERS AND SHALL SUBMIT THE DRAWING TO THE COR FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT CUT ANY REINFORCEMENT OR MEMBER WITHOUT THE PRIOR APPROVAL OF ENGINEER.

POST-INSTALLED ANCHORS:

1. DRILL AND INSTALL POST-INSTALLED ANCHORS ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND PER MANUFACTURER'S ON-SITE TRAINING.
2. ALL INSTALLERS OF POST-INSTALLED ANCHORS SHALL BE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFIED. SUBMIT CERTIFICATES FOR RECORD.
3. ALL POST-INSTALLED ANCHORS SHALL MEET ICC-ES COMPLIANCE FOR EACH TYPE OF APPLICATION.
4. SUBMIT PRODUCT INFORMATION AND ICC-ES EVALUATION REPORT FOR EACH ANCHOR.
5. ALL ANCHOR DESIGNS ARE FOR INSTALLATION IN THE FOLLOWING CONDITIONS, UNLESS NOTED OTHERWISE. WRITTEN APPROVAL MUST BE RECEIVED FROM ENGINEER PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN ALTERNATE CONDITIONS.
   A. DRY CONCRETE, UNLESS NOTED OTHERWISE.
   B. CONCRETE TEMPERATURE AT TIME OF INSTALLATION MUST BE BETWEEN 14° F AND 104° F. SEE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION FOR ADHESIVE GEL AND CURE TIMES.
   C. ANCHOR HOLES TO BE HAMMER DRILLED.
   D. ANCHOR HOLES TO BE CLEANED PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS PRIOR TO ADHESIVE INJECTION.
   E. ANCHORS/POST-INSTALLED REINFORCING SHALL NOT BE LOADED UNTIL CONCRETE OR GROUT HAS BEEN ALLOWED TO CURE FOR 21 DAYS AND/OR HAS ATTAINED 70% OF ITS DESIGN STRENGTH.
6. ALL POST-INSTALLED ANCHORS IN CONCRETE SHALL BE SUITED FOR USE IN SEISMIC AND CRACKED CONCRETE APPLICATIONS.
7. ADHESIVE ANCHORS IN CONCRETE SHALL BE HILTI HIT HY-200, OR APPROVED EQUAL.
8. EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI KWIK BOLT TZ2, OR APPROVED EQUAL.
9. PROVIDE STANDARD AISC HOLES IN ALL STEEL MEMBERS RECEIVING POST-INSTALLED ANCHORS. IF OVERSIZED HOLES ARE PROVIDED TO EASE INSTALLATION OF THE ANCHORS, A PLATE WASHER (1/4"X2"X2") WITH AN AISC STANDARD HOLE SHALL BE INSTALLED AND 1/8" FILLET WELDED (ALL AROUND) TO THE MEMBER.
10. ALL ANCHORS AND REINFORCING SHALL BE INSTALLED IN ACCORDANCE WITH THE SPACING AND EDGE DISTANCES SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL INFORM THE COR PRIOR TO INSTALLING THE ANCHORS IF THE SPACING AND EDGE DISTANCES SHOWN IN THE DRAWINGS CANNOT BE ACHIEVED. IF THIS IS THE CASE, RE-DESIGN MIGHT BE REQUIRED AND THE ANCHORS SHOULD NOT BE INSTALLED UNTIL APPROVAL HAS BEEN PROVIDED BY THE COR AND ENGINEER.
11. DO NOT CUT ANY REINFORCING UNLESS IT IS SPECIFICALLY INDICATED IN THE DRAWINGS OR IS APPROVED BY THE ENGINEER.
12. POST INSTALLED ANCHORS AND REINFORCING SHALL ONLY BE USED WHERE SPECIFIED IN THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE COR AND ENGINEER PRIOR TO INSTALLING POST INSTALLED ANCHORS WHERE CAST-IN PLACE ANCHORS ARE MISSING, MISPLACED OR DAMAGED.

DESIGN CODES:

VA PG-18-10 STRUCTURAL DESIGN MANUAL
(OCT 1, 2022, REV JULY 1, 2023)

VA HANDBOOK H-18-8 VA SEISMIC DESIGN REQUIREMENTS FOR VA HOSPITAL FACILITIES (JULY 1, 2023)

INTERNATIONAL BUILDING CODE:
IBC 2021

INTERNATIONAL EXISTING BUILDING CODE:
IEBC 2021

MINIMUM BUILDING DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES:
ASCE 7-22

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE:
ACI 318-19

BUILDING CODE AND SPECIFICATION FOR MASONRY STRUCTURES:
TMS 402/602-16

SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS:
AISC 14TH EDITION 360-16

DESIGN CRITERIA:

RISK CATEGORY IV

FLOOR LIVE LOADS:

ADMINISTRATIVE SERVICES, OFFICE AREAS	80 PSF
CLINICAL AND SUPPORT SERVICES	80 PSF
CORRIDOR	100 PSF
LIGHT STORAGE	125 PSF
MECHANICAL ROOMS	150 PSF
PARTITIONS	20 PSF

(NOT REQUIRED WITH LIVE LOAD OF 100 PSF OF HIGHER)

SEISMIC DESIGN DATA:

SOIL SITE CLASS ASSUMED SITE CLASS D
SEISMIC DESIGN CATEGORY D
SEISMIC IMPORTANCE FACTOR, Ie = 1.5

MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
Ss = 0.350g
S1 = 0.098g

DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
Sds = 0.270g
Sd1 = 0.140g

STRUCTURAL ABBREVIATIONS

ABBR.	DESCRIPTION
AB	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJACENT, ADJUSTMENT
A/E	ARCHITECT/ENGINEER
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ANCH	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	ENGINEERED WOOD ASSOCIATION
APRX	APPROXIMATE
AR	ANCHOR ROD
ARCH	ARCHITECT(URAL)
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASD	ALLOWABLE STRESS DESIGN
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWC	AMERICAN WOOD COUNCIL
AWPA	AMERICAN WOOD PROTECTION AGENCY
AWS	AMERICAN WELDING SOCIETY
AVG	AVERAGE
B	BOTTOM
B/	BOTTOM OF
B-B	BACK-TO-BACK
BAL	BALANCE
BEL	BELOW
BF	BRACED FRAME
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE, BEARING PLATE
BR	BRACE(ING)
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BS	BOTH SIDES
BSMT	BASEMENT
BT	BENT
BTWN	BETWEEN
BYD	BEYOND
C	STEEL CHANNEL
CAIS	CAISSON
CALC	CALCULATION
CANT	CANTILEVER
CAP	CAPACITY
C-C	CENTER-TO-CENTER
CE	CONCRETE ENCASED
CFM	COLD FORMED METAL
CHAM	CHAMFER
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL/CONTRACTION JOINT
CL	CENTERLINE, COLUMN LINE
CLG	CEILING
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINED
COMP	COMPOSITE
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COV	COVER
CP	CAP PLATE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSK	COUNTERSUNK
CTR	CENTER(ED)
CY	CUBIC YARD
CYL	CYLINDER
d	PENNY (AS IN NAIL, ld)
DBL	DOUBLE
DD	DESIGN DEVELOPMENT
DEF	DEFLECTION
DEG	DEGREE
DEMO	DEMOLITION/DEMOLISH
DEPR	DEPRESS(ED)/DEPRESSION
DET(S)	DETAIL(S)
DEV	DEVELOP/DEVELOPMENT
DIA	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DIR	DIRECTION
DK	DECK
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DP	DEEP
DWG(S)	DRAWING(S)
DWL	DOWEL
(E)	EXISTING
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT/EMBEDDED
ENGR	ENGINEER
EO	EDGE OF
EOD	EDGE OF DECK
EOM	EDGE OF MASONRY
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
ES	EACH SIDE
EXCAV	EXCAVATE/EXCAVATION
EXP	EXPANSION
EXT	EXTERIOR
EXIST	EXISTING
EW	EACH WAY
F/	FACE OF
FAB	FABRICATE
FB	FLAT BAR
FBO	FURNISHED BY OTHERS
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH(ED)
FL(R)	FLOOR
FLG	FLANGE
FND	FOUNDATION
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIREPROOFING
FRMG	FRAMING
FRP	FIBER-REINFORCED POLYMER
FRT	FIRE RETARDANT TREATED
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FUT	FUTURE
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZE(D)
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GLB	GLUE LAMINATED BEAM
GR	GRADE
GYP	GYPSUM
HD	HEAVY DUTY
HDR	HEADER
HEF	HORIZONTAL EACH FACE
HGR	HANGER
HI	HIGH
HIF	HORIZONTAL INSIDE FACE
HK	HOOK(ED)
HOF	HORIZONTAL OUTSIDE FACE
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH STRENGTH
HT	HEIGHT
H&V	HORIZONTAL & VERTICAL
HVAC	HEATING, VENTILATING & AIR CONDITIONING
IBC	INTERNATIONAL BUILDING COUNCIL
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IF	INSIDE FACE
IFC	ISSUE FOR CONSTRUCTION
IN	INCH
INCL	INCLUDE(D)(ING)
INFO	INFORMATION
INSTL	INSTALL/INSTALLATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT(ED)
JST(S)	JOIST(S)
JT	JOINT
K	KIP (THOUSAND POUNDS)
KB	KNEE BRACE
KSI	KIPS PER SQUARE INCH
LB, #	POUND
LDGR	LEDGER (BOARD)
LEN	LENGTH
LG	LONG
LL	LIVE LOAD
LLBB	LONG LEGS BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOCN	LOCATION
LONGIT	LONGITUDINAL
LP	LOW POINT
LRFD	LOAD AND RESISTANCE FACTOR DESIGN
LSL	LONG SLOTTED HOLE, LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
LW	LONG WAY
LWC	LIGHT WEIGHT CONCRETE
M	MOMENT
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MONO	MONOLITHIC
MPH	MILES PER HOUR
MTL	METAL
NA	NOT APPLICABLE
NDS	NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
O-O	OUT-TO-OUT
OPG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OSL	OUTSTANDING LEG, ORIENTED STRAND LUMBER
OVS	OVERSIZED HOLE
PAF	POWDER ACTUATED FASTENER
PC	PRECAST CONCRETE, PIECE
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PERP	PERPENDICULAR
PREFAB	PREFABRICATE(D)
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PMF	PREMOLDED FILLER
PROJ	PROJECT(ION)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESERVATIVE-TREATED, POST-TENSIONED
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RADIUS
RCMU	REINFORCED CONCRETE MASONRY UNIT
RCSC	RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS
RD	ROOF DRAIN
RDK	ROOF DECK
REF	REFERENCE
REINF	REINFORCE(D)/REINFORCEMENT
REQ(D)	REQUIRE(D)
RET	RETAINING
REV	REVISE(D)/REVISION
RO	ROUGH OPENING
RQMT(S)	REQUIREMENT(S)
RTU	ROOFTOP UNIT
RXN	REACTION
SAN	SANITARY
SC	SLIP-CRITICAL (CONNECTION)
SCHED	SCHEDULE
SECT	SECTION
SD	STORM DRAIN
SDI	STEEL DECK INSTITUTE
SF	SQUARE FOOT
SHRG	SHORING
SHTHG	SHEATHING
SIM	SIMILAR
SL	SLOPE(D)
SLBB	SHORT LEGS BACK TO BACK
SLV	SLEEVE
SOD	SLAB ON DECK
SOG	SLAB ON GRADE
SPA	SPACE(S)/SPACING
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLE
STD	STANDARD
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
STRUC	STRUCTURAL
SUPT	SUPPORT
SW	SHORT WAY, SHEAR WALL
SYM	SYMMETRICAL
T	TOP
T/	TOP OF
T&B	TOP AND BOTTOM
TB	TRUSS BEARING
TC	TERRA COTTA
TEMP	TEMPORARY,TEMPERATURE
T&G	TONGUE AND GROOVE
THD	THREAD(ED)
THK	THICK(NESS)
TMS	THE MASONRY SOCIETY
TOS	TOP OF SLAB
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
U-P	UNDERPINNING
V	SHEAR
VAR	VARIES
VB	VAPOR BARRIER
VEF	VERTICAL EACH FACE
VERT	VERTICAL
VIF	VERTICAL INSIDE FACE, VERIFY IN FIELD
VOF	VERTICAL OUTSIDE FACE
VR	VAPOR RETARDER
W/	WITH
W/O	WITHOUT
WD	WOOD
WI	WROUGHT IRON
WP	WORK POINT, WATERPROOFING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XS	EXTRA STRONG
XXS	DOUBLE EXTRA STRONG
Ø	DIAMETER
±	PLUS OR MINUS

SHEET LIST

Sheet Number	Sheet Name
S-001	GENERAL NOTES AND ABBREVIATIONS
SS101	FIRST FLOOR AND LOW ROOF FRAMING PLAN
S-301	CONCRETE DETAILS AND SECTIONS

Revisions | Date

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

Above Group
ENGINEERING. DESIGN. CONSULTING.
SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS CERTIFIED

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STAMP

STATE OF MARYLAND · RICHARD A. STERNER · 21708 · 4548 · PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERAL NOTES AND ABBREVIATIONS

Phase: FINAL BID DOCUMENTS

Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS

Project Number: VA Project No. 637-22-102; AG Project No. 0123039

Building Number:

Approved:

FULLY SPRINKLERED

Location: ASHEVILLE VAMC

Issue Date: 03/12/2026 | Checked: RAS | Drawn: SLS

Drawing Number: S-001

Autodesk Docs://0123039 - VAMC Asheville - Patient Improvements/0123039_VA Asheville - Patient Improve_R23_S.rvt
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VA FORM 08 - 6231

DRAWING NOTES

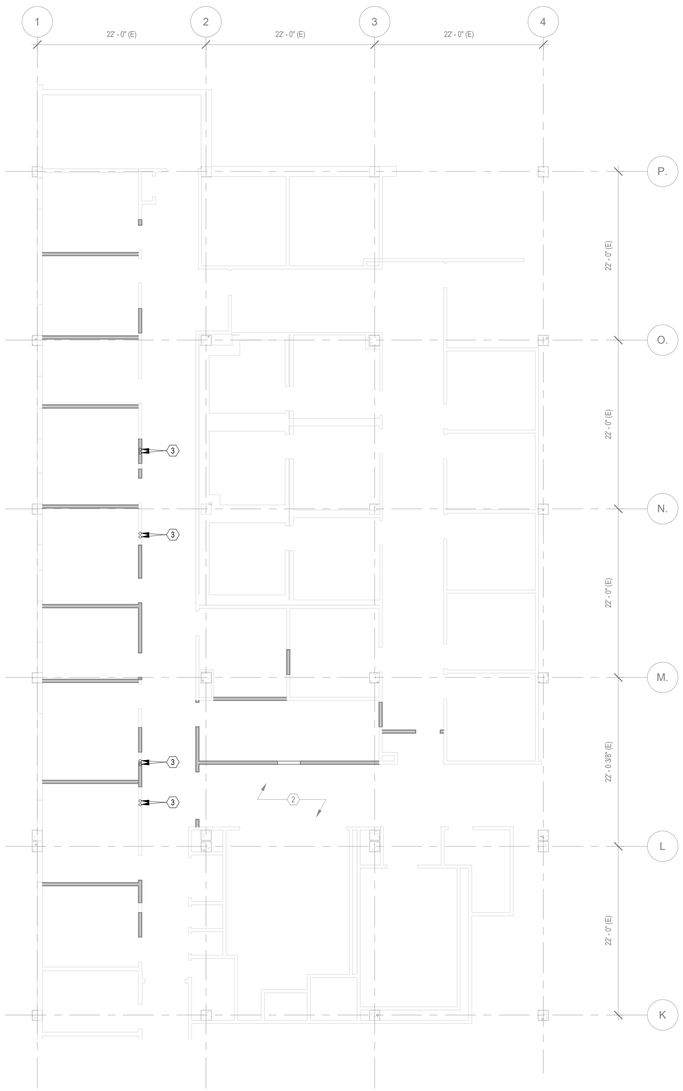
1. TOP OF FIRST FLOOR ELEVATION IS 228' - 0" UNLESS OTHERWISE NOTED ON PLAN.
2. TOP OF ROOF SLAB ELEVATION IS 238' - 8 5/8".
3. LOCATIONS OF NEW PIPING PENETRATIONS IN EXISTING STRUCTURE ARE TO BE COORDINATED TO AVOID EXISTING STRUCTURAL MEMBERS. GPR SCANNING IS TO BE PERFORMED TO AVOID CUTTING EXISTING SLAB REBAR AND/OR IN SLAB CONDUIT. IF A STRUCTURAL MEMBER OR REBAR IS ENCOUNTERED AT THE DESIRED PENETRATION LOCATION, THE PIPE MAY NEED TO BE ROUTED TO AN ADJACENT CHASE. THE PLUMBING FIXTURE CHANGED FROM FLOOR MOUNTED TO WALL MOUNTED, OR THE FIXTURE MAY NEED TO BE MOVED AND A CHASE MAY NEED TO BE ADDED.

CODED NOTES

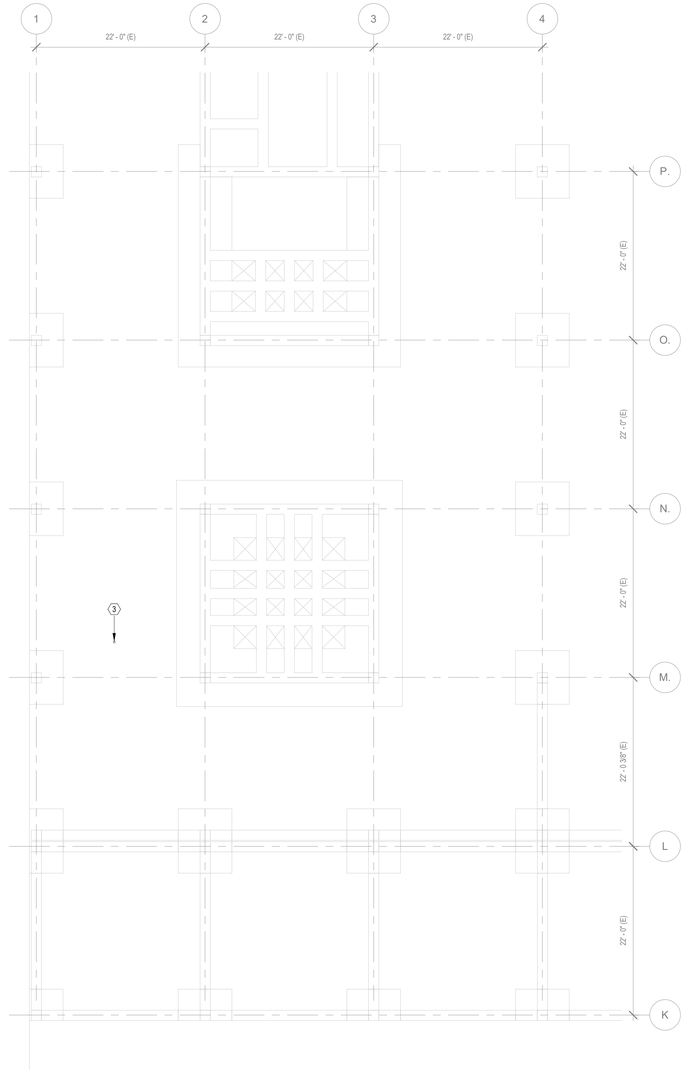
(1) EXISTING 3 1/2" LIGHTWEIGHT CONCRETE ON 2" COMPOSITE METAL DECK.

(2) EXISTING 9 1/2" THICK SLAB WITH 3 1/2" DROP PANELS.

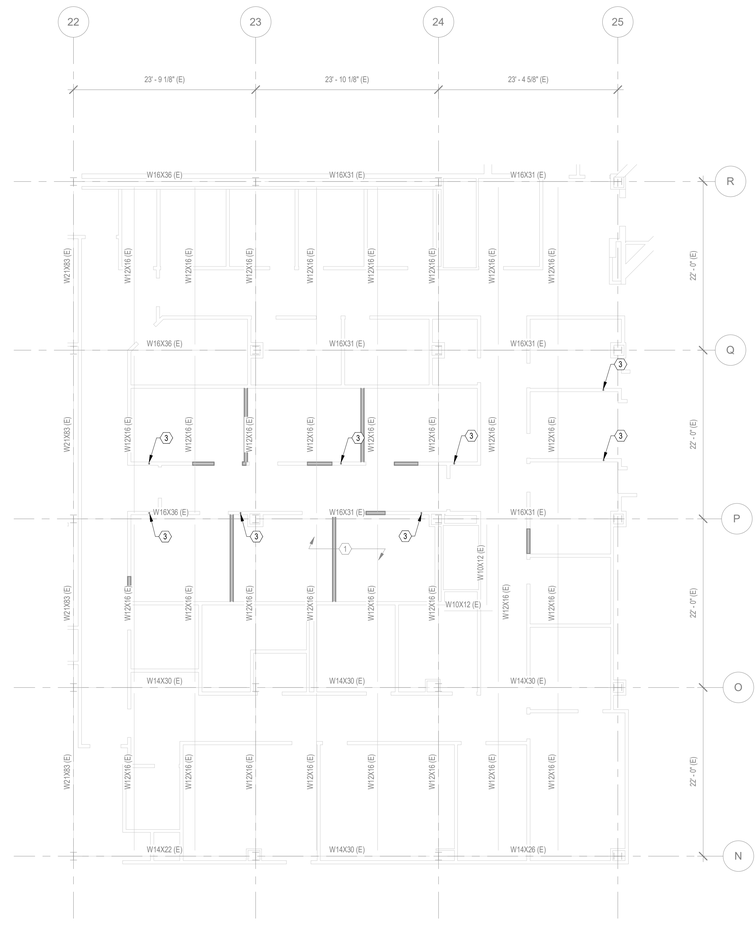
(3) PIPE PENETRATION, REFER TO PLUMBING DRAWINGS.



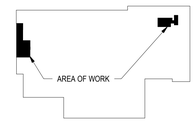
1 FIRST FLOOR FRAMING PLAN - ENT
1/8" = 1'-0"



3 FIRST FLOOR ROOF FRAMING PLAN - ENT
1/8" = 1'-0"



2 FIRST FLOOR FRAMING PLAN - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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VA U.S. Department of Veterans Affairs

Drawing Title	FIRST FLOOR AND LOW ROOF FRAMING PLAN
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Location	ASHEVILLE VAMC
Issue Date	03/12/2026
Checked	RAS
Drawn	SLS
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	47
Drawing Number	SS101

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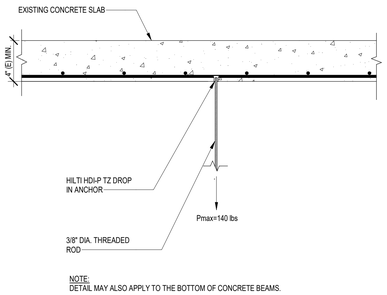

NOTE:
DETAIL MAY ALSO APPLY TO THE BOTTOM OF CONCRETE BEAMS.

1 SECURE HANGING RODS IN CONCRETE
N.T.S.

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VA U.S. Department of Veterans Affairs

Drawing Title: CONCRETE DETAILS AND SECTIONS	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number
		Issue Date: 03/12/2026 / Checked: RAS / Drawn: SLS	Drawing Number: S-301

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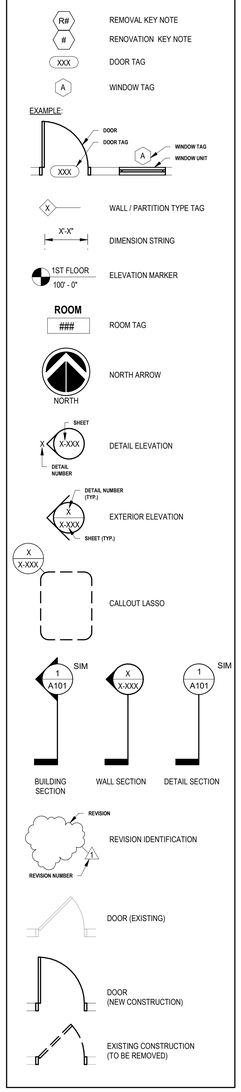
ABBREVIATIONS

A	
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ANOD	ANODIZED
@	AT
B	
BLKG	BLOCKING
C	
CAB	CABINET
CCT	CUBICLE CURTAIN TRACK
CG	CORNER WALL GUARD
CLG	CEILING
CLO	CLOSET
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
CORR	CORRIDOR
CSS	CLINICAL SERVICE SINK
CPT	CARPET
CT	CERAMIC TILE
D	
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DR	DOOR
DWG	DRAWING
DWR	DRAWER
E	
EA	EACH
EG	END WALL GUARD
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR/ ELEVATION
EMER	EMERGENCY
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXT	EXTERIOR
F	
FA	FIRE ALARM
FT	FEET/ FOOT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHS	FIRE HOSE STATION (CABINET)
FHV	FIRE HOSE VALVE CABINET
FLR	FLOOR(ING)
FLUOR	FLUORESCENT
FR	FRAME
FVC	FIRE VALVE CABINET
G	
GALV	GALVANIZE(D)
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GOVT	GOVERNMENT
GWB	GYPSUM WALL BOARD
H	
HC	HOLLOWCORE
HDW	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
I	
IB	INTEGRAL BASE
ID	INSIDE DIAMETER
IN	INCH(ES)
INT	INTERIOR
INTEG	INTEGRAL
INTLK	INTERLOCK
L	
LAM	LAMINATE(D)
LAV	LAVATORY
LB	POUND
LT	LENGTH
LH	LEFT HAND
LHRB	LEFT HAND REVERSE BEVEL
LOCK	LOCKERS
LVR	LOUVER
M	
MA	MEDICAL AIR
MAX	MAXIMUM
MED	MEDICAL/MEDICATIONS
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL

N	
N	NORTH/ NITROGEN
NC	NURSE CALL
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
O/OX	OXYGEN
OPG	OPENING
P	
PL	PLATE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PR	PAIR
PNT	PAINT(ED)
PRT	PARTITION
R	
RB	RESILIENT BASE
REQ	REQUIRED
RESIL	RESILIENT
REV	REVISED
RH	RIGHT HAND
RHRB	RIGHT HAND REVERSE BEVEL
RO	ROUGH OPENING
S	
S	SOUTH
SCW	SOLID CORE WOOD
SEAL	SEALANT
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SQ	SQUARE
SSM	SOLID SURFACE MATERIAL
SS	STAINLESS STEEL
SSV	SEAMLESS SHEET VINYL
STL	STEEL
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURAL
SV	SHEET VINYL
T	
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK(NESS)
TOC	TOP OF CURB
TOIL	TOILET
TOS	TOP OF SLAB/ TOP OF STEEL
TPTN	TOILET PARTITION
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
TZ	TERRAZZO
U	
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
V/F	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W	
W	WEST
W/	WITH
WC	WATER CLOSET/ WATER COOLER/ WALL COVERING
WD	WOOD
WG	WIRE GLASS
WH	WALL HUNG
W/O	WITHOUT
WP	WATERPROOF(ING)
WR	WATER RESISTANT
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
WT	WEIGHT

ANNOTATION SYMBOLS LEGEND:



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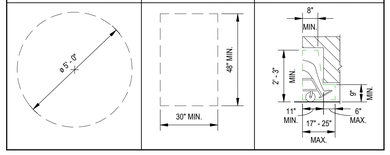
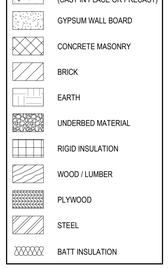


HATCH LEGEND



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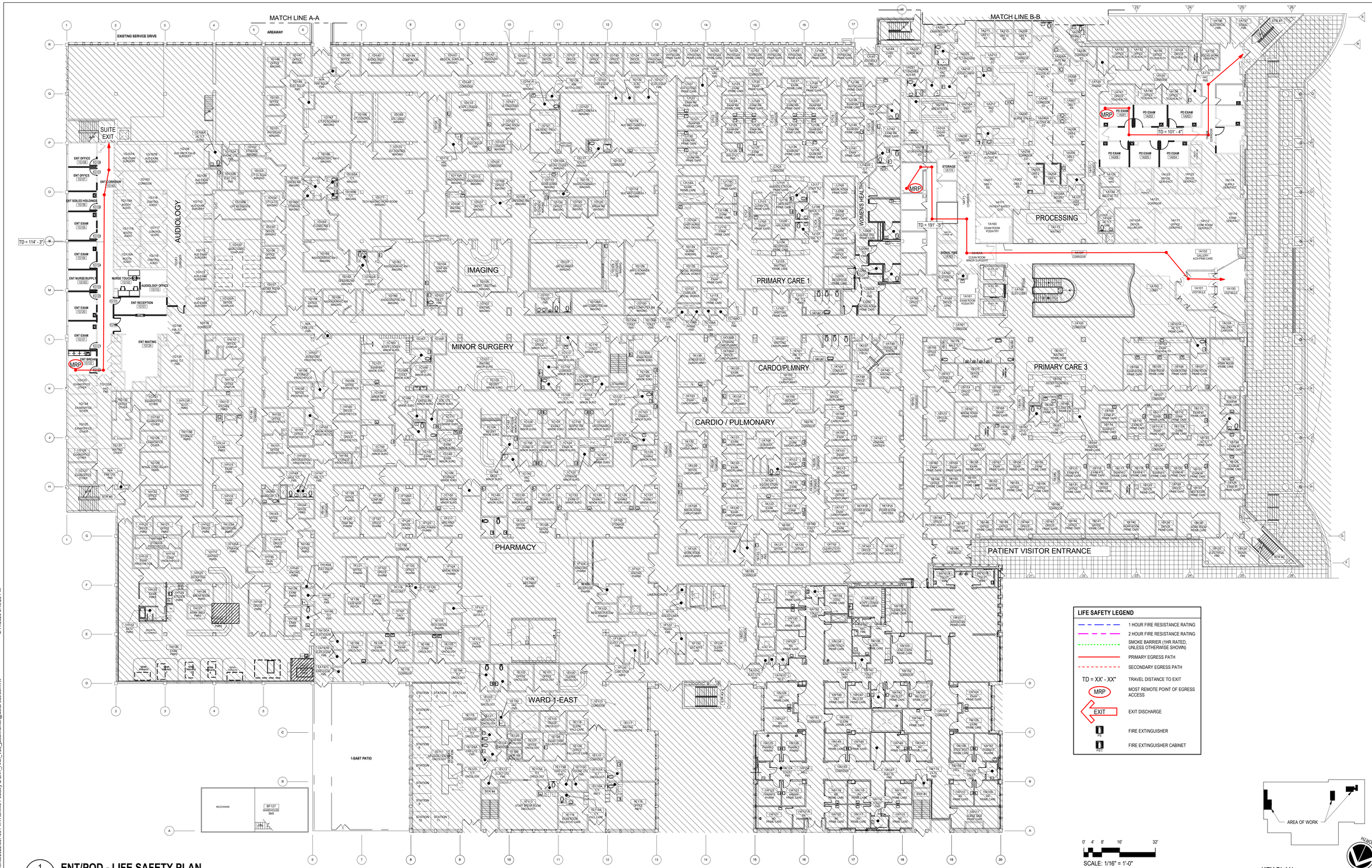
Drawing Title	GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	637-22-102
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	ASHEVILLE VAMC
Issue Date	03.12.2026
Checked	EJL
Drawn	JDH
Drawing Number	AG-001



1 AG-002 **ENT/POD - LIFE SAFETY PLAN**

SCALE: 1/16" = 1'-0"

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VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
ENT/PODIATRY - OVERALL LIFE SAFETY PLAN	FINAL BID DOCUMENTS	RENOVATE SPACE FOR PATIENT IMPROVEMENTS	637-22-102
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number
		Issue Date: 03.12.2026 / Checked: EJL / Drawn: JDH	Drawing Number: AG-002

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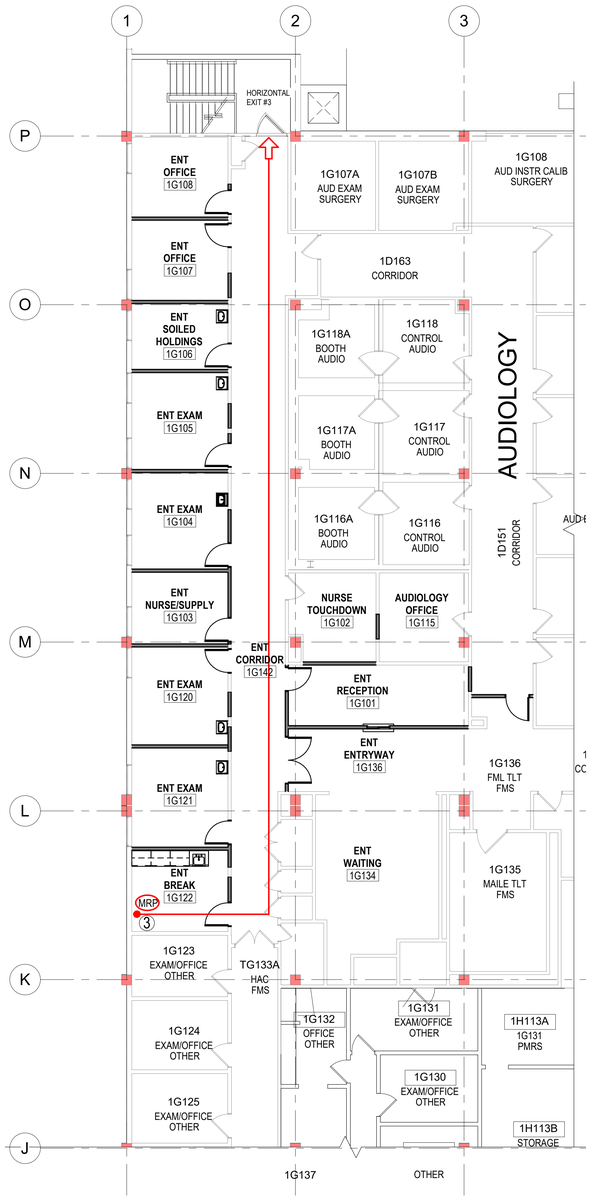
APPLICABLE CODES	
BUILDING CODE:	2021 IBC
STRUCTURAL CODE:	*ACI 318-14 Building Code Requirements for Structural Concrete* *ACI 530-13 Building Code Requirements for Masonry Structures* *ASCE 7-10 Minimum Design Loads for Buildings & Other Structures* *AISC 360-10 Specification for Structural Steel Buildings*
ACCESSIBILITY CODE:	*ICC/ANSI A117.1-09 Accessible and Usable Buildings and Facilities*
ENERGY CODE:	2021 International Energy Conservation Code
FIRE CODE:	2018 NFPA Life Safety Code 101 2018 NFPA 1 Fire Code
MECHANICAL CODE:	2021 International Mechanical Code
PLUMBING CODE:	2021 International Plumbing Code 2021 Fuel Gas Code
ELECTRICAL CODE:	2020 National Electric Code (NFPA 70, National Electrical Code)

Note: Refer to each trades respected general sheets for additional code information.

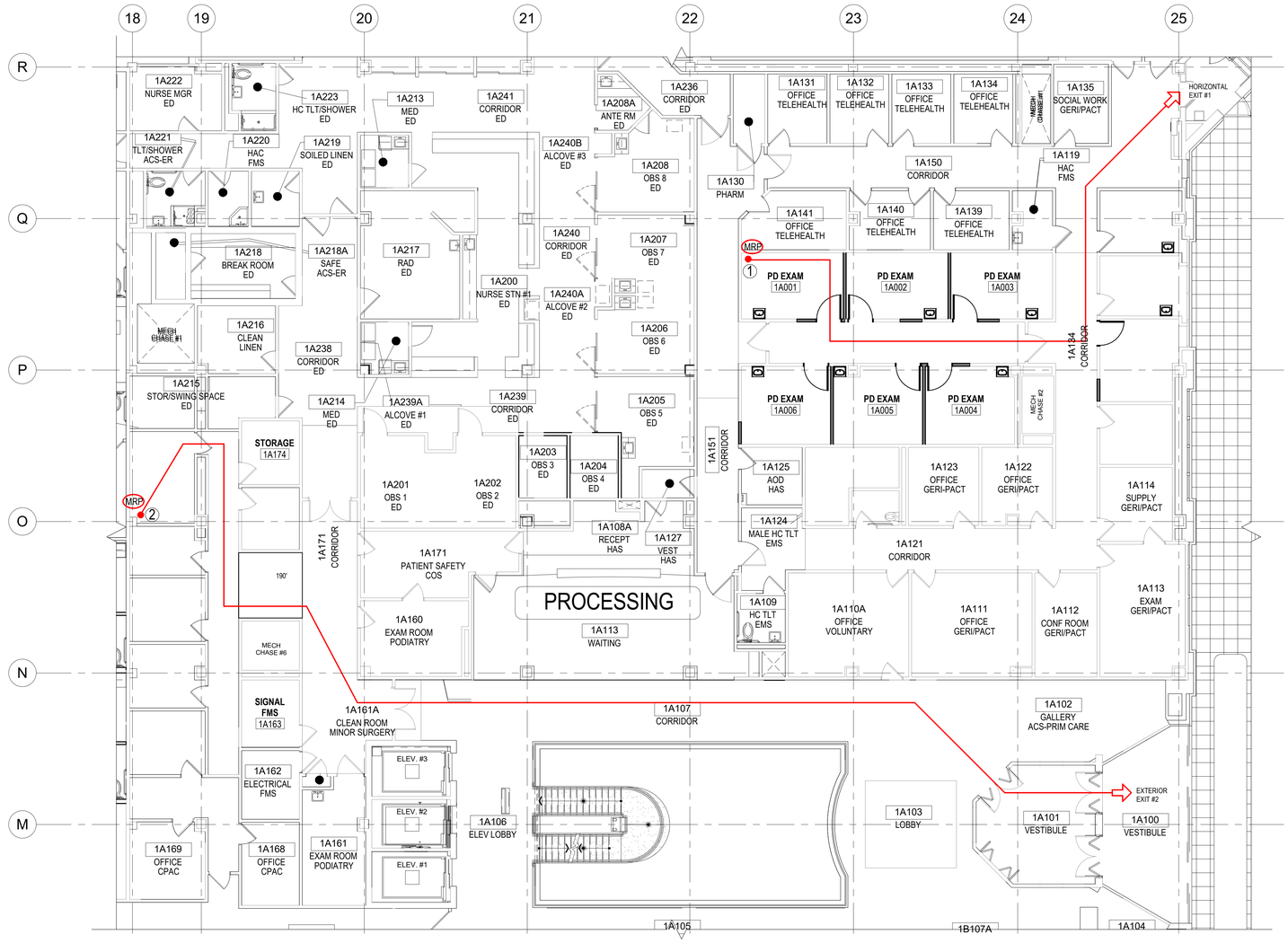
LIFE SAFETY LEGEND

- 1 HOUR FIRE RESISTANCE RATING
- 2 HOUR FIRE RESISTANCE RATING
- SMOKE BARRIER (1HR RATED, UNLESS OTHERWISE SHOWN)
- PRIMARY EGRESS PATH
- SECONDARY EGRESS PATH
- TD = XX' - XX" — TRAVEL DISTANCE TO EXIT
- MRP — MOST REMOTE POINT OF EGRESS ACCESS
- EXIT — EXIT DISCHARGE
- FE — FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET



1 AG-003 **ENT ENLARGED LIFE SAFETY PLAN**

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



2 AG-003 **PODIATRY ENLARGED LIFE SAFETY PLAN**

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

EGRESS

COMPONENT		OCCUPANCY B	OCCUPANCY I-2	CODE REF.
EXIT ACCESS TRAVEL DISTANCE - MAXIMUM	ALLOWABLE	200'	200'	
	ACTUAL	191'-6"	107'-0"	
COMMON PATH OF TRAVEL - MAXIMUM	ALLOWABLE	75'	75'	
	ACTUAL	74'-0"	20'-0"	
DEAD END CORRIDOR - MAXIMUM	ALLOWABLE	20'	20'	
	ACTUAL	-	-	
# OF ACCESSIBLE MEANS OF EGRESS	ALLOWABLE	2	2	
	ACTUAL	1	1	
MINIMUM CORRIDOR WIDTH	ALLOWABLE	44"	44"	
	ACTUAL	72"	72"	
MINIMUM EGRESS DOOR WIDTH	ALLOWABLE	32"	32"	
	ACTUAL	36"	36"	
MINIMUM STAIR WIDTH	ALLOWABLE	44"	44"	BUILDING STAIRS ETR
	ACTUAL	N/A	N/A	
MINIMUM STAIR HEADROOM	ALLOWABLE	80" MIN.		BUILDING STAIRS ETR
	ACTUAL	N/A		
TREAD DEPTH / MAXIMUM HEIGHT	ALLOWABLE	11" MIN. / 7" MAX., 4" MIN.		BUILDING STAIRS ETR
	ACTUAL	N/A		
MAXIMUM STAIR VERTICAL RISE	ALLOWABLE	12'-0" MAX.		BUILDING STAIRS ETR
	ACTUAL	N/A		

SUITE OCCUPANT LOAD: (PER NFPA 2024)

OCCUPIED SPACE	OCCUPANCY USE GROUP	AREA (sq ft)	AREA PER OCCUPANT (sq ft/ Occ.) TABLE 1004.5	OCCUPANT LOAD
PODIATRY EXAM	I-2	1250 sqft.	240 GROSS	16
PODIATRY OFFICE	B	930 sqft.	100 GROSS	10
ENT	I-2	2400 sqft.	240 GROSS	10

TRAVEL DISTANCE & LOCATIONS

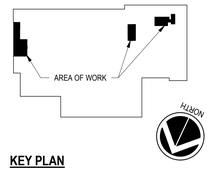
START	EXIT	COMMON PATH OF TRAVEL	TOTAL TRAVEL DISTANCE
1	HORIZONTAL EXIT 1	20'-0"	101'-6"
2	EXTERIOR EXIT 2	74'-0"	191'-6"
3	EXTERIOR EXIT 3	20'-0"	114'-6"

BUILDING DATA: (PER IBC 2021)

FUNCTION:	HOSPITAL	
CLASSIFICATION:	B (OFFICE) & I-2 (EXAM)	
SEPARATION:	SEPARATED MIXED USE - N/A INCIDENTAL USE AREAS	TABLE 508.4
CONSTRUCTION TYPE:	TYPE II	
FIRE PROTECTION:	AUTOMATIC FIRE PROTECTION SYSTEM PER NFPA 101	

0' 2' 4' 8' 16'

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



KEY PLAN

Revisions | Date

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Drawing Title: ENT/PODIATRY - LIFE SAFETY PLAN	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: 637-22-102
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number
		Issue Date: 03.12.2026 / Checked: EJL / Drawn: JDH	Drawing Number: AG-003

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GENERAL REMOVAL NOTES

A. ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.

B. FOR DURATION OF PROJECT, EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN FROM DAMAGE OR CONSTRUCTION ACTIVITIES. WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED, REPLACE/REPAIR EXISTING CONSTRUCTION TO RETURN IT TO ITS ORIGINAL CONDITION. WHERE REMOVAL OF EXISTING CONSTRUCTION, PIPING, DUCTWORK, AND OTHER ITEMS CREATES OPENINGS IN WALLS, FLOORS OR CEILINGS, PATCH OPENINGS IMMEDIATELY WITH SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING.

C. PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF SURROUNDING OCCUPIED AREAS. SEAL AIR-TIGHT. PARTITIONS MUST BE INSTALLED IN ACCORDANCE WITH FIRE PROTECTION AND EGRESS REQUIREMENTS. MAINTAIN MEANS OF EGRESS ACCESS TO EXITS DURING CONSTRUCTION.

D. TAKE PROPER MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL OPENINGS IN DUCTS, WALLS, FLOORS AND CEILINGS. PROVIDE CONTINUOUS EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.

E. COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL SALVAGE THAT IS OF VALUE AS DESIGNATED BY THE USER OR BUILDING ENGINEER. REMOVE FROM THE BUILDING AND DISPOSE OF IN A LAWFUL MANNER ALL DEBRIS AND/OR ITEMS NOT RETAINED BY OWNER.

F. INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.

G. COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL WORK, AS REQUIRED.

0' 4' 8' 16' 32'

SCALE: 1/16" = 1'-0"

KEY PLAN

1 AD-101

ENT/POD REMOVAL PLAN

SCALE: 1/16" = 1'-0"

Revisions	Date

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Drawing Title	ENT/PODIATRY OVERALL REMOVAL FLOOR PLAN
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	637-22-102
Building Number	
Approved:	
Location	ASHEVILLE VAMC
	FULLY SPRINKLERED
Issue Date	03.12.2026
Checked	EJL
Drawn	JDH
Drawing Number	AD-101

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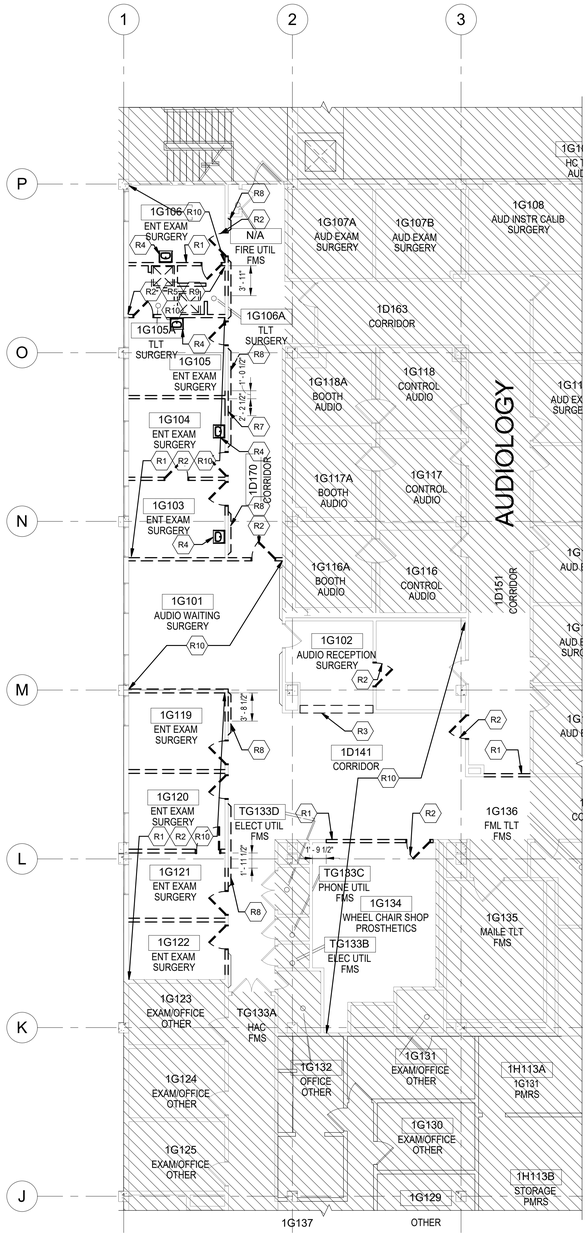
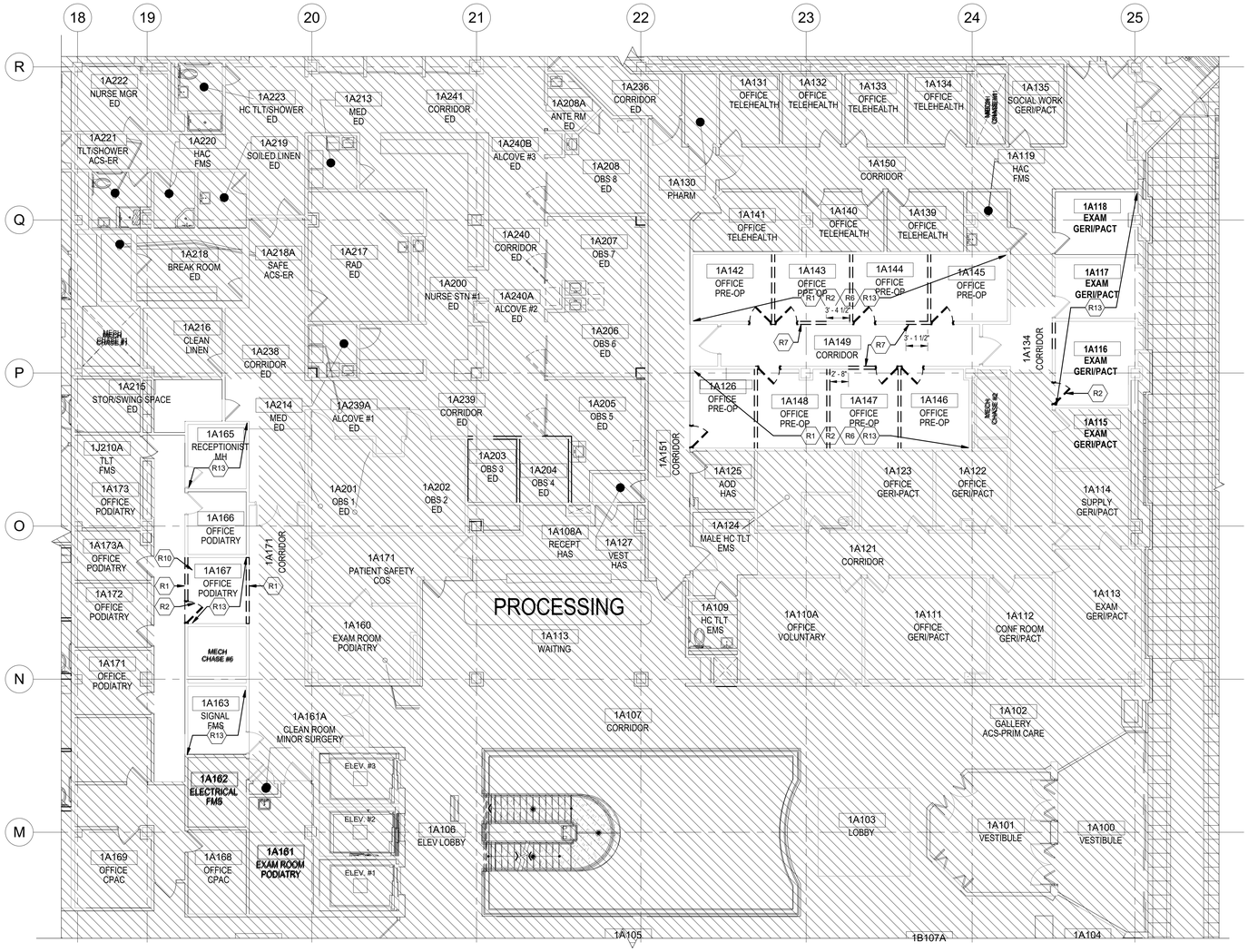


1 AD-102 ENT REMOVAL PLAN

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



2 AD-102 PODIATRY REMOVAL PLAN

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

GENERAL REMOVAL NOTES

A. ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.

B. FOR DURATION OF PROJECT, EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN FROM DAMAGE OR CONSTRUCTION ACTIVITIES. WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED, REPLACE/REPAIR EXISTING CONSTRUCTION TO RETURN IT TO ITS ORIGINAL CONDITION. WHERE REMOVAL OF EXISTING CONSTRUCTION, PIPING, DUCTWORK, AND OTHER ITEMS CREATES OPENINGS IN WALLS, FLOORS OR CEILINGS, PATCH OPENINGS IMMEDIATELY WITH SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING.

C. PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF SURROUNDING OCCUPIED AREAS. SEAL AIR-TIGHT. PARTITIONS MUST BE INSTALLED IN ACCORDANCE WITH FIRE PROTECTION AND EGRESS REQUIREMENTS. MAINTAIN MEANS OF EGRESS ACCESS TO EXITS DURING CONSTRUCTION.

D. TAKE PROPER MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL OPENINGS IN DUCTS, WALLS, FLOORS AND CEILINGS. PROVIDE CONTINUOUS EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.

E. COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL SALVAGE THAT IS OF VALUE AS DESIGNATED BY THE USER OR BUILDING ENGINEER. REMOVE FROM THE BUILDING AND DISPOSE OF IN A LAWFUL MANNER ALL DEBRIS AND/OR ITEMS NOT RETAINED BY OWNER.

F. INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.

G. COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL WORK, AS REQUIRED.

REMOVAL KEY NOTES

R#	REMOVAL KEY NOTES
R1	REMOVE EXISTING PARTITION. PATCH AND REPAIR AS NEEDED.
R2	REMOVE EXISTING DOOR, DOOR FRAME AND HARDWARE, DELIVER TO OWNER.
R3	REMOVE EXISTING RECEPTION COUNTER. PATCH AND REPAIR AS REQUIRED. PREP AREA TO RECEIVE NEW PARTITION.
R4	REMOVE EXISTING SINK, REFER TO PLUMBING DRAWING. PATCH AND REPAIR WALL AS NEEDED.
R5	REMOVE EXISTING SHOWER, AND SHOWER ACCESSORIES, ALSO REFER TO PLUMBING DRAWINGS. PATCH AND REPAIR AS NEEDED.
R6	REMOVE EXISTING ACOUSTICAL CEILING TILE AND FRAMING. PREP AREA TO RECEIVE NEW CEILING.
R7	PREP PARTITION FOR INSTALLATION OF DOOR AND DOOR FRAME
R8	REMOVE EXISTING CRASH RAIL. PATCH AND REPAIR WALL AS NEEDED.
R9	REMOVE EXISTING GYP BOARD CEILING.
R10	REMOVE EXISTING FLOORING. PREP AREA TO RECEIVE NEW FLOORING.
R11	REMOVE EXISTING OVERHEAD EXAM LIGHT. RETAIN FOR REINSTALLATION.
R12	REMOVE EXISTING EXAM ROOM EQUIPMENT. RETAIN FOR REINSTALLATION & RELOCATION.
R13	REMOVE EXISTING EXAM CHAIRS, CHAIRS, CARTS, OFFICE FURNITURE & STOOLS FOR SALVAGE/REUSE OR FOLLOWING DIRECTION FROM THE VA.

Revisions	Date

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STATE OF MARYLAND · JESSE J. LORENZ · 14540 · ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ENT & POD REMOVAL FLOOR PLAN
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	637-22-102
Building Number	
Approved:	
Location	ASHEVILLE VAMC
Drawing Number	AD-102
Issue Date	03.12.2026
Checked	EJL
Drawn	JDH

FULLY SPRINKLERED

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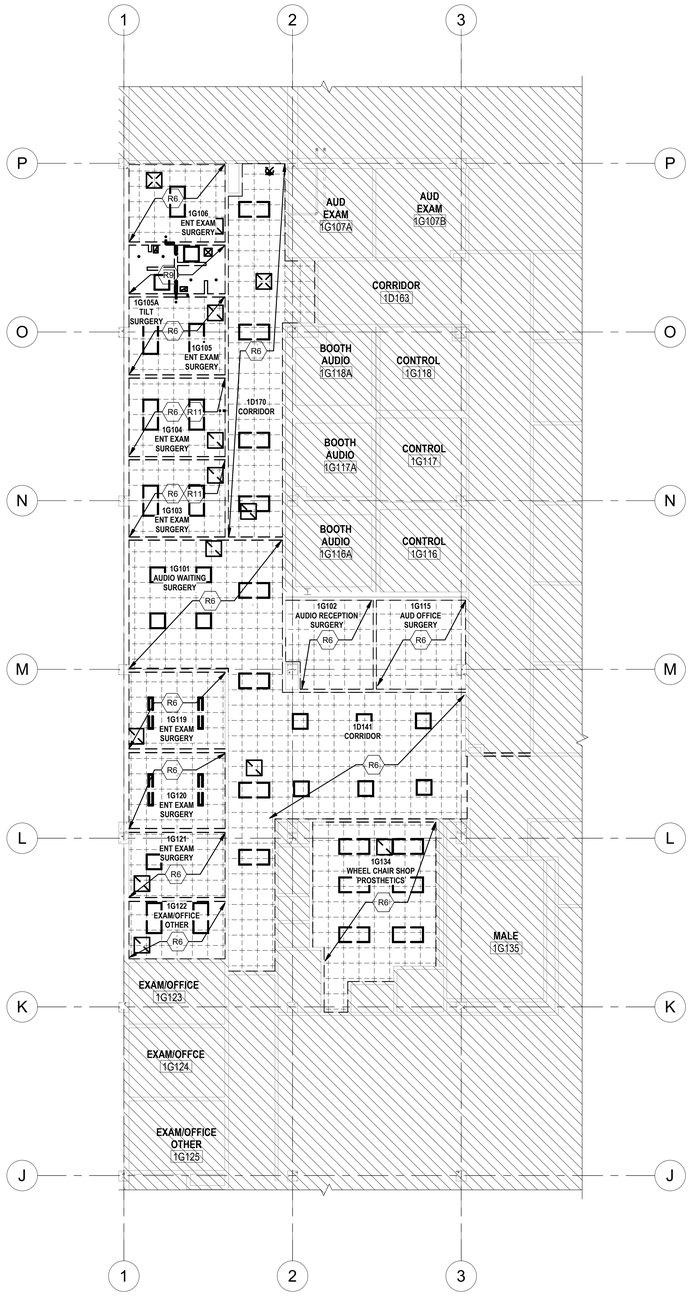
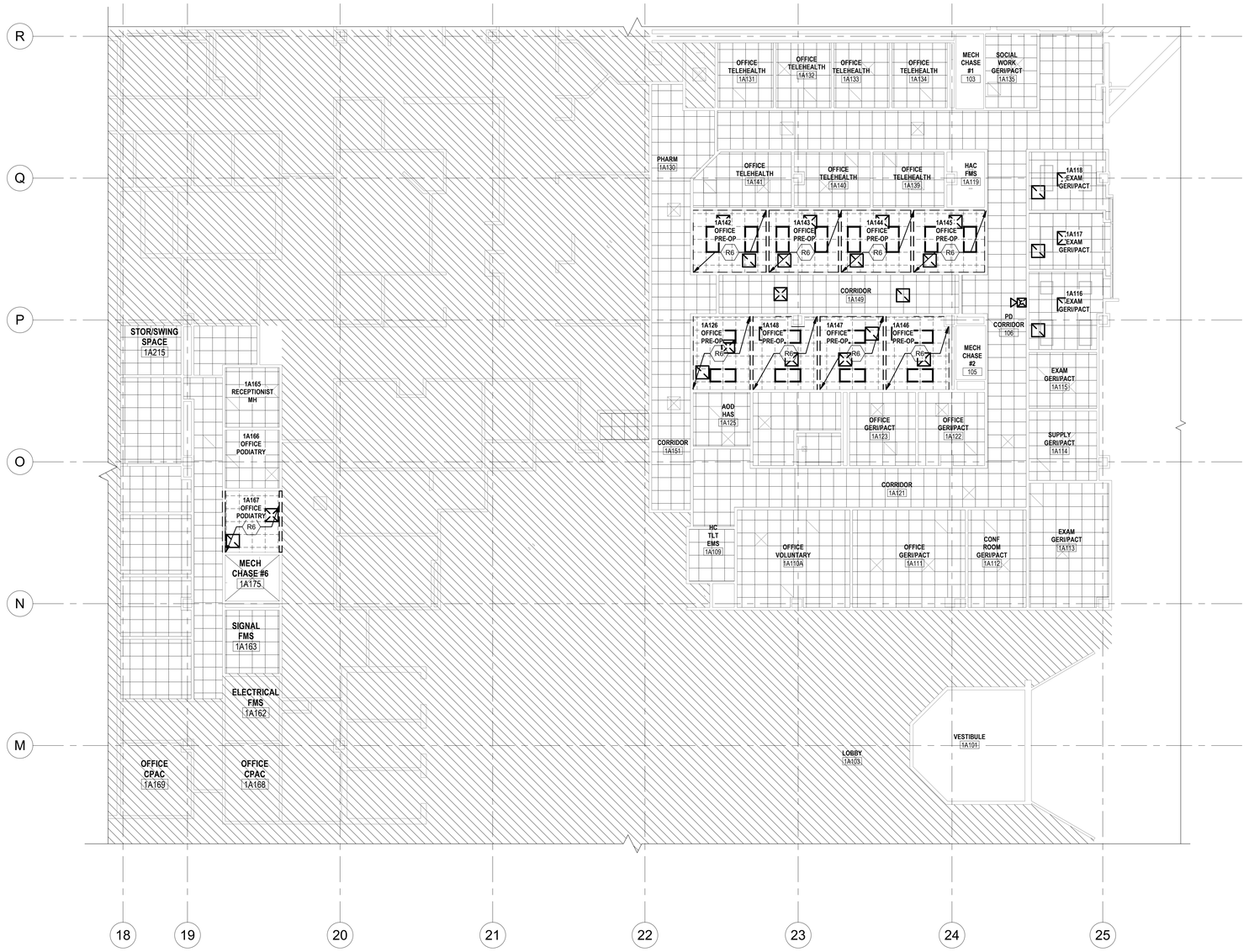


1 AD-103 ENT REMOVAL REFLECTED CEILING PLAN

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



2 AD-103 PODIATRY REMOVAL REFLECTED CEILING PLAN

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

GENERAL REMOVAL NOTES

A. ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.

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F. INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.

G. COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL WORK, AS REQUIRED.

(R#) REMOVAL KEY NOTES

R1	REMOVE EXISTING PARTITION. PATCH AND REPAIR AS NEEDED.
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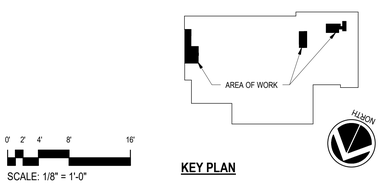

0' 2' 4' 8' 16'

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

KEY PLAN

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STATE OF MARYLAND — JOHN J. LOMBARDI — 14540 — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Revisions	Date

Drawing Title: ENT & POD REMOVAL REFLECTED CEILING PLAN

Phase: FINAL BID DOCUMENTS

Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS

Project Number: 637-22-102

Building Number:

Approved:

Location: ASHEVILLE VAMC

FULLY SPRINKLERED

Issue Date: 03.12.2026

Checked: Checker

Drawn: Author

Drawing Number: AD-103

Autodesk Docs://0123039 - VAMC Asheville - Patient Improvements/2022.357.001 VA Asheville Podiatry & ENT_Arch_V23_jdeanhunter@delta-eas.com.rvt
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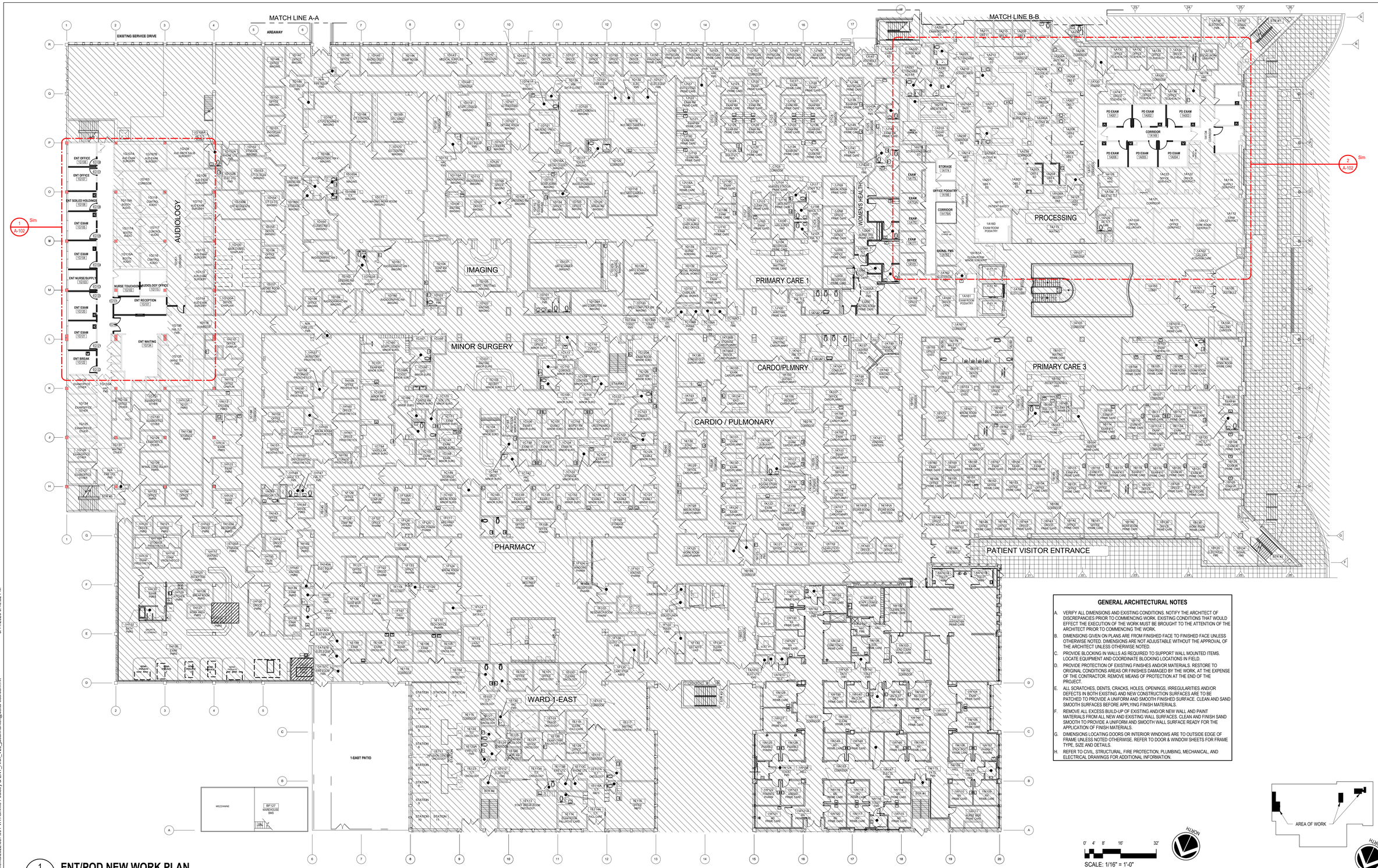

GENERAL ARCHITECTURAL NOTES

A. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK. EXISTING CONDITIONS THAT WOULD EFFECT THE EXECUTION OF THE WORK MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.

B. DIMENSIONS GIVEN ON PLANS ARE FROM FINISHED FACE TO FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.

C. PROVIDE BLOCKING IN WALLS AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS. LOCATE EQUIPMENT AND COORDINATE BLOCKING LOCATIONS IN FIELD.

D. PROVIDE PROTECTION OF EXISTING FINISHES AND/OR MATERIALS. RESTORE TO ORIGINAL CONDITIONS AREAS OR FINISHES DAMAGED BY THE WORK, AT THE EXPENSE OF THE CONTRACTOR. REMOVE MEANS OF PROTECTION AT THE END OF THE PROJECT.

E. ALL SCRATCHES, DENTS, CRACKS, HOLES, OPENINGS, IRREGULARITIES AND/OR DEFECTS IN BOTH EXISTING AND NEW CONSTRUCTION SURFACES ARE TO BE PATCHED TO PROVIDE A UNIFORM AND SMOOTH FINISHED SURFACE. CLEAN AND SAND SMOOTH SURFACES BEFORE APPLYING FINISH MATERIALS.

F. REMOVE ALL EXCESS BUILD-UP OF EXISTING AND/OR NEW WALL AND PAINT MATERIALS FROM ALL NEW AND EXISTING WALL SURFACES. CLEAN AND FINISH SAND SMOOTH TO PROVIDE A UNIFORM AND SMOOTH WALL SURFACE READY FOR THE APPLICATION OF FINISH MATERIALS.

G. DIMENSIONS LOCATING DOORS OR INTERIOR WINDOWS ARE TO OUTSIDE EDGE OF FRAME UNLESS NOTED OTHERWISE. REFER TO DOOR & WINDOW SHEETS FOR FRAME TYPE, SIZE AND DETAILS.

H. REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

0' 4' 8' 16' 32'

SCALE: 1/16" = 1'-0"

NORTH

AREA OF WORK

NORTH

KEY PLAN

1 / A-101 **ENT/POD NEW WORK PLAN**

SCALE: 1/16" = 1'-0"

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ENT/PODIATRY OVERALL NEW WORK PLAN
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Location	ASHEVILLE VAMC
Issue Date	03.12.2026
Checked	EJL
Drawn	JDH
Project Number	637-22-102
Building Number	
Drawing Number	A-101

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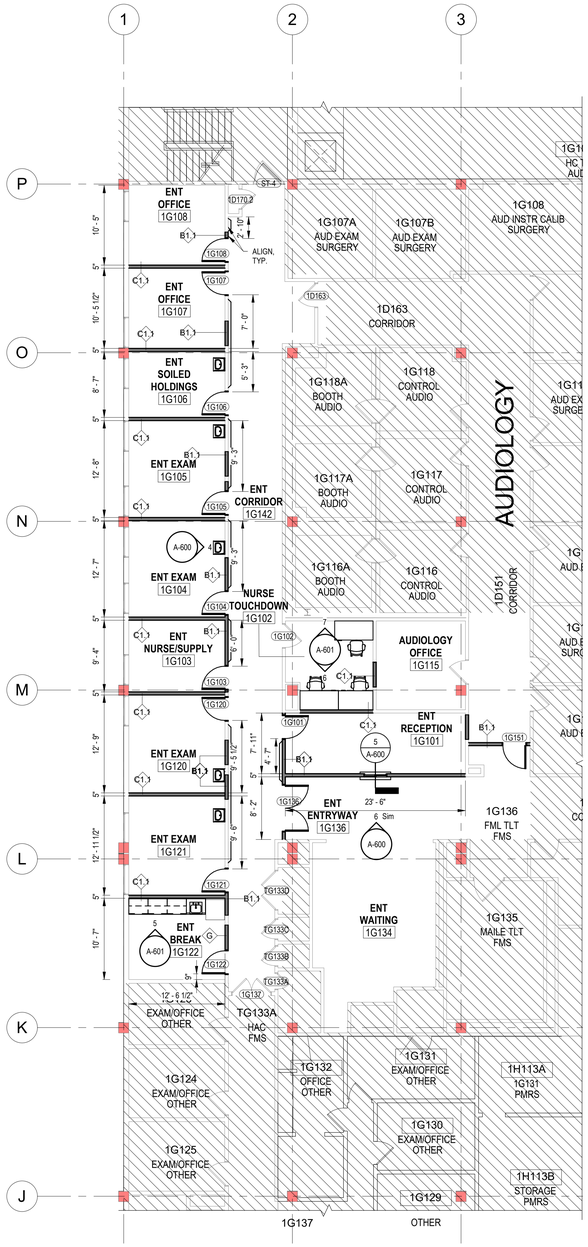
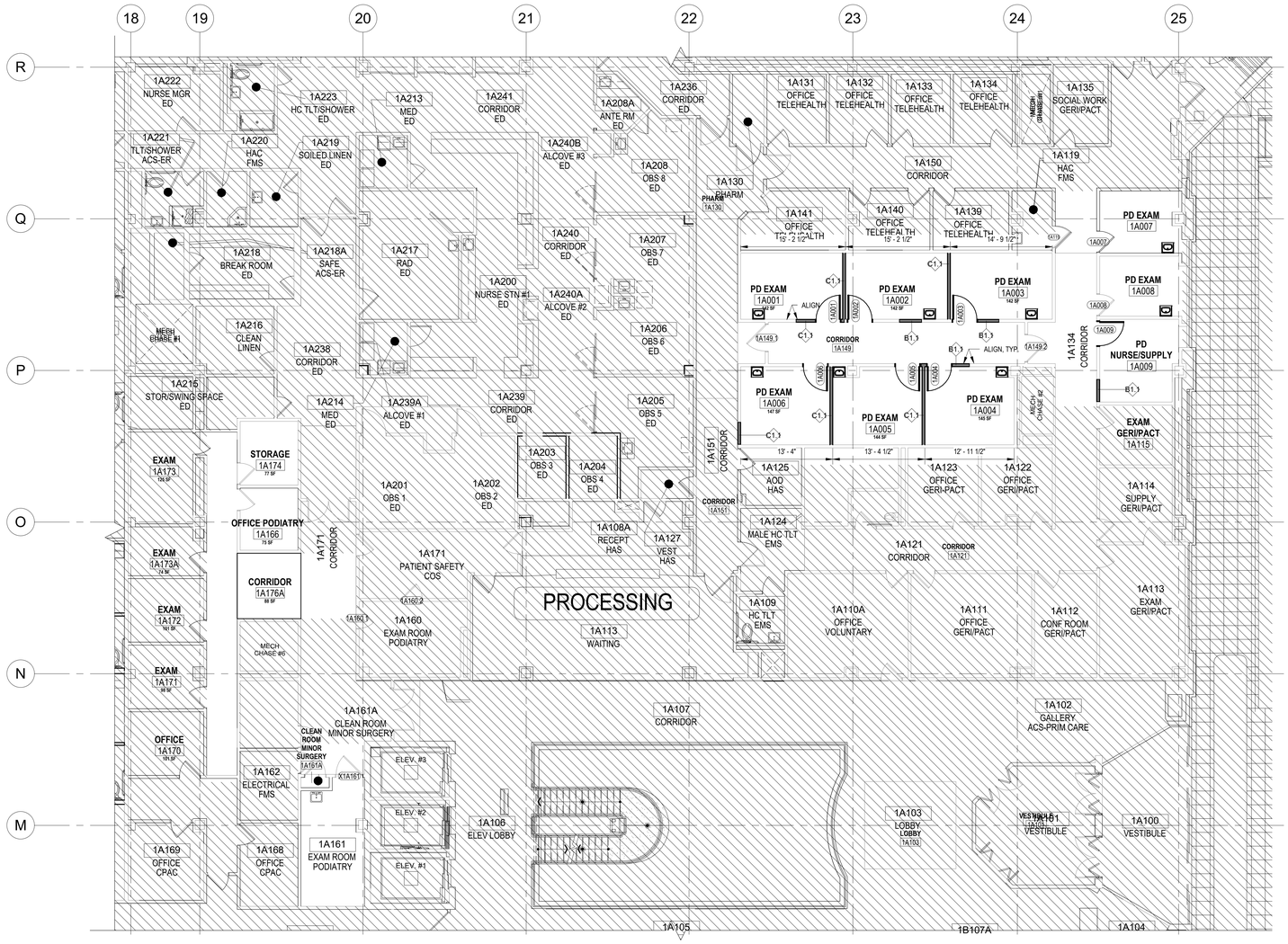


1 A-102 **ENT NEW WORK PLAN**

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



2 A-102 **PODIATRY NEW WORK PLAN**

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

GENERAL ARCHITECTURAL NOTES

A. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK. EXISTING CONDITIONS THAT WOULD EFFECT THE EXECUTION OF THE WORK MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.

B. DIMENSIONS GIVEN ON PLANS ARE FROM FINISHED FACE TO FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.

C. PROVIDE BLOCKING IN WALLS AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS. LOCATE EQUIPMENT AND COORDINATE BLOCKING LOCATIONS IN FIELD.

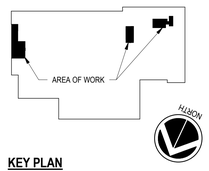
D. PROVIDE PROTECTION OF EXISTING FINISHES AND/OR MATERIALS. RESTORE TO ORIGINAL CONDITIONS AREAS OR FINISHES DAMAGED BY THE WORK, AT THE EXPENSE OF THE CONTRACTOR. REMOVE MEANS OF PROTECTION AT THE END OF THE PROJECT.

E. ALL SCRATCHES, DENTS, CRACKS, HOLES, OPENINGS, IRREGULARITIES AND/OR DEFECTS IN BOTH EXISTING AND NEW CONSTRUCTION SURFACES ARE TO BE PATCHED TO PROVIDE A UNIFORM AND SMOOTH FINISHED SURFACE. CLEAN AND SAND SMOOTH SURFACES BEFORE APPLYING FINISH MATERIALS.

F. REMOVE ALL EXCESS BUILD-UP OF EXISTING AND/OR NEW WALL AND PAINT MATERIALS FROM ALL NEW AND EXISTING WALL SURFACES. CLEAN AND FINISH SAND SMOOTH TO PROVIDE A UNIFORM AND SMOOTH WALL SURFACE READY FOR THE APPLICATION OF FINISH MATERIALS.

G. DIMENSIONS LOCATING DOORS OR INTERIOR WINDOWS ARE TO OUTSIDE EDGE OF FRAME UNLESS NOTED OTHERWISE. REFER TO DOOR & WINDOW SHEETS FOR FRAME TYPE, SIZE AND DETAILS.

H. REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



0' 2' 4' 8' 16'

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

KEY PLAN

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENT & POD NEW WORK PLAN	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: 637-22-102
Approved:		Location: ASHEVILLE VAMC	Building Number:
	FULLY SPRINKLERED	Issue Date: 03.12.2026 / Checked: EJL / Drawn: JDH	Drawing Number: A-102

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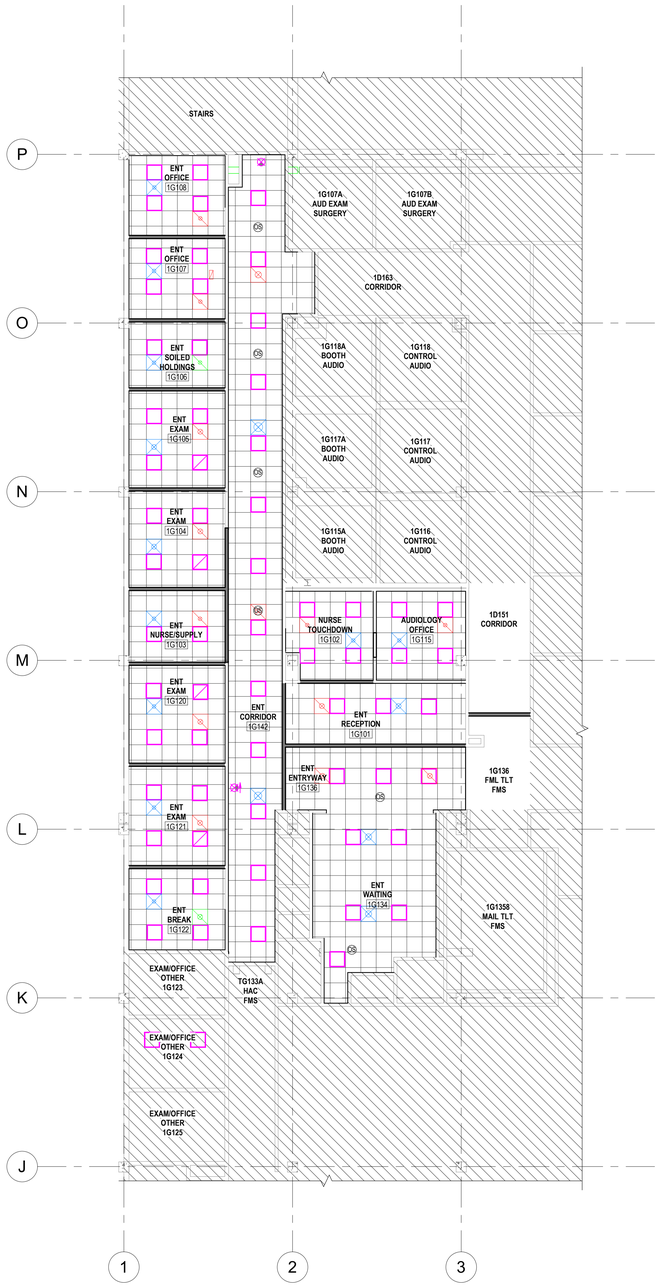
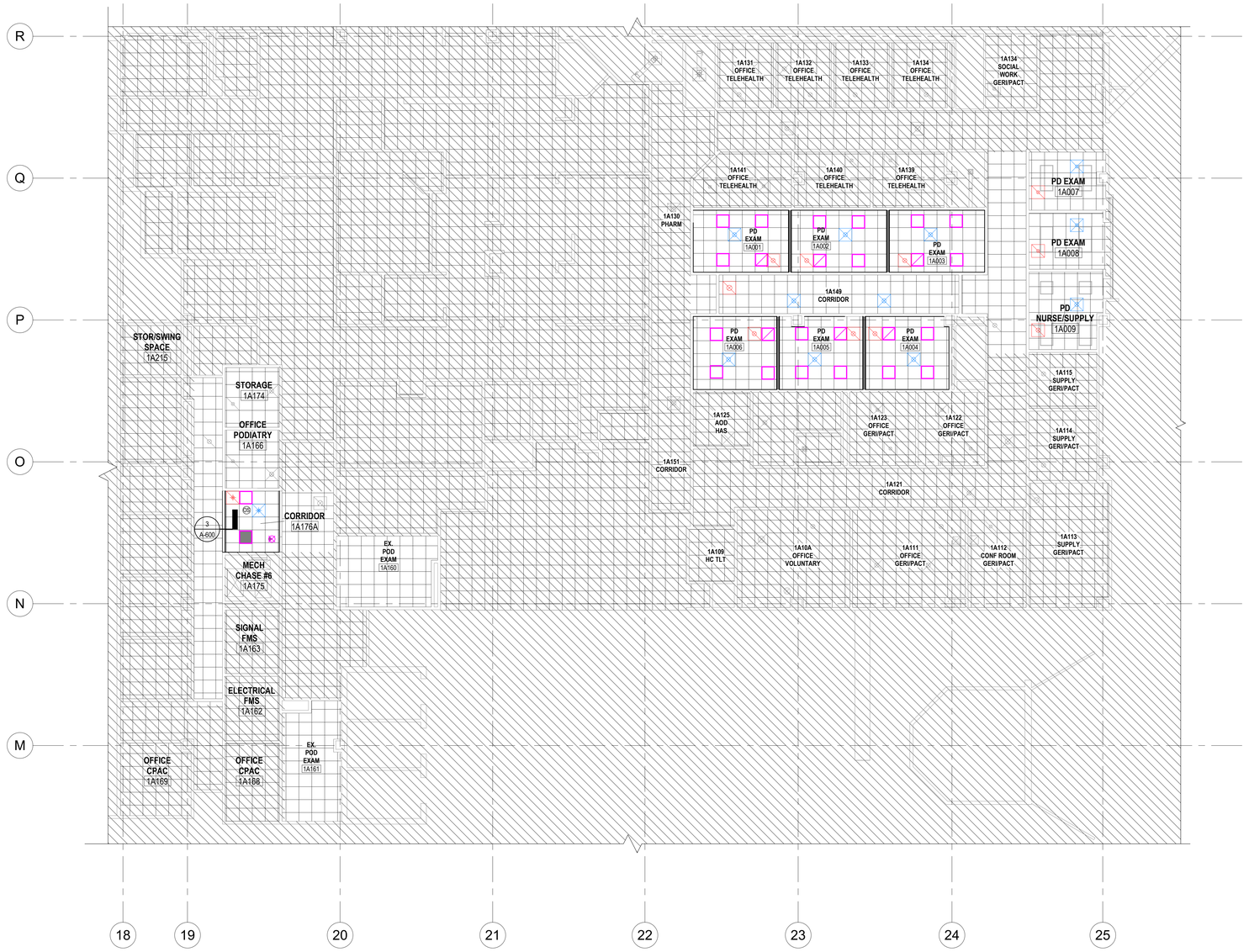


1 A-103 **ENT NEW WORK REFLECTED CEILING PLAN**

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



2 A-103 **PODIATRY NEW WORK REFLECTED CEILING PLAN**

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

GENERAL REFLECTED CEILING NOTES

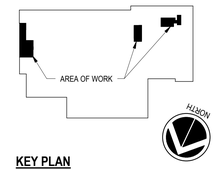
A. IN CASE DISCREPANCIES ARISE IN THE LOCATION OF CEILING MOUNTED COMPONENTS WITH OTHER TRADE DRAWINGS, THE REFLECTED CEILING PLAN GOVERNS. WHERE THIS CANNOT BE ACHIEVED, NOTIFY THE ARCHITECT PRIOR TO CONTINUATION OF WORK.
B. CENTER AS SHOWN IN ROOM OR DEFINED BOUNDARY ACOUSTICAL CEILING GRIDS UNLESS DIMENSIONED OR NOTED OTHERWISE. SPRINKLER HEADS AND DOWNLIGHTS TO BE CENTERED IN CEILING PANELS, OR SPACED OUT ACCORDING TO GOVERNING CODE, UNLESS DIMENSIONED OR NOTED OTHERWISE.
C. IF UNDIMENSIONED, DEVICES LOCATED WITHIN ACOUSTICAL CEILING TILES, GYPSUM BOARD CEILINGS, OR SOFFITS ARE TO BE CENTERED, UNLESS OTHERWISE NOTED. MULTIPLE DEVICES SHALL FOLLOW THE GRAPHIC DEPICTION ON THE DRAWINGS AS CLOSELY AS POSSIBLE, ALIGNING DEVICES WITH RESPECT TO ONE ANOTHER AND SPACED EVENLY AS SHOWN.
D. HEIGHTS SHOWN ARE TO BOTTOM OF GRID SYSTEM, GYPSUM BOARD, OR OTHER CEILING SYSTEM ABOVE FINISHED FLOOR (AFF) UNLESS OTHERWISE NOTED.
E. FINISH HORIZONTAL AND VISIBLE VERTICAL SURFACES OF GYPSUM BOARD SOFFITS AS SCHEDULED UNLESS OTHERWISE NOTED. REFER TO FINISH SCHEDULE AND LEGEND FOR ADDITIONAL INFORMATION.
F. PROVIDE PAINT FINISH TO GYPSUM BOARD CEILINGS AS SCHEDULED UNLESS NOTED OTHERWISE.
G. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING DIFFUSERS, GRILLES, AND OTHER RELATED CEILING BASED EQUIPMENT.
J. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING LIGHT FIXTURE TYPES, FIRE ALARM DEVICES, SMOKE DETECTION DEVICES AND OTHER SPECIAL SYSTEMS MOUNTED TO CEILINGS.
L. REFER TO FINISH PLANS, FINISH LEGEND, AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION.

REFLECTED CEILING PLAN LEGEND

- 2x2 ACOUSTICAL CEILING TILE
- 2X4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY LIGHT)
- 2X2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY LIGHT)
- 1X4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY LIGHT)
- ACCESS HATCH/PANEL
- SUPPLY DIFFUSER - SIZES VARIES
- RETURN DIFFUSER - SIZES VARIES
- EXIT LIGHT
- X' - X" CEILING HEIGHT A.F.F.

NOTE: REFER TO 'FP', 'M', AND 'E' DRAWINGS FOR EXACT FIXTURE / EQUIPMENT TYPE(S), SIZES AND ADDITIONAL INFORMATION.

NOTES: 1.CEILING HEIGHT IS 8'-0" UNLESS NOTED OTHERWISE
2. PROVIDE METAL PANEL AT CEILING EXAM LIGHT LOCATION TYP.



KEY PLAN

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

Revisions | Date

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VA U.S. Department of Veterans Affairs

Drawing Title: ENT & POD NEW WORK REFLECTED CEILING PLAN
Approved:
Phase: FINAL BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Location: ASHEVILLE VAMC
Issue Date: 03.12.2026
Checked: Checker
Drawn: Author
Project Number: 637-22-102
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Drawing Number: A-103

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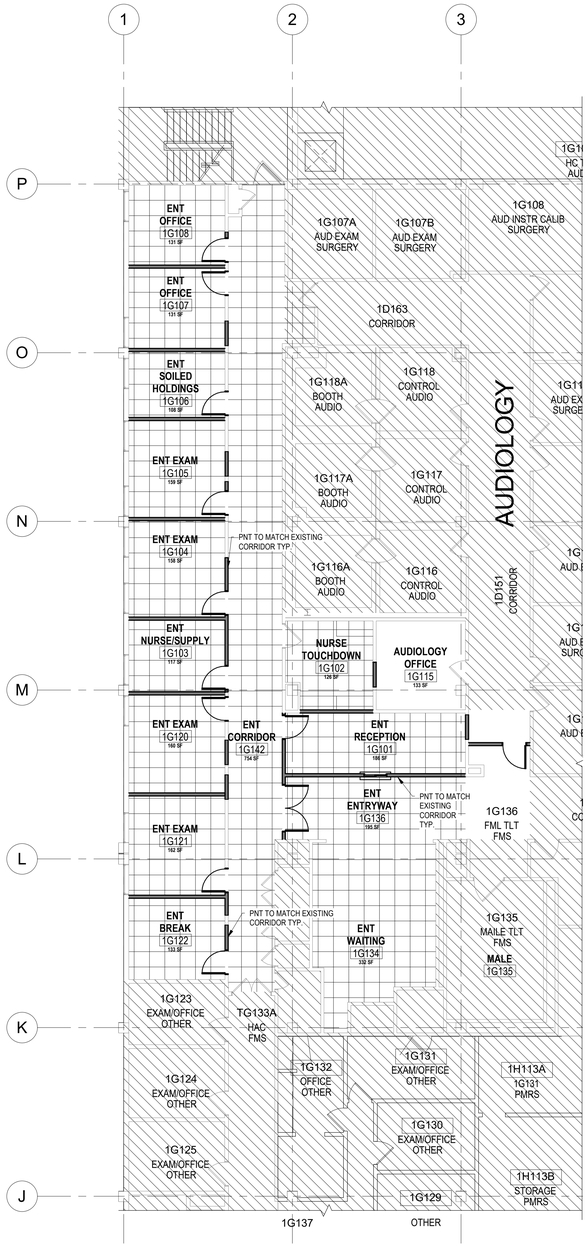
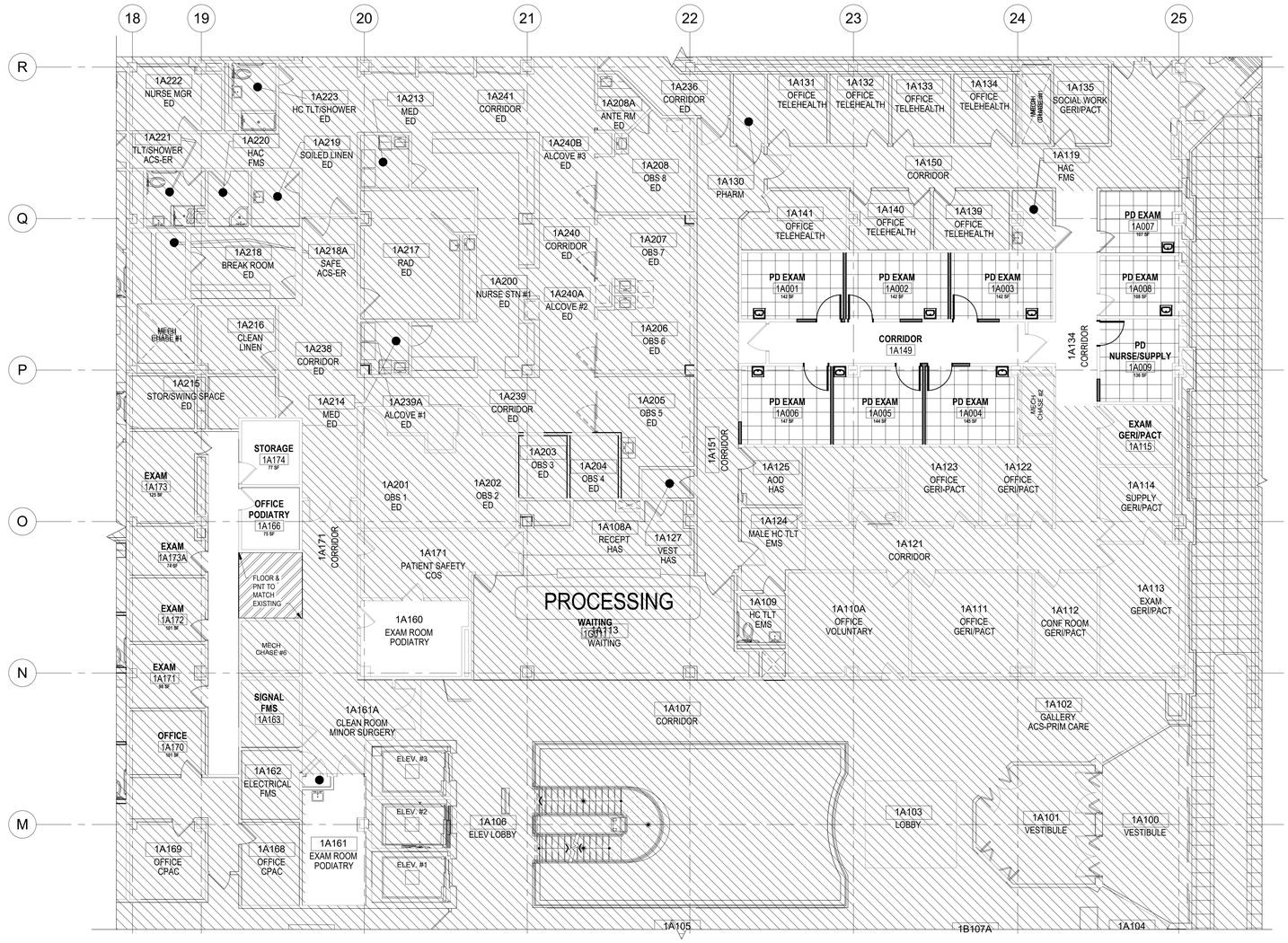


1 A-104 **ENT FINISH PLAN**

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



2 A-104 **PODIATRY FINISH PLAN**

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

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	DEPARTMENT	FLOOR FINISH	BASE	WALLS FINISH	CEILING FINISH	COMMENTS
1A001	PD EXAM	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A002	PD EXAM	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A003	PD EXAM	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A004	PD EXAM	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A005	PD EXAM	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A006	PD EXAM	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A007	PD EXAM	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A008	PD EXAM	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A009	PD NURSE/SUPPLY	POD	LVT-1	RB-1	PNT-1	ACP-1	
1A166	OFFICE PODIATRY	POD	ETR	ETR	ETR	ETR	
1A176A	CORRIDOR	POD	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.	MATCH EXIST.	
1G101	ENT RECEPTION	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G102	NURSE TOUCHDOWN	ENT	LVT-1	RB-1	PNT-2	ACP-1	

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	DEPARTMENT	FLOOR FINISH	BASE	WALLS FINISH	CEILING FINISH	COMMENTS
1G103	ENT NURSE/SUPPLY	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G104	ENT EXAM	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G105	ENT EXAM	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G106	ENT SOILED HOLDINGS	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G107	ENT OFFICE	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G108	ENT OFFICE	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G115	AUDIOLOGY OFFICE	AUD	ETR	*RB-1	*PNT	ETR	*PATCH TO MATCH EXISTING
1G120	ENT EXAM	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G121	ENT EXAM	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G122	ENT BREAK	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G134	ENT WAITING	ENT	LVT-1	RB-1	PNT-2	ACP-1	
1G136	ENT ENTRYWAY	ENT	ETR	RB-1	PNT-2	ACP-1	
1G142	ENT CORRIDOR	ENT	ETR	RB-1	PNT-2	ACP-1	

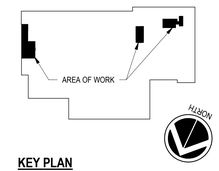
ROOM FINISH SCHEDULE LEGEND

MATERIAL / FINISH NAME	DESCRIPTION
ACP	ACOUSTICAL CEILING PANEL
CPT	CARPET
EX.	EXISTING
GWB	GYPSUM WALL BOARD
LVT	LUXURY VINYL TILE
PNT	PAINT

FLOOR FINISH LEGEND

LVT-1

MATCH EXIST.



KEY PLAN

0' 2' 4' 8' 16'

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

Revisions	Date

CONSULTANT

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENT & POD FINISH PLAN

Phase: FINAL BID DOCUMENTS

Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS

Project Number: 637-22-102

Building Number:

Approved:

Location: ASHEVILLE VAMC

FULLY SPRINKLERED

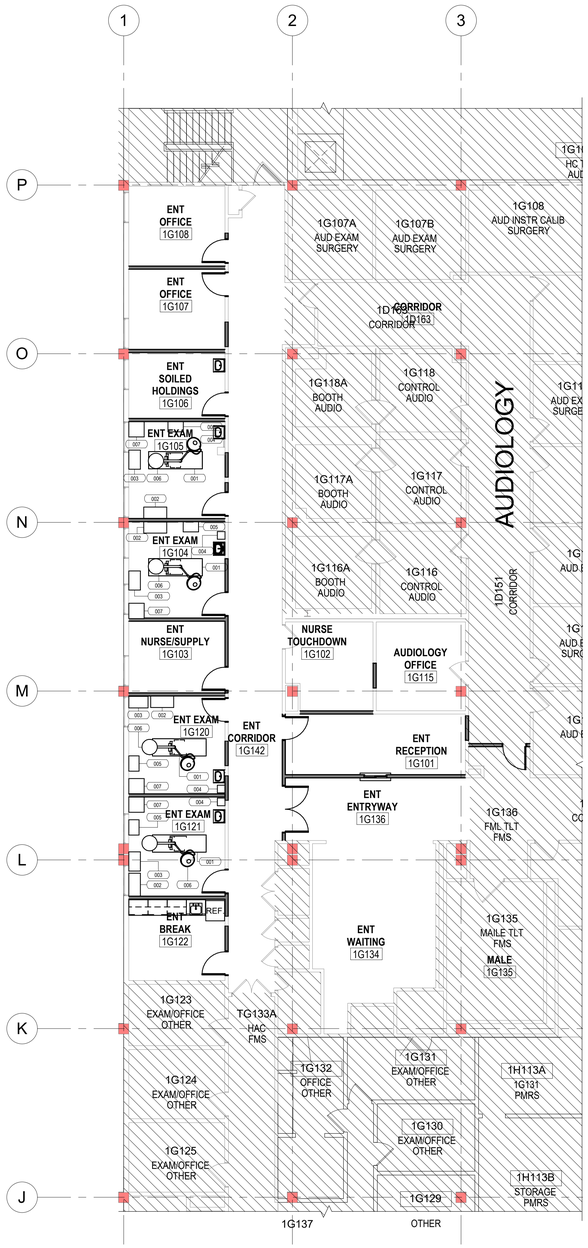
Issue Date: 03.12.2026

Checked: EJL

Drawn: JDH

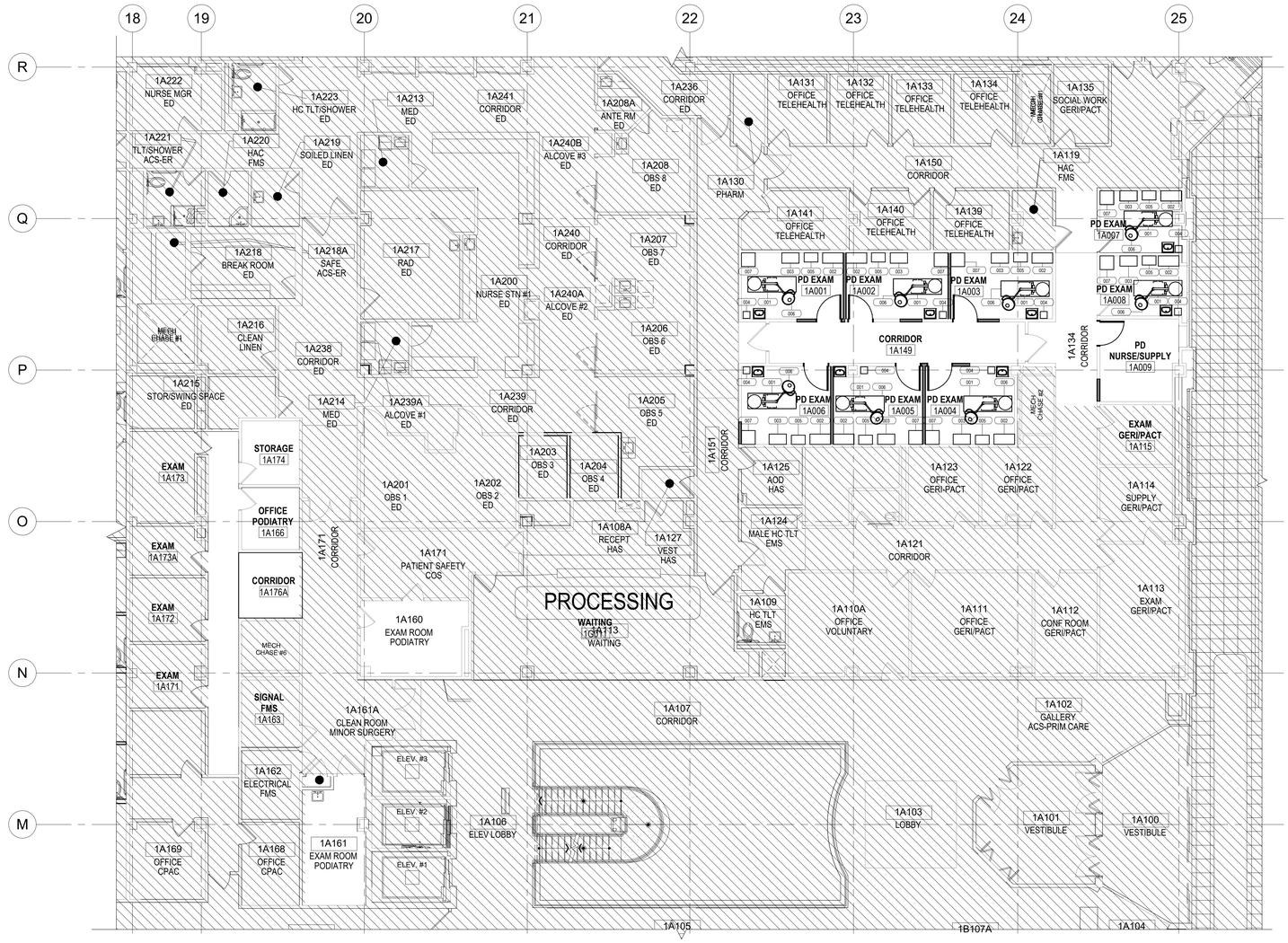
Drawing Number: A-104

Autodesk Docs://0123039 - VAMC Asheville - Patient Improvements/2022.357.001 VA Ashville Podiatry & ENT_Arch_V23_jdashhunter@delta-eas.com.rvt 3/11/2026 8:41:08 PM



1 A-105 **ENT EQUIPMENT PLAN**

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



2 A-105 **PODIATRY EQUIPMENT PLAN**

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

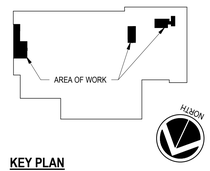
ENT EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	EQUIPMENT NAME	QUANTITY	NEW/EXISTING	FURNISHED	INSTALLED	COMMENTS
						<varies>
001	EXAM CHAIR	4	EXIST.	VA	VA	EXISTING RELOCATED
002	STORAGE CABINET	4	EXIST.	VA	VA	EXISTING RELOCATED
003	MOBILE STORAGE CABINET	4	EXIST.	VA	VA	EXISTING RELOCATED
004	WASTE BIN	4	EXIST.	VA	VA	EXISTING RELOCATED
005	MOBILE COMPUTER STATION	4	EXIST.	VA	VA	EXISTING RELOCATED
006	OVERHEAD EXAM LIGHT	2	EXIST.	VA	VA	EXISTING RELOCATED
007	MOBILE EXAM EQUIPMENT	4	EXIST.	VA	VA	EXISTING RELOCATED

PODIATRY EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	EQUIPMENT NAME	QUANTITY	NEW/EXIST.	FURNISHED	INSTALLED	COMMENTS
001	EXAM CHAIR	8	NEW/EXIST.	GC/VA	GC/VA	2 EXIST. RELOCATED 6 NEW
002	STORAGE CABINET	8	NEW/EXIST.	GC/VA	GC/VA	2 EXIST. RELOCATED 6 NEW
003	MOBILE STORAGE CABINET	8	NEW/EXIST.	GC/VA	GC/VA	2 EXIST. RELOCATED 6 NEW
004	WASTE BIN	8	NEW/EXIST.	GC/VA	GC/VA	2 EXIST. RELOCATED 6 NEW
005	MOBILE COMPUTER STATION	8	NEW/EXIST.	GC/VA	GC/VA	2 EXIST. RELOCATED 6 NEW
006	OVERHEAD EXAM LIGHT	8	NEW/EXIST.	GC/VA	GC/VA	2 EXIST. RELOCATED 6 NEW
007	MOBILE EXAM EQUIPMENT	8	NEW/EXIST.	GC/VA	GC/VA	2 EXIST. RELOCATED 6 NEW

NOTES: FINAL QUANTITIES TO BE DETERMINED FOLLOWING FEEDBACK FROM VA



KEY PLAN

0' 2' 4' 8' 16'

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

Revisions	Date

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STATE OF MARYLAND · GREGORY J. LORENZO · 14540 · ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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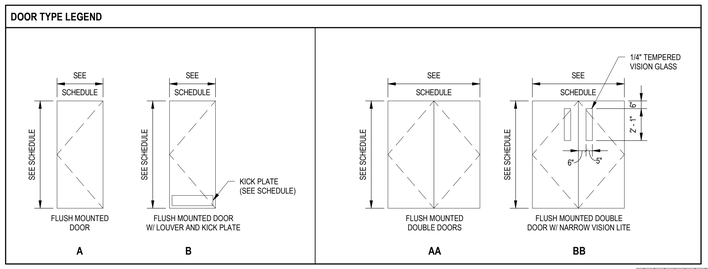
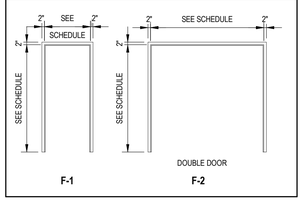
DOOR SCHEDULE

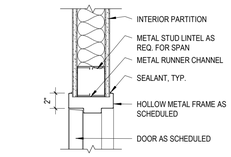
DOOR NUMBER	DOOR	FIRE RATING	DOOR					FRAME			GLASS	DETAILS		HARDWARE GROUP	COMMENTS
	DOOR TYPE		OPENING SIZE		THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH		HEAD	JAMB		
			HEIGHT	WIDTH											
1A001	A	20 MIN	7' - 0"	3' - 6"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1A002	A	20 MIN	7' - 0"	3' - 6"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1A003	A	20 MIN	7' - 0"	3' - 6"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1A004	A	20 MIN	7' - 0"	3' - 6"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1A005	A	20 MIN	7' - 0"	3' - 6"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1A006	A	20 MIN	7' - 0"	3' - 6"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1A007	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	*MATCH EXISTING
1A008	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1A009	A	20 MIN	7' - 0"	3' - 6"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1A119	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1A149.1	ETR	ETR	7' - 0"	3' - 10"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1A149.2	ETR	ETR	7' - 0"	3' - 10"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1A160.1	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1A160.2	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1D163	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1D170.2	ETR	ETR	7' - 0"	2' - 6"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1G101	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G101.2	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1G102	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1G103	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G104	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G105	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G106	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G107	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G108	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G115	ETR	ETR	7' - 0"	3' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1G120	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G121	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G122	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
1G136	BB	20 MIN	7' - 0"	6' - 0"	2"	SWC	STN-1	F-2	HM	PNT-1	-	1/A-601	2/A-602		
1G137	ETR	ETR	7' - 0"	5' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
1G151	A	20 MIN	7' - 0"	3' - 0"	2"	SWC	STN-1	F-1	HM	PNT-1	-	1/A-601	2/A-602		
ST-4	ETR	ETR	7' - 0"	3' - 10"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
TG133A	ETR	ETR	7' - 0"	2' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
TG133B	ETR	ETR	7' - 0"	2' - 6"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
TG133C	ETR	ETR	7' - 0"	2' - 6"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	
TG133D	ETR	ETR	7' - 0"	5' - 0"	2"	-	REFIN*	-	-	PNT-1	-	-	-	ETR	

DOOR TYPE LEGEND

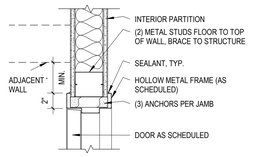


FRAME TYPE LEGEND

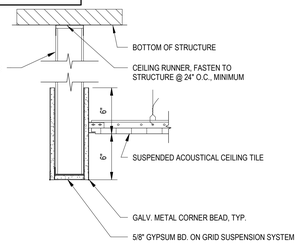




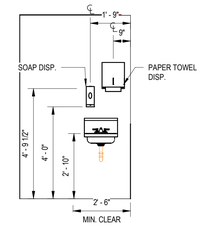
1 A-600 **DOOR HEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



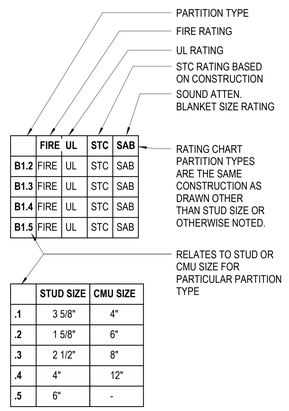
2 A-600 **DOOR JAMB DETAIL**
SCALE: 1 1/2" = 1'-0"



3 A-600 **BULKHEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



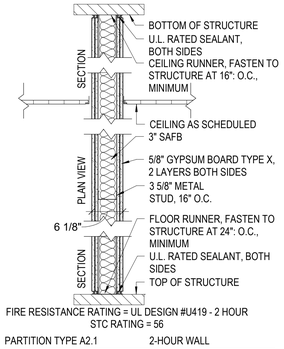
4 A-600 **SINK ELEVATION DETAIL TYP.**
SCALE: 3/8" = 1'-0"



	FIRE	UL	STC	SAB
B1.2	FIRE	UL	STC	SAB
B1.3	FIRE	UL	STC	SAB
B1.4	FIRE	UL	STC	SAB
B1.5	FIRE	UL	STC	SAB

	STUD SIZE	CMU SIZE
.1	3 5/8"	4"
.2	1 5/8"	6"
.3	2 1/2"	8"
.4	4"	12"
.5	6"	-

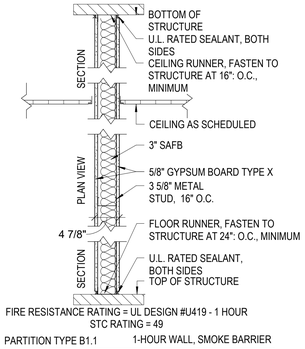
NOTES:
1. PROVIDE MOISTURE RESISTANT GYP. BD. ON WALLS & CEILINGS IN ALL TOILET & ON WET WALL IN KITCHEN AND EXAM ROOM.
2. PROVIDE BLOCKING BEHIND ANY WALL OR CEILING HUNG ITEMS, SUCH AS WALL MOUNTED TV's, GRAB BARS, LIGHTING FIXTURES, DOOR BUMPERS, ETC. COORDINATE BLOCKING LOCATIONS IN FIELD.
3.



FIRE RESISTANCE RATING = UL DESIGN #U419 - 2 HOUR
STC RATING = 56

PARTITION TYPE A2.1 2-HOUR WALL

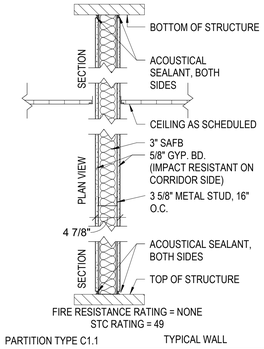
2 HOUR PARTITION



FIRE RESISTANCE RATING = UL DESIGN #U419 - 1 HOUR
STC RATING = 49

PARTITION TYPE B1.1 1-HOUR WALL, SMOKE BARRIER

1 HOUR PARTITION



FIRE RESISTANCE RATING = NONE
STC RATING = 49

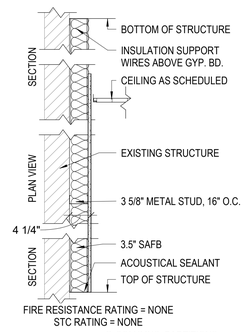
PARTITION TYPE C1.1 TYPICAL WALL

NON-RATED PARTITION

	FIRE	UL	STC	SAB	NOTES
A2.2	N/A	N/A	N/A	N/A	N/A
A2.3	2HR	U419	56	3"	USE 25 GA. STL. STUDS.
A2.4	N/A	N/A	N/A	N/A	N/A
A2.5	2HR	U454	62	5"	USE 20 GA. STL. STUDS.

	FIRE	UL	STC	SAB	NOTES
B1.2	N/A	N/A	N/A	N/A	N/A
B1.3	1HR	U419	47	1 1/2"	USE 1/2" GYP. BD.
B1.4	1HR	U419	49	3"	
B1.5	N/A	N/A	N/A	N/A	N/A

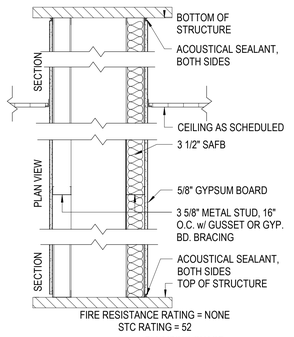
	FIRE	UL	STC	SAB	NOTES
C1.2	-	-	STC	SAB	
C1.2	-	-	STC	SAB	
C1.4	-	-	STC	SAB	
C1.5	-	-	STC	SAB	



FIRE RESISTANCE RATING = NONE
STC RATING = NONE

PARTITION TYPE D1.1 @ COLUMNS, PARTITIONS

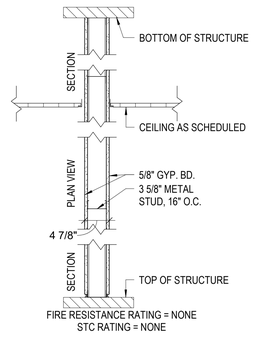
NON-RATED PARTITION



FIRE RESISTANCE RATING = NONE
STC RATING = 52

PARTITION TYPE C5.1 PLUMBING CHASE

NON-RATED PARTITION



FIRE RESISTANCE RATING = NONE
STC RATING = NONE

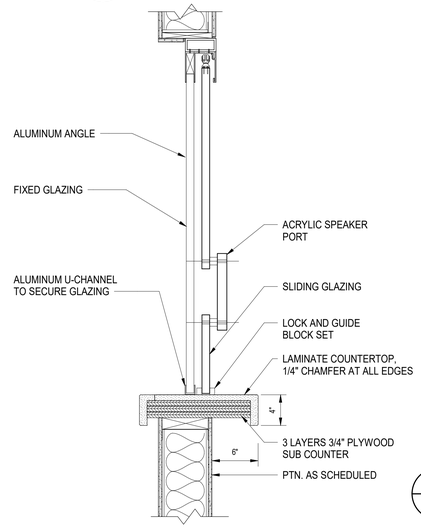
PARTITION TYPE C2.1

NON-RATED PARTITION

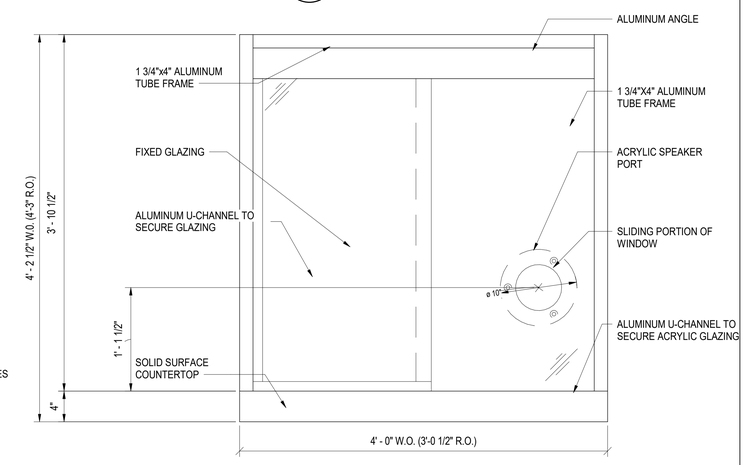
	FIRE	UL	STC	SAB	NOTES
D1.2	-	U---	-	SAB	USE 1 5/8" METAL STUD
D1.3	-	U---	-	SAB	USE 2 1/2" METAL STUD
D1.4	-	U---	-	SAB	USE 4" METAL STUD
D1.5	-	U---	-	SAB	USE 7/8 HAT CHANNEL

	FIRE	UL	STC	SAB	NOTES
C5.2	-	-	STC	SAB	
C5.3	-	-	STC	SAB	
C5.4	-	-	52	3 1/2"	
C5.5	-	-	STC	SAB	

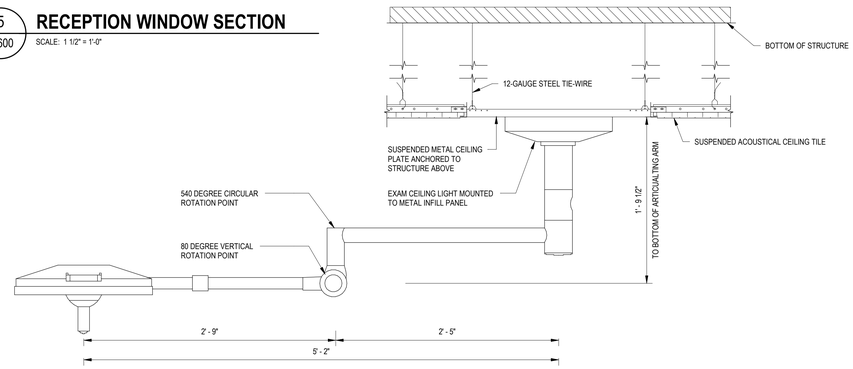
	FIRE	UL	STC	SAB	NOTES
C2.2	N/A	N/A	N/A	N/A	
C2.3	N/A	N/A	N/A	N/A	
C2.4	N/A	N/A	N/A	N/A	
C2.5	N/A	N/A	N/A	N/A	



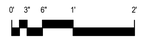
5 A-600 **RECEPTION WINDOW SECTION**
SCALE: 1 1/2" = 1'-0"



6 A-600 **TRANSACTION WINDOW ELEVATION**
SCALE: 1 1/2" = 1'-0"



7 A-600 **CEILING EXAM LIGHT MOUNT DETAIL**
SCALE: 1 1/2" = 1'-0"



SCALE: 1" = 1'-0"

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

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SCHEDULES, DETAILS & DIAGRAM	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: 637-22-102
			Building Number:
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Drawing Number: A-600
		Issue Date: 03.12.2026 / Checked: EJL / Drawn: JDH	

VA FORM 08 - 6231

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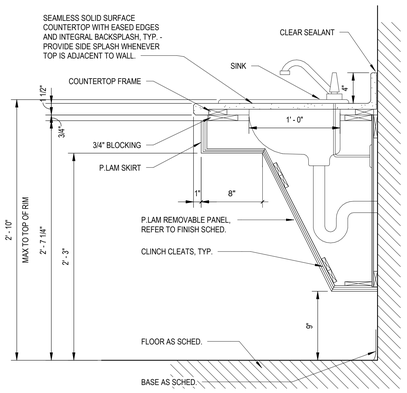
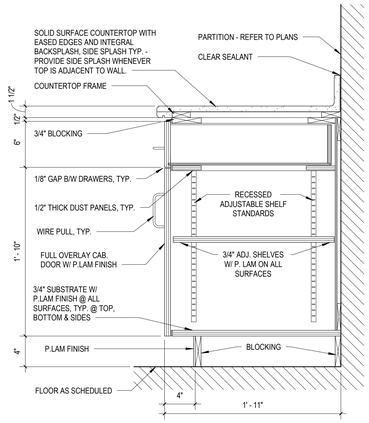


1 A-601 **ACCESSIBLE SINK W/ SSM COUNTERTOP**

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



2 A-601 **BASE CABINET W/ SSM COUNTERTOP**

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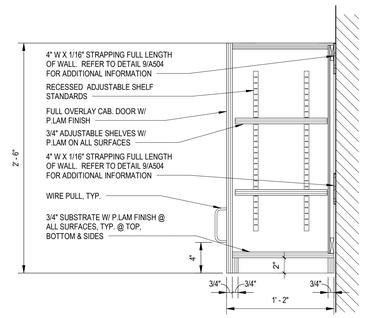
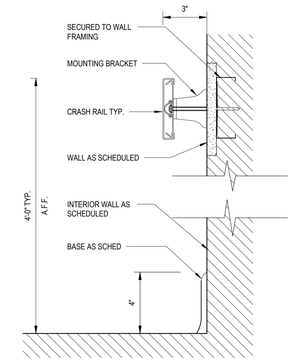


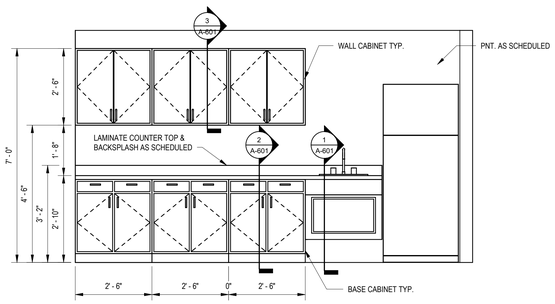
3 A-601 **WALL CABINETS DETAIL**

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



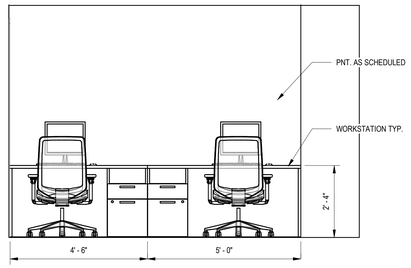
4 A-601 **CRASH RAIL WALL DETAIL, TYP.**

SCALE: 3" = 1'-0"



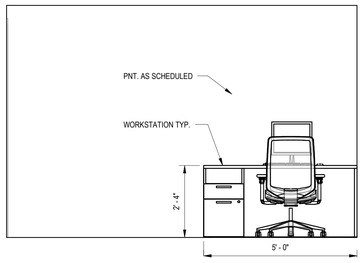
5 A-601 **BREAK ROOM - ELEVATION DETAIL**

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



6 A-601 **NURSE TOUCHDOWN - ELEVATION 1**

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



7 A-601 **NURSE TOUCHDOWN - ELEVATION 2**

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

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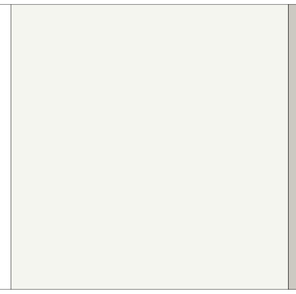
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

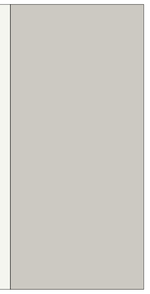
Drawing Title	DETAILS
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	637-22-102
Building Number	
Approved:	
Location	ASHEVILLE VAMC
	FULLY SPRINKLERED
Issue Date	03.12.2026
Checked	Checker
Drawn	Author
Drawing Number	A-601

VA FORM 08 - 6231

PAINT (DOORS & FRAMES)
SHERWIN WILLIAMS
SW7656
TYPES:
P-2
SC-2



PAINT (WALLS)
SHERWIN WILLIAMS
SW9541 WHITE SNOW
TYPES:
PNT-1

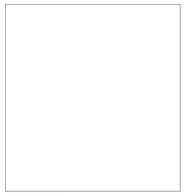


PAINT (WALLS)
SHERWIN WILLIAMS
SW7015 REPOSE GRAY
TYPES:
PNT-2

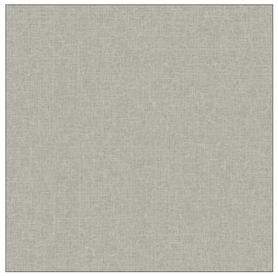
ACT CEILING
ARMSTRONG
ULTIMA HEALTH ZONE - WHITE
ACP-1

WALL GUARD
CONSTRUCTION SPECIALTIES
DRIFTWOOD
TYPES:
WG-1

WALL PANELS & CORNER GUARDS
CONSTRUCTION SPECIALTIES
STAINLESS STEEL



VINYL BASE
JOHNSONITE
SHARK FIN
TYPES:
RB-1



LUXURY VINYL FLOORING
MANNINGTON
FLASH - ALG101
TYPES:
LVT-1

CRASH RAIL
CONSTRUCTION SPECIALTIES
ECR-32A STAINLESS STEEL
TYPES:
BR-1

CORNER GUARD
CS SPECIALTIES
STAINLESS STEEL - CO-8
TYPES:
CG-1

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Revisions	Date

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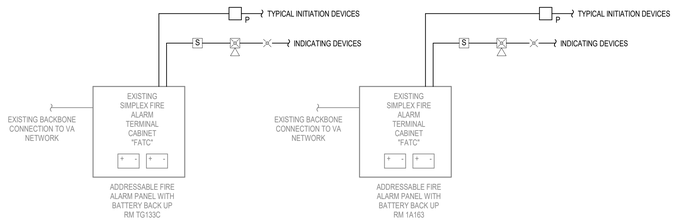
STATE OF MARYLAND
ERIC J. LORENZ
14540
ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
FINISH SELECTIONS	FINAL BID DOCUMENTS	RENOVATE SPACE FOR PATIENT IMPROVEMENTS	632-12-106
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number: B200
		Issue Date: 03.12.2026 / Checked: EJL / Drawn: LDM	Drawing Number: I001

VA FORM 08 - 6231



1 TYPICAL FIRE ALARM RISER DIAGRAM
N.T.S

ELECTRONIC SAFETY AND SECURITY SYMBOLS

SYMBOL	DESCRIPTION
FACP	ALARM, FIRE, PANEL; LETTERS INDICATE AS FOLLOWS: FACP = CONTROL PANEL FATC = FIRE ALARM TERMINAL CABINET
S	SPEAKER, CEILING MOUNTED FIRE ALARM VOICE EVACUATION.
	ALARM, SPEAKER/LIGHT, ONE ASSEMBLY, ADJUSTABLE 15CD, 30CD, 75CD UNLESS OTHERWISE NOTED.
	ALARM, LAMP LIGHT, SIGNAL LIGHT, STROBE, ADJUSTABLE 15CD, 30CD, 75CD UNLESS OTHERWISE NOTED.
P	FIRE ALARM STATION, MANUAL PULL

FIRE ALARM ABBREVIATIONS

ABBR.	DESCRIPTION
1PH	SINGLE-PHASE
1P	SINGLE POLE
2/C	TWO-CONDUCTOR
3/C	THREE-CONDUCTOR
3PH	THREE-PHASE
4/C	FOUR-CONDUCTOR
4W	FOUR-WIRE
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
AMB OR A	AMBIENT
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION PANEL
BYP	BY PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISTR	DISTRIBUTION
DN	DOWN
DRSW	DOOR SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
ESMT	EASEMENT
EXIST	EXISTING
FLEX	FLEXIBLE METALLIC CONDUIT
FOUTT	TELEPHONE FLOOR OUTLET
FP	FIRE PROTECTION
FT	FEET OR FOOT
FU SW	FUSED SWITCH
G OR GND	GROUND OR GENERATOR
GEN	GENERATOR
GTB	GROUND TERMINAL BOX
HOA	HAND-OFF-AUTOMATIC
HT	HEIGHT
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
J-BOX	JUNCTION BOX
LF	LINEAR FEET (FOOT)
LTNG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEUT OR N	NEUTRAL
NIC	NOT IN CONTRACT
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
REQD	REQUIRED
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SURF	SURFACE
SW	SWITCH
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
WP	WEATHERPROOF

FIRE ALARM SYSTEM NOTES

FA1. ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE EXISTING SIMPLEX FIRE ALARM SYSTEM.

FA2. ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE UL LISTED, MINIMUM 300V TYPE FPLP PLENUM RATED SOLID COPPER OR STANDARD COPPER WITH MAXIMUM 19 STRANDS.

FA3. LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CONDUCTORS SHALL BE COPPER, MINIMUM NO. 14 AWG, TWISTED SHIELDED PAIR.

FA4. SURVIVABILITY: PER AUTHORITY HAVING JURISDICTION, WIRING INSTALLED IN METAL RACEWAY WITHIN BUILDINGS THAT ARE PROTECTED THROUGHOUT BY SPRINKLERS SHALL BE CONSIDERED TO MEET THE REQUIREMENTS FOR PATHWAY SURVIVABILITY LEVEL 2 IN ACCORDANCE WITH NFPA 72 (2026) AS A 2-HOUR PERFORMANCE ALTERNATIVE.

FA5. PROVIDE FIRE ALARM RELAY AND DUCT DETECTOR CONNECTED TO FIRE ALARM SYSTEM, WITHIN 5' OF ALL DUCT PENETRATIONS THROUGH FIRE/SMOKE WALLS, WHETHER INDICATED ON ELECTRICAL OR MECHANICAL PLANS OR NOT.

FA6. ALL FIRE ALARM POWER CIRCUITS SHALL HAVE A DEDICATED 120V 20A BREAKER THAT SHALL BE RED IN COLOR AND MECHANICALLY PROTECTED (LOCKABLE IN THE "ON" POSITION), MARKED AS "FIRE ALARM CIRCUIT".

FA7. MINIMUM CANDELA RATING OF STROBES IS 15CD UNLESS NOTED OTHERWISE; "##" ADJACENT TO DEVICE INDICATES THE CANDELA RATING. PROVIDE SYNCHRONIZATION OF STROBES IN ALL ADJACENT AREAS WHERE STROBES ARE VISIBLE TO EACH OTHER.

FA8. FIRE ALARM DESIGN IS IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 72 - 2025) AND NATIONAL FIRE CODES (NFC). WHERE A FIRE ALARM RISER IS INDICATED, IT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO REPRESENT A COMPLETE WIRING AND DEVICE DISPLAY. ALL WIRING AND DEVICES SHALL BE IN ACCORDANCE WITH SELECTED VENDOR'S POINT-BY-POINT WIRING DIAGRAM. REFER TO FLOOR PLAN FOR DESIGN INTENT AND PROPOSED QUANTITY OF FIRE ALARM SYSTEM COMPONENTS.

FA9. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE FIRE ALARM SYSTEM BE PROVIDED WITH ALL THE NECESSARY EQUIPMENT, WIRING, CONDUIT, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. THE MINIMUM FIRE ALARM DESIGN CRITERIA IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO IN ACCORDANCE WITH 61G15-30.008. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE FIRE ALARM SYSTEM, IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER. THE FIRE ALARM CONTRACTOR SHALL CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.

FA10. FIRE ALARM CONTRACTOR SHALL BE AWARE OF THE TYPE OF FINISHES, DECOR AND OCCUPANCY. COORDINATION WITH THE STAKEHOLDER(S) SHALL BE PERFORMED BY THE FIRE ALARM CONTRACTOR FOR PLACEMENT OF FIRE ALARM DEVICES.

FA11. FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA 70 AND 72 FOR PROPER INSTALLATION PRACTICES.

FA12. FIRE ALARM PATHWAYS IN ALL AREAS SHALL BE IN 3/4" EMT, AND SHALL BE PAINTED RED FROM FACTORY. ALL FIRE ALARM WIRING SHALL BE ROUTED THROUGH CONDUIT THAT IS STRICTLY DEDICATED FOR FIRE ALARM. NO OTHER SYSTEMS MAY UTILIZE FIRE ALARM WIRING CONDUIT OR EMT.

FA13. ALL FIRE ALARM JUNCTION BOX AND PULL BOX COVERS SHALL BE PAINTED RED FROM FACTORY.

FA14. INCREASE BATTERY CAPACITY OF FIRE ALARM SYSTEMS TO ACCOMMODATE ADDITIONAL LOAD.

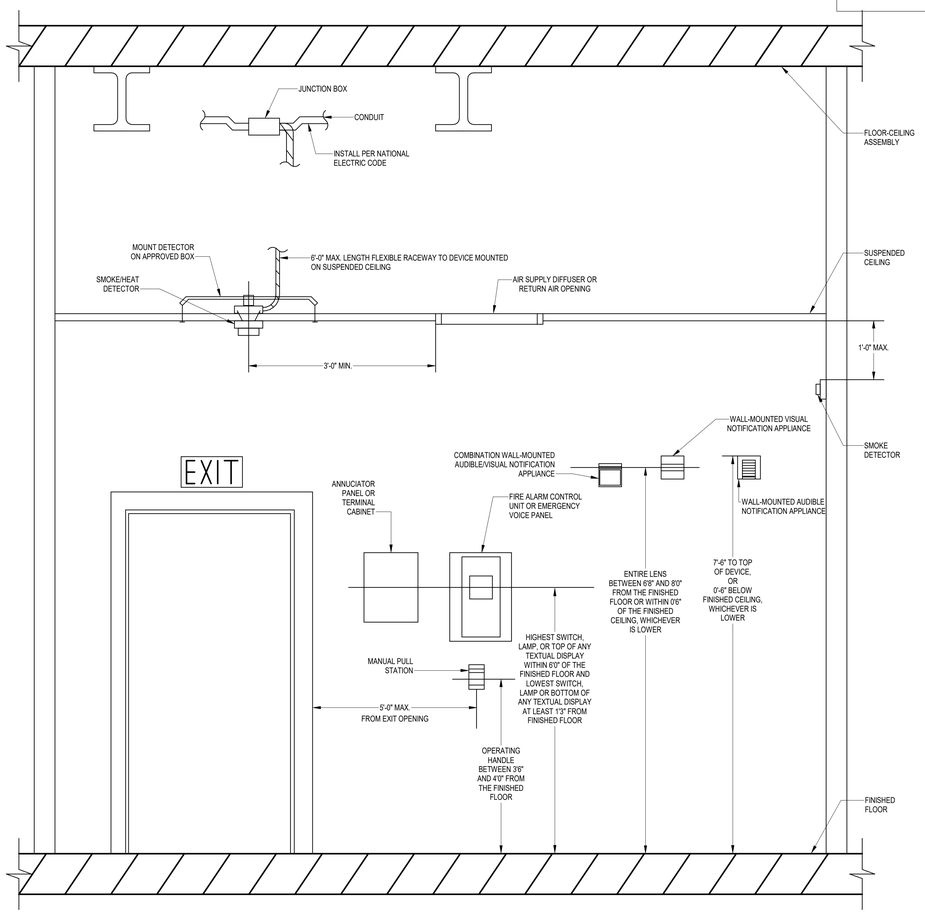
FA15. PERFORM RE-ACCEPTANCE TESTING IN ACCORDANCE WITH NFPA 72.

FA16. FIRE ALARM CIRCUITS SHALL NOT HAVE SPLICES. CIRCUITS SHALL BE EXTENDED FROM DEVICE AND APPLIANCE SCREW TERMINALS.

FA17. ALL OUTAGES (PLANNED OR UNPLANNED) TO COMPLY WITH FACILITY INTERIM LIFE SAFETY MEASURE (ILSM) POLICY.

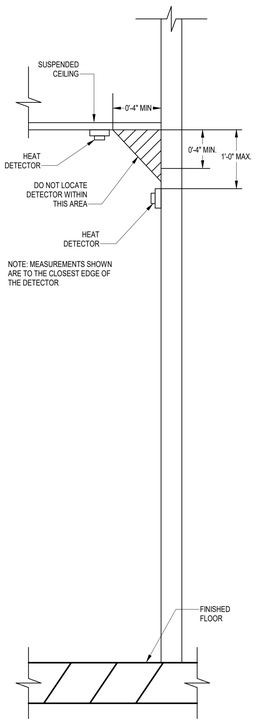
SHEET LIST

SHEET NUMBER	SHEET NAME
FA001	FIRE ALARM LEGENDS & SYMBOLS
FD101	FLOOR PLAN - FIRE ALARM - DEMO
FA101	FLOOR PLAN - FIRE ALARM - NEW WORK



NOTE: MOUNT FIRE ALARM DEVICES ON APPROVED BOXES.

2 FIRE ALARM DEVICE MOUNTING DETAIL
N.T.S.



HEAT DETECTOR MOUNTING PLACEMENT REQUIREMENTS

		OUTPUTS									
		NOTIFICATION								INTERFACE	
		ACTIVATE STROBES THROUGHOUT BUILDING	DISPLAY ALARM CONDITION AT FIRE ALARM CONTROL PANEL	DISPLAY SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	DISPLAY SUPERVISORY CONDITION AT FIRE ALARM ANNUNCIATOR PANEL	DISPLAY TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	DISPLAY TROUBLE CONDITION AT FIRE ALARM ANNUNCIATOR PANEL	TRANSMIT CONTACT ID TO SUPERVISING STATION	ACTIVATE SOUNDER BASE	DE-ACTIVATE SOUNDER BASE	
	INPUTS	A	B	C	D	E	F	G	H	I	
1	MANUAL PULL STATION	X	X					X	X		1
2	WATERFLOW SWITCH	X	X					X	X		2
3	SMOKE DETECTOR - SPOT TYPE	X	X					X	X		3
4	SHUNT TRIP POWER MONITOR			X	X			X			4
5	REMOTE POWER SUPPLY TROUBLE					X	X	X			5
6	AC POWER FAILURE					X	X	X			6
7	LOW BATTERY					X	X	X			7
8	ANY OPEN CIRCUIT					X	X	X			8
9	ANY GROUND FAULT					X	X	X			9
10	ANY NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X	X			10
11	ANY TROUBLE					X	X	X			11
12	FIRE ALARM CONTROL PANEL INTERFACE								X		12

NOTE: THIS MATRIX IS ONLY INTENDED TO SHOW THE MAJOR SYSTEM FUNCTIONS. SYSTEM SHALL ALSO PERFORM INPUTS/OUTPUTS REQUIRED BY NFPA 72 AND THE MANUFACTURER.

3 FIRE ALARM MATRIX
N.T.S

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE ALARM LEGENDS & SYMBOLS	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Approved:			Building Number
	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Drawing Number: FA001
		Issue Date: 03/12/2026 · Checked: TDB · Drawn: WWS	

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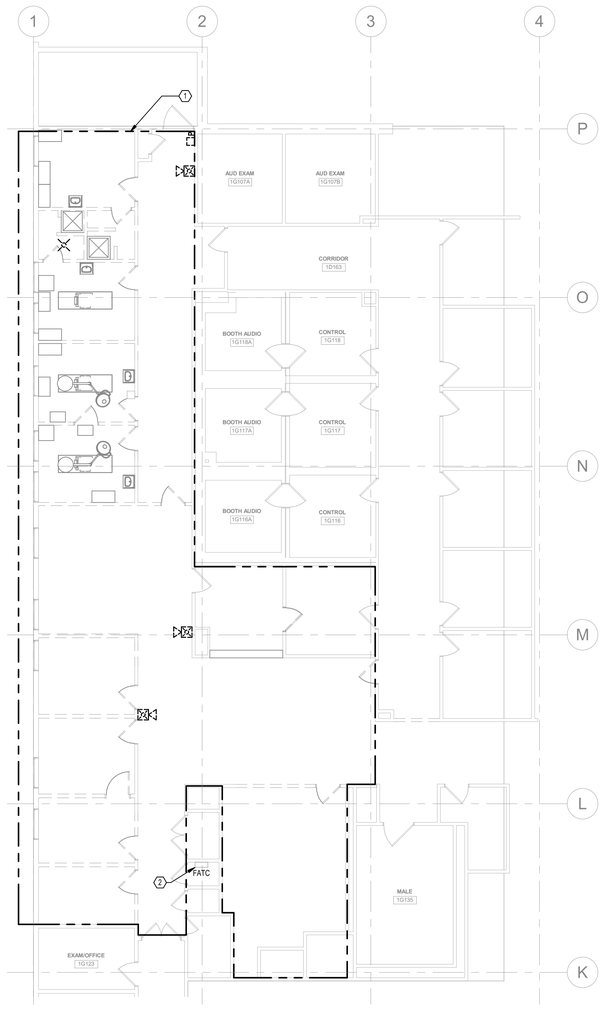
DRAWING NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR EXTENTS OF DEMOLITION.
2. ANY AREA THAT IS TO REMAIN OCCUPIED OR OTHERWISE NOTED BY THE COR SHALL BE PROVIDED WITH TEMPORARY SUPPORT TO PREVENT INTERRUPTION TO THE FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE ALL WIRE, RACEWAY, DEVICES, AND PROGRAMMING.
3. UPON FIRE ALARM SYSTEM IMPAIRMENT, NFPA 72-2026 AND VAFPDM SECTION 1.4 SHALL BE FOLLOWED DURING FIRE ALARM SYSTEM DOWNTIME. APPROVED PERSONNEL SHALL COORDINATE REQUIREMENTS PER NFPA 72, SUCH AS AN APPROVED FIRE WATCH IF REQUIRED.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING TO REMAIN CONDITIONS FROM DAMAGE DURING CONSTRUCTION. ANY MATERIALS, SYSTEMS, COMPONENTS, FINISHES, ETC. THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE TO THE APPROVAL OF THE VA.
5. THIS SITE IS AN ACTIVE WORKING ENVIRONMENT; SYSTEMS SHALL NOT BE SHUT DOWN WITHOUT WRITTEN AUTHORIZATION. ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
6. PENETRATIONS IN FIRE RATED ASSEMBLIES RESULTING FROM THE REMOVAL OF EQUIPMENT, PATHWAYS, CABLING, OR OTHER EQUIPMENT SHALL BE FIRE STOPPED PER THE LATEST EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
7. INTERIOR FIRE WALL PENETRATIONS - CONTRACTOR SHALL PROVIDE APPROVED UL LISTED FIRE RATED ASSEMBLY OR SYSTEM TO MAINTAIN FIRE RATING OF EXISTING FIRE BARRIER.
8. THE OWNER CLAIMS FIRST RIGHT OF REFUSAL FOR EXISTING EQUIPMENT. COORDINATE SALVAGE REQUIREMENTS WITH THE OWNER PRIOR TO DEMOLITION. IDENTIFY, TAG, AND CAREFULLY DECOMMISSION EQUIPMENT TO BE SALVAGED FOR THE OWNER. EQUIPMENT NOT WANTED BY THE OWNER SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
9. EXISTING FIRE ALARM PANEL SERVING ENT AREA IS LOCATED IN PHONE UTILITY ROOM TG133C. REFER TO PLAN FOR LOCATION OF ROOM TG133C.
10. EXISTING FIRE ALARM PANEL SERVING PODIATRY AREA IS LOCATED IN SIGNAL ROOM 1A163. LOCATED APPROXIMATELY 120' PLAN SOUTHWEST OF AREA OF DEMOLITION.

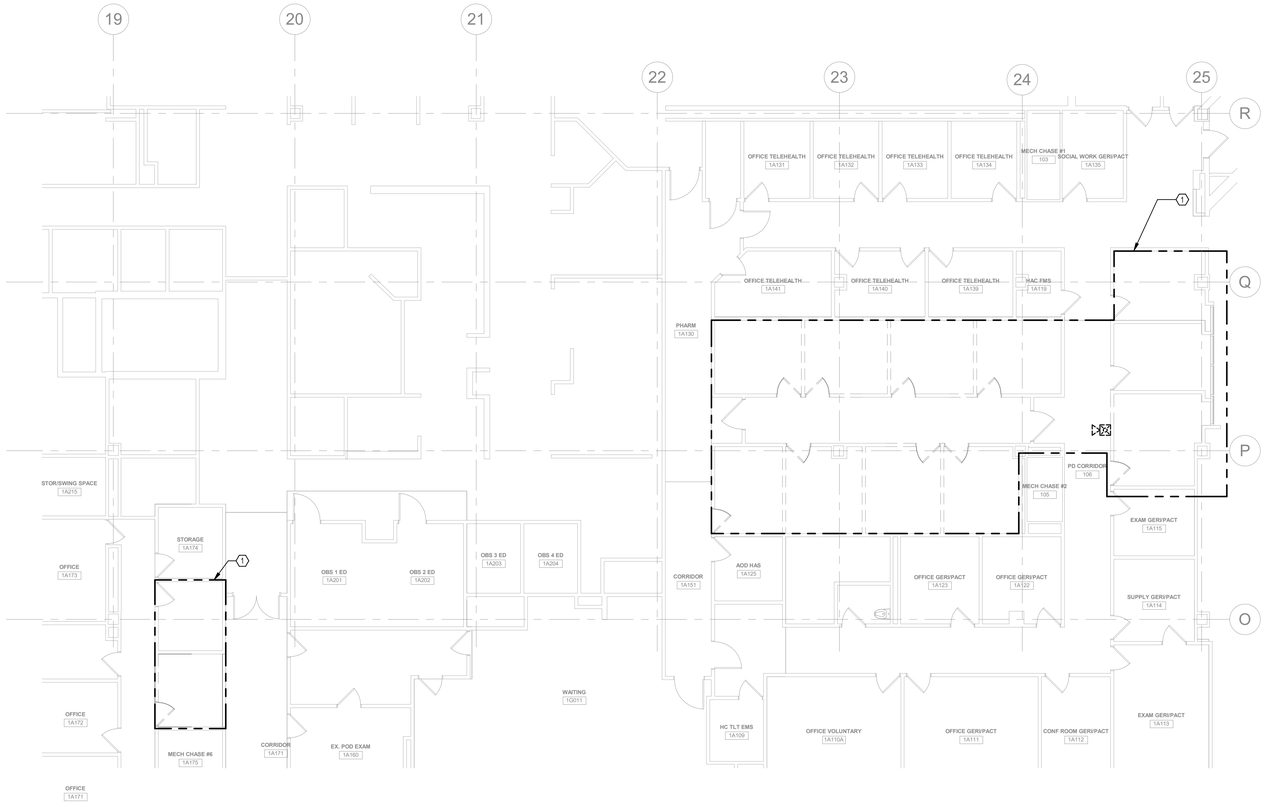
CODED NOTES:

(1) DISCONNECT AND REMOVE FIRE ALARM DEVICES LOCATED WITHIN AREA OF DEMOLITION. REMOVE CABLES BACK TO NEXT DEVICE ON CIRCUIT LOCATED OUTSIDE AREA OF DEMOLITION. IF NO OTHER DEVICES REMAIN ON CIRCUIT REMOVE CABLING AND CONDUIT BACK TO SOURCE. CONTRACTOR MUST VERIFY ALL FIRE ALARM DEVICES THAT ARE EXISTING TO REMAIN ON CIRCUITS MODIFIED UNDER THIS CONTRACT ARE FULLY FUNCTIONAL AT THE END OF EACH WORK DAY.

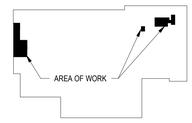
(2) EXISTING FATC TO REMAIN AS INSTALLED.



1 FIRST FLOOR PLAN - FIRE ALARM - DEMOLITION - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - FIRE ALARM - DEMOLITION - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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Drawing Title: FLOOR PLAN - FIRE ALARM - DEMO	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number
		Issue Date: 03/12/2026; Checked: TDB; Drawn: WWS	Drawing Number: FD101

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DRAWING NOTES:

1. ALL INITIATION, SIGNALING, AND NOTIFICATION CIRCUITS SHALL BE CLASS B IN METAL BOXES AND RACEWAY. COMMUNICATION LINE BETWEEN FACP AND FATP SHALL BE CLASS X.
2. DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE; FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
3. ANY AREA THAT IS TO REMAIN OCCUPIED OR OTHERWISE NOTED BY THE COR SHALL BE PROVIDED WITH TEMPORARY SUPPORT TO PREVENT INTERRUPTION TO THE FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE ALL WIRE, RACEWAY, DEVICES, AND PROGRAMMING.
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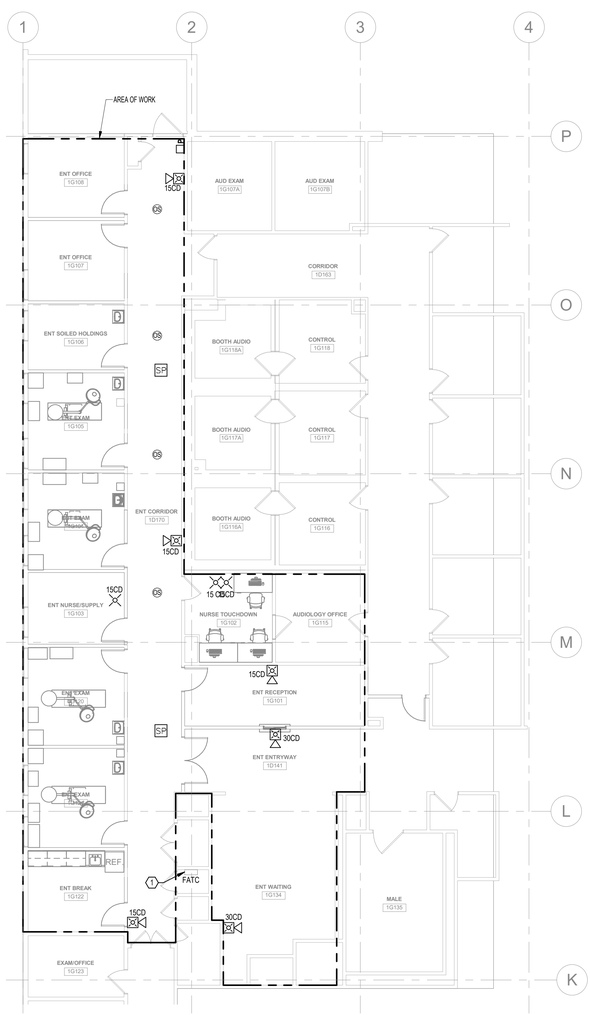
7. INTERIOR FIRE WALL PENETRATIONS - CONTRACTOR SHALL PROVIDE APPROVED UL LISTED FIRE RATED ASSEMBLY OR SYSTEM TO MAINTAIN FIRE RATING OF EXISTING FIRE BARRIER.
8. EXISTING FIRE ALARM PANEL SERVING ENT AREA IS LOCATED IN PHONE UTILITY ROOM TG133C. REFER TO PLAN FOR LOCATION OF ROOM TG133C.
9. EXISTING FIRE ALARM PANEL SERVING PODIATRY AREA IS LOCATED IN SIGNAL ROOM 1A163. LOCATED APPROXIMATELY 120' PLAN SOUTHWEST OF AREA OF DEMOLITION.

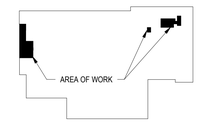
CODED NOTES:

1. EXISTING FATC. CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM TERMINAL CABINET.



1 FIRST FLOOR PLAN - FIRE ALARM - NEW WORK - ENT
1/8" = 1'-0"

2 FIRST FLOOR PLAN - FIRE ALARM - NEW WORK - PODIATRY
1/8" = 1'-0"



KEY PLAN

N 0 4' 8' 16' 24'
1/8" = 1'-0"

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Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title: FLOOR PLAN - FIRE ALARM - NEW WORK Approved:	Phase: FINAL BID DOCUMENTS FULLY SPRINKLERED
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS Location: ASHEVILLE VAMC Issue Date: 03/12/2026 · Checked: TDB · Drawn: CVM	Project Number VA Project No. 637-22-102 AG Project No. 0123039 Building Number Drawing Number: FA101	

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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE VALVE		OS&Y VALVE
	BALL VALVE		FIRE DEPARTMENT CONNECTION
	ALARM CHECK VALVE		FIRE PROTECTION RISER
	PRESSURE REGULATING VALVE		PIPE TURNING DOWN
	BUTTERFLY VALVE		PIPE TURNING UP
	FLOW SWITCH		FLUSHING CONNECTION OR CAP
		FS	FLOW SWITCH
		TS	TAMPER SWITCH
		HOSE	HOSE LINE CABINET

HAZARD CLASSIFICATION KEY	
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1
	ORDINARY HAZARD GROUP 2
	N/A

GENERAL LEGEND

SYMBOL	DESCRIPTION
FP 1	FIRE PROTECTION RISER DESIGNATION: FP = RISER IDENTIFYING SYSTEM TYPE 1= RISER IDENTIFYING SYSTEM NUMBER
A SIM B	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN SIM = SIMILAR (ONLY NOTED IF IT APPLIES)
A	TITLE SYMBOL ON SHEET WHERE SHOWN A = IDENTIFYING NUMBER/LETTER
1 REV DESCR	REVISION CLOUD AND REVISION NUMBER. REVISION DESCRIPTION SHOWN IN ITALICS.
1	SHEET NOTE CALLOUT
	DEMOLISH TO POINT INDICATED
	CONNECT TO EXISTING

FIRE PROTECTION ABBREVIATIONS

ABBR.	DESCRIPTION
AS	ABOVE SLAB
AHJ	AUTHORITY HAVING JURISDICTION
AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN STANDARDS TESTING MATERIALS
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOR	BOTTON OF RISER
BS	BELOW SLAB
CAP	CAPACITY
CONN	CONNECTION
CONT	CONTINUOUS
CV	CHECK VALVE
DIA	DIAMETER
DN	DOWN
DP	DRY PENDENT
DS	DRY SIDE WALL
DWG	DRAWING
ELEV	ELEVATION
°F	DEGREES FAHRENHEIT
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FM	FACTORY MUTUAL
FP	FIRE PROTECTION
FS	FLOW SWITCH
FT	FEET
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HR	HOUR
HYD	HYDRANT
HZ	HERTZ
IE	INVERT ELEVATION
ID	INTERNAL DIAMETER
IN	INCHES
IPS	INTERNATIONAL PIPE STANDARD

ABBR.	DESCRIPTION
KW	KILOWATT
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW AND YOLK
P	PUMP
PH	PHASE
PIV	POST INDICATING VALVE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PS	PRESSURE SWITCH
QR	QUICK RESPONSE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FEET
SPEC	SPECIFICATIONS
SR	STANDARD RESPONSE
STD	STANDARD
TEMP	TEMPERATURE
TDH	TOTAL DYNAMIC HEAD
TOR	TOP OF RISER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VIV	VALVE IN VERTICAL
VLV	VALVE
VOL	VOLUME
W/	WITH

NOTE: SOME ABBREVIATIONS AND SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

FIRE PROTECTION COMPLIANCE NOTES

BUILDING DESIGN:

A 3,500 SQ. FT. RENOVATION WILL BE COMPLETED FOR THE BUILDING 47 FIRST FLOOR ENT AND PODIATRY EXAM SPACES. THE SCOPE OF WORK AREA IS LOCATED IN EXISTING SPRINKLER ZONE X-X, WHICH IS SERVED OUT OF STAIRWELL X.

SCOPE OF WORK:

EXISTING SPRINKLER HEADS AND RETURN BENDS BACK TO THE EXISTING FIRE PROTECTION BRANCH PIPING SHALL BE DEMOLISHED AND DISPOSED OF ACCORDING TO THE SPECIFICATIONS.

NEW SPRINKLER HEADS, RETURN BENDS, AND BRANCH PIPING SHALL BE INSTALLED TO ACCOMODATE THE NEW CEILING LAYOUT. THE DELEGATED ENGINEER SHALL USE FLOW TEST INFORMATION TO COMPLETE HYDRAULIC CALCULATIONS TO SHOW THE NEW SYSTEM REMAINS IN COMPLIANCE.

PROVIDE A FULLY AUTOMATIC WET SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSIVE TYPE AND INSTALLED IN CENTER OF CEILING TILES. SPRINKLER CONTRACTOR SHALL USE FLOW DATA WHEN PERFORMING HYDRAULIC CALCULATIONS.

SPRINKLER HEADS IN LIGHT AND ORDINARY HAZARD CLASSIFICATIONS SHALL BE QUICK RESPONSE TYPE AND INSTALLED IN CENTER OF CEILING TILES. SPRINKLER CONTRACTOR SHALL USE FLOW DATA WHEN PERFORMING HYDRAULIC CALCULATIONS.

FIRE PROTECTION SPRINKLER CONTRACTOR SHALL COORDINATE THE DESIGN AND INSTALLATION OF THE FIRE PROTECTION SPRINKLER SYSTEM AND DELIVER A COMPLETE, FULLY FUNCTIONAL, AND TESTED FIRE PROTECTION SYSTEM THAT MEETS THE REQUIREMENTS OF THE FIRE PROTECTION DRAWINGS, FIRE PROTECTION SPECIFICATIONS, LISTED CODES AND STANDARDS, AND THE REQUIREMENTS OF THE AHJ. THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL NEW MATERIALS THAT ARE UL LISTED AND/OR FM APPROVED AS REQUIRED BY THE FIRE PROTECTION DRAWINGS AND THE FIRE PROTECTION SPECIFICATIONS. THE FIRE PROTECTION SPRINKLER CONTRACTOR SHALL INTEGRATE THE NEW FIRE SPRINKLER SYSTEM WITH THE EXISTING FIRE ALARM SYSTEM.

CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:

A CURRENT HYDRANT FLOW TEST SHALL BE PERFORMED AND VERIFIED PRIOR TO PRODUCTION OF LAYOUT DOCUMENTS.

FLOW TEST DATA:

-- PSI STATIC, -- PSI RESIDUAL: ---- GPM FLOWING; FLOW TEST RESULTS WAS PERFORM ON FIRE HYDRANTS ON ---------- STREET BY MR. XXXXXX AND OBSERVED BY MR. XXXXX FROM THE CITY OF ASHEVILLE ON XX/XX/ 2020 AT XX:XX AM/PM.

QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL INTERIOR FIRE PROTECTION COMPONENTS:

ALL NEW INTERIOR FIRE PROTECTION EQUIPMENT EQUIPMENT SHALL BE UL LISTED OR FM APPROVED.

VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:

THE FIRE SPRINKLER RISER FOR THIS BUILDING AND ALL CONTROL VALVES WILL BE EQUIPPED WITH A WATER FLOW SWITCH AND PRESSURE SWITCH ON PREACTION VALVE, WITH A LOCAL ALARM BELL AND FIRE ALARM PANEL.

ACCEPTANCE TEST CRITERIA:

FIRE SPRINKLER SYSTEM SHALL BE DESIGNED PER NFPA 13 AND SHALL COMPLY WITH THE LOCAL FIRE MARSHAL AND ALL AUTHORITIES HAVING JURISDICTION. THE ACCEPTANCE TESTING OF THE FIRE SPRINKLER SYSTEM AND IT'S COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON THESE TWO FORMS, NFPA 13, ANNEX A (FIG. A.29.1) CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING. SEE NFPA 13 CHAPTER 29 FOR SYSTEM ACCEPTANCE AND NFPA 25 INSPECTION TESTING AND MAINTENANCE.

1. NFPA 13 CHAPTER 29, SYSTEM ACCEPTANCE
   - A. 29.1 APPROVAL OF SPRINKLER SYSTEM
   - B. 29.2 ACCEPTANCE REQUIREMENTS
   - C. 29.3 INSTRUCTIONS
   - D. 29.4 HYDRAULIC DESIGN INFORMATION SIGNS

APPLICABLE NFPA AND VA STANDARDS TO BE APPLIED:

1. VA FIRE PROTECTION DESIGN MANUAL (FPDM) NINTH EDITION
2. INTERNATIONAL BUILDING CODE (IBC) 2024 EDITION
3. NFPA 1 FIRE CODE 2024 EDITION
4. NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2022 EDITION
5. NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2024 EDITION
6. NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2022 EDITION
7. NFPA 25 INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEM 2023 EDITION
8. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE 2022 EDITION
9. NFPA 101 LIFE SAFETY CODE 2024 EDITION
10. NFPA 170 FIRE SAFETY SYMBOLS 2024 EDITION

CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA:

LIGHT HAZARD:
SPACES WITH LOW QUANTITY AND COMBUSTIBILITY OF CONTENTS
I.E. OFFICES, EXAM ROOMS, CORRIDORS, MEETING ROOMS, BREAK ROOMS, AND RESTROOMS.

ORDINARY HAZARD GROUP 1:
SPACES WITH MODERATE QUANTITY AND LOW COMBUSTIBILITY OF CONTENTS
I.E. LABORATORIES, MECHANICAL ROOMS, ELECTRICAL ROOMS, JANITOR CLOSETS, CLEAN AND SOILED UTILITY ROOMS, AND AUTOPSY.

ORDINARY HAZARD GROUP 2:
SPACES WITH MODERATE TO HIGH QUANTITY AND COMBUSTIBILITY OF CONTENTS
I.E. NITROGEN STORAGE, MODERATE QUANTITY AND MODERATE COMBUSTIBILITY STORAGE (UP TO 12 FT IN HEIGHT),CLEAN AND SOILED LINEN ROOMS, AND LAUNDRY.

DESIGN APPROACH:

SPRINKLER SYSTEM TO EXTEND INTO ALL AREAS IN ACCORDANCE WITH NFPA 13 LIGHT HAZARD OR AS NOTED. LISTED AND APPROVED SIDEWALL (5.60 K-FACTOR) AND PENDENT (5.60 K-FACTOR) SPRINKLER HEADS TO BE PROVIDED. UPRIGHT (5.60 K-FACTOR) HEADS TO BE PROVIDED WHERE NOTED ON DRAWINGS.

LIGHT HAZARD:

SYSTEM TYPE: WET PIPE AUTOMATIC SPRINKLER SYSTEM. USING STEEL SUPPLY PIPING TO NEW QUICK RESPONSE, PENDENT OR UPRIGHT HEADS. AREAS SUBJECT TO FREEZING SHALL USE DRY BARREL TYPE SPRINKLERS.

K-FACTOR: 5.6.
DENSITY: 0.10 GPM/SQ.FT.

AREA OF OPERATION: 900 SQ FT MIN AND 1500 SQ FT MAX (DESIGN AREA REDUCTION MAY ONLY BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA 13).

HEAD TEMPERATURE RATING: 155 DEGREES F.
SPACING: 225 SQ. FT. MAX. PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE.
HOSE ALLOWANCE: 100 GPM

ORDINARY HAZARD GROUP 1:

SYSTEM TYPE: WET PIPE AUTOMATIC SPRINKLER SYSTEM. USING STEEL SUPPLY PIPING TO NEW QUICK RESPONSE, PENDENT OR UPRIGHT HEADS.

K-FACTOR: 5.6, 8.0, 11.2, OR 14.0.
DENSITY: 0.15 GPM/SQ.FT.

AREA OF OPERATION: 900 SQ FT MIN AND 1500 SQ.FT MAX.(DESIGN AREA REDUCTION MAY ONLY BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA 13).

HEAD TEMPERATURE RATING: 155 DEGREES F.
SPACING: 130 SQ. FT. MAX. PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE.
HOSE ALLOWANCE: 250 GPM

ORDINARY HAZARD GROUP 2:

SYSTEM TYPE: WET PIPE AUTOMATIC SPRINKLER SYSTEM. USING STEEL SUPPLY PIPING TO NEW QUICK RESPONSE, OR STANDARD SPRAY UPRIGHT, SEMI-RECESSED PENDENT, OR SIDEWALL HEADS.

K-FACTOR: 5.6, 8.0, 11.2, OR 14.0.
DENSITY: 0.20 GPM/SQ.FT.

AREA OF OPERATION: 900 SQ FT MIN AND 1500 SQ FT MAX (DESIGN AREA REDUCTION MAY ONLY BE USED IF CEILING HEIGHT AND AREA CLASSIFICATION PERMITS PER NFPA 13).

HEAD TEMPERATURE RATING: 155 DEGREES F.
SPACING: 130 SQ. FT. MAX. PER SPRINKLER HEAD OR BY MANUFACTURER LITERATURE.
HOSE ALLOWANCE: 250 GPM

FIRE PROTECTION GENERAL NOTES

1. FIRE PROTECTION SYSTEM SHALL COMPLY WITH NFPA 13 AND VA FIRE PROTECTION MANUAL FOR INSTALLATION OF SPRINKLER SYSTEMS. INSPECTION, TESTING, AND MAINTENANCE SHALL COMPLY TO NFPA 25. IN ADDITION, INSTALLATION AND INSPECTION, TESTING, AND MAINTENANCE SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND ALL APPLICABLE STATE, LOCAL CODES & AHJ REQUIREMENTS.
2. FINAL INSPECTION AND APPROVAL BY AUTHORITY HAVING JURISDICTION (AHJ).
3. SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE VA COR AND SHALL BE APPROVED PRIOR TO ANY INSTALLATION. THE VA COR SHALL HAVE THE RIGHT TO REJECT ANY SUBMITTALS.
4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE VA COR, ARCHITECT, AND STRUCTURAL ENGINEER.
5. FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER EXISTING TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID AN/ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
6. CONTRACTOR SHALL MAKE A FIELD VISIT TO VERIFY ARCHITECTURAL REFLECTED CEILING CONDITIONS AND ELECTRICAL LIGHTING, CEILING CONFIGURATIONS AND HEIGHTS.
7. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC., FLASH AND COUNTERFLASH ROOF PENETRATIONS.
8. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
9. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL LOCATIONS OF DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, CEILING SYSTEMS AND STRUCTURAL SYSTEM.
10. INDICATE CENTER TO CENTER DIMENSIONS AND/OR PIPE CUT LENGTHS AND NOMINAL PIPE DIAMETERS ON ALL PIPING. INDICATE PIPE TYPE, SCHEDULE OF WALL THICKNESS AND METHOD OF JOINING ON SHOP DRAWING.
11. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH NFPA 13.
12. PROVIDE DETAIL AND INDICATE TYPE OF HANGERS TO BE INSTALLED FOR SPRINKLER PIPING. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13. ALL HANGERS ON 4" PIPE AND LARGER SHALL BE CLEVIS-TYPE HANGERS. HANGERS SHALL NOT INTERFERE WITH ANY OTHER TRADE. POWDER DRIVEN STUDS SHALL NOT BE USED.
13. ALL GROOVED & SCREWED FITTINGS SHALL BE UL/FM APPROVED AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO ANY INSTALLATION. THE ENGINEER OF RECORD RESERVES THE RIGHT TO DISAPPROVE ANY FITTING. ALL SCREWED PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH SPECIFICATIONS ASTM A120 AND SHALL BE JOINED BY SCREWED JOINTS IN ACCORDANCE WITH SPECIFICATION ANSI B2.1. ALL GROOVED PIPING 2-1/2" OR LARGER SHALL BE SCHEDULE 10 BLACK STEEL.
14. WELD-O-LETS SHALL BE TWO SIZES SMALLER THAN CROSS MAIN. NO LENGTH OF CROSS MAIN SHALL BE GREATER THAN 10'-0". ALL SPRINKLER PIPING & FITTINGS SHALL BE INSTALLED ABSOLUTELY RUST-FREE.
15. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13.
16. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" OR "FM", AND RATED FOR 175 WORKING PRESSURE.
17. ELECTRICALLY SUPERVISED VALVES SHALL BE PROVIDED WHERE REQUIRED IN NFPA 13. TYPE AND EXACT LOCATION AND PURCHASE/INSTALLATION OF FLOW AND SUPERVISORY SWITCHES SHALL BE BY THE SPRINKLER CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL CIRCUITS, WIRING, SWITCHES, CONDUIT OR JUNCTION BOXES REQUIRED.
18. SPRINKLER COVERAGE SHALL COMPLY WITH NFPA 13. SPRINKLER LOCATIONS WITH RESPECT TO OBSTRUCTIONS SHALL COMPLY WITH NFPA 13-2022, CHAPTER 9, OR THE APPROPRIATE CHAPTER BASED ON SPRINKLER TYPE.
19. IMMEDIATELY NOTIFY THE VA COR OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS, OTHER ENGINEERING PLANS, THE ARCHITECTURAL PLANS AND/OR FIELD CONDITIONS PRIOR TO FINAL BID PRICE OR FINAL PERMITTING.
20. IN CASE OF DISPUTE OR DOUBT AS TO INTENT OF DRAWINGS OR SPECIFICATIONS, OBTAIN ARCHITECT/ENGINEER'S WRITTEN DECISION BEFORE PROCEEDING WITH BID OR WORK INVOLVED.
21. BEFORE SUBMITTING PROPOSAL OR BID, EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT. THE AMOUNT OF SPACE AVAILABLE FOR PIPING, EQUIPMENT AND CONNECTING SERVICES. THIS SCOPE OF SITE OF THE WORK. THE REQUIREMENTS TO CORRELATE THE FIRE PROTECTION WORK WITH THAT OF OTHER TRADES AND THE TIME SCHEDULE NECESSARY TO PERFORM THAT WORK.
22. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY, AND AFTER ASSEMBLY THE ENTIRE PIPING SYSTEM SHALL BE FLUSHED CLEAN.
23. ADJUST NEW SPRINKLER PIPING AND SPRINKLER HEAD PLACEMENT TO ACCOMMODATE EXISTING CEILING HEIGHTS AND STRUCTURAL CONFIGURATIONS.
24. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4 FEET OR WIDER.
25. PROVIDE HAZARD COVERAGE FOR THE FUNCTIONS FOR EACH AREA.
26. INDICATE THE LOCATION AND SIZE OF BLIND SPACES AND CLOSETS.
27. INDICATE THE TOTAL SQUARE FOOT AREA PROTECTED BY SYSTEM(S).
28. INDICATE THE NUMBER OF SPRINKLERS ON EACH RISER.
29. ALL PENDENT SPRINKLERS SHALL BE CENTER OF TILE, UNLESS MAXIMUM DISTANCES FROM WALLS OR BETWEEN HEADS IS EXCEEDED OR UNLESS SHOWN DIFFERENTLY ON DRAWINGS. IF NOT POSSIBLE ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS, CEILING GRID MEMBERS, CEILING HEIGHT CHANGES OR ANY OTHER VERTICAL INTERSECTING STRUCTURAL SURFACE.
30. FIRE PROTECTION CONTRACTOR SHALL ASSIST IN PREPARATION OF COORDINATION DRAWINGS FOR ALL LEVELS WHICH INDICATE ALL THE ENGINEERING DISCIPLINES & FIRE PROTECTION PIPING. THESE DRAWINGS SHALL BE PREPARED & APPROVED BY THE ENGINEER OF RECORD PRIOR TO ANY INSTALLATION.
31. FIRE SPRINKLER PIPING SHALL NOT TRAVEL OVER THE TOPS OF ELECTRICAL PANELBOARDS.
32. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS IN EACH AREA.
33. ALL EXPOSED PIPING SHALL BE SHALL BE PAINTED RED.
34. ALL MATERIALS, WHERE APPLICABLE, SHALL BE U.L. LISTED OR FACTORY MUTUAL APPROVED FOR USE IN AUTOMATIC SPRINKLER SYSTEMS. ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS IN ACCORDANCE WITH NFPA 13. MINIMUM HYDROSTATIC TEST PRESSURE SHALL BE 200 PSI.
35. FLEXIBLE SPRINKLER CONNECTIONS SHALL ONLY BE PERMITTED UPON VA APPROVAL. IF FLEXIBLE SPRINKLER CONNECTIONS ARE PERMITTED AND USED, HYDRAULIC CALCULATIONS MUST BE PERFORMED AND SUBMITTED TO THE VA COR.
36. THE SMALL ROOM RULE SHALL BE ACCEPTABLE FOR PLACEMENT OF SPRINKLERS PER NFPA 13, 10.2.5.2.3.
37. UPON SPRINKLER SYSTEM IMPAIRMENT, NFPA 25, 15.5.2 SHALL BE FOLLOWED DURING SPRINKLER SYSTEM DOWNTIME. APPROVED PERSONNEL SHALL COORDINATE REQUIREMENTS PER NFPA 25, SUCH AS AN APPROVED FIRE WATCH IF REQUIRED. IMPAIRMENT PROCEDURES REQUIRED TO BE TAKEN SHALL BE INCLUDED IN CONTRACTOR'S BUDGET.

SHEET LIST

SHEET NUMBER	SHEET NAME
FP001	FIRE PROTECTION LEGENDS & SYMBOLS
FX101	FIRST FLOOR PLAN - FIRE PROTECTION - DEMO
FP101	FIRST FLOOR PLANS - HAZARD CLASSIFICATION - NEW WORK
FP501	FIRE PROTECTION DETAILS

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Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JOSHUA CALHOUN ENGINEER No. PE093054

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION LEGENDS & SYMBOLS

Phase: FINAL BID DOCUMENTS

Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS

Project Number
VA Project No. 637-22-102
AG Project No. 0123039

Building Number

Approved:

Location: ASHEVILLE VAMC

FULLY SPRINKLERED

Issue Date: 03/12/2026
Checked: JMC
Drawn: CAP

Drawing Number: FP001

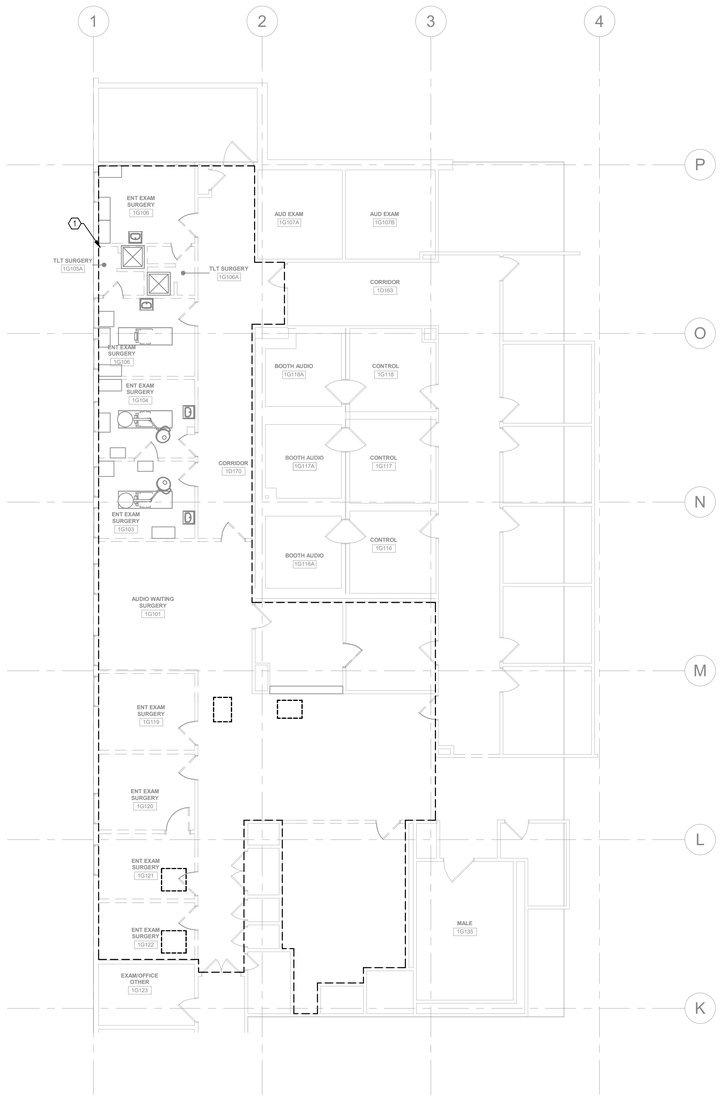
VA FORM 08 - 6231

DRAWING NOTES:

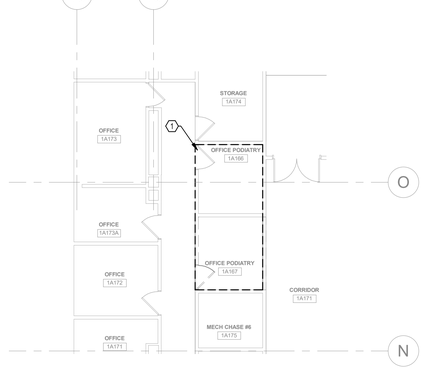
1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE VA COR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
2. UPON SPRINKLER SYSTEM IMPAIRMENT, NFPA 25-2023, 15.5.2 SHALL BE FOLLOWED DURING SPRINKLER SYSTEM DOWNTIME. APPROVED PERSONNEL SHALL COORDINATE REQUIREMENTS PER NFPA 25, SUCH AS AN APPROVED FIRE WATCH IF REQUIRED.
3. UNLESS NOTED OTHERWISE, ALL OTHER SPRINKLERS AND SPRINKLER PIPING OUTSIDE OF THE SCOPE OF WORK AREA SHALL REMAIN, AND SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.

CODED NOTES:

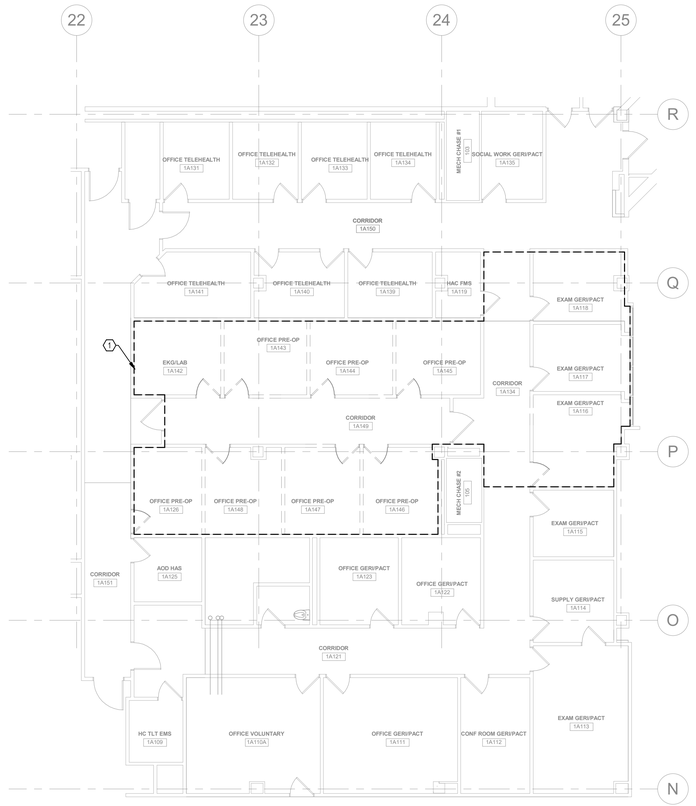
1 REMOVE EXISTING SPRINKLER HEADS IN THIS AREA. REMOVE EXISTING RETURN BENDS/PIPING BACK TO EXISTING FIRE PROTECTION BRANCH PIPE. PREPARE PIPING FOR NEW CONNECTION.



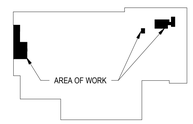
1 FIRST FLOOR PLAN - FIRE PROTECTION - DEMOLITION - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - FIRE PROTECTION - DEMOLITION - PODIATRY WAITING
1/8" = 1'-0"



3 FIRST FLOOR PLAN - FIRE PROTECTION - DEMOLITION - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

Revisions	Date	

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR PLAN - FIRE PROTECTION - DEMO	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102, AG Project No. 0123039
			Building Number: 47
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Drawing Number: FX101
		Issue Date: 03/12/2026 / Checked: JMC / Drawn: CAP	

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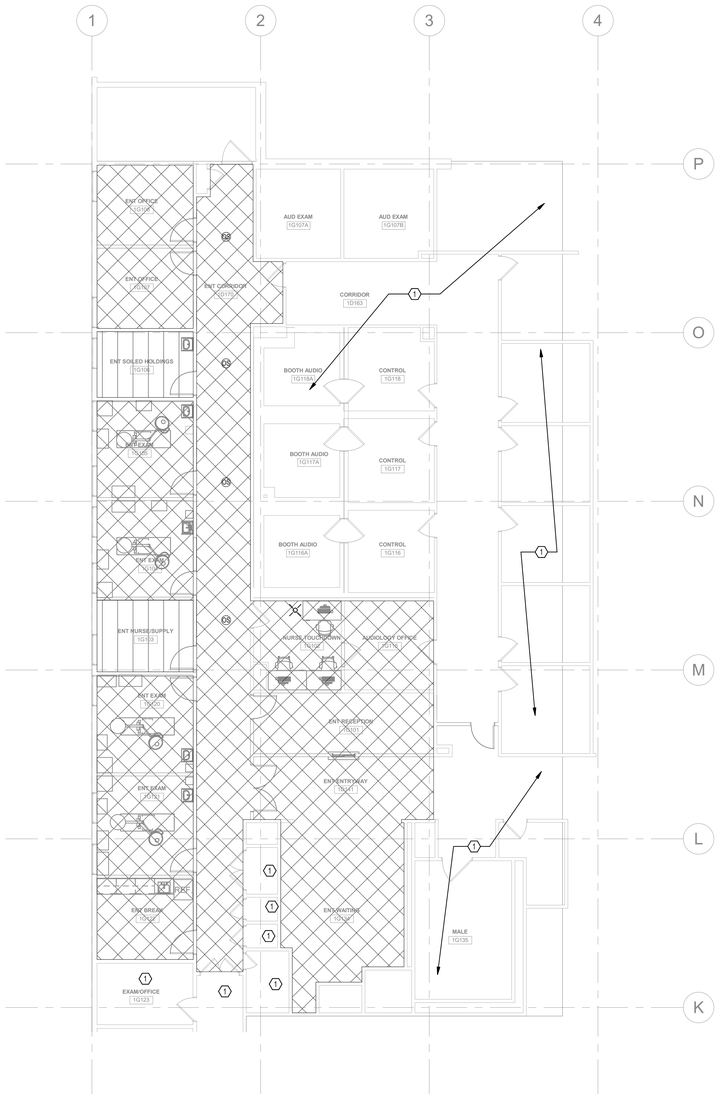
DRAWING NOTES:

1. COORDINATE SPRINKLER HEIGHT WITH ARCHITECTURAL RCP. REFER TO ARCHITECTURAL PLANS.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE VA COR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK. ALL REQUIREMENTS OF VAFPDM SECTION 1.4 MUST BE FOLLOWED.

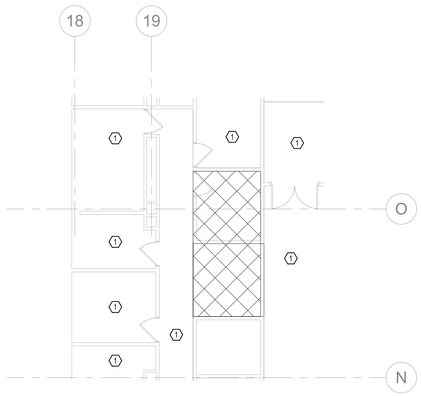
CODED NOTES:

(1) EXISTING SPACES TO REMAIN. SPRINKLER HEADS AND BRANCH PIPING TO REMAIN IN PLACE.

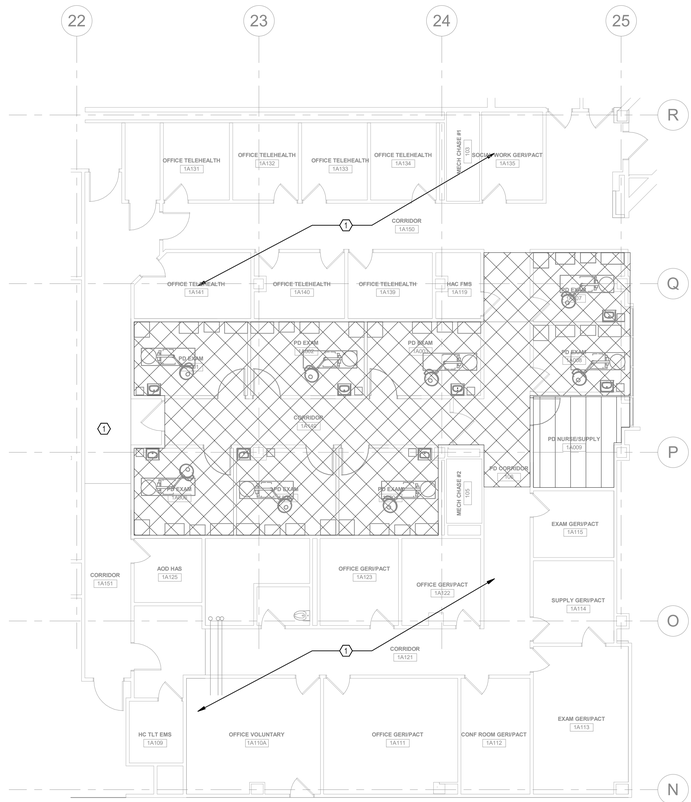
KEY	HAZARD CLASSIFICATION
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 2
	N/A



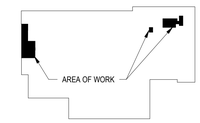
1 FIRST FLOOR PLAN - HAZARD CLASSIFICATION PLAN - NEW WORK - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - HAZARD CLASSIFICATION PLAN - NEW WORK - PODIATRY WAITING
1/8" = 1'-0"



3 FIRST FLOOR PLAN - HAZARD CLASSIFICATION PLAN - NEW WORK - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR PLANS - HAZARD CLASSIFICATION - NEW WORK	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102, AG Project No. 0123039
			Building Number: 47
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Drawing Number: FP101
		Issue Date: 03/12/2026 / Checked: JMC / Drawn: CAP	

Revisions | Date

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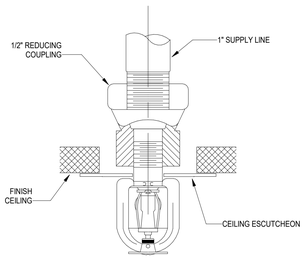
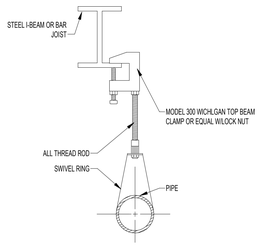
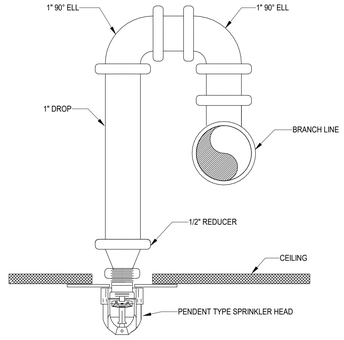


NOTE: ALL NEW SPRINKLERS SHALL BE UL LISTED, FM APPROVED, AND QUICK RESPONSE.

1 PENDENT SPRINKLER HEAD DETAIL
N.T.S.



2 BOTTOM BEAM CLAMP DETAIL
N.T.S.

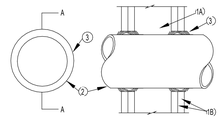


NOTE:

1. THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG SHALL NOT EXCEED 24 IN FOR STEEL PIPE OR 12 IN FOR COPPER PIPE PER NFPA 13 17.4.3.5

3 RETURN BEND DETAIL
N.T.S.

System No. W-L-1001
(Formerly System No. 147)
F Rating--1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings--0, 1, 2, 3, and 4 Hr (See Items 2 and 3)
L Rating at Ambient--less than 1 CFM/sq ft
L Rating At 400 F--less than 1 CFM/sq ft



SECTION A-A

1. WALL ASSEMBLY--THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS--WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED) ASSEMBLIES OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN.OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. WALLBOARD, GYPSUM *--NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAM OF OPENING IS 13-1/2 IN.
2. PIPE OR CONDUIT--NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.

Max pipe or Conduit Diam In.	Annular Space In.	F Rating Hr.	T Rating Hr.
1	3 to 3/16	1 or 2	0+, 1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1-1/2	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

+When copper is used, T Rating is 0h.
Minnesota Mining & Mfg. Co. --Types FB-2000, FB-2000+.
*Bearing the UL Classification Marking

4 WALL - DRYWALL - PIPE - 1/2/3/4 HR
N.T.S.

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JOSHUA CALHOUN No. PE091054

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	FIRE PROTECTION DETAILS
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Location	ASHEVILLE VAMC
Issue Date	03/12/2026
Checked	JMC
Drawn	CAP
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	
Drawing Number	FP501

VA FORM 08 - 6231

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PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	NEW PIPING
	EXISTING PIPING
	DEMOLISHED PIPING
G	NATURAL GAS PIPING
MA	MEDICAL COMPRESSED AIR PIPING
CW	COLD WATER PIPING
HW	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
SAN U/G	SANITARY DRAINAGE PIPING (UNDERGROUND)
SAN	SANITARY DRAINAGE PIPING (ABOVE SLAB)
STO	STORM OVERFLOW (SECONDARY)
ST	STORM (PRIMARY)
ST U/G	STORM PIPING (UNDERGROUND)
V	VENT PIPING
CD	CONDENSATE PIPING
OR	CLEANOUTS
	PIPE END CAP
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE TURNING DOWN (TEE)
	PIPING TEE
	ROLL DOWN
	P-TRAP
	FLOW ARROW
HB-1 OR WHY-1	HOSE BIBB / WALL HYDRANT
	PRESSURE GAUGE
	CIRCULATING PUMP
	BALL VALVE
	CALIBRATING BALANCING VALVE
	BUTTERFLY VALVE
	UNION
	STRAINER
	CONTROL VALVE
	PSI REG.
	PSI REG.
	CHECK VALVE
	FLOW SWITCH
	FLEX CONNECTION
	THREE-WAY CONTROL VALVE
	THERMOMETER
	RELIEF VALVE
	VALVE ON RISER
	TEST PLUG
	FLOW SWITCH
	PRESSURE SWITCH
	GLOBE VALVE
	AUTOMATIC AIR VENT

SYMBOL	DESCRIPTION
A / 1	PLUMBING RISER DESIGNATION: A = RISER IDENTIFYING SYSTEM TYPE 1 = RISER IDENTIFYING SYSTEM NUMBER
A / B SIM	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN SIM = SIMILAR (ONLY NOTED IF IT APPLIES)
A	TITLE SYMBOL ON SHEET WHERE SHOWN A = IDENTIFYING NUMBER/LETTER
1	REVISION CLOUD AND REVISION NUMBER
1	SHEET NOTE CALLOUT
	DEMOLISH TO POINT INDICATED
	CONNECT TO EXISTING
PDI-"A"	WATER HAMMER ARRESTER & SIZE
	GATE VALVE
	BALL VALVE
	CIRCUIT SETTER VALVE
	CHECK VALVE
	THERMOSTATIC MIXING VALVE
	PRESSURE REGULATING VALVE
	BUTTERFLY VALVE

WATER HAMMER ARRESTOR

SYMBOL	PIPE SIZE	PDI STANDARD	FIXTURE UNIT CAP.
	1/2"	A	1 TO 11
	3/4"	B	12 TO 32
	1"	C	33 TO 60
	1-1/4"	D	61 TO 113

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

PLUMBING ABBREVIATIONS

ABBR.	DESCRIPTION
AS	ABOVE SLAB
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
ASTM	AMERICAN STANDARDS TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BFP	BACKFLOW PREVENTER
BS	BELOW SLAB
BF	BELOW FLOOR
BG	BELOW GRADE
CA	COMPRESSED AIR
CD	CONDENSATE
CO	CLEANOUT
CONN	CONNECTION
CONT	CONTINUOUS
CP	CIRCULATING PUMP
CW	COLD WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DW	DOMESTIC WATER
DWV	DRAIN WASTE AND VENT
ECO	EXTERIOR CLEANOUT
ELEV	ELEVATION
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FIN	FINISH
FL	FLOOR
FPS	FEET PER SECOND
FT	FEET
FU	FIXTURE UNITS
G	NATURAL GAS
GAL	GALLON(S)
GPM	GALLONS PER MINUTE
GR	GREASE WASTE
HB	HOSE BIBB
HP	HORSEPOWER
HR	HOUR
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IE	INVERT ELEVATION
ID	INTERNAL DIAMETER
IN	INCHES
IPS	INTERNATIONAL PIPE STANDARD
IRR	IRRIGATION WATER
KW	KILOWATT
LAV	LAVATORY
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
MNTG	MOUNTING
MS	MOP SINK
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NSF	NATIONAL SANITATION FOUNDATION
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OFWL	OVERFLOW RAIN WATER LEADER
PDI	PLUMBING DRAINAGE INSTITUTE
PH	PHASE
PPP	PRECISION PLUMBING PRODUCTS
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RWL	RAIN WATER LEADER
S	SANITARY
SAN	SANITARY
SH	SHOWER
SK	SINK
SL	SODA LINE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
ST	STORM
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TET	THERMAL EXPANSION TANK
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
VIV	VALVE IN VERTICAL
VLV	VALVE
VOL	VOLUME
W	WATTS
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WHY	WALL HYDRANT
WFU	WATER SUPPLY FIXTURE UNITS

SHEET LIST

SHEET NUMBER	SHEET NAME
P-001	PLUMBING NOTES, LEGENDS, & SYMBOLS
PD101	BASEMENT FLOOR PLANS - DWV PIPING - DEMO
PD102	FIRST FLOOR PLANS - DWV PIPING - DEMO
PD111	FIRST FLOOR PLANS - PRESSURE PIPING - DEMO
PS101	BASEMENT FLOOR PLANS - DWV PIPING - NEW WORK
PS102	FIRST FLOOR PLANS - DWV PIPING - NEW WORK
PP101	FIRST FLOOR PLANS - PRESSURE PIPING - NEW WORK
P-601	PLUMBING ISOMETRICS
P-801	PLUMBING DETAILS AND SCHEDULES

PLUMBING GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED IN DETAILS AND/OR RISER DIAGRAMS WHETHER OR NOT INDICATED ON PLANS AND VICE VERSA. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
2. LOCATE VALVES IN ACCESSIBLE AREAS WHERE NECESSARY. (12"X12" MIN.)
3. COORDINATE ACTUAL LOCATIONS OF MECHANICAL FLOOR DRAINS WITH FINAL EQUIPMENT LOCATIONS ON SHOP DRAWINGS.
4. VENT PIPING SHOWN IS ONLY FOR DIAGRAMMATIC PURPOSES. COORDINATE VTRS WITH HVAC AIR INTAKES.
5. PROVIDE BACKWATER VALVES FOR CONDENSATE PIPING CONNECTIONS TO STORM SEWER.
6. ROUTE WATER HEATER T&P VALVE PIPING TO BUILDING EXTERIOR WHERE POSSIBLE. ALTERNATE DISCHARGE LOCATIONS WILL BE MOP SINKS OR ADJACENT FLOOR DRAINS ONLY.
7. PROVIDE PIPE MARKER FOR ALL PIPING ABOVE THE CEILING SPACES IN ACCORDANCE WITH DIVISION 22 SPECIFICATION SECTION. "IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT".
8. LABEL VALVES ABOVE CEILINGS AND IN CONCEALED SPACES AT CEILING TILE WITH METAL CEILING TACKS INDICATING VALVE # AND TYPE OF WATER. (i.e.; BLUE= COLD WATER, LETTERING CW V.LV1-001).
9. PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI-WH201 IN ALL HW AND CW SUPPLY PIPING WITH QUICK CLOSING VALVES AS REQUIRED. AIR CHAMBERS ARE NOT ACCEPTABLE SUBSTITUTIONS.
10. PROVIDE THERMAL INSULATION FOR HOT WATER AND HOT WATER RETURN PIPING IN ACCORDANCE WITH THE ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION AND PER SPECIFICATIONS.
11. PROVIDE CLEANOUTS AT THE BASE OF EACH SANITARY STACK. SIZE CLEANOUTS TO MATCH THE PIPING SERVED. SPACE FLOOR CLEANOUTS AT 100'-0" MAX. ALSO PROVIDE CLEANOUTS IN HORIZONTAL CHANGE OF DIRECTION > 45°.
12. THE MANUFACTURERS OF EQUIPMENT SHOWN ARE THE BASIS OF DESIGN. SEE SPECIFICATION FOR OTHER ACCEPTABLE MANUFACTURERS.
13. FIRE CAULK AND SLEEVE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLANS FOR RATED ASSEMBLY LOCATIONS. REFER TO ARCHITECTURAL SHEETS FOR DETAILS AND UL ASSEMBLY NUMBERS.
14. REFER TO ARCHITECTURAL SHEETS FOR FIXTURE MOUNTING.
15. COORDINATE UNDERGROUND PIPING INVERT ELEVATIONS WITH STRUCTURAL FOOTING ELEVATIONS AND CIVIL INVERT CONNECTIONS PRIOR TO ANY UNDERGROUND PIPING INSTALLATIONS.
16. COORDINATE CEILING PIPING AND ELEVATIONS IN SHOP DRAWINGS WITH ALL OTHER TRADES (I.E. HVAC, FIRE PROTECTION, ELECTRICAL, TELECOMM, STRUCTURAL, ETC.) PRIOR TO ANY INSTALLATION TO ENSURE PROPER CLEARANCES AND PENETRATIONS.
17. SLOPE SANITARY PIPING 2-1/2" OR LESS AT 1/4" PER FOOT. SLOPE SANITARY PIPING 3" AND LARGER AT 1/8" PER FOOT.
18. VALVES AND FITTINGS SHALL BE THE SAME SIZE AS THE PIPING WHERE THEY ARE LOCATED UNLESS NOTED OTHERWISE.
19. PROVIDE ALL NECESSARY SUPPORTING DEVICES FOR FIXTURES PER MANUFACTURER INSTALLATION INSTRUCTIONS.
20. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS WITH DEEP SEAL P-TRAPS. ALL DRAINS NOT RECEIVING CONTINUOUS DISCHARGE SHALL BE PROVIDED WITH TRAP PRIMER CONNECTIONS TO ENSURE TRAP SEAL PROTECTION.
21. ROUGH-IN WASTE AND WATER SUPPLIES FOR FIXTURES AND PERFORM FINAL CONNECTIONS PER MANUFACTURER RECOMMENDATIONS.
22. THE CONTRACTOR SHALL BASE THEIR PROPOSAL UPON THE EQUIPMENT AS SCHEDULED USING THE MANUFACTURERS AND MODEL NUMBERS AS SCHEDULED ON THE DRAWINGS. IF THE CONTRACTOR WISHES TO USE EQUIPMENT NOT SCHEDULED, THEY MAY SUBMIT TO ENGINEER FOR REVIEW AND COMPLIANCE WITH CONTRACT DOCUMENTS.
23. COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
24. ALL AUTOMATIC CONTROL, PROTECTIVE OR SIGNAL DEVICES REQUIRED FOR THE OPERATION SPECIFIED, SHALL BE PROVIDED WITH ANY CONTROL WIRING AND INSTALLED PER MANUFACTURERS REQUIREMENTS.
25. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
26. SHOP DRAWING SUBMITTALS SHALL BE FULLY COORDINATED PRIOR TO SUBMITTAL.

APPLICABLE CODES

1. VA PLUMBING DESIGN MANUAL 2024 EDITION
2. INTERNATIONAL BUILDING CODE: CONFORM IN STRICT COMPLIANCE TO THE INTERNATIONAL BUILDING CODE AND THE AMENDMENTS WHICH ARE ENFORCED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
   A. INTERNATIONAL BUILDING CODE (IBC) 2024 EDITION
   B. INTERNATIONAL PLUMBING CODE (IPC) 2024 EDITION
   C. INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2024 EDITION
3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), INCLUDING (BUT NOT LIMITED TO):
   A. NATIONAL ELECTRICAL CODE (NFPA 70 - NEC) 2023 EDITION
   B. HEALTH CARE FACILITIES CODE (NFPA 99) 2024 EDITION
   C. LIFE SAFETY CODE (NFPA 101) 2024 EDITION
4. VA SUSTAINABLE DESIGN MANUAL 2017 EDITION
5. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
6. AMERICANS WITH DISABILITIES ACT (ADA)
7. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
8. APPLICABLE REGULATORY REQUIREMENTS AND ADVISORY PRACTICES OF APPROPRIATE AUTHORITIES HAVING JURISDICTION (AHJs)
9. APPLICABLE STANDARDS, REGULATIONS, AND PRACTICES OF THE OWNER

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JOSHUA CALHOUN PE093054

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING NOTES, LEGENDS, & SYMBOLS	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number
		Issue Date: 03/12/2026	Checked: JMC
		Drawn: CAP	Drawing Number: P-001

Autodesk Docs://0123039 - VAMC Asheville - Patient Improvements/0123039_VA Asheville - Patient Improve_R23_MEPFAFPT.rvt
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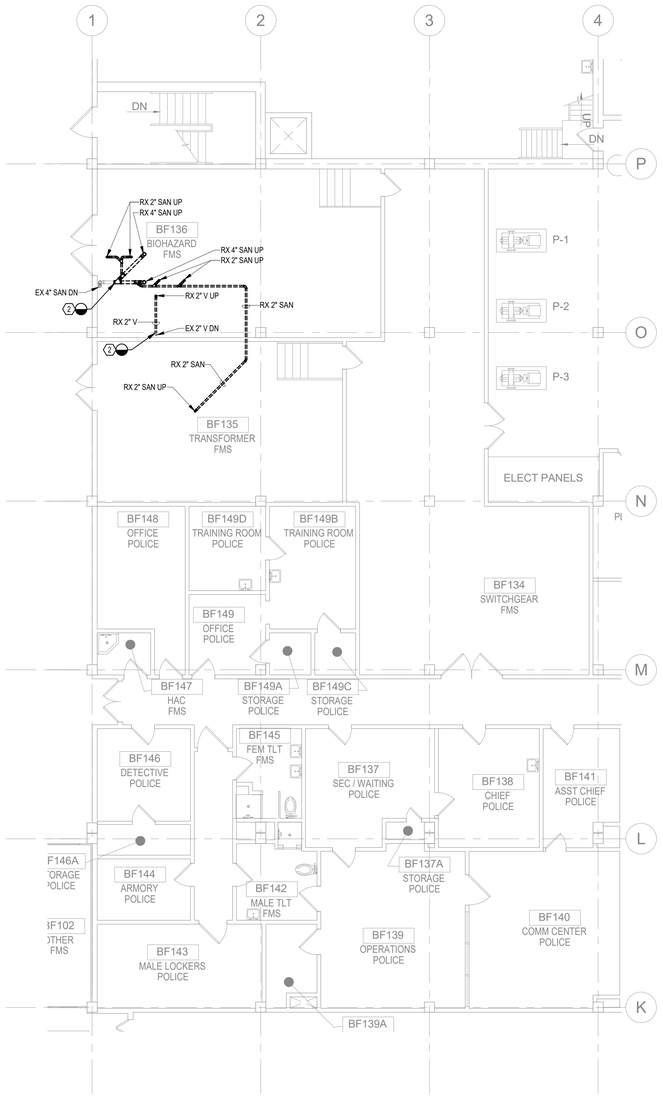
DRAWING NOTES:

1. EXISTING CONDITIONS ARE BASED ON LIMITED SITE INVESTIGATION AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY THE COR IN WRITING OF ANY DEVIATIONS.
2. PIPING LISTED AS "U/G" IS UNDERNEATH THE SLAB OF THE BASEMENT FLOOR. ALL OTHER PIPING IS BELOW THE FIRST FLOOR SLAB AND ABOVE THE BASEMENT SLAB UNLESS OTHERWISE NOTED.

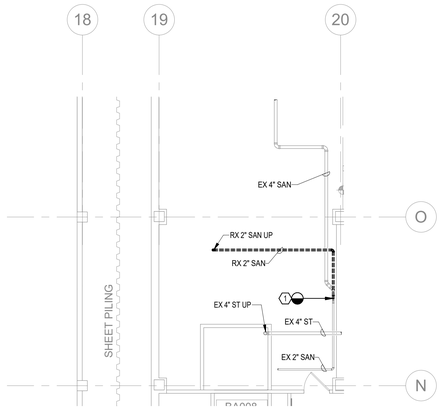
CODED NOTES:

(1) REMOVE EXISTING PIPING BACK TO POINT UNDERSLAB AND CAP PIPING.

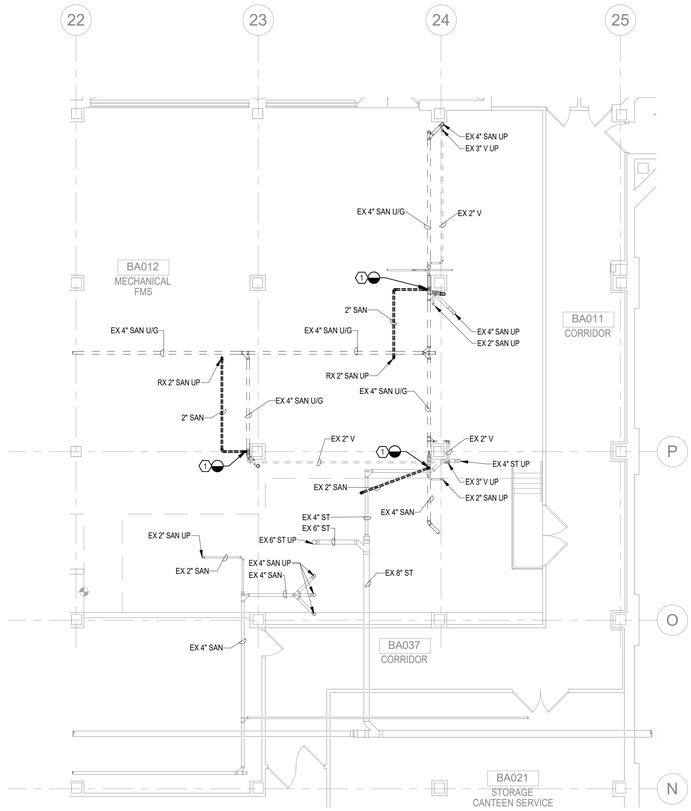
(2) REMOVE EXISTING PIPING BACK TO POINT INDICATED AND PREPARE FOR RECONNECTION IN NEW WORK. REFER TO PS101 FOR ADDITIONAL INFORMATION.



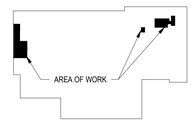
1 BASEMENT FLOOR PLAN - DWV PIPING - DEMOLITION - ENT
1/8" = 1'-0"



2 BASEMENT FLOOR PLAN - DWV PIPING - DEMOLITION - PODIATRY WAITING
1/8" = 1'-0"



3 BASEMENT FLOOR PLAN - DWV PIPING - DEMOLITION - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BASEMENT FLOOR PLANS - DWV PIPING - DEMO	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number: 47
		Issue Date: 03/12/2026 / Checked: JMC / Drawn: CAP	Drawing Number: PD101

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DRAWING NOTES:

1. EXISTING CONDITIONS ARE BASED ON LIMITED SITE INVESTIGATION AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY THE COR IN WRITING OF ANY DEVIATIONS.

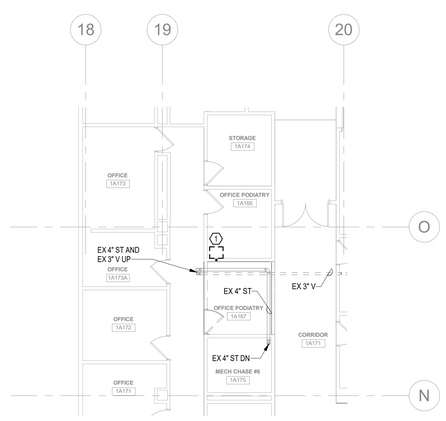
CODED NOTES:

(1) REMOVE PLUMBING FIXTURE IN SCOPE AREA. REMOVE SANITARY AND VENT PIPING BACK TO NEAREST MAIN AND PREPARE FOR NEW CONNECTION. REFER TO PD101 FOR PIPING DEMOLITION WITHIN BASEMENT.

(2) REMOVE PLUMBING FIXTURE IN SCOPE AREA. REMOVE P-TRAP AND ASSOCIATED PIPING WITHIN ROOM BACK TO PIPING WITHIN WALL. PREPARE PIPING WITHIN WALL FOR NEW WORK. REFER TO PD101 FOR PIPING DEMOLITION WITHIN BASEMENT.

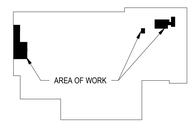
(3) EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING SHALL REMAIN.

1 FIRST FLOOR PLAN - DWV PIPING - DEMOLITION - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - DWV PIPING - DEMOLITION - PODIATRY WAITING
1/8" = 1'-0"

3 FIRST FLOOR PLAN - DWV PIPING - DEMOLITION - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title: FIRST FLOOR PLANS - DWV PIPING - DEMO Approved:	Phase: FINAL BID DOCUMENTS FULLY SPRINKLERED
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS Location: ASHEVILLE VAMC Issue Date: 03/12/2026 · Checked: JMC · Drawn: CAP	Project Number: VA Project No. 637-22-102, AG Project No. 0123039 Building Number: 47 Drawing Number: PD102	

Revisions | Date

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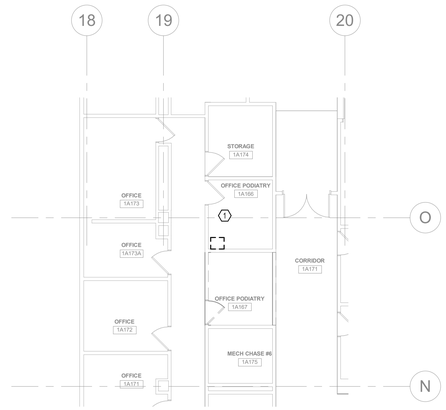
DRAWING NOTES:

1. EXISTING CONDITIONS ARE BASED ON LIMITED SITE INVESTIGATION AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY THE COR IN WRITING OF ANY DEVIATIONS.

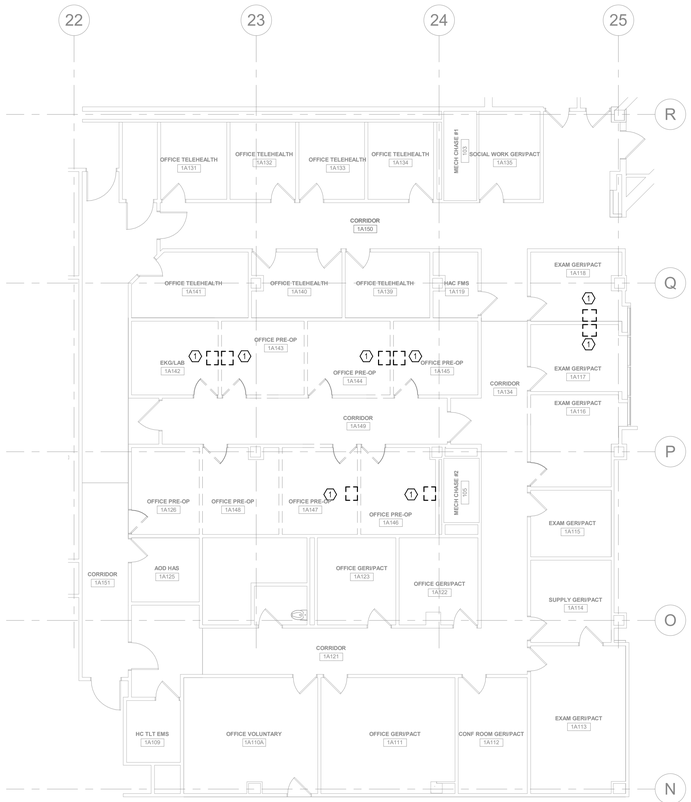
CODED NOTES:

1 REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED COLD AND HOT WATER PIPING BACK TO NEAREST BRANCH AND CAP. PREPARE EXISTING TO REMAIN PIPING FOR NEW CONNECTION.

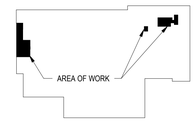
1 FIRST FLOOR PLAN - PRESSURE PIPING - DEMOLITION - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - PRESSURE PIPING - DEMOLITION - PODIATRY WAITING
1/8" = 1'-0"



3 FIRST FLOOR PLAN - PRESSURE PIPING - DEMOLITION - PODIATRY
1/8" = 1'-0"



KEY PLAN

0 4' 8' 16' 24'
1/8" = 1'-0"
N

Revisions	Date

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JOSHUA CALHOUN
ENGINEER
No. PE099054

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
FIRST FLOOR PLANS - PRESSURE PIPING - DEMO	FINAL BID DOCUMENTS	RENOVATE SPACE FOR PATIENT IMPROVEMENTS	VA Project No. 637-22-102 AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number: 47
		Issue Date: 03/12/2026 · Checked: JMC · Drawn: AJZ	Drawing Number: PD111

VA FORM 08 - 6231

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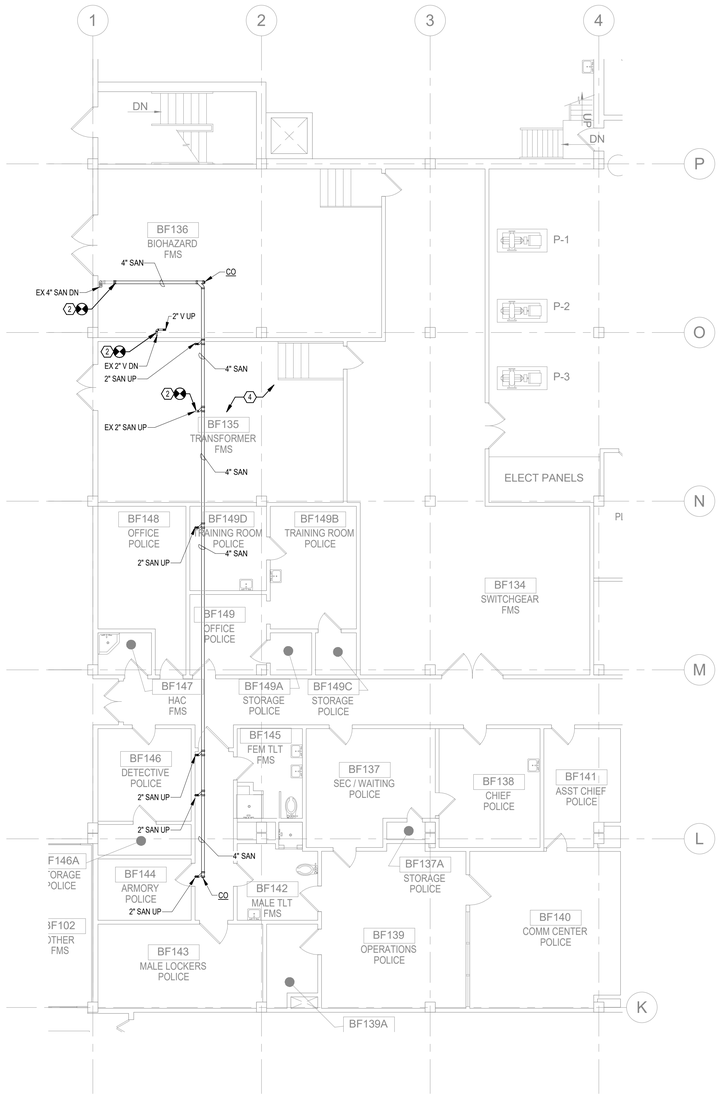
DRAWING NOTES:

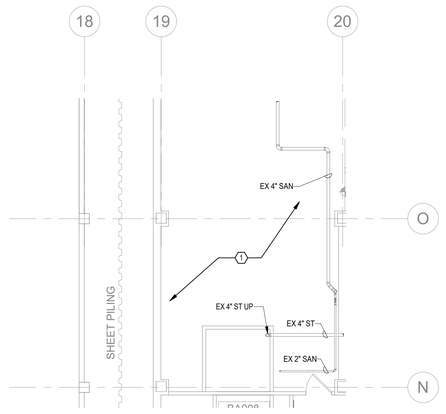
1. EXISTING CONDITIONS ARE BASED ON LIMITED SITE INVESTIGATION AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY THE COR IN WRITING OF ANY DEVIATIONS.
2. PIPING LISTED AS "U/G" IS UNDERNEATH THE SLAB OF THE BASEMENT FLOOR. ALL OTHER PIPING IS BELOW THE FIRST FLOOR SLAB AND ABOVE THE BASEMENT SLAB UNLESS OTHERWISE NOTED.

CODED NOTES:

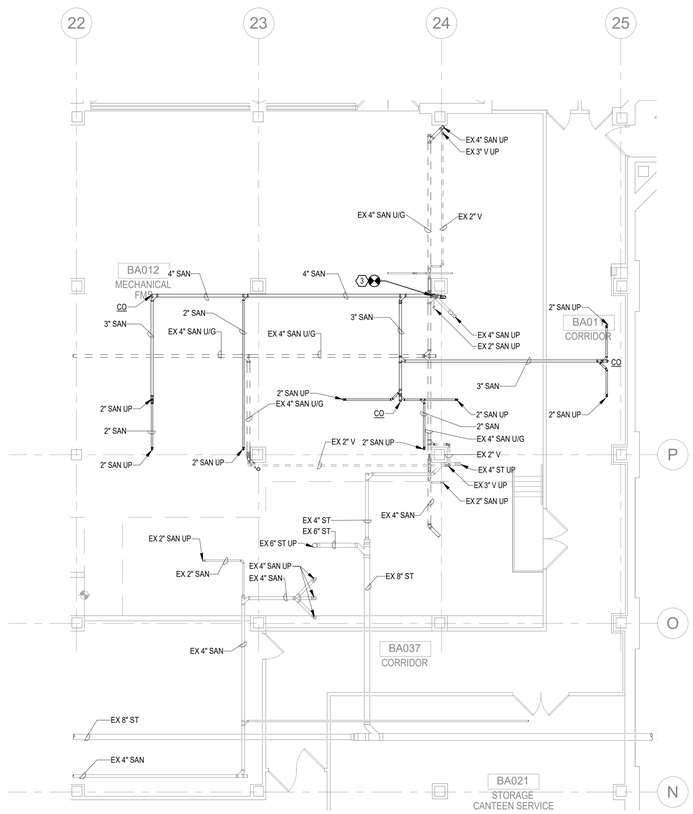
1. NO NEW DWV PIPING THIS AREA.
2. EXTEND NEW PIPING FROM POINT INDICATED AND ROUTE TO ASSOCIATED FIXTURES/LOCATIONS AS SHOWN. REFER TO PS102 FOR CONTINUATION.
3. CONNECT INTO EXISTING 4" SANITARY RISER JUST BELOW 4" SANITARY TEE SERVING FLOOR DRAIN ABOVE. OFFSET PIPING AS NECESSARY TO AVOID EXISTING DUCTWORK WITHIN MECHANICAL ROOM.
4. PROVIDE DRAIN PAN UNDERNEATH ALL SANITARY PIPING LOCATED IN ROOM.



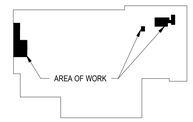
1 BASEMENT FLOOR PLAN - DWV PIPING - NEW WORK - ENT
1/8" = 1'-0"



2 BASEMENT FLOOR PLAN - DWV PIPING - NEW WORK - PODIATRY WAITING
1/8" = 1'-0"



3 BASEMENT FLOOR PLAN - DWV PIPING - NEW WORK - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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JOSHUA CALHOUN
No. PE090304

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: BASEMENT FLOOR PLANS - DWV PIPING - NEW WORK	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102, AG Project No. 0123039
			Building Number: 47
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Drawing Number: PS101
		Issue Date: 03/12/2026 / Checked: JMC / Drawn: CAP	

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VA FORM 08 - 6231

DRAWING NOTES:

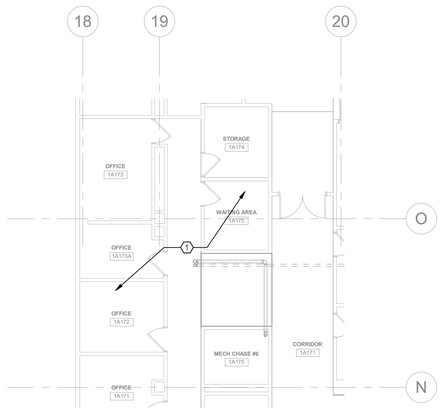
1. EXISTING CONDITIONS ARE BASED ON LIMITED SITE INVESTIGATION AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY THE COR IN WRITING OF ANY DEVIATIONS.

CODED NOTES:

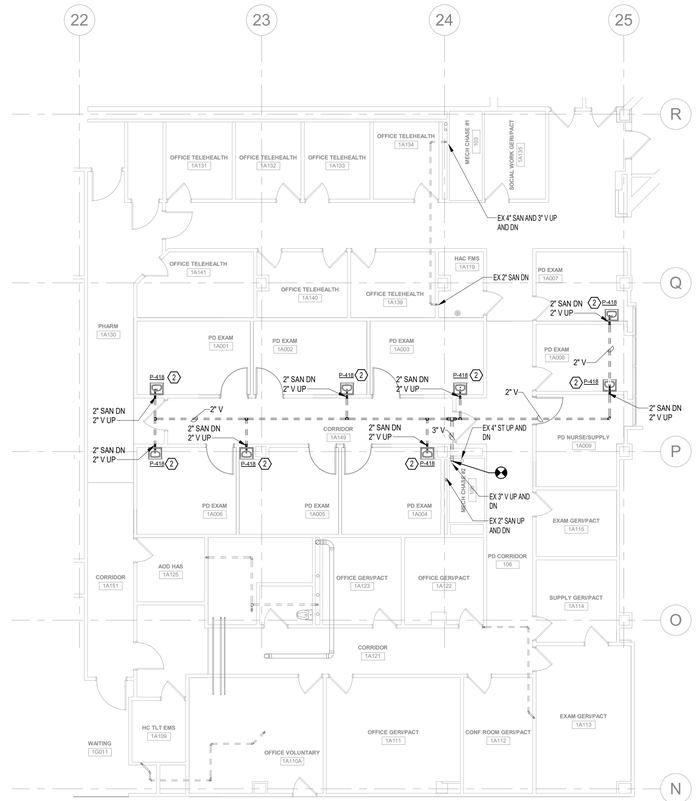
(1) NO NEW DWV PIPING WORK IN THIS AREA.

(2) ROUTE SANITARY PIPING DOWN THROUGH FLOOR TO BASEMENT. COORDINATE PENETRATION WITH EXISTING STRUCTURAL ELEMENTS. CONTRACTOR SHALL SCAN ALL LOCATIONS WHERE PENETRATIONS ARE SHOWN FOR EXISTING REBAR AND OTHER STRUCTURAL ITEMS THAT WOULD PREVENT A PENETRATION AND SHALL COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL REQUIREMENTS.

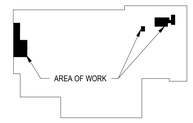
1 FIRST FLOOR PLAN - DWV PIPING - NEW WORK - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - DWV PIPING - NEW WORK - PODIATRY WAITING
1/8" = 1'-0"



3 FIRST FLOOR PLAN - DWV PIPING - NEW WORK - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JOSHUA CALHOUN No. PE090054

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR PLANS - DWV PIPING - NEW WORK	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102, AG Project No. 0123039
			Building Number: 47
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Drawing Number: PS102
		Issue Date: 03/12/2026 / Checked: JMC / Drawn: CAP	

VA FORM 08 - 6231

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DRAWING NOTES:

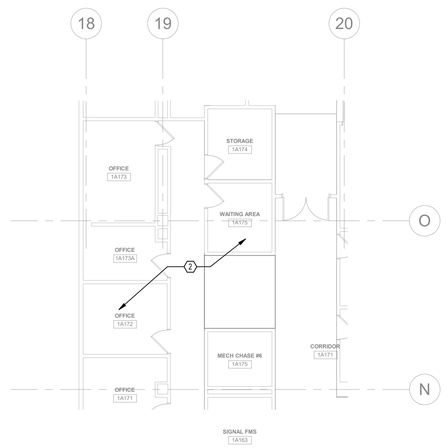
1. EXISTING CONDITIONS ARE BASED ON LIMITED SITE INVESTIGATION AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY THE COR IN WRITING OF ANY DEVIATIONS.

CODED NOTES:

(1) ROUTE NEW CW/HW PIPING ABOVE CEILING SPACE TO TIE INTO EXISTING MAINS. CONTRACTOR SHALL CONFIRM EXISTING LOCATION OF MAIN TIE-IN PRIOR TO ANY FABRICATION OF NEW PIPING. PROVIDE ISOLATION BALL VALVES AT MAIN TIE-IN LOCATION.

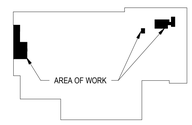
(2) NO NEW PLUMBING PRESSURE PIPING WORK WITHIN THIS AREA.

1 FIRST FLOOR PLAN - PRESSURE PIPING - NEW WORK - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - PRESSURE PIPING - NEW WORK - PODIATRY WAITING
1/8" = 1'-0"

3 FIRST FLOOR PLAN - PRESSURE PIPING - NEW WORK - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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STAMP	COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JOSHUA CALHOUN ENGINEER No. PE093054
Office of Construction and Facilities Management	VA U.S. Department of Veterans Affairs
Drawing Title	FIRST FLOOR PLANS - PRESSURE PIPING - NEW WORK
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	47
Approved:	
	FULLY SPRINKLERED
Location	ASHEVILLE VAMC
Issue Date	03/12/2026
Checked	JMC
Drawn	AJZ
Drawing Number	PP101

Revisions | Date

VA FORM 08 - 6231

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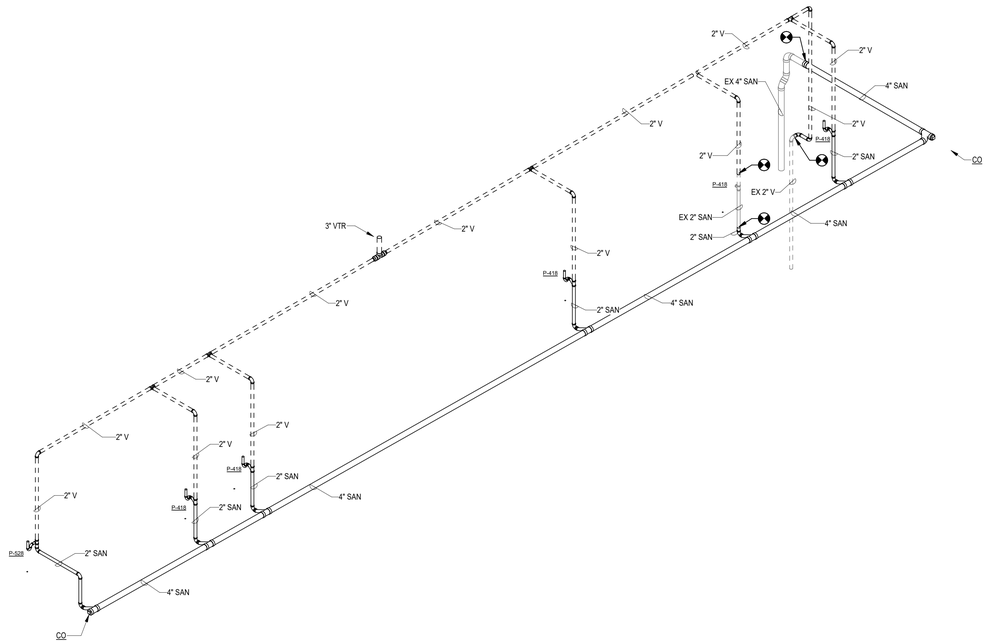
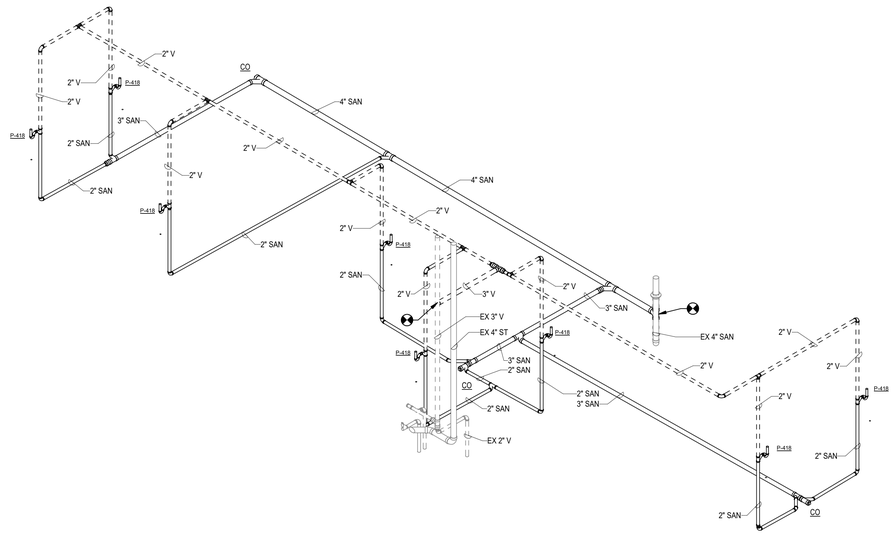
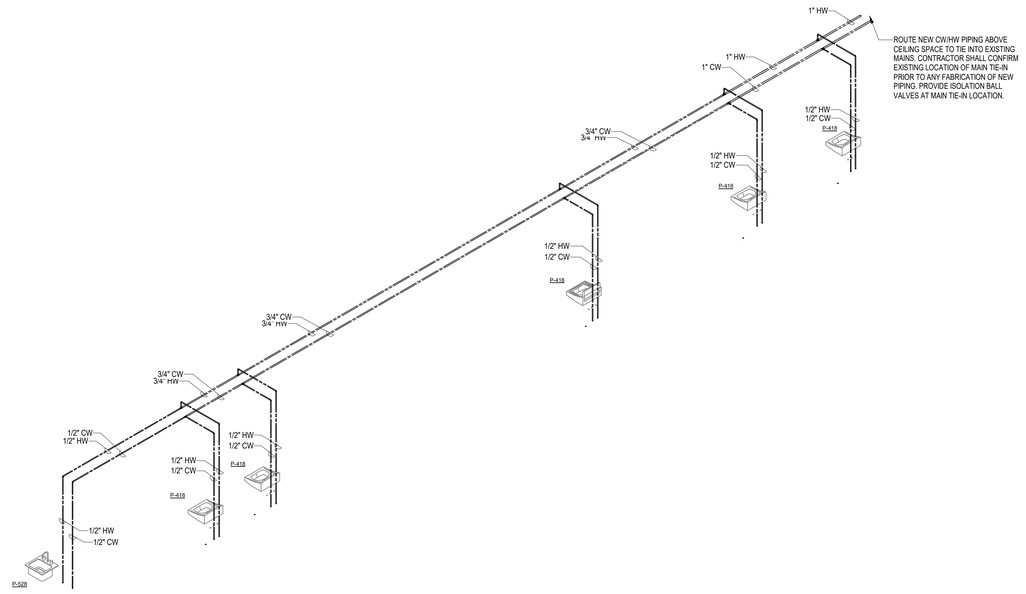


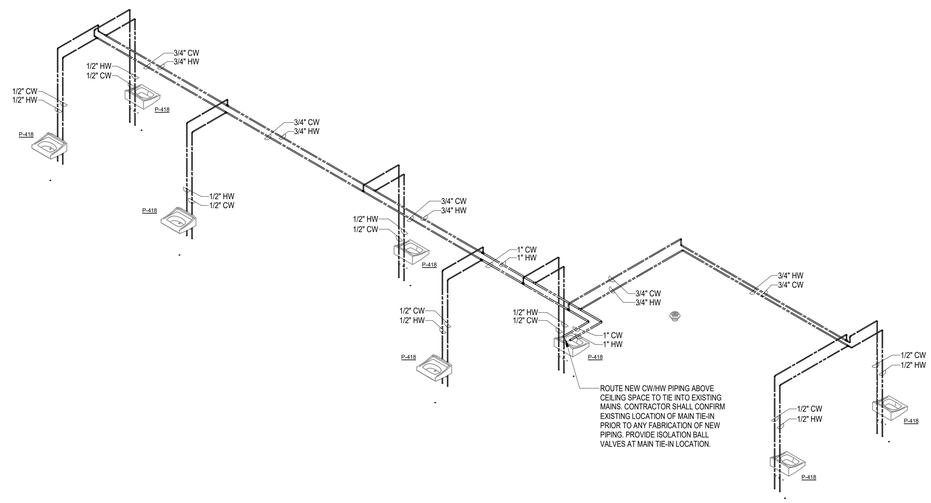
1 DWV ISOMETRIC - ENT AREA
N.T.S.



2 DWV ISOMETRIC - PODIATRY AREA
N.T.S.



3 PRESSURE ISOMETRIC - ENT AREA
N.T.S.



4 PRESSURE ISOMETRIC - PODIATRY AREA
N.T.S.

Revisions	Date

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
JOSHUA CALHOUN
No. PE090054

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: PLUMBING ISOMETRICS	Phase: FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS			Project Number: VA Project No. 637-22-102; AG Project No. 0123039
			Building Number
Location: ASHEVILLE VAMC			Drawing Number: P-601
Issue Date: 03/12/2026	Checked: JMC	Drawn: CAP	

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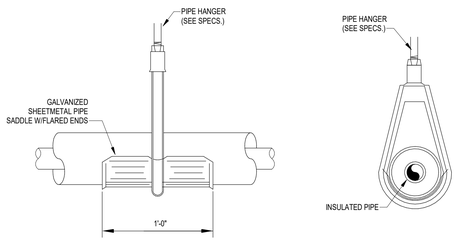
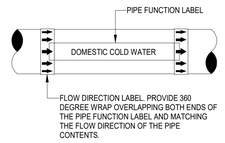
VA FORM 08 - 6231



1 INSULATED PIPE HANGER
N.T.S.



DETAIL NOTES:

A. PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.

B. PROVIDE AT LEAST ONE LABEL ON EACH PIPE FOR EVERY ROOM THE PIPE PASSES THROUGH.

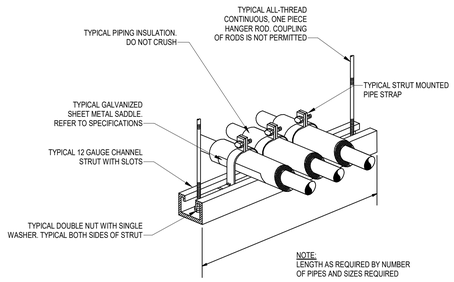
C. PROVIDE LABELS IN LARGE SPACES ON MAXIMUM 20' CENTERS FOR EVERY PIPE UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.

D. LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY WOULD NORMALLY BE SEEN, IE. ON THE BOTTOM HALF OF PIPES IN THE AIR AND ON THE TOP HALF OR SIDES OF PIPES MOUNTED LOW.

E. LABELS SHALL BE, COLOR CODED, PRE-PRINTED, SELF ADHESIVE VINYL.

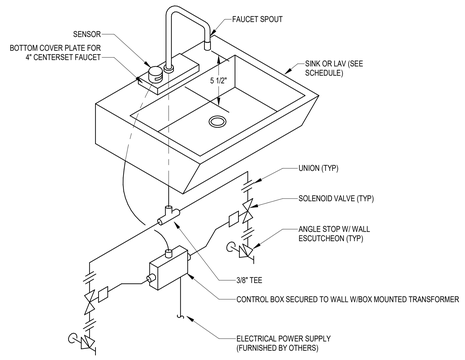
F. SEE SPECIFICATION FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

2 PIPING IDENTIFICATION LABEL DETAIL
N.T.S.



NOTE:
1. REFER TO SPECIFICATIONS AND FLOOR PLANS FOR FURTHER INFORMATION.
2. SPECIFIED HANGER ROD, STRUT, NUTS, WASHER, AND PIPE STRAPS SHALL BE OF GALVANIZED PLATED MATERIAL

3 TRAPEZE HANGER DETAIL
N.T.S.



NOTE:
MOUNT ALL ABOVE ITEMS AS CLOSE TO BOTTOM OF SINK AS POSSIBLE.

4 SENSOR FAUCET CONNECTION
N.T.S.

PLUMBING FIXTURE SCHEDULE

UNIT NO.	FIXTURE DESCRIPTION	MIXING VALVE NO.	PRIVATE/PUBLIC		CONNECTION SIZES						FIXTURE UNITS				FLUSH VALVE/FAUCET TYPE				BASIS OF DESIGN		
			PUBLIC	PRIVATE	S	V	CW	HW	TEMPERED/ TEPID WATER (IN)	FILTERED WATER (IN)	WATER	CW	HW	WASTE	MANUAL	HARD WIRED SENSOR	BATTERY SENSOR	FOOT PEDAL	FIXTURE	FLUSH VALVE/FAUCET	COMMENTS
P-418	LAVATORY (WALL MOUNT)	TMV-1	YES	-	1-1/2"	1-1/2"	1/2"	1/2"	-	-	2	1.5	1.5	1	-	YES	-	-	ZURN : Z5341	ZURN : Z6920-XL-CWB-HWI-N	-
P-528	KITCHEN SINK (SINGLE COMPARTMENT)	TMV-2	YES	-	1-1/2"	1-1/2"	3/4"	3/4"	-	-	2	1.5	1.5	3	YES	-	-	-	ELKAY : LRADQ2222265	ELKAY : LK6000	-

NOTES:

1. REFER TO SPECIFICATION SECTION 22 40 00 FOR MORE INFORMATION.
2. REFER TO THERMOSTATIC MIXING VALVE SCHEDULE FOR MIXING VALVE INFORMATION.

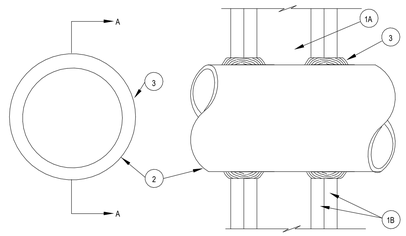
THERMOSTATIC MIXING VALVE SCHEDULE

TMV NO.	LOCATION	OUTLET TEMP. (°F)	INLET SIZE	OUTLET SIZE	MIN. FLOW (GPM)	BASIS OF DESIGN	COMMENTS
TMV-1	@ LAVATORY	105°F	1/2"	1/2"	0.2	WATTS : LFUSG-B M3	1, 2, 3
TMV-2	@ ALL OTHER PLUMBING FIXTURES	110°F	3/4"	3/4"	0.5	BRADLEY : S59-4016	1, 2, 3

NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE INLET PIPING WITH CHECK VALVES (IF NOT PROVIDED AS PART OF THE VALVE) AND SHUTOFF VALVES. PROVIDE OUTLET PIPING WITH SHUT-OFF VALVES.
3. REFER TO PLUMBING FIXTURE SCHEDULE FOR EXACT MIXING VALVE FOR EACH PLUMBING FIXTURE.

System No. W-L-1001
(Formerly System No. 147)
F Rating--1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings--0, 1, 2, 3, and 4 Hr (See Items 2 and 3)
L Rating at Ambient--less than 1 CFM/sq ft
L Rating At 400 F--less than 1 CFM/sq ft



SECTION A-A

1. WALL ASSEMBLY--THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS--WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. WALLBOARD, GYPSUM *--NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13-1/2 IN.
2. PIPE OR CONDUIT--NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 12 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

Max pipe or Conduit Diam In.	Annular Space In.	F Rating Hr.	T Rating Hr.
1	3 to 3/16	1 or 2	0+, 1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1-1/2	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

+When copper is used, T Rating is 0h.
Minnesota Mining & Mfg. Co --Types FB-2000, FB-2000+.
*Bearing the UL Classification Marking

5 WALL - DRYWALL - PIPE - 1/2/3/4 HR
N.T.S.

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DETAILS AND SCHEDULES
Approved:
Phase: FINAL BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Location: ASHEVILLE VAMC
Issue Date: 03/12/2026
Checked: JMC
Drawn: AJZ
Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Building Number
Drawing Number: P-801

VA FORM 08 - 6231

HVAC SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	CEILING RETURN
	CEILING EXHAUST
	CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	SUPPLY DIFFUSER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	RETURN / EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
CO2	CARBON DIOXIDE SENSOR
T	THERMOSTAT / TEMPERATURE SENSOR
H	HUMIDISTAT / HUMIDITY SENSOR
	DUCT SMOKE DETECTOR
H	HUMIDITY SENSOR (DUCT MOUNTED)
CO2	CARBON DIOXIDE SENSOR (DUCT MOUNTED)
M	MOTORIZED CONTROL DAMPER
F	AIRFLOW SENSOR/STATION
T	TEMPERATURE SENSOR
SP	STATIC PRESSURE SENSOR
BD	BACKDRAFT DAMPER
	CEILING MOUNTED ACCESS DOOR

SYMBOL	DESCRIPTION
SD	SMOKE DAMPER (WITH ACCESS PANEL)
FD	FIRE DAMPER (WITH ACCESS PANEL)
MOD	MOTOR OPERATED CONTROL DAMPER (MOD)
	MANUAL BALANCING DAMPER
VD	DOOR GRILLE
UC	UNDERCUT DOOR
	ACCESS DOORS, VERTICAL OR HORIZONTAL
	FLEXIBLE CONNECTION
24x12	NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN
UP DN	CHANGE OF ELEVATION
DOWN UP	DUCT ELBOW, SUPPLY OR OUTSIDE AIR
	DUCT ELBOW, EXHAUST AIR
	DUCT ELBOW, RETURN AIR
	FLEXIBLE DUCT

SYMBOL	DESCRIPTION
	TRANSITION, CONCENTRIC
	TRANSITION, ECCENTRIC
	TRANSITION, SQUARE TO ROUND
	SQUARE THROAT ELBOW W/ TURNING VANES
	RADIUS ELBOW
	RECTANGULAR / ROUND BRANCH TAKE-OFF OR ROUND / ROUND BRANCH TAKE-OFF
	SQUARE THROAT TEE W/ TURNING VANES
	RADIUS TEE
	RECTANGLE-TO-ROUND TAKE-OFF
	STANDARD BRANCH TAKE-OFF
	SPININ TAKE-OFF
EQUIPMENT	EQUIPMENT WITH MANUFACTURER'S CLEARANCE SHOWN IN DASHED LINES

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
A/E	ARCHITECT / ENGINEER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APPROX	APPROXIMATE
ASTM	AMERICAN STANDARDS TESTING MATERIALS
BAS	BUILDING AUTOMATION SYSTEM
BOP	BOTTOM OF PIPE
BHP	BRAKE HORSEPOWER
BFV	BUTTERFLY VALVE
BTU	BRITISH THERMAL UNIT
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE
CFM	CUBIC FEET PER MINUTE
CL	CENTER LINE
CO	CLEAN OUT
COR	CONTRACTING OFFICER'S REPRESENTATIVE
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
°F	DEGREES FAHRENHEIT
FAS	FIRE ALARM SYSTEM
FD	FLOOR DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FEET
FTH	FINNED TUBE HEATER
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HR	HOUR
HZ	HERTZ
IPLV	INTEGRATED PART-LOAD VALUE
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LWT	LEAVING WATER TEMPERATURE

SYMBOL	DESCRIPTION
MAX	MAXIMUM
MBH	THOUSAND BTUs PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MOD	MOTORIZED CONTROL DAMPER
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PRS	PRESSURE REDUCING STATION
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PVC	POLYVINYL CHLORIDE PIPE
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHP	ROOFTOP HEAT PUMP
RPM	REVOLUTIONS PER MINUTE
RS/L	REFRIGERANT SUCTION & LIQUID LINES
RTU	ROOFTOP AIR CONDITIONING UNIT
SA	SUPPLY AIR
SF	SQUARE FEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
TA	TRANSFER AIR
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V/PH	VOTS/PHASE
VA	U.S. DEPARTMENT OF VETERANS AFFAIRS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS
W/	WITH
WB	WET BULB

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED IN DETAILS, RISER DIAGRAMS, CONTROL DIAGRAMS, AND/OR FLOW DIAGRAMS WHETHER OR NOT INDICATED ON PLANS AND VICE VERSA. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
2. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH THE MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
3. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
4. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
5. INSTALL ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION DIRECTIONS. PROVIDE ACCESS DOORS TO ALLOW FOR COMPLETE INSPECTION AND MAINTENANCE OF ALL DEVICES.
6. PROVIDE 1.5R ELBOWS IN DUCTWORK AS INDICATED. IF 1.5R ELBOWS DO NOT FIT, PROVIDE 1.0R ELBOWS. IF 1.0R ELBOWS DO NOT FIT, PROVIDE 90-DEGREE RECTANGULAR DUCT ELBOWS WITH TURNING VANES.
7. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
8. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
9. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
10. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
11. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
12. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
13. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
14. TRAP/PROVIDE CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
15. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING, OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
16. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
17. COORDINATE SIZE REQUIREMENTS OF ALL CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR-MOUNTED EQUIPMENT. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS AND SPECIFICATIONS.
18. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS, AND OTHER AIR DISTRIBUTION DEVICES.
19. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO FANS, AIR HANDLING UNITS, AND FAN COIL UNITS.
20. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
21. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS.
22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 25'-0" CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS. LOWEST POINT OF EACH OUTSIDE AIR INTAKE ON ROOF SHALL BE A MINIMUM OF 24" ABOVE ROOF.
24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
25. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN WITH AN AIR GAP.
26. MECHANICAL PRESS-CONNECT FITTINGS FOR COPPER PIPE AND TUBE ARE PROHIBITED. SEE PLUMBING DESIGN MANUAL FOR ADDITIONAL INFORMATION.

PIPING LEGEND

SYMBOL	DESCRIPTION
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
CD	CONDENSATE
R	REFRIGERANT LIQUID AND SUCTION LINES
	FLOW DIRECTION
	FLANGES
	UNION
	PIPE ANCHORS
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	AUTOMATIC AIR VENT
	MANUAL VENT
FM	FLOW METER
	INLINE PUMP
	CAP
	HOSE CONNECTION
	ANGLE GLOBE VALVE
	RELIEF VALVE
	THERMOMETER
	PRESSURE GAUGE WITH SHUTOFF
	TEST PLUG (PRESSURE/TEMPERATURE)
	FLOW SWITCH
	PRESSURE SWITCH
EQUIP.	P-TRAP
	ELBOW, 90°
	ELBOW, 45°
R R	45° PIPE RISE (R)/DROP (D)

SYMBOL	DESCRIPTION
	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	THREE-WAY VALVE
	CHECK VALVE
	STRAINER
	CIRCUIT SETTER VALVE
	PRESSURE REGULATING VALVE
M	MOTORIZED ACTUATOR
	SOLENOID VALVE (2-POSTION W/ ACTUATOR)
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	TEE, OUTLET DOWN
	TEE, OUTLET UP
	TEE, SIDE CONNECTION
	FLEX CONNECTION (DOUBLE SPHERE FOR PIPES 6" AND LARGER; SINGLE SPHERE FOR PIPES 4" AND SMALLER
	PNEUMATIC ACTUATOR

CONTROLS LEGEND

SYMBOL	DESCRIPTION
A	ALARM
	TEMPERATURE SENSOR
	RELATIVE HUMIDITY SENSOR
	PUSH-BUTTON OVERRIDE SWITCH
	PRESSURE SENSOR
	HARD-WIRED INTERLOCK
	DRY CONTACT
CS	CURRENT SENSING STATUS
	STARTER
S	DUCT SMOKE DETECTOR
	IMMERSION TEMPERATURE TRANSMITTER W/ THERMOWELL
	EMERGENCY PUSHBUTTON
CO2	SPACE CARBON DIOXIDE SENSOR
R	REFRIGERANT SENSOR
H	SPACE HUMIDISTAT / HUMIDITY SENSOR
T	SPACE THERMOSTAT SENSOR
P	SPACE PRESSURE SENSOR
	DUCT MOUNTED TEMPERATURE SENSOR
F	AIR FLOW SENSOR
	INDICATES AVERAGING ELEMENT SENSOR
	INDICATES PROBE SENSOR
	MAGNEHELIC DIFFERENTIAL PRESSURE GAUGE
24VAC	ACTUATOR W / 24VAC OR 120VAC AS INDICATED
24VAC	TWO POSITION VALVE W / 24VAC OR 120VAC AS INDICATED

SYMBOL	DESCRIPTION
DPIT	DIFF. PRESSURE INDICATING TRANSMITTER
VFD	VARIABLE FREQUENCY DRIVE
PT	PARTICULATE TRANSMITTER
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
AFSX	AIRFLOW SENSOR
CO2X	CARBON DIOXIDE SENSOR
CTX	CONDUCTIVITY TRANSMITTER
DX	DAMPER
DPSX	DIFFERENTIAL PRESSURE SENSOR
ECCX	ENGINEERING CONTROL CENTER
FTX	FLOW TRANSMITTER
HX	HUMIDITY TRANSMITTER
HOA	HAND SWITCH (HAND-OFF-AUTO SWITCH)
ITX	CURRENT TRANSMITTER
LCX	LEVEL CONTROLLER
LTX	LEVEL TRANSMITTER
PTX	PRESSURE TRANSMITTER
PDTX	PRESSURE DIFFERENTIAL TRANSMITTER
SPSX	STATIC PRESSURE SWITCH
TTX	TEMPERATURE TRANSMITTER
TSX	TEMPERATURE SWITCH (FREEZESTAT)
VCX	VALVE POSITION CONTROLLER
WFMX	WATER FLOW METER
WFSX	WATER FLOW SWITCH DIGITAL

DRAWING SYMBOLS

1 / H1	VIEW NUMBER / SHEET NUMBER
A / H1	SECTION LETTER / DRAWING NUMBER WHERE SHOWN
1	REVISION REFERENCE
1	SHEET NOTE CALLOUT
	CONNECT TO EXISTING
	DEMOLISH TO POINT INDICATED
	BUILDING NO. WHERE EQUIPMENT IS LOCATED.
	EQUIPMENT ABBREVIATION. AN "EX" SHOWN IN FRONT OF EQUIPMENT TAGS NOTIFIES THAT EQUIPMENT IS EXISTING.
	LEVEL EQUIPMENT LOCATED ON / LEVEL IT SERVES
2-AHU-3-1	AHU NUMBER TYPICAL UNIT NUMBER; AHU NO. 1, LOCATED ON LEVEL 3, LOCATED IN BLDG. 2
	BUILDING NO. WHERE EQUIPMENT IS LOCATED
	ITEM (TERMINAL UNIT SHOWN)
	SERVED BY AIR HANDLER UNIT NUMBER
26-TU-1-5	ITEM NUMBER TYPICAL UNIT NUMBER; TU NO. 5, SERVED BY AHU NO. 1, LOCATED IN BLDG. 26
	DEVICE MARK AND NUMBER (S = SUPPLY, R = RETURN, E = EXHAUST)
S1 200	DEVICE FLOW RATE (CFM)
	TYPICAL AIR DISTRIBUTION DEVICE TAG
12X10 SA	INTERIOR DUCT DIMENSIONS IN INCHES. FIRST DIMENSION IS SIDE SHOWN. SYSTEM TYPE (SA = SUPPLY AIR , RA = RETURN AIR, OA = OUTSIDE AIR, EA = EXHAUST AIR, SS EA = STAINLESSSTEEL EXHAUST)
	TYPICAL DUCTWORK TAG

BASIC MATERIALS

	EXISTING TO BE REMOVED (HEAVY, DASHED LINE)
	EXISTING TO REMAIN (THIN, HALFTONED, SOLID LINE)
	NEW (HEAVY, SOLID LINE)

APPLICABLE CODES

1. VA HVAC DESIGN MANUAL (HVACDM) REV. MARCH 1, 2024
2. VA SEISMIC DESIGN REQUIREMENTS (SDR) 2023 EDITION
3. VA SUSTAINABLE DESIGN MANUAL (SDM) REV. AUGUST 18, 2017
4. NATIONAL INSTITUTES OF HEALTH (NIH) DESIGN REQUIREMENTS MANUAL 2020 EDITION
5. INTERNATIONAL BUILDING CODE: CONFORM IN STRICT COMPLIANCE TO THE INTERNATIONAL BUILDING CODE AND THE AMENDMENTS WHICH ARE ENFORCED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
   A. INTERNATIONAL BUILDING CODE (IBC) 2024 EDITION
   B. INTERNATIONAL MECHANICAL CODE (IMC) 2024 EDITION
   C. INTERNATIONAL PLUMBING CODE (IPC) 2024 EDITION
   D. INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2024 EDITION
6. AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS (ASHRAE):
   A. VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY (ASHRAE 62.1) 2016 EDITION
   B. ENERGY STANDARD FOR BUILDINGS (ASHRAE 90.1) 2019 EDITION
   C. VENTILATION OF HEALTH CARE FACILITIES (ASHRAE 170) 2013 EDITION
7. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):
   A. COMPRESSED GASES AND CRYOGENIC FLUIDS CODE, NFPA 55 2020 EDITION
   B. NATIONAL ELECTRICAL CODE (NEC) 2023 EDITION
   C. NATIONAL FIRE ALARM CODE (NFPA 72) 2022 EDITION
   D. STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS (NFPA 90A) 2021 EDITION
   E. HEALTH CARE FACILITIES CODE (NFPA 99) 2021 EDITION
   F. LIFE SAFETY CODE (NFPA 101) 2021 EDITION
8. APPLICABLE PUBLICATIONS INCLUDING BUT NOT LIMITED TO:
   A. ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARD (ABAAS)
   B. AMERICANS WITH DISABILITIES ACT (ADA)
   C. AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE (AHRI)
   D. AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA)
   E. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
   F. ASSOCIATION FOR RUBBER PRODUCTS MANUFACTURERS (ARPM)
   G. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
   H. MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY, INC. (MSS)
   I. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
   J. SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)
9. APPLICABLE STANDARDS, REGULATIONS, AND PRACTICES OF THE OWNER

SHEET LIST

SHEET NUMBER	SHEET NAME
M-001	MECHANICAL NOTES, LEGENDS, & SYMBOLS
MD101	FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - ENT
MD102	FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - PODIATRY
MH101	FLOOR PLAN - MECHANICAL - NEW WORK
MP101	FLOOR PLAN - MECHANICAL PIPING - NEW WORK
M-501	MECHANICAL DETAILS
M-701	MECHANICAL CONTROLS
M-801	MECHANICAL SCHEDULES

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT PERTAIN TO THIS PROJECT

Revisions | Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOSHUA CALHOUN — No. PE090304

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL NOTES, LEGENDS, & SYMBOLS
Approved:
Phase: FINAL BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Location: ASHEVILLE VAMC
Issue Date: 03/12/2026
Checked: JMC
Drawn: CAP
Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Building Number:
Drawing Number: M-001

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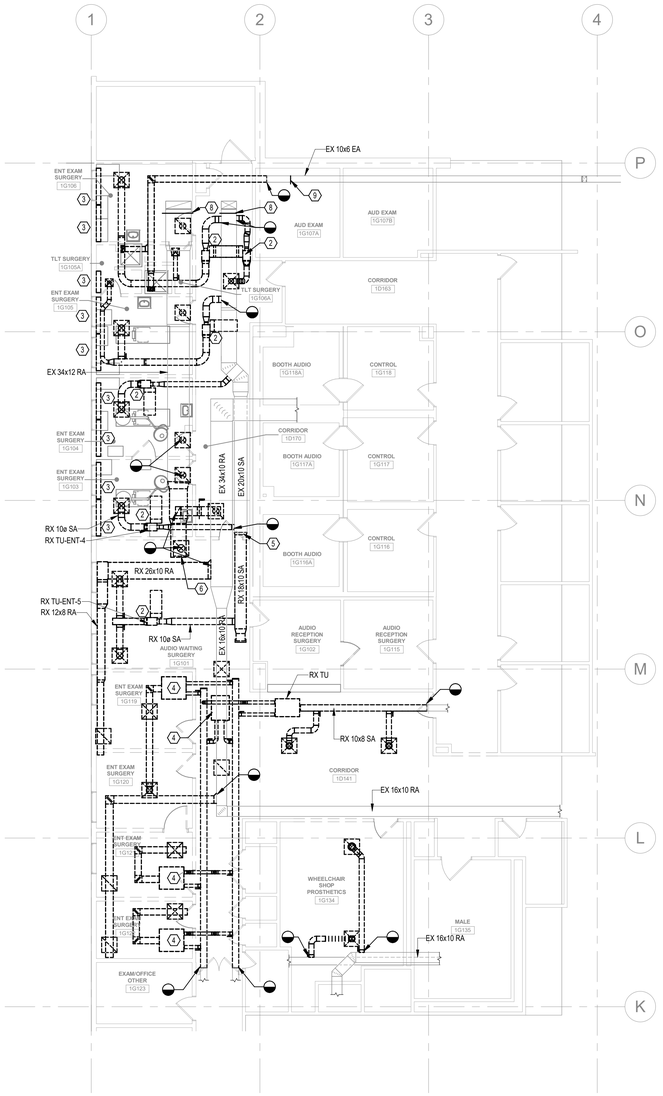
DRAWING NOTES:

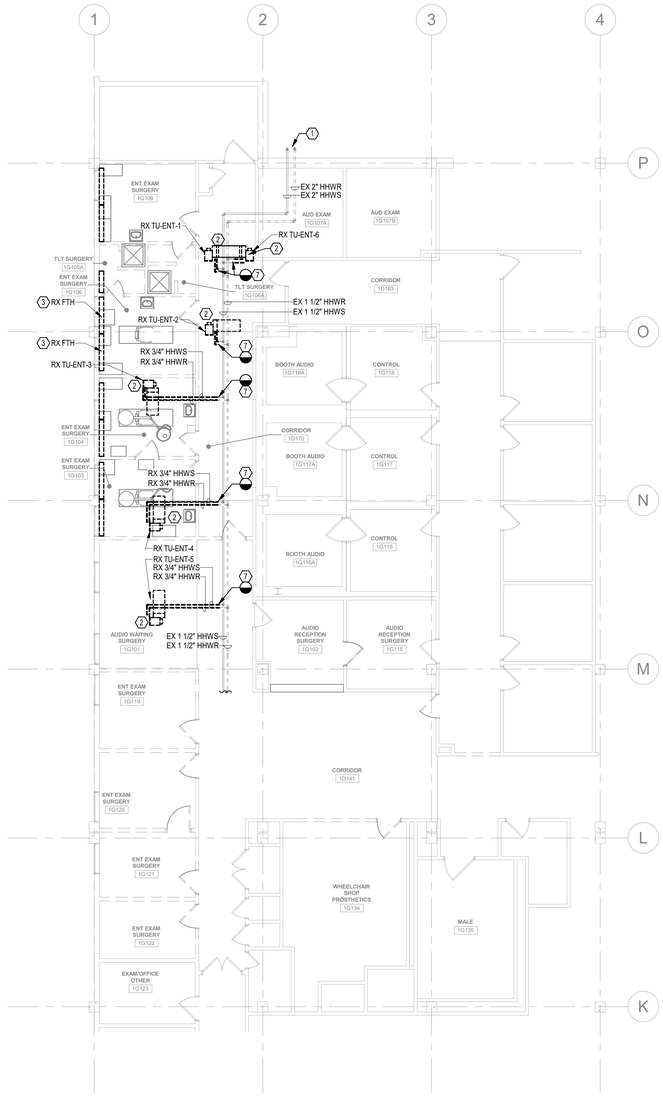
1. EXISTING HVAC SYSTEMS DRAWN ON PLAN ARE BASED ON LIMITED EXISTING DOCUMENTATION AND FIELD VERIFICATION. THE CONTRACTOR SHALL CONFIRM SIZE OF ALL EXISTING DUCTWORK AND PIPING LOCATED WITHIN AND ADJACENT TO THE PROJECT SCOPE BOUNDARY PRIOR TO FABRICATION ANY NEW DUCTWORK OR PIPING SHOWN ON PLAN. CONTRACTOR SHALL MAKE COR AWARE OF ANY DEVIATIONS OF THE EXISTING DUCTWORK OR PIPING AS SHOWN ON PLAN.
2. EXISTING ENT AREA CONDITIONS ARE BASED UPON VA PROJECT 637-19-102 INFORMATION. VA PROJECT 637-19-102 PROJECT WAS IN CONSTRUCTION AT THE TIME OF DESIGN AND CONDITIONS SHOWN MAY NOT MATCH ACTUAL DUCTWORK/PIPING LAYOUT. CONTRACTOR SHALL COORDINATE WITH THE VA COR FOR THE AS-BUILT CONDITIONS OF PROJECT 637-19-102 AND SHALL CONFIRM ACTUAL CONDITIONS PRIOR TO THE START OF DEMOLITION WORK.
3. UNLESS NOTED OTHERWISE, REMOVE ALL BRANCH RETURN DUCTWORK SERVED BY AHU-ENT AS INDICATED FROM THE RETURN DUCT MAIN TO THE ASSOCIATED GRILLE. REMOVE EXISTING GRILLE COMPLETE.
4. UNLESS NOTED OTHERWISE, REMOVE ALL SUPPLY DUCTWORK AND ASSOCIATED SUPPLY DIFFUSERS DOWNSTREAM OF TU BOXES INDICATED TO BE REMOVED BY SHEET NOTE 2 BELOW.
5. PATCH AND SEAL EXISTING DUCT TO REMAIN AIR TIGHT.

CODED NOTES:

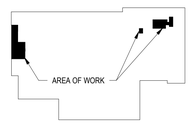
1. EX 2" HWS/R DOWN TO BASEMENT BOILER ROOM.
2. CAREFULLY REMOVE EXISTING ATU BOX AND STORE FOR USE IN NEW WORK. REMOVE ASSOCIATED HWS/R RUNOUTS TO ATU BACK TO HWS/R MAIN AND CAP AT MAIN. REMOVE ASSOCIATED DUCTWORK UPSTREAM OF THE TU BOX AND CAP AT MAIN SUPPLY DUCT RUN.
3. REMOVE EXISTING FINNED TUBE RADIANT HEATERS COMPLETE. REMOVE ALL ASSOCIATED PIPING AND APPURTENANCES.
4. REMOVE EXISTING DUAL DUCT TERMINAL BOX AND ALL ASSOCIATED DUCTWORK BACK TO DUCT MAINS. REMOVE DOWNSTREAM DUCTWORK COMPLETE.
5. REMOVE EXISTING SUPPLY DUCTWORK MAIN BACK TO POINT INDICATED AND PREPARE FOR CONNECTION IN NEW WORK.
6. REMOVE CAP ON EXISTING RETURN DUCTWORK END AND PREPARE FOR CONNECTION IN NEW WORK.
7. REMOVE HHWS/R PIPING TO VALVE AND CAP. VALVE LOCATION UNKNOWN AS PROJECT 637-19-102 WAS STILL IN CONSTRUCTION AT THE TIME OF DESIGN. CONTRACTOR SHALL CONFIRM ACTUAL LOCATION OF VALVE AND SHALL REFLECT INFORMATION IN AS-BUILT DRAWINGS.
8. CONDUCT PRE-DEMOLITION DUCT TRAVERSE AT POINT INDICATED. SUBMIT TAB REPORT TO VA COR AND ENGINEER OF RECORD.
9. CONDUCT PRE-DEMOLITION DUCT TRAVERSE AT POINT INDICATED AND AT ASSOCIATED EX EF-29 ON ROOF ABOVE. SUBMIT TAB REPORT TO VA COR AND ENGINEER OF RECORD.



1 FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - MECHANICAL PIPING - DEMOLITION - ENT
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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Drawing Title	Phase	Project Title	Project Number
FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - ENT	FINAL BID DOCUMENTS	RENOVATE SPACE FOR PATIENT IMPROVEMENTS	VA Project No. 637-22-102 AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number: 47
		Issue Date: 03/12/2026 · Checked: JMC · Drawn: CAP	Drawing Number: MD101

Revisions | Date

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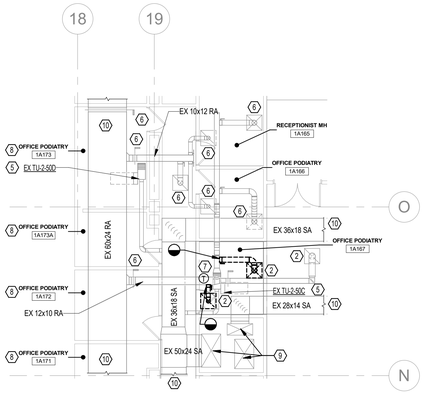
DRAWING NOTES:

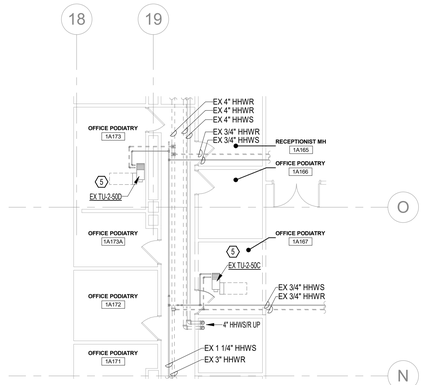
1. EXISTING HVAC SYSTEMS DRAWN ON PLAN ARE BASED ON LIMITED EXISTING DOCUMENTATION AND FIELD VERIFICATION. THE CONTRACTOR SHALL CONFIRM SIZE OF ALL EXISTING DUCTWORK AND PIPING LOCATED WITHIN AND ADJACENT TO THE PROJECT SCOPE BOUNDARY PRIOR TO FABRICATION ANY NEW DUCTWORK OR PIPING SHOWN ON PLAN. CONTRACTOR SHALL MAKE COR AWARE OF ANY DEVIATIONS OF THE EXISTING DUCTWORK OR PIPING AS SHOWN ON PLAN.
2. PATCH AND SEAL EXISTING DUCT TO REMAIN AIR TIGHT.

CODED NOTES:

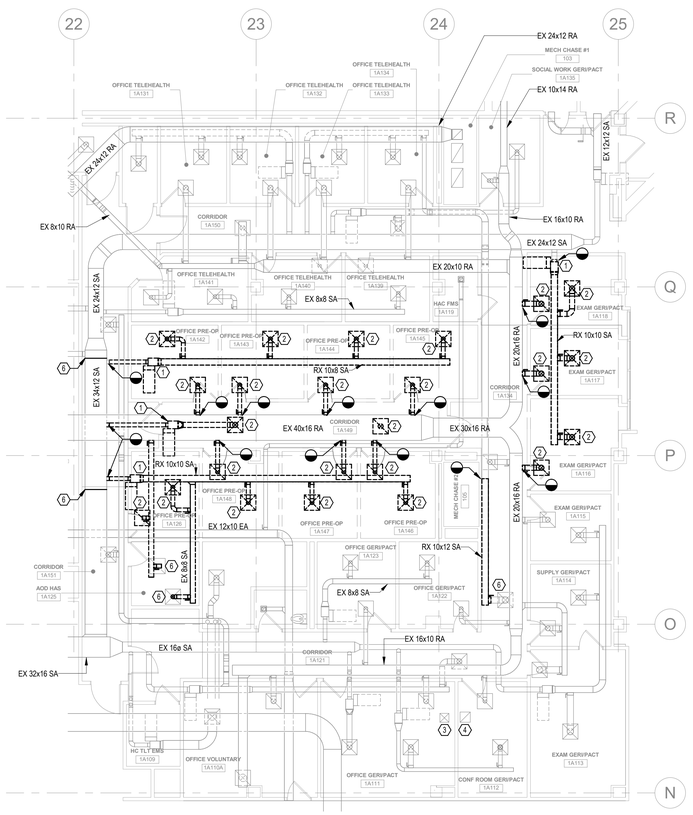
1. REMOVE EXISTING ATU BOX AND ASSOCIATED HHWS/R RUNOUTS TO ATU BACK TO HWS/R MAIN AND CAP AT MAIN. REMOVE ASSOCIATED DUCTWORK UPSTREAM OF THE TU BOX AND CAP AT MAIN SUPPLY DUCT RUN.
2. REMOVE EXISTING DIFFUSER/GRILLE AND ALL ASSOCIATED DUCTWORK AS INDICATED BACK TO MAIN OR ATU BOX INDICATED TO BE REMOVED.
3. EX 14"X14" SUPPLY DUCT DOWN FROM 2ND FLOOR AND ROOF, SERVED BY AHU-POD. UNCAP DUCTWORK AND PREPARE FOR CONNECTION IN NEW WORK. PROVIDE PRE-DEMOLITION TAB OF EXISTING AHU-POD TO DETERMINE TOTAL AIR FLOW, FAN SPEED, WATER FLOW, AND OTHER RELATED INFORMATION.
4. EX 16"X16" RETURN DUCT DOWN FROM 2ND FLOOR AND ROOF, SERVED BY AHU-POD. UNCAP DUCTWORK AND PREPARE FOR CONNECTION IN NEW WORK. PROVIDE PRE-DEMOLITION TAB OF EXISTING AHU-POD TO DETERMINE TOTAL AIR FLOW, FAN SPEED, WATER FLOW, AND OTHER RELATED INFORMATION.
5. EXISTING ATU BOX AND ASSOCIATED HHWS/R RUNOUTS TO REMAIN.
6. PROVIDE PRE-DEMOLITION TEST AND BALANCE OF EXISTING DUCTWORK SYSTEMS AT INDICATED POINTS. PROVIDE TRAVERSE MEASUREMENT OF DUCTWORK. PROVIDE HOOD MEASUREMENT OF EXISTING DIFFUSERS/GRILLES.
7. EXISTING THERMOSTAT TO BE CAREFULLY REMOVED FOR RELOCATION IN NEW WORK. REMOVE EXISTING CONTROL WIRING AND PREPARE FOR NEW WORK.
8. EXISTING ROOM INFORMATION NOT AVAILABLE. PROVIDE PRE-DEMOLITION TEST AND BALANCE OF ALL EXISTING DIFFUSERS/GRILLES WITHIN THE INDICATED ROOMS AND RECORD APPLICABLE EQUIPMENT SERVING DIFFUSER/GRILLE.
9. EXISTING SUPPLY DUCT RISERS TO REMAIN.
10. EXISTING DUCTWORK TO REMAIN.
11. CAP AND VALVE EXISTING PIPING TO REMAIN.



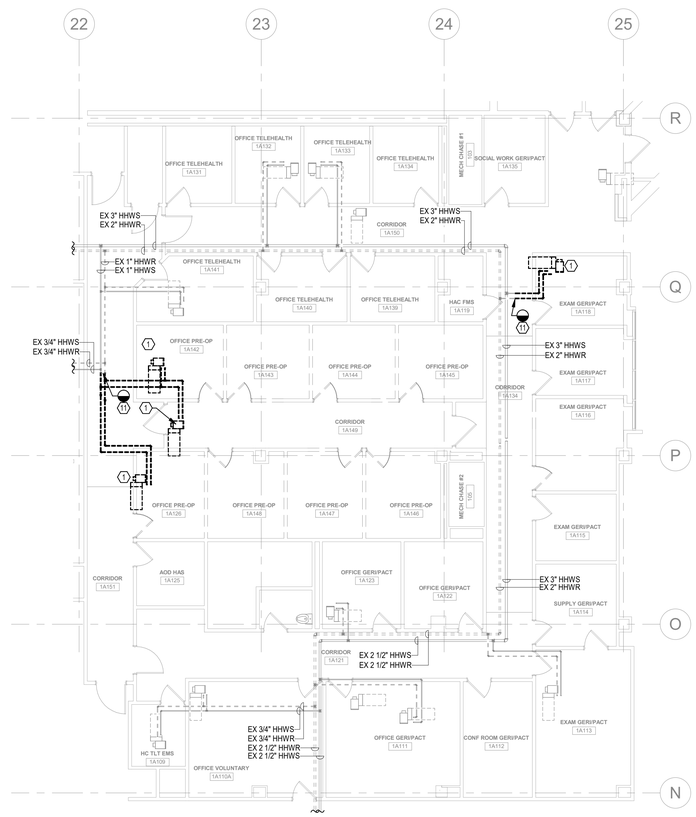
1 FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - PODIATRY WAITING
1/8" = 1'-0"



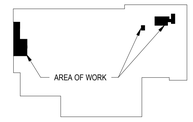
2 FIRST FLOOR PLAN - MECHANICAL PIPING- DEMOLITION - PODIATRY WAITING
1/8" = 1'-0"



3 FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - PODIATRY
1/8" = 1'-0"



4 FIRST FLOOR PLAN - MECHANICAL PIPING- DEMOLITION - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

Revisions	Date	

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR PLAN - MECHANICAL - DEMOLITION - PODIATRY	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102, AG Project No. 0123039
			Building Number: 47
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Drawing Number: MD102
		Issue Date: 03/12/2026 / Checked: JMC / Drawn: CAP	

VA FORM 08 - 6231

Autodesk Docs://0123039 - VAMC Asheville - Patient Improvements/0123039_VA Asheville - Patient Improve_R23_MEPFAFPT.rvt
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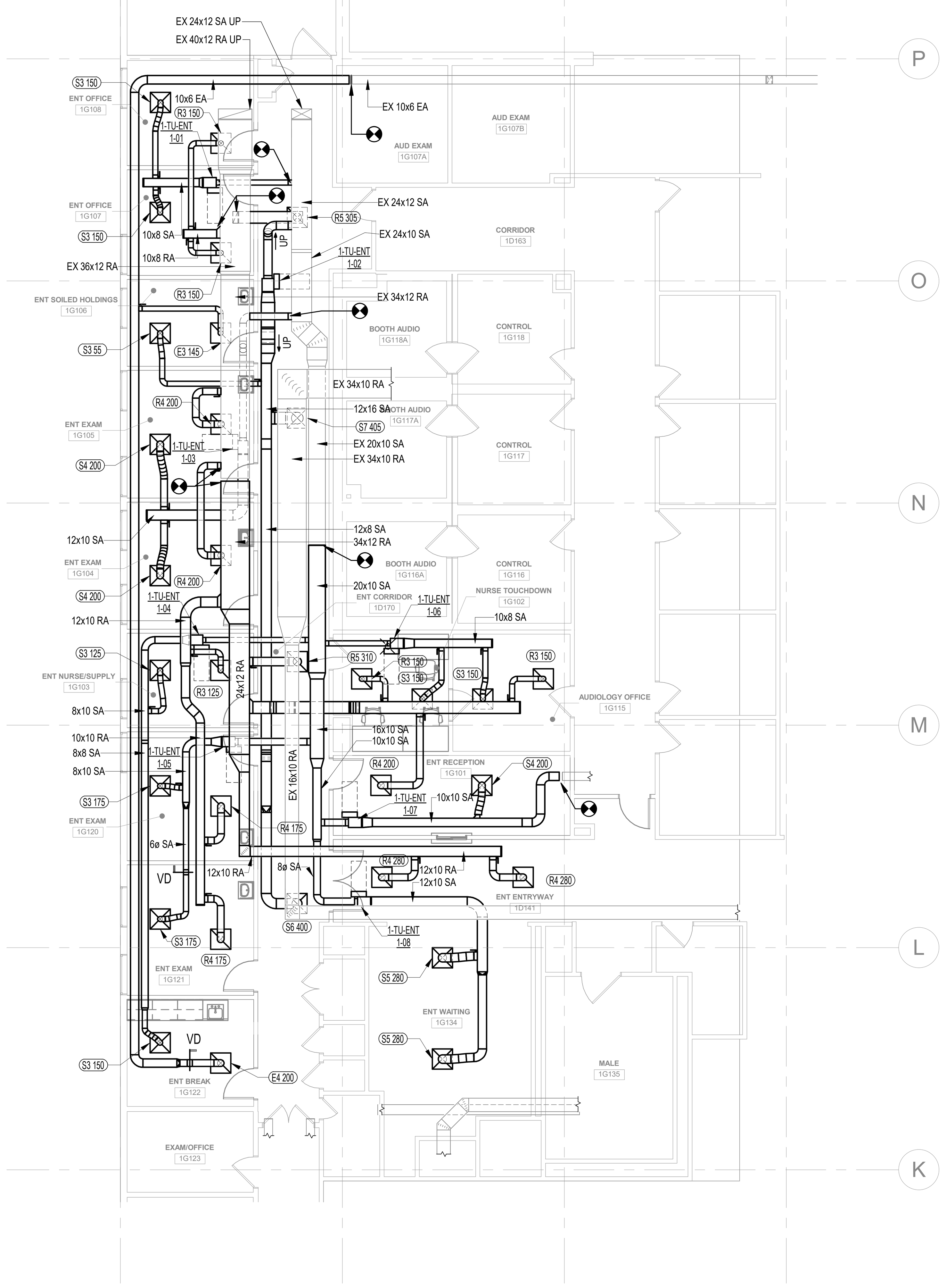
DRAWING NOTES:

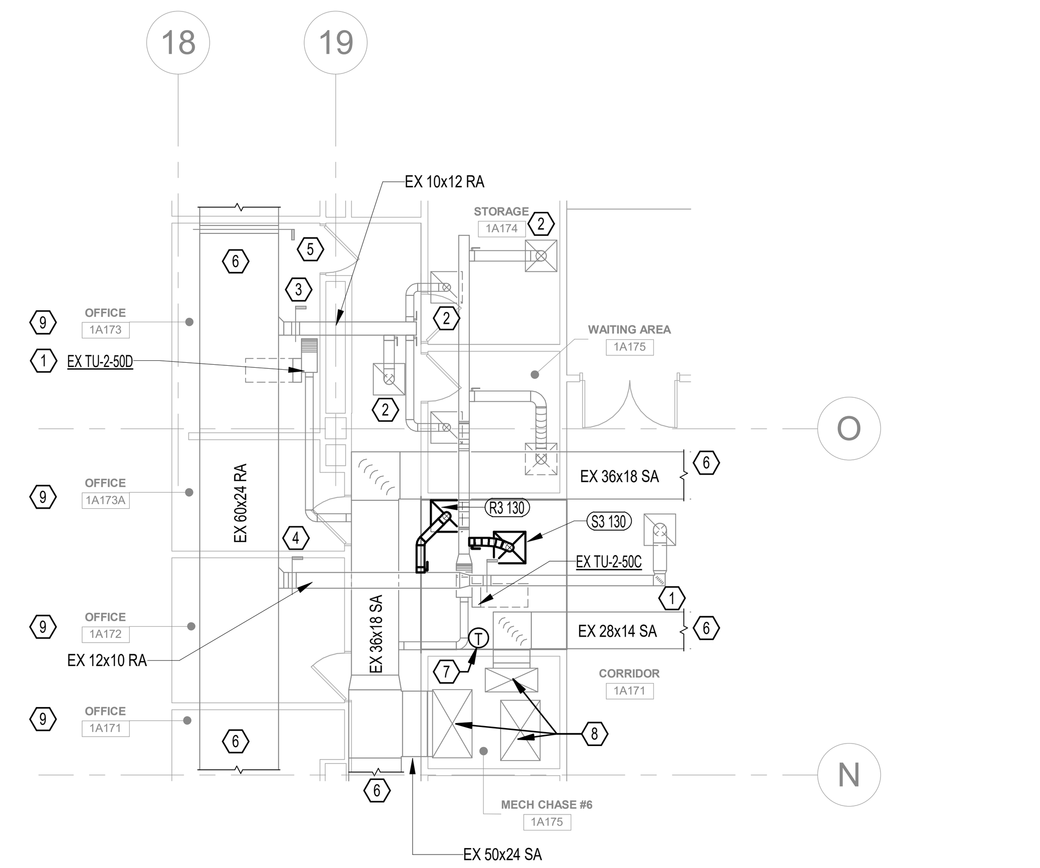
1. EXISTING HVAC SYSTEMS DRAWN ON PLAN ARE BASED ON LIMITED EXISTING DOCUMENTATION AND FIELD VERIFICATION. THE CONTRACTOR SHALL CONFIRM SIZE OF ALL EXISTING DUCTWORK AND PIPING LOCATED WITHIN AND ADJACENT TO THE PROJECT SCOPE BOUNDARY PRIOR TO FABRICATION ANY NEW DUCTWORK OR PIPING SHOWN ON PLAN. CONTRACTOR SHALL MAKE COR AWARE OF ANY DEVIATIONS OF THE EXISTING DUCTWORK OR PIPING AS SHOWN ON PLAN.
2. EXISTING ENT AREA CONDITIONS ARE BASED UPON VA PROJECT 637-19-102 INFORMATION. VA PROJECT 637-19-102 PROJECT WAS IN CONSTRUCTION AT THE TIME OF DESIGN AND CONDITIONS SHOWN MAY NOT MATCH ACTUAL DUCTWORK/PIPING LAYOUT. CONTRACTOR SHALL COORDINATE WITH THE VA COR FOR THE AS-BUILT CONDITIONS OF PROJECT 637-19-102 AND SHALL CONFIRM ACTUAL CONDITIONS PRIOR TO THE START OF DEMOLITION WORK.

CODED NOTES:

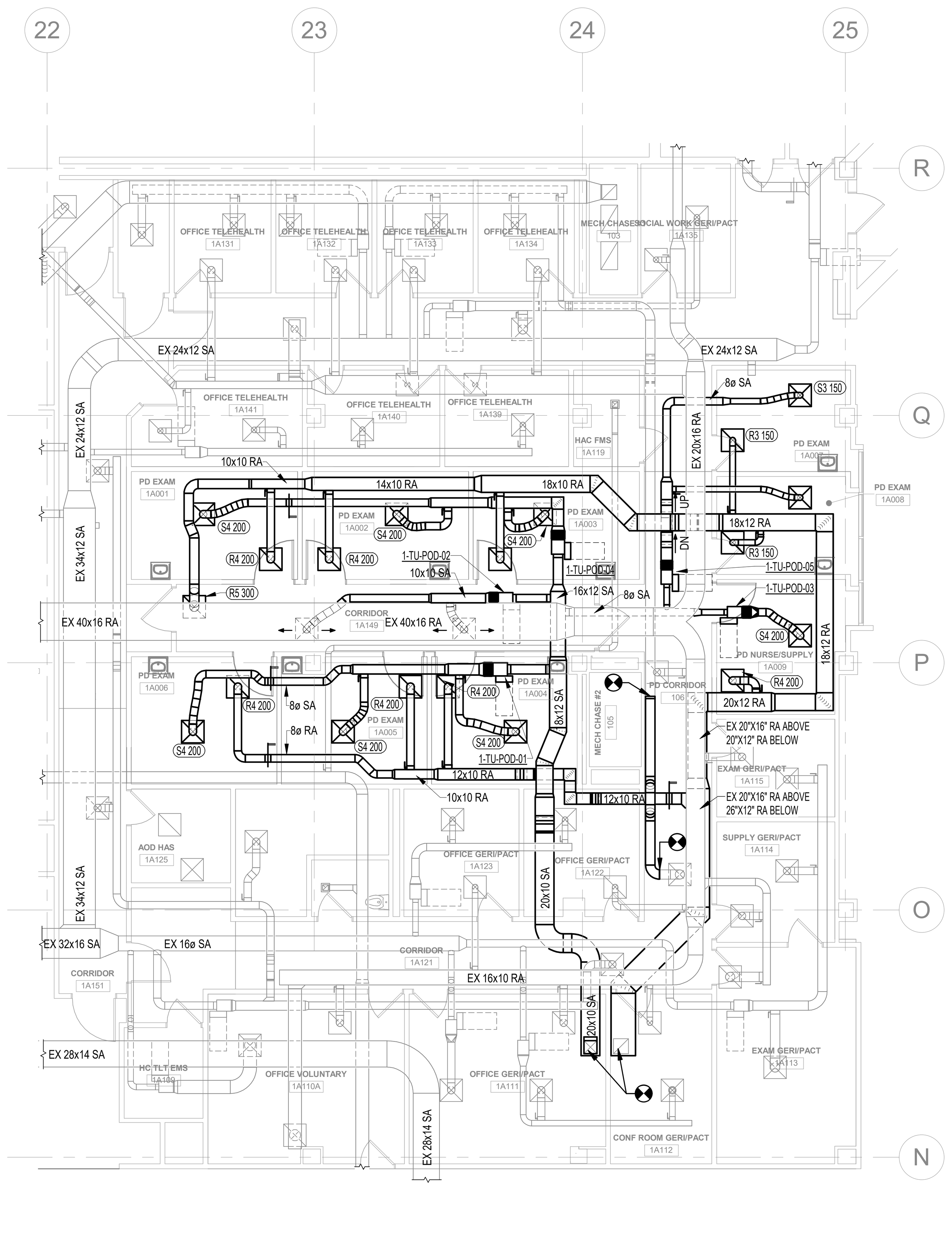
1. EXISTING ATU BOX AND ASSOCIATED HHWS/R RUNOUTS TO REMAIN.
2. EXISTING DIFFUSERS/GRILLES TO BE REBALANCED TO AIRFLOWS AS MEASURED DURING PRE-DEMOLITION TEST AND BALANCE.
3. ENSURE AIRFLOW AT INDICATED POINT IS BALANCED TO SUM OF REMAINING RETURN GRILLES ON DUCTWORK BRANCH. VERIFY AIRFLOW UTILIZING TRANSVERSE MEASUREMENT.
4. ENSURE AIRFLOW AT INDICATED POINT IS BALANCED TO NEW AIRFLOW WITH INDICATED AIRFLOW AT NEW RETURN GRILLE AND ALL OTHER EXISTING RETURN GRILLES ON DUCTWORK BRANCH. VERIFY AIRFLOW UTILIZING TRANSVERSE MEASUREMENT.
5. ENSURE AIRFLOW AT INDICATED POINT IS RE-BALANCED TO AIRFLOW AS MEASURED DURING PRE-DEMOLITION TEST AND BALANCE.
6. EXISTING DUCTWORK TO REMAIN.
7. RELOCATE EXISTING THERMOSTAT SERVING TU-2-50C TO POINT INDICATED. COORDINATE FINAL LOCATION WITH FURNITURE.
8. EXISTING SUPPLY DUCT RISERS TO REMAIN.
9. EXISTING ROOM INFORMATION NOT AVAILABLE. ENSURE AIRFLOW IS RE-BALANCED TO ALL ASSOCIATED DIFFUSERS/GRILLES AS MEASURED DURING PRE-DEMOLITION TEST AND BALANCE.



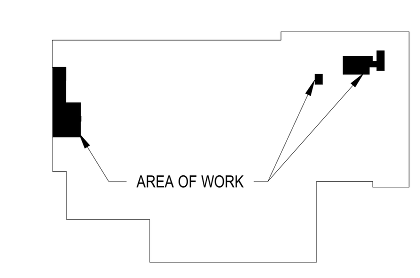
1 FIRST FLOOR PLAN - MECHANICAL - NEW WORK - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - MECHANICAL - NEW WORK - PODIATRY WAITING
1/8" = 1'-0"



3 FIRST FLOOR PLAN - MECHANICAL - NEW WORK - PODIATRY
1/8" = 1'-0"



KEY PLAN

0 4' 8' 16' 24'
1/8" = 1'-0"

Revisions		Date

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COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL ENGINEER — JOSHUA CALHOUN — No. PE093054

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

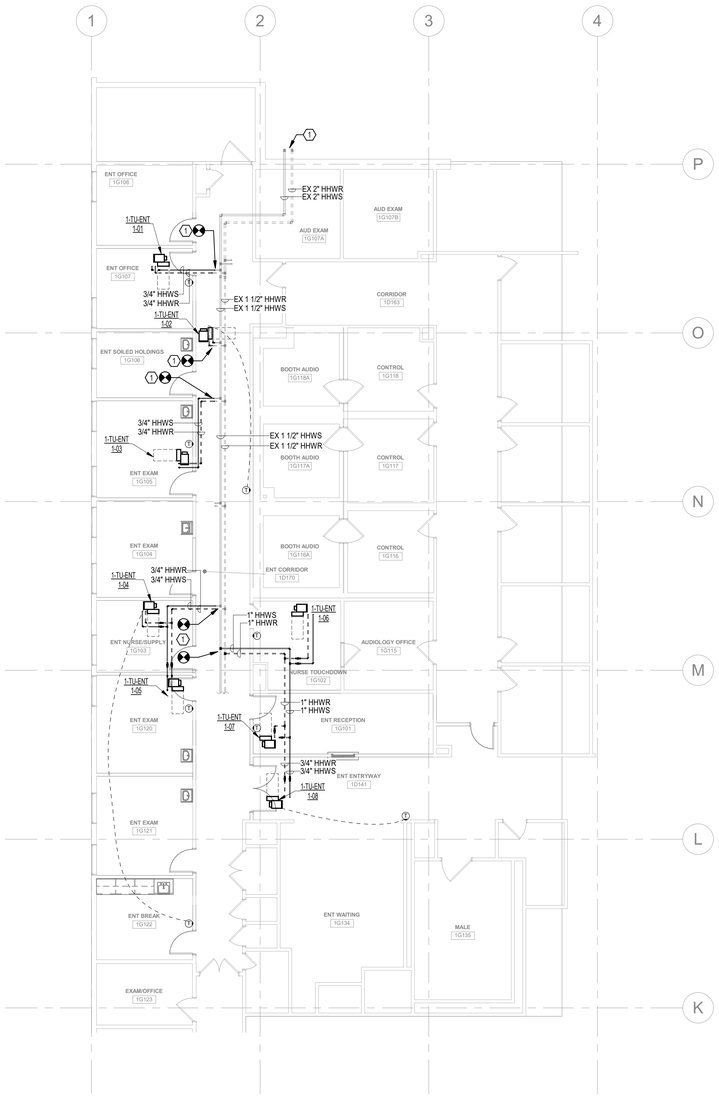
Drawing Title	Phase	Project Title	Project Number
FLOOR PLAN - MECHANICAL - NEW WORK	FINAL BID DOCUMENTS	RENOVATE SPACE FOR PATIENT IMPROVEMENTS	VA Project No. 637-22-102; AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number: 47
		Issue Date: 03/12/2026; Checked: JMC; Drawn: CAP	Drawing Number: MH101

DRAWING NOTES:

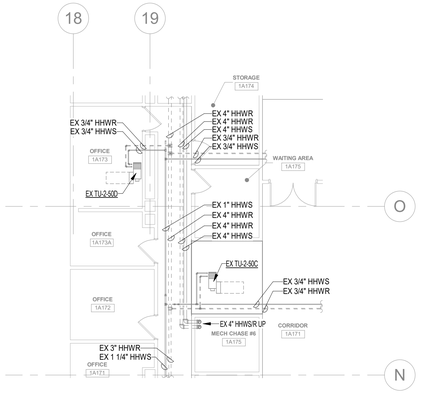
1. EXISTING HVAC SYSTEMS DRAWN ON PLAN ARE BASED ON LIMITED EXISTING DOCUMENTATION AND FIELD VERIFICATION. THE CONTRACTOR SHALL CONFIRM SIZE OF ALL EXISTING DUCTWORK AND PIPING LOCATED WITHIN AND ADJACENT TO THE PROJECT SCOPE BOUNDARY PRIOR TO FABRICATION ANY NEW DUCTWORK OR PIPING SHOWN ON PLAN. CONTRACTOR SHALL MAKE COR AWARE OF ANY DEVIATIONS OF THE EXISTING DUCTWORK OR PIPING AS SHOWN ON PLAN.

CODED NOTES:

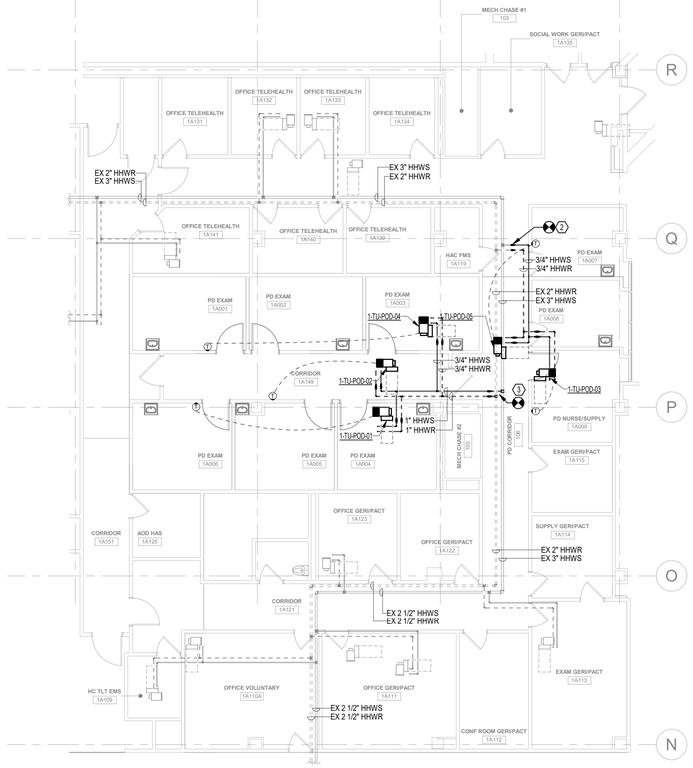
1. CONNECT NEW PIPING TO EXISTING PIPING AT EXISTING SHUTOFF VALVE. VALVE LOCATION UNKNOWN AS PROJECT 637-19-102 WAS STILL IN CONSTRUCTION AT THE TIME OF DESIGN. CONTRACTOR SHALL CONFIRM ACTUAL LOCATION OF VALVE AND SHALL REFLECT INFORMATION IN AS-BUILT DRAWINGS.
2. CONNECT TO EXISTING PIPING AT INDICATED POINT, IF NO VALVE EXISTS, PROVIDE NEW ISOLATION VALVES.
3. CONTRACTOR SHALL HOT TAP EXISTING HHWS/R PIPING FOR CONNECTION INTO EXISTING MAIN. CONTRACTOR HAS THE OPTION FOR DRAINING AND SHUTTING DOWN THE EXISTING SYSTEM BUT SHALL FULLY COORDINATE WITH VA COR FOR CONNECTION AND SHALL MINIMIZE SHUTDOWN TIME.



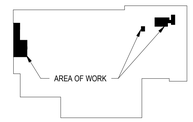
1 FIRST FLOOR PLAN - MECHANICAL PIPING - NEW WORK - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - MECHANICAL PIPING - NEW WORK - PODIATRY WAITING
1/8" = 1'-0"



3 FIRST FLOOR PLAN - MECHANICAL PIPING - NEW WORK - PODIATRY
1/8" = 1'-0"



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	FLOOR PLAN - MECHANICAL PIPING - NEW WORK
Phase	FINAL BID DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Location	ASHEVILLE VAMC
Issue Date	03/12/2026
Checked	JMC
Drawn	CAP
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	47
Drawing Number	MP101

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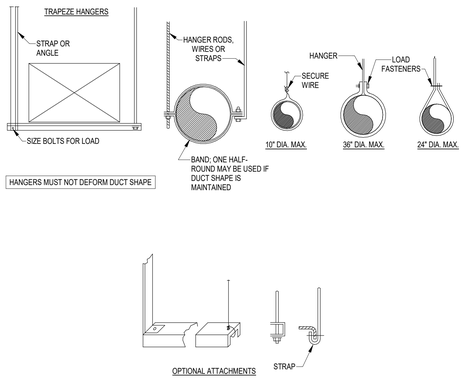
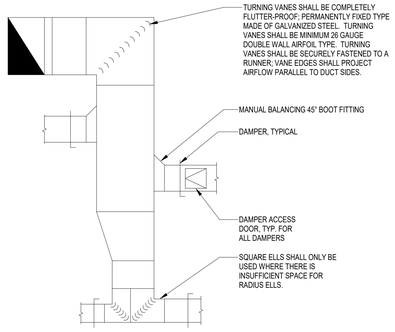
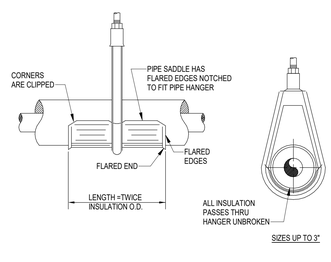


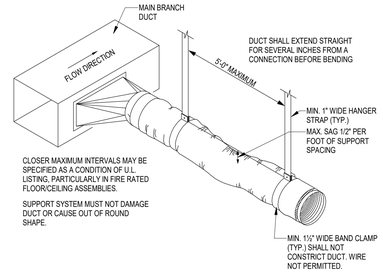
1 DUCT SUPPORT DETAIL
N.T.S.



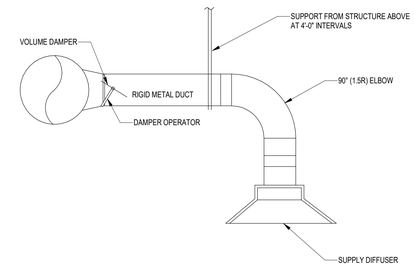
2 LOW PRESSURE DUCTWORK DETAIL
N.T.S.



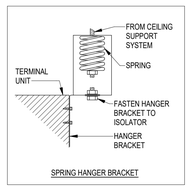
3 INSULATED PIPE HANGER DETAIL
N.T.S.

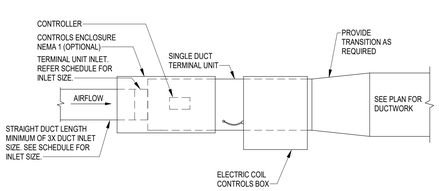


4 FLEXIBLE DUCT SUPPORT DETAIL
N.T.S.

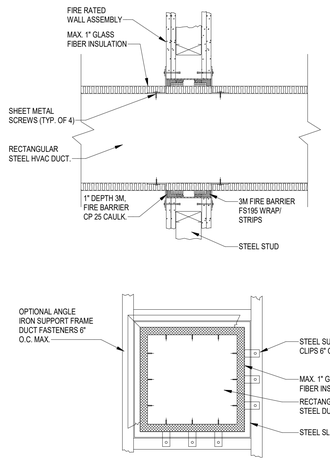


5 DUCT/DIFFUSER LAYOUT W/ DAMPER DETAIL
N.T.S.

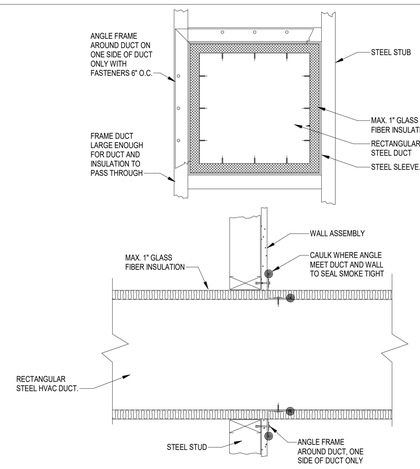




6 SINGLE DUCT TERMINAL UNIT INSTALLATION DETAIL
N.T.S.



7 DUCT PENETRATION THRU FIRE RATED WALL DETAIL
N.T.S.



8 DUCT PENETRATION THRU NON-RATED WALL DETAIL
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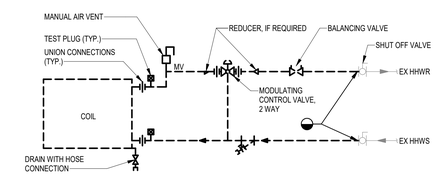
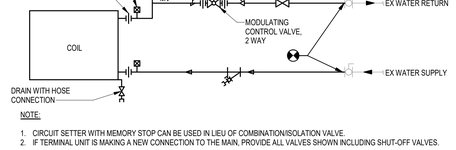


9 TERMINAL UNIT WATER COIL PIPING CONNECTION - DEMOLITION
N.T.S.



NOTE:
1. CIRCUIT SETTER WITH MEMORY STOP CAN BE USED IN LIEU OF COMBINATION/ISOLATION VALVE.
2. IF TERMINAL UNIT IS MAKING A NEW CONNECTION TO THE MAIN, PROVIDE ALL VALVES SHOWN INCLUDING SHUT-OFF VALVES.

10 TERMINAL UNIT WATER COIL PIPING CONNECTION - NEW WORK
N.T.S.

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL DETAILS
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	ASHEVILLE VAMC
Issue Date	03/12/2026
Checked	JSC
Drawn	CAP
Drawing Number	M-501

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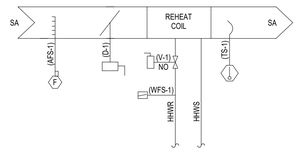

SPACE SENSORS

(T-1)

NOTE: REFER TO MECH. PLANS FOR LOCATIONS.

NOTES:
1. DAMPER D-1 SHALL BE PROVIDED BY VAV TERMINAL BOX MANUFACTURER.

SEQUENCE OF OPERATION

GENERAL:
1. TERMINAL UNIT SHALL BE EQUIPPED WITH A TERMINAL UNIT MOUNTED CONTROLLER.
2. ALL CONTROLS SHALL BE AUTOMATIC AND ALL SETPOINTS SHALL BE ADJUSTABLE.

OPERATION:
1. SET POINTS SHALL BE AS FOLLOWS:
   A. COOLING: 74°F (ADJUSTABLE)
   B. HEATING: 70°F (ADJUSTABLE)
   C. A DEADBAND OF 4°F BETWEEN HEATING AND COOLING SET POINTS SHALL BE MAINTAINED.
2. DAMPER D-1 SHALL MODULATE FROM MAXIMUM POSITION TO MINIMUM POSITION (AS INDICATED IN SCHEDULE) TO MAINTAIN SPACE TEMPERATURE SETPOINT.
3. UPON FALL IN SPACE TEMPERATURE THE TERMINAL UNIT DAMPER WILL MODULATE TO MINIMUM POSITION.
4. ONCE THE DAMPER REACHES MINIMUM POSITION, THE SPACE TEMPERATURE SHALL BE ALLOWED TO DROP THROUGH A DEADBAND.
5. UPON FURTHER DROP IN SPACE TEMPERATURE, THE DAMPER SHALL OPEN TO HEATING POSITION (AS INDICATED IN SCHEDULE) AND THE HEATING HOT WATER VALVE SHALL MODULATE TO MAINTAIN SET POINT ± 0.5°F. THE ADJUSTABLE TOLERANCE OF ± 0.5°F HAS BEEN SELECTED TO PREVENT VALVE HUNTING.

OCCUPIED/UNOCCUPIED MODES:
1. EACH TERMINAL UNIT SHALL HAVE THE OPTION FOR OCCUPIED AND UNOCCUPIED MODES WITHIN THE UNIT CONTROLLER. OCCUPIED/UNOCCUPIED MODES SHALL HAVE UPPER AND LOWER SPACE TEMPERATURE SETPOINT LIMITS THAT SHALL BE PROGRAMMABLE THROUGH THE OPERATOR'S WORKSTATION.

INPUT/OUTPUT SUMMARY

SYSTEM		ANALOG											DIGITAL										SYSTEM FEATURES											
		INPUT									OUTPUT			INPUT					OUTPUT					ALARMS					PROGRAMS					
VARIABLE AIR VOLUME TERMINAL UNIT	COMMUNICATION DATA INTERFACE	TEMPERATURE	HUMIDITY	DIFF. PRESSURE	STATIC PRESSURE	FREQUENCY	CFM	GPM	PPM	SPEED	SETPOINT ADJUSTMENT	VALVE ACTUATOR	DAMPER ACTUATOR	DIFF. PRESSURE SWITCH	STATUS	SPEED SWITCH	CURRENT RELAY	FLOW SWITCH	ON/OFF	DAMPER ACTUATOR	VALVE ACTUATOR	SPEED SIGNAL	ELEC. HEAT STAGES	PROOF	COMMUNICATION FAILURE	DIRTY FILTER	HIGH-LOW VALUE	HIGH-LOW PRESSURE	CO2 LEVEL	TIME SCHEDULE / TREND	PROGRAM START / STOP	HAND-OFF-AUTO	RUN TIME	GRAPHIC	REMARKS
TERMINAL UNIT CONTROLLER	●																																●	BAS
SUPPLY AIR		●					●																				●						●	TS-1, AFS-1
DAMPERS													●																				●	D-1
REHEAT COIL												●						●															●	V-1, WFS-1
SPACE		●								●																	●		●				●	T-1

1 VARIABLE AIR VOLUME TERMINAL BOX - HEATING HOT WATER
N.T.S.

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Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL CONTROLS
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	
Approved:	
Location	ASHEVILLE VAMC
Drawing Number	M-701
Issue Date	03/12/2026
Checked	Checker
Drawn	Author

VA FORM 08 - 6231

EXISTING/MODIFIED AIR HANDLING UNIT SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	OUTSIDE AIR		SUPPLY FAN					RETURN/RELIEF FAN						PREHEAT COIL					COOLING COIL										HUMIDIFIER DATA			FILTER						ELECTRICAL DATA					
					FAN			STD. AIR CFM		FAN			STD. AIR CFM						STEAM SIDE																PRE-FILTER		FINAL FILTER								
			MIN. CFM	MAX. CFM	QTY.	HP	MAX RPM	MIN.	MAX.	MAX. ESP	QTY.	HP	MAX. RPM	MIN.	MAX.	MAX. ESP	EAT DB (°F)	LAT DB (°F)	MAX FACE VEL. (FPM)	MAX APD (In. H2O)	TOTAL CAP. (MBH)	PRES SURE (PSIG)	NUMB ER OF ROWS	FINS PER FOOT	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	MAX FACE VEL. (FPM)	MAX APD (In. H2O)	MAX WPD (FI. H20)	SENS. CAP. (MBH)	TOTAL CAP. (MBH)	EWT (°F)	LWT (°F)	GPM	AIRFLOW (CFM)	HUMIDIFICATION LOAD (LBS/HR)	STEAM PRESSURE (PSI)	MAX VEL. (FPM)	MERV	APD INITIAL	APD FINAL	MERV	APD INITIAL	APD FINAL	V	PH	HZ	UNIT WEIGHT	BASIS OF DESIGN	NOTES
EX-AHU-ENT	ENT EXAM SUITE	ROOFTOP	200	3500	2	3	3704	-	3500	1.5	2	2	2402	-	3300	0.75	0	53.33	483	0.15	202.52	30	2	72	95	75	45	44.9	381	0.64	17.2	193.32	326.32	38	49.62	59	3500	81.07	10	360	8	-	0.6	11	-	0.6	460	3	60	5819	-	1
AHU-ENT	ENT EXAM SUITE	ROOFTOP	850	3225	2	3	-	1845	3225	1.5	2	2	-	1035	2415	0.75	6.8	50	445	0.15	151.2	30	2	72	88.3	71.2	55	54	351	0.64	17.2	116.5	178.9	38	50	29.8	3225	81.07	10	332	8	-	0.6	13	-	-	460	3	60	5819	-	2
EX-AHU-POD	POD EXAM SUITE	ROOFTOP	500	2200	1	5	2599	-	2200	1.5	1	5	1441	-	1700	0.75	0	52.16	426	0.15	124.51	30	2	72	95	75	45	44.9	301	0.38	5.81	121.89	205.72	38	50.34	36	2200	50.96	10	300	8	-	0.57	11	-	0.58	460	3	60	5055	-	1
AHU-POD	POD EXAM SUITE	ROOFTOP	400	2200	1	5	-	695	2185	1.5	1	5	-	1010	1760	0.75	6.8	50	423	0.15	102.4	30	2	72	88.3	71.2	55	54	299	0.38	5.81	78.9	121.2	38	50	20.2	2185	50.96	10	298	8	-	0.57	13	-	-	460	3	60	5055	-	2

NOTES:

1. INFORMATION LISTED IS BASED OFF OF EXISTING DRAWINGS PROVIDED TO THE AE DESIGN TEAM INDICATED BY "EX-AHU". EXISTING CONDITIONS AND AIRFLOW AND WATER BALANCE TO BE CONFIRMED BY THE GENERAL CONTRACTOR AND TAB CONTRACTOR PRIOR TO START OF CONSTRUCTION ACTIVITIES.
2. AHU SHALL BE RE-BALANCED TO THE VALUES LISTED IN THE LINES "AHU-XXX".

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

UNIT NO.	SERVICE	INLET SIZE	PRIMARY AIR				TERMINAL HEAT COIL CHARACTERISTICS							BASIS OF DESIGN
			MIN CFM	DESIGN CFM	HEATING CFM	NC RATING	MAX APD (IN WG)	MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM	WPD	
1-TU-ENT 1-01	1G107	6	90	280	160	25	1	4.6	55	81	180	160	0.5	1.0	PRICE: SDV
1-TU-ENT 1-02	1D163	10	865	865	865	20	1	19.5	55	76	180	160	1.9	1.0	PRICE: SDV
1-TU-ENT 1-03	CORRIDOR	8	120	400	140	20	1	4.8	55	87	180	160	0.5	1.0	PRICE: SDV
1-TU-ENT 1-04	1G103	6	85	270	180	25	1	4.7	55	79	180	160	0.5	1.0	PRICE: SDV
1-TU-ENT 1-05	1G102	8	120	375	140	20	1	4.5	55	85	180	160	0.5	1.0	PRICE: SDV
1-TU-ENT 1-06	1G111	6	90	280	200	25	1	4.5	55	76	180	160	0.5	1.0	PRICE: SDV
1-TU-ENT 1-07	1G109	8	125	405	200	20	1	4.5	55	76	180	160	0.5	1.0	PRICE: SDV
1-TU-ENT 1-08	1A010	8	350	350	350	20	1	7.7	55	75	180	160	0.8	1.0	PRICE: SDV
1-TU-POD-01	PD EXAM	10	180	600	205	20	1	4.7	55	76	180	160	0.5	1.0	PRICE: SDV
1-TU-POD-02	CORRIDOR 1A149	8	500	500	500	20	1	10.9	55	75	180	160	1.1	1.0	PRICE: SDV
1-TU-POD-03	PD NURSE SUPPLY	6	60	200	200	20	1	4.4	55	75	180	160	0.4	1.0	PRICE: SDV
1-TU-POD-04	PD EXAM	10	180	600	205	20	1	4.7	55	76	180	160	0.5	1.0	PRICE: SDV
1-TU-POD-05	1A007/1A008	6	90	300	205	20	1	4.5	55	75	180	160	0.5	1.0	PRICE: SDV

NOTES:

1. PROVIDE 2-WAY CONTROL VALVE FOR EACH TERMINAL UNIT.
2. ALL TERMINAL UNITS SHALL BE FURNISHED WITH CONTROLS.
3. CONTRACTOR SHALL COORDINATE 36" OF CLEARANCE FOR ALL VAV BOX CONTROL PANELS
4. CONTROLLERS SHALL BE PROVIDED TO MANUFACTURER FACTORY FOR FACTORY MOUNT AND WIRE. TERMINAL UNIT CONTROLS SHALL BE 24V POWER.
5. PROVIDE POWER SOURCE LABEL ON EACH VAV BOX. REFER TO ELECTRICAL DRAWINGS.
6. NUMBER OF COIL ROWS AND COIL TYPE MAY VARY TO OBTAIN LEAVING AIR TEMPERATURES AS SHOWN.
7. ATU'S SHOWN AS EXISTING/RELOCATED ARE IN GOOD CONDITION FROM A RECENT RENOVATION AND SHALL BE CAREFULLY DISCONNECTED AS SHOWN IN THE DEMOLITION DRAWINGS AND STORED FOR RE-USE IN THE NEW WORK AS INDICATED ABOVE. PROVIDE NEW CONTROLS TO THE RELOCATED ATU BOXES.

AIR DEVICE SCHEDULE

NO.	MIN CFM	MAX CFM	NECK SIZE (WxH)	NECK SIZE (ø)	MAX. NC	TYPE	BASIS OF DESIGN
SUPPLY AIR							
S3	0	180		6	18	PLAQUE	PRICE SPD
S4	180	280		8	18	PLAQUE	PRICE SPD
S5	281	320		10	18	PLAQUE	PRICE SPD
S6	321	400		12	18	PLAQUE	PRICE SPD
S7	401	600		14	18	PLAQUE	PRICE SPD
RETURN AIR							
R3		160		6	18	PERFORATED	PRICE PDDR
R4		300		8	18	PERFORATED	PRICE PDDR
R5		500		10	18	PERFORATED	PRICE PDDR
EXHAUST AIR							
E3		100		6	18	PERFORATED	PRICE PDDR
E4		210		8	18	PERFORATED	PRICE PDDR

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES
Phase: FINAL BID DOCUMENTS
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Building Number:
Approved:
FULLY SPRINKLERED
Location: ASHEVILLE VAMC
Issue Date: 03/12/2026
Checked: JMC
Drawn: CAP
Drawing Number: M-801

Autodesk Docs://0123039 - VAMC Asheville - Patient Improvements/0123039_VA Asheville - Patient Improve_R23_MEPFAFPT.rvt
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ELECTRICAL SYMBOLS - POWER/LIGHTING PLANS

SYMBOL	DESCRIPTION
	EXISTING TO BE REMOVED (HEAVY, DASHED LINE)
	EXISTING TO REMAIN (LIGHT, SOLID LINE)
	NEW (HEAVY, SOLID LINE)
	SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL - OVER 250 VOLTS
	SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL, UNDER 250 VOLTS
	BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, FLUSH MOUNTED
T	TRANSFORMER, PLAN
	DISCONNECT SWITCH, UNFUSED
	STARTER, COMBINATION WITH DISCONNECT SWITCH
	STARTER OR MOTOR CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	RECEPTACLE, DUPLEX SUBSCRIPTS (TYPICAL FOR ALL RECEPTACLES): G = GFCI TYPE T = TAMPER RESISTANT CH = MOUNTED AT COUNTER HEIGHT WITH BOTTOM OF DEVICE AT 6" ABOVE COUNTER OR 2" ABOVE BACKSPLASH OR AS NOTED ON PLANS
	RECEPTACLE, DOUBLE DUPLEX (QUADRAPLEX)
	RECEPTACLE, DUPLEX ON EMERGENCY POWER

SYMBOL	DESCRIPTION
$S_{\#}$	SWITCH (# SUBSCRIPT AS INDICATED BELOW) - SEE PLANS AND SPECIFICATIONS FOR DETAILS BLANK = SINGLE POLE 3 = THREE-WAY D = DIMMER F = FAN SWITCH LV= LOW VOLTAGE - SEE BELOW FOR DETAILS T = TIMER OPERATED M = MANUAL MOTOR STARTING MP= MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE) E= SWITCH ON EMERGENCY CIRCUIT (RED DEVICE) 2 = DOUBLE POLE 4 = FOUR-WAY K = KEY OPERATED P = WITH PILOT LIGHT RC= REMOTE CONTROL WP= WEATHER PROOF OS= DUAL TECHNOLOGY OCCUPANCY SENSOR a= SUBSCRIPT DEFINES FIXTURES THAT ARE CONTROLLED BY SWITCH X= EXPLOSION PROOF HOA= HAND/OFF/AUTOMATIC
S LV2Dab	LOW VOLTAGE SWITCH - SEE PLANS, SPECIFICATIONS AND WIRING DIAGRAMS FOR DETAILS SUBSCRIPT(S) INDICATE FIXTURES CONTROLLED 'D' INDICATES 0-10V DIMMING '2' INDICATES NUMBER OF LOW VOLTAGE ZONES 'LV' INDICATES LOW VOLTAGE SWITCH
LPP a	LIGHTING POWER PACK RELAY SUBSCRIPT INDICATES CONTROLLING SWITCH AND FIXTURES CONTROLLED (TYPICAL)
LPD	LIGHTING POWER PACK RELAY WITH 0-10V DIMMING
LPE	EMERGENCY LIGHTING POWER PACK RELAY - UL924 COMPLIANT
LPDE	EMERGENCY LIGHTING POWER PACK RELAY - UL924 COMPLIANT AND 0-10V DIMMING
A	FIXTURE TYPE
2 a	LED FIXTURE, RECESSED, PENDANT OR SURFACE CEILING LOWER CASE LETTER INDICATES CONTROLLING SWITCH CIRCUIT NUMBER
	LED, RECESSED, PENDANT OR SURFACE CEILING LIGHTING FIXTURE SHADING INDICATES FIXTURE CONNECTED TO EMERGENCY CIRCUIT OR PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK; "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS)
	LED, RECESSED, PENDANT OR SURFACE CEILING LUMINAIRE
	LED, WALL MOUNTED LUMINAIRE
	EXIT LIGHT, LED, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF LUMINAIRE
	EXIT LIGHT, LED, WALL MOUNTED

ELECTRICAL ONE-LINE

SYMBOL	DESCRIPTION
	TRANSFORMER, ONE-LINE
### ABC	PANELBOARD MAIN CIRCUIT BREAKER TYPE, ONE-LINE ### - INDICATES BREAKER RATING ABC - INDICATES PANEL DESIGNATION
### ABC	PANELBOARD MAIN LUG TYPE, ONE-LINE ### - INDICATES BUS RATING ABC - INDICATES PANEL DESIGNATION
ABC	DOUBLE TUB PANELBOARD, ONE-LINE ABC - INDICATES PANEL DESIGNATION
###A	CIRCUIT BREAKER ### - INDICATES BREAKER RATING
###A	BRANCH CIRCUIT BREAKER ### - INDICATES BREAKER RATING
	UNINTERRUPTIBLE POWER SUPPLY (UPS), ONE-LINE
GND	GROUND BUS BAR
	EARTH GROUND
SPD	SURGE PROTECTIVE DEVICE

SHEET LIST

SHEET NUMBER	SHEET NAME
E-001	ELECTRICAL LEGENDS & SYMBOLS
E-002	ELECTRICAL GENERAL NOTES
ED101	FLOOR PLAN - LIGHTING - DEMO
ED102	FLOOR PLAN - ELECTRICAL EQUIPMENT - DEMO
EL101	FLOOR PLAN - LIGHTING - NEW WORK
EP101	FLOOR PLAN - ELECTRICAL EQUIPMENT - NEW WORK
E-501	ELECTRICAL DETAILS
E-601	ELECTRICAL DIAGRAMS
E-801	ELECTRICAL SCHEDULES

ELECTRICAL ABBREVIATIONS

ABBR.	DESCRIPTION
1PH	SINGLE-PHASE
3PH	THREE-PHASE
4W	FOUR-WIRE
A/E	ARCHITECT/ENGINEER
AF	AMPERE FRAME OR AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMP	AMPERE
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
cd	CANDELA
CD	CONSTRUCTION DOCUMENTS
CKT	CIRCUIT
CLG	CEILING
COAX	COAX CABLE
COMM	COMMUNICATION
CONC	CONCRETE
CONT	CONTINUE
COORD	COORDINATE
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DS	DISCONNECT SWITCH
DWG	DRAWING
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
ESMT	EASEMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FLA	FULL LOAD AMPS
FP	FIRE PROTECTION
FT	FEET OR FOOT
GND	GROUND
G or GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GTB	GROUND TERMINAL BOX
HD	HEAT DETECTOR
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
KCMIL	ONE-THOUSAND CIRCULAR MILS
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAH	KILOVOLT AMPERE PER HOUR
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWH	KILOWATT HOUR

ABBR.	DESCRIPTION
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LM	LUMEN
LP	LIGHT POLE
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	METAL-CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
MVA	MEGAVOLT-AMPERE
MW	MEGAWATT MICROWAVE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT OR N	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PCB	POLYCHLORINATED BIPHENYL
PH	PHASE
PNL	PANEL
POD	POWER OPERATED DAMPER
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
SCC	SHORT CIRCUIT CAPACITY
SD	SMOKE DETECTOR
SF	SQUARE FOOT (FEET)
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

Revisions | Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL LEGENDS & SYMBOLS

Phase: FINAL BID DOCUMENTS

Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS

Project Number: VA Project No. 637-22-102; AG Project No. 0123039

Building Number:

Approved:

Location: ASHEVILLE VAMC

Issue Date: 03/12/2026

Checked: TDB

Drawn: WWS

Drawing Number: E-001

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ELECTRICAL DEMOLITION NOTES

1. THE FACILITY WILL REMAIN OCCUPIED DURING RENOVATIONS.
2. DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN DASHED LINE TYPE ARE EXISTING TO BE DEMOLISHED; DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN LIGHT SOLID LINE TYPE ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
3. EXISTING EQUIPMENT, LIGHT FIXTURES, DEVICES SHOWN ARE BASED ON FIELD SURVEYS AND RECORD DRAWINGS PROVIDED BY THE OWNER, AND IS NOT NECESSARILY ALL INCLUSIVE IN EVERY AREA AS FAR AS EXISTING ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND DEVICES. EXISTING CIRCUITING SHOWN IS BASED ON RECORD DRAWINGS AND THE SURVEYED PANEL DIRECTORIES, WHERE THEY WERE AVAILABLE. THE ACTUAL CONDITIONS MAY VARY. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. THE CONDITIONS SHOWN ARE INTENDED TO SHOW THE LOCATIONS OF EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT, WHERE SHOWN ON THE PLAN DRAWINGS, AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL COORDINATION NECESSARY TO COMPLETE THE NEW WORK. FIELD CONDITIONS SHALL GOVERN.
4. WHERE EXISTING DEVICES ARE INDICATED TO REMAIN OR RELOCATED, LOCATED WITHIN THE SCOPE OF THIS PROJECT AND EXISTING CIRCUITING INFORMATION IS UNAVAILABLE, CONTRACTOR IS TO PROVIDE CIRCUIT TRACING TO IDENTIFY PANEL AND CIRCUIT DEVICES ARE CONNECTED TO AND PROVIDE THAT INFORMATION TO A/E PRIOR TO ROUTING CONDUITS AND WIRING FOR NEW DEVICES AND EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT.
5. PRIOR TO DEMOLITION, FIELD VERIFY CONDUIT AND WIRING WHICH SERVES AREAS OUTSIDE THE SCOPE OF WORK AND PASSES THROUGH THE AREA OF WORK, MAINTAIN CONTINUITY OF SYSTEMS.
6. WHERE EXISTING DEVICES ARE TO REMAIN, CONTRACTOR MUST EXTEND EXISTING CIRCUITING WHERE NECESSARY TO MAINTAIN CONTINUITY OF CIRCUIT.
7. COORDINATE WITH THE OWNER FOR DISPOSITION OF ELECTRICAL ITEMS TO BE DEMOLISHED. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS SUCH AS COVERPLATES, RECEPTACLES, LIGHT FIXTURES, PANELBOARDS, TRANSFORMERS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH THE OWNER PRIOR TO START OF DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
8. COORDINATE EXACT AREAS, WALLS, CEILINGS, ETC. TO BE DEMOLISHED WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND MECHANICAL DEMOLITION PLANS.
9. WHERE EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT ARE INDICATED TO BE DEMOLISHED, REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE PANEL OR TO NEAREST JUNCTION BOX TO MAINTAIN CIRCUIT CONTINUITY OF DEVICES TO REMAIN AND EQUIPMENT TO REMAIN. WHERE PANELS ARE TO BE REMAIN, TURN BREAKER TO "OFF" POSITION AND LABEL THE CIRCUIT AS "SPARE" ON THE PANEL DIRECTORY.
10. ALL AREAS OUTSIDE THE SCOPE OF CONSTRUCTION ARE TO REMAIN ENERGIZED. COORDINATE PHASING WITH CONSTRUCTION MANAGER AND OWNER PRIOR TO DEMOLITION WHICH MAY RESULT IN INTERRUPTION OF POWER.
11. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR EXTENT OF AREA REQUIRING DEMOLITION AND ADDITIONAL INFORMATION ON ELECTRICAL DEMOLITION WITHIN THAT AREA. DISCONNECT ELECTRICAL SERVICE TO ALL EQUIPMENT BEING REMOVED. DEMOLITION SHALL BE PHASED AS REQUIRED BY DIVISION 1, OR DIRECTED BY THE OWNER.
12. REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED OR RENOVATED AREA. CAP BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT. REMOVE ALL ASSOCIATED SUPPORTS. REMOVE WIRING BACK TO SOURCE OF VOLTAGE.
13. ELECTRICAL DEVICES WITHIN THE AREA OF WORK., AND NOT NOTED ON THE DEMOLITION DRAWINGS, WHETHER DUE TO CONCEALMENT BY STORAGE SHELVING, CASEWORK, FURNITURE OR FOR OTHER REASONS, ARE TO BE REMOVED AS REQUIRED, UNLESS SHOWN AS EXISTING TO REMAIN.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS. REPAIRS ARE TO BE DONE TO LOGICAL EDGES OF SURFACES AFFECTED AND SHALL MATCH IMMEDIATE ADJACENT AREAS IN CONSTRUCTION, MATERIAL, FIRE RATING, FINISH AND COLOR.
15. PROVIDE BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN. MATCH COLOR OF NEW ADJACENT DEVICE COVERPLATES.
16. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND OBTAIN CLARIFICATIONS FROM ARCHITECT/ENGINEER IF NECESSARY.
17. COORDINATE SERVICE INTERRUPTION WITH CONSTRUCTION MANAGER, OWNER, LANDLORD, AND UTILITY COMPANY, WHERE APPLICABLE. ANY INTERRUPT POWER IS WITHOUT WRITTEN PERMISSION. PROVIDE A MINIMUM OF ONE WEEK'S WRITTEN NOTIFICATION WHEN POWER IS DESIRED TO BE INTERRUPTED.
18. EXERCISE EXTREME CAUTION WHEN REMOVING/ RELOCATING WIRING AND EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT OTHER WIRING DEVICES, EQUIPMENT AND LIGHT FIXTURES THAT MAY BE CONNECTED TO THE SAME CIRCUIT REMAIN OPERATIONAL AND ACTIVE.
19. INFORMATION INDICATED IN THE DEMOLITION PORTION OF THE CONTRACT DRAWINGS IS DIAGRAMMATIC IN NATURE. FIELD VERIFY ELECTRICAL CIRCUIT HOMERUNS TO ALL ELECTRICAL ITEMS SCHEDULED TO BE DEMOLISHED AND PERFORM THE WORK AS INTENDED AND DEPICTED ON THE DRAWINGS.
20. UPDATE ALL EXISTING ELECTRICAL EQUIPMENT NAMEPLATES AND DIRECTORIES AS NECESSARY TO REFLECT FINAL AS-BUILT CONDITIONS AT THE END OF CONSTRUCTION.
21. STORE ITEMS INDICATED TO BE RETURNED TO THE OWNER IN A DRY, CLEAN AND PROTECTED AREA. NOTIFY OWNER WHEN ITEMS ARE READY TO BE REMOVED.
22. COORDINATE ANY ALTERATION AND CHANGES TO THE ELECTRICAL SERVICE WITH THE LOCAL UTILITY COMPANY AND THE OWNER PRIOR TO COMMENCEMENT OF WORK.
23. SCHEDULE ALL POWER INTERRUPTION WITH OWNER FOR EXACT DATE, TIME AND DURATION. PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO DISCONNECTING ANY POWER TO ANY PORTION OF THE BUILDING, AND MAKE ARRANGEMENTS TO MAINTAIN POWER TO ALL CRITICAL EQUIPMENT AS NEEDED AND REQUESTED BY THE OWNER PRIOR TO COMMENCEMENT OF WORK.
24. PROVIDE ANY NECESSARY REPROGRAMMING OF EXISTING BUILDING FIRE ALARM SYSTEMS TO DISABLE FIRE ALARM DEVICES THAT ARE BEING DISCONNECTED AND REMOVED, AND FOR ANY NEW DEVICES THAT ARE ADDED, AS PART OF BID PRICE.
25. THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DEMOLITION WHETHER INDICATED ON THE PLANS OR NOT.
26. ALL CONDUITS SERVING OTHER SPACES THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION SO AS NOT TO CAUSE DISRUPTION TO THESE OTHER SPACES. ENSURE THAT ALL CONDUITS, NEW OR EXISTING WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED IN ACCORDANCE WITH THE NEC. ANY EXISTING CONDUIT IS INSTALLED BELOW THE HEIGHT OF THE NEW CEILING SHALL BE RELOCATED TO ABOVE THE NEW CEILING HEIGHT.
27. REMOVE ALL ABANDONED WIRING AND CONDUIT THAT IS WITHIN THE PROJECT AREA PRIOR TO THE END OF CONSTRUCTION.
28. UPDATE PANELBOARD DIRECTORIES WHICH ARE MODIFIED BY THIS PROJECT.
29. REPAIR DISTURBED AREAS TO MATCH EXISTING CONDITIONS.

ELECTRICAL GENERAL NOTES

GENERAL:

1. THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP, METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
2. PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS AND METHOD OF OPERATION FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
3. INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
4. INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER. ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER.
5. PROVIDE A COMPLETE UL LISTED LIGHTNING PROTECTION SYSTEM WITH A MASTER LABEL FOR THE ENTIRE FACILITY PER THE REQUIREMENTS OF NFPA 780, AND THE DIVISION 26 SPECIFICATIONS, UNLESS NOTED OTHERWISE. LIGHTNING PROTECTION SYSTEM SHALL INCLUDE BURIED COUNTERPOISE, UNLESS NOTED OTHERWISE.
6. INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH NORTH CAROLINA STATUTES REGARDING MERCURY-CONTAINING DEVICES, AND WITH ALL DEP AND EPA APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.
7. ALL POWER CIRCUITS HAVE BEEN DESIGNED IN COMPLIANCE WITH SECTION C405.7.3 OF THE ENERGY CONSERVATION CODE, NORTH CAROLINA BUILDING CODE REQUIRING 2% OR LESS VOLTAGE DROP FOR FEEDERS, AND 3% OR LESS VOLTAGE DROP FOR BRANCH CIRCUITS.
   A. ELECTRICAL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE (NFPA 70).
8. ALL BRANCH CIRCUITS SHALL BE FURNISHED WITH A DEDICATED NEUTRAL. SHARED NEUTRALS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
9. VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E., COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, LAUNDRY APPLIANCES, PROJECTION SCREENS, SHOP TOOLS, MACHINE, ELEVATORS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED.
10. VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT. PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROPRIATE TRADE'S APPROVED SHOP DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS OTHERWISE NOTED.
11. ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
12. WHERE STRUCTURAL WALLS ARE OF TILT-UP CONSTRUCTION, PROVIDE COORDINATION FOR EXACT DIMENSIONS AND OPENINGS REQUIRED FOR ALL ELECTRICAL COMPONENTS INSTALLED WITHIN TILT-UP WALLS DURING THE SHOP DRAWING REVIEW PROCESS OF THE TILT-UP WALLS, PRIOR TO MANUFACTURE OF THE TILT-UP WALLS.
13. LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS. EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGHING IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
14. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED ON RISER DIAGRAMS WHETHER OR NOT INDICATED ON PLANS AND VICE VERSA.
15. ROUTING OF CONDUIT IS DIAGRAMMATIC AND NOT INTENDED TO SHOW REQUIRED OFFSETS AND DETAILS. COORDINATE EXACT ROUTING WITH FIELD CONDITIONS AND OTHER TRADES.
16. COORDINATE RECEPTACLE LOCATIONS WITH TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS SO THAT A 120V 20A 5-20R RECEPTACLE IS LOCATED ADJACENT TO EACH VOICE/DATA OUTLET AND TV OUTLET INDICATED ON PLANS. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT, UNLESS OTHERWISE NOTED ON PLANS.
17. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, LANDSCAPE, INTERIOR DESIGN, TECHNOLOGY, STRUCTURAL, AND KITCHEN EQUIPMENT DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATIONS.
18. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
19. COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE. PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
20. ANY TEMPORARY INTERRUPTION ON POWER REQUIRED FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED IN WRITING BY THE OWNER AND SCHEDULED IN ADVANCE.
21. COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, GROUNDING, UTILITY ENGINEERING AND IMPACT FEES.
22. CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES OR DAMAGE. ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT. RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER, AT NO ADDITIONAL COSTS. REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
23. COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. REVIEW ALL CONTRACT DRAWINGS TO ASCERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM A/E PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADE'S WORK.
24. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO 6' ABOVE EQUIPMENT OR STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC.
25. PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING AND EXIT SIGNAGE REQUIRED DURING THE PROJECT CONSTRUCTION PHASE.
26. THE INFRASTRUCTURE FOR THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE ACCESS CONTROL/CCTV OR SECURITY ELECTRONICS SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE ACCESS CONTROL/ CCTV SYSTEM CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS, SIZES AND QUANTITY. CONDUIT STUB-UPS PRIOR TO ROUGH IN.
27. THE INFRASTRUCTURE FOR THE VOICE/DATA TELECOMMUNICATIONS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT AND COMPONENTS. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE TELECOMMUNICATIONS CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS, SIZES AND QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN.
28. PROVIDE 120V 20A 5-20R RECEPTACLE AT ALL FAN COIL UNITS FOR CONDENSATE PUMP POWER AND HOT WATER RECIRCULATING PUMPS, WHETHER SHOWN ON PLANS OR NOT. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT.
29. PROVIDE 120V CONNECTION TO ALL MOTORIZED DAMPERS INDICATED ON MECHANICAL PLANS, WHETHER SHOWN ON DIVISION 26 DRAWINGS OR NOT. FIRE/SMOKE DAMPER CIRCUITS ARE TO BE PROVIDED FROM EMERGENCY BRANCH PANEL (LEGALLY REQUIRED BRANCH IF AVAILABLE). MOTORIZED DAMPERS WITHIN THE SAME AREA CAN BE CIRCUITED TO THE SAME CIRCUIT (I.E. DEDICATED CIRCUIT IS NOT REQUIRED).
30. PROVIDE PHONE/DATA OUTLET WITH 1" RACEWAY, AND 120V RECEPTACLE ON DEDICATED CIRCUIT ADJACENT TO EACH AIR HANDLING UNIT FOR CONTROL POWER.
31. PROVIDE 120V DEDICATED CIRCUIT TO EACH AIR HANDLING UNIT WITH SEPARATE CONNECTIONS TO UNIT UV LIGHT, UNIT LIGHTS, UNIT RECEPTACLE, AND BI-POLAR IONIZATION FILTER WHERE PROVIDED. COORDINATE WITH DIVISION 23 SHOP DRAWINGS.
32. UNLESS NOTED AS EXISTING, ALL ELECTRICAL INDICATED ON THE CONTRACT DOCUMENTS SHALL BE NEW, SHALL BE U.L. LISTED, AND SHALL BEAR A U.L. LABEL. WHERE NO U.L. LABEL OR LISTING IS AVAILABLE, THE MATERIAL SHALL BE LISTED WITH AN APPROVED, NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY.
33. PROVIDE EXPERIENCED, QUALIFIED AND RESPONSIBLE SUPERVISION FOR ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER.
34. THE ELECTRICAL PORTION OF THE CONTRACT DOCUMENTS ARE COORDINATED WITH THE DESIGN BASIS EQUIPMENT SPECIFIED BY DIVISION 26 AND OTHER DIVISIONS. WHERE THE CONTRACTOR ELECTS TO SUBSTITUTE A PRODUCT IN LIEU OF PROVIDING THE DESIGN BASIS, AND SAID SUBSTITUTION IS ACCEPTED BY THE A/E AND OWNER, THE CONTRACTOR SHALL MAKE ALL CORRECTIONS TO THE ELECTRICAL SYSTEM NECESSARY IN ORDER TO ENSURE A COMPLETE AND OPERATIONAL INSTALLATION OF THE EQUIPMENT AT NO ADDITIONAL COSTS. WHERE THE CONTRACTOR'S DESIGN SUBSTITUTION RESULTS IN THE NEED FOR THE ENGINEER TO REVISE THE CONTRACT DOCUMENTS, THE ENGINEER RESERVES THE RIGHT TO REQUEST COMPENSATION FROM THE CONTRACTOR FOR SAID SERVICES.
35. MAINTAIN A CURRENT AND ACCURATE SET OF PROJECT RECORD DOCUMENTS (AS-BUILTS) AT THE SITE THROUGHOUT THE DURATION OF THE PROJECT. RECORD DRAWINGS SHALL BE UPDATED EACH DAY TO REFLECT THE ACTUAL LOCATIONS, SIZES, ROUTING, ETC. OF EACH PORTION OF THE ELECTRICAL SYSTEM AFFECTED BY THIS WORK. A FINAL SET OF RECORD DOCUMENTS SHALL BE ISSUED TO THE A/E FOR REVIEW AND THEN SUBMITTED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING SINGLE LINE DIAGRAM, POWER RISER DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM, SITE PLANS AND ALL ELECTRICAL FLOOR PLANS, DETAILS, PANEL SCHEDULES, ETC.
36. OWNER FURNISHED EQUIPMENT: VERIFY AND COORDINATE ELECTRICAL ROUGH IN REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH IN.
37. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO OVERCURRENT PROTECTION, CONDUIT OR WIRING, MAKE CHANGES IN ACCORDANCE WITH APPLICABLE CODES.

APPLICABLE CODES

1. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), INCLUDING (BUT NOT LIMITED TO):
   a. NATIONAL ELECTRICAL CODE (NEC), NFPA 70 - 2023
   b. NATIONAL FIRE ALARM CODE, NFPA 72 - 2025
   c. LIFE SAFETY CODE, NFPA 101 – 2024
   d. EMERGENCY AND STANDBY POWER SYSTEMS, NFPA 110 – 2025
   e. HEALTH CARE FACILITIES CODE, NFPA 99 - 2024
2. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), INCLUDING (BUT NOT LIMITED TO):
   a. NATIONAL ELECTRICAL SAFETY CODE, ANSI C2
3. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
4. FACILITY GUIDELINES INSTITUTE (FGI):
   a. GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS AND OUTPATIENT FACILITIES
5. FEDERAL COMMUNICATION COMMISSION (FCC)
6. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
7. INSULATED CABLE ENGINEERS ASSOCIATION (ICEA)
8. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
9. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
10. AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
11. ILLUMINATION ENGINEERING SOCIETY (IES)
12. ANTI-FRICTION BEARING MANUFACTURERS ASSOCIATION (AFBMA)
13. BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC. (BOCA)
14. INTERNATIONAL CODE COUNCIL (ICC):
   a. INTERNATIONAL BUILDING CODE (IBC)
15. UNIFORM BUILDING CODE (UBC)
16. COMBINED ANSI/ASHRAE/IES STANDARD 90.1 – "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS"
17. NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION INSTALLATION STANDARDS (NECA)
18. AMERICANS WITH DISABILITIES ACT (ADA)
19. APPLICABLE STATE AND LOCAL CODES, AMENDMENTS, REGULATIONS, AND PRACTICES.
20. APPLICABLE REGULATORY REQUIREMENTS AND ADVISORY PRACTICES OF APPROPRIATE
   a. AUTHORITIES HAVING JURISDICTION (AHJs).
21. APPLICABLE STANDARDS, REGULATIONS, AND PRACTICES OF THE OWNER.

WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED

Revisions | Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL GENERAL NOTES
Phase	FINAL BID DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	
Location	ASHEVILLE VAMC
Issue Date	03/12/2026
Checked	TDB
Drawn	WWS
Drawing Number	E-002

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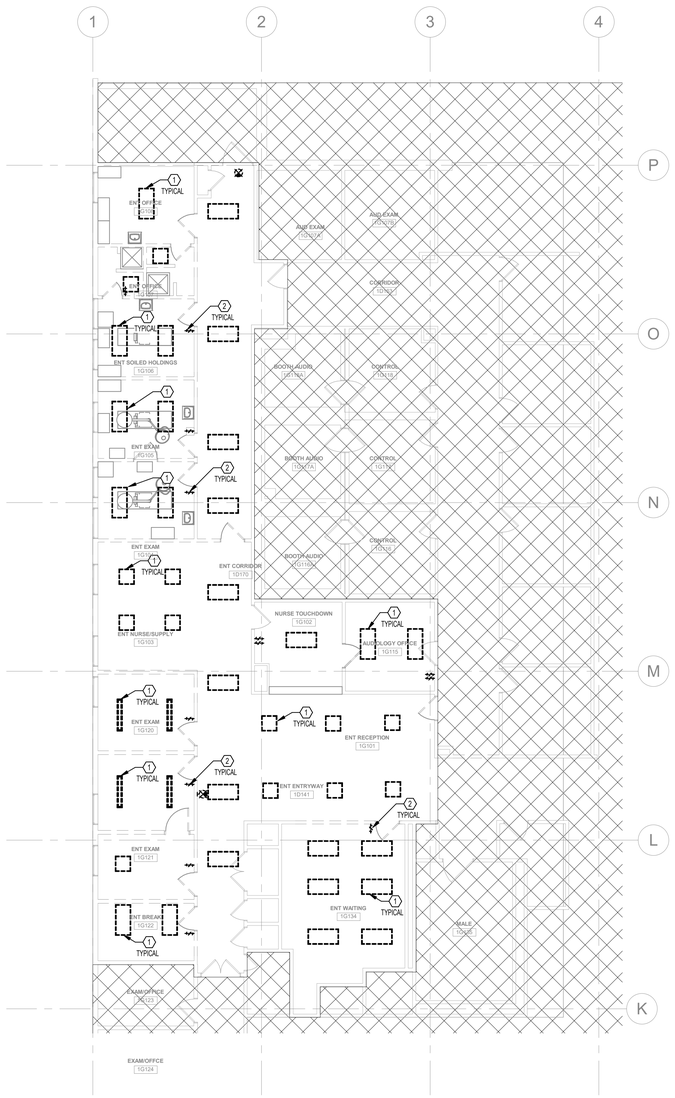
DRAWING NOTES:

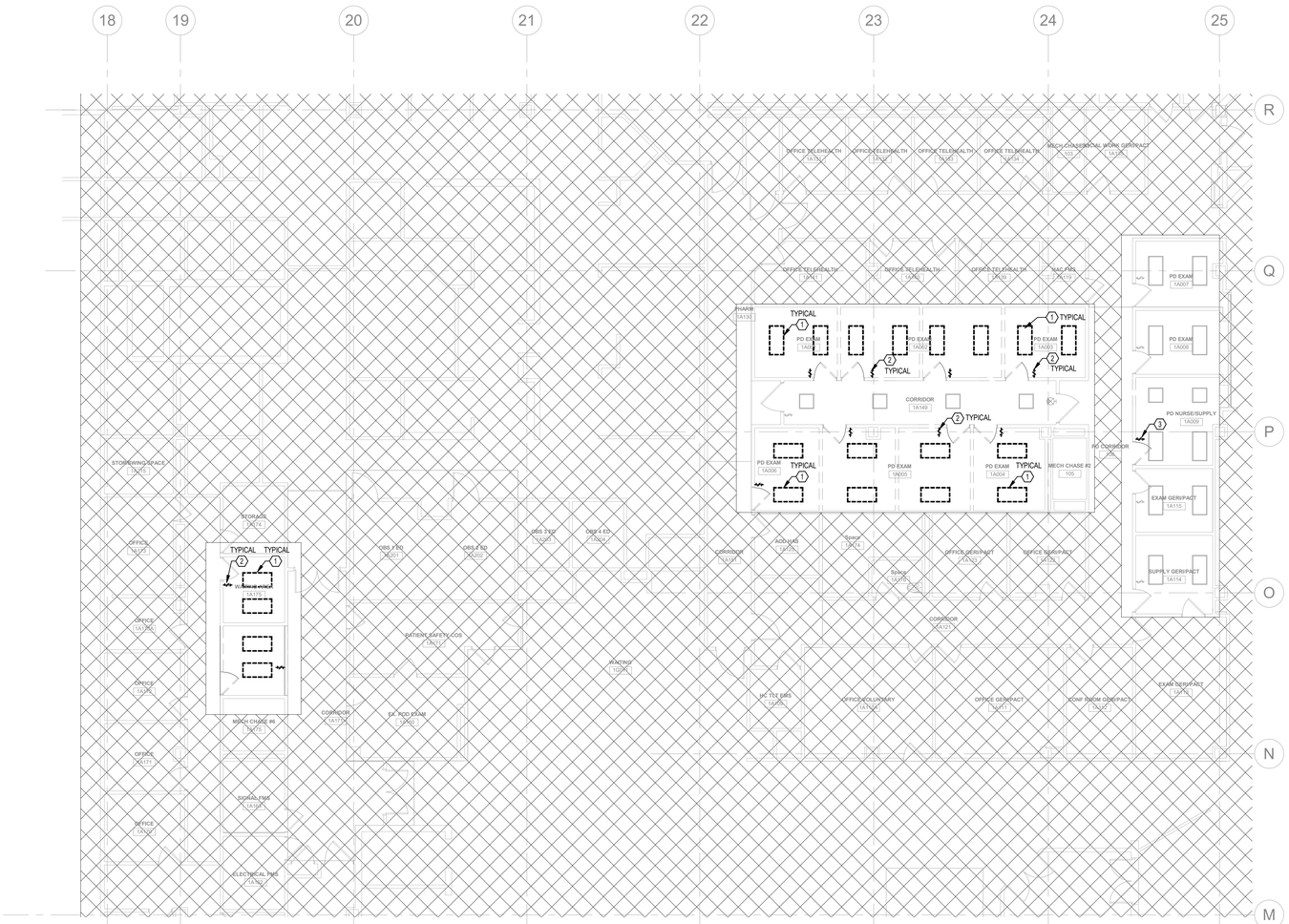
1. COORDINATE EXTENTS OF DEMOLITION WITH ARCHITECTURAL DRAWINGS.

CODED NOTES:

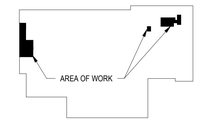
1. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE ON BRANCH CIRCUIT. IF NO OTHER DEVICES REMAIN ON CIRCUIT, REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. SWITCH BREAKER TO 'OFF' POSITION AND LABEL BREAKER AS 'SPARE' ON PANEL SCHEDULE. CONTRACTOR SHALL VERIFY THAT EXISTING TO REMAIN DEVICES REMAIN OPERATIONAL.
2. DISCONNECT AND REMOVE EXISTING LIGHTING CONTROL DEVICE. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE ON BRANCH CIRCUIT. IF NO OTHER DEVICES REMAIN ON CIRCUIT, REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. SWITCH BREAKER TO 'OFF' POSITION AND LABEL BREAKER AS 'SPARE' ON PANEL SCHEDULE. CONTRACTOR SHALL VERIFY THAT EXISTING TO REMAIN DEVICES REMAIN OPERATIONAL.
3. EXISTING LIGHTING CONTROL DEVICE TO BE RELOCATED TO NEW LOCATION. REFER TO NEW WORK PLAN FOR NEW LOCATION. CONTRACTOR TO EXTEND RACEWAY AND CONDUCTORS AS REQUIRED. FIELD VERIFY EXACT CIRCUIT PRIOR TO BEGINNING WORK.



1 FIRST FLOOR PLAN - LIGHTING - DEMOLITION - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - LIGHTING - DEMOLITION - PODIATRY
1/8" = 1'-0"



KEY PLAN

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1/8" = 1'-0"

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Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title: FLOOR PLAN - LIGHTING - DEMO Approved:	Phase: FINAL BID DOCUMENTS FULLY SPRINKLERED
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS Location: ASHEVILLE VAMC Issue Date: 03/12/2026 · Checked: TDB · Drawn: WWS	Project Number VA Project No. 637-22-102 AG Project No. 0123039 Building Number Drawing Number: ED101	

Revisions | Date

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DRAWING NOTES:

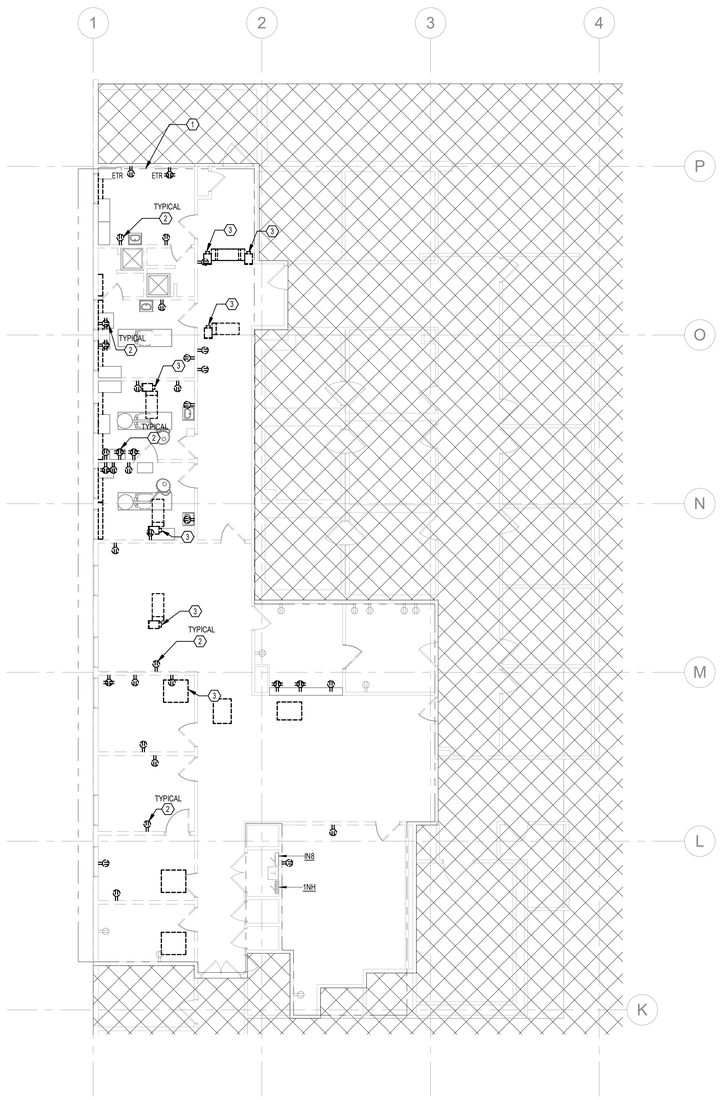
1. REFER TO ARCHITECTURAL PLANS FOR EXTENTS OF DEMOLITION.
2. REFER TO SHEET EP101 FOR LOCATIONS OF ELECTRICAL PANELS SERVING THIS AREA.

CODED NOTES:

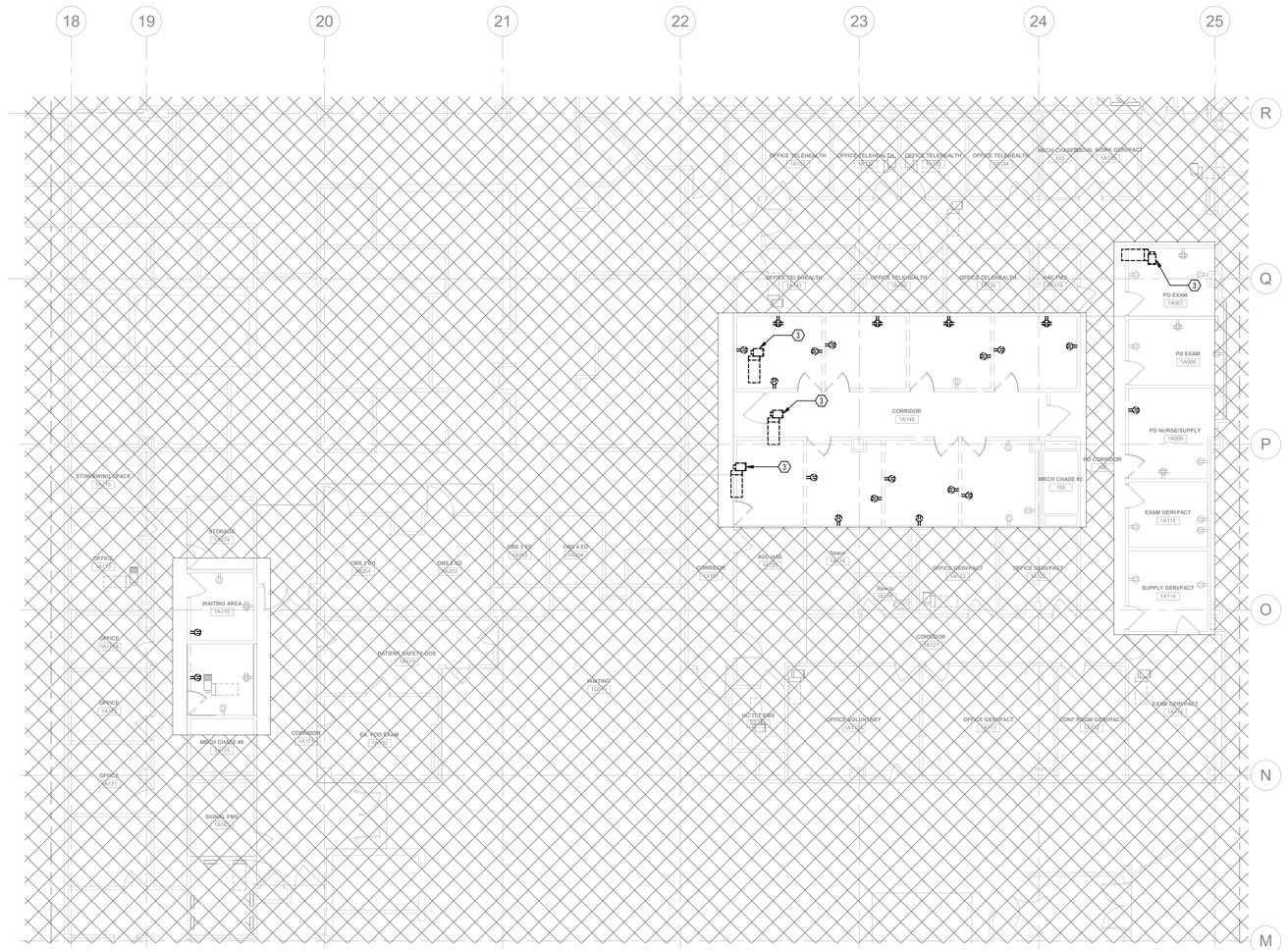
(1) ALL ELECTRICAL DEVICES WITHIN AREA SHALL BE REMOVED BACK TO SOURCE PANEL UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS.

(2) DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO NEXT DEVICE ON BRANCH CIRCUIT. IF NO OTHER DEVICES REMAIN ON CIRCUIT, REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE. SWITCH BREAKER TO 'OFF' POSITION AND LABEL BREAKER AS 'SPARE' ON PANEL SCHEDULE. CONTRACTOR SHALL VERIFY THAT EXISTING TO REMAIN DEVICES REMAIN OPERATIONAL.

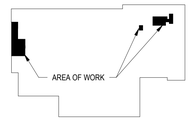
(3) EXISTING TERMINAL UNIT TO BE RELOCATED. REMOVE RACEWAY AND CONDUCTORS BACK TO PREVIOUS JUNCTION BOX ON CIRCUIT. PRESERVE FOR REINSTALLATION IN NEW WORK. REFER TO SHEET EP101 FOR NEW LOCATION.



1 FIRST FLOOR PLAN - ELECTRICAL EQUIPMENT - DEMOLITION - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - ELECTRICAL EQUIPMENT - DEMOLITION - PODIATRY
1/8" = 1'-0"



KEY PLAN

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1/8" = 1'-0"

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Drawing Title: FLOOR PLAN - ELECTRICAL EQUIPMENT - DEMO	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number
		Issue Date: 03/12/2026 · Checked: TDB · Drawn: WWS	Drawing Number: ED102

Revisions | Date

VA FORM 08 - 6231

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DRAWING NOTES:

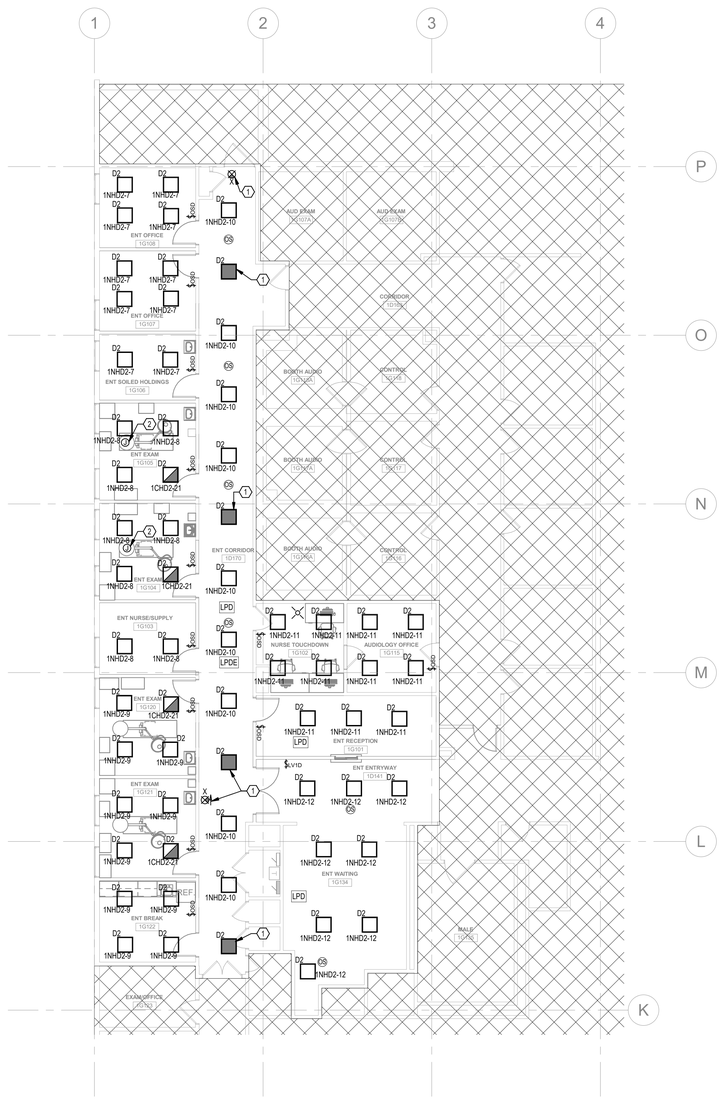
1. REFER TO SHEET EP101 FOR LOCATIONS OF ELECTRICAL PANELS SERVING THIS AREA.

CODED NOTES:

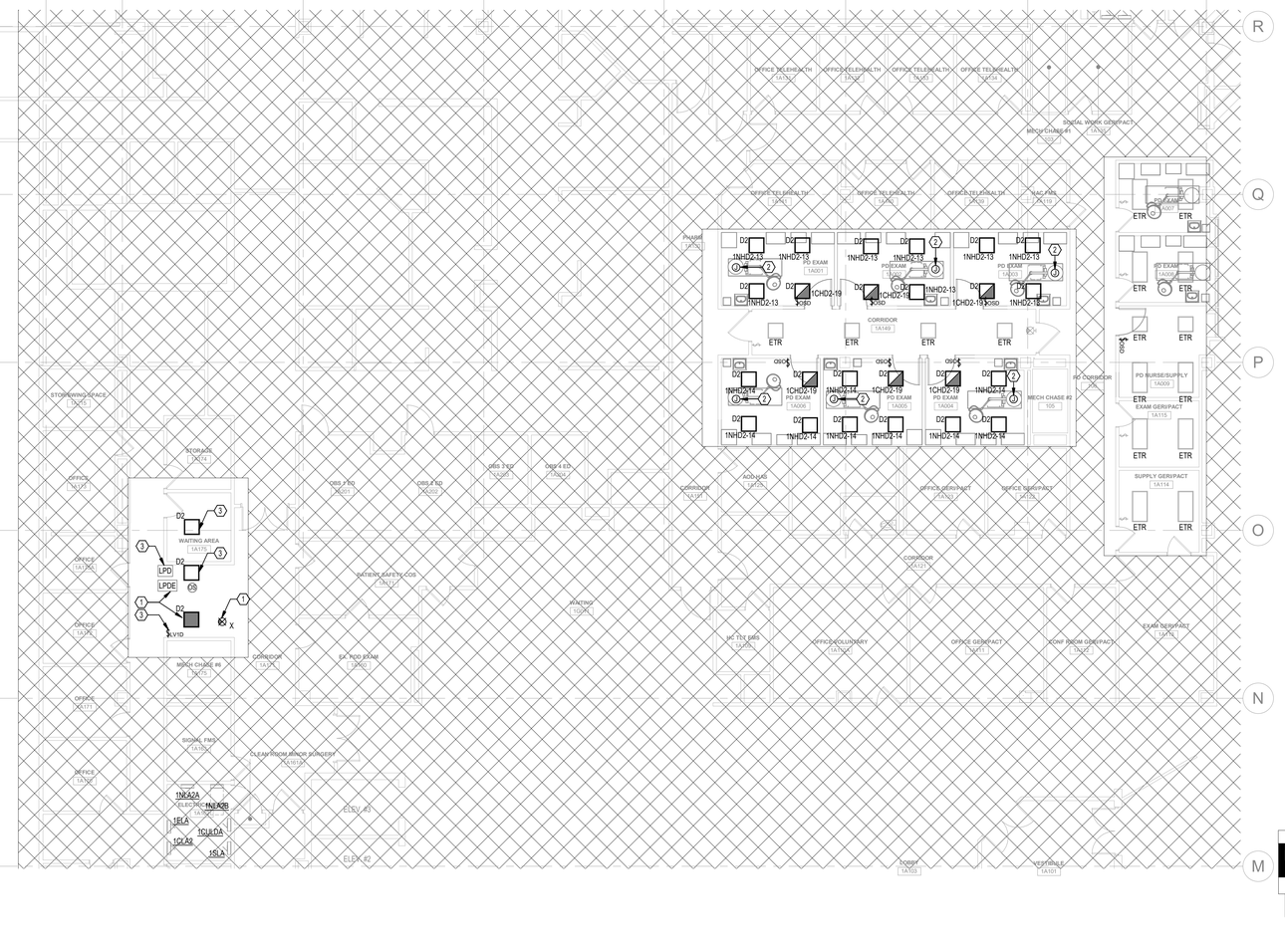
(1) CONNECT NEW LPDE TO LIFE SAFETY CIRCUIT SERVING THIS AREA.

(2) JUNCTION BOX ABOVE CEILING FOR CEILING MOUNTED EXAM LIGHT FIXTURE. CONNECT EXAM LIGHT FIXTURE TO CIRCUIT SERVING THIS ROOM.

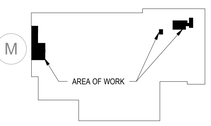
(3) CONNECT NEW FIXTURE TO EXISTING CIRCUIT SERVING THIS AREA. CONTRACTOR TO FIELD VERIFY EXACT CIRCUIT PRIOR TO BEGINNING WORK.



1 FIRST FLOOR PLAN - LIGHTING - NEW WORK - ENT
1/8" = 1'-0"



2 FIRST FLOOR PLAN - LIGHTING - NEW WORK - PODIATRY
1/8" = 1'-0"



KEY PLAN

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0 4' 8' 16' 24'

1/8" = 1'-0"

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Drawing Title: FLOOR PLAN - LIGHTING - NEW WORK	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number
		Issue Date: 03/12/2026; Checked: TDB; Drawn: WWS	Drawing Number: EL101

Revisions | Date

VA FORM 08 - 6231

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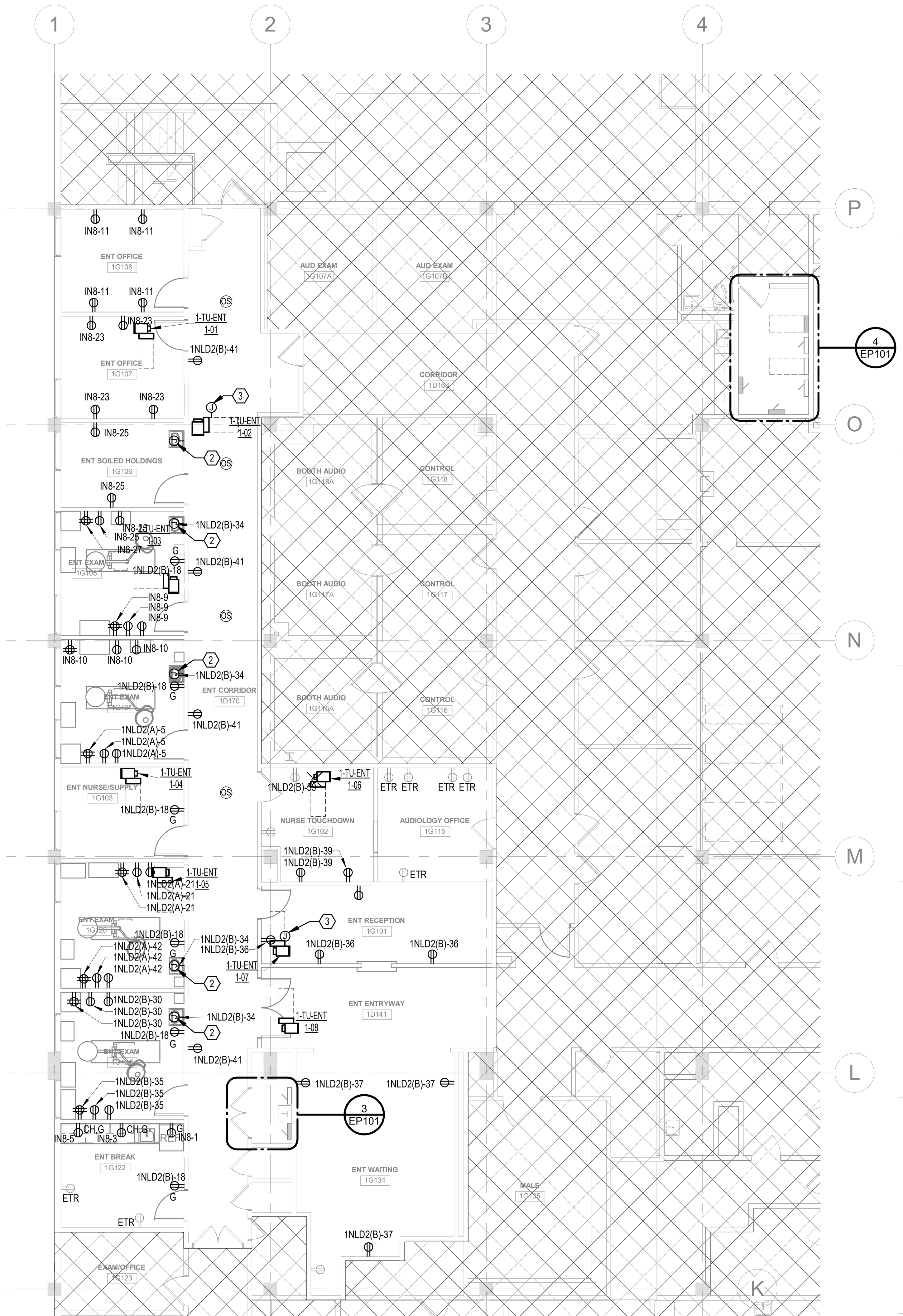
DRAWING NOTES:

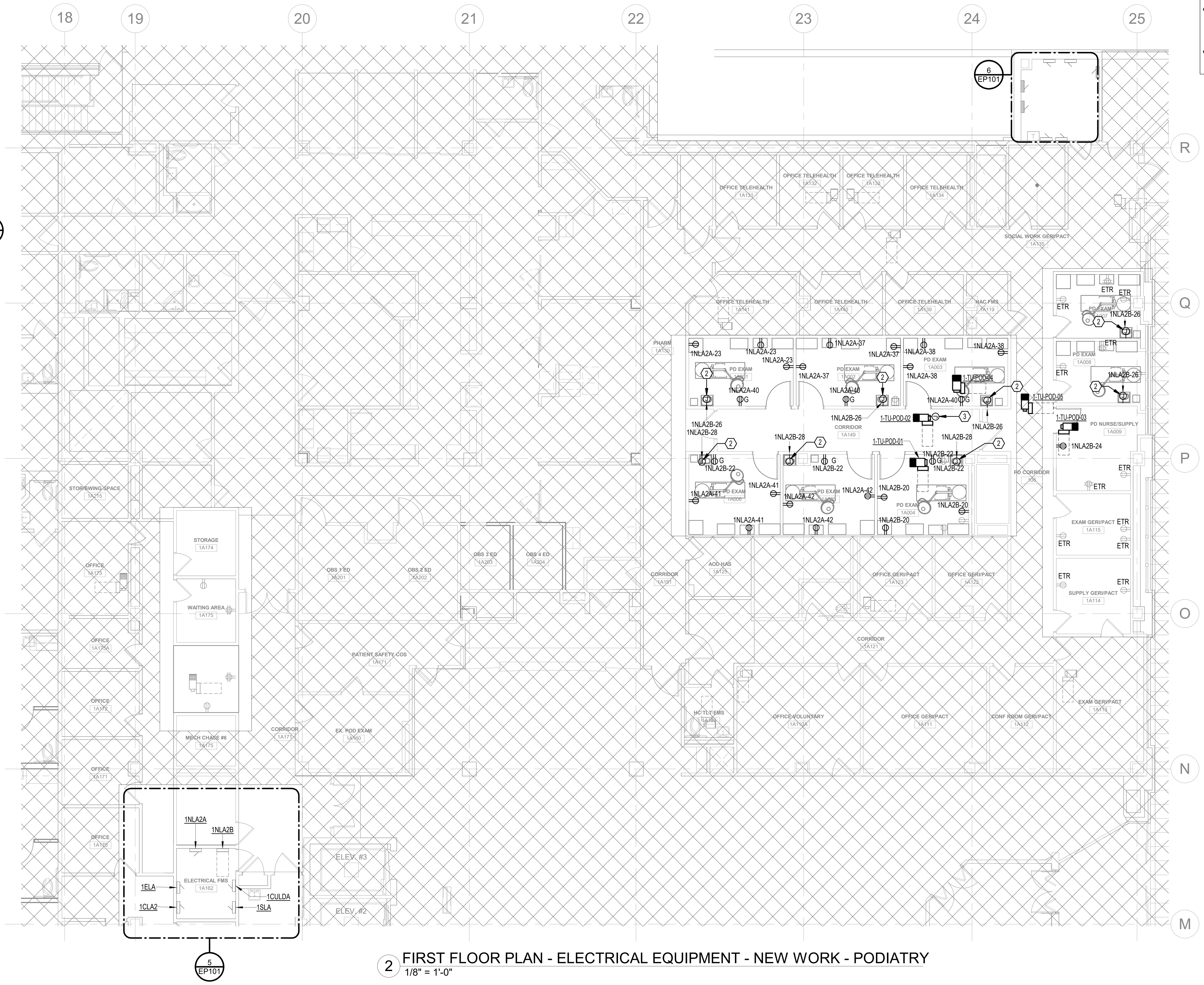
1. REFER TO ONE-LINE DIAGRAM ON SHEET E-601 FOR MORE ELECTRICAL PANEL INFORMATION.

CODED NOTES:

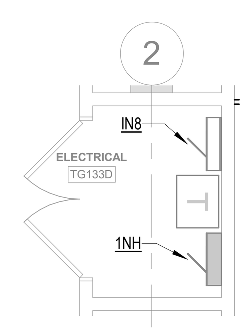
1. NEW LOCATION OF EXISTING TERMINAL UNIT. EXTEND ASSOCIATED RACEWAY AND CONDUCTORS TO NEW LOCATION INDICATED. COORDINATE CONNECTION WITH MECHANICAL CONTRACTOR.
2. TRANSFORMER MOUNTED ABOVE CEILING SHALL POWER SENSOR OPERATED PLUMBING FIXTURES IN TOILET/SHOWER ROOM. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX AND POWER FOR TRANSFORMER, PLUMBING CONTRACTOR TO PROVIDE TRANSFORMER AND LOW-VOLTAGE WIRING TO SENSORS.
3. PROVIDE PSH500A FUNCTIONAL DEVICE FOR TERMINAL UNIT CONTROL. PROVIDE CONDUIT AND LOW-VOLTAGE WIRING TO ALL TERMINAL UNITS.



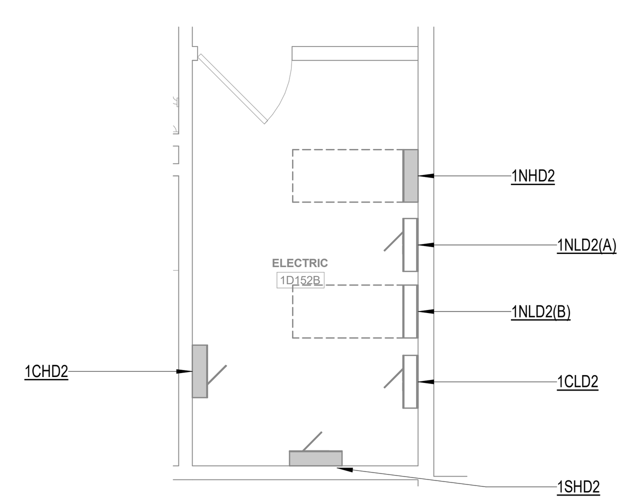
1 FIRST FLOOR PLAN - ELECTRICAL EQUIPMENT - NEW WORK - ENT
1/8" = 1'-0"



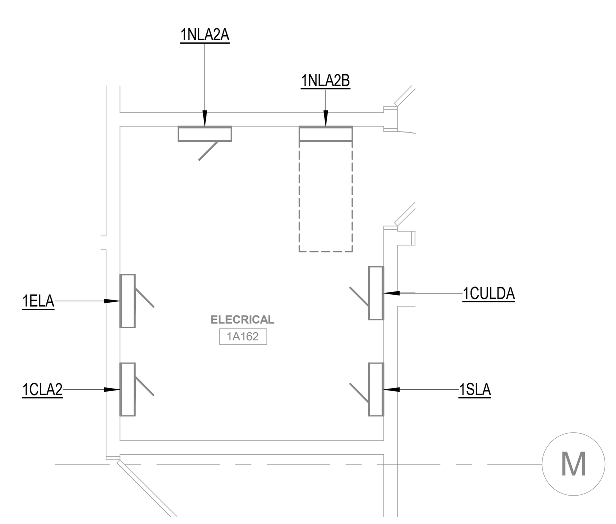
2 FIRST FLOOR PLAN - ELECTRICAL EQUIPMENT - NEW WORK - PODIATRY
1/8" = 1'-0"



3 ELECTRICAL ROOM TG133D
1/4" = 1'-0"



4 ELECTRICAL ROOM 1D152B
1/4" = 1'-0"



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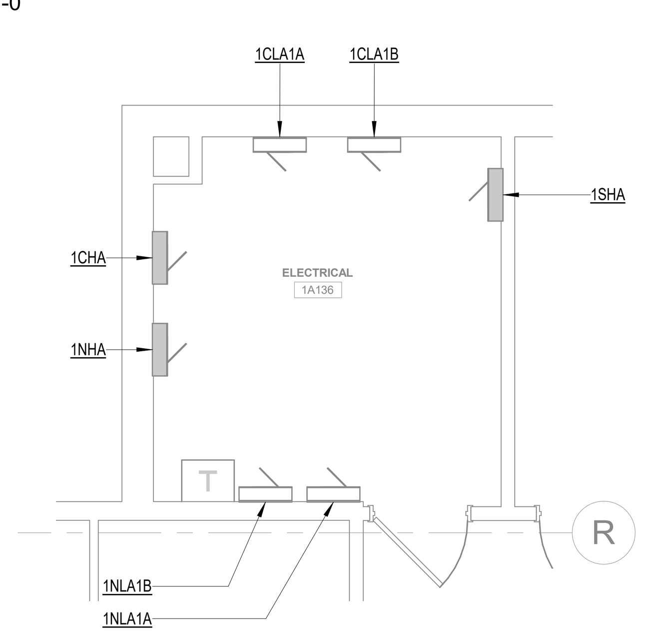

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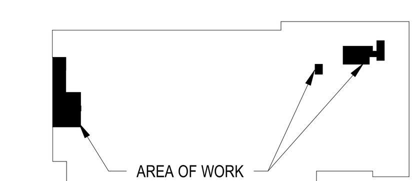
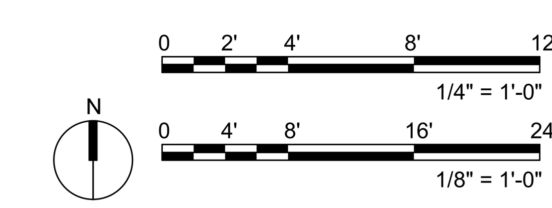


KEY PLAN



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NORTH CAROLINA PROFESSIONAL SEAL 056271 ENGINEER WESLEY W SHUMATE

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	Phase	Project Title	Project Number
FLOOR PLAN - ELECTRICAL EQUIPMENT - NEW WORK	FINAL BID DOCUMENTS	RENOVATE SPACE FOR PATIENT IMPROVEMENTS	VA Project No. 637-22-102 AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number:
		Issue Date: 03/12/2026 — Checked: TDB — Drawn: WWS	Drawing Number: EP101

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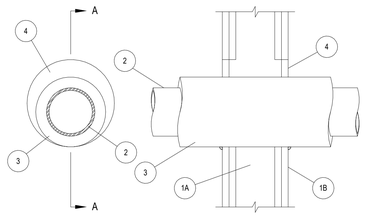
SPECIFIED TECHNOLOGIES INC - SPECSEAL LCI SEALANT

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL CERTIFICATION.



Section A-A

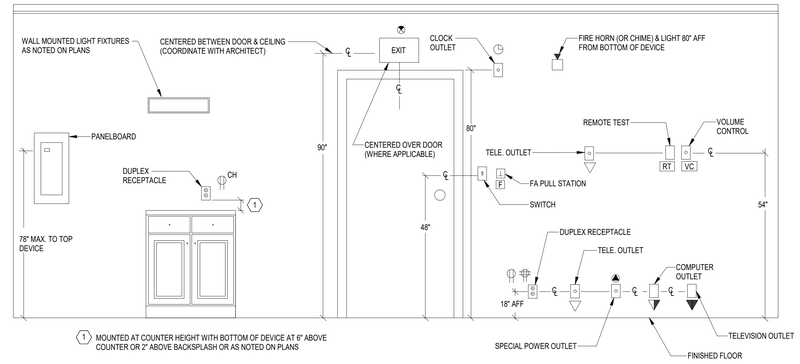
SYSTEM NO. W-L-5122

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   - A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. OC.
   - B. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 7-1/2 IN.

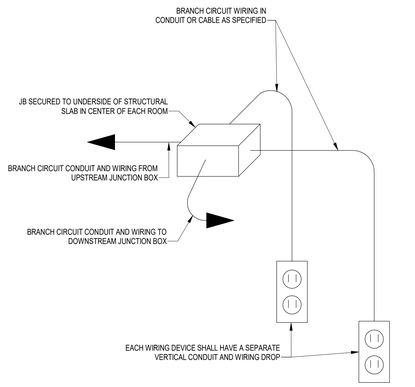
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANT - ONE METALLIC PIPE OR TUBE TO BE INSTALLED ECCENTRICALLY OR CONCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES AND TUBES MAY BE USED:
   - A. STEEL PIPE - NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
   - B. IRON PIPE - NOM 4 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   - C. COPPER PIPE - NOM 2 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   - D. COPPER TUBE - NOM 2 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
3. TUBE INSULATION - PLASTICS# - NOM 3/4 IN. THICK ACRYLONITRILE BUTADIENE/POLYVINYL CHLORIDE (AB/PVC) FLEXIBLE FOAM FURNISHED IN THE FORM OF TUBING. ANNULAR SPACE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-1/2 IN.

   SEE PLASTICS (QMFZ2) CATEGORY IN THE PLASTICS RECOGNIZED COMPONENT DIRECTORY FOR NAMES OF MANUFACTURERS. ANY RECOGNIZED COMPONENT TUBE INSULATION MEETING THE ABOVE SPECIFICATIONS AND HAVING A UL 94 FLAMMABILITY CLASSIFICATION OF 94-5VA MAY BE USED.
4. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY. AT POINT CONTACT LOCATION, MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL APPLIED AT INSULATED METALLIC PIPE/GYPSUM BOARD INTERFACE ON BOTH SURFACES OF WALL.

1 CONDUIT PENETRATION OF FIREWALL
N.T.S.



2 TYPICAL MOUNTING HEIGHTS
N.T.S.



NOTE: CIRCUIT CONTINUITY TO BE MAINTAINED THROUGH CEILING MOUNTED JUNCTION BOX

3 TYPICAL WIRING DEVICE INSTALLATION DETAIL
N.T.S.

IDENTIFICATION OF GROUNDED CONUCTORS SHALL BE PERFORMED BASED ON NEC ARTICLE 200.

VOLTAGE 208Y/120V	
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

VOLTAGE 480Y/277V	
PHASE A	BROWN
PHASE B	ORANGE
PHASE C	YELLOW
NEUTRAL	GREY
GROUND	GREEN

4 WIRE COLOR TABLE
N.T.S.

CONDUCTORS:

1. ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS IF NO SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG, EXCEPT AS MODIFIED FOR VOLTAGE DROP BY THE TABLE BELOW. REFER TO BRANCH CIRCUIT VOLTAGE DROP TABLES BELOW. BRANCH CIRCUIT WIRING SHALL BE SIZED TO LIMIT THE VOLTAGE DROP TO 3% OF NOMINAL VOLTAGE OR LESS.

   120V (BASED ON 1500W LOAD) MIN. CONDUCTOR SIZE

CIRCUIT LENGTH	INCREASE FOR VOLTAGE DROP
0 FT - 70 FT	#12 AWG
71 FT - 115 FT	#10 AWG
116 FT - 180 FT	#8 AWG

   181 FEET AND LONGER: SUBMIT WIRE SIZE TO ENGINEER OF RECORD FOR WRITTEN APPROVAL.

   277V (BASED ON 4156W LOAD) MIN. CONDUCTOR SIZE

CIRCUIT LENGTH	INCREASE FOR VOLTAGE DROP
0 FT - 70 FT	#12 AWG
71 FT - 115 FT	#10 AWG
116 FT - 180 FT	#8 AWG

5 CONDUCTORS DETAIL
N.T.S.

Revisions	Date

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL DETAILS
Phase	FINAL BID DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	VA Project No. 637-22-102; AG Project No. 0123039
Building Number	
Location	ASHEVILLE VAMC
Issue Date	03/12/2026
Checked	TDB
Drawn	WWS
Drawing Number	E-501

VA FORM 08 - 6231

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	VA	LAMP TYPE	FIXTURE LUMENS	FIXTURE COLOR TEMP (K)	DRIVER/BALLAST	COMMENTS
DI	2x2 LED TROFFER	LITHONIA	HSTL 2X2 G 277 ALM 4000LM 35K 80CRI	277 V	22 VA	LED	4000	3500K	0-10V DIMMING	
X	RECESSED EDGE LIT LED EXIT SIGN, CEILING MOUNTED, RED LETTERS. CLEAR BACKGROUND AND SINGLE OR DOUBLE FACE	LITHONIA	LQM-S-RG-MVOLT-M6	277 V	10 VA	LED	N/A	N/A	N/A	

NOTES: (APPLICABLE TO LUMINAIRE SCHEDULE ONLY)

1. LAMP TYPES ARE INDICATED BY INDUSTRY GENERIC DESIGNATIONS; SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
2. CATALOG NUMBERS FOR LUMINAIRES INDICATE THE TYPE AND QUALITY OF THE LUMINAIRE TO BE PROVIDED BY THE CONTRACTOR AND ARE GENERAL IN NATURE. THE CATALOG NUMBERS ARE NOT INTENDED TO INDICATE AN ACTUAL ORDER MODEL NUMBER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LUMINAIRES WITH THE TYPE OF DRIVER, LENS OR DIFFUSER, AND CONSTRUCTION FEATURES AS INDICATED IN THE SPECIFICATIONS.
3. COORDINATE CONTROL COMPATIBILITY BETWEEN DRIVER TYPES FOR ALL DIMMED LUMINAIRES WITH MANUFACTURER AND MODEL OF DIMMING CONTROL DEVICES.
4. PROVIDE EXIT SIGNS WITH SINGLE FACE OR DOUBLE FACE AND WITH OR WITHOUT CHEVRONS AS INDICATED ON THE DRAWINGS. PROVIDE RED OR GREEN LETTERING AS REQUIRED BY AHJ.
5. ALL MOUNTING HEIGHTS SHALL BE AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY ARCHITECT OR ENGINEER. MOUNTING HEIGHTS OF WALL MOUNTED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE LUMINAIRE. MOUNTING HEIGHTS OF CEILING SUSPENDED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE.

DRAWING NOTES:

1. ALL EQUIPMENT AND FEEDERS SHOWN ON ONE-LINE DIAGRAM ARE EXISTING TO REMAIN.

BRANCH PANEL: 1CHD2

LOCATION: 1D152B
SUPPLY FROM: Type Name
MOUNTING: Surface
ENCLOSURE: Type 1
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
A.I.C. RATING:
MAINS TYPE: MCB
MAINS RATING: 600 A
SERVICE ENTRANCE: No

GENERAL NOTES:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A		B		C		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1					0 VA	0 VA					1	20 A		LIGHTING AUDIO	2
3	EXISTING		20 A	3			0 VA	0 VA			1	20 A		LIGHTING XRAY	4
5									0 VA	0 VA	1	20 A		LIGHTING XRAY	6
7					0 VA	0 VA									8
9	XRAY EQUIPMENT ROOM D133, D134 CT SCANNER #2		100 A	3			0 VA	0 VA			3	20 A		CT #2 TOSHIBA	10
11									0 VA	0 VA					12
13	Space		--	1	--	--					1	--		Space	14
15	Space		--	1			--	--			1	--		Space	16
17	Space		--	1					--	--	1	--		Space	18
19	Lighting Pd Exam 1a003	1	20 A	1	132 VA	0 VA									20
21	Lighting Ent Exam 1g104	1	20 A	1			88 VA	0 VA			3	250 A		XRAY EQUIPMENT ROOM 10166 ROOM 4	22
23	Space		--	1					--	0 VA					24
25					0 VA	0 VA									26
27	EXAY EQUIPMENT ROOM 2		250 A	3			0 VA	0 VA			3	250 A		XRAY EQUIPMENT ROOM 1D159 ROOM 3	28
29									0 VA	0 VA					30
31					0 VA	0 VA									32
33	1C119 UROLOGY		250 A	3			0 VA	0 VA			3	125 A		XRAY EQUIPMENT ROOM 1	34
35									0 VA	0 VA					36
37															38
39															40
41															42
			TOTAL....		132 VA		88 VA		0 VA						
			TOTAL....		1 A		0 A		0 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	220 VA	100.00%	220 VA		
				TOTAL CONNECTED LOAD:	220 VA
				TOTAL EST. DEMAND:	220 VA
				TOTAL CONNECTED...	0 A
				TOTAL EST. DEMAND...	0 A

BRANCH CIRCUIT NOTES:
ALL CIRCUITS EXISTING TO REMAIN UNLESS OTHERWISE NOTED
1. PROVIDE NEW CIRCUIT BREAKER AND CONNECT NEW CIRCUIT.

BRANCH PANEL: IN8

LOCATION: DS-1
SUPPLY FROM: 1NH
MOUNTING: Surface
ENCLOSURE: Type 1
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
A.I.C. RATING: 10kA
MAINS TYPE: MLO
MAINS RATING: 225 A
SERVICE ENTRANCE: No

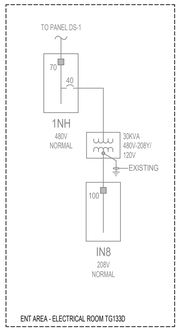
GENERAL NOTES:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A		B		C		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	REC ENT BREAK 1G122		20 A	1	200 VA	0 VA					1	20 A		SPARE	2
3	REC ENT BREAK 1G100		20 A	1			200 VA	0 VA			1	20 A		SPARE	4
5	REC ENT BREAK 1G122		20 A	1					200 VA	0 VA	1	20 A		SPARE	6
7	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	8
9	REC ENT Exam 1G105		20 A	1			760 VA	760 VA			1	20 A		REC ENT EXAM 1G104	10
11	REC ENT OFFICE 1G108		20 A	1					800 VA	0 VA	1	20 A		SPARE	12
13	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	14
15	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	16
17	SPARE		30 A	2					0 VA	0 VA	1	20 A		SPARE	18
19					0 VA	0 VA									20
21	SPARE		20 A	1			0 VA	0 VA			2	40 A		SPARE	22
23	REC ENT OFFICE 1G107		20 A	1					800 VA	0 VA	1	20 A		SPARE	24
25	REC 1G105, 1G106		20 A	1	800 VA	0 VA					2	20 A		SPARE	26
27	REC 1G105, 1A011		20 A	1			360 VA	0 VA							28
29	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	30
31	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	32
33	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	34
35	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	36
37	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	38
39	SPARE		30 A	2			0 VA	0 VA			1	20 A		SPARE	40
41									0 VA	0 VA	1	30 A		SPARE	42
			TOTAL....		1000 VA		2080 VA		1800 VA						
			TOTAL....		8 A		18 A		16 A						

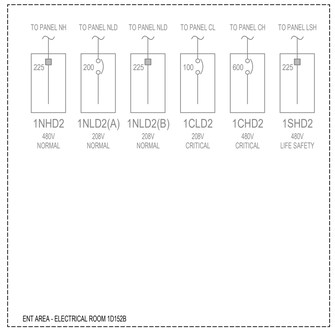
LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Receptacle	4880 VA	100.00%	4880 VA		
				TOTAL CONNECTED LOAD:	4880 VA
				TOTAL EST. DEMAND:	4880 VA
				TOTAL CONNECTED...	14 A
				TOTAL EST. DEMAND...	14 A

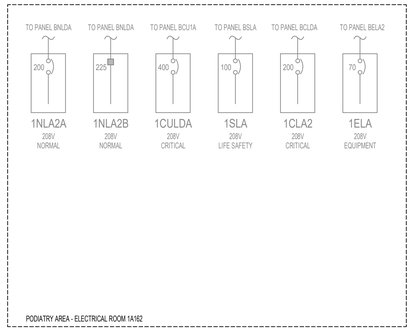
BRANCH CIRCUIT NOTES:



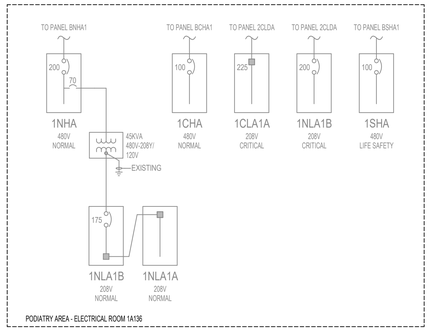
ENT AREA - ELECTRICAL ROOM TG133D



ENT AREA - ELECTRICAL ROOM 1D152B



PODIATRY AREA - ELECTRICAL ROOM 1A162



PODIATRY AREA - ELECTRICAL ROOM 1A136

1 PARTIAL ELECTRICAL ONE-LINE DIAGRAMS
N.T.S

	TYPICAL SPACE TYPE	TOGGLE SWITCH(ES)	CEILING/WALL MOUNTED OCCUPANCY SENSOR(S)	WALL BOX OCCUPANCY SENSOR(S) WITH SINGLE OUTPUT RELAY	WALL BOX OCCUPANCY SENSOR(S) WITH 0-10V DIMMING	LUMINAIRE WITH BALT-IN OCCUPANCY SENSOR	DIGITAL SWITCH(ES)	CEILING/WALL MOUNTED OCCUPANCY SENSOR(S)	INDOOR PHOTOSENSOR(S)	OUTDOOR PHOTOCELL(S)	ASTRONOMICAL TIMECLOCK	FASCA	SWITCHING	STEP-DIMMING	FULL RANGE DIMMING	CENTRALIZED DROADMINITRIM LCCT CONTROL	VACANCY SENSOR TIMEOUT DELAY (MINIMUTES)	LIGHTS MANUAL ON	LIGHTS AUTOMATIC ON TO 100% LIGHT LEVEL UPON OCCUPANCY	LIGHTS AUTOMATIC ON TO 50% LIGHT LEVEL UPON OCCUPANCY	TIMECLOCK SCHEDULED "ON" TIME	TIMECLOCK SCHEDULED "OFF" TIME	OCC. SENSOR OVERRIDE TIMECLOCK DURING "OFF" HOURS	DAYLIGHTING/SWITCHING LIGHTS TO MAINTAIN MINIMUM 35FC AT 30" AFF	NOTES
1	OFFICE	-	-	-	X	-	-	-	-	-	-	-	-	X	-	20	X	-	-	-	-	-	-	-	-
2	RECEPTION	-	-	-	X	-	-	-	-	-	-	-	-	X	-	20	X	-	-	-	-	-	-	-	-
3	CORRIDOR	-	-	-	-	-	-	X	-	-	-	-	-	X	-	20	-	X	-	-	-	-	-	-	-
4	WAITING	-	-	-	-	-	-	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	-	-	-

2 LIGHTING CONTROL MATRIX
N.T.S

Revisions	Date

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NORTH CAROLINA PROFESSIONAL SEAL 056274 ENGINEER WESLEY W SHUMATE

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DIAGRAMS
Phase: FINAL BID DOCUMENTS
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number: VA Project No. 637-22-102; AG Project No. 0123039
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Location: ASHEVILLE VAMC
Issue Date: 03/12/2026
Checked: TDB
Drawn: WWS
Drawing Number: E-601

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VA FORM 08 - 6231

BRANCH PANEL: 1NHD2

LOCATION: 1D152B
SUPPLY FROM: NH
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A
SERVICE ENTRANCE: No

GENERAL NOTES:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A	B	C	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	LIGHTING	1	20 A	1	0 VA			1	20 A	1	LIGHTING	2
3	LIGHTING	1	20 A	1		0 VA	0 VA	1	20 A	1	LIGHTING	4
5	LIGHTING	1	20 A	1			0 VA	0 VA	1	20 A	1	LIGHTING	6
7	Lighting Ent Office 1g108	2	20 A	1	220 VA	176 VA			1	20 A	2	Lighting Ent Exam 1g105	8
9	Lighting Ent Exam 1g102	2	20 A	1		220 VA	198 VA		1	20 A	2	Lighting Ent Corridor 1a011	10
11	Lighting Nurse Touchdown 1g111	2	20 A	1			242 VA	176 VA	1	20 A	2	Lighting Ent Entryway 1a010	12
13	Lighting Pd Exam 1a003	2	20 A	1	198 VA	198 VA			1	20 A	2	Lighting Pd Exam 1a004	14
15	SPARE	1	20 A	1		0 VA	0 VA		1	20 A	1	SPARE	16
17	SPARE	1	20 A	1			0 VA	0 VA	1	20 A	1	SPARE	18
19	SPARE	1	20 A	1	0 VA	0 VA			1	20 A	1	SPARE	20
21	SPARE	1	20 A	1		0 VA	0 VA		1	20 A	1	SPARE	22
23	SPARE	1	20 A	1			0 VA	0 VA	1	20 A	1	SPARE	24
25	SPARE	1	20 A	1	0 VA	0 VA			1	20 A	1	SPARE	26
27	SPARE	1	20 A	1		0 VA	0 VA		1	20 A	1	SPARE	28
29	SPARE	1	20 A	1			0 VA	0 VA	1	20 A	1	SPARE	30
31	SPARE	1	20 A	1	0 VA	0 VA			1	20 A	1	SPARE	32
33	SPARE	1	20 A	1		0 VA	0 VA		1	20 A	1	SPARE	34
35	SPACE	1	--	1			--	--	1	--	1	SPACE	36
37	SPACE	1	--	1	--	--			1	--	1	SPACE	38
39	SPACE	1	--	1		--	--		1	--	1	SPACE	40
41	SPACE	1	--	1			--	--	1	--	1	SPACE	42
			TOTAL...		792 VA	418 VA	418 VA						
			TOTAL...		3 A	2 A	2 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	1628 VA	100.00%	1628 VA		
Other	0 VA	0.00%	0 VA	**TOTAL CONNECTED LOAD:**	1628 VA
				TOTAL EST. DEMAND:	1628 VA
				TOTAL CONNECTED...	2 A
				TOTAL EST. DEMAND...	2 A

BRANCH CIRCUIT NOTES:
1. EXISTING TO REMAIN.
2. CONNECT NEW CIRCUIT TO EXISTING SPARE.
LOAD SHOWN IS CALCULATED NEW LOAD ONLY

BRANCH PANEL: 1NHA

LOCATION: 1A136
SUPPLY FROM: BNHA1
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 25kA
MAINS TYPE: MCB
MAINS RATING: 200 A
SERVICE ENTRANCE: No

GENERAL NOTES:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A	B	C	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	LIGHTING CORR WEST		20 A	1	0 VA			1	20 A		CANOPY LIGHTING WEST	2
3	LIGHTING ER OFFICES		20 A	1		0 VA	0 VA	1	20 A		CANOPY LIGHTING WEST	4
5	LIGHTING CORR EAST		20 A	1			0 VA	0 VA	1	20 A		CANOPY LIGHTING WEST	6
7	LIGHTING WEST OFFICES		20 A	1	0 VA	0 VA			1	20 A		CANOPY LIGHTING WEST	8
9	LIGHTING X-RAY & OFFICES		20 A	1		0 VA	0 VA		1	20 A		SPARE	10
11	LIGHTING EAST OFFICES		20 A	1			0 VA	0 VA	1	20 A		SPARE	12
13	LIGHTING WEST OFFICES		20 A	1	0 VA	0 VA							14
15	OBS/LIGHTING A104, A103, A105		20 A	1		0 VA	0 VA		3	30 A		SITE LIGHTING	16
17	OBS/LIGHTING A104, A107, A108, A113,...		20 A	1			0 VA	0 VA					18
19	SPARE		20 A	1	0 VA	0 VA							20
21	Spare		20 A	1		0 VA	0 VA		3	30 A		SITE LIGHTING	22
23	LIGHTING EAST CORR A101, A102, A019,...		20 A	1			0 VA	0 VA					24
25	SPARE		--	1	--	0 VA			1	20 A		SPARE	26
27	SPARE		--	1		0 VA			1	20 A		SPARE	28
29	SPARE		--	1			--	0 VA	1	20 A		SPARE	30
31	SPARE		--	1	--	0 VA			1	20 A		SPARE	32
33	SPARE		--	1		--	0 VA		1	20 A		SPARE	34
35	SPARE		--	1			--	0 VA	1	20 A		SPARE	36
37	SPACE		--	1	--	0 VA			3	70 A		PANEL 1NLA1 VIA T1NA	38
39	SPACE		--	1		--	0 VA						40
41	SPACE		--	1			--	0 VA	1	25 A		ISO PANEL 1N1	42
			TOTAL...		0 VA	0 VA	0 VA						
			TOTAL...		0 A	0 A	0 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONNECTED...	0 A
				TOTAL EST. DEMAND...	0 A

BRANCH CIRCUIT NOTES:

BRANCH PANEL: 1NLA2A

LOCATION: 1A162
SUPPLY FROM: BNLDA
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 200 A
SERVICE ENTRANCE: No

GENERAL NOTES:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A	B	C	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	REC 1A160		20 A	1	0 VA	0 VA		1	20 A		REC CORR	2
3	REC 1A156		20 A	1		0 VA	0 VA	1	20 A		REC 1A167	4
5	REC 1A155		20 A	1			0 VA	0 VA	1	20 A		REC 1A166	6
7	REC 1A108A		20 A	1	0 VA	0 VA			1	20 A		REC 1A165	8
9	REC 1A127		20 A	1		0 VA	0 VA		1	20 A		REC 1A175	10
11	REC 1A125		20 A	1			0 VA	0 VA	1	20 A		REC 1A170	12
13	REC 1A164		20 A	1	0 VA	0 VA			1	20 A		REC 1A169	14
15	REC 1A128		20 A	1		0 VA	0 VA		1	20 A		REC 1A171	16
17	REC 1A129		20 A	1			0 VA	0 VA	1	20 A		REC 1A168	18
19	REC 1A184		20 A	1	0 VA	0 VA			1	20 A		REC CORR	20
21	REC 1A152		20 A	1		0 VA	0 VA		1	20 A		REC CORR	22
23	Receptacle Pd Exam 1a001		20 A	1			600 VA	0 VA	1	20 A		WATER COOLER 109	24
25	REC 1B102		20 A	1	0 VA	0 VA			1	20 A		WATER COOLER 109	26
27	REC 1B165		20 A	1		0 VA	0 VA		1	20 A		REC 1B176	28
29	REC 1B166		20 A	1			0 VA	0 VA	1	20 A		REC 1B173	30
31	REC 1B175		20 A	1	0 VA	0 VA			1	20 A		REC 1B161,162	32
33	REC 1B168		20 A	1		0 VA	0 VA		1	20 A		REC CORR	34
35	REC 1B165		20 A	1			0 VA	0 VA	1	20 A		EXISTING CIRCUIT	36
37	Receptacle Room 1a001, 1a002		20 A	1	600 VA	600 VA			1	20 A		Receptacle Room 1a002, 1a003	38
39	COPIER 1B102		20 A	1		0 VA	600 VA		1	20 A		Receptacle Pd Exam 1a003	40
41	Receptacle Pd Exam 1a006		20 A	1			600 VA	600 VA	1	20 A		Receptacle Pd Exam 1a005	42
			TOTAL...		1200 VA	600 VA	1800 VA						
			TOTAL...		11 A	5 A	16 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Receptacle	3600 VA	100.00%	3600 VA		
				TOTAL CONNECTED LOAD:	3600 VA
				TOTAL EST. DEMAND:	3600 VA
				TOTAL CONNECTED...	10 A
				TOTAL EST. DEMAND...	10 A

BRANCH CIRCUIT NOTES:

BRANCH PANEL: 1NLA2B

LOCATION: 1A162
SUPPLY FROM: BNLDA
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A
SERVICE ENTRANCE: No

GENERAL NOTES:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A	B	C	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	REC VENDING 1B182		20 A	1	0 VA	0 VA		1	20 A		REC 1A172	2
3	REC VENDING 1B182		20 A	1		0 VA	0 VA	1	20 A		REC 1A173	4
5	REC VENDING 1B182		20 A	1			0 VA	0 VA	1	20 A		REC 1A174	6
7	REC VENDING 1B182		20 A	1	0 VA	0 VA			1	20 A		REC CORR	8
9	REC VENDING 1B182		20 A	1		0 VA	0 VA		1	20 A		REC CORR	10
11	REC VENDING 1B182		20 A	1			0 VA	0 VA	1	20 A		REC 1B174	12
13	REC VENDING 1B182		20 A	1	0 VA	0 VA			1	20 A		REC NURSE STATION	14
15	REC VENDING 1B182		20 A	1		0 VA	0 VA		1	20 A		REC NURSE STATION	16
17	REC VENDING 1B182		20 A	1			0 VA	0 VA	1	20 A		EMERGENCY DEPT 1A215	18
19	REC VENDING 1B182		20 A	1	0 VA	600 VA			1	20 A		Receptacle Pd Exam 1a004	20
21	REC VENDING 1B182		20 A	1			0 VA	600 VA	1	20 A		Receptacle Room 1a006, 1a004, 1a005	22
23	REC VENDING 1B182		20 A	1			0 VA	200 VA	1	20 A		Receptacle Pd Nurse/supply 1a009	24
25	REC VENDING 1B182		20 A	1	0 VA	2500...			1	20 A		Other	26
27	REC VENDING 1B182		20 A	1			0 VA	1500...	1	20 A		Other	28
29	REC VENDING 1B182		20 A	1			0 VA	0 VA	1	20 A		SPARE	30
31	TEMP POWER		50 A	1	0 VA	0 VA			2	30 A		SPARE	32
33	TEMP POWER		50 A	1			0 VA	0 VA					34
35	SPACE		--	1			--	--	1	--		SPACE	36
37	SPACE		--	1	--	--			1	--		SPACE	38
39	SPACE		--	1		--	--		1	--		SPACE	40
41	SPACE		--	1			--	--	1	--		SPACE	42
			TOTAL...		3100 VA	2100 VA	200 VA						
			TOTAL...		28 A	20 A	2 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Other	4000 VA	100.00%	4000 VA		
Receptacle	1400 VA	100.00%	1400 VA	**TOTAL CONNECTED LOAD:**	5400 VA
				TOTAL EST. DEMAND:	5400 VA
				TOTAL CONNECTED...	15 A
				TOTAL EST. DEMAND...	15 A

BRANCH CIRCUIT NOTES:

BRANCH PANEL: 1NLD2(A)

LOCATION: 1D152B
SUPPLY FROM: NLD
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 200 A
SERVICE ENTRANCE: No

GENERAL NOTES:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A	B	C	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	AUDIO BOOTH 1D117		20 A	1	0 VA	0 VA		1	20 A		REC 1D113,114	2
3	AUDIO BOOTH 1D116		20 A	1		0 VA	0 VA	1	20 A		REC 1D102,115	4
5	Receptacle Ent Exam 1g104		20 A	1			760 VA	0 VA	1	20 A		REC 1D102,115	6
7	REC 1D161		20 A	1	0 VA	0 VA			1	20 A		REC 1D101	8
9	REC 1D161		20 A	1			0 VA	0 VA	1	20 A		REC CORR, 1D151	10
11	REC 1D161		20 A	1					1	20 A		REC 1D107,1D108	12
13	REC		20 A	1	0 VA	0 VA			1	20 A		REC 1D161	14
15	REC COLUMN D130		20 A	1			0 VA	0 VA	1	20 A		REC 1D161	16
17	SPARE		60 A	2					1	20 A		REC 1D108	18
19					0 VA	0 VA			1	20 A		REC 1D108	20
21	Receptacle Ent Exam 1g102		20 A	1			760 VA	0 VA	1	20 A		REC 1D119	22
23	EXISTING REC		20 A	1					1	20 A		REC 1D119	24
25	EXISTING REC		20 A	1	0 VA	0 VA			1	20 A		REC 1D110	26
27	EXISTING REC		20 A	1			0 VA	0 VA	1	20 A		REC 1D110	28
29	EXISTING REC		20 A	1					1	20 A		REC 1D110	30
31	LIGHTS XRAY		20 A	1	0 VA	0 VA			1	20 A		REC 1D111	32
33	LIGHTS XRAY		20 A	1			0 VA	0 VA	1	20 A		REC 1D111	34
35	LIGHTS XRAY		20 A	1					1	20 A		REC 1D112	36
37	EXISTING REC		20 A	1	0 VA	0 VA			1	20 A		VIEW SCREEN 1D136	38
39	EXISTING REC		20 A	1			0 VA	0 VA	1	20 A		COPIER 1D151	40
41	EXISTING REC		20 A	1					1	20 A		Receptacle Ent Exam 1g102	42
			TOTAL...		0 VA	760 VA	1520 VA						
			TOTAL...		0 A	7 A	14 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Receptacle	2280 VA	100.00%	2280 VA		
				TOTAL CONNECTED LOAD:	2280 VA
				TOTAL EST. DEMAND:	2280 VA
				TOTAL CONNECTED...	6 A
				TOTAL EST. DEMAND...	6 A

BRANCH CIRCUIT NOTES:

BRANCH PANEL: 1NLD2(B)

LOCATION: 1D152B
SUPPLY FROM: NLD
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A
SERVICE ENTRANCE: No

GENERAL NOTES:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	A	B	C	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	LIGHTS XRAY 159		20 A	1	0 VA	0 VA		1	20 A		REC 1D126	2
3	LIGHTS XRAY		20 A	1		0 VA	0 VA	1	20 A		REC 1D127,132,133	4
5							0 VA	0 VA	1	20 A		REC 1D133	6
7	PANEL IN XRAY 1D159		30 A	2					1	20 A		REC 1D138,147,138A	8
9	REC 1D131		20 A	1		0 VA	0 VA		1	20 A		REC 1D136,137,138	10
11	REC 1D127,132		20 A	1			0 VA	0 VA	1	20 A		REC 1D134,135,136	12
13	REC 1D156		20 A	1	0 VA	0 VA			1	20 A		REC 1D157	14
15	REC 1D156		20 A	1		0 VA	0 VA		1	20 A		REC 1D129	16
17	REC 1D156 SHUNT TRIP CT1		20 A	1			0 VA	1200...	1	20 A		Receptacle Ent Nurse/supply 1g103	18
19					0 VA	0 VA			1	20 A		REC 1D158	20
21	SPARE		40 A	3		0 VA	0 VA		1	20 A		EXISTING REC	22
23							0 VA	0 VA	1	20 A		EXISTING REC	24
25	REC 1D161		20 A	1	0 VA	0 VA			1	20 A		REC 1D161	26
27	REC 1D161		20 A	1		0 VA	0 VA		1	30 A		ISO PANEL DVI	28
29	MINI SPLIT RM 1D153		25 A	2			0 VA	760 VA	1	20 A		Receptacle Ent Exam 1g101	30
31					0 VA	0 VA			1	30 A		CHAPEL REC	32
33	CHAPEL REC		20 A	1		0 VA	2000...		1	20 A		PLUMBING FIXTURES	34
35	Receptacle Ent Exam 1g101		20 A	1				760 VA	600 VA	1	20 A	Receptacle Ent Reception 1g109	36
37	Receptacle Ent Waiting 1g110		20 A	1	600 VA	0 VA			1	20 A		SPARE	38
39	Receptacle Nurse Touchdown 1g111		20 A	1			600 VA	0 VA	1	20 A		SPARE	40
41	Receptacle Ent Corridor 1a011		20 A	1				800 VA	0 VA	1	20 A	SPARE	42
			TOTAL...		600 VA	2600 VA	4120 VA						
			TOTAL...		5 A	24 A	37 A						

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Other	2000 VA	100.00%	2000 VA		
Receptacle	5320 VA	100.00%	5320 VA	**TOTAL CONNECTED LOAD:**	7320 VA
				TOTAL EST. DEMAND:	7320 VA
				TOTAL CONNECTED...	20 A
				TOTAL EST. DEMAND...	20 A

BRANCH CIRCUIT NOTES:

Revisions	Date

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL SCHEDULES
Approved:
Phase: FINAL BID DOCUMENTS
FULLY SPRINKLERED
Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Location: ASHEVILLE VAMC
Issue Date: 03/12/2026
Checked: TDB
Drawn: WWS
Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Building Number:
Drawing Number: E-801

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VA FORM 08 - 6231

TELECOMMUNICATIONS ABBREVIATIONS

A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
AMB OR A	AMBIENT
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BBC	BONDING BACKBONE CONDUCTOR
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION PANEL
BYP	BY PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISTR	DISTRIBUTION
DN	DOWN
DRSW	DOOR SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
ESMT	EASEMENT
EXIST	EXISTING
FLEX	FLEXIBLE METALLIC CONDUIT
FOUTT	TELEPHONE FLOOR OUTLET
FP	FIRE PROTECTION
FT	FEET OR FOOT
G OR GND	GROUND OR GENERATOR
GEN	GENERATOR
GTB	GROUND TERMINAL BOX
HT	HEIGHT
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
J-BOX	JUNCTION BOX
LF	LINEAR FEET (FOOT)
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEUT OR N	NEUTRAL
NIC	NOT IN CONTRACT
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBB	PRIMARY BONDING BUSBAR
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
REQD	REQUIRED
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SSTV	SECURITY SURVEILLANCE TELEVISION
SURF	SURFACE
SW	SWITCH
TBC	TELECOMMUNICATIONS BONDING BUSBAR
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
MSB	MAIN SWITCH BOARD
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
WP	WEATHERPROOF

COMMUNICATION SYMBOLS

SYMBOL	DESCRIPTION
V CH	WORK AREA TCO, COMBINATION TELEPHONE/DATA COMMUNICATION OUTLET - 2 DATA PORT FACE PLATE WITH 2 DATA PORTS - (1) CAT6A CABLE PER PORT. CH = COUNTER HEIGHT
V J	OUTLET (VOIP) TELEPHONE, (1) PORT; (1) CAT6A CABLE. LETTER INDICATES AS FOLLOWS: J = JACK TYPE 18" AFF W = WALL TYPE 48" AFF WITH MOUNTING POSTS UON.
NCS	NURSE'S CALL MASTER STATION MTD ON NURSE'S COUNTER TOP, UNLESS OTHERWISE NOTED.
NCT	NURSE CALL TERMINAL CABINET.
CP	PROXIMITY CARD READER/NUMERIC KEYPAD, MTD. 4'-0" AFF UNLESS OTHERWISE NOTED.
RE	REQUEST TO EXIT DEVICE IN DOOR HARDWARE.
DC	MAGNETIC DOOR CONTACT SWITCH
DR	DOOR RELEASE BUTTON
102	SECURITY ACCESS, VIDEO CAMERA WITH LENS ### - CAMERA ID, REFER TO CAMERA SCHEDULE FOR MOUNTING AND CAMERA REQUIREMENTS EX - EXISTING CAMERA
D	PUSH BUTTON DOOR RELEASE, UNLESS NOTED OTHERWISE D = DURESS P = PANIC
S	CEILING MOUNTED PUBLIC ADDRESS SYSTEM SPEAKER
	TELECOMM GROUND BUS BAR, COPPER

SYMBOL	DESCRIPTION
	TELEPHONE TERMINAL CABINET
TTB	TELEPHONE BACKBOARD (WALL MOUNTED)
N 2	NURSE CALL STATION: SINGLE PATIENT CALL BUTTON UNLESS OTHERWISE NOTED 2 = DUPLICATE FACILITIES FOR TWO BEDS (SEPARATE INDICATORS AT MASTER STATION) MTD 5'-0" AFF UNLESS OTHERWISE NOTED D = DUTY STATION, MTD 5'-0" AFF UNLESS NOTED NOTED. T = PULL CORD MTD 6'-0" AFF FOR SHOWER LOCATION, MTD 4'-6" AFF FOR TUB LOCATION R = TOILET LOCATIONS DUAL HEIGHT PUSH BUTTONS: HIGH MTD 4'-0", LOW MTD 1'-6" AFF. E = STAFF ASSISTANCE MTD 5'-0" AFF. B = CODE BLUE P = PATIENT BED STATION S = AUDIO VISUAL WALL STATION (STAFF) MTD 5'-0" AFF UNLESS OTHERWISE NOTED. U = UTILITY CALL STATION, MTD 5'-0" AFF UNLESS OTHERWISE NOTED.
# N	CEILING MOUNTED NURSE CALL CORRIDOR DOME LIGHT WITH SOUNDER: # = NURSE'S CALL DOME LIGHT (SUFFIX INDICATES NUMBER OF LAMP) MTD ABOVE DOOR. 3-LAMP TYPICAL, UNLESS NOTED OTHERWISE. Z = AUXILIARY INTERSECTIONAL DOME LIGHT.
	37-PIN CONNECTOR FOR PATIENT BED CONTROLS (NURSE CALL/CODE BLUE/TV/LIGHTS/PHONE
	4-POST NETWORK EQUIPMENT RACK.
	VERTICAL CABLE MANAGEMENT.
	CABLE TRAY; SIZE AND MOUNTING HEIGHT AS INDICATED ON PLANS.

DEVICE MOUNTING LOCATION AND HEIGHT NOTES:

1. FOR WHEELCHAIR PATIENT USE MOUNT TELEPHONE OUTLET 36" AFF TO BOTTOM OF OUTLET BOX.
2. DESK PHONES - MOUNT OUTLET 1'-6" AFF.
3. PAY PHONES - MOUNT OUTLET 4'-0" AFF
4. HEIGHT OF TELECART OUTLETS SHALL BE AS INDICATED ON BEDWALLS OR PBPU DETAILS.
5. SEE VA BARRIER FREE DESIGN GUIDE PG-18-13.

GENERAL NOTES

1. PRODUCTS SHALL BE OF MATERIALS THAT ARE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
2. WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110, COORDINATE EQUIPMENT INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
3. IF AN OUTLET BOX IS REQUIRED TO BE LOCATED IN AN ASSEMBLY OR PARTITION RATED AS "FIRE/SMOKE" OR "SMOKE" OR IDENTIFIED AS EITHER "FIRE/SMOKE" OR "SMOKE", THEN ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
   A. THE OUTLET BOX SHALL BE METALLIC.
   B. THE OUTLET BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF THE FRAMING SPACE.
   C. THE OUTLET BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES.
   D. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE WALL BOARD MATERIAL SHALL BE COMPLETELY SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS FOR THE PROJECT.
   E. PROVIDE A SUPPLEMENTAL BARRIER AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE ORIGINAL RATING OF THE PENETRATION IS MAINTAINED.
   F. THE TOTAL AGGREGATE SURFACE AREA OF THE OUTLET BOX SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
   G. THE OUTLET BOX SHALL BE SEPARATED FROM OPENINGS ON THE OPPOSITE SIDE OF THE RATED PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
   H. THE OUTLET BOX SHALL BE SECURELY FASTENED TO A PARTITION FRAMING MEMBER BY MEANS OF AN APPROVED ATTACHMENT METHOD.
   I. OPENINGS CUT INTO THE WALL BOARD MATERIAL SHALL NOT EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
4. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT EQUIPMENT LOCATION AND CONNECTION REQUIREMENTS WITH THE APPROPRIATE TRADE PRIOR TO INSTALLATION.
5. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE PRIOR TO ANY ROUGH-IN. NOTIFY ARCHITECT OF ANY DISCREPANCY.
6. PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT WHERE INDICATED ON THE PLAN DRAWINGS.
7. PRIOR TO ROUGH-IN AND INSTALLATION OF ANY FLOOR MOUNTED DEVICE, VERIFY LOCATION WITH THE ARCHITECT.
8. VERIFY AND COORDINATE THE LOCATION OF REQUIRED DIVISION 27 OUTLETS WITH OTHER TRADE DRAWINGS AND OWNER PROVIDED EQUIPMENT.
9. ALL RACEWAY SYSTEMS SHOWN TO SUPPORT THE INSTALLATION OF THE DIVISION 27 EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. PROVIDE COORDINATION FOR THE INSTALLATION OF THIS RACEWAY SYSTEM WITH THE ELECTRICAL CONTRACTOR.
10. EACH VOICE/DATA OUTLET LOCATION SHOWN, SHALL HAVE A DOUBLE GANG OUTLET BOX WITH A SINGLE GANG PLASTER RING AND (1) 1-1/2" CONDUIT STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING OR TO AN ACCESSIBLE CABLE TRAY WHERE PROVIDED. WORK BY ELECTRICAL CONTRACTOR PER SPECS.
11. ALL BONDING AND GROUNDING ELEMENTS UTILIZED FOR STRUCTURED CABLING SYSTEM SHALL BE IN COMPLIANCE WITH SPECIFICATION SECTION 260200.
12. PROVIDE ALL SLEEVES AS REQUIRED FOR ALL LOW VOLTAGE CABLE PATHWAYS. RESTORE THE FIRE RATING OF THE SURFACE.
13. CABLE INSTALLED BELOW SLAB SHALL HAVE INDOOR/OUTDOOR RATED JACKET FOR PROTECTION OF STRUCTURED CABLE.
14. ALL TELECOMMUNICATIONS CONDUITS SHALL BE PROVIDED WITH BUSHINGS AT EACH END FOR PROTECTION OF STRUCTURED CABLE.
15. CAT6A CABLE BUNDLE SIZES AND CABLES ENCLOSED IN CONDUITS SHALL NOT EXCEED CABLE QUANTITIES INDICATED IN NEC TABLE 725.144, UNLESS CABLES ARE UL LISTED AS X-LP (0.5A). TYPE 4 POE CABLES WITHOUT LP CERTIFICATION ARE SUBJECT TO INSPECTION TO ENSURE BUNDLE SIZE AND CURRENT LIMITATIONS PER NEC TABLE 725.144 ARE NOT EXCEEDED.
16. PROVIDE FACTORY PRE-TERMINATED CAT6A CABLES WHEN DISTANCES ARE KNOWN. FIELD TERMINATED CABLES ARE ALLOWED IF KNOWN DISTANCES ARE NOT ABLE TO BE DETERMINED.
17. BUNDLE CABLES TOGETHER IN GROUPS OF RELEVANCE (FOR EXAMPLE, CABLES TO A SINGLE EQUIPMENT DISTRIBUTOR OR UPLINKS TO CORE DEVICES), AS THIS WILL EASE MANAGEMENT AND TROUBLESHOOTING.
18. BUNDLES OF CABLES, WHEN NECESSARY, SHOULD BE BUILT FROM SUB-BUNDLES OF NO MORE THAN 6-8 INDIVIDUAL CABLES. THE LARGER BUNDLES SHOULD NOT EXCEED FOUR SUB-BUNDLES OF LIKE QUANTITY.
19. WHEN BUNDLING OR SECURING CABLES, USE VELCRO-BASED TIES NOT MORE THAN EVERY 3 FT TO 6 FT, AND MORE FREQUENTLY AS NEEDED TO MAINTAIN A CLEAN INSTALLATION. DO NOT USE ZIP TIES OR TWIST TIES FOR CABLE BUNDLING OR SECURING, AS THESE APPLY PRESSURE ON THE CABLES.
20. ONLY BUNDLE LIKE CABLE TYPES. DO NOT BUNDLE FIBER, POWER, AND UTP TOGETHER.

PULL SCHEDULE REQUIREMENTS

CONTRACTOR SHALL PROVIDE PULL SCHEDULE WITH TELECOM SHOP DRAWINGS. TELECOM SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY INCLUDE PULL SCHEDULES.

CAT6A COPPER CABLE COLOR CODING

WHITE	- VOICE
YELLOW/GREEN/GREY	- DATA
ORANGE	- WIRELESS
VIOLET	- VIDEO SURVEILLANCE
BLUE	- NURSE CALL
RED	- FIRE ALARM
BLACK	- BAS & DAS

COORDINATION NOTES

STRUCTURED CABLING SYSTEM (SCS):
THE SCS CONTRACTOR (SCSC) SHALL PROVIDE ALL BACKBONE AND HORIZONTAL CABLING, COMPONENTS AND TERMINATIONS AS REQUIRED FOR A COMPLETE AND OPERATIONAL CABLING SYSTEM PER INDUSTRY BEST PRACTICES AS PRESCRIBED BY BICSI AND NEC.

THE SCSC SHALL BE RESPONSIBLE FOR COORDINATION WITH THE ELECTRICAL CONTRACTOR (EC) FOR SPECIFIC LOCATIONS OF ALL TELECOMMUNICATIONS SYSTEM DEVICES, INCLUDING ANCILLARY SYSTEM COMPONENTS AND ASSOCIATED CONDUITS PROVIDED BY THE EC.

THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ROUGH-IN COMPONENTS ASSOCIATED WITH THE TELECOMMUNICATIONS SYSTEM COMPONENTS AS NOTED ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO, CONDUIT AND BACK-BOXES. THE EC SHALL COORDINATE ALL REQUIREMENTS WITH THE SCS CONTRACTOR.

ACCESS CONTROL:
THE SCS CONTRACTOR (SCS) SHALL BE RESPONSIBLE FOR INSTALLING ALL CABLING AND DEVICES TO SUPPORT THE VA PROVIDED SECURITY HEAD END EQUIPMENT. VA SHALL INSTALL, CONNECT AND CONFIGURE FINAL SECURITY HEAD END EQUIPMENT.

THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ROUGH-IN COMPONENTS ASSOCIATED WITH THE SECURITY SYSTEM AS NOTED ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO, CONDUIT AND BACK-BOXES. THE EC SHALL COORDINATE WITH THE SCS CONTRACTORS.

FIRESTOPPING:
THE EC SHALL BE RESPONSIBLE FOR FIRE-STOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING.

THE SCSC SHALL BE RESPONSIBLE FOR FIRE-STOPPING INSIDE THE SLEEVES AFTER CABLE INSTALLATION IS COMPLETE.

CASEWORK / MILLWORK:
THE SCSC SHALL BE RESPONSIBLE FOR INSTALLING TELECOMMUNICATIONS OUTLETS IN CASEWORK, AS REQUIRED. CABLES SHALL BE CONCEALED IN CASEWORK.

THE EC SHALL BE RESPONSIBLE FOR INSTALLING ASSOCIATED CONDUIT AND BACK-BOXES AND SHALL STUB CONDUIT TO THE ABOVE ACCESSIBLE CEILING SPACE.

CONDUIT:
THE EC SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL BACKBONE AND HORIZONTAL CABLING PATHWAYS. THIS SHALL INCLUDE ALL INTERIOR CONDUITS, PATHWAY COMPONENTS SUCH AS JUNCTION BOXES, PULL BOXES, WALL/CEILING PENETRATIONS AND CONDUIT SLEEVES, WHETHER SHOWN ON THE DRAWINGS OR AS REQUIRED TO PENETRATE FULL-HEIGHT PARTITIONS AS SHOWN ON THE DRAWINGS. THE EC SHALL PROVIDE AND INSTALL ALL BUSHINGS ON TELECOMMUNICATIONS CONDUITS PRIOR TO INSTALLATION OF CABLING.

THE SCSC SHALL BE RESPONSIBLE FOR ALL WIRE RACEWAYS, CABLE RUNWAY (LADDER RACK) AND OTHER REQUIREMENTS FOR ROUTING AND SECURING CABLE INSIDE THE MAIN TELECOMMUNICATIONS ROOM (MTR) AND ALL TR'S.

TELECOMMUNICATIONS COMMUNICATIONS OUTLETS (C.O.'S) AND DEVICES:
THE EC SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACK-BOXES ASSOCIATED WITH THE TELECOMMUNICATIONS C.O.'S AND DEVICES.

THE SCSC SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL STRUCTURED CABLING, JACKS, FACEPLATES AND JUMPER/PATCH CORDS.

CONDUIT/INNER DUCT CAT6A CABLE FILL CHART

CONDUIT SIZE (ID)	MAX NUMBER OF CAT6A CABLES PER CONDUIT	CONDUIT FILL
1.10"	3	34.7%
1.25"	6	39.7%
1.50"	8	38.8%
2.00"	13	38.0%
2.50"	19	38.9%
3.00"	30	39.7%
4.00"	52	39.9%

BASIS OF DESIGN CAT6A CABLE NOMINAL OUTER DIAMETER IS 0.35".
CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING CABLE FILL FOR CABLES WITH LARGER OR SMALLER NOMINAL OUTTER DIAMETER.

SHEET LIST

SHEET NUMBER	SHEET NAME
T-001	TECHNOLOGY LEGEND, ABBREVIATIONS, & GENERAL NOTES
TD101	TECHNOLOGY DEMOLITION PLAN
TN101	TECHNOLOGY FLOOR PLANS
T-501	TECHNOLOGY DETAILS
T-601	TECHNOLOGY DIAGRAMS

Revisions | Date

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VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY LEGEND, ABBREVIATIONS, & GENERAL NOTES

Phase: FINAL BID DOCUMENTS

Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS

Project Number: VA Project No. 637-22-102; AG Project No. 0123039

Building Number:

Approved:

Location: ASHEVILLE VAMC

FULLY SPRINKLERED

Issue Date: 03/12/2026 | Checked: TDB | Drawn: JPH

Drawing Number: T-001

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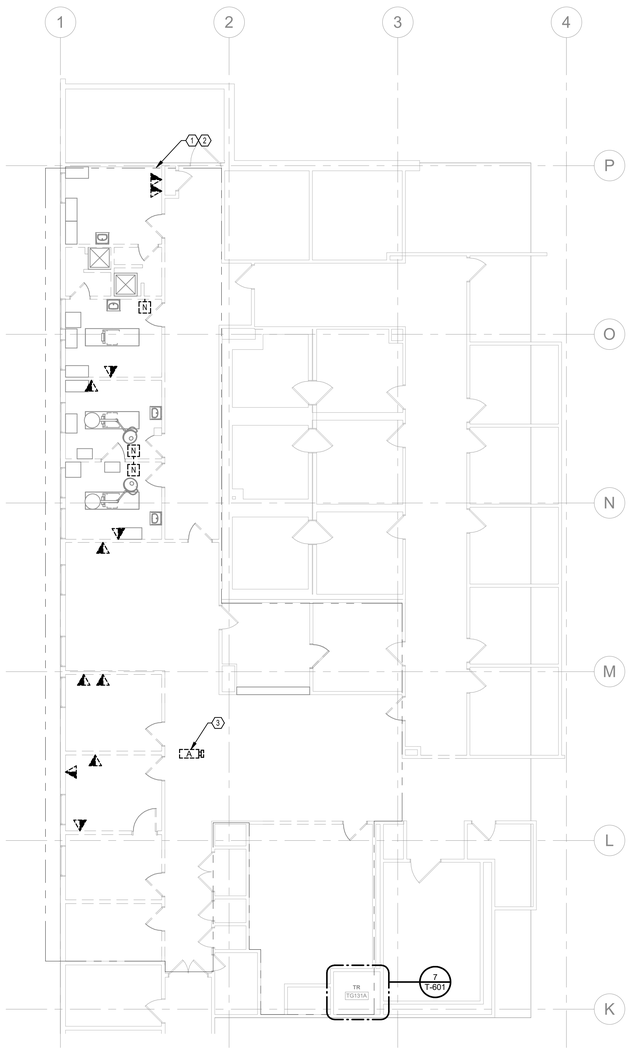
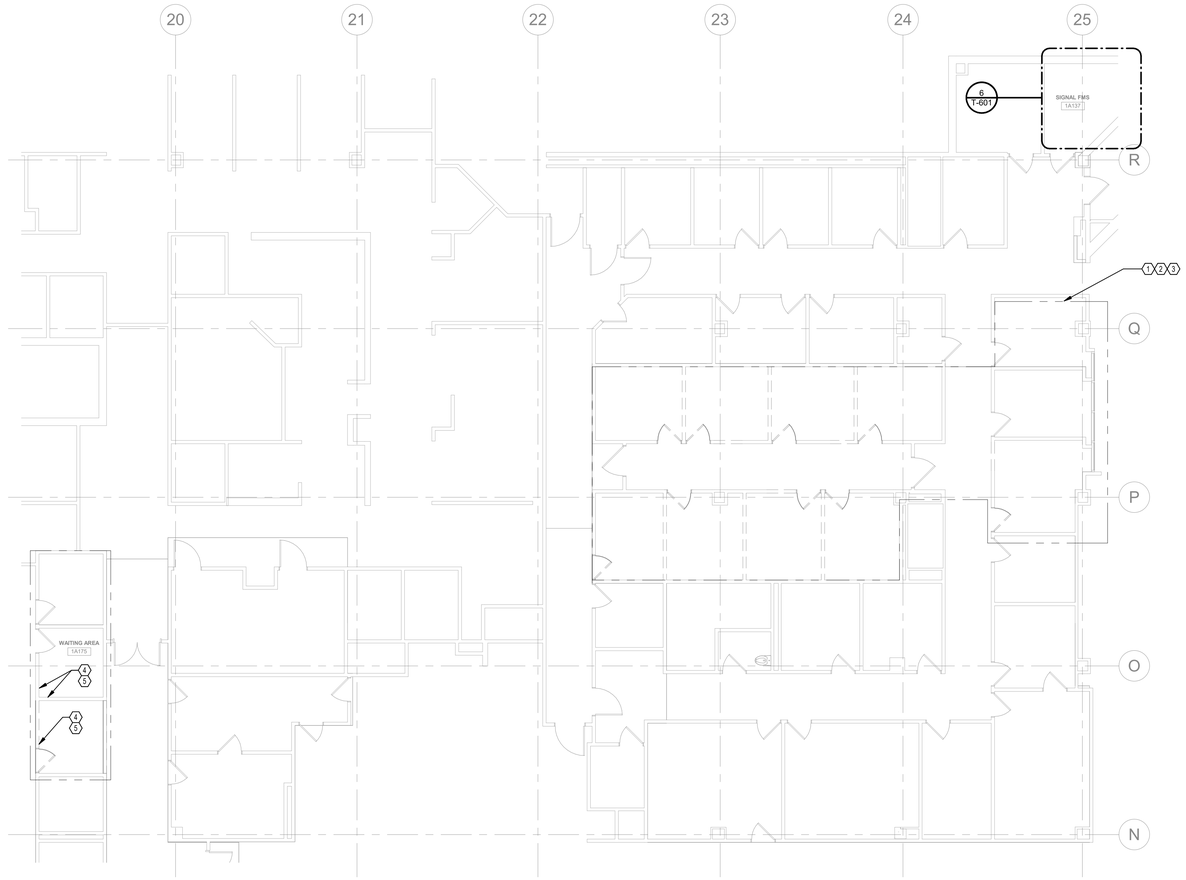


1 FIRST FLOOR PLAN - TECHNOLOGY - DEMOLITION - ENT
1/8" = 1'-0"



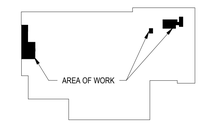
2 FIRST FLOOR PLAN - TECHNOLOGY - DEMOLITION - PODIATRY
1/8" = 1'-0"

DRAWING NOTES:

1. COORDINATE EXACT EXTENTS OF DEMOLITION WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
2. EXISTING NETWORK AND SPECIAL SYSTEMS OUTLETS WITHIN PODIATRY AREA ARE FED FROM SIGNAL ROOM A137. CONTRACTOR TO VERIFY EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES LOCATED WITHIN THE AREA OF DEMOLITION AS INDICATED ON THIS DRAWING.
3. DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE; FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
4. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND QUANTITIES OF DATA OUTLETS AND DATA PORT COUNTS PRIOR TO CONSTRUCTION. EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK. CONTRACTOR TO DOCUMENT VARIANCES ON AS-BUILT DRAWINGS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING TO REMAIN CONDITIONS FROM DAMAGE DURING CONSTRUCTION. ANY MATERIALS, SYSTEMS, COMPONENTS, FINISHES, ETC. THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE TO THE APPROVAL OF THE VA.
6. THIS SITE IS AN ACTIVE WORKING ENVIRONMENT; SYSTEMS SHALL NOT BE SHUT DOWN WITHOUT WRITTEN AUTHORIZATION. ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
7. TELECOMMUNICATIONS OUTLET WORK INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF EXISTING DEVICES AND ASSOCIATED NETWORK CABLING BACK TO PATCH PANEL, PROVIDING ALL MATERIALS, TOOLS, LABOR, TESTING INSTRUMENTS, ETC. REQUIRED FOR THE COMPLETE REPLACEMENT WITH A FULLY FUNCTIONAL CATEGORY 6A, 8P8C PORT WITH THE PORT QUANTITY INDICATED FOR EACH OUTLET LOCATION.
8. PENETRATIONS IN FIRE RATED ASSEMBLIES RESULTING FROM THE REMOVAL OF EQUIPMENT, PATHWAYS, CABLING, OR OTHER EQUIPMENT SHALL BE FIRE STOPPED PER THE LATEST EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
9. INTERIOR FIRE WALL PENETRATIONS - CONTRACTOR SHALL PROVIDE APPROVED UL LISTED FIRE RATED ASSEMBLY OR SYSTEM TO MAINTAIN FIRE RATING OF EXISTING FIRE BARRIER.
10. THE OWNER CLAIMS FIRST RIGHT OF REFUSAL FOR EXISTING EQUIPMENT. COORDINATE SALVAGE REQUIREMENTS WITH THE OWNER PRIOR TO DEMOLITION. IDENTIFY, TAG, AND CAREFULLY DECOMMISSION EQUIPMENT TO BE SALVAGED FOR THE OWNER. EQUIPMENT NOT WANTED BY THE OWNER SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.

CODED NOTES:

1. DISCONNECT AND REMOVE ALL DATA AND VOICE OUTLETS FROM AREA OF DEMOLITION. REMOVE CABLE, BACK BOX, AND CONDUIT BACK TO NETWORK RACK.
2. DISCONNECT AND REMOVE ALL NURSE CALL DEVICES LOCATED IN AREA OF DEMOLITION. REMOVE CABLES BACK TO NEXT DEVICE ON CIRCUIT LOCATED OUTSIDE AREA OF DEMOLITION. IF NO OTHER DEVICES REMAIN ON CIRCUIT REMOVE CABLING, BACK BOX, AND CONDUIT BACK TO SOURCE. CONTRACTOR MUST VERIFY ALL NURSE CALL DEVICES THAT ARE EXISTING TO REMAIN ON CIRCUITS MODIFIED UNDER THIS CONTRACT ARE FULLY FUNCTIONAL AT THE END OF EACH WORK DAY.
3. DISCONNECT AND REMOVE ALL SSTV CAMERAS LOCATED INSIDE AREA OF DEMOLITION. REMOVE CABLING, BACK BOX, AND CONDUIT BACK TO SOURCE. CONTRACTOR SHALL VERIFY FUNCTIONALITY OF CAMERA AND RETAIN FOR REINSTALLATION.
4. DISCONNECT AND REMOVE ALL DATA AND VOICE OUTLETS FROM AREA OF DEMOLITION ON WALLS INDICATED, REMOVE CABLE, BACK BOX, AND CONDUIT BACK TO NETWORK RACK. DEMOLITION NOT REQUIRED FOR DEVICES LOCATED ON EXISTING TO REMAIN WALLS.
5. DISCONNECT AND REMOVE ALL NURSE CALL DEVICES LOCATED IN AREA OF DEMOLITION ON WALLS INDICATED, REMOVE CABLES BACK TO NEXT DEVICE ON CIRCUIT LOCATED OUTSIDE AREA OF DEMOLITION. IF NO OTHER DEVICES REMAIN ON CIRCUIT REMOVE CABLING, BACK BOX, AND CONDUIT BACK TO SOURCE. CONTRACTOR MUST VERIFY ALL NURSE CALL DEVICES THAT ARE EXISTING TO REMAIN ON CIRCUITS MODIFIED UNDER THIS CONTRACT ARE FULLY FUNCTIONAL AT THE END OF EACH WORK DAY. DEMOLITION NOT REQUIRED FOR DEVICES LOCATED ON EXISTING TO REMAIN WALLS.



KEY PLAN

N
0 4' 8' 16' 24'
1/8" = 1'-0"

Revisions | Date

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Drawing Title	TECHNOLOGY DEMOLITION PLAN
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	
Approved:	
	FULLY SPRINKLERED
Location	ASHEVILLE VAMC
Issue Date	03/12/2026
Checked	TDB
Drawn	JPH
Drawing Number	TD101

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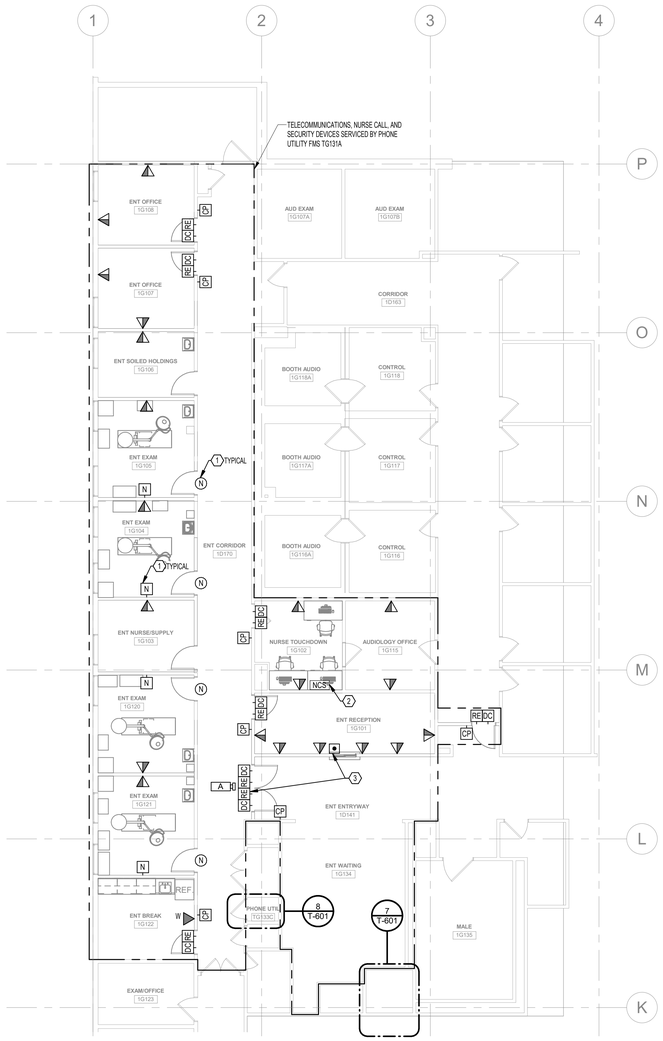


1 FIRST FLOOR PLAN - TECHNOLOGY - NEW WORK - ENT
1/8" = 1'-0"

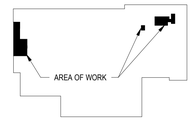
2 FIRST FLOOR PLAN - TECHNOLOGY - NEW WORK - PODIATRY
1/8" = 1'-0"

DRAWING NOTES:

1. DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT TO BE CONSTRUED AS ALL INCLUSIVE. FIELD VERIFY EXISTING CONDITIONS AND ADJUST WORK AS REQUIRED TO EXECUTE SPECIFIED WORK.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND QUANTITIES OF DATA OUTLETS AND DATA PORT COUNTS PRIOR TO CONSTRUCTION. EXISTING CONDITIONS INDICATED ARE BASED ON GENERAL FIELD NOTES AND HISTORICAL DATA AND DOCUMENTATION AND ARE FOR REFERENCE PURPOSES ONLY TO DEFINE SCOPE OF WORK. CONTRACTOR TO DOCUMENT VARIANCES ON AS-BUILT DRAWINGS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING CONDITIONS FROM DAMAGE DURING CONSTRUCTION. ANY MATERIALS, SYSTEMS, COMPONENTS, FINISHES, ETC. THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE TO THE APPROVAL OF THE VA.
4. THIS SITE IS AN ACTIVE WORKING ENVIRONMENT; SYSTEMS SHALL NOT BE SHUT DOWN WITHOUT WRITTEN AUTHORIZATION; ALL REQUESTS SHALL BE SUBMITTED IN WRITING A MINIMUM OF TEN (10) WORKING-DAYS PRIOR TO PROPOSED ACTIVITY DATE OR NEED UNLESS DIRECTED OTHERWISE.
5. TELECOMMUNICATIONS OUTLET WORK INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF EXISTING DEVICES AND ASSOCIATED NETWORK CABLING BACK TO PATCH PANEL, PROVIDING ALL MATERIALS, TOOLS, LABOR, TESTING INSTRUMENTS, ETC. REQUIRED FOR THE COMPLETE REPLACEMENT WITH A FULLY FUNCTIONAL CATEGORY 6A, 8P8C PORT WITH THE PORT QUANTITY INDICATED FOR EACH OUTLET LOCATION.
6. PROVIDE ALL CONDUITS AND SLEEVES AS REQUIRED FOR ROUTING OF CAT6A HORIZONTAL CABLING. REFER TO CABLE FILL CHARTS ON SHEET T001 FOR ADDITIONAL INFORMATION.
7. INTERIOR FIRE WALL PENETRATIONS - CONTRACTOR SHALL PROVIDE APPROVED UL LISTED FIRE RATED ASSEMBLY OR SYSTEM TO MAINTAIN FIRE RATING OF EXISTING FIRE BARRIER.
8. NEW CAT6A CABLING SHALL BE ROUTED ABOVE ACCESSIBLE CEILINGS USING NEW AND EXISTING J-HOOK SYSTEMS. CONTRACTOR TO PROVIDE NEW 2" J-HOOKS AS REQUIRED FOR INSTALLATION OF NEW CAT6A CABLING. J-HOOK BASIS OF DESIGN IS NVENT CADDY CAT HP J-HOOK TREE. MAX CABLE FILL IS (35) CAT6A CABLES PER 2" J-HOOK (CABLE BASIS OF DESIGN - 0.35" NOMINAL OUTER CABLE DIAMETER). CONTRACTOR SHALL PROVIDE CONDUIT FOR ROUTING OF NEW CAT6A CABLING ABOVE HARD CEILINGS. REFER TO CABLE FILL CHARTS ON SHEET T001 FOR INNERDUCT AND CONDUIT FILL.
9. PROVIDE PULL BOXES SIZED PER ANSI/TIA-569 AT 100FT INTERVALS FOR STRAIGHT CONDUIT RUNS, OR AT MAXIMUM CUMULATIVE OF 180 DEGREES OF CONDUIT BENDS.
10. DATA CABLING SHALL BE SEGREGATED FROM OTHER SPECIAL SYSTEMS INCLUDING BUT NOT LIMITED TO FIRE ALARM, SECURITY AND SSTV. DATA CABLING SHALL HAVE ITS OWN RACEWAY WHEN ROUTED THROUGH CONDUIT.
11. DATA OUTLETS ON THIS SHEET SHALL BE CONNECTED BACK TO NEW PATCH PANELS IN NEW NETWORK RACK LOCATED IN TELECOMMUNICATION INDICATED ON PLAN.
12. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
13. REFER TO ARCHITECTURAL DRAWINGS FOR NEW PENETRATIONS INTO FIRE RATED WALLS.
14. NETWORK AND COMMUNICATION CABLING TO BE ROUTED IN CABLE TRAY AND J-HOOKS ABOVE ACCESSIBLE CEILING AND IN OPEN TO STRUCTURE AREAS. CABLING TO BE ROUTED IN CONDUIT ABOVE HARD CEILINGS. REFER TO CONDUIT FILL CHART ON SHEET T001 FOR CONDUIT SIZING.

CODED NOTES:

1. CONNECT NEW NURSE CALL DEVICES TO EXISTING NURSE CALL SYSTEM. REFER TO NURSE CALL DIAGRAM ON SHEET T-601 FOR ADDITIONAL INFORMATION.
2. COORDINATE EXACT LOCATION OF NURSE CALL STATION WITH MILLWORK PRIOR TO CONSTRUCTION.
3. PROVIDE PUSH BUTTON FOR RELEASE OF ACCESS CONTROL AT DOOR INDICATED. COORDINATE EXACT LOCATION OF PUSH BUTTON WITH MILLWORK AND VA PRIOR TO CONSTRUCTION.



KEY PLAN

N

0 4' 8' 16' 24'
1/8" = 1'-0"

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ARCHITECT/ENGINEER OF RECORD

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Bicsi
Christopher Von Meter
BICSI ID # 285002
EXPIRES 12-31-28
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Revisions	Date

Drawing Title	TECHNOLOGY FLOOR PLANS
Phase	FINAL BID DOCUMENTS
Project Title	RENOVATE SPACE FOR PATIENT IMPROVEMENTS
Project Number	VA Project No. 637-22-102 AG Project No. 0123039
Building Number	
Approved:	
Location	ASHEVILLE VAMC
Drawing Number	TN101
Issue Date	03/12/2026
Checked	TDB
Drawn	JPH

FULLY SPRINKLERED

Autodesk Docs://0123039 - VAMC Asheville - Patient Improvements/0123039_VA Asheville - Patient Improve_R23_MEPFAFPT.rvt
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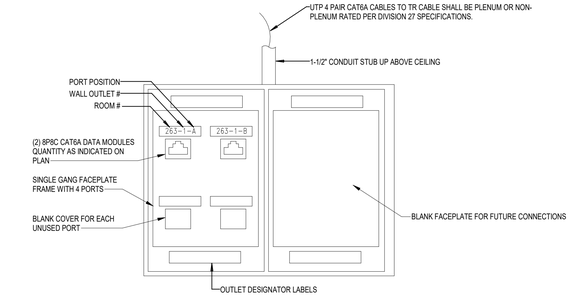


TCO PLAN SYMBOL

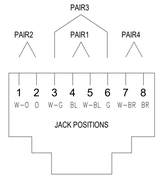
NOTES:

1. LABELING STANDARDS SHALL BE FOLLOWED FOR ROOM NUMBER OUTLET IS LOCATED IN, OUTLET POSITION IN ROOM (STARTING ON WALL TO LEFT OF ENTRY DOOR), AND PORT POSITION IN OUTLET - 101-1-A.

2. 8P8C CONNECTIONS IN WALL PLATES SHALL BE COLOR CODED TO MATCH CABLE COLORS INDICATED ON SHEET T-001.

3. WALL BOX SHALL BE DOUBLE-GANG TELECOMMUNICATIONS-RATED WORK BOX WITH RIGID CONDUIT EXTENDING TO THE HORIZONTAL PATHWAY.

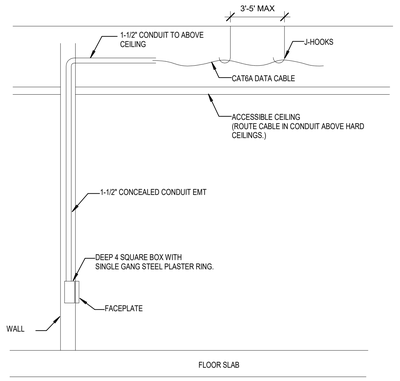
1 WALL MOUNTED OUTLET - (TCO) VOICE/DATA
N.T.S.



MODULAR JACK WIRING (FRONT VIEW)

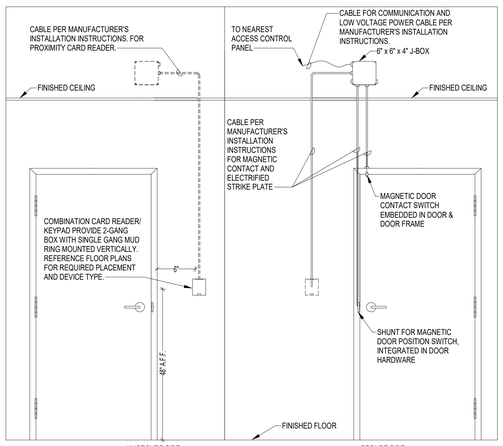
VERIFY CAMPUS STANDARD WITH CAMPUS IT REPRESENTATIVE PRIOR TO CONSTRUCTION.

2 MODULAR JACK WIRING DETAIL
N.T.S.



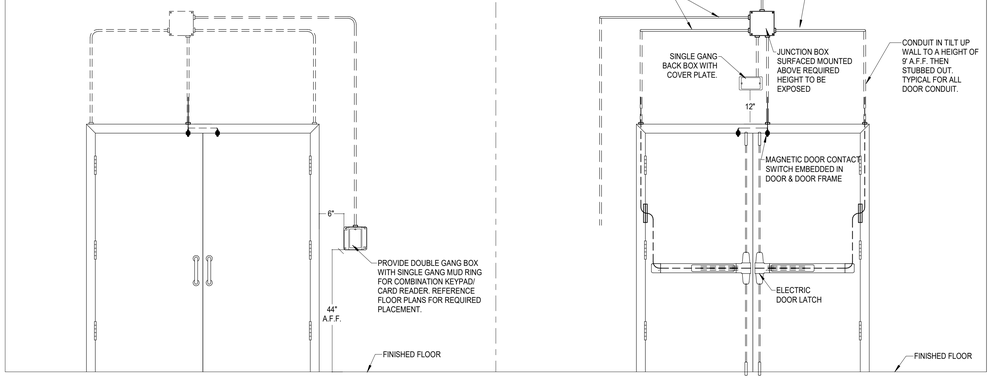
3 TYPICAL FLUSH OUTLET MOUNTING
N.T.S.

NOTE:
1. CABLE TYPE AND SIZE MUST COMPLY WITH ALL ESTABLISHED REQUIREMENTS AND APPLICABLE CODES.
2. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
3. DOOR HARDWARE SHOWN FOR GRAPHICAL INSTRUCTION ONLY, REFERENCE HARDWARE SCHEDULE AS NEEDED FOR ACTUAL HARDWARE SET.



4 SECURITY SINGLE DOOR DETAIL - STRIKE
N.T.S.

NOTES: 1. CABLE TYPE AND SIZE MUST COMPLY WITH ALL ESTABLISHED REQUIREMENTS AND APPLICABLE CODES.
2. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
3. DOOR HARDWARE SHOWN FOR GRAPHICAL ILLUSTRATION ONLY, REFERENCE DIVISION 8 HARDWARE SCHEDULE AS NEEDED FOR ACTUAL HARDWARE SET.



5 SECURITY DOUBLE DOOR - CONDUIT FOR CARD READER AND LOCK
N.T.S.

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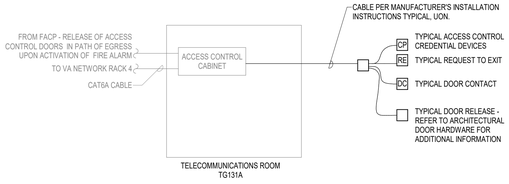
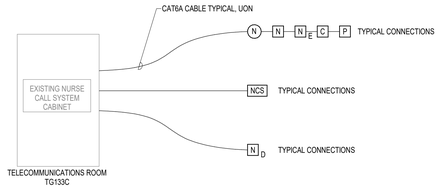
VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DETAILS	Phase: FINAL BID DOCUMENTS	Project Title: RENOVATE SPACE FOR PATIENT IMPROVEMENTS	Project Number: VA Project No. 637-22-102; AG Project No. 0123039
Approved:	FULLY SPRINKLERED	Location: ASHEVILLE VAMC	Building Number
		Issue Date: 03/12/2026; Checked: TDB; Drawn: JPH	Drawing Number: T-501



1 ACCESS CONTROL DIAGRAM ENT
N.T.S.

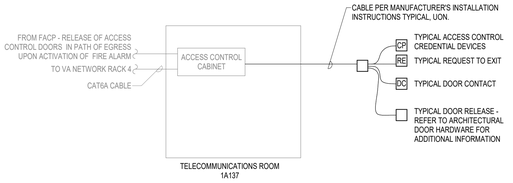


2 NURSE CALL DIAGRAM ENT
N.T.S.

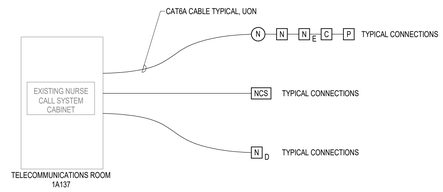
CAMERA SCHEDULE

CAMERA ID	VIEW ANGLE	MULTI LENS	FISH EYE	ZOOM	PAN/TILT	WEATHER PROOF	REQUIERED ANALYTICS	CAMERA MOUNTING	MOUNTING HEIGHT	CAMERA NOTES
A	360	Yes						CEILING MOUNTED	CEILING HEIGHT	EXISTING CAMERA TO BE REINSTALLED

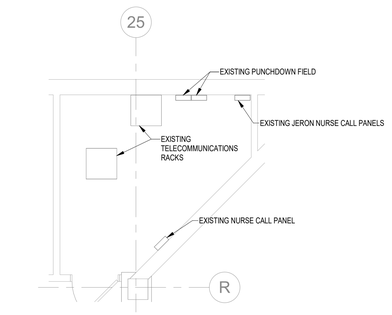
3 SSTV-ACCESS CONTROL DIAGRAM
N.T.S.



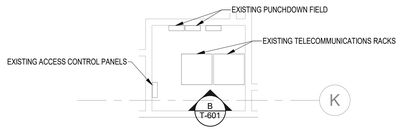
4 ACCESS CONTROL DIAGRAM PODIATRY
N.T.S.



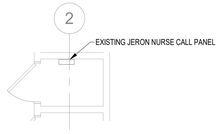
5 NURSE CALL DIAGRAM PODIATRY
N.T.S.



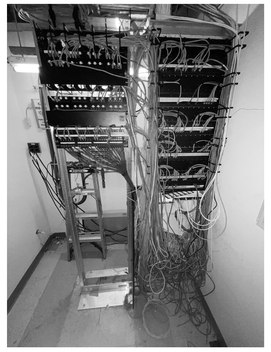
6 SIGNAL FMS 1A137 - ENLARGED
1/4" = 1'-0"



7 TELECOM ROOM TG131A - ENLARGED
1/4" = 1'-0"



8 PHONE UTILITY ROOM TG133C - ENLARGED
1/4" = 1'-0"



9 TELECOM ROOM TG131A PHOTO
N.T.S.

T - Network Cable Counts

TL_Data Rack ID	T_Data Cables	T_Voice Cables	Family and Type
	91	11	T - VD - Communications Outlet: Voice Data
	1	0	T - VD - Communications Outlet: Wall Phone
	1	0	SSTV-Camera-Data: DATA
Grand total: 43	93	11	

N
0 2' 4' 8' 12'
1/4" = 1'-0"

Revisions | Date

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Approved:
Location: ASHEVILLE VAMC
FULLY SPRINKLERED
Issue Date: 03/12/2026
Checked: TDB
Drawn: JPH
Drawing Number: T-601

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