VA | U.S. Department of Veterans Affairs

ISSUED FOR BID
05/15/2026

PROJECT LOCATION:
BIRMINGHAM VAMC

700 SOUTH 19TH STREET
BIRMINGHAM, AL 35233

PROJECT TITLE:
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

BUILDING NUMBER:
#1

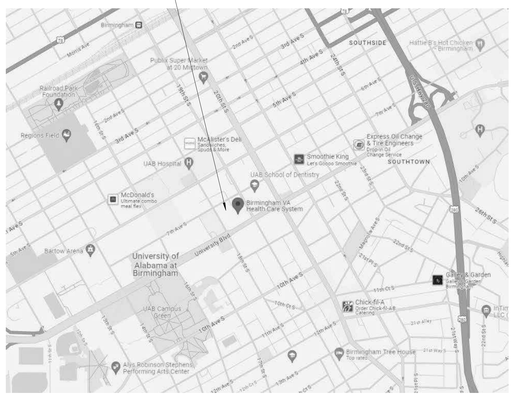
ARCHITECTS + ENGINEERS:
BANCROFT ARCHITECTS + ENGINEERS

1471 E Center Business Dr
Mount Prospect IL, 60056
T:847.952.9362
www.bancroft-ae.com

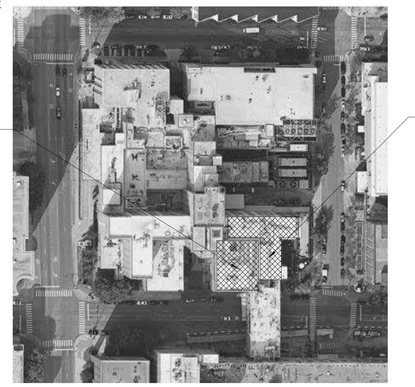
PROJECT NUMBERS:

CONTRACT NUMBER:	36C24724C0036
STATION PROJECT NUMBER:	521-24-102
BANCROFT-AE PROJECT NUMBER:	23-135

1 REGIONAL MAP
NOT TO SCALE



2 VICINITY MAP
NOT TO SCALE



3 CAMPUS MAP
NOT TO SCALE

ARCHITECTURAL
LICENSED ARCHITECT — DENNIS J MIKA — 001-011989 — 5/15/26 — STATE OF ILLINOIS
Exp. 11/30/26

STRUCTURAL
STATE OF MISSOURI — WILLIAM A CARPENTER — NUMBER PE-2022032334 — PROFESSIONAL ENGINEER
5/15/26

FIRE PROTECTION
ALABAMA LICENSED — 26782 PROFESSIONAL — STEPHEN M. TAMBURELLO — ENGINEER
05/15/26

PLUMBING / MECHANICAL
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS — RAED HAMID — 062.065548
05-15-2026

ELECTRICAL
LICENSED PROFESSIONAL ENGINEER — 5/15/2026 — WALTER J. GROSZKO — 062-035261 — STATE OF ILLINOIS

ICT
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER — BICSI — Chris Carter — BICSI ID # 136803 — Expires 13-31-27 — RCDD
5/15/2026

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
35% SCHEMATIC DESIGN	05/29/2024
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD
1471 E Business Center Dr, Mount Prospect, IL 60056
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BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036 Bancroft Project No. 23-135

STAMP
LICENSED ARCHITECT — DENNIS J MIKA — 001-011989 — 5/15/26 — STATE OF ILLINOIS
Exp. 11/30/26

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

Drawing Title: GENERAL - COVER SHEET
Approved: Project Director
Phase: ISSUED FOR BID
FULLY SPRINKLERED
Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Location: BIRMINGHAM VAMC
Issue Date: 05/15/2026
Checked: CR
Drawn: LD
Project Number: 521-24-102
Building Number: #1
Drawing Number: G001

VA FORM 08-6231

DRAWING INDEX								
SHEET NUMBER	SHEET TITLE	35%	35% RE	65%	65% RE	95%	100%	IFB
00-GENERAL								
G001	GENERAL - COVER SHEET	X	X	X	X	X	X	X
G002	GENERAL - DRAWING INDEX	X		X	X	X	X	X
GI001	GENERAL - CONTRACTOR AND BASIS-OF-DESIGN PROTOCOL NOTES	X	X	X	X	X	X	X
GI002	GENERAL - PROTECTION PROTOCOL, SCOPE OF WORK AND MISC. NOTES	X	X	X	X	X	X	X
GI003	GENERAL - DEMOLITION AND INFECTION CONTROL NOTES	X	X	X	X	X	X	X
GI101.1	GENERAL - LIFE SAFETY PLAN - EXISTING SECOND FLOOR	X	X	X	X	X	X	X
GI101.2	GENERAL - LIFE SAFETY/SPACE PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	X	X	X	X	X	X	X
GI102	GENERAL - PHASING PLAN - PARTIAL FIRST AND SECOND FLOOR - K, B, C AREAS		X	X	X	X	X	X
GC401	GENERAL - INFECTION CONTROL PLAN - PARTIAL FIRST FLOOR - 1K, 1B, 1C AREAS	X		X	X	X	X	X
GC402	GENERAL - INFECTION CONTROL PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	X	X	X	X	X	X	X
GC501	GENERAL - INFECTION CONTROL - TYPICAL CLASS IV			X	X	X	X	X
05-ABATEMENT								
ASB-1	ABATEMENT - ASBESTOS ABATEMENT PLAN				X	X	X	X
06-STRUCTURAL								
S000	GENERAL NOTES			X	X	X	X	X
S001	TYPICAL DETAILS			X	X	X	X	X
SD102	STRUCTURAL - DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS			X	X	X	X	X
S101	STRUCTURAL - PARTIAL ROOF - 1B AREA					X	X	X
S102	STRUCTURAL - CONSTRUCTION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS			X	X	X	X	X
S200	DEMO ELEVATIONS OF EXISTING SHEAR WALLS			X	X	X	X	X
S201	ELEVATIONS OF EXISTING SHEAR WALLS			X	X	X	X	X
S202	EXTERIOR WALL ELEVATIONS			X	X	X	X	X
S300	DETAILS			X	X	X	X	X
07-ARCHITECTURE								
A001	ARCHITECTURAL - ABBREVIATIONS, SYMBOLS LEGEND, AND STANDARD MOUNTING HTS	X	X	X	X	X	X	X
A002	ARCHITECTURAL - TYPICAL SHEET NOTES AND LEGENDS	X	X	X	X	X	X	X
AD102	ARCHITECTURAL - DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	X	X	X	X	X	X	X
AD103	ARCHITECTURAL - DEMOLITION PLAN - PARTIAL ROOF - 4K, 1B AREAS	X	X	X	X	X	X	X
ACD101	ARCHITECTURAL - DEMOLITION CEILING PLAN - PARTIAL FIRST FLOOR - 1K, 1B AREAS	X		X	X	X	X	X
ACD102	ARCHITECTURAL - DEMOLITION CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	X	X	X	X	X	X	X
AE102	ARCHITECTURAL - FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	X	X	X	X	X	X	X
AE102.1	ARCHITECTURAL - FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1	X	X	X	X	X	X	X
AE102.2	ARCHITECTURAL - FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2	X	X	X	X	X	X	X
AE102.3	ARCHITECTURAL - FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3	X	X	X	X	X	X	X
AE103	ARCHITECTURAL - FLOOR PLAN - PARTIAL ROOF PLAN - 4K, 1B AREAS	X	X	X	X	X	X	X
AC101	ARCHITECTURAL - CEILING PLAN - PARTIAL FIRST FLOOR - 1K, 1B AREAS	X		X	X	X	X	X
AC102	ARCHITECTURAL - CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	X		X	X	X	X	X
AC102.1	ARCHITECTURAL - CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1	X	X	X	X	X	X	X
AC102.2	ARCHITECTURAL - CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2	X	X	X	X	X	X	X
AC102.3	ARCHITECTURAL - CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3	X	X	X	X	X	X	X
AE411	ARCHITECTURAL - INTERIOR ELEVATIONS			X	X	X	X	X
AE412	ARCHITECTURAL - INTERIOR ELEVATIONS			X	X	X	X	X
AE501	ARCHITECTURAL - PARTITION TYPES			X	X	X	X	X
AE511	ARCHITECTURAL - DETAILS			X	X	X	X	X
AE531	ARCHITECTURAL - CEILING DETAILS			X	X	X	X	X
AE541	ARCHITECTURAL - CASEWORK AND DETAILS			X	X	X	X	X
AE601	ARCHITECTURAL - DOOR SCHEDULE AND DETAILS			X	X	X	X	X
AF102	ARCHITECTURAL - FINISH PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS			X	X	X	X	X
AF601	ARCHITECTURAL - FINISH LEGEND AND SCHEDULE			X	X	X	X	X
AQ102.1	ARCHITECTURAL - EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1	X	X	X	X	X	X	X
AQ102.2	ARCHITECTURAL - EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2	X	X	X	X	X	X	X
AQ102.3	ARCHITECTURAL - EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3	X	X	X	X	X	X	X
AQ601	ARCHITECTURAL - EQUIPMENT SCHEDULE			X	X	X	X	X
AQ602	ARCHITECTURAL - EQUIPMENT SCHEDULE			X	X	X	X	X
AW101	ARCHITECTURAL - WAYFINDING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS			X	X	X	X	X
AW601	ARCHITECTURAL - WAYFINDING TYPES			X	X	X	X	X
10-FIRE PROTECTION								
FA001	FIRE PROTECTION - GENERAL NOTES, SYMBOLS AND ABBREVIATIONS		X	X	X	X	X	X
FA002	FIRE PROTECTION - SITE PLAN	X	X	X	X	X	X	X
FAD102B	FIRE PROTECTION - DEMOLITION SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA B	X	X	X	X	X	X	X
FAD102K	FIRE PROTECTION - DEMOLITION SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA K	X	X	X	X	X	X	X
FA102	FIRE PROTECTION - NEW WORK SPRINKLER PLAN - OVERALL SECOND FLOOR	X	X	X	X	X	X	X
FA102B	FIRE PROTECTION - NEW WORK SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA B	X	X	X	X	X	X	X
FA102K	FIRE PROTECTION - NEW WORK SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA K	X	X	X	X	X	X	X
FA700	FIRE PROTECTION - DETAILS	X	X	X	X	X	X	X
FAD101	FIRE ALARM DEMO PLAN - SECOND FLOOR - 2K,2B AREA				X	X	X	X
FA101	FIRE ALARM PLAN - SECOND FLOOR - 2K,2B AREA	X	X	X	X	X	X	X
FA601	FIRE ALARM RISER DIAGRAM - SECOND FLOOR - 2K,2B AREA	X	X	X	X	X	X	X
11 - PLUMBING								
P001	PLUMBING - GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X	X	X	X	X	X	X
PSD101B	PLUMBING - DEMOLITION SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA B	X	X	X	X	X	X	X
PSD101K	PLUMBING - DEMOLITION SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA K	X	X	X	X	X	X	X
PSD102B	PLUMBING - DEMOLITION SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA B	X	X	X	X	X	X	X
PSD102K	PLUMBING - DEMOLITION SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA K	X	X	X	X	X	X	X
PWD101B	PLUMBING - DEMOLITION DOMESTIC WATER PLAN - PARTIAL FIRST FLOOR - AREA B	X	X	X	X	X	X	X
PWD102B	PLUMBING - DEMOLITION DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA B	X	X	X	X	X	X	X
PWD102K	PLUMBING - DEMOLITION DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA K	X	X	X	X	X	X	X
PS101B	PLUMBING - NEW WORK SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA B			X	X	X	X	X
PS101K	PLUMBING - NEW WORK SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA K			X	X	X	X	X
PS102B	PLUMBING - NEW WORK SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA B			X	X	X	X	X
PS102K	PLUMBING - NEW WORK SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA K			X	X	X	X	X
PW101B	PLUMBING - NEW WORK DOMESTIC WATER PLAN - PARTIAL FIRST FLOOR - AREA B			X	X	X	X	X
PW102B	PLUMBING - NEW WORK DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA B			X	X	X	X	X
PW102K	PLUMBING - NEW WORK DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA K			X	X	X	X	X
P501	PLUMBING - DETAILS	X	X	X	X	X	X	X
P502	PLUMBING - DETAILS	X	X	X	X	X	X	X
P601	PLUMBING - DOMESTIC WATER RISER DIAGRAM - SECOND FLOOR			X	X	X	X	X
P602	PLUMBING - SANITARY AND VENT RISER DIAGRAM - SECOND FLOOR			X	X	X	X	X
P701	PLUMBING - SCHEDULES			X	X	X	X	X

DRAWING INDEX								
SHEET NUMBER	SHEET TITLE	35%	35% RE	65%	65% RE	95%	100%	IFB
13-MECHANICAL								
M001	MECHANICAL - GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X	X	X	X	X	X	X
MVD102	MECHANICAL - VENTILATION DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS			X	X	X	X	X
MPD102	MECHANICAL - PIPING DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS			X	X	X	X	X
MD103	MECHANICAL - DEMOLITION PLAN - PARTIAL ROOF PLAN - 4K, 1B AREAS			X	X	X	X	X
MD201	MECHANICAL - ENLARGED PLANS - PARTIAL THIRD FLOOR DEMOLITION			X	X	X	X	X
MV102	MECHANICAL - VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	X	X	X	X	X	X	X
MV102.1	MECHANICAL - VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1	X	X	X	X	X	X	X
MV102.2	MECHANICAL - VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2	X	X	X	X	X	X	X
MV102.3	MECHANICAL - VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3	X	X	X	X	X	X	X
MP10B	MECHANICAL - PIPING PLAN - PARTIAL BASEMENT FLOOR	X	X	X	X	X		X
MP102	MECHANICAL - PIPING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	X	X	X	X	X	X	X
M103	MECHANICAL - PARTIAL ROOF PLAN - 4K, 1B AREAS			X	X	X	X	X
M201	MECHANICAL - ENLARGED PLANS - MECHANICAL ROOM 2224			X	X	X	X	X
M202	MECHANICAL - ENLARGED PLANS - PARTIAL FIRST FLOOR			X	X	X	X	X
MA102	MECHANICAL - AIR PRESSURIZATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS				X	X	X	X
M501	MECHANICAL DETAILS			X	X	X	X	X
M502	MECHANICAL DETAILS			X	X	X	X	X
M503	MECHANICAL DETAILS			X	X	X	X	X
M504	MECHANICAL DETAILS			X	X	X	X	X
M505	MECHANICAL DETAILS					X	X	X
M601	MECHANICAL SCHEDULES			X	X	X	X	X
M602	MECHANICAL SCHEDULES			X	X	X	X	X
M701	MECHANICAL CONTROLS			X	X	X	X	X
M702	MECHANICAL CONTROLS			X	X	X	X	X
14-ELECTRICAL								
E001	ELECTRICAL - GENERAL NOTES		X	X	X	X	X	X
E002	ELECTRICAL - SYMBOLS AND ABBREVIATIONS		X	X	X	X	X	X
EPD102	ELECTRICAL - POWER DEMOLITION PLAN - SECOND FLOOR - 2K, 2B AREA	X		X	X	X	X	X
ELD102	ELECTRICAL - LIGHTING DEMOLITION PLAN - SECOND FLOOR - 2K, 2B AREAS	X		X	X	X	X	X
ED500	ELECTRICAL - SINGLE LINE DIAGRAM - DEMOLITION		X	X	X	X	X	X
EP101	ELECTRICAL - POWER PLAN - PARTIAL FIRST FLOOR ROOF - 1B AREA			X	X	X	X	X
EP102A	ELECTRICAL - POWER PLAN SECOND FLOOR - 2K, 2B AREAS - ZONE 1			X	X	X	X	X
EP102B	ELECTRICAL - POWER PLAN SECOND FLOOR - 2K, 2B AREAS - ZONE 2			X	X	X	X	X
EH102	ELECTRICAL - HVAC POWER PLAN - SECOND FLOOR - 2K, 2B AREA			X	X	X	X	X
EL102A	ELECTRICAL - LIGHTING PLAN - SECOND FLOOR - 2K, 2B AREAS - ZONE 1			X	X	X	X	X
EL102B	ELECTRICAL - LIGHTING PLAN - SECOND FLOOR - 2K, 2B AREAS - ZONE 2			X	X	X	X	X
E400	ELECTRICAL - ENLARGED PLAN			X	X	X	X	X
E500	ELECTRICAL - SINGLE LINE DIAGRAM			X	X	X	X	X
E600	ELECTRICAL - LIGHTING FIXTURE AND LIGHTING CONTROL DEVICE SCHEDULES		X	X	X	X	X	X
E601	ELECTRICAL - PANEL SCHEDULES			X	X	X	X	X
E602	ELECTRICAL - PANEL SCHEDULES				X	X	X	X
E700	ELECTRICAL - DETAILS			X	X	X	X	X
E701	ELECTRICAL - DETAILS			X	X	X	X	X
15-ICT								
T001	ICT - LEGEND, SYMBOLS AND ABBREVIATIONS		X	X	X	X	X	X
TD102.1	ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K AREA			X	X	X	X	X
TD102.2	ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2B AREA			X	X	X	X	X
TD102	ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND & THIRD FLOOR				X	X	X	X
T102.1	ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR - 2K AREA			X	X	X	X	X
T102.2	ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR - 2B AREA			X	X	X	X	X
T102.3	ICT - TELECOMMUNICATIONS CABLE TRAY - PARTIAL SECOND FLOOR - 2K, 2B AREAS			X	X	X	X	X
T102	ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR				X	X	X	X
T103	ICT - TELECOMMUNICATIONS PLAN - THIRD FLOOR			X	X	X	X	X
TS102.1	ICT - SECURITY PLAN - PARTIAL SECOND FLOOR - 2K AREA			X	X	X	X	X
TS102.2	ICT - SECURITY PLAN - PARTIAL SECOND FLOOR - 2B AREA			X	X	X	X	X
T411	ICT - TELECOMMUNICATIONS RISER DIAGRAM			X	X	X	X	X
T511	ICT - DETAILS		X	X	X	X	X	X
T512	ICT - DETAILS			X	X	X	X	X
T513	ICT - DETAILS					X	X	X

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100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
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Revisions:	**Date:**

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ARCHITECT/ENGINEER OF RECORD

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LICENSED ARCHITECT DENNIS J WAX 001-013989 STATE OF ILLINOIS
Exp. 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
GENERAL - DRAWING INDEX

Approved: Project Director

Phase
ISSUED FOR BID

FULLY SPRINKLERED

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location
BIRMINGHAM VAMC

Issue Date 05/15/2026 | **Checked** CR | **Drawn** LD

Project Number 521-24-102

Building Number #1

Drawing Number G002

VA FORM 08-6231

GENERAL NOTES FOR CONTRACTORS

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL PUBLISHED APPLICABLE NATIONAL CODES, ORDINANCES AND REGULATIONS ALONG WITH ALL RELATED VA DIRECTIVES, DESIGN GUIDES AND MANUALS, SPECIFICATIONS AND STANDARDS PLUS ALL VA REQUIREMENTS THAT ARE PROJECT SPECIFIC TO THE DOCUMENTED SCOPE OF WORK ON THIS SITE.

2. EACH CONTRACTOR SHALL HAVE PUBLIC LIABILITY, PROPERTY DAMAGE AND WORKMAN'S COMPENSATION INSURANCE AS REQUIRED BY THE VA IN THE BIDDING DOCUMENTATION. CONTACT THE VA/CO DURING THE BIDDING PHASE WITH ANY QUESTIONS, VERIFICATIONS, AND DOCUMENTATION NECESSARY CONCERNING ALL REQUIREMENTS FOR PROJECT INSURANCE COVERAGE.

3. BEFORE SUBMITTING A BID, ALL CONTRACTORS WILL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS SO AS TO BE THOROUGHLY FAMILIAR WITH ALL THE CONTRACT REQUIREMENTS. EACH BIDDER SHOULD THEN VISIT THE SITE OF THE WORK TO BECOME ACQUAINTED WITH ALL VISIBLE FIELD CONDITIONS AFFECTING THE CONTRACT, SUCH AS OBSTACLES WHICH MAY BE ENCOUNTERED AND ALL OTHER CONDITIONS RELATIVE TO WHAT COULD AFFECT/IMPACT THE WORK OR BE AFFECTED BY THE PERFORMANCE OF THE WORK.

4. IF AWARDED THE CONTRACT, THE CONTRACTORS SHALL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY UNFORESEEN DIFFICULTIES OR OBSTACLES WHICH THE BIDDER COULD HAVE REASONABLY ANTICIPATED PRIOR TO BIDDING. SHOULD ANY DISCREPANCIES, ERRORS, CONFLICT OR ITEMS NEEDING CLARIFICATION BE DISCOVERED IN THE PLANS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE VA/CO PRIOR TO SUBMITTING A BID AND THE VA/COR BEFORE STARTING ANY OF THE WORK.

5. CONTRACTORS SHALL REFERENCE ALL DRAWINGS IN ALL SECTIONS OF WORK FOR FULLY DEFINING THEIR SCOPE OF WORK RESPONSIBILITIES AND COORDINATE SAME WITH THE GENERAL/PRIME CONTRACTOR. SUBCONTRACTORS AND SUPPLIERS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR SCOPE OF WORK ALSO OCCURS IN OTHER SECTIONS OF THE DRAWINGS AND THE COMPLETE SET OF CONTRACT DOCUMENTS.

6. ALL ENGINEERING SYSTEMS WORK INCLUDED IN THE CONTRACT DRAWINGS SHALL BE TAKEN IN A SENSE AS A DIAGRAMMATIC REPRESENTATION OF ITS INTENDED PLACEMENT AND DISTRIBUTION WITHIN THE GENERAL PROXIMITY WHERE SHOWN. THE SIZE AND THE MEANS OF RUNNING DISTRIBUTION SYSTEMS ARE SHOWN BUT IT IS NOT INTENDED TO SHOW EVERY CONNECTION, FITTING, OFFSET, SUPPORT ELEMENT, OR EVERY STRUCTURAL DIFFICULTY THAT CAN BE ENCOUNTERED DURING THE INSTALLATION OF THE WORK.

7. PROJECT LIMIT LINES ARE SHOWN ON THE DRAWINGS FOR ORIENTATION PURPOSES ONLY AND SHOULD NOT BE CONSTRUED TO INDICATE THE FULL EXTENT OR LIMITS OF THE AREA(S) OF WORK.

8. EACH CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK SHALL FULLY COORDINATE AND VERIFY WITH ALL OTHER CONTRACTORS, OTHER TRADES AND THE VA/COR CONCERNING ALL SPACE REQUIREMENTS FOR THIS PROJECT. THE GENERAL/PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATING, DOCUMENTING AND COORDINATING ALL SPACE REQUIREMENTS WITH THE VA/COR TO AVOID CONFLICTS AND MISCOMMUNICATION.

9. ALL EXISTING BUILDING UTILITIES AND INFRASTRUCTURE SERVICES SYSTEMS THAT FEED OTHER SPACES OUTSIDE THE DEMISED PROJECT AREA AND THAT ARE LOCATED WITHIN THE AREA OF WORK, THEREBY INTERFERING WITH THE NEW CONSTRUCTION, SHALL BE REROUTED AND RELOCATED AS REQUIRED TO MAINTAIN FULL SERVICE TO THE AFFECTED AREAS.

10. ALL FINISHED AREAS ADJACENT TO OR INCLUDED WITHIN THE AREA(S) OF CONSTRUCTION ALONG WITH ALL PUBLIC PROJECT ACCESS ROUTES SHALL BE PROTECTED FROM DUST AND DIRT THROUGH THE USE OF VA/COR APPROVED DUSTPROOF PROTECTION. SEE THE OCCUPIED AREA PROTECTION PROTOCOLS PROVIDED IN THE "GENERAL" DRAWINGS SECTION AND COORDINATE ALL SITE SPECIFIC CONDITIONS IMPACTS ENCOUNTERED WITH THE VA/COR.

11. DO NOT SCALE THE DRAWINGS. USE THE GIVEN DIMENSIONS.

12. THE GENERAL/PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL SHOP DRAWING REQUIREMENTS WITH ALL OF THE AFFECTED TRADES, THE VA/COR AND WITH THE AE.

13. OBTAIN ALL REQUIRED VA/COR AUTHORIZATIONS BEFORE BEGINNING ANY DEMOLITION WORK OR NEW CONSTRUCTION, INCLUDING TEMPORARY BARRICADES AND PROTECTION WORK.

14. EACH CONTRACTOR SHALL MAINTAIN A COMPETENT OSHA-30 FOREMAN OR EQUALLY QUALIFIED DIRECT REPRESENTATIVE ON THE JOB SITE AT ALL TIMES.

15. EACH CONTRACTOR SHALL COOPERATE AND COORDINATE WITH THE GENERAL/PRIME CONTRACTOR'S SUPERINTENDENT AND WITH THE FOREMAN OF ALL OTHER TRADES IN ORDER THAT THERE BE NO DELAYS IN THE EXECUTION AND COMPLETION OF THE WORK.

16. DURING CONSTRUCTION EACH CONTRACTOR SHALL KEEP ON SITE ACCURATE FIELD RECORDS OF ALL CONCEALED AND VISUALLY ACCESSIBLE WORK THAT DIFFERS FROM THE CONTRACT DRAWINGS/DOCUMENTS. THESE AS-BUILT MARKED-UP RECORD DRAWINGS/DOCUMENTS WILL BE KEPT UP TO DATE BY THE GENERAL/PRIME CONTRACTOR AND PROVIDED TO THE VA/COR FOR DISTRIBUTION AT THE COMPLETION OF THE PROJECT.

17. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO ADEQUATELY PROTECT EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE DURING BOTH THE DEMOLITION AND CONSTRUCTION SEQUENCES OF WORK. ANY DAMAGE TO SUCH AREAS SHALL BE RESTORED AND REFINISHED TO A "LIKE-NEW" CONDITION PRIOR TO THE VA/COR'S ACCEPTANCE OF THAT WORK.

18. THE GENERAL/PRIME CONTRACTOR IS RESPONSIBLE FOR THE PATCH, REPAIR, REFINISHING AND/OR REPLACEMENT OF ALL CONSTRUCTION, MATERIALS, ASSEMBLIES, EQUIPMENT, SIGNAGE AND FINISHES DAMAGED BY THE PROJECT DEMOLITION, TEMPORARY CONSTRUCTION, NEW CONSTRUCTION OR THE MOVEMENT OF PERSONNEL, TOOLS, EQUIPMENT, MATERIALS, ETC. BOTH INSIDE AND OUTSIDE OF THE DESIGNATED AREAS OF WORK.

19. PROVIDE THE CUTTING AND PATCHING FOR ALL DEMOLITION WORK AND ALL NEW CONSTRUCTION WORK BEING PERFORMED OUTSIDE OF THE PROJECT LIMIT LINES AS REQUIRED TO PROPERLY COMPLETE THE PROJECT SCOPE OF WORK.

20. ALL CUTTING, CORING AND DRILLING OF EXISTING CONCRETE AND MASONRY CONSTRUCTION SHALL NOT DAMAGE EXISTING REINFORCING STEEL, PIPING, CONDUITS OR OTHER CONCEALED CONSTRUCTION WITHIN. PRIOR TO CORING, DRILLING, CUTTING OR PERFORMING ANY BREAKING EFFORTS, PROVIDE SCANNING OF THE INTENDED AREAS AND DOCUMENT THE EXACT SIZE AND LOCATIONS OF ALL SUCH INTERFERENCES. COORDINATE WITH AND OBTAIN VA/COR APPROVAL BEFORE PROCEED WITH ANY SUCH REQUIRED PENETRATIONS WORK.

21. RELOCATIONS OF ANY INFRASTRUCTURE DISTRIBUTION SYSTEMS OR EQUIPMENT, WHICH MAY ALTER THE ARCHITECTURAL OR STRUCTURAL CONSTRUCTION, MUST BE APPROVED FIRST BY THE VA/COR PRIOR TO STARTING ITS RELOCATION.

22. THE GENERAL/PRIME CONTRACTOR IS RESPONSIBLE TO PROVIDE THE REMOVAL OF ALL CONSTRUCTION DEMOLITION DEBRIS, SPOIL AND MATERIALS FROM THE PROJECT SITE ON A DAILY BASIS UNLESS SPECIFICALLY REFERENCED OTHERWISE IN THE PROJECT SPECIFIC LOGISTICAL SEQUENCING REQUIREMENTS.

23. CONTRACTORS TO ENSURE ALL FIRE RESISTIVE RATINGS ARE MAINTAINED PER LOCATIONS SHOWN ON THE DRAWINGS AND AS DISCOVERED IN THE FIELD. ALL PENETRATIONS ARE TO BE SEALED BY AN APPROVED UL FIRESTOPPING SYSTEM. SEAL ALL EXISTING PENETRATIONS EXPOSED DURING CONSTRUCTION AS PER THE APPROVED UL FIRESTOPPING SYSTEM INSTALLATION REQUIREMENTS. FOLLOW THE MANUFACTURE'S DESIGN RECOMMENDATIONS FOR THE PROPER FIRE STOPPING MATERIAL TO BE USED IN EACH SPECIFIC APPLICATION.

24. ALL FIRESTOPS SHALL MATCH THE FIRE RATING OF THE CONSTRUCTION BEING PENETRATED, SUCH AS WALLS, FLOORS, CEILINGS, PARTITIONS ETC. AND SHALL COMPLY WITH ALL CODE REQUIREMENTS. USE ONLY A SINGLE (FMRC) APPROVED MANUFACTURERS LINE OF PRODUCTS FOR ALL PROJECT FIRESTOPPING.

25. PROVIDE AN HOURLY RATED FIRESTOP AT ALL PENETRATIONS OF RATED CONSTRUCTION AND/OR ASSEMBLIES, WHETHER NEW OR EXISTING, AND AS A DIRECT RESULT OF THE PROJECT DEMOLITION WORK OR NEW CONSTRUCTION. WHERE COMBUSTIBLE PENETRANTS OCCUR USE A FIRE RATED INTUMESCENT MATERIAL AND WHERE NONCOMBUSTIBLE PENETRANTS OCCUR USE A FIRE RATED ENDOTHERMIC MATERIAL. ALL FIRESTOPPING WORK MUST BE APPROVED BY THE VA/COR BEFORE CONCEALED BY CONSTRUCTION.

OCCUPIED AREA PROTECTION PROTOCOLS

VERIFY AND COORDINATE ALL PROTECTION REQUIREMENTS TO BE PROVIDED FOR EACH SPECIFIC AREA OR LOCATION OF SCHEDULED WORK WITH THE VA/COR, BEFORE BEGINNING ANY WORK. WHEN PERFORMING CONSTRUCTION WORK (DEMOLITION OR NEW) IN OCCUPIED SPACES, THE FOLLOWING PROTECTION PROTOCOLS WILL BE FOLLOWED ON A DAILY BASIS UNLESS MODIFIED IN WRITING BY THE VA/COR ON A CASE BY CASE BASIS:

1. CAREFULLY MOVE/RELOCATE ANY SIGNAGE, WALL HUNG ITEMS, BLINDS, CURTAINS, ETC. THAT ARE WITHIN THE AREA/ZONE WHERE THE WORK IS TO BE ACCOMPLISHED AND IN DANGER OF BEING DAMAGED BY THE PERFORMANCE OF THE WORK, INCLUDING DAMAGE THAT CAN BE CAUSED BY FALLING OBJECTS, DUST OR MOISTURE. NOTE: THIS ALSO APPLIES TO THE DIRECT ACCESS ROUTE(S) THRU THE OCCUPIED AREA(S) TO AND FROM THE ACTUAL WORK AREA/ZONE. NOTE: THE VA/COR WILL BE RESPONSIBLE TO MOVE/RELOCATE ANY FURNITURE, EQUIPMENT, BOXES, FILES, USER BELONGINGS, ETC. THAT WOULD BE IN THE AREA OF WORK AND OBSTRUCT/INTERFERE WITH THE PERFORMANCE OF THE CONTRACTOR'S WORK. COORDINATE ALL REQUIRED VA RELOCATIONS WITH VA/COR.

2. CAREFULLY PROVIDE FULL PROTECTIVE DUST, MOISTURE AND DAMAGE PREVENTION BARRIERS/COVERS FOR ALL SUCH ITEMS ADDRESSED ABOVE INCLUDING THE ADDITIONAL PROTECTION OF ALL WALL SURFACES/FINISHES, WINDOWS/GLAZING, DOORS, FRAMES, HARDWARE, CARPETING, FLOOR COVERINGS, WALL BASE, ELECTRICAL DEVICES, WALL/CEILING MOUNTED EQUIPMENT & CONTROLS, CEILING CONSTRUCTION, TILE, GRID, WALL ANGLES, LIGHT FIXTURES, DIFFUSERS, GRILLES, LIFE SAFETY DEVICES, FIRE SPRINKLER HEADS, ETC.

3. FLOOR FINISHES SHALL BE PROTECTED THROUGHOUT THE AREA WITH A 6 MIL HEAVY DUTY STRING REINFORCED FIRE RETARDANT POLYETHYLENE SHEETING (VISQUEEN) AND/OR TEMPORARY TARPAULIN(S)/DROP CLOTH(S) AS A MINIMUM FOR DUST, MOISTURE AND VERY LIGHT FOOT TRAFFIC PROTECTION.

4. ALL MAIN TRAFFIC AREAS TO AND INSIDE THE WORK ZONE/AREAS SHALL HAVE ADDITIONAL PROTECTION PROVIDED OVER THE 6 MIL HEAVY DUTY STRING REINFORCED FIRE RETARDANT POLYETHYLENE SHEETING (VISQUEEN), IN THE FORM OF FULL SHEETS OF 3/16 " TEMPERED HARDBOARD (MASONITE) 4'X8' PANELS. ALL MASONITE PANELS SHALL BE FIRMLY HELD TOGETHER AND SECURED IN PLACE VIA THE USE OF AN INDUSTRY APPROVED 2" HEAVY DUTY CONSTRUCTION ADHESIVE TAPE, INTENDED FOR THIS APPLICATION. NOTE: ALL BOARD TO BOARD JOINTS WILL BE FULLY TAPED THE LENGTH OF THE JOINT AND ALL BOARD TO VISQUEEN JOINTS WILL BE TAPED AT 4' ON CENTER WITH A MINIMUM 8 " LENGTH OF TAPE. PAINTERS TAPE AND/OR MASKING TAPE ARE NOT CONSIDERED EQUIVALENTS TO THE HEAVY DUTY CONSTRUCTION ADHESIVE TAPE BEING SPECIFIED.

5. CONSTRUCT A TEMPORARY FULL HEIGHT, FULLY SEALED, CONTAINMENT ENCLOSURE (1-HOUR RATED) AROUND ALL CONSTRUCTION AREAS/ZONES IN ORDER TO CONTAIN AS MUCH DUST AND DEBRIS AS POSSIBLE DURING THE PERFORMANCE OF ANY DEMOLITION, CONSTRUCTION AND CLEAN-UP WORK.

6. THE TEMPORARY FULL HEIGHT CONTAINMENT ENCLOSURES SHOULD BE CONSTRUCTED OF A MINIMUM 6 MIL HEAVY DUTY STRING REINFORCED FIRE RETARDANT POLYETHYLENE SHEETING (VISQUEEN) WITH THE USE OF THE APPROPRIATE TELESCOPICALLY ADJUSTABLE ALUMINUM OR METAL VERTICAL SPRING LOADED SUPPORT STUDS/POLES. FULL HEIGHT FOAM PADDED RAILS, PRESSURE FIT AT ALL PERIMETER WALL/PARTITION CONNECTION CONDITIONS ARE TO BE UTILIZED IN ORDER TO MINIMIZE THE USE OF TAPE SEALS ON ALL FINISHED WALL SURFACES. THESE CONTAINMENT ENCLOSURES ARE LIMITED IN USE - REFER TO INFECTION CONTROL PLANS AND DETAILS FOR LOCATIONS.

7. WHEN ALL WORK IS COMPLETED FOR THE PREARRANGED SPECIFIC LOCATION(S), SCHEDULED TASKING AND IDENTIFIED PERIOD OF TIME THE ENTIRE AREA IS TO BE FULLY CLEANED-UP, ALL TEMPORARY CONTAINMENT ENCLOSURES AND PROTECTION REMOVED WITH ALL ITEMS IDENTIFIED IN NOTE #1 RETURNED TO THEIR PRIOR FUNCTIONING POSITIONS. NOTE: FULLY CLEANED-UP MEANS COMMERCIALLY VACUUM CLEANED WITH ALL SURFACES BEING FULLY WIPED DOWN AND DUST FREE AS THE CONTRACTOR ACCEPTED THE AREA/SPACE PRIOR TO PERFORMING THE WORK.

8. ALL SPACES WILL BE RETURNED TO THE USER, BY THE CONTRACTOR, AS A COMMERCIALLY CLEAN ENVIRONMENT WITH ALL OPEN CONSTRUCTION SURFACES SEALED WITH TEMPORARY CONSTRUCTION MATERIALS INCLUDING THE USE OF 6 MIL HEAVY DUTY STRING REINFORCED FIRE RETARDANT POLYETHYLENE SHEETING (VISQUEEN), IN ORDER TO AVOID DUST PARTICLES FROM THE CONSTRUCTION AREA MIGRATING INTO THE OCCUPIED USER'S AREA/SPACE/ROOM(S).

9. UNLESS DIRECTLY SPECIFIED AND CONFIRMED BY THE VA/COR OTHERWISE, ALL TEMPORARY PROTECTION AND ENCLOSURES ARE TO BE SET-UP AND KNOCKED-DOWN ON A DAILY BASIS SUCH THAT THE USERS OF THE OCCUPIED AREAS ARE NOT TO BE INCONVENIENCED AND PREVENTED FROM FUNCTIONING WITHIN THEIR SPACE/AREA/ROOM(S) DURING THEIR NORMAL BUSINESS HOURS OF OPERATION.

10. THE BASIS OF DESIGN FOR ALL 6 MIL HEAVY DUTY STRING REINFORCED FIRE RETARDANT POLYETHYLENE SHEETING WILL BE IN FULL COMPLIANCE WITH NFPA 701-04, ASTM E84 AND CPAI 84 SECTION 6. IT SHALL BE MANUFACTURED WITH 3 PLY CONSTRUCTION CONSISTING OF FIRE RETARDANT VIRGIN POLYETHYLENE IN THE (2) OUTER LAYERS OF PLASTIC WITH A DIAMOND SCRIM REINFORCING MESH PLACED BETWEEN.

11. MOBILE CONTAINMENT SYSTEMS MAY BE UTILIZED WHERE APPLICABLE, IF APPROVED FOR USE BY THE VA/COR. MOBILE UNITS SHALL BE FULLY EQUIPPED WITH A NEGATIVE AIR HEPA FILTRATION SYSTEM THAT IS IN COMPLIANCE WITH THE INFECTION CONTROL REQUIREMENTS OF EACH SPECIFIC AREA OF WORK AND TASK BEING PERFORMED.

BASIS OF DESIGN (BOD) COMPLIANCE PROTOCOLS

INTENT:
1. TO ORGANIZE AND IDENTIFY THE "EQUIVALENCY SUBSTITUTION PROCESS " IN ORDER TO FORMALIZE THE PROCESS, CLARIFY RESPONSIBILITIES, PROACTIVELY MANAGE THE PROCESS AND MINIMIZE COSTLY DELAYS IN THE EXECUTION OF THE WORK.

2. THERE ARE NO INTENDED RESTRICTIONS LIMITING COMPETITION ON THE EQUIVALENT SUBSTITUTION OF MATERIALS, EQUIPMENT, HARDWARE, FINISHES, CONTROLS, SYSTEMS AND THEIR INCLUSIVE PARTS, DETAILED ASSEMBLIES, RELATED DESIGN ELEMENTS AND PERFORMANCE CHARACTERISTICS, UNLESS AS IDENTIFIED IN THE BID SOLICITATION.

SUMMARY DESCRIPTION:
1. THE BASIS OF DESIGN (BOD) INCORPORATES THE DESIGN INTENT AND PERFORMANCE BASED CHARACTERISTICS FOR ALL MATERIALS, SYSTEMS AND WORKMANSHIP THAT IS INCLUDED IN THE CONSTRUCTION DOCUMENTS AND REFERENCED BY SAME.

2. THE BOD COMPLIANCE PROTOCOLS ARE TO BE FOLLOWED FOR ALL PROPOSED EQUIVALENT SUBSTITUTIONS, DEPARTURES OR ADJUSTMENTS FROM THE CONSTRUCTION DOCUMENT DRAWINGS, DETAILING, AND SPECIFICATIONS PROVIDED THE SUBSTITUTIONS, DEPARTURES, OR ADJUSTMENTS MEET THE DESIGN INTENT, SCOPE OF WORK (SOW) CRITERIA REQUIREMENTS, AND PERFORMANCE BASED CHARACTERISTICS.

3. NO SUCH EQUIVALENT SUBSTITUTION, DEPARTURES OR ADJUSTMENTS WILL BE ALLOWED WITHOUT FIRST GOING THROUGH THE BOD COMPLIANCE PROTOCOLS PROCESS AND OBTAINING THE GOVERNMENT 'S APPROVAL FROM THE CONTRACTING OFFICER (CO).

BOD COMPLIANCE PROTOCOLS

1. THE BOD COMPLIANCE PROTOCOLS APPLY TO ALL MATERIALS, EQUIPMENT, HARDWARE, FINISHES, CONTROLS, ENGINEERING SYSTEMS AND THEIR INCLUSIVE PARTS, DETAILED ASSEMBLIES, IMPACTED ELEMENTS OF WORK PLUS ALL RELATED DESIGN CRITERIA ELEMENTS AND SPECIFIED PARAMETERS THAT ARE CONTAINED WITHIN THE BID/ISSUED FOR CONSTRUCTION DRAWINGS AND SPECIFICATIONS DOCUMENTATION, OR AS SPECIFICALLY REFERENCED BY SAME.

2. SPECIFIC DESIGN INTENT AND PERFORMANCE CHARACTERISTICS REQUIRING BOD COMPLIANCE ANALYSIS WILL VARY WITH EACH SPECIFIC ITEM BEING PROPOSED AS AN EQUIVALENT SUBSTITUTION AND WILL NEED TO BE FULLY COMPARED AND ANALYZED TO ESTABLISH BOD EQUIVALENCY COMPLIANCE.

3. CRITICAL DESIGN CHARACTERISTICS AND ELEMENTS ARE SPECIFIC TO EACH ITEM NEEDING CONSIDERATION AND COULD CONSIST OF, BUT NOT LIMITED TO, CRITERIA SUCH AS DIMENSIONAL LOGISTICS, PERFORMANCE CHARACTERISTICS, CAPACITY, DUTY REQUIREMENTS, OPERATIONAL EFFICIENCIES, ACOUSTICAL REQUIREMENTS, UTILITIES IMPACTS, CONNECTION ADJUSTMENTS, DETAILING DEPARTURES, FRAMING ALTERATIONS, ROUGH IN REQUIREMENTS, WEIGHT INCREASES AND/OR DISTRIBUTIONS, STRUCTURAL IMPACTS, ATTACHMENTS, SUPPORTS, FINISHES, AVAILABILITY, COMPATIBILITY, CONSTRUCTABILITY, WARRANTIES, SERVICE LIFE, MAINTENANCE REQUIREMENTS, ENVIRONMENTAL CONSIDERATIONS, LEED RELATED DESIGN CONSIDERATIONS, ETC.

4. A VERY CRITICALLY IMPORTANT DESIGN CHARACTERISTIC OF ALL BOD ITEMS NEEDING TO BE FULLY EVALUATED AND PROPERLY COORDINATED WOULD BE THE DESIGN AND LAYOUT OF DIMENSIONAL LOGISTICS REQUIREMENTS. THOSE CRITICAL PARAMETERS COULD CONSIST OF, BUT NOT LIMITED TO, ALL DIMENSIONAL ELEMENTS THAT AFFECT SIZE, HEIGHT, WIDTH, DEPTH, THICKNESS, PLACEMENT, SPACING, CLEARANCES, ACCESS, MOUNTING, CONNECTIONS AND LOCATION REQUIREMENTS, INSTALLATION TOLERANCES, OPERABLE ELEMENT CLEARANCES, ETC., ALL OF WHICH COULD IMPACT OTHER AREAS OF CONSTRUCTION OR COMPONENTS OF WORK REQUIRING ADJUSTMENTS IN ORDER TO COMPLY WITH THE DESIGN INTENT.

5. CONTRACTORS WILL BE RESPONSIBLE TO FULLY IDENTIFY ALL PROPOSED EQUIVALENT SUBSTITUTIONS, DEPARTURES, IMPACTS, ALTERATIONS AND ADJUSTMENTS FROM THE "BASIS OF DESIGN" INTENT TO THE GENERAL/PRIME CONTRACTOR DURING THE BIDDING PROCESS AND OBTAIN THEIR APPROVAL BEFORE COMPLETING THEIR PRICING AND SUBMITTING A BID TO SAME.

6. IF A PROPOSED EQUIVALENT SUBSTITUTION ITEM WILL REQUIRE THAT ALTERATIONS AND/OR ADJUSTMENTS NEED TO BE MADE, TO THE WORK OF THE PROVIDING CONTRACTOR, THE WORK OF OTHER CONTRACTORS OR THE WORK OF THE VA, THE SUBMITTING CONTRACTOR SHALL BE FULLY RESPONSIBLE TO INFORM AND ADVISE THE GENERAL/PRIME CONTRACTOR OF ANY AND ALL SUCH NECESSARY IMPACTS REQUIRED AS A PART OF THEIR BIDDING AND FUTURE CONTRACTUAL SCOPE OF WORK RESPONSIBILITIES.

7. THE CONTRACTOR PROPOSING THE EQUIVALENT SUBSTITUTION SHALL BE RESPONSIBLE FOR ALL RELATED WORK AND SHALL IDENTIFY, VERIFY, COORDINATE AND PROVIDE ENGINEERED SOLUTIONS FOR ALL IMPACT ISSUES AFFECTING INFRASTRUCTURE SYSTEMS, UTILITIES SERVICES, BUILDING STRUCTURE, SURROUNDING ELEMENTS, AND SYSTEMS AFFECTED FROM WEIGHT DIFFERENTIALS, REVISED LOADING CHARACTERISTICS, CONNECTION AND MOUNTING VARIANCES, INSTALLATION CONFLICTS AND DETAILING ALTERATIONS OR ADJUSTMENTS, ETC. CAUSED BY THE EQUIVALENT SUBSTITUTION REQUIREMENTS.

8. SPECIAL ATTENTION NEEDS TO BE PAID TO ANY SYSTEMS EQUIPMENT AND MATERIAL PERFORMANCE CHARACTERISTICS INCLUDING ALL ASPECTS OF THEIR DIMENSIONAL LOGISTICS FEATURES AND REQUIREMENTS ALONG WITH ANY STRUCTURAL AND UTILITIES IMPACTS.

9. EACH EQUIVALENT SUBSTITUTION REQUEST ALONG WITH ANY AND ALL IMPACTS, VARIANCES, ALTERATIONS OR ADJUSTMENTS REQUIRED TO OTHER ELEMENTS OF WORK WILL ALSO REQUIRE VA/CO APPROVAL(S) BEFORE ANY SUCH REQUEST IS DEEMED APPROPRIATE BY THE GOVERNMENT AND ALLOWED TO PROCEED INTO THE NORMAL SHOP DRAWING PREPARATION, SUBMITTAL AND REVIEW PROCESS.

10. NO REQUEST FOR AN EQUIVALENT SUBSTITUTION REVIEW IS ALLOWED TO BE MADE VIA A SHOP DRAWING SUBMISSION. ANY SUCH SUBMISSION WILL NOT BE REVIEWED AND WILL BE REJECTED AS NON-CONFORMING WITH THE DESIGN INTENT AND NOTED THAT THE CONTRACTOR IS TO FOLLOW THE STANDARD BOD COMPLIANCE PROTOCOLS.

11. ANY UNDOCUMENTED OR UNFORESEEN IMPACTS, VARIANCES, ALTERATIONS OR ADJUSTMENTS REQUIRED TO ELEMENTS OF WORK AS A RESULT OF AN EQUIVALENCY SUBSTITUTION THAT SURFACE DURING THE CONSTRUCTION PHASE SHALL IMMEDIATELY BE MADE KNOWN TO THE GENERAL/PRIME CONTRACTOR WHO WILL IN TURN NOTIFY THE VA/COR. ALL SUCH UNDOCUMENTED OR UNFORESEEN CONDITIONS WILL BE FULLY IDENTIFIED, DOCUMENTED AND SUBMITTED TO THE VA/COR FOR REVIEW, EVALUATION AND DIRECTION(S) ON HOW TO PROCEED.

12. ANY NON-COMPLIANT EQUIVALENT SUBSTITUTIONS WORK FOUND TO BE IN PLACE DURING THE CONSTRUCTION PHASE THAT HAD NOT GONE THROUGH THE BOD COMPLIANCE PROTOCOLS APPROVAL PROCESS AND THAT DOESN 'T HAVE THE VA/CO 'S APPROVAL WILL BE SUBJECT TO POSSIBLE REJECTION AND REMOVAL AS DETERMINED BY THE GOVERNMENT.

13. THE FINAL INSTALLATION OF ANY EQUIVALENT SUBSTITUTION AND ITS IMPACTS SHALL NOT COMPROMISE ANY OF THE BOD PERFORMANCE CHARACTERISTICS NOR SHALL IT ENCUMBER ANY OF THE ASSOCIATED DESIGN INTENT LAYOUT AND DIMENSIONAL LOGISTICS REQUIREMENTS.

14. ALL EQUIVALENT SUBSTITUTION INSTALLATIONS AND THEIR IMPACTS TO OTHER SOW ELEMENTS SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND VA REQUIREMENTS, PLUS ALLOW ANY SYSTEMS, EQUIPMENT AND/OR MATERIALS TO FUNCTION PROPERLY AND SAFELY.

BOD EQUIVALENT SUBSTITUTIONS PROCESS SEQUENCE

STEP 1: BIDDING PHASE
1. ALL BOD PROPOSED EQUIVALENT SUBSTITUTIONS AND THEIR ASSOCIATED IMPACTS ON OTHER SOW ELEMENTS SHALL BE FULLY IDENTIFIED AND COORDINATED WITH THE GENERAL/PRIME CONTRACTOR(S) SUCH THAT THE COST OF ALL ASSOCIATED SCOPE OF WORK IMPACTS DIRECTLY AFFECTING OTHER TRADES SHALL BE INCLUDED IN THE BASE BIDS OF ALL AFFECTED CONTRACTORS. .

STEP 2: CONTRACTORS IDENTIFY PROPOSED EQUIVALENT SUBSTITUTION(S)
1. ALL CONTRACTORS, BEFORE SUBMITTING THEIR REQUEST FOR EQUIVALENT SUBSTITUTION CONSIDERATION SHALL BE RESPONSIBLE TO HAVE FULLY VERIFIED AND CERTIFIED IN WRITING THAT THE DESIGN CHARACTERISTICS OF THE ITEMS THEY WILL BE SUBMITTING FOR BOD COMPLIANCE REVIEW MEETS OR EXCEEDS THE DESIGN INTENT AND PERFORMANCE REQUIREMENTS AS DESIGNED, DETAILED AND SPECIFIED.

STEP 3: CONTRACTORS PREPARE DETAILED COMPARISONS
1. THE REQUESTING CONTRACTOR SHALL PREPARE AND PROVIDE TO THE GENERAL/PRIME CONTRACTOR A FULL LINE ITEM, SIDE-BY-SIDE COMPARISON LISTING SPREAD SHEET OF ALL BOD DESIGN AND MANUFACTURED CHARACTERISTICS VERSUS THE SAME FOR THE EQUIVALENT SUBSTITUTION BEING PROPOSED.

2. ALL EQUIPMENT, MATERIALS OR ASSEMBLY EQUIVALENT SUBSTITUTIONS SHALL BE PROVIDED ON A CONTRACTOR PREPARED ITEMIZED LISTING PER EACH REQUESTED SUBSTITUTION WITH A FULL AND DETAILED COMPARATIVE DESCRIPTION OF ALL SPECIFICATIONS, PERFORMANCE CHARACTERISTICS, CAPACITIES, WEIGHT, DIMENSIONAL LOGISTICS AND KNOWN IMPACTS, DEPARTURES, ALTERATIONS OR ADJUSTMENTS FROM THE ORIGINAL BOD.

3. CONTRACTOR SHALL UTILIZE THE ORIGINAL MANUFACTURER 'S PUBLISHED SPECIFICATIONS AND PRODUCT DATA SHEETS ALONG WITH ANY ADDITIONAL CHARACTERISTICS AND PERFORMANCE CRITERIA REQUIRED AND SPECIFIED IN THE CONSTRUCTION DOCUMENTS AS THE BASIS FOR THE DEVELOPMENT OF THE LINE BY LINE COMPARISON CRITERIA SPREAD SHEET.

STEP 4: CONTRACTORS IDENTIFY RELATED IMPACTS
1. THE REQUESTING CONTRACTOR SHALL BE RESPONSIBLE TO FULLY IDENTIFY AND DOCUMENT ALL PROPOSED EQUIVALENT SUBSTITUTION CAUSED IMPACTS, DEPARTURES, ALTERATIONS OR ADJUSTMENTS REQUIRED FROM THE ORIGINAL BOD REQUIREMENTS WITH THE GENERAL/PRIME CONTRACTOR AS WELL AS ALL AFFECTED CONTRACTORS.

2. SEE THE DETAILED PROTOCOL REQUIREMENTS FOR THE EXTENT OF RESPONSIBILITIES AND DOCUMENTATION REQUIRED FOR THIS CRITICAL ITEM.

STEP 5: CONTRACTOR'S DOCUMENTATION TO GENERAL/PRIME CONTRACTOR
1. CONTRACTORS SHALL COORDINATE WITH THE GENERAL/PRIME CONTRACTOR AS TO THE SPECIFIC DATE THAT EACH IS REQUIRED FOR THE COMPLETION OF THEIR EQUIVALENT SUBSTITUTION SUBMISSION REQUEST DOCUMENTATION AND DELIVERY OF THE COMPLETED PACKAGE(S) TO THEM.

2. CONTRACTORS SHALL FULLY COORDINATE THEIR PREPARATION OF ALL REQUIRED DOCUMENTATION AND EQUIVALENCY SUBSTITUTION REQUIREMENTS WITH THE GENERAL/PRIME CONTRACTOR IN ORDER TO ADDRESS ANY AND ALL IMPACTS ON THE PROJECT SCHEDULE AS WELL AS PERFORMING THEIR REQUIRED FORMALIZED REQUEST FOR EQUIVALENCY SUBSTITUTION SUBMISSION.

3. ALL EQUIVALENT SUBSTITUTION REQUESTS ALONG WITH THEIR REQUIRED SUBMISSION REQUEST DOCUMENTATION SHALL BE DELIVERED TO THE GENERAL/PRIME CONTRACTOR AS REQUIRED BY SAME IN TIME FOR THE GC 'S FIRST SUBMISSION OF THE PROPOSED PROJECT CONSTRUCTION SCHEDULE BEING SUBMITTED TO THE GOVERNMENT FOR REVIEW.

STEP 6: GENERAL/PRIME CONTRACTOR RESPONSIBLE FOR COORDINATION
1. THE GENERAL/PRIME CONTRACTOR SHALL BE RESPONSIBLE TO FULLY IDENTIFY, DOCUMENT, MAKE SUBMISSIONS, TRACK, COORDINATE, OBTAIN CONTRACTING OFFICER (CO) APPROVALS AND INCLUDE THE COST OF ALL SUCH EQUIVALENT SUBSTITUTION, WORK IN THEIR COST OF CONSTRUCTION AS WELL AS ALLOWED FOR WITHIN THEIR PROJECT SCHEDULE.

2. THE GENERAL/PRIME CONTRACTOR HAVING BEEN MADE FULLY AWARE OF POTENTIAL EQUIVALENCY SUBSTITUTIONS AND IMPACTS DURING THE BIDDING PROCESS SHALL INCLUDE AND DOCUMENT THIS BOD PROCESS IN THEIR DETAILED PROJECT SCHEDULE ALLOWING A SEPARATE TASK ITEM TIMELINE FOR EACH WITH CRITICAL DATES AND PERF

GENERAL NOTES - WALL AND CEILING PAINTING

WHEREVER THE WORK BEING PERFORMED BY THIS PROJECT REQUIRES THE REMOVAL/DEMOLITION FROM, OR THE INSTALLATION OF NEW CONDUIT, JUNCTION BOXES, CABINETS, PANELS, DEVICES, EQUIPMENT, ETC., TO FINISH PAINTED SURFACES, THE CONTRACTOR SHALL PROVIDE ALL PAINTING TO THE EXISTING WALL/CEILING SURFACES AND NEW MATERIALS BEING INSTALLED TO MATCH ALL OF THE EXISTING FINISHED CONDITIONS SO THAT WHEN THE WORK PERFORMED IS COMPLETED IT BLENDS WITH THE EXISTING FINISHING DÉCOR AND DOESN'T STAND OUT AS BEING A REPAIR, UNFINISHED OR NEW WORK THAT DOESN'T BLEND WITH THE EXISTING CONDITIONS. PAINTING/REPAINTING SHALL OCCUR IN ALL INSTANCES FROM FLOOR TO CEILING AND FROM A WALL CORNER TO A WALL CORNER CHANGE IN PLANE WITH ALL EXISTING PAINTED SURFACES RECEIVING A NEW FINISH COAT AS A MINIMUM, SEE BELOW:

1. PROVIDE ALL PAINTING AND RELATED WORK AS SHOWN ON THE DRAWING AND/OR AS REASONABLY IMPLIED BY THE SPECIFICATIONS AND THE PROJECT REQUIREMENTS TO PROVIDE A COMPLETELY FINISHED PROJECT.
2. ALL SCRATCHES, DENTS, CRACKS AND/OR OPENINGS ON EXISTING AND NEW WALL SURFACES ARE TO BE FILLED WITH PLASTER PATCH, SPAKLING COMPOUND OR OTHER PRESCRIBED MATERIAL IN AN INDUSTRY APPROVED MANNER AND SANDED SMOOTH TO PROVIDE A "LIKE NEW" SURFACE CONDITION BEFORE PAINTING AND FINISHING.SEE SPECIFICATIONS FOR DETAILS.
3. ALL SURFACES ARE TO BE CLEANED FREE OF LOOSE DIRT, DUST, OIL, GREASE AND ALL FOREIGN MATTER JUST PRIOR TO FINISHING.
4. PROVIDE ALL LABOR, MATERIALS, BRUSHES, TOOLS, LADDERS AND ALL EQUIPMENT OF ANY KIND NECESSARY FOR PROPER EXECUTION OF THE WORK.
5. WORKMANSHIP SHALL BE FIRST CLASS IN EVERY RESPECT WITH ALL MATERIALS EVENLY SPREAD AND SMOOTH WITHOUT RUNS, SAGS, OR DEBRIS IN THE FINISHED SURFACE.

   FIRST CLASS WORKMANSHIP: AN INDUSTRY, DISCIPLINE AND SPECIFIC TRADE RECOGNIZED BEST PRACTICES FOR MATERIALS PROVIDED, INSTALLATION TECHNIQUES UTILIZED AND THE FINAL EXECUTION SUCH THAT ALL MATERIALS AND/OR EQUIPMENT IS PROPERLY INSTALLED, FUNCTIONING CORRECTLY, VISUALLY AS INTENDED AND CLEARLY REPRESENTATIVE OF THE HIGHEST QUALITY OF PROFESSIONAL INSTALLATION THAT IS WITHOUT DEFECT.
6. THE PRIME COAT SHALL BE TINTED TO APPROXIMATE SHADE OF FINAL COAT. ALL SECTIONS, SPOTS OR HOT SPOTS AFTER PRIMARY APPLICATION SHALL BE TOUCHED-UP BEFORE APPLYING THE SECOND COAT TO PRODUCE A SMOOTH AND LEVEL SURFACE. THE FINAL COAT SHALL NOT BE APPLIED UNTIL AFTER ALL OTHER TRADES, WHOSE OPERATIONS WOULD BE DETRIMENTAL TO FINISH PAINTING, HAVE FINISHED THEIR WORK IN THE AREAS TO BE PAINTED.
7. WORK NOT INCLUDED: UNLESS OTHERWISE INDICATED, SHOP PRIMING OF FERROUS METAL ITEMS AND FABRICATED COMPONENTS ARE INCLUDED UNDER THEIR RESPECTIVE TRADES. PRE-FINISHED ITEMS ARE NOT INCLUDED. FINISHED METALS SUCH AS ANODIZED ALUMINUM, STAINLESS STEEL, BRONZE, AND SIMILAR METALS WILL NOT BE PAINTED, UNLESS OTHERWISE SPECIFIED. DO NOT PAINT ANY MOVING PARTS OF OPERATING UNITS, OR OVER ANY EQUIPMENT IDENTIFICATION, PERFORMANCE RATINGS, NAMES OR NOMENCLATURE PLATES OR CODE-REQUIRED LABELS.
8. PROTECT WORK OF OTHER TRADES. CORRECT ANY PAINTING RELATED DAMAGES BY CLEANING, REPAIRING OR REPLACING, AND REFINISHING, AS DIRECTED BY THE COR.
9. PROPERLY PREPARE ALL SURFACES TO RECEIVE FINISHES AND APPLY PRIME COATS, PAINTING AND FINISHING MATERIALS IN ACCORDANCE WITH EACH MANUFACTURER'S DIRECTIONS FOR A QUALITY APPLICATION. USE APPLICATORS AND TECHNIQUES BEST SUITED FOR MATERIALS AND SURFACES TO WHICH APPLIED.SEE SPECIFICATIONS FOR DETAILS.
10. APPLY ADDITIONAL COATS WHEN UNDERCOATS, STAINS OR OTHER CONDITIONS SHOW THROUGH FINAL PAINT OR FINISHED COAT, UNTIL THE SURFACE FILM IS OF UNIFORM FINISH COLOR AND APPEARANCE.
11. APPLY EACH MATERIAL AT NOT LESS THAN THE MANUFACTURER'S RECOMMENDED SPREADING RATE, TO PROVIDE A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 2.5 MILS FOR ENTIRE COATING SYSTEM OF (1) PRIME AND (2) FINISH COATS FOR 3 COAT WORK ON PAINTED SURFACES. COR SHALL INSPECT BETWEEN EACH PRECEDING COAT.
12. PAINTED SURFACE PREPARATION - COMPLY WITH PAINT MANUFACTURER'S RECOMMENDATIONS FOR EACH MATERIAL TYPE AND SURFACE FINISH AS PER THEIR REFERENCE GUIDE AND SPECIFICATIONS.
13. METAL SURFACE PREPARATION - ALL METAL SURFACES TO BE PAINTED MUST BE CLEAN AND FREE OF RUST, MILL SCALE, GREASE, OIL, DIRT AND OTHER FOREIGN MATTER. ALL ALUMINUM MUST BE CLEANED WELL IN ORDER TO REMOVE ALL SURFACE FILM AND OILS, AND SHALL BE PROPERLY PRIMED IN ACCORDANCE WITH THE PAINT MANUFACTURER'S RECOMMENDATIONS.

MISCELLANEOUS

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DIMENSIONS SHOWN ON THE DRAWINGS. NOTIFY THE VA/COR OF ANY DISCREPANCY BEFORE STARTING WORK.
3. A SUCCESSFUL REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO VA/COR. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO DETAILS AND GIVEN DIMENSIONS IN THE CONTRACT DOCUMENTS.
4. CONTRACTOR SHALL OBTAIN VA/COR WRITTEN APPROVAL PRIOR TO PROCEEDING WITH ANY CHANGES FROM THE INFORMATION PROVIDED HEREIN.

FIRE AND SAFETY NOTES

1. MAINTAINING INTEGRITY OF FIRE AND SAFETY SYSTEMS IN PLACE IN MEDICAL CENTER AND OF ITS OUT BUILDINGS DURING CONSTRUCTION SHALL BE RESPONSIBILITY OF GENERAL CONTRACTOR.PROVIDE FIRESTOPPING AS REQUIRED AT ALL APPLICABLE EXISTING AND NEW LOCATIONS TO MAINTAIN EXISTING AND NEW FIRE-RATED CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING PERTINENT OSHA SAFETY REQUIREMENTS.
3. PROVIDE LOCKOUT-TAGOUT AND CONFINED SPACE ENTRY POLICIES AS APPLICABLE AND AS REQUIRED BY OSHA. THESE POLICIES SHALL BE SUBMITTED FOR PRIOR APPROVAL BY VA SAFETY OFFICER/MANAGER.
4. DAILY ACCUMULATIONS OF TRASH, COMBUSTIBLE MATERIALS, PACKAGING, AND DEBRIS SHALL BE REMOVED FROM CONSTRUCTION AREA ON A DAILY BASIS. FLAMMABLE MATERIALS MAY BE STORED ON SITE IN AN APPROVED AND APPROPRIATELY MARKED FLAMMABLE MATERIALS CABINET.
5. ENTIRE CAMPUS ON THIS MEDICAL CENTER IS A SMOKE FREE ZONE. USE OF SMOKING MATERIALS IS PROHIBITED.

GENERAL SCOPE OF WORK (SOW) DESCRIPTION

GENERAL

1. THE PURPOSE OF THIS PROJECT IS TO REPURPOSE BLDG 1 WARD 2K 2B FOR A COMBINED OPTOMETRY AND OPHTHALMOLOGY CLINIC, CALLED IN SHORT EYE CLINIC.
2. THE SCOPE OF THIS PROJECT WILL INCLUDE ALL NECESSARY WORK FOR A COMPLETE INTERIOR RENOVATION OF ENTIRE 2K 2B WARDS ON THE SECOND FLOOR WITH PARTIAL MAINLY ABOVE CEILING WORK AT FIRST FLOOR 1K 1B AREAS. THE PROJECT IS LOCATED AT THE BIRMINGHAM VAMC MAIN HOSPITAL BUILDING (BUILDING 1).

CONSTRUCTION PERIOD STAGING OF WORK - GENERAL NOTES

NORMAL WORK SHIFT HOURS FOR THE VA MEDICAL CENTER IS 8:00 AM UNTIL 6:00 PM DAILY, MONDAY THROUGH FRIDAY.COORDINATE WITH VA THE POSSIBILITY OF EXTENDED WORK SHIFT HOURS.

1. CERTAIN WORK ITEMS AND CONSTRUCTION ACTIVITIES THAT CREATE NOISE, DUST, VIBRATIONS AND THAT WOULD CREATE DISTURBANCES TO THE MEDICAL CENTER AND/OR ANY OF THE ADJACENT OCCUPIED AREAS WILL NEED TO BE PERFORMED DURING PERIODS OF AFTERHOURS/OFF-HOURS WORK. ITEMS THAT WILL REQUIRE AFTER HOURS ACTIVITIES SHALL BE FULLY COORDINATED WITH VA COR PRIOR TO START OF CONSTRUCTION.
2. AFTERHOURS/OFF-HOURS OF OPERATION SHALL BE SCHEDULED FOR THE FOLLOWING DAYS AND TIMES AS COORDINATED, SCHEDULED AND AUTHORIZED BY THE COR: MONDAY THROUGH FRIDAY - 6:00 PM UNTIL 6:00 AM WEEKENDS (AS ALLOWED) - TIMES TO BE DETERMINED WITH THE COR.
3. THE FOLLOWING CONSTRUCTION ACTIVITIES SHALL BE CONSIDERED AFTERHOURS/OFF-HOURS OPERATIONS
   a. THE MOVING OF CONSTRUCTION MATERIALS, EQUIPMENT, TOOLS AND/OR DEMOLITION MATERIALS TO/FROM THE EXTERIOR TO INTERNAL AREAS OF WORK.
   b. ALL WORK IN THE ADJACENT OCCUPIED SPACES TO THE CURRENT STAGE/AREA OF WORK.
   c. ALL WORK THAT WILL REQUIRE SYSTEM SHUTDOWNS.
   d. ALL CONCRETE OR METAL DECKING CORING, CUTTING OR DRILLING.
   e. THE APPROVED USE OF POWER ACTUATED FASTENERS.
   f. ALL WORK (DEMOLITION OR NEW) THAT WILL CAUSE IMPACT NOISE AND VIBRATIONS THAT CAN BE HEARD OR FELT IN THE SURROUNDING ADJACENT OCCUPIED SPACES/AREAS.
   g. CONTRACTOR MUST PLAN FOR PARKING OFF SITE.
4. WEEKEND AND HOLIDAY HOURS SHALL BE FROM 8:00 A.M. TO 5:00 P.M. COORDINATE WITH VA COR PRIOR TO START OF CONSTRUCTION.

SPECIAL SAFETY NOTES

1. ALL CONTRACTORS, SUBCONTRACTORS AND THEIR REPRESENTATIVES WORKING ON THIS PROJECT SHALL AT ALL TIMES PRIOR TO AND DURING THE COURSE OF THEIR ACTIVITY BE RESPONSIBLE FOR THE SAFETY OF THEIR EMPLOYEES, ALL OTHERS AND ARE TO BE IN CARE OF THE PROPERTY.
2. EACH CONTRACTOR OR SUBCONTRACTOR, AS REPRESENTATIVES OF THEIR EMPLOYEES, SHALL ASCERTAIN THAT THE CONDITIONS UNDER WHICH THEY WILL BE REQUIRED TO ACCOMPLISH THEIR WORK ARE SAFE AND MEET ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HAZARD ACT, ALONG WITH ALL OTHER APPLICABLE GOVERNING REGULATIONS AND VA REQUIREMENTS.
3. THE BEGINNING OF WORK ON SITE BY A CONTRACTOR OR SUBCONTRACTOR SHALL INDICATE HIS/HER SATISFACTION AND FULL ACCEPTANCE OF THE CURRENT SITE CONDITIONS REGARDING SAFETY AND THE NECESSARY COMPLIANCE WITH ALL CONTRACT REQUIREMENTS REGARDING SAME. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY ACCIDENTS, INJURIES, AND/OR DAMAGES INCURRED AS A RESULT OF ANY VISIBLE OR KNOWN UNSAFE CONDITIONS THAT EXIST.
4. IF UNSATISFIED WITH THE CURRENT SITE SAFETY CONDITIONS AND/OR THE NECESSARY COMPLIANCE, THE CONTRACTOR OR SUBCONTRACTOR SHALL INDICATE THE ACTIONS AND/OR DEVICES NECESSARY TO RENDER THE JOB-SITE SAFE. IF THE WORK OF OTHER PARTIES, UPON INSPECTION, IS FOUND AT ANY TIME TO BE UNSAFE THE CONTRACTOR OR SUBCONTRACTOR SHALL IMMEDIATELY STOP ALL WORK AND NOTIFY THE GENERAL/PRIME CONTRACTOR AND THE VA/COR. THE SUBMISSION OF A BID FOR ANY PORTION OF WORK INCLUDED IN THIS CONTRACT SHALL ALSO INDICATE ACKNOWLEDGMENT AND ACCEPTANCE OF THESE REQUIREMENTS.

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A CONSTRUCTION PHASING AND SCHEDULE OF ACTIVITIES. REFER TO SPECIFICATIONS AND DRAWINGS FOR INFORMATION/REQUIREMENTS.
2. THE CONTRACTOR WILL COORDINATE WITH THE VA/COR TO DEVELOP A CRITICAL PATH METHOD (CPM) SCHEDULE, CONSTRUCTION ACTIVITY SEQUENCING AND ASSOCIATED COMPLETION DATES FOR THE COMPLETE PROJECT. REFER TO SPECIFICATIONS AND DRAWINGS FOR INFORMATION/REQUIREMENTS.
3. THE VA MEDICAL CENTER MUST REMAIN IN FULL OPERATION DURING CONSTRUCTION ACTIVITIES WITH MINIMAL INTERRUPTION DUE TO ALL RELATED CONSTRUCTION ACTIVITIES AND RELATED COMPONENTS OF THE PROJECT, INCLUDING MATERIAL DELIVERIES, NOISE, DUST, VIBRATION, ETC., BY CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT.
4. THE CONTRACTORS SCHEDULES SHOULD INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   A. CONTRUCTION ACTIVITIES WHICH MAY AFFECT THE CONTINUAL OPERATIONS OF THE VA MEDICAL CENTER.
   B. SCHEDULES FOR EXISTING SYSTEMS SHUT DOWN.
   C. SCHEDULES FOR CONSTRUCTION ACTIVITIES OCCURING AFTER NORMAL BUSINESS HOURS.
5. PROVIDE TEMPORARY CONSTRUCTION FENCING/BARRIERS WITH DOORS AND FRAMES AS REQUIRED TO SEPARATE CONSTRUCTION ACTIVITIES FROM PUBLIC AREAS AND AREAS REQUIRING ACCESS DURING CONSTRUCTION.
6. IF THE VAMC ACCESS/EGRESS ROUTES IDENTIFIED ON THE PHASING PLANS ARE REQUIRED TO BE BLOCKED TEMPORARILY TO ACCOMMODATE CONSTRUCTION, COORDINATE ALTERNATE ACCESS/EGRESS ROUTES WITH THE VA/COR AND PROVIDE TEMPORARY SIGNAGE AND TEMPORARY PROTECTIVE BARRIERS TO CREATE ALTERNATIVE ACCESS/EGRESS ROUTES AS REQUIRED. COORDINATE AND SCHEDULE ANY DOWNTIME FOR THESE ROUTES WITH THE VA/COR.
7. THE CONTRACTOR SHALL REVIEW LOCATIONS OF TEMPORARY CONSTRUCTION BARRIERS AND INFECTION CONTROL BARRIERS, CONTRACTOR SITE ACCESS AND DEBRIS AND MATERIAL DELIVERY AND DELIVERY ROUTES WITH THE VA/COR.
8. MAINTAIN ACCESS TO EXISTING BUILDINGS WITHIN THE LIMITS OF CONSTRUCTION.
9. COORDINATE SHUT DOWNS OF UTILITIES OR ANY CONSTRUCTION ACTIVITIES WHICH MAY POTENTIALLY AFFECT THE EXISTING OPERATIONS OF THE VAMC WITH THE VA/COR. MAINTAIN UNINTERRUPTED OPERATION OF THE EXISTING FACILITIES FOR ALL EXISITNG UTILITIES TIE-INS. SCHEDULE THESE EVENTS AFTER-NORMAL BUSINESS HOURS OR AS REVIEWED AND APPROVED BY THE VA/COR. REFER TO SPECIFICATIONS AND DRAWINGS FOR INFORMATION/REQUIREMENTS.
10. THE CONTRACTOR WILL REVIEW WITH THE VA/COR FOR THE LOCATION OF THE SAFETY SIGN AND CONSTRUCTION SIGN.
11. ALL PERSONNEL ENTERING RENOVATION AREAS WITHIN OCCUPIED FLOORS OF THE VA MEDICAL CENTER SHALL WEAR SHOE COVERS, AND THESE MUST BE CHANGED EACH TIME THE WORKER EXITS THE RESPECTIVE WORK AREA. PROVIDE ADHESIVE WALK-OFF MATS AT ENTRY POINTS AT ALL WORK AREAS. REPLACE WALK-OFF MATS DAILY OR WHEN THEY NO LONGER ARE ABLE TO CONTAIN DUST AND DIRT. WET MOP AND/OR VACUUM WORK AREA WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREAS. CONTAIN CONSTRUCTION WASTE IN TIGHTLY COVERED CONTAINERS PRIOR TO TRANSPORTING. REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE THE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS THOROUGHLY CLEANED AND INSPECTED BY VA/COR.

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
35% SCHEMATIC DESIGN	05/29/2024
Revisions:	Date:

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LICENSED ARCHITECT — DENNIS J NIKU — 001-011859 — 05/15/26 — REGISTERED ILLINOIS
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERAL - PROTECTION PROTOCOL, SCOPE OF WORK AND MISC. NOTES

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: GI002

VA FORM 08-6231

GENERAL DEMOLITION NOTES FOR CONTRACTORS

GENERAL NOTES FOR CONTRACTORS: SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL WORK LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED HEREIN.

PROTECTION PROTOCOLS: VERIFY AND COORDINATE ALL PROTECTION REQUIREMENTS TO BE PROVIDED FOR EACH SPECIFIC AREA OR LOCATION OF SCHEDULED WORK WITH THE VA/COR, BEFORE BEGINNING ANY WORK. WHEN PERFORMING DEMOLITION WORK IN ANY OCCUPIED SPACES FOLLOW THE "OCCUPIED AREAS PROTECTION PROTOCOLS " UNLESS MODIFIED IN WRITING BY THE VA/COR ON A CASE BY CASE BASIS.

1.BEFORE BEGINNING ANY DEMOLITION WORK EACH CONTRACTOR AND DISCIPLINE SHALL PERFORM A FULL EXAMINATION OF ALL AREAS OF WORK AND FULLY VERIFY ALL EXISTING CONDITIONS ALONG WITH ALL OF THE AREAS OF WORK FOR ANY UNFORESEEN CONDITIONS OR DISCREPANCIES FROM THE DOCUMENTATION THAT WOULD AFFECT THEIR WORK AND/OR THE WORK OF OTHERS. ANY UNFORESEEN CONDITIONS OR DISCREPANCIES DISCOVERED ARE TO BE IMMEDIATELY IDENTIFIED AND COORDINATED WITH THE GENERAL/PRIME CONTRACTOR WHO SHALL IN TURN DOCUMENT AND PROMPTLY REPORT ANY SUCH CONDITIONS DIRECTLY TO THE VA/COR FOR DIRECTION ON HOW TO PROCEED BEFORE ALLOWING ANY WORK TO BEGIN.

2.ALL REQUIRED DEMOLITION WORK IS NOT NECESSARY LIMITED TO WHAT IS ONLY SPECIFICALLY SHOWN OR DIRECTLY CALLED OUT ON THE DEMOLITION PLANS OR THAT IS ONLY SPECIFICALLY IDENTIFIED WITHIN THE DEMOLITION NOTES DESCRIPTIONS. THE INTENT OF THE DOCUMENTATION IS TO GENERALLY IDENTIFY THE MORE SPECIFIC MAJOR ELEMENTS OF WORK IN PLACE THAT SHALL REQUIRE REMOVAL AND/OR REWORK IN ORDER TO ACCOMPLISH THE DESIGN INTENT OF THE DOCUMENTS. THE FULL EXTENT OF DEMOLITION WORK COULD INCLUDE BUT NOT NECESSARILY BE LIMITED TO ALL AFFECTED LESSER ELEMENTS OF ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, MEDICAL GASES, FIRE PROTECTION SPRINKLER SYSTEMS AND ALL ELECTRICAL SYSTEMS WORK INCLUDING HIGH AND LOW VOLTAGE POWER, COMMUNICATION SYSTEMS SUCH AS CCTV, SECURITY, IT DATA, LIFE SAFETY, FIRE PROTECTION, NURSE CALL, PA, BAS CONTROLS SYSTEMS, TEMPERATURE AND OTHERWISE, ETC.

3.ALL REQUIRED DEMOLITION WORK IS NECESSARY TO FACILITATE THE EXTENT OF BOTH THE NEW CONSTRUCTION WORK AS WELL AS TO FACILITATE THE REPLACEMENT, RELOCATION AND/OR THE REWORKING OF THE EXISTING SYSTEMS. ANY REWORKING OF THE CURRENT ELEMENTS AND COMPONENTS CURRENTLY NEEDING TO BE MODIFIED IN ORDER TO PROPERLY SUPPORT THE COMPLETED PROJECT SHALL BE PROVIDED AS INTENDED TO CONFORM WITH THE ORIGINAL DESIGN INTENT WHETHER SPECIFICALLY CALLED FOR IN GREAT DETAIL WITH EVERY ANCILLARY ELEMENT FULLY NAMED AND IDENTIFIED OR AS CALLED OUT AS A GENERAL COMPONENT PORTION OF WORK THAT NEEDS TO BE PROPERLY REMOVED IN ORDER TO COMPLETE THE SCOPE OF WORK AS INTENDED TO COMPLY WITH ALL BASES OF DESIGN REQUIREMENTS.

4.THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE DEMOLITION AND REMOVAL OF ALL EXISTING WALLS, CEILINGS, SUSPENSION SYSTEMS, FLOORING, ELECTRICAL, TELEPHONE AND PLUMBING CONSTRUCTION AS WELL AS ALL MATERIALS, FINISHES AND EQUIPMENT THAT IS NOT SPECIFICALLY SHOWN OR CALLED FOR AS REQUIRED TO FACILITATE THE NEW CONSTRUCTION WORK INSIDE THE CONTRACT AREA, THE ADJACENT SPACES AND THE SPACES ABOVE AND BELOW. SOME ADDITIONAL ITEMS THAT MAY NOT BE SPECIFICALLY SHOWN IN GREAT DETAIL ON THE DEMOLITION PLAN THAT ARE A PART OF THE DEMOLITION WORK, BUT NOT LIMITED TO, ARE CASEWORK, SHELVING, BRACKETS, STANDARDS, DOOR HARDWARE, MISCELLANEOUS OTHER HARDWARE, SIGNAGE, FLOORING MATERIALS, WALL BASE, WOOD GROUNDS, WALL COVERING MATERIALS, BACKING LINERS OR BOARDS, ANY REMAINING MASTIC, GROUT, CAULKING AND SEALANTS, EXPOSED ANCHORS AND FASTENERS, FRAMING MATERIALS, BACKER BOARDS OR METAL PLATES, CHAIR RAILS, BRACKETS, HOOKS, SURFACE MOUNTED OR RECESSED ACCESSORIES, PRIVACY CURTAINS AND TRACKS, ETC.

5.ALL DEMOLITION WORK SHALL BE PERFORMED IN A SYSTEMATICALLY SAFE FULLY SUPERVISED COORDINATED AND PROPERLY MANAGED SEQUENCE OF WORK UNDER THE DIRECT SUPERVISION OF THE GENERAL/PRIME CONTRACTOR'S SUPERINTENDENT AND/OR THEIR MANAGEMENT PERSONNEL INCLUDING THE PERFORMANCE OF ANY ANCILLARY ELEMENTS OF SELECTIVE DEMOLITION.

6.ALL DEMOLITION, THE HANDLING OF MATERIALS AND EQUIPMENT ALONG WITH THE MOVEMENT OF THESE ELEMENTS THROUGHOUT THE FACILITY SHALL BE PERFORMED SO AS TO PREVENT DAMAGE TO ADJACENT IMPROVEMENTS AND FACILITIES TO REMAIN AS WELL AS TO PROVIDE SAFETY FOR ALL TRADESPEOPLE, STAFF, RESIDENTS/PATIENTS, VISITORS AND SERVICE PROVIDERS.

7.PROVIDE ALL PHYSICAL AND ENVIRONMENTAL PROTECTIVE MEASURES AS REQUIRED BY THE PROJECT DOCUMENTS, VA FEDERAL AND LOCAL REQUIREMENTS, APPLICABLE OSHA REGULATIONS, THE STATION AND ALL LOCAL INFECTION CONTROL AUTHORITIES, NFPA REQUIREMENTS, THE VA/COR AND ALL OTHER REGULATORY AGENCIES AND VA AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

8.PROVIDE ALL TEMPORARY PARTITIONS, PROTECTION, DOOR ACCESS UNITS, ENCLOSURES, WALKWAYS, FENCING, RAILINGS, CANOPIES, AIR FILTRATION DEVICES, VESTIBULES, AIRLOCKS, ETC., WHERE REQUIRED BY THE CONTRACT DOCUMENTS, THE VA/COR AND ALL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT AND SHALL BE SURE TO MAINTAIN ADEQUATE AND SAFE EMERGENCY MEANS OF EGRESS FROM ALL AREAS. ALL SUCH WORK NEEDING TO BE PROVIDED WILL REQUIRE VA/COR REVIEW AND APPROVAL BEFORE BEGINNING ANY OF SUCH WORK.

9.GREAT CARE SHALL BE TAKEN WHEN PERFORMING SELECTIVE DEMOLITION IN THE UTILIZATION OF MORE SENSITIVE AND LESS EVASIVE METHODS OF DEMOLITION/REMOVAL, AS WELL AS PROVIDING THE APPROPRIATE ENHANCED PROTECTIVE BARRIERS IN ORDER TO PROVIDE FOR THE LEAST AMOUNT OF DAMAGE TO THE WORK THAT IS TO REMAIN IN PLACE. EXISTING FINISHED SURFACES, MATERIALS AND EXPOSED EQUIPMENT THAT WOULD RECEIVE SIGNIFICANT AMOUNTS OF SURFACE DAMAGE AND WOULD REQUIRE SIGNIFICANT AMOUNTS OF PATCHING, REPAIRS AND REFINISHING WORK SHALL BE DEEMED AS DAMAGED AND UNUSABLE AND WILL NEED TO BE REPLACED IN WHOLE BY THE RESPONSIBLE CONTRACTOR AND ITS REPLACEMENT ONCE COMPLETED WILL NEED TO RECEIVE VA/COR APPROVAL.

10. WHERE EXISTING FLOOR FINISHES ARE TO BE FULLY REMOVED TO ALLOW FOR THE INSTALLATION OF NEW, PROVIDE FOR THE COMPLETE REMOVAL OF THE EXISTING FLOOR FINISHES ALONG WITH ALL ASSOCIATED ATTACHMENT SYSTEMS SUCH AS MASTICS, ADHESIVES, TACKLES STRIPS, STAPLES, SETTING BEDS OF GROUT, MORTAR OR CONCRETE, CARPET PADDING, ATTACHED SUBFLOORING MATERIALS, ETC. AS REQUIRED TO GET DOWN TO THE EXISTING STRUCTURAL FLOOR SUBSTRATE THAT CAN BE PROPERLY PATCHED, REPAIRED, LEVELED AND MADE READY TO RECEIVE THE NEW FLOOR FINISHES.

11. ITEMS INDICATED TO BE REMOVED AND SALVAGED FOR THE VA SHALL REMAIN THE VA'S PROPERTY AND SHALL BE CAREFULLY REMOVED, CLEANED AND PROTECTED FROM DAMAGE BY THE CONTRACTOR RESPONSIBLE AT ALL TIMES. ALL SUCH ITEMS INDICATED TO BE SALVAGED WILL BE PACKAGED AND/OR CRATED AS REQUIRED BY THE VA/COR TO PROPERLY PROTECT THEM FROM DAMAGE CAUSED BY THE HANDLING, MOVING AND/OR THE STORAGE OF THESE ITEMS. ALL PACKAGES AND/OR CRATES OF ITEMS SHALL HAVE THEIR CONTENTS CLEARLY MARKED AND FULLY IDENTIFIED ON BOTH THE TOP AND ONE SIDE OF EACH CONTAINER TO BE COORDINATED WITH AND APPROVED BY THE VA/COR. DELIVER ALL SALVAGED MATERIALS TO THE LOCATIONS INDICATED IN THE PROJECT DOCUMENTATION OR TO THE GOVERNMENTS DESIGNATED STORAGE FACILITY ON THE STATIONS CAMPUS AS DIRECTED BY THE VA/COR.

12. UNLESS OTHERWISE INDICATED OR STATED TO BE SAVED, SALVAGED OR IDENTIFIED AS NEEDING TO REMAIN OR BE RELOCATED AND/OR REUSED, ALL ITEMS IDENTIFIED TO BE REMOVED, DEMOLISHED, SCRAPED, ETC. BECOMES THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR AND AS SUCH IT IS THEIR RESPONSIBILITY TO REMOVE ALL SUCH ITEMS FROM THE SITE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE VA/COR.

13. DEMOLITION ITEMS OF VALUE TO THE CONTRACTOR(S) ARE NOT TO BE STORED ON SITE AND NEED TO BE REMOVED ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE VA/COR.

14. ALL ITEMS OF WORK THAT ARE IDENTIFIED AS EXISTING TO BE REMOVED AND REUSED/REINSTALLED SHALL BE CAREFULLY DISCONNECTED, DETACHED, REMOVED AND DISASSEMBLED AS REQUIRED FOR CONVENIENCE AND EASE OF HANDLING, MOVING, STORAGE AND FOR THEIR PROTECTION FROM DAMAGE. ALL SUCH ITEMS ARE TO BE INDIVIDUALLY WRAPPED, BOXED OR PLACED IN CARTONS FOR THE EASE OF HANDLING THE MATERIALS AND THEIR PLACEMENT IN A VA/COR IDENTIFIED PROTECTED STORAGE AREA (TBD) LOCATED ON THE STATION BUT NOT NECESSARILY CONVENIENT TO THE SITE OF THE WORK. EACH ITEM SHALL BE FULLY CLEANED, FREE FROM DAMAGE, PREPARED FOR SERVICE AND FULLY TESTED TO VERIFY ITS ABILITY FOR PROPER FUNCTIONAL REUSE PRIOR TO BEING PLACED IN STORAGE. THE CONTRACTOR TAKES RESPONSIBILITY FOR AND CERTIFIES ITS PERFORMANCE CAPABILITIES AND THE FACT THAT IT IS NOT DAMAGED AND FULLY CAPABLE FOR REUSE WHEN READY FOR ITS REINSTALLATION. IN THE EVENTUALITY THAT AN ITEM IS ULTIMATELY FOUND TO BE DAMAGED OR INOPERABLE AT THE POINT OF REINSTALLATION THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A NEW ITEM/DEVICE ALONG WITH ALL ANCILLARY SUPPORT WORK AND EQUIPMENT NECESSARY TO FULLY REPLACE THE EXISTING.

15. WHERE EXISTING MATERIALS, ITEMS OR EQUIPMENT ARE TO BE REMOVED FOR THEIR REPLACEMENT IN THE SAME LOCATION BY THE SAME OR SIMILAR NEW MATERIALS, ITEMS OR EQUIPMENT, CAREFULLY DISCONNECT, DETACH, DISASSEMBLE IF REQUIRED, REMOVE AND DISPOSE OF THE ITEMS INDICATED ALONG WITH ANY AND ALL ANCILLARY SYSTEM COMPONENTRY OR SUPPORT ITEMS ADDITIONALLY IDENTIFIED OR REQUIRED TO BE REPLACED.

16. WHERE STRUCTURAL SUPPORT OF EXISTING CONSTRUCTION ELEMENTS OR PORTIONS OF STRUCTURAL ELEMENTS TO REMAIN IS REQUIRED THE RESPONSIBLE CONTRACTOR PERFORMING THE WORK SHALL PROVIDE AND MAINTAINING ALL NECESSARY STRUCTURAL SUPPORTS, SHORING, STIFFENERS, BRACING, BEAMS, COLUMNS, FOOTINGS AND SUPPORTS AS NECESSARY TO ENSURE THE STABILITY OF THE ELEMENTS BEING SUPPORTED AND TO ADEQUATELY DISTRIBUTE ANY TEMPORARY LOADING SO AS NOT TO OVER LOAD ANY OF THE EXISTING STRUCTURE AND THE CONSTRUCTION BELOW. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STRUCTURAL ENGINEERING ANALYSIS, CALCULATIONS AND SOLUTIONS FOR PROVIDING ANY SUCH WORK AND WILL NEED TO PROVIDE ALL SUCH PROPER DOCUMENTATION PREPARED BY A LICENSED STRUCTURAL ENGINEER TO THE VA/COR AS A SHOP DRAWING SUBMITTAL FOR PROPER REVIEW AND APPROVAL BEFORE BEING ALLOWED TO BEGIN ANY SUCH WORK.

17. ALL EXISTING CONSTRUCTION OR ITEMS INDICATED TO REMAIN IN PLACE AND OPERATION SHALL BE PROTECTED FROM DAMAGE BOTH DURING THE DEMOLITION OPERATIONS AS WELL AS THE NEW CONSTRUCTION EFFORTS. WHERE PRACTICABLE, AND WITH THE VA/COR'S APPROVAL, THE CONTRACTOR MAY ELECT TO REMOVE SUCH ITEMS TO A SUITABLE STORAGE LOCATION DURING THE DEMOLITION PHASE AND THEN PROPERLY CLEAN AND REINSTALL THE ITEMS WHEN APPLICABLE. IN NO CASE SHALL ANY LIFE SAFETY DEVICES, SYSTEMS OR MEASURES BE COMPROMISED BY THE TEMPORARY REMOVAL OF ANY NECESSARY ELEMENTS OF WORK, FOR THE CONVENIENCE OF THE CONTRACTOR, THAT WERE NOT PROPERLY REPLACED IN KIND WITH A SIMILAR PROPERLY OPERATING TEMPORARY DEVICE.

18. DURING THE COURSE OF SELECTIVE DEMOLITION OR REMOVAL OPERATIONS AND THE EXISTING SUBSTRATE MATERIALS/CONSTRUCTION IS DAMAGED BEYOND REASONABLE REPAIR, THE CONTRACTOR SHALL BE RESPONSIBLE TO FULLY REPLACE THE ENTIRE DAMAGED SECTION AND/OR SECTIONS. THIS DAMAGED AREA SHALL BE REMOVED AND REPLACED AS REQUIRED TO REPAIR THE SUBSTRATE TO A LIKE NEW CONDITION THAT CONTAINS NO IRREGULAR JOINT CONNECTIONS, CONDITIONS, DEFECTS, WEAKNESS OR WILL CAUSE ADVERSE EFFECTS THAT WILL RESULT IN ANY DIFFERENTIAL FINISHED SURFACE CONDITIONS OR AREAS OF JOINT WEAKNESS THAT WILL RESULT IN SURFACE CRACKING AND BE APPARENT THAT THE CONDITION IS IN FACT A PATCH/REPAIR.

19. REFER TO ALL ENGINEERING DISCIPLINE DRAWINGS AND DOCUMENTATION FOR THE BASIC EXTENT BEING REQUIRED FOR ALL INFRASTRUCTURE AND SYSTEMS DEMOLITION AS WELL AS FOR IDENTIFYING ALL EXISTING EQUIPMENT, PIPING, CONDUITS, DUCTWORK, WIRING, CONTROLS, ETC. THAT ARE INTENDED TO REMAIN WITHIN ANY OF THE AREAS OF DEMOLITION, THE AREAS OF REWORKING OF EXISTING SYSTEMS AND THE AREAS OF NEW WORK.

20. UNLESS OTHERWISE NOTED ALL EXISTING PARTITION CONSTRUCTION WITHIN THE PROJECT AREA OF WORK SCHEDULED TO RECEIVE NEW FINISHES SHALL HAVE ALL EXISTING FINISHES REMOVED INCLUDING BUT NOT LIMITED TO ALL CERAMIC TILE, VINYL WALL COVERING, WOOD PANELING, WAINSCOT MATERIALS, GROUT, MASTIC, WALL COVERING BACKING, WALL BASE, ADHESIVE, STAPLES, EXPOSED FASTENERS, ETC. SUCH THAT THE SUB-STRAIGHT WALL/PARTITION SURFACES REQUIRE NO FURTHER DEMOLITION AND ARE PREPARED TO RECEIVE ALL REQUIRED PATCHING, REPAIRS, RESURFACING AND REFINISHING AS REQUIRED TO RECEIVE THE NEW FINISHES.

21. ALL FINISHED AREAS ADJACENT TO OR INCLUDED WITHIN THE AREA(S) OF CONSTRUCTION ALONG WITH ALL PUBLIC PROJECT ACCESS ROUTES SHALL BE PROTECTED FROM DUST AND DIRT THROUGH THE USE OF VA/COR APPROVED DUSTPROOF PROTECTION. SEE THE OCCUPIED AREA PROTECTION PROTOCOLS PROVIDED IN THE "GENERAL" DRAWINGS SECTION AND COORDINATE ALL SITE SPECIFIC CONDITIONS IMPACTS ENCOUNTERED WITH THE VA/COR.

22. ALL NEW WORK ALONG WITH ANY PORTIONS OF EXISTING EQUIPMENT, MATERIALS OR REWORKED ELEMENTS WHEN COMPLETED SHALL FULLY COMPLY WITH ALL BASES OF DESIGN REQUIREMENTS.

23. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO ADEQUATELY PROTECT EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE DURING BOTH THE DEMOLITION AND CONSTRUCTION SEQUENCES OF WORK. ANY DAMAGE TO SUCH AREAS SHALL BE RESTORED AND REFINISHED TO A "LIKE-NEW" CONDITION PRIOR TO THE VA/COR'S ACCEPTANCE OF THAT WORK.

24. THE GENERAL/PRIME CONTRACTOR IS RESPONSIBLE FOR THE PATCH, REPAIR, REFINISHING AND/OR REPLACEMENT OF ALL CONSTRUCTION, MATERIALS, ASSEMBLIES, EQUIPMENT, SIGNAGE AND FINISHES DAMAGED BY THE PROJECT DEMOLITION, TEMPORARY CONSTRUCTION, NEW CONSTRUCTION OR THE MOVEMENT OF PERSONNEL, TOOLS, EQUIPMENT, MATERIALS, ETC. BOTH INSIDE AND OUTSIDE OF THE DESIGNATED AREAS OF WORK.

25. PROVIDE THE CUTTING AND PATCHING FOR ALL DEMOLITION WORK AND ALL NEW CONSTRUCTION WORK BEING PERFORMED OUTSIDE OF THE PROJECT LIMIT LINES AS REQUIRED TO PROPERLY COMPLETE THE PROJECT SCOPE OF WORK.

26. ALL CUTTING, CORING AND DRILLING OF EXISTING CONCRETE AND MASONRY CONSTRUCTION SHALL NOT DAMAGE EXISTING REINFORCING STEEL, PIPING, CONDUITS OR OTHER CONCEALED CONSTRUCTION WITHIN. PRIOR TO CORING, DRILLING, CUTTING OR PERFORMING ANY BREAKING EFFORTS, PROVIDE PENETRATING FIELD X-RAYING OF THE INTENDED AREAS AND DOCUMENT THE EXACT SIZE AND LOCATIONS OF ALL SUCH INTERFERENCES. COORDINATE WITH AND OBTAIN VA/COR APPROVAL BEFORE PROCEEDING WITH ANY SUCH REQUIRED PENETRATIONS WORK.

27. THE GENERAL/PRIME CONTRACTOR IS RESPONSIBLE TO PROVIDE THE REMOVAL OF ALL CONSTRUCTION DEMOLITION DEBRIS, SPOIL AND MATERIALS FROM THE PROJECT SITE ON A DAILY BASIS UNLESS SPECIFICALLY REFERENCED OTHERWISE IN THE PROJECT SPECIFIC LOGISTICAL SEQUENCING REQUIREMENTS OR AS APPROVED BY THE VA/COR.

CONSTRUCTION PROJECT ACTIVITY TYPE

INFECTION CONTROL RISK ASSESSMENT

Matrix of Precautions for Construction and Renovation

STEP ONE: Indentify the Type of construction Project Activity

TYPE A	**Inspection and Non-Invasive Activities** . Includes, but is not limited to: • removal of ceiling tiles for visual inspection only, e.g., limited to 1 tile per 50 square feet • painting (but not sanding) • wallcovering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.
TYPE B	**Small scale, short duration activities which create minimal dust** Includes, but is not limited to: • installation of telephone and computer cabling • access to chase spaces • cutting of walls or ceiling where dust migration can be controlled.
TYPE C	**Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies** Includes, but is not limited to: • sanding of walls for painting or wall covering • removal of floorcoverings, ceiling tiles and casework • new wall construction • minor duct work or electrical work above ceilings • major cabling activities • any activity which cannot be completed within a single workshift.
TYPE D	**Major demolition and construction projects** Includes, but is not limited to: • activities which require consecutive work shifts • requires heavy demolition or removal of a complete cabling system • new construction.

STEP TWO: Identify the Patient Risk Groups

Low Risk	Medium Risk	High Risk	Highest Risk
• Office areas	• Cardiology • Echocardiography • Endoscopy • Nuclear Medicine • Physical Therapy • Radiology/MRI • Respiratory Therapy	• CCU • Emergency Room • Labor & Delivery • Laboratories (specimen) • Medical Units • Newborn Nursery • Outpatient Surgery • Pediatrics • Pharmacy • Post Anesthesia Care Unit • Surgical Units	• Any area caring for immuno-compromised patients • Burn Unit • Cardiac Cath Lab • Central Sterile Supply • Intensive Care Units • Negative pressure isolation rooms • Oncology • Operating rooms including C-section rooms

STEP THREE: Match the Patient Risk Group with the Construction Project Type to find the Class of Precautions

IC Matrix - Class of Precautions: Construction Project by Patient Risk

	Construction Project Type			
Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	I	II	II	III/IV
MEDIUM Risk Group	I	II	III	IV
HIGH Risk Group	I	II	III/IV	IV
HIGHEST Risk Group	II	III/IV	III/IV	IV

Note: Infection Control approval will be required when the Construction Activity and Risk Level indicate that Class III or Class IV control procedures are necessary.

INFECTION CONTROL NOTES

A. PROJECT IS IDENTIFIED AS HIGHEST PATIENT RISK GROUP, WITH A CLASS IV LEVEL OF IC PRECAUTIONS - REFER TO SPECIFICATIONS.
B. HVAC CONNECTIONS TO EXISTING SYSTEM TO BE DISCONECTED DURING CONSTRUCTION.
C. G.C. TO SUPPLY A NEGATIVE PRESSURE MACHINE OF SUFFICIENT SIZE & QUANTITY TO ADEQUATELY HANDLE CONSTRUCTION AREAS.
D. ALL AREAS OF NEGATIVE AIR WILL BE MONITORED BY A TRIATEK MONITOR PER VA GUIDELINES.
E. CONTRACTOR WILL VERIFY AND TEST NEGATIVE AIR FLOW.
F. CONTRACTOR TO MAINTAIN A NEGATIVE AIR PRESSURE LOG.
G. ALL TEMPORARY CONSTRUCTION DOORS IN 1 HR FIRE-RATED BARRIERS, TO BE METAL, 45 MIN. HR. FIRE - RATED, W/METAL FRAMES, CLOSERS AND SEALS.
H. ALL TEMPORARY CONSTRUCTION DOORS ACCESSING CONSTRUCTION WORK ZONE FROM EXISTING HOSPITAL TO BE EQUIPPED WITH DOOR LOCKS UTILIZING THE VA CONSTRUCTION KEY.
I. ALL CONSTRUCTION ENTRANCES TO BE PROPERLY LABELED TO COMPLY WITH VA AND OSHA REQUIREMENTS.
J. CONTRACTOR TO PROVIDE 24" X 36" WALK OFF MATS AND CHANGE THEM AS NEEDED AT EACH ENTRANCE POINT.
K. CONTRACTOR TO PROVIDE HAND SANITIZERS AT ALL ENTRANCE POINTS.
L. CONTRACTOR TO SUPPLY SPILL KIT, TO INCLUDE SHOP VAC, MULTI PURPOSE SPILL CONTROL SORBENTS TO ABSORB NON AGGRESSIVE LIQUIDS UP TO 30 GALLONS.
M. ALL NEW CONSTRUCTION MATERIALS, TOOLS AND EQUIPMENT PASSING THROUGH HOSPITAL TO BE COVERED WITH 4 MIL. POLY SHEETS.
N. THE CONTRACTOR SHALL NOT BLOCK OR HINDER THE USE OF THE BUILDINGS BY PATIENTS, STAFF & VISITORS.
O. ALL MATERIALS AND EQUIPMENT MUST BE PROPERLY STORED IN DESIGNATED AREAS.
P. ALL DEBRIS AND GARBAGE THAT IS TO BE REMOVED THROUGH THE HOSPITAL MUST BE CONTAINED IN DUMP CARTS DESIGNED FOR THAT PURPOSE AND MUST BE COVERED WITH A FULL COVER OR LID.
Q. FLAMMABLE MATERIALS MAY NOT BE STORED IN BUILDINGS.
R. COORDINATE DEBRIS REMOVAL W/ POSTED TIMES FOR ELEVATOR AVAILABILITY. ALL DEBRIS REMOVAL ON DESIGNATED ELEVATOR ONLY.

ISSUED FOR BID	**05/15/2026**
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35% SCHEMATIC DESIGN RESUBMITTAL	**06/30/2025**
35% SCHEMATIC DESIGN	**05/29/2024**
Revisions:	**Date:**

CONSULTANT

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LICENSED ARCHITECT — DENNIS J NIKOLAI — 021-011889 — 05/15/26 — REGISTERED ILLINOIS
Exp. 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
GENERAL - DEMOLITION AND INFECTION CONTROL NOTES

Phase
ISSUED FOR BID

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number
521-24-102

Building Number
#1

Approved: Project Director

FULLY SPRINKLERED

Location
BIRMINGHAM VAMC

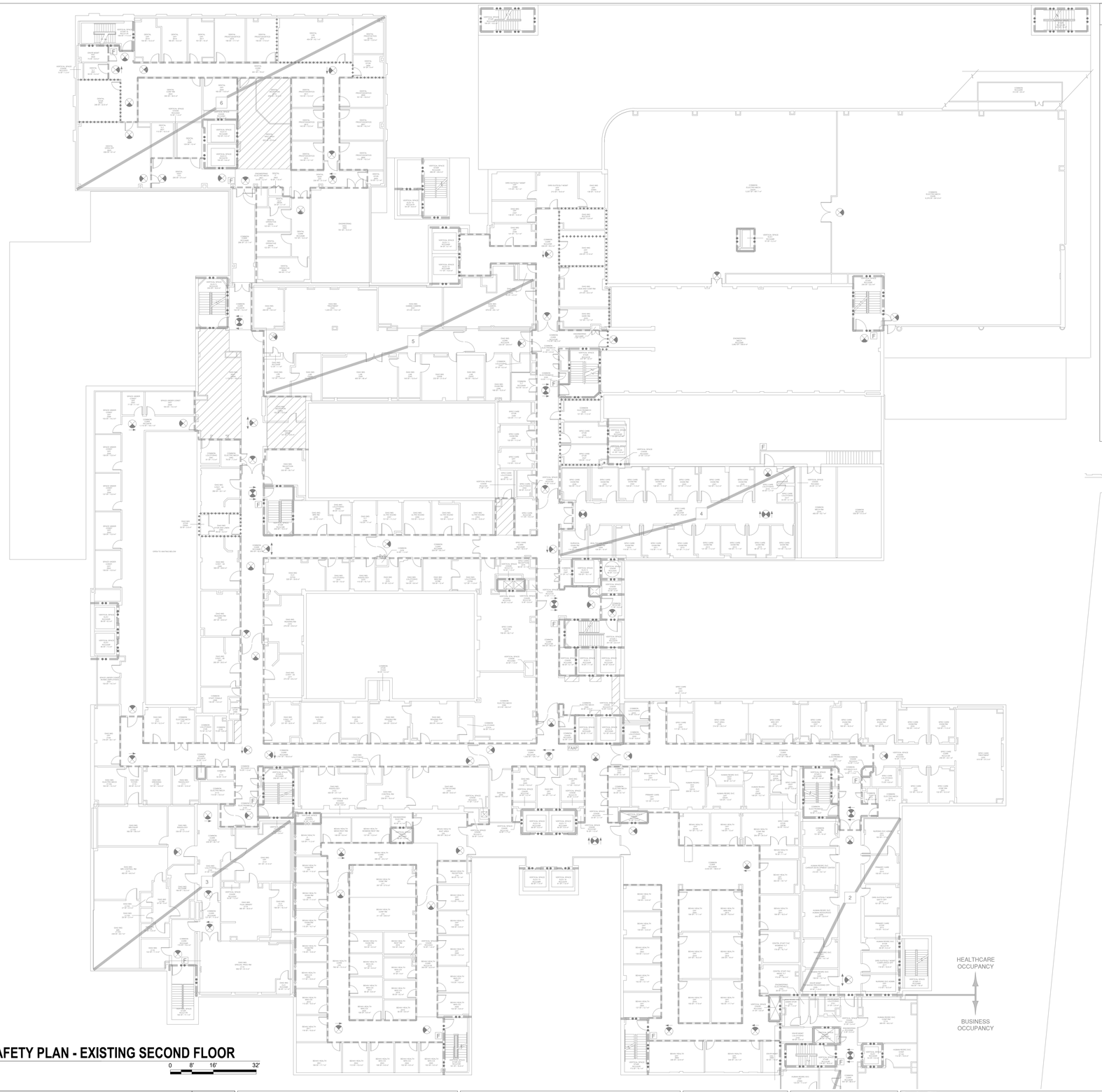
Issue Date
05/15/2026

Checked
CR

Drawn
LD

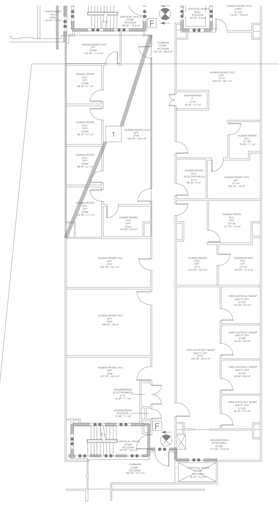
Drawing Number
GI003

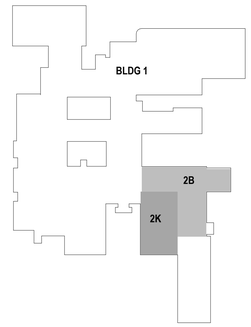
VA FORM 08-6231



LEGEND

- 2 HOUR FIRE/SMOKE BARRIER
- 1 HOUR FIRE/SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 1 HOUR FIRE BARRIER
- SMOKE RESISTIVE HAZARDOUS AREA
- NON RATED SMOKE PARTITION
- NON-FIRE-RATED PARTITION
- HE — HORIZONTAL EXIT PASSAGEWAY
- EX — EXIT
- EP — EXIT PASSAGEWAY
- LC — LINEN CHUTE
- SUITE DESIGNATIONS
- AREA OPEN TO CORRIDOR - (WITH SMOKE DETECTION)
- AREA OPEN TO CORRIDOR - (NO SMOKE DETECTION REQUIRED)
- EXIT STAIR OR PASSAGEWAY
- SPRINKLER/FIRE ALARM ZONE
- F — MANUAL PULL STATION
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- EXIT SIGN
- DIRECTION OF ILLUMINATION
- DIRECTION OF CHEVRON





GENERAL SHEET NOTES

EXISTING LIFE SAFETY DATA - SECOND FLOOR- BLDG 1

FULLY-SPRINKLERED MIXED OCCUPANCY

SECOND FLOOR EGRESS CAPACITY CALCULATIONS

Occupant load factors according to use were used to determine calculated occupant loads determined by dividing the floor area assigned to that use by the occupant load factor for that use.

Assembly = 15 net per person
Business = 150 per person
Health Care = 240 per person
Sleeping departments = 120 per person
Ambulatory = 150 per person

Total calculated 2nd floor occupant load = 734 persons

Total calculated Stair capacity (14 Stairs) = 2240 persons

The available calculated egress capacity compared to the calculated occupant load exceeds the minimum requirements as outlined by NFPA 101.

Stairs
Door Capacity
48"/0.2 = 240 persons
48"/0.2 = 240 persons
48"/.03 = 160 persons
Stairway capacity governs maximum stair occupant load = 160 persons per stair

SUITE DESCRIPTIONS

1. HUMAN RESOURCE/ RECRUITMENT SUITE, EXIT 2, NON-PATIENT CARE
   SIZE 1,160 SQ.F.
2. HUMAN RESOURCE, EXIT 2, NON-PATIENT CARE
   SIZE 2,268 SQ.F.
3. MRI SUITE, EXIT 2, NON-SLEEPING PATIENT CARE
   SIZE 4,545 SQ.F.
4. SPECIALTY CLINIC SUITE, EXIT 2, NON-SLEEPING PATIENT CARE
   SIZE 2,900 SQ.F.
5. NUCLEAR MEDICINE SUITE, EXIT 2, NON-SLEEPING PATIENT CARE
   SIZE 4,371 SQ.F.
6. DENTAL SUITE, EXIT 2, NON-SLEEPING PATIENT CARE
   SIZE 8,616 SQ.F.

N

1 **LIFE SAFETY PLAN - EXISTING SECOND FLOOR**

1/16" = 1'-0"

0 8" 16" 32'

ISSUED FOR BID	**05/15/2026**
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Revisions:	**Date:**

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Bancroft Project No. 23-135

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LICENSED ARCHITECT — DENNIS J NIKA — 001-011989 — 5/15/26 — STATE OF ILLINOIS — Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
GENERAL - LIFE SAFETY PLAN - EXISTING SECOND FLOOR

Phase
ISSUED FOR BID

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number
521-24-102

Building Number
#1

Approved: Project Director

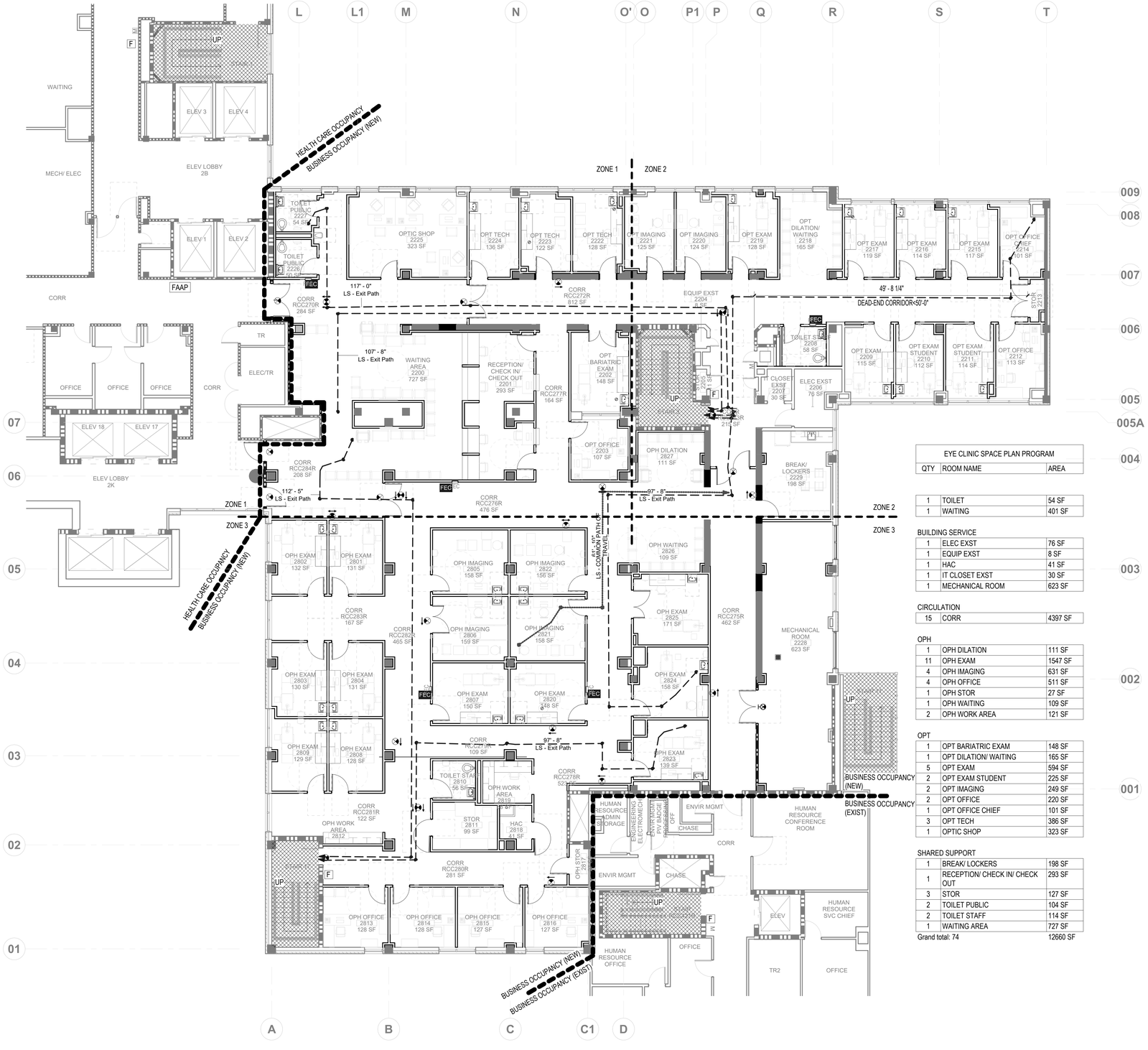
FULLY SPRINKLERED

Location
BIRMINGHAM VAMC

Issue Date 05/15/2026 | **Checked** CR | **Drawn** LD

Drawing Number
GI101.1

VA FORM 08-6231



1 LIFE SAFETY/SPACE PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

0 4' 8' 16'

N

EYE CLINIC SPACE PLAN PROGRAM		
QTY	ROOM NAME	AREA
1	TOILET	54 SF
1	WAITING	401 SF

BUILDING SERVICE

1	ELEC EXST	76 SF
1	EQUIP EXST	8 SF
1	HAC	41 SF
1	IT CLOSET EXST	30 SF
1	MECHANICAL ROOM	623 SF

CIRCULATION

15	CORR	4397 SF

OPH

1	OPH DILATION	111 SF
11	OPH EXAM	1547 SF
4	OPH IMAGING	631 SF
4	OPH OFFICE	511 SF
1	OPH STOR	27 SF
1	OPH WAITING	109 SF
2	OPH WORK AREA	121 SF

OPT

1	OPT BARIATRIC EXAM	148 SF
1	OPT DILATION/ WAITING	165 SF
5	OPT EXAM	594 SF
2	OPT EXAM STUDENT	225 SF
2	OPT IMAGING	249 SF
2	OPT OFFICE	220 SF
1	OPT OFFICE CHIEF	101 SF
3	OPT TECH	386 SF
1	OPTIC SHOP	323 SF

SHARED SUPPORT

1	BREAK/ LOCKERS	198 SF
1	RECEPTION/ CHECK IN/ CHECK OUT	293 SF
3	STOR	127 SF
2	TOILET PUBLIC	104 SF
2	TOILET STAFF	114 SF
1	WAITING AREA	727 SF
Grand total: 74		12660 SF

BUILDING CODE REVIEW

CONSTRUCTION CLASSIFICATIONS:	TYPE II
AUTOMATIC FIRE SUPPRESSION:	ALL AREAS IN ACCORDANCE WITH NFPA 13
OCCUPANCY CLASSIFICATIONS:	BUSINESS AND HEALTH CARE
AREA OF WORK:	PROJECT AREA APPROXIMATELY: 13, 600 SF - SECOND FLOOR

APPLICABLE CODES

AUTHORITY HAVING JURISDICTION: VISN 07 SAFETY OFFICER
ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES:

1. VA DIRECTORIES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL) (HTTP://WWW.CFM.VA.GOV/TIL/)
2. INTERNATIONAL BUILDING CODE (IBC) (ONLY PERTAINING TO ITEMS NOT ADDRESSED BY NFPA 101)
3. NFPA 101 LIFE SAFETY CODE
4. NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900
5. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS
6. VA SEISMIC DESIGN REQUIREMENTS, H-18-8
7. NATIONAL ELECTRICAL CODE (NEC)
8. INTERNATIONAL PLUMBING CODE (IPC)
9. ASME BOILER AND PRESSURE VESSEL CODE
10. ASME CODE FOR PRESSURE PIPING
11. ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS) INCLUDING VA SUPPLEMENT
12. BARRIER FREE DESIGN GUIDE (PG-18-13)
13. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318)
14. INTERNATIONAL MECHANICAL CODE

BUILDING DATA

OCCUPANCY		BUSINESS
APPLICABLE CODE		NFPA 101
CONSTRUCTION TYPE		TYPE II (NFPA 220)
GROSS AREA:	SECOND FLOOR 13,150 SF	

AREA SEPARATION PROTECTION

APPLICABLE CODE	SECTION	NFPA 101 (REQUIRED)	PROVIDED
OCCUPANCY SEPERATION BUSINESS (B) / INSTITUTIONAL (I-2)	6.1.14.4.1(b)	2-HOUR	2-HOUR
STORAGE (INCINDENTAL USE) WHERE DEGREE OF HAZARD IS GREATER THAN GENERAL OCCUPANCY	38.3.2.2	1-HOUR	1-HOUR
STAIR ENCLOSURE	7.1.3.2.1 (3)(b)	1-HOUR MIN	2-HOURS (EXIST)

* NOTE - IF BUILDING PROTECTED THROUGHOUT BY APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH (NFPA 101) 9.7.1.1(1)

EGRESS REQUIREMENTS

	SECTION	NFPA 101
OCCUPANCY LOAD BUSINESS (B) OCCUPANCY 150 sq f/person	7.3.1.2	88 OCCUPANTS
EXIT TRAVEL DISTANCE BUSINESS (B) OCCUPANCY	38.2.6.3	300'
CORRIDOR WIDTH (MIN.) BUSINESS (B) OCCUPANCY	38.2.3.2 and 7.3.4.1	44" MIN
DEAD END CORRIDORS BUSINESS (B) OCCUPANCY	38.2.5.3.1	50'
COMMON PATH OF TRAVEL: BUSINESS (B) OCCUPANCY	38.2.5.2.1	100'
MINIMUM HEADROOM	7.1.5.1 (1)	7'-0"

EMERGENCY EGRESS ILLUMINATION: AVERAGE OF 1.0 FOOT CANDLES AT EGRESS PATHS WITH A MIN. OF 0.1 CANDLE AT ANY POINT.

POWER SUPPLY: MEANS OF EGRESS ILLUMINATION NORMAL POWER IS TO BE PROVIDED BY PREMISE'S ELECTRICAL SYSTEM.
a. EGRESS ILLUMINATION: EITHER BATTERIES, SECOND PRIMARY SOURCE OR GENERATOR WITH A MIN. OF A 1 1/2 HOUR DURATION.
b. EXIT SIGNS: ILLUMINATED AT ALL TIME, EMERGENCY POWER REQ. WITH 1 1/2 HOUR DURATION.

FIRE EXTINGUISHER REQUIREMENTS

FIRE EXTINGUISHER REQUIREMENTS NFPA 10: (NFPA 10, 2021, TABLE 6.2.1.1)

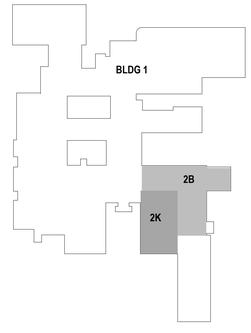
HAZARD TYPE: TYPE A, ORDINARY HAZARD.
FE 2A (ORDINARY HAZARD) - 3,000 SF MAX FLOOR AREA
MAX TRAVEL TO EXTINGUISHER: 75' REQUIRED: 5 PROVIDED: 5

GENERAL SHEET NOTES

1. SEE SHEET GI101.1 FOR OVERALL SECOND FLOOR LIFE SAFETY PLAN.
2. SEE AE501 FOR PARTITION TYPES DETAILS.

LEGEND

- 2 HOUR FIRE -RATED BARRIER EXISTING
- 1 HOUR FIRE -RATED BARRIER EXISTING
- NON-RATED SMOKE PARTITION EXISTING
- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- NON-RATED SMOKE PARTITION
- OCCUPANCY SEPARATION
- STARTING POINT OF TRAVEL
- MAXIMUM EGRESS TRAVEL DISTANCE
- DISTANCE — MAXIMUM COMMON PATH OF EGRESS TRAVEL
- FEC — FIRE EXTINGUISHER CABINET
- F — MANUAL PULL STATION (SEE MEP & FP DWG'S FOR LOCATIONS)
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- EXIT SIGN (SEE MEP & FP DWG'S FOR EXIT LOCATIONS)
- EGRESS STAIR
- XXX SF / X / XXX | XX — OCCUPANCY LOAD ANNOTATION: ROOM AREA; USE GROUP; LOAD FACTOR/ OCCUPANT LOAD



KEYPLAN

ISSUED FOR BID	05/15/2026
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LICENSED ARCHITECT — ZONG JIBO — 001.014982 — 05/15/26 — STATE OF ILLINOIS — EXP. 11/30/26

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: GENERAL - LIFE SAFETY/SPACE PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

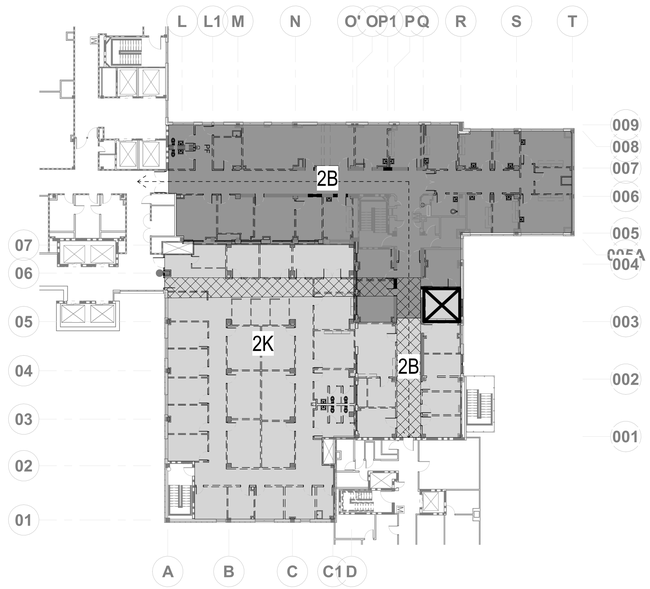
Drawn: LD

Project Number: 521-24-102

Building Number: #1

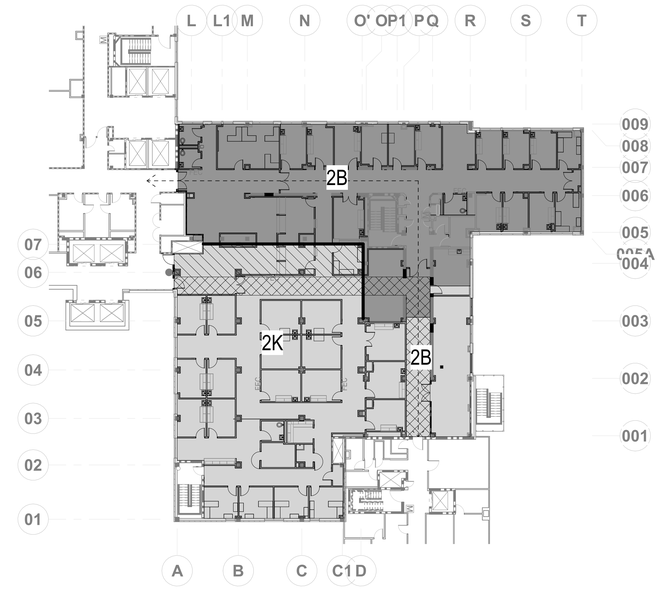
Drawing Number: GI101.2

VA FORM 08-6231



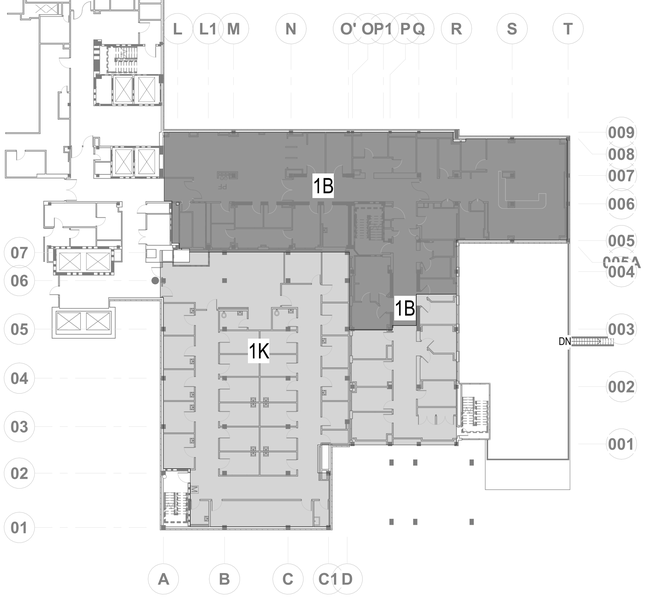
1 PHASING PLAN - PARTIAL SECOND FLOOR - DEMOLITION - 2K, 2B AREAS

3/64" = 1'-0"



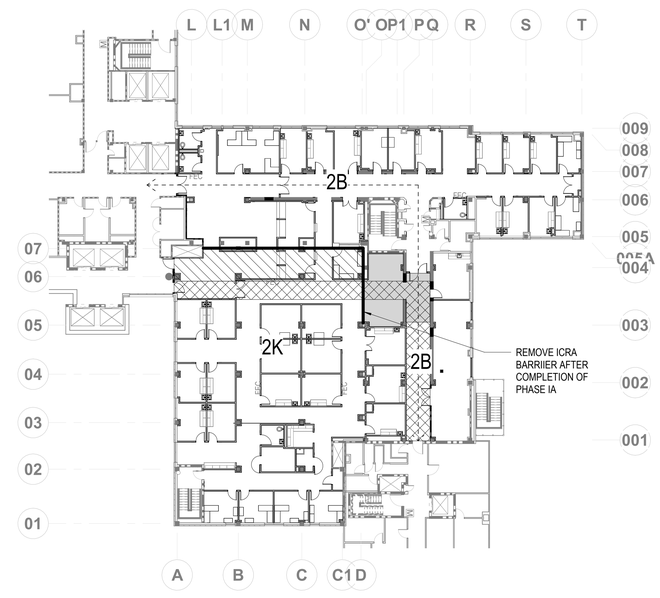
2 PHASING PLAN - PARTIAL SECOND FLOOR - NEW WORK - 2K, 2B AREAS

3/64" = 1'-0"



3 PHASING PLAN - PARTIAL FIRST FLOOR - 1K, 1B, 1C AREAS

3/64" = 1'-0"



4 PHASING PLAN - PARTIAL SECOND FLOOR - NEW WORK - PHASE 1A

3/64" = 1'-0"

PHASING SHEET NOTES

A. COORDINATE ALL PHASING / SEQUENCE OF WORK WITH THE VA.
B. COORDINATE ALL PHASING / SEQUENCE OF WORK WITH INFECTION CONTROL PLANS.
C. COORDINATE ANY TEMPORARY CLOSING OF CORRIDORS WITH THE VA.
D. PROVIDE ALL REQUIRED TEMPORARY SIGNAGE AS REQUIRED TO ROUTE PERSONNEL DURING THE PHASED CONSTRUCTION.
E. 2K OCCUPANTS TO BE VACATED BY THE VA. COORDINATE PHASING/SEQUENCE OF WORK SO THAT OPTOMETRY AND OPHTHALMOLOGY DEPARTMENTS MAINTAIN UNINTERRUPTED OPERATION DURING BUSINESS HOURS.

LEGEND

- PHASE I CONSTRUCTION OPH RELOCATION (DEMOLITION AND NEW WORK 2K/1K + 2B RELOCATE)
- PHASE IA OPH NEW WAITING AREA
- PHASE II CONSTRUCTION OPT RELOCATION (DEMOLITION AND NEW WORK 2B/1B+1C RELOCATE)
- MAINTAIN CORRIDOR/TRAFFIC CONTINUOUS ACCESS (COORDINATE OFF-HOURS WORK AS NEEDED WITH THE VA TO MAINTAIN ACCESS
- TEMPORARY ACCESS, COORDINATE WORK TO ACCOMMODATE UNINTERRUPTED ACCESS VIA CORRIDOR DURING ACTIVE CONSTRUCTION IN PHASE I-WING K
- TEMPORARY OPHTHALMOLOGY WAITING/CHECK IN AREA DURING PHASE II CONSTRUCTION
- TEMPORARY ICRA BARRIER
- EXISTING OPH OFFICE TO RECEIVE SWINGS SPACE, VA TO COORDINATE BETWEEN EXISTING MECH. RM 2206 AND OPTICAL SHOP. SEE 1/GI102

PHASING / SEQUENCE OF WORK

PHASE I - OPHTHALMOLOGY

SEQUENCE OF WORK:

1. DEMOLITION OF EXISTING 2K MENTAL HEALTH ADMIN AREA, SELECTIVE DEMOLITION ABOVE CEILING AS REQUIRED IN 1K AREAS BELOW SCOPE OF WORK ON SECOND FLOOR
2. NEW WORK IN 2K
3. RELOCATION OF OPHTHALMOLOGY FROM EXISTING 2B TO NEW AREAS IN 2K

PHASE 1A - NEW WAITING AREA OPHTHALMOLOGY

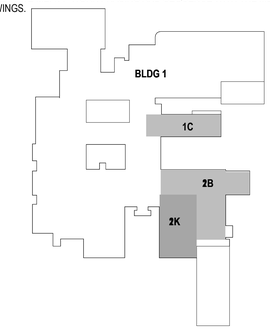
PHASE II - OPTOMETRY

SEQUENCE OF WORK:

1. DEMOLITION OF EXISTING 2B OPHTHALMOLOGY AREAS
2. NEW WORK IN 2B TO PREP AREAS FOR OPTOMETRY LAYOUT
3. RELOCATION OF OPTOMETRY FROM EXISTING 1C TO NEW ARES IN 2B

NOTE:
FINISH WAITING AREA CONNECTION BETWEEN PHASE I AND PHASE II AFTER PHASE IA IS COMPLETE AND OPH WAITING/DILATION AREA IS OPERATIONAL.

COORDINATE MEP/FP WORK PHASING AND SEQUENCE WITH THE MEP/FP DRAWINGS.



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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STAMP

LICENSED ARCHITECT DENNIS J WAX 001-013589 STATE OF ILLINOIS 5/15/26 Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERAL - PHASING PLAN - PARTIAL FIRST AND SECOND FLOOR - K, B, C AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

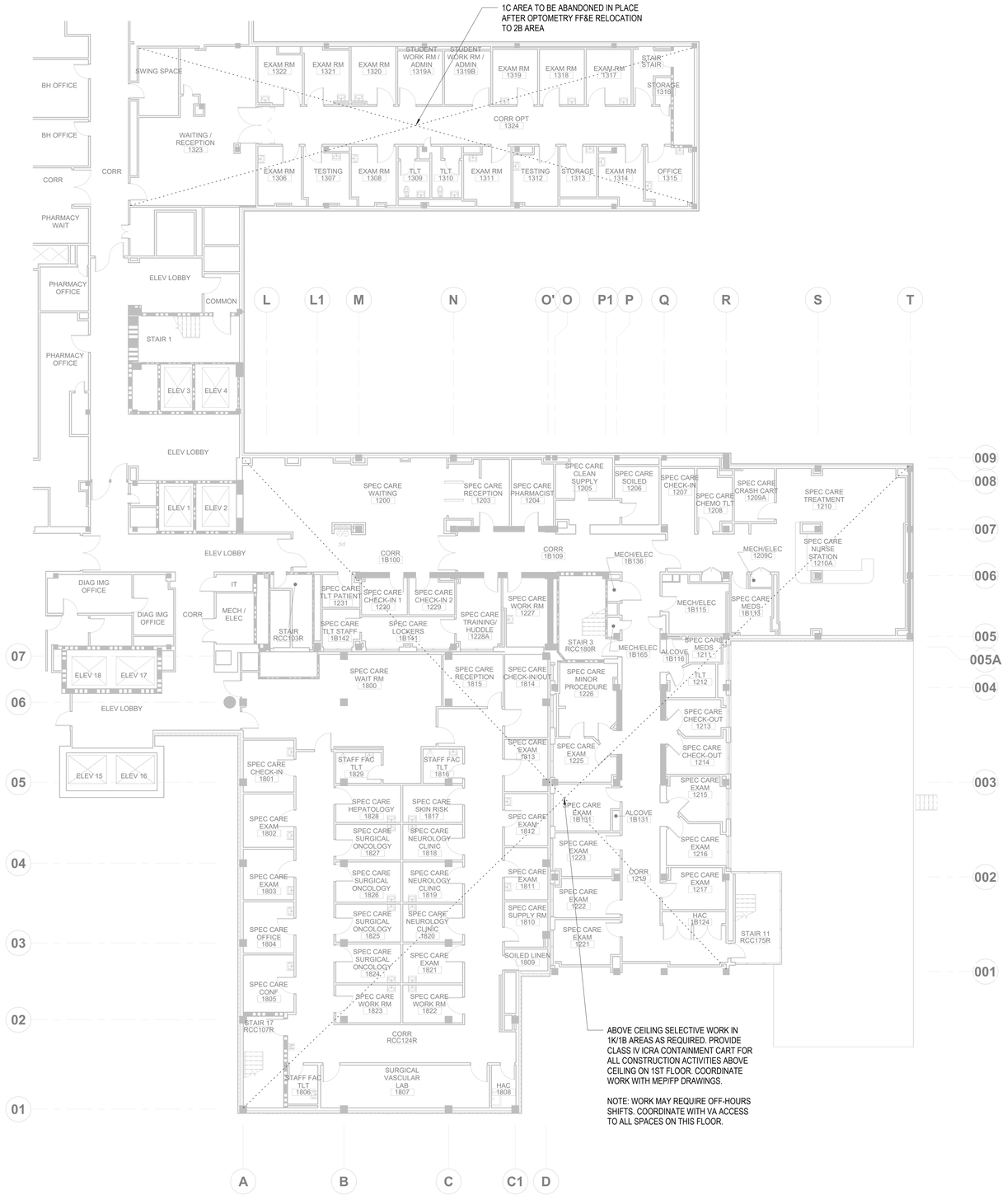
Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: GI102

VA FORM 08-6231



N

1 **INFECTION CONTROL - PARTIAL FIRST FLOOR PLAN - 1K, 1B, 1C AREAS**

3/32" = 1'-0"

0 8' 16' 24'

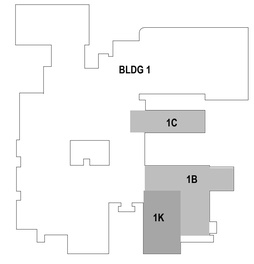
GENERAL SHEET NOTES

A. SEE GI003 FOR INFECTION CONTROL SHEET NOTES AND CONSTRUCTION PROJECT ACTIVITY TYPE.
B. SEE GI102 FOR PHASING AND SEQUENCE OF WORK. COORDINATE ACTIVITIES WITH THE VA.
C. TEMPORARY BARRIERS SHOWN FOR INFORMATION ONLY. PROVIDE ADDITIONAL TEMPORARY BARRIERS PER PHASING/SEQUENEC OF WORK AS CONSTRUCTION ACTIVITIES PROGRESS.

LEGEND

- MATERIAL DELIVERY/DEBRIS REMOVAL:
- TEMPORARY CONSTRUCTION BARRIER, SEE 5/GC501
- TEMPORARY CONSTRUCTION DOOR
- WALK-OFF MAT

KEYNOTES



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
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Bancroft Project No. 23-135

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERAL - INFECTION CONTROL PLAN - PARTIAL FIRST FLOOR - 1K, 1B, 1C AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

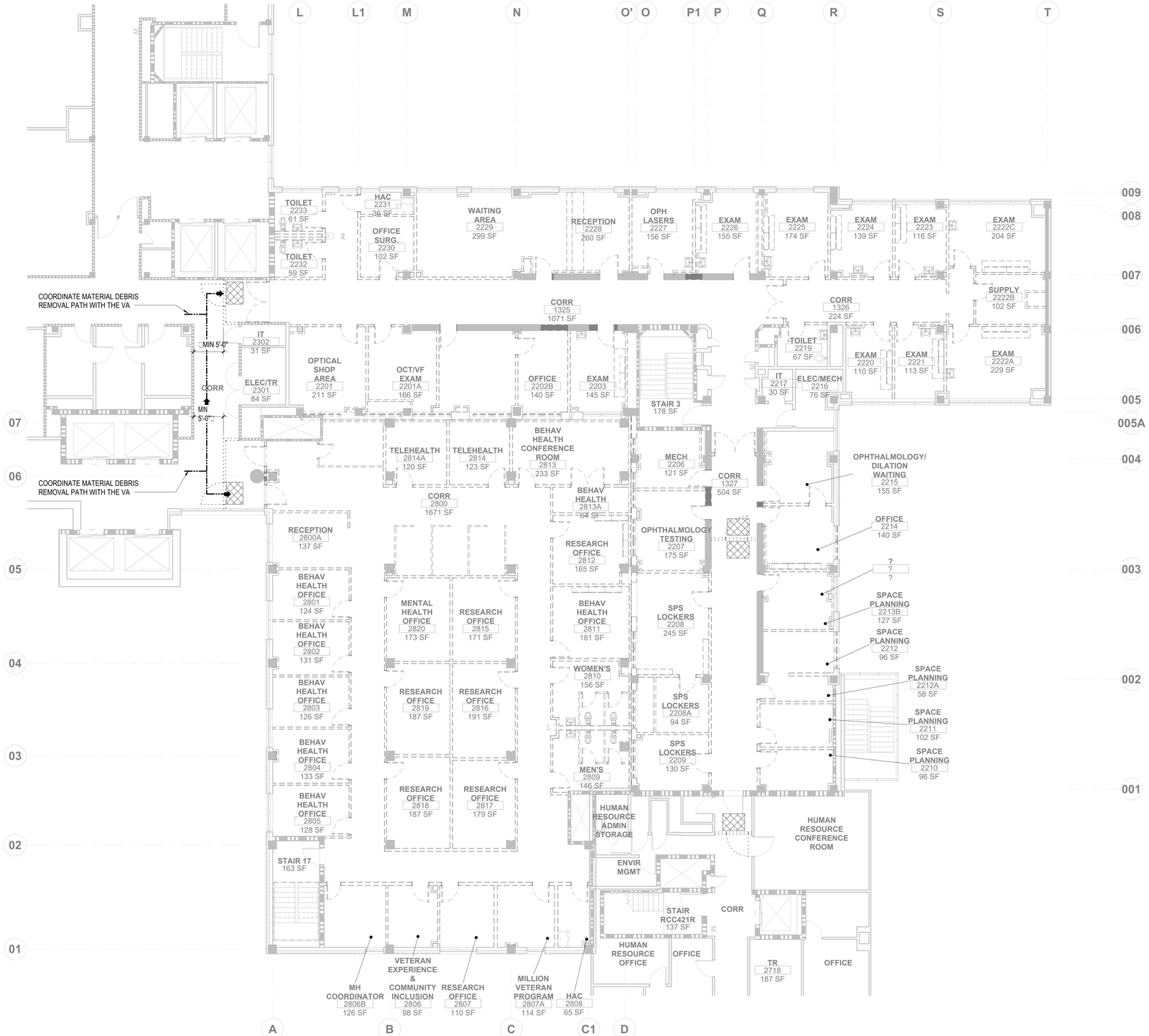
Drawing Number: GC401

Issue Date: 05/15/2026

Checked: CR

Drawn: LD

VA FORM 08-6231



N

1 **INFECTION CONTROL - PARTIAL SECOND FLOOR - 2K, 2B AREAS**

1/8" = 1'-0"

0 4' 8' 16'

GENERAL SHEET NOTES

A. SEE GI003 FOR INFECTION CONTROL SHEET NOTES AND CONSTRUCTION PROJECT ACTIVITY TYPE.
B. SEE GI102 FOR PHASING AND SEQUENCE OF WORK. COORDINATE ACTIVITIES WITH THE VA.
C. TEMPORARY BARRIERS SHOWN FOR INFORMATION ONLY. PROVIDE ADDITIONAL TEMPORARY BARRIERS PER PHASING/SEQUENEC OF WORK AS CONSTRUCTION ACTIVITIES PROGRESS.

LEGEND

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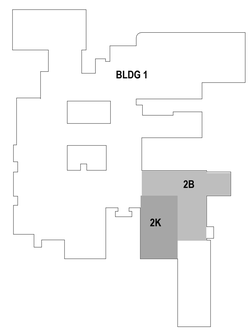
- TEMPORARY CONSTRUCTION BARRIER, SEE 5/GC501
- TEMPORARY CONSTRUCTION DOOR
- WALK-OFF MAT

KEYNOTES



KEYPLAN

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DENNIS J. RIPICH
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LICENSED ARCHITECT
STATE OF ILLINOIS
Exp. 11/30/2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: GENERAL - INFECTION CONTROL PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

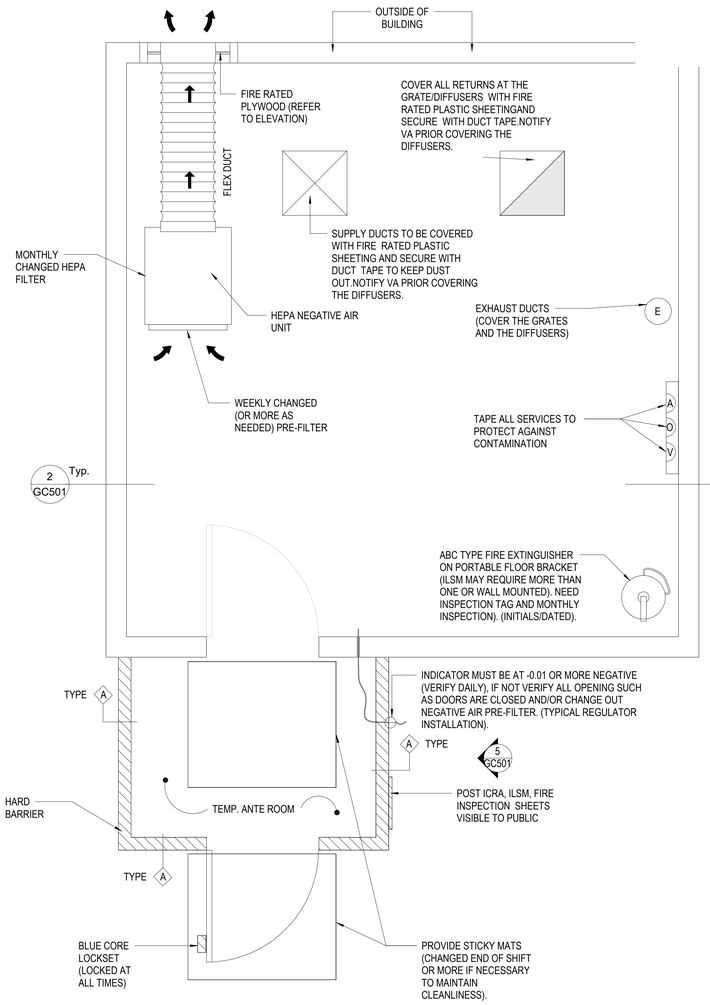
Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

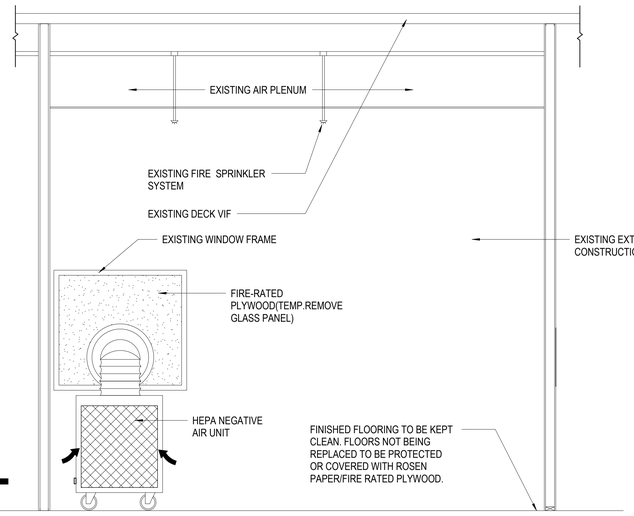
Drawing Number: GC402

VA FORM 08-6231



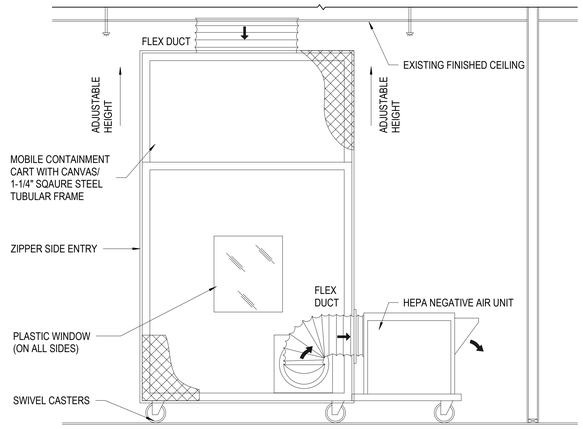
1 TYPICAL CLASS IV - CONSTRUCTION LAYOUT

1/2" = 1'-0"



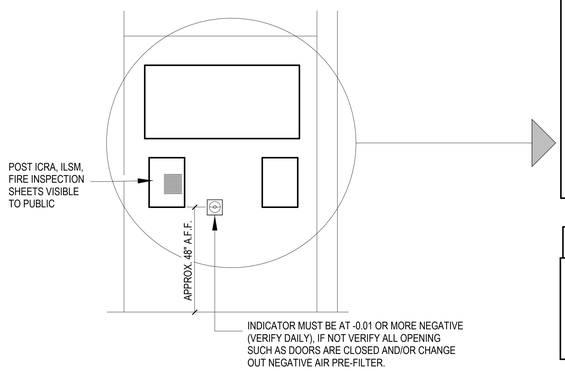
2 TYPICAL CLASS IV - CROSS SECTION 'B-B'

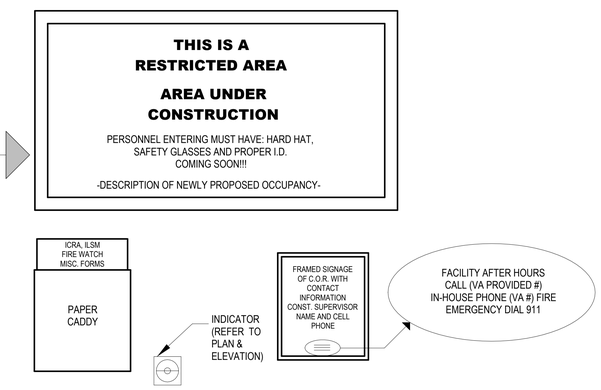
1/2" = 1'-0"



4 MOBILE CONTAINMENT CART

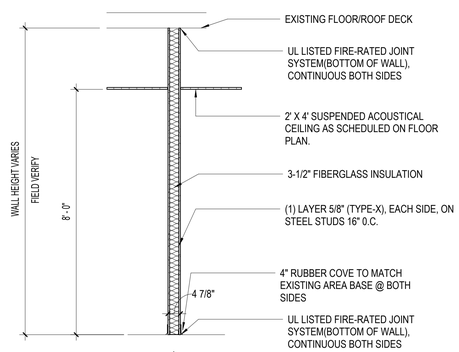
1/2" = 1'-0"





3 TYPICAL CLASS IV - ANTE ROOM ELEVATION

1/2" = 1'-0"



5 INTERIOR TEMPORARY CONSTRUCTION BARRIER TYPES

1/2" = 1'-0"

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
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65% DESIGN DEVELOPMENT SUBMITTAL	**09/08/2025**
Revisions:	**Date:**

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LICENSED ARCHITECT DENNIS J WIKO 001-013589 STATE OF ILLINOIS
Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title GENERAL - INFECTION CONTROL - TYPICAL CLASS IV

Phase ISSUED FOR BID

Project Title RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number 521-24-102

Building Number #1

Approved: Project Director

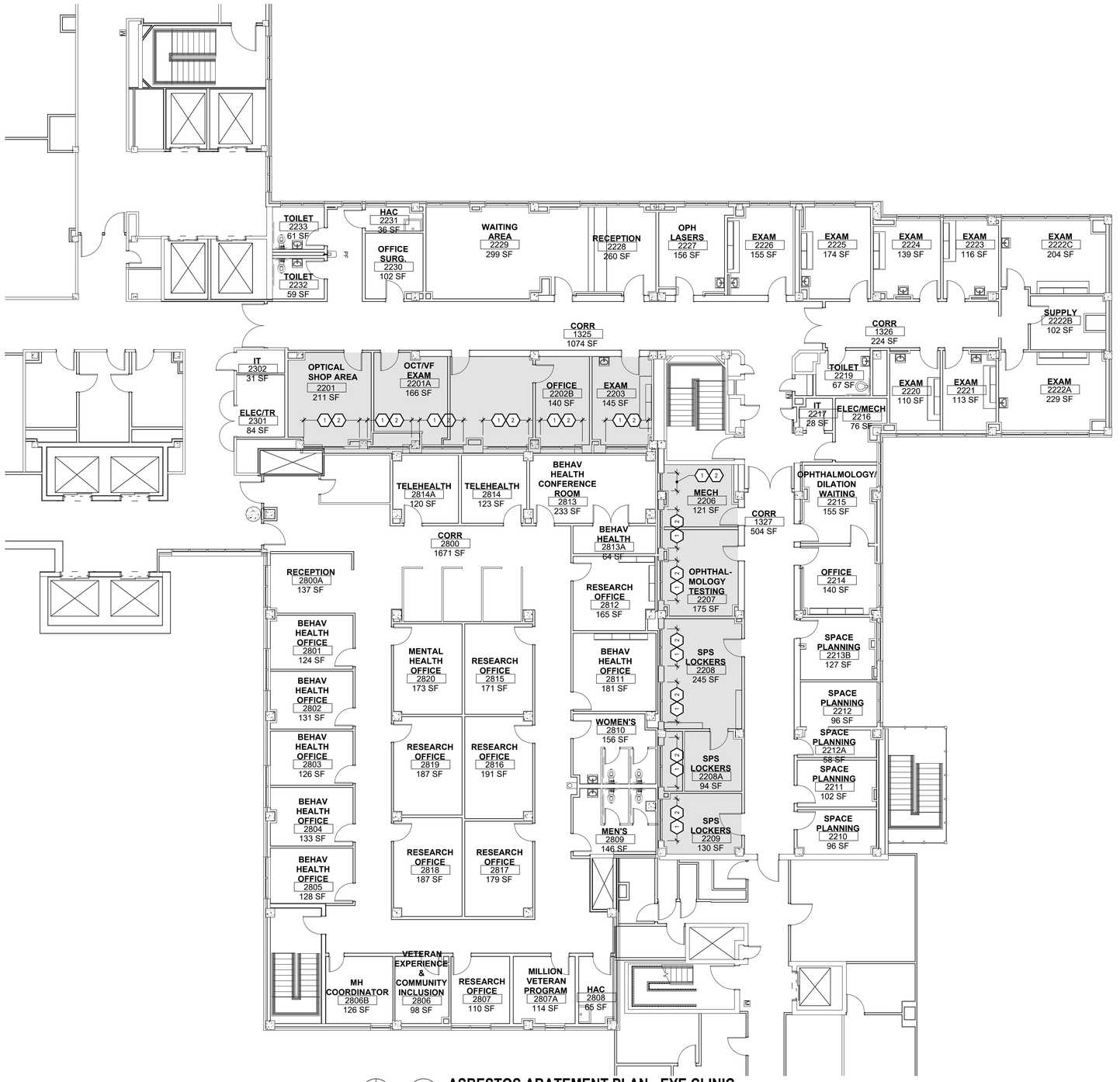
FULLY SPRINKLERED

Location BIRMINGHAM VAMC

Issue Date 05/15/2026 | **Checked** CR | **Drawn** LD

Drawing Number GC501

VA FORM 08-6231



1 **ASBESTOS ABATEMENT PLAN - EYE CLINIC**

1/8" = 1'-0"

LEGEND

AREA OF WORK

KEYED ASBESTOS ABATEMENT NOTES

1. DISPOSE OF ASBESTOS-CONTAINING WINDOW GLAZING. WINDOW SHALL BE REMOVED IN ITS ENTIRETY.
2. DISPOSE OF ASBESTOS-CONTAINING WATERPROOFING ON BRICK AND NON-ASBESTOS WALL PLASTER

ASBESTOS ABATEMENT NOTES

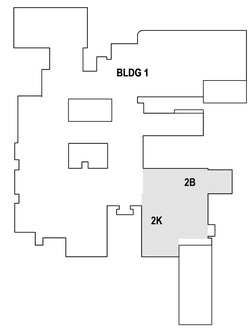
1. THIS PROJECT INVOLVES THE REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING: WINDOW GLAZING, WATERPROOFING AND NON-ASBESTOS CONTAINING PLASTER.
2. WORK HOURS: MONDAY - FRIDAY, 6:00 A.M. TO 7:00 P.M. ADDITIONAL TIME MAY BE GIVEN WITH A 48-HR NOTICE TO THE OWNER.
3. SMOKING OR THE USE OF ANY OTHER TOBACCO PRODUCTS IS NOT ALLOWED ON THE OWNER'S PREMISES WHICH INCLUDES PERSONAL OR COMPANY VEHICLES PARKED ON THE OWNER'S PROPERTY.
4. IT IS REQUIRED THAT THE ABATEMENT CONTRACTOR SHALL LOAD ALL ASBESTOS-CONTAINING MATERIALS DIRECTLY INTO A SEALED AND LOCKED DUMPSTER.
5. A SUFFICIENT NUMBER OF NEGATIVE AIR MACHINES SHALL BE PROVIDED TO ENSURE ADEQUATE AIR MOVEMENT WITHIN THE CONTAINMENT. ALL NEGATIVE AIR MACHINES SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING AS DIRECTED. SMOKE TESTING MAY BE DONE TO ENSURE A PROPER NEGATIVE PRESSURE DIFFERENTIAL.
6. THE ABATEMENT CONTRACTOR MAY BE REQUIRED TO USE WIRE REINFORCED EXHAUST TUBING. ALL EXHAUST TUBING MUST BE SECURELY FASTENED TO THE NEGATIVE AIR MACHINE AND THE WINDOW (OR BUILDING EXIT).
7. RESPIRATOR PROTECTION, PROTECTIVE CLOTHING, AND PERSONAL-ZONE AIR MONITORING SHALL BE REQUIRED DURING ALL ABATEMENT. REFER TO SPECIFICATIONS.
8. THE ABATEMENT CONTRACTOR IS NOT ALLOWED ACCESS TO ANY OTHER PORTION OF THE FACILITY. THE ABATEMENT CONTRACTOR MUST REMAIN INSIDE THE CONSTRUCTION LIMITS AS SPECIFIED ON THE PLANS.
9. THE ABATEMENT CONTRACTOR SHALL VISIT THE SITE AND INCLUDE ALL COSTS IN THE BID PRICE THAT MAY AFFECT CONSTRUCTION. EXAMPLES: CRANE, HOISTS, SCAFFOLDING, ETC.
10. THE BUILDING INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED FROM AVAILABLE BUILDING DRAWINGS, AND MAY NOT REPRESENT CURRENT "AS BUILT" CONSTRUCTION. ABATEMENT CONTRACTORS MUST VISIT THE SITE TO REVIEW EXISTING CONSTRUCTION AND INCLUDE ALL COSTS TO PERFORM THE WORK UNDER THE CONTRACT FOR THE EXISTING SITE CONDITIONS.
11. THE ABATEMENT CONTRACTOR IS REQUIRED TO PROTECT ALL FIRE SAFETY EQUIPMENT AND PROVIDE EMERGENCY EGRESS AT ALL TIMES. IF FIRE ALARM IS MISTAKENLY ACTIVATED, THE ABATEMENT CONTRACTOR SHALL BE BACK-CHARGED.
12. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF DEACTIVATION OF FIRE ALARM EQUIPMENT.
13. THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE SITE SECURE AT THE END OF EACH WORK SHIFT.
14. THE OWNER WILL REMOVE ALL MOVABLE OBJECTS FROM EACH WORK AREA PRIOR TO ABATEMENT WORK.
15. ALL CLEARANCES WILL BE PERFORMED USING PCM ANALYSIS.

GENERAL INFORMATION

1. YEAR OF CONSTRUCTION: 1946
2. ORIGINAL USE: HOSPITAL
3. NUMBER OF STORIES: 14
4. TOTAL BUILDING AREA: 709,778 SF

PHASING

TO BE DETERMINED



KEY PLAN

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
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Bancroft Project No. 23-135

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ASBESTOS ABATEMENT PLAN - EYE CLINIC

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 03/16/2026

Checked: CGS

Drawn: CMB

Project Number: 521-24-102

Building Number: #1

Drawing Number: ASB-01

VA FORM 08-6231

GENERAL NOTES

A. GENERAL

1. THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE DRAWINGS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT FOR CLARIFICATION.
2. BEFORE EXECUTING ANYTHING HEREIN SHOWN, EXAMINE ACTUAL JOB CONDITIONS. REPORT ANY DISCREPANCY, DIMENSIONAL OR OTHERWISE, BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS AND ANY OTHER ERROR, OMISSION, OR DIFFICULTY AFFECTING THE WORK TO THE ARCHITECT AND TO THE STRUCTURAL ENGINEER FOR REVIEW.
3. ANY CONDITION ENCOUNTERED IN THE EXISTING STRUCTURAL SYSTEM WHICH IS DIFFERENT FROM THAT INDICATED IN DRAWINGS OR WHICH MIGHT CREATE A FAILURE OR HAZARD SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
4. THE OWNER OR HIS REPRESENTATIVE RESERVES THE RIGHT TO INSPECT ANY MATERIALS, FABRICATION, OR WORKMANSHIP AT ANY TIME IN FIELD OR SHOP FOR CONFORMANCE TO THE SPECIFICATIONS AND DRAWINGS.
5. THE CONTRACTOR IS RESPONSIBLE FOR STRUCTURAL INTEGRITY AND STABILITY OF EXISTING STRUCTURES DURING DEMOLITION AND NEW CONSTRUCTION.

B. DESIGN

1. CODES SPECIFICATIONS AND STANDARDS (LATEST EDITIONS, U.N.O.)
   a. ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE (2021) AS AMENDED AND ADOPTED BY THE CITY OF BIRMINGHAM AL.
   b. ALL CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE FOLLOWING CODES, SPECIFICATIONS AND STANDARD, EXCEPT WHERE NOTED TO THE CONTRARY ON DRAWINGS AND SPECIFICATIONS OF WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED OF SHOWN:

MCIB	"SPECIFICATIONS FOR CONCRETE WORK"
ACI 117	"STANDARD SPECIFICATIONS FOR TOLERANCE FOR CONCRETE CONSTRUCTION AND MATERIALS"
MCIB	"SPECIFICATIONS FOR CONCRETE WORK"
ACI 117	"STANDARD SPECIFICATIONS FOR TOLERANCE FOR CONCRETE
ACI 301	"SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
ACI 318	"BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
ASCE 7	"MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
AISC	"LOAD AND RESISTANCE FACTOR DESIGN (LRFD) FOR SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
AISI	"SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
SJI	"SPECIFICATIONS, LOAD TABLES, AND WEIGHT TABLES FOR STEEL JOIST AND JOIST GIRDERS"
SDI	"STEEL DECK MANUAL FOR FLOOR DECKS AND ROOF DECKS"
AWS D1.1	"STRUCTURAL WELDING CODE - STEEL"

2. DESIGN LOADS:
   a. ROOF - SNOW (INCL. RAIN OR SNOW)

- GROUND SNOW LOAD, Pg	36 psf
- SNOW EXPOSURE FACTOR, Ce	1.00
- SNOW IMPORTANCE FACTOR, Is	1.00
- THERMAL FACTOR, Ct	1.00
- FLAT ROOF SNOW LOAD, Pf	30 psf

   b. WIND

- BASIC WIND SPEED (3 SECOND GUST),	118 mph
- RISK CATEGORY	IV
- WIND EXPOSURE	B
- INTERNAL PRESSURE COEFFICIENT	0.18

   c. SEISMIC

- RISK CATEGORY	IV
- SITE CLASS	D-DEFAULT
- SEISMIC INFORTANCE FACTOR, Ie	1.5
- SPECTRAL RESPONSE ACCELERATION, Ss	0.33g
- SPECTRAL RESPONSE ACCELERATION, S1	0.120g
- SPECTRAL RESPONSE COEFFICIENT, Sds	0.26g
- SPECTRAL RESPONSE COEFFICIENT, Sdl	0.16g
- SEISMIC DESIGN CATEGORY	D
- BASIC SEISMIC-FORCE-RESISTING SYSTEM: CONCRETE SHEAR WALLS	
- SEISMIC RESPONSE COEFFICIENT, Cs	.054W
- RESPONSE MODIFICATION FACTOR, R	6
- ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

C. CONCRETE

1. CONCRETE USED IN THE WORK SHALL HAVE THE FOLLOWING MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTHS: 4000 psi
2. PORTLAND CEMENT: ASTM C 150, TYPE 1.
3. WATER-REDUCING ADMIXTURES: ASTM C 494.
4. NORMAL WEIGHT AGGREGATES: ASTM C 33.
5. IN CASE OF INTEGRAL CONSTRUCTION, HIGHER STRENGTH AND LIGHTER WEIGHT GOVERNS.
6. AIR ENTRAIN ALL EXTERIOR CONCRETE (ADMIXTURE: ASTM C 260)
7. DO NOT USE CALCIUM CHLORIDE ADMIXTURES UNDER ANY CIRCUMSTANCES.
8. REINFORCING BARS: ASTM A 615 SPECIFICATIONS, GRADE 60, DEFORMED. BEND BARS COLD.
9. WELDED WIRE REINFORCING (WWR): ASTM A 185.
10. ANCHOR BOLTS: REFER TO "STEEL" NOTES. ACCURATELY LOCATE ANCHOR BOLTS WITH TEMPLATES, AND HOLD SECURELY IN POSITION PRIOR TO AND WHILE PLACING CONCRETE. PROTECT ANCHOR BOLTS FROM CONSTRUCTION ACTIVITY UNTIL THE STRUCTURE ABOVE IS IN PLACE. INSERTING ANCHOR BOLTS INTO PARTIALLY HARDENED CONCRETE IS PROHIBITED.
11. MAINTAIN MINIMUM CONCRETE COVERAGE FOR REINFORCING AS INDICATED, UNLESS NOTED OTHERWISE.
    a. 3 INCH CLEAR WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH.
    b. 2 INCH CLEAR WHERE CONCRETE IS EXPOSED TO EARTH OR WEATHER BUT POURED AGAINST FORMS FOR BARS LARGER THAN #5.
    c. 1 1/2 INCH CLEAR WHERE CONCRETE IS EXPOSED TO EARTH OR WEATHER, BUT POURED AGAINST FORMS FOR #5 OR SMALLER.
    d. 3/4 INCH CLEAR FOR SLABS AND WALLS FORMED ABOVE GRADE NOT EXPOSED TO WEATHER.
    e. 1 1/2 INCH CLEAR FOR BEAM AND COLUMNS FORMED ABOVE GRADE AND NOT EXPOSED TO WEATHER..

C. CONCRETE CONTINUED

12. LAP ALL BARS AT SPLICES IN ACCORDANCE WITH ACI 318, BUT NOT LESS THAN 48 BAR DIAMETERS NOR LESS THAN 18 INCHES UNLESS NOTED OTHERWISE. ALL HORIZONTAL WALL BARS SHALL BE DEVELOPED AT CORNERS EITHER BY BENDING NOT LESS THAN 18 INCHES AROUND CORNERS OR WITH PROPERLY PLACED HOOKED AND LAPPED CORNER BARS. LAP WWR A MINIMUM OF 9". REFERENCE TYPICAL DETAILS FOR COLUMN SPLICE REQUIREMENTS.
13. TOP AND BOTTOM BARS IN CONTINUOUS FOOTINGS SHALL RUN CONTINUOUS THROUGH MULTIPLE SPANS, WHERE POSSIBLE. OTHERWISE, TOP BARS SHALL SPLICE WITHIN THE MIDDLE 1/3 SPAN AND BOTTOM BARS SHALL SPLICE (BY LAPPING 3'-0") OVER SUPPORTS.
14. POUR COLUMNS, WALLS, AND PILASTERS TO BE MONOLITHIC.
15. ALL BAR STEEL AND WWR SHALL BE PROPERLY SUPPORTED AND HELD ACCURATELY IN PLACE AS RECOMMENDED BY THE CONCRETE REINFORCING STEEL INSTITUTE, EXCEPT THAT MAXIMUM SPACING OF ANY BAR OR WELDED WIRE FABRIC SUPPORT SHALL BE 3 FEET.
    a. SUPPORT TOP SLAB BARS WITH CONTINUOUS HIGH CHAIRS.
    b. SUPPORT BEAM BARS ON HEAVY BEAM BOLSTERS.
    c. SUPPORT FOOTING AND GRADE BEAM BOTTOM REINFORCING ON CONCRETE BRICKS, CONCRETE BLOCKS, OR MOUNDS OF POURED CONCRETE. DO NOT USE ANY OTHER SUPPORT MATERIALS WITHOUT THE APPROVAL OF THE ENGINEER.
    d. SUPPORT WWR IN SLABS-ON-GRADE PROPERLY AT THE MID-DEPTH OF THE SLAB. HOOKING AND PULLING UP MESH AFTER CONCRETE HAS STARTED TO TAKE ITS INITIAL SET IS PROHIBITED.
16. INTERIOR SLABS-ON-GRADE: REFERENCE DRAWINGS FOR THICKNESS OF SLAB AND SIZE OF WWR REINFORCEMENT. PLACE SLAB ON A 15 MIL. VAPOR BARRIER OVER A FREE DRAINING GRANULAR SUB-BASE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
17. WHERE SLABS-ON-GRADE MAKE AN ABRUPT CHANGE IN DIRECTION, SUCH AS AT DOORS AND CORNERS OR ENDS OF WALLS, PROVIDE (1) #4 BY 4 FEET ACROSS THE REENTRANT CORNER.
18. OPENINGS IN SLABS AND WALLS: PROVIDE 2 - #5 EXTRA BARS EACH SIDE OF OPENING EXTENDING 2 FEET PAST THE OPENING, UNLESS NOTED OTHERWISE. DO NOT PROVIDE OR CUT ANY OPENINGS OR SLEEVES IN SLABS OR WALLS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
19. VOID FORMS: EPS GEOFOAM ASTM D6817 TYPE EPS 15 WITH MINIMUM COMPRESSIVE RESISTANCE OF 3.6 PSI AT 1% DEFORMATION

D. STEEL

1. STRUCTURAL STEEL:

a.	WIDE FLANGE SECTIONS	ASTM A 992
b.	WT SHAPES	ASTM A 992
c.	CHANNELS, ANGLES	ASTM A 36
d.	HSS (ROUND)	ASTM A 500, GRADE B
e.	HSS (RECTANGLE)	ASTM A 500, GRADE C
f.	PIPES (STANDARD, X AND XX)	ASTM A 501
g.	PLATES	ASTM A592, GRADE 50

2. BEAM AND COLUMN CONNECTIONS SHALL BE AS SHOWN ON PLANS.
3. EXCEPT WHERE SPECIFICALLY DETAILED, SINGLE PLATE AND/OR ECCENTRIC CONNECTIONS SHALL NOT BE USED WITHOUT SUPPORTING CALCULATIONS FROM THE FABRICATOR SHOWING ADEQUATE CAPACITY. THE CALCULATIONS SHALL BE MADE BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF PROJECT LOCATION.
4. HIGH STRENGTH BOLTS (STEEL-TO-STEEL CONNECTIONS): ASTM A 325N, SNUG TIGHTENED, BEARING TYPE.
5. ANCHOR BOLTS: ASTM F1554 GRADE 36
6. WELDED CONNECTIONS: AWS STANDARDS AND SPECIFICATIONS USING E70XX ELECTRODES, UNLESS NOTED OTHERWISE.
7. ENDS OF BEAMS WHICH HAVE COPES TO THE EXTENT THAT ALLOWABLE SHEAR OR BENDING STRESS OF STEEL IS EXCEEDED SHALL HAVE WEB PLATES OF SUFFICIENT SIZE WELDED TO THE BEAM TO REDUCE SUCH STRESSES.
8. PROVIDE HOLES REQUIRED FOR SECURING OTHER WORK TO STRUCTURAL STEEL FRAMING, AND FOR PASSAGE OF OTHER WORK THROUGH STEEL FRAMING MEMBERS, AS SHOWN ON FINAL SHOP DRAWINGS.
9. DO NOT FLAME CUT HOLES OR ENLARGE HOLES BY BURNING.
10. SET STRUCTURAL FRAMES ACCURATELY TO LINES AND ELEVATIONS INDICATED. ALIGN AND ADJUST VARIOUS MEMBERS FORMING APART OF A COMPLETE FRAME OR STRUCTURE BEFORE PERMANENTLY FASTENING. PERFORM NECESSARY ADJUSTMENTS TO COMPENSATE FOR DISCREPANCIES IN ELEVATIONS AND ALIGNMENT.
11. PROVIDE TEMPORARY SHORING AND BRACING MEMBERS WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY MEMBERS AND CONNECTIONS WHEN PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE. PROVIDE TEMPORARY GUY LINE TO ACHIEVE PROPER ALIGNMENT OF STRUCTURE AS ERECTION PROCEEDS.
12. CLEAN BEARING SURFACES OF BOND-REDUCING MATERIALS AND ROUGHEN TO IMPROVE BOND TO SURFACES. CLEAN BOTTOM SURFACE OF BASE PLATES.
13. GROUT PLATES ARE PROHIBITED. TIGHTEN ANCHOR BOLTS AFTER SUPPORTED MEMBERS HAVE BEEN POSITIONED AND PLUMBED. DO NOT REMOVE WEDGES OR SHIMS, BUT IF PROTRUDING, CUT OFF FLUSH WITH EDGE OF BASE PLATE PRIOR TO PACKING
14. NONSHRINK GROUT: CRD-621 TYPE A, PREMIXED, NONMETALLIC, NONCORROSIVE
15. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY DIETRICH INDUSTRIES, INC. FOR LIGHT GAUGE METAL FRAMING SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS. ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING TEN (10) DAYS PRIOR TO ORDERING MATERIALS, BY THE ARCHITECT AND/OR ENGINEER OF RECORD.
16. ALL EXPOSED STEEL SHALL BE HOT-DIP GALVANIZED FINISH: APPLY ZINC COATING BY THE HOT-DIP PROCESS TO STRUCTURAL STEEL ACCORDING TO ASTM A 123M.
17. REPAIR DAMAGED GALVANIZED COATINGS ON GALVANIZED REPAIR PAINT ACCORDING TO ASTM A 780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

E. POST-INSTALLED ANCHORS

1. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES:
   a. ANCHORAGE TO CONCRETE AND GROUTED CMU WALLS.
      i. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND/OR ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. ADHESIVE ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER WHERE DESIGNATED ON THE CONTRACT DOCUMENTS.
      ii. SCREW ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND/OR ICC-ES APPLICATIONS.
         1. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
         2. DRILL HOLES FOR WEDGE-TYPE EXPANSION ANCHORS USING A BIT INCAPABLE OF CUTTING STEEL. DO NOT CUT EXISTING CONCRETE REINFORCING STEEL. IF, WHILE DRILLING, REINFORCING STEEL IS ENCOUNTERED, NOTIFY THE STRUCTURAL ENGINEER FOR APPROVAL OF NEW LOCATION. CLEAN AND PATCH THE ABANDONED HOLE WITH GROUT. ALWAYS FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS.
         3. IF A SPECIFIC EPOXY ADHESIVE ANCHORING SYSTEM IS NOTED IN A PARTICULAR DETAIL OF THIS CONSTRUCTION DRAWINGS, OTHER ALTERNATIVE PRODUCT OPTIONS LISTED ABOVE IN ITEM 1 SHALL NOT APPLY.
2. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
3. DRILL HOLES FOR WEDGE-TYPE EXPANSION ANCHORS USING A BIT INCAPABLE OF CUTTING STEEL. DO NOT CUT EXISTING CONCRETE REINFORCING STEEL. IF, WHILE DRILLING, REINFORCING STEEL IS ENCOUNTERED, NOTIFY THE STRUCTURAL ENGINEER FOR APPROVAL OF NEW LOCATION. CLEAN AND PATCH THE ABANDONED HOLE WITH GROUT. ALWAYS FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. IF A SPECIFIC EPOXY ADHESIVE ANCHORING SYSTEM IS NOTED IN A PARTICULAR DETAIL OF THIS CONSTRUCTION DRAWINGS, OTHER ALTERNATIVE PRODUCT OPTIONS LISTED ABOVE IN ITEM 1 SHALL NOT APPLY.

F. CONSTRUCTION

1. PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADING DUE TO CONSTRUCTION.
2. PROTECT EXISTING BUILDING AS REQUIRED UNTIL ALL NEW CONSTRUCTION IS COMPLETE.
3. VERIFY ALL DIMENSIONS OF OR TO EXISTING CONSTRUCTION. ANY VARIATION FROM THAT SHOWN ON PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING.
4. HAUL OFF AND PROPERLY DISPOSE OF ALL MATERIAL DEMOLISHED FROM THE SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE BY THE OWNER.
5. FIELD VERIFY THE LOCATION AND DEPTH (OR HEIGHT) OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION IN ORDER TO PROVIDE ADEQUATE CLEARANCES AND TO INSURE NONINTERRUPTION OF SERVICE.
6. DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS. AS A MINIMUM:
   a. - CONTRACTOR WILL BE REQUIRED TO ACQUIRE A HOT WORK PERMIT BEFORE COMMENCING WITH ANY FLAME OR SPARK PRODUCING WORK.
   b. - REMOVE COMBUSTIBLE MATERIALS FROM AREAS OF WELDING AND SPARKS.
   c. - PROVIDE FIRE PROOF BLANKETS AND SHIELDS TO CONTAIN SPARKS WHERE COMBUSTIBLE MATERIALS CANNOT BE REMOVED.
   d. - PROVIDE A FIRE SAFETY OBSERVER WITH A FIRE EXTINGUISHER ON BOTH THE ROOF/FLOOR AND BELOW THE ROOF/FLOOR DURING WELDING NEAR THE ROOF STRUCTURE.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Material verification of high-strength bolts, nuts and washers:		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X
b. Manufacturer's certificate of compliance required.	-	X
2. Inspection of high-strength bolting:		
a. Snug tight joints	-	X
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direction tension indicator methods of installation.	-	X
c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.	X	-
3. Material verification of structural steel and cold-formed steel deck:		
a. For structural steel, identification markings to conform to AISC 360.	-	X
b. For other steel, identification markings to conform to ASTM standard specified in the approved construction documents.	-	X
c. Manufacturer's certified test reports.	-	X
4. Material verification of weld filler materials:		
a. Identification markings to conform to AWS specification in the construction documents.	-	X
b. Manufacturer's certificate of compliance required.	-	X
5. Inspection of welding:		
a. Structural steel and cold-formed steel deck:		
1. Complete and partial joint penetration groove welds	X	-
2. Multi-pass fillet welds	X	-
3. Single-pass fillet welds >5/16"	X	-
4. Plug and slot welds.	X	-
5. Single-pass fillet welds <5/16"	-	X
6. Floor and roof deck welds	-	X
6. Inspection of steel frame joint details for compliance		
a. Details such as bracing and stiffening	-	X
b. Member locations	-	X
c. Application of joint details at each connection	-	X

SPECIAL INSPECTION AND TESTING

1. The following tests and inspection shall be performed by an independent inspection agency employed by the owner and approved by the structural engineer and the building official Test and inspection reports shall be submitted to the owner, architect, structural engineer, and building official. Special inspection shall conform to Chapter 17 of the 2018 International Building Code.

CLASSIFICATION OF WORK REQUIRING SPECIAL INSPECTIONS

- Excavation and Filling
- Verification of Soils
- Placement of Reinforcing Steel
- Placement of Reinforced Concrete
- Testing of Reinforced Concrete
- Bolts Installed Concrete
- Structural Masonry
- Structural Welding
- High Strength Bolting
- Steel Frame Inspection
- Seismic Resistance
- Inspection of Structural Steel Fabricator
- Sprayed Fire-Resistant Materials
- Fire-Resistant Penetrations and Joints

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE STRUCTURE

TYPE	CONTINUOUS	PERIODIC
1. Inspect reinforcement, including prestressing tendons, and verify placement.	-	X
2. Inspect anchors cast in concrete.	-	X
3. Inspect anchors post-installed in hardened concrete members. a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 3.a.	X	-
4. Verify use of required design mix.	-	X
5. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-
6. Inspect concrete and shotcrete placement for proper application techniques.	X	-
7. Verify maintenance of specified curing temperature and techniques.	X	-

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. Material Verification of Cold Formed Steel Deck:		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X
b. Manufacturer's certified test reports.	-	X
2. Inspection of Welding:		
a. Cold formed steel deck		
1. Floor and roof deck welds	-	X
b. Reinforcing steel:		
1. Verification of weldability of reinforcing steel other than ASTM A706.	-	X
2. Reinforcing steel resisting flexural and axial forces in immediate and special moment frames, and boundary elements special structural walls of concrete and shear reinforcement.	X	-
3. Shear reinforcement	X	-
4. Other reinforcing steel	X	-
3. Tectum Deck Attachment to Structure:		
a. Welding	-	X
b. Bolding/anchoring	-	X

ABBREVIATION LEGEND

ABBR	DEFINITION
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BB	BOND BEAM
BL	BLOCK LINTEL
BO	BOTTOM OF
BOS	BOTTOM OF STEEL
BOTT	BOTTOM
BRG	BEARING
CD-#	CONCRETE DECK TYPE
CJ	CONTRACTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DWG	DRAWING
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
FDN	FOUNDATION
FF	FINISH FLOOR
FLR	FLOOR
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GEN	GENERAL
GR	GRADE
GYP BD	GYPSUM BOARD
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
INFO	INFORMATION
ISO	ISOLATION
JBE	JOIST BEARING ELEVATION
JG	JOIST GIRDER
JST	JOIST
JT	JOINT
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LB, LBS, #	POUNDS
Ld	DEVELOPMENT LENGTH
LF	LINEAR FOOT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL ELECTRICAL PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSL	OUTSTANDING LEG
PAF	POWER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PERP	PERPENDICULAR
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PMEJ	PREMOLDED EXPANSION JOINT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RAD	RADIUS
QTY	QUANTITY
RD-#	ROOF DECK TYPE
REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
REV	REVERSE
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SF	SQUARE FOOT
SIM	SIMILAR
SOG	SLAB ON GRADE
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUC	STRUCTURE, STRUCTURAL
T/CMU	TOP OF CMU WALL
T/BB	TOP OF BOND BEAM
T&B	TOP AND BOTTOM
TO	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOGB	TOP OF GRADE BEAM
TOM	TOP OF MASONRY
TOP	TOP OF PAVING
TOS	TOP OF STEEL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WL	WIND LOAD
W	WIDTH
WP	WORK POINT
WWF	WELDED WIRE FABRIC

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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Bancroft Project No. 23-135

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STATE OF MISSOURI
WILLIAM A CARPENTER
NUMBER PE-2022032334
PROFESSIONAL ENGINEER
6/15/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERAL NOTES

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

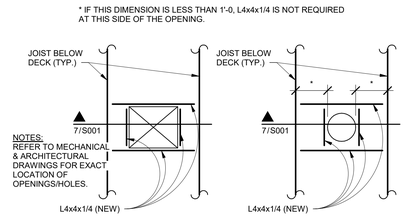
Issue Date: 05/15/2026

Checked: W.A.C.

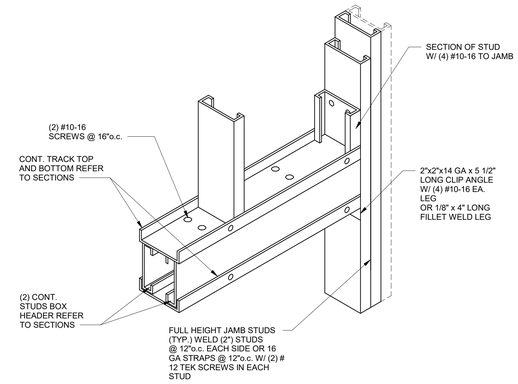
Drawn: G.E.B.

Drawing Number: S000

VA FORM 08-6231

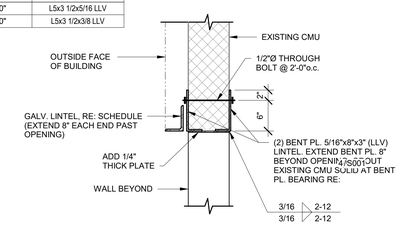


6 TYP. ROOF/FLOOR PENETRATION FRAMING PLAN
N.T.S.



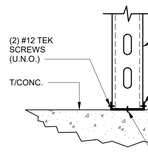
3 TYPICAL HEADER-JAMB DETAIL
N.T.S.

OPENING WIDTH (FT.)	LINTEL ANGLE
≤ 2'-0"	L4x3 1/2x5/16 LLV
2'-0" ≤ 4'-0"	L5x3 1/2x1/4 LLV
4'-0" ≤ 6'-0"	L5x3 1/2x5/16 LLV
6'-0" ≤ 7'-0"	L5x3 1/2x3/8 LLV

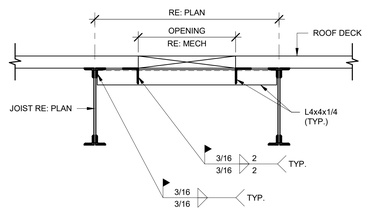


NOTES:
1. CUT SLOT INTO THE EXISTING WALL AND INSET BENT PLATE (ONE AT A TIME) INFILL GAP BETWEEN ANGLE AND MASONRY AT BEARING WITH GROUT/MORTAR.
2. INSTALL THROUGH BOLT AS SHOWN.
3. SAWCUT OPENING. (DO NOT SAW OVERRUN AT CORNER).
4. INSTALL BOTTOM PLATE AS SHOWN.

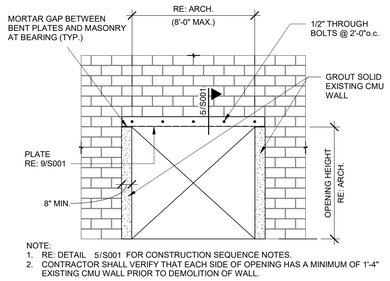
5 TYPICAL LINTEL DETAIL OVER OPENING
N.T.S.



2 TYP. METAL STUD BASE CONNECTION
N.T.S.

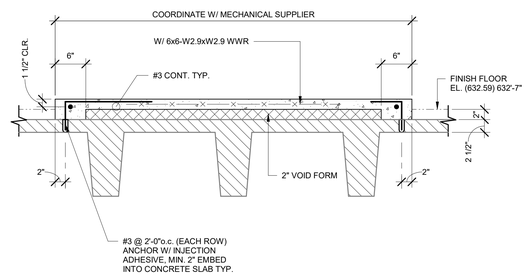


7 FRAMING AROUND THE OPENING
N.T.S.



NOTE:
1. RE: DETAIL 5/S001 FOR CONSTRUCTION SEQUENCE NOTES.
2. CONTRACTOR SHALL VERIFY THAT EACH SIDE OF OPENING HAS A MINIMUM OF 1'-4" EXISTING CMU WALL PRIOR TO DEMOLITION OF WALL.

4 LINTEL AT NEW CMU WALL OPENING
N.T.S.



1 HOUSEKEEPING PAD DETAIL
N.T.S.

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STATE OF MISSOURI
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NUMBER PE-2022032334
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TYPICAL DETAILS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
Approved: Project Director			Building Number: #1
		Location: BIRMINGHAM VAMC	Drawing Number: S001
		Issue Date: 05/15/2026 / Checked: W.A.C. / Drawn: G.E.B.	

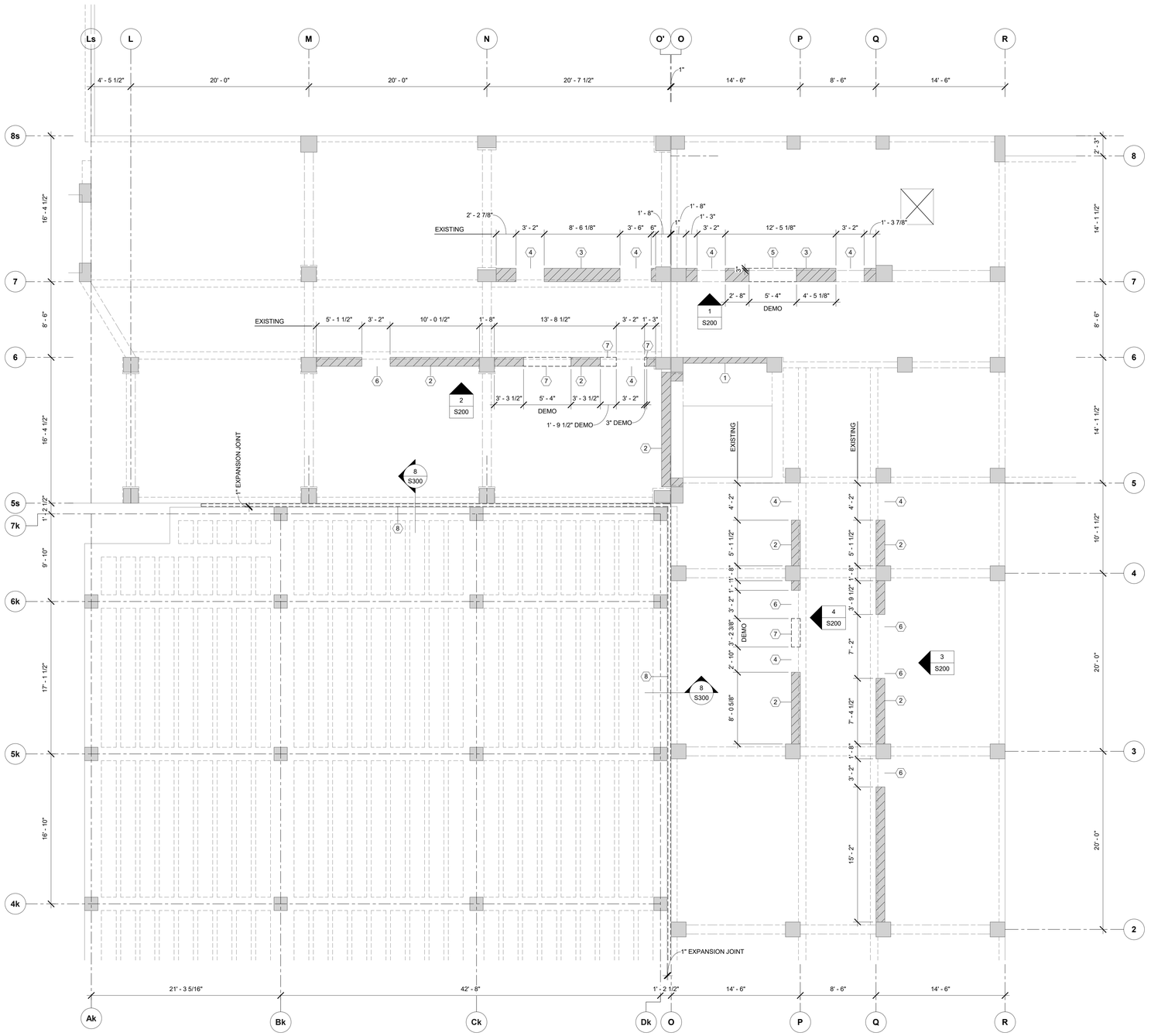
VA FORM 08-6231

STRUCTURAL PLAN NOTES

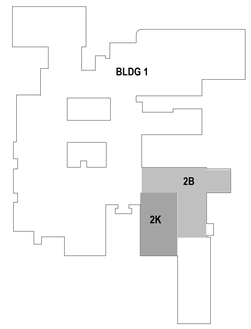
1. THESE DRAWINGS ARE BASE ON EXISTING 1949 DRAWINGS AND 1983 SHEARS WALL DRAWINGS.
2. FINISH FLOOR EL. = (632.59) 632'-7"±
   STRUCTURAL FLOOR EL. = (632.42) 632'-5"
3. CONTRACTOR SHALL VERIFY ALL SHEAR WALL OPENINGS LOCATION AND SIZE WITH ARCH.

KEY NOTES

1. EXISTING 0'-8" CIP SHEAR WALL
2. EXISTING 1'-0" CIP SHEAR WALL
3. EXISTING 1'-6" CIP SHEAR WALL
4. EXISTING DOOR OPENING TO REMAIN
5. DRILL 1/2"Ø HOLES AT EACH CORNER OF NEW OPEN THEN NEATLY SAW CUT EXISTING CONCRETE SHEAR WALL AS REQ'D FOR NEW OPENING. VERIFY WITH MANUFACTURER FOR ROUGH OPENING WIDTH AND HEIGHT. OVER CUT OPENING EACH SIDE BY 1'-0" FOR NEW CORNER REINFORCING RE: 1, 2 AND 3/S300
6. TYPICAL CONCRETE WALL INFILL RE: 4, 5, 6 AND 7/S300
7. DRILL 1/2"Ø HOLES AT EACH CORNER OF NEW OPEN THEN NEATLY SAW CUT EXISTING CONCRETE SHEAR WALL AS REQ'D FOR NEW OPENING (DO NOT OVER CUT) VERIFY WITH MANUFACTURER FOR ROUGH OPENING WIDTH AND HEIGHT.
8. EXISTING CMU AND BRICK WALL REMOVAL RE: 8/S300



1 STRUCTURAL - DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS
3/16" = 1'-0"



KEYPLAN

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO.36C24724C0036
1471 E Business Center Dr,
Mount Prospect, IL 60056
T: 847-952-9362
www.bancroft-ae.com
Bancroft Project No. 23-135

STAMP

STATE OF MISSOURI
WILLIAM A CARPENTER
NUMBER PE-2022032334
PROFESSIONAL ENGINEER
05/15/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: STRUCTURAL - DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: W.A.C.

Drawn: G.E.B.

Drawing Number: SD102

VA FORM 08-6231

STRUCTURAL PLAN NOTES

1. AS-BUILTS DRAWINGS WHERE NOT AVAILABLE TO CREATE THESE DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION OF ANY NEW MATERIAL.
3. RE: 6/S001 AND 7/S001 FOR FRAMING AROUND NEW ROOF DECK OPENINGS.

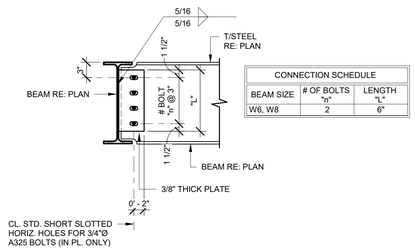
KEY NOTES

(9) EXISTING 2'-0" DEEP ANGLE JOIST WITH L1 3/4x1 3/4 TOP AND BOTTOM CHORD

(10) EXISTING EXTERIOR BRICK

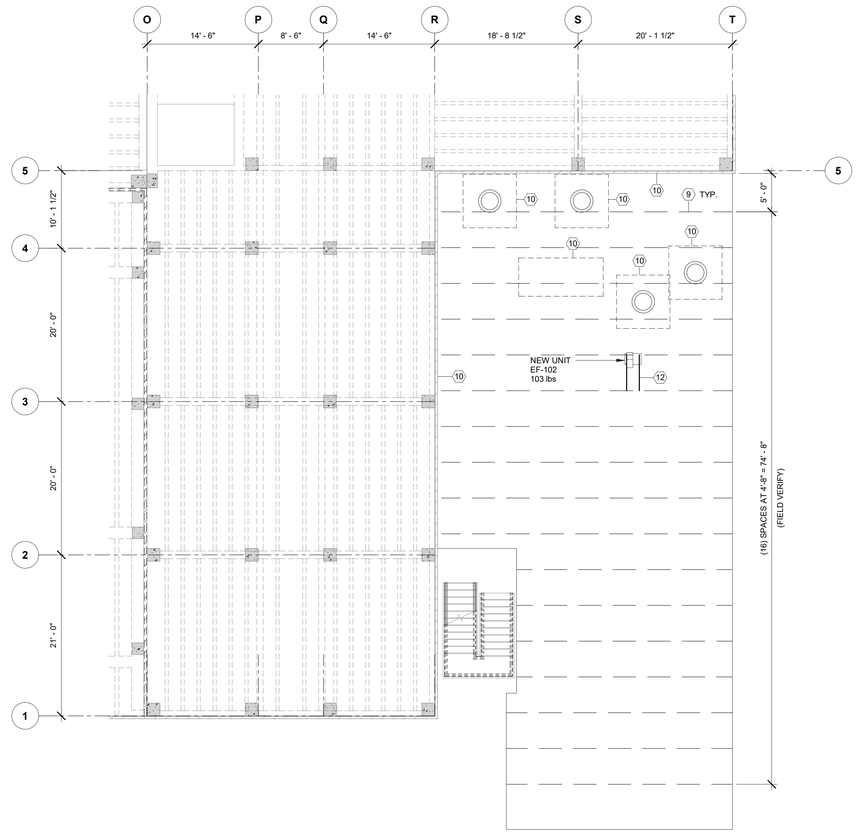
(11) EXISTING EXTERIOR BRICK

(12) INSTALL L4x4x1/4 AT PERIMETER OF NEW UNIT RE: 7/S001 FOR CONNECTION TO EXISTING JOIST.



CONNECTION SCHEDULE		
BEAM SIZE	# OF BOLTS "n"	LENGTH "L"
W6, W8	2	6"

2 TYP. BEAM TO BEAM CONNECTION
1" = 1'-0"



N 1 STRUCTURAL - PARTIAL ROOF -1B AREA
1/8" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
Revisions:	Date:

CONSULTANT

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Bancroft Project No. 23-135

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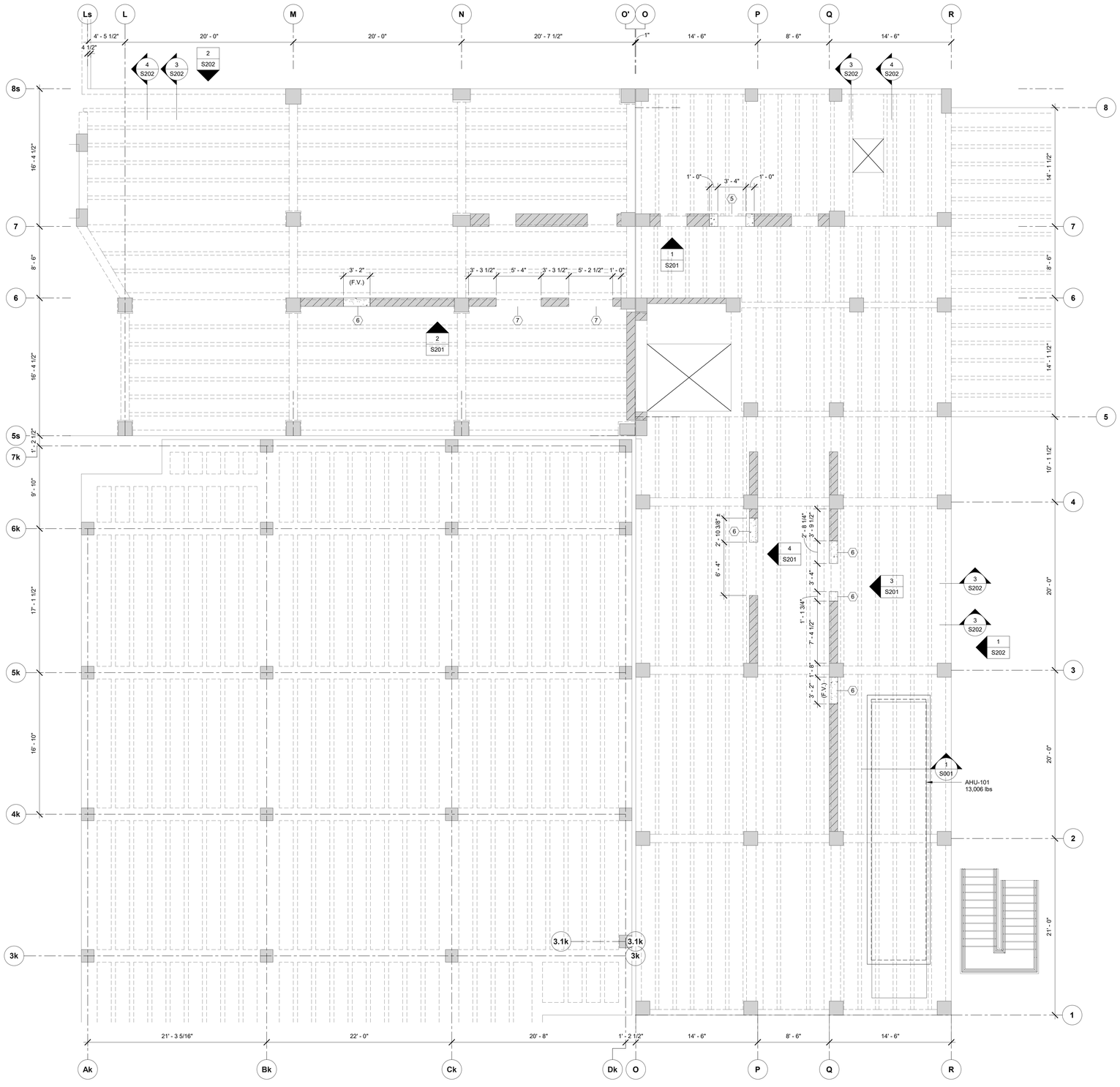
STATE OF MISSOURI
WILLIAM A CARPENTER
NUMBER PE-2022032334
PROFESSIONAL ENGINEER
05/15/2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: STRUCTURAL - PARTIAL ROOF - 1B AREA	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director		Location: BIRMINGHAM VAMC	Drawing Number: S101
		Issue Date: 05/15/2026 / Checked: W.A.C. / Drawn: G.E.B.	

VA FORM 08-6231



1 STRUCTURAL - CONSTRUCTION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

3/16" = 1'-0"

STRUCTURAL PLAN NOTES

1. THESE DRAWINGS ARE BASE ON EXISTING 1949 DRAWINGS AND 1983 SHEARS WALL DRAWINGS.
2. FINISH FLOOR EL. = (632.59) 632'-7"±
   STRUCTURAL FLOOR EL. = (632.42) 632'-5"
3. CONTRACTOR SHALL VERIFY ALL SHEAR WALL OPENINGS LOCATION AND SIZE WITH ARCH.

KEY NOTES

1. EXISTING 0'-8" CIP SHEAR WALL
2. EXISTING 1'-0" CIP SHEAR WALL
3. EXISTING 1'-6" CIP SHEAR WALL
4. EXISTING DOOR OPENING TO REMAIN
5. DRILL 1/2"Ø HOLES AT EACH CORNER OF NEW OPEN THEN NEATLY SAW CUT EXISTING CONCRETE SHEAR WALL AS REQ'D FOR NEW OPENING. VERIFY WITH MANUFACTURER FOR ROUGH OPENING WIDTH AND HEIGHT. OVER CUT OPENING EACH SIDE BY 1'-0" FOR NEW CORNER REINFORCING RE: 1, 2 AND 3/S300
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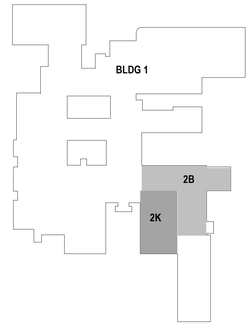
8. EXISTING CMU AND BRICK WALL REMOVAL RE: 8/S300



KEYPLAN

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
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Revisions:	Date:

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STATE OF MISSOURI · WILLIAM A CARPENTER · NUMBER PE-2022032334 · 05/15/2026 · PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: STRUCTURAL - CONSTRUCTION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

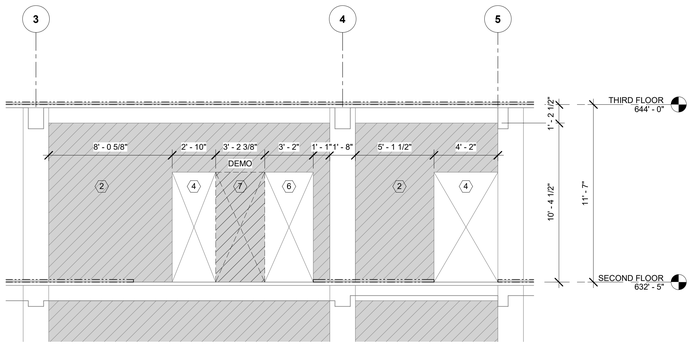
Issue Date: 05/15/2026 | Checked: W.A.C. | Drawn: G.E.B.

Project Number: 521-24-102

Building Number: #1

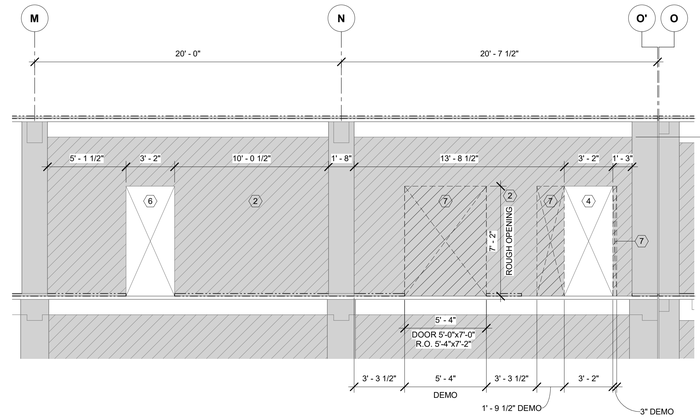
Drawing Number: S102

VA FORM 08-6231



4 DEMO ELEVATION ALONG GRID 'P' LOOKING SOUTH

1/4" = 1'-0"



2 DEMO ELEVATION ALONG GRID '6' LOOKING WEST

1/4" = 1'-0"

STRUCTURAL PLAN NOTES

1. THESE DRAWINGS ARE BASE ON EXISTING 1949 DRAWINGS AND 1983 SHEARS WALL DRAWINGS.
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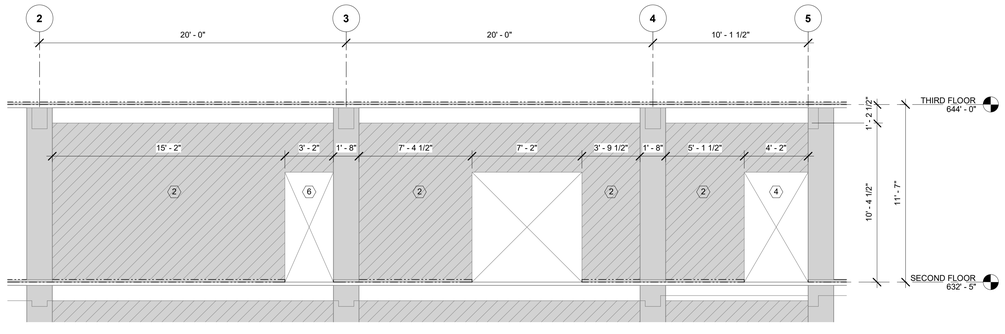
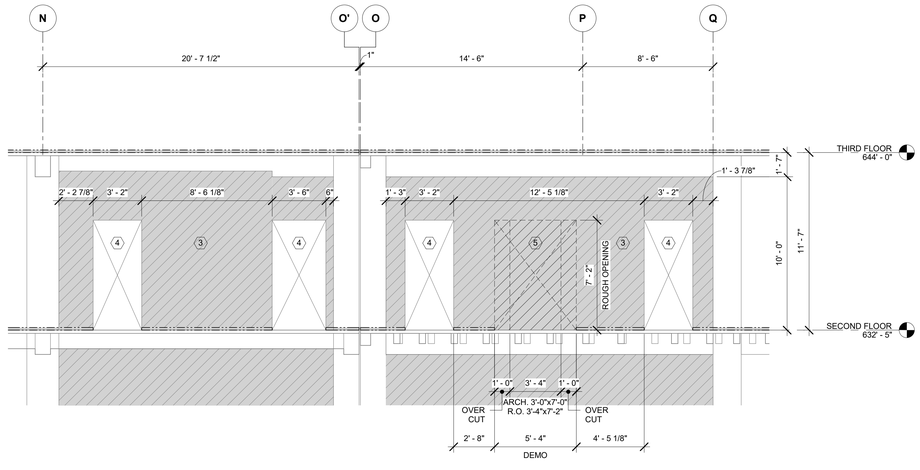
8. EXISTING CMU AND BRICK WALL REMOVAL RE: 8/S300



NO DEMO THIS ELEVATION
RE: 3/S201 FOR WALL INFILL

3 DEMO ELEVATION ALONG GRID 'Q' LOOKING SOUTH

1/4" = 1'-0"



1 DEMO ELEVATION ALONG GRID '7' LOOKING WEST

1/4" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
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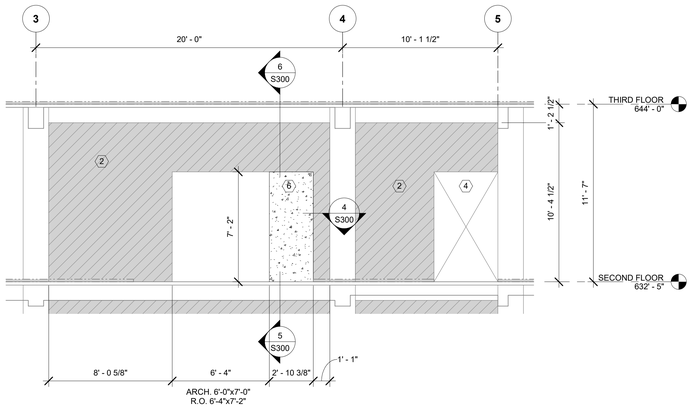
STATE OF MISSOURI · WILLIAM A CARPENTER · NUMBER PE-2022032334 · PROFESSIONAL ENGINEER · 6/15/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

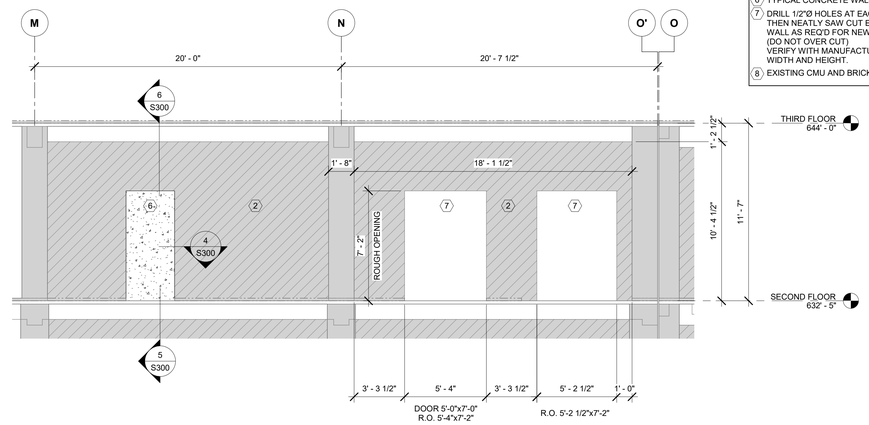
Drawing Title: DEMO ELEVATIONS OF EXISTING SHEAR WALLS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director		Location: BIRMINGHAM VAMC	Drawing Number: S200
		Issue Date: 05/15/2026 / Checked: W.A.C. / Drawn: G.E.B.	

VA FORM 08-6231



4 ELEVATION ALONG GRID 'P' LOOKING SOUTH

1/4" = 1'-0"



2 ELEVATION ALONG GRID '6' LOOKING WEST

1/4" = 1'-0"

STRUCTURAL PLAN NOTES

1. THESE DRAWINGS ARE BASE ON EXISTING 1949 DRAWINGS AND 1983 SHEARS WALL DRAWINGS.
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6. TYPICAL CONCRETE WALL INFILL RE: 4, 5, 6 AND 7/S300
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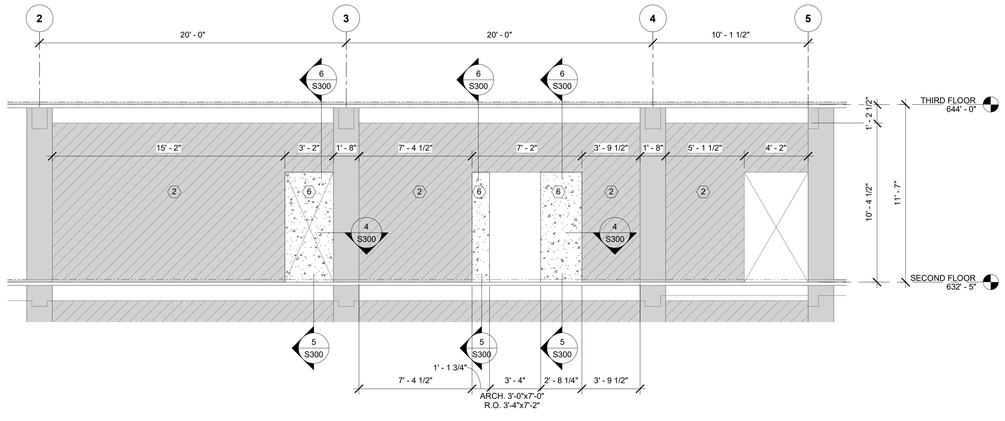
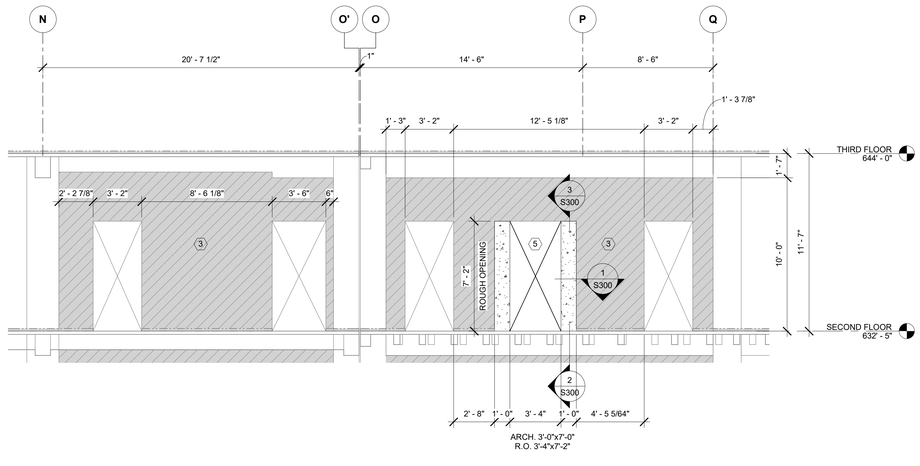
8. EXISTING CMU AND BRICK WALL REMOVAL RE: 8/S300



3 ELEVATION ALONG GRID 'Q' LOOKING SOUTH

1/4" = 1'-0"



1 ELEVATION ALONG GRID '7' LOOKING WEST

1/4" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

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Revisions:	Date:

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STATE OF MISSOURI
WILLIAM A CARPENTER
NUMBER PE-2022032334
PROFESSIONAL ENGINEER
6/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELEVATIONS OF EXISTING SHEAR WALLS

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

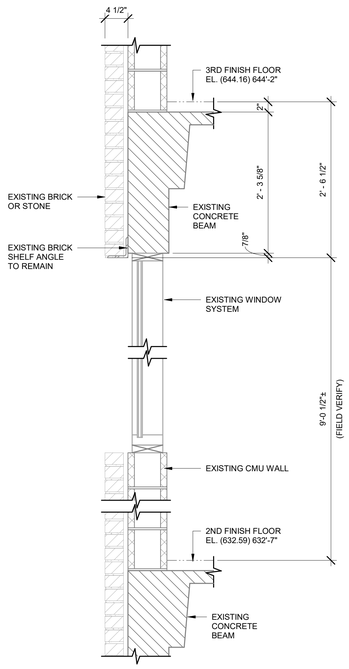
Issue Date: 05/15/2026

Checked: W.A.C.

Drawn: G.E.B.

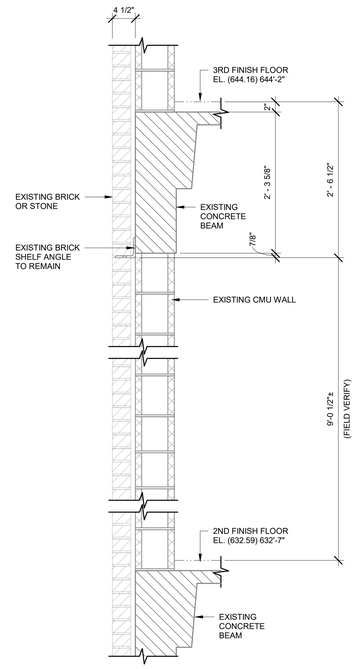
Drawing Number: S201

VA FORM 08-6231



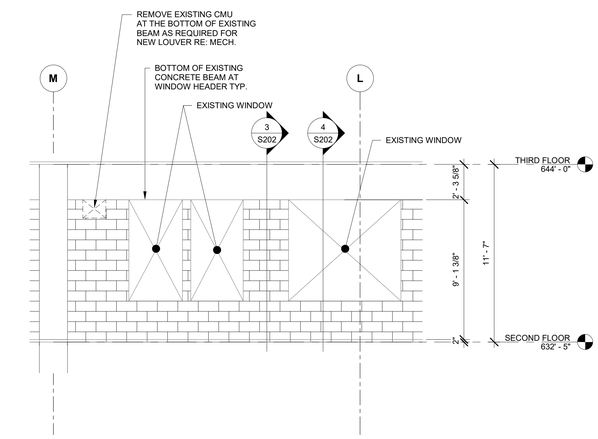
4 TYPICAL SECTION AT EXISTING EXERIOR WINDOW

1" = 1'-0"



3 TYPICAL SECTION AT EXISTING EXTERIOR WALL

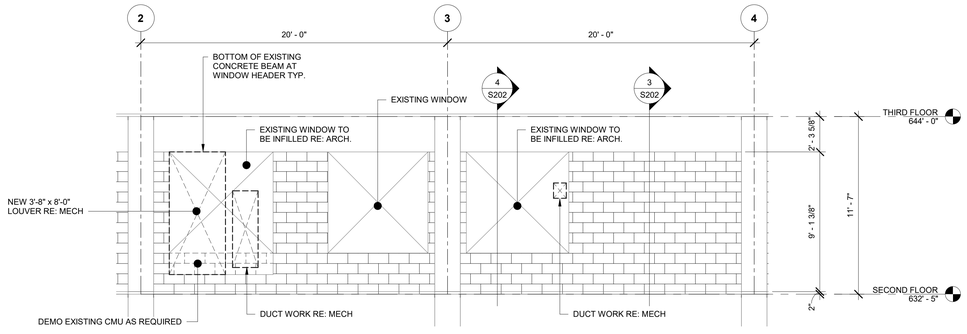
1" = 1'-0"



NOTES:
1. EXISTING EXTERIOR BRICK NOT SHOWN FOR CLARITY.
2. ALL EXPOSED STEEL SHALL BE HOT-DIP GALVANIZED FINISH RE: GENERAL NOTES.

2 PARTIAL EXTERIOR WALL ELEVATION ALONG GRID 8

1/4" = 1'-0"



NOTES:
1. EXISTING EXTERIOR BRICK NOT SHOWN FOR CLARITY.
2. ALL EXPOSED STEEL SHALL BE HOT-DIP GALVANIZED FINISH RE: GENERAL NOTES.
3. DEMO EXISTING CMU AS REQUIRED TO INSTALL NEW DUCT WORK AND LOUVER OPENING.

1 PARTIAL EXTERIOR WALL ELEVATION ALONG GRID R

1/4" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

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STATE OF MISSOURI
WILLIAM A CARPENTER
NUMBER PE-2022032334
PROFESSIONAL ENGINEER
05/15/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EXTERIOR WALL ELEVATIONS

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: W.A.C.

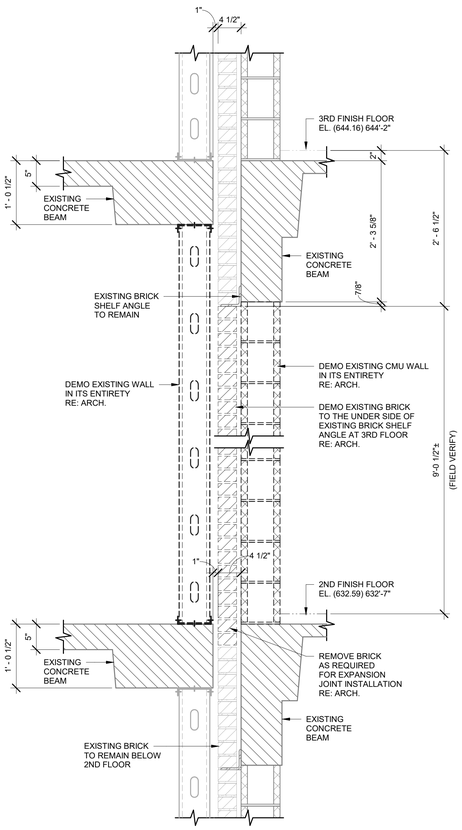
Drawn: G.E.B.

Project Number: 521-24-102

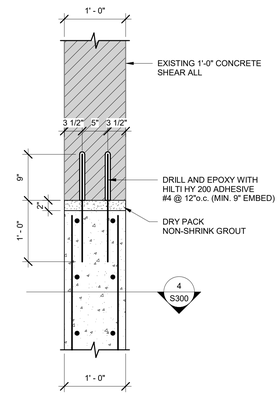
Building Number: #1

Drawing Number: S202

VA FORM 08-6231

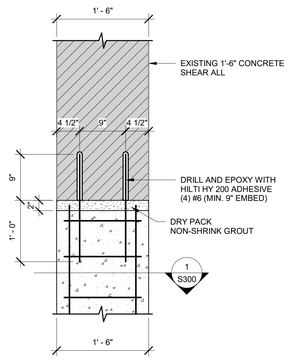


8 SECTION AT EXISTING WALL
1" = 1'-0"

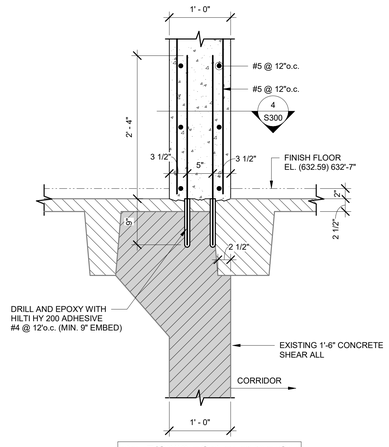


RE: 7/S300 FOR ELEVATION

6 SECTION AT WALL INFILL
1" = 1'-0"

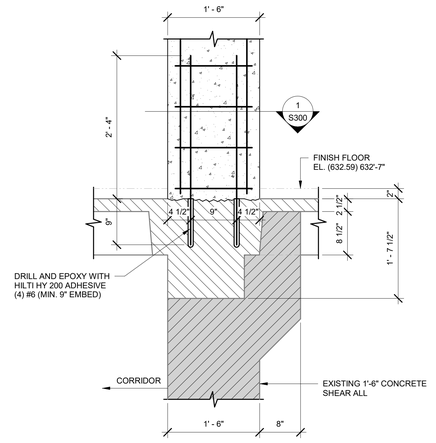


3 SECTION AT NEW DOOR OPENINGS
1" = 1'-0"

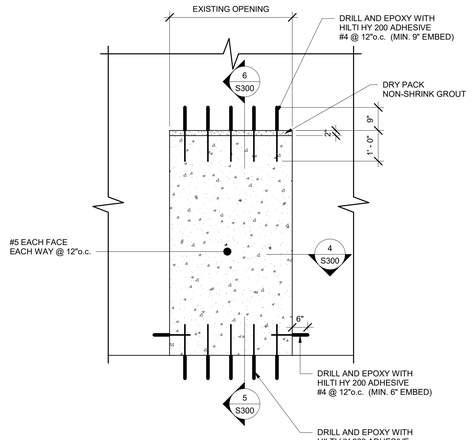


RE: 7/S300 FOR ELEVATION

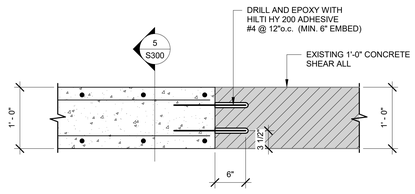
5 SECTION AT WALL INFILL
1" = 1'-0"



2 SECTION AT NEW DOOR OPENINGS
1" = 1'-0"

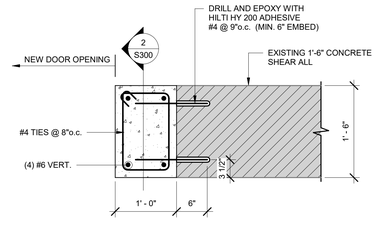


7 TYPICAL CONCRETE WALL INFILL
1/2" = 1'-0"



RE: 7/S300 FOR ELEVATION

4 SECTION AT WALL INFILL
1" = 1'-0"



1 SECTION AT NEW DOOR OPENINGS
1" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
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Revisions:	**Date:**

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VA CONTRACT NO.36C24724C0036
Bancroft Project No. 23-135

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STATE OF MISSOURI
WILLIAM A
CARPENTER
NUMBER
PE-2022032334
PROFESSIONAL ENGINEER

Office of
Construction
and Facilities
Management

VA U.S. Department of Veterans Affairs

Drawing Title
DETAILS

Approved: Project Director

Phase
ISSUED FOR BID

Project Title
RENOVATE WARDS 2K/2B FOR
OPTOMETRY/OPHTHALMOLOGY

Location
BIRMINGHAM VAMC

Project Number
521-24-102

Building Number
#1

Drawing Number
S300

Issue Date	Checked	Drawn
05/15/2026	W.A.C.	G.E.B.

VA FORM 08-6231

SYMBOLS AND MATERIAL INDICATORS

- 1 — KEYNOTE TAG DEMOLITION
- 1 — KEYNOTE TAG
- XX — PARTITION TYPE
- XXX — DOOR NUMBER
- XX — WINDOW NUMBER
- XXX — EQUIPMENT NUMBER
- 1i — SIGNAGE NUMBER
- WP-1 — FINISH MATERIAL TAG
- X — REVISION NUMBER
  - REVISION NUMBER

NOTE:
SEE CORRESPONDING NUMBERED LIST ON SHEET WHERE TAG OCCURS U.N.O.

- N — NORTH ARROW
- X / XXXX / X — INTERIOR ELEVATION
  - SHEET WHERE DRAWN
  - ELEVATION NUMBER AND DIRECTION OF VIEW
- X / XXXX — BUILDING & WALL SECTION
  - SECTION NUMBER
  - SHEET WHERE DRAWN
- X / XXXX — EXTERIOR ELEVATION
  - ELEVATION NUMBER
  - SHEET WHERE DRAWN
- X / XXXX — SECTION DETAIL
  - DETAIL NUMBER
  - SHEET WHERE DRAWN
- X / XXXX — DETAIL BUBBLE
  - DETAIL NUMBER
  - SHEET WHERE DRAWN
- Room name / XXX — ROOM TAG
  - ROOM NAME
  - ROOM NUMBER
- ELEVATION 0'-0" — ELEVATION TAG
  - HEIGHT ABOVE PROJECT DATUM
  - NAME OF LEVEL

- EARTH
- GRAVEL
- CONCRETE
- CONCRETE MASONRY UNIT
- BRICK MASONRY
- STEEL/STAINLESS STEEL
- ALUMINUM
- WOOD BLOCKING / FRAMING
- PLYWOOD
- HARDWOOD
- RIGID INSULATION
- BATT INSULATION
- MORTAR/SAND/STUCCO/GYPSUM BOARD SURFACE
- ACOUSTIC CEILING
- CERAMIC TILE
- SHIM OR NAILER

ABBREVIATIONS

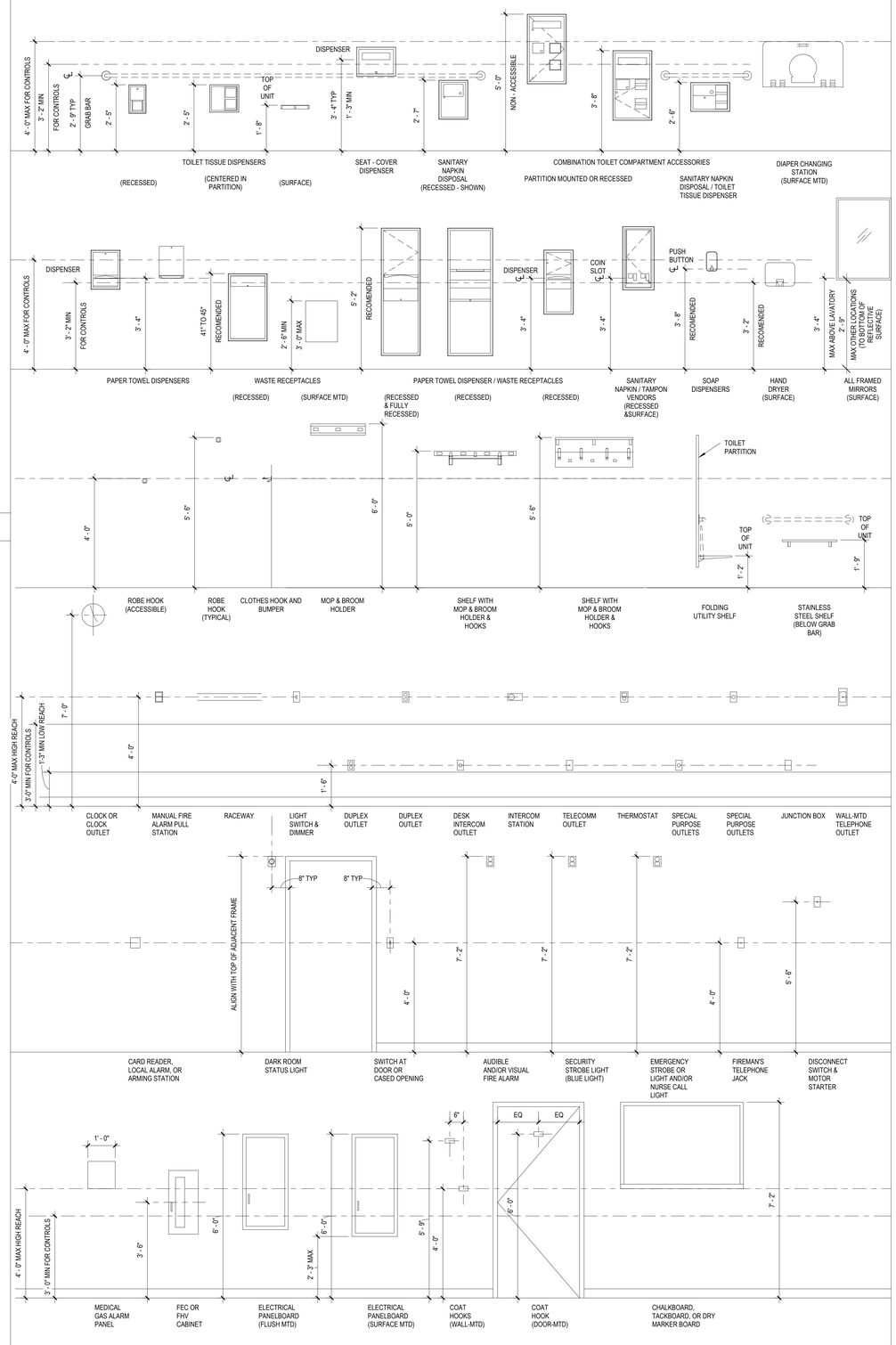
A	
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
AR	AS REQUIRED
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AVG	AVERAGE
B	
BAT	BATTEN
BD	BOARD
BLDG	BUILDING
BLK	BLOCKING
BM	BEAM
BO	BY OWNER
C	
CC	CONTRACTOR SUPPLIED & INSTALLED
CEM	CEMENT
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
CTRL	CONTROL
D	
DAT	DATUM
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DTL	DETAIL
DWG	DRAWING

E	
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
F	
FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURE AND EQUIPMENT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR
FO	FACE OF
FP	FIRE PROTECTION OR FIREPROOF
FT	FOOT
FTG	FOOTING
G	
GC	GENERAL CONTRACTOR
GL	GLASS
GYP BD	GYPSUM BOARD
H	
HAZ MAT	HAZARDOUS MATERIALS
HDW	HARWARE
HM	HOLLOW METAL
HT	HEIGHT
I	
INCL	INCLUDED
INSUL	INSULATION
INT	INTERIOR
J	
J-BOX	JUNCTION BOX
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT

L	
LAM	LAMINATE
LAV	LAVATORY
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LL	LEAD LINED
LT	LT
M	
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLWK	MILLWORK
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
N	
N	NORTH
N/A	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
O	
OA	OVERALL
OC	ON CENTER
OFIC	OWNER FURNISHED INSTALLED BY CONTRACTOR
OH	OPPOSITE HAND
OPNG	OPENING
OPT	OPTIONAL
P	
PAT	PATTERN
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER OR PLASTIC
PR	PAIR
PRE	PREFINISHED
PREP	PREPARATION
PROVIDE	FURNISHE AND INSTALL
PT	PAINT
PTME	PAINT TO MATCH EXISTING
PTN	PARTITION
PWR	POWER
Q	
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY

R	
R	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
REINF	REINFORCED
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
S	
S	SOUTH
SAN	SANITARY
SCHED	SCHEDULE
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
SUSP	SUSPEND
SV	SHEET VINYL
T	
T&G	TOUNGE AND GROOVE
TEMP	TEMPERED
TERR	TERRAZZO
THK	THICK
TO	TOP OF
TSTAT	THERMOSTAT
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VAR	VARIES
VC	VA SUPPLIED, CONTRACTOR INSTALLED
VCT	VINYL COMPOSITION TILE
VENT	VENTILATION
VIF	VERIFY IN FIELD
VOL	VOLUME
VV	VA SUPPLIED & INSTALLED
VWC	VINYL WALL COVERING
W	
W	WEST
W/	WITH
W/O	WITHOUT
WC	WALL COVERING
WD	WOOD
WDW	WINDOW
WWM	WELDED WIRE FABRIC

TYPICAL MOUNTING HEIGHTS



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35% SCHEMATIC DESIGN RESUBMITTAL	**06/30/2025**
35% SCHEMATIC DESIGN	**05/29/2024**
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LICENSED ARCHITECT — DENNIS J ARCH — 001-019888 — STATE OF ILLINOIS — Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL - ABBREVIATIONS, SYMBOLS LEGEND, AND STANDARD MOUNTING HTS

Phase
ISSUED FOR BID

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number
521-24-102

Building Number
#1

Approved: Project Director

FULLY SPRINKLERED

Location
BIRMINGHAM VAMC

Issue Date 05/15/2026 | **Checked** CR | **Drawn** LD

Drawing Number
A001

VA FORM 08-6231

DEMOLITION PLAN NOTES

A. REVIEW THIS DRAWING IN CONJUNCTION WITH CORRESPONDING CIVIL, STRUCTURAL, FIRE PROTECTION, MEDICAL GAS, LOW VOLTAGE SYSTEMS, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK.

B. REFER TO GENERAL SECTION DRAWINGS FOR GENERAL DEMOLITION NOTES.

C. REFER TO REFLECTED CEILING DEMOLITION PLAN(S) FOR DEMOLITION WORK AT CEILINGS.

D. VERIFY EXISTING CONDITIONS AND PROMPTLY REPORT ANY DRAWING DISCREPANCIES TO THE CONTRACTING OFFICER (CO) DURING BIDDING AND THE CONTRACTING OFFICERS REPRESENTATIVE (COR) DURING CONSTRUCTION.

E. ALL EXISTING CONSTRUCTION TO REMAIN, THAT IS AFFECTED BY DEMOLITION, SHALL BE PATCHED, PLASTERED, BE PROPERLY MEMBERED, WITH SURFACES ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIRS WHEN RECEIVING FINISHES.

F. DURING THE COURSE OF THE REMOVAL OF EXISTING FINISHES FROM ALL SURFACES INDICATED TO REMAIN (FLOORS, WALLS, PARTITIONS, CEILINGS, ETC.), AND THE SUBSTRATE BECOMES DAMAGED BEYOND REPAIR, REPLACE DAMAGED SECTION(S) TO THE POINT WHERE NEW FINISHES CAN BE APPLIED AND VIEWED TO BE WITHOUT DETECTION OF DAMAGED AREAS.

G. WHERE WALLS HAVE BEEN REMOVED, FILL ALL VOIDS IN THE FLOOR WITH CONCRETE AS REQUIRED TO MATCH THE EXISTING CONSTRUCTION AND MAINTAIN ALL FIRE RATINGS, PRIOR TO THE PATCHING AND LEVELING REQUIRED FOR RECEIVING NEW FLOOR FINISHES.

H. ALL DIMENSIONS INDICATED FOR LENGTHS OF WALLS/PARTITIONS, TO BE REMOVED, ARE APPROXIMATE AND SUBJECT TO ANY ADDITIONAL DEMOLITION NECESSARY TO PROPERLY SPLICE IN THE NEW WORK ASSEMBLY AND PROVIDE FOR DOOR UNIT INSTALLATIONS AS PER THE DETAILS.

I. SEAL/FIRESTOP ALL OPENINGS IN EXISTING SMOKE AND FIRE RATED WALLS/PARTITIONS AND/OR FIRE RATED FLOORS AND CEILINGS THAT ARE ENCOUNTERED DURING DEMOLITION. INCLUDES ALL EXPOSED CONDUIT AND PIPING.

J. REPLACE/RESPRAY FIREPROOFING THAT IS MISSING, DAMAGED, HAS BEEN KNOCKED OFF, OR HAS BEEN REMOVED FROM FLOORS, BEAMS, COLUMNS, METAL DECKING, ETC. DURING THE DEMOLITION.

DEMOLITION PLAN LEGEND

EXISTING PARTITION WALL TO REMAIN.

EXISTING PARTITION TO BE DEMOLISHED, REMOVE ALL WALL-MOUNTED ITEMS AS WELL AS ANY EXISTING BACKING INSIDE WALLS U.N.O.

EXISTING DOOR, FRAME AND ALL HARDWARE, ASSOCIATED WITH EXISTING DOOR, TO BE DEMOLISHED
COORDINATE WITH VA/COR IF REMOVED DOOR HARDWARE IS TO BE RETURNED TO THE VA

DEMOLITION CEILING NOTES

A. REFER TO ICRA DRAWINGS FOR LOCATION OF TEMPORARY CONSTRUCTION BARRIERS, ACCESS, AND EXITING REQUIREMENTS.

B. IN AREAS OF NEW WORK, REMOVE COMPLETELY ALL EXISTING CEILING AND SOFFIT CONSTRUCTION, UNLESS OTHERWISE INDICATED. NEW CEILINGS SHALL NOT BE ATTACHED TO EXISTING CEILING SYSTEMS. REMOVE EXISTING SUSPENSION SYSTEMS ENTIRELY, INCLUDING HANGERS AND THEIR ANCHORS BEFORE INSTALLING NEW.

C. REMOVE ALL ELECTRICAL POWER AND CONTROLS WIRING, CONDUITS, JUNCTION BOXES AND SUPPORT SYSTEMS ASSOCIATED WITH REMOVED CEILING FIXTURES, DEVICES AND EQUIPMENT. REMOVE WIRING BACK TO RESPECTIVE POWER PANELS.

D. REVIEW AND COORDINATE THIS DRAWING IN CONJUNCTION WITH CORRESPONDING FIRE PROTECTION, LOW VOLTAGE SYSTEMS, MEDICAL GAS, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK, AS WELL AS, FOR IDENTIFYING EXISTING PIPING, CONDUITS, DUCTWORK, EQUIPMENT, SYSTEMS COMPONENTS, ETC. TO REMAIN WITHIN AREAS OF DEMOLITION.

E. REFER TO GENERAL SECTION DRAWINGS FOR GENERAL DEMOLITION NOTES.

F. ANY ELECTRICAL FIXTURES, DEVICES AND EQUIPMENT THAT ARE NOT IDENTIFIED ON THESE DRAWINGS, IN THE AREAS OF CEILING DEMOLITION, ARE TO BE CAREFULLY REMOVED FROM THE CEILING, PROTECTED, TEMPORARILY HUNG, AND THEN REATTACHED IN THE SAME LOCATIONS AS WHICH THEY WERE FOUND, PRIOR TO DEMOLITION.

G. SEAL/FIRESTOP ALL OPENINGS IN EXISTING SMOKE AND FIRE RATED WALLS/PARTITIONS AND/OR FIRE RATED FLOORS AND CEILINGS THAT ARE ENCOUNTERED DURING DEMOLITION. INCLUDES ALL EXPOSED CONDUIT AND PIPING.

H. ALL EXISTING LIGHTING, DEVICES, CONDUIT, JUNCTION BOXES AND EQUIPMENT; LOW VOLTAGE DEVICES, EQUIPMENT AND SYSTEMS SUPPORT WORK; LIFE SAFETY SPEAKERS, EXIT SIGNS, DEVICES AND EQUIPMENT; MECHANICAL GRILLS, DIFFUSERS, DUCTWORK, AND EQUIPMENT; ALONG WITH THE FIRE PROTECTION SPRINKLER HEADS AND SUPPORT SYSTEM ARE TO REMAIN IN EXISTING LOCATIONS AND PROTECTED, UNLESS OTHERWISE NOTED.

I. WHERE SLECTIVE DEMOLITIONS OCCURS, CONTRACTOR TO CAREFULLY REMOVE SECTIONS OF EXISTING CEILING TILE AND SUPPORTING GRID WORK TO ALLOW FOR THE INSTALLATION OF ALL REQUIRED CONDUIT AND ELECTRICAL EQUIPMENT PER ELECTRICAL DRAWINGS (E, EP, ELD AND EL). CONTRACTOR SHALL REINSTALL CEILING IN EXACT LOCATION. CONTRACTOR TO REPLACE ANY CEILING TILES, GRID AND SYSTEM SUPPORT WORK DAMAGED DURING CONSTRUCTION TO MATCH EXISTING. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

DEMOLITION CEILING LEGEND

NOTE: SYMBOLS FOR REFERENCE ONLY, ACTUAL SYMBOL SCALE AT DRAWINGS MIGHT VARY

- EXISTING SUSPENDED ACOUSTICAL CEILING TILE TO BE REMOVED
- EXISTING GYPSUM BOARD CEILING TO BE REMOVED
- EXISTING WIRELESS ACCESS POINT TO BE REMOVED (WAP)
- EXISTING 2'X4' LIGHT FIXTURE TO BE REMOVED
- EXISTING 2'X2' LIGHT FIXTURE TO BE REMOVED
- EXISTING PENDANT LIGHT FIXTURE TO BE REMOVED
- EXISTING SPRINKLER HEAD TO BE REMOVED
- EXISTING SUPPLY DIFFUSER TO BE REMOVED
- EXISTING RETURN DIFFUSER TO BE REMOVED
- EXISTING EXHAUST VENT TO BE REMOVED
- EXISTING SMOKE DETECTOR TO BE REMOVED (SD)
- EXISTING CEILING MOUNTED LIGHT FIXTURE TO BE REMOVED
- EXISTING CEILING TILE TO REMAIN

CONSTRUCTION PLAN NOTES

A. REVIEW THIS DRAWING IN CONJUNCTION WITH CORRESPONDING FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK.

B. ALL DIMENSIONS ARE TO THE FINISH FACE OF PARTITIONS UNLESS OTHERWISE NOTED.

C. ALL NEW CONSTRUCTION WHICH ENGAGES EXISTING SHALL BE JOINED IN A CAREFUL MANNER BEING PROPERLY ALIGNED AND MEMBERED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIR. PATCH TO MATCH ALL EXISTING WALLS, FLOORS, AND CEILINGS AFFECTED BY NEW CONSTRUCTION.

D. CONTRACTOR SHALL REPAIR AND PATCH ALL EXISTING WALL CONSTRUCTION WHERE CRACKS, DENTS, HOLES OR OTHER IMPERFECTIONS HAVE OCCURRED AND PREPARE SMOOTH SURFACE FOR NEW FINISH. ANY DAMAGE TO SUCH AREAS SHALL BE RESTORED TO A "LIKE-NEW" CONDITION AS NOTED PRIOR TO THE OWNER'S ACCEPTANCE OF THE WORK.

E. PROVIDE SILICONE SEALANT JOINTS AT JUNCTION OF ALL PLUMBING FIXTURES & COUNTERTOPS TO A WALL SURFACE.

F. DO NOT SCALE DRAWINGS. USE THE GIVEN DIMENSIONS. COORDINATE ALL SHOP DRAWING REQUIREMENTS.

G. LEVEL ENTIRE FLOOR WITH CEMENT UNDERLAYMENT IN AREAS TO RECEIVE FLOORING.

H. ALL CUTTING, CORING AND DRILLING OF EXISTING CONCRETE MEMBERS SHALL NOT DAMAGE EXIST. REINFORCING STEEL. PRIOR TO CORING VERIFY SIZE AND LOCATION WITH THE COR AND OBTAIN A SUCCESSFUL REVIEW FROM THE STRUCTURAL ENGINEER.

I. PROJECT LIMIT LINES ARE SHOWN FOR ORIENTATION ONLY AND SHOULD NOT BE CONSTRUED TO BE COMPLETE. REFER TO OTHER DRAWINGS FOR UTILITY DEMOLITION AND NEW CONNECTIONS, ETC.

J. INSTALL ALL DOORS WITH MINIMUM 18 INCHES CLEAR FROM INSIDE FACE OF LATCH SIDE OF JAMB TO FINISH FACE OF WALL ON PULL SIDE OF DOOR.

K. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO ADEQUATELY PROTECT EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE DURING DEMOLITION AND CONSTRUCTION PHASES OF THE WORK. ALL FINISHED AREAS ADJACENT TO AND INCLUDED IN THE AREAS OF CONSTRUCTION SHALL BE PROTECTED FROM DUST AND DIRT THROUGH THE USE OF COR APPROVED DUSTPROOF PROTECTION.

L. EACH CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ALL CONCEALED WORK THAT DIFFERS FROM THE CONTRACT DRAWINGS SO THAT ACCURATE RECORD DRAWINGS/ AS BUILTS CAN BE KEPT BY THE GENERAL CONTRACTOR AND PROVIDED TO THE COR FOR DISTRIBUTION TO THE VA AND THE ARCHITECT AT THE COMPLETION OF THE PROJECT.

M. ALL PARTITION FACES THAT FACE THE CORRIDOR ARE TO HAVE "MOLD TOUGH GYP" OR EQUAL TO 4' A.F.F.

N. REFERENCE ELECTRICAL & PLUMBING DRAWINGS IN ADDITION TO THE ARCHITECTURAL DRAWINGS IN DEFINING THE SCOPE OF WORK. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

CONSTRUCTION CEILING NOTES

A. REVIEW THIS DRAWING IN CONJUNCTION WITH CORRESPONDING FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK. COORDINATE INSTALLATION OF DISCIPLINES SO THERE IS NO INTERFERENCE.

B. CENTER ALL CEILING GRIDS IN EACH ROOM U.N.O.

C. CENTER ALL FIXTURES WITHIN CEILING TILE U.N.O.

D. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL CEILING ACCESS POINTS WHICH MAY BE REQUIRED AT AREAS FOR MECHANICAL AND ELECTRICAL SERVICE WORK.

E. GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL CEILING MOUNTED ITEMS AS NOT TO INTERFERE WITH THE INSTALLATION OF ALL OTHER CEILING MOUNTED UTILITIES.

GENERAL CEILING LEGEND

NOTE: SYMBOLS FOR REFERENCE ONLY, ACTUAL SYMBOL SCALE AT DRAWINGS MIGHT VARY

- NEW SUSPENDED ACOUSTICAL CEILING TILE
- NEW GYPSUM BOARD CEILING
- NEW WIRELESS ACCESS POINT (WAP)
- NEW 2'X4' LIGHT FIXTURE
- NEW 2'X2' LIGHT FIXTURE
- NEW PENDANT LIGHT FIXTURE
- NEW CEILING MOUNTED LIGHT FIXTURE
- NEW SPRINKLER HEAD
- NEW SUPPLY DIFFUSER
- NEW RETURN DIFFUSER
- NEW EXHAUST VENT
- NEW FIRE ALARM DEVICES REFER TO ELECTRICAL DRAWINGS (F)
- NEW SPEAKER (SP)
- NEW SECURITY CAMERA

FINISH PLAN NOTES

A. FOLLOW MANUFACTURER'S REQUIREMENTS FOR SUB-FLOOR PREPARATION.

B. LEVEL ALL FLOORS AS NECESSARY BASED ON SUB-FLOOR CONDITION AND NEW FLOOR FINISH MANUFACTURER'S SPECIFICATIONS.

C. REFER TO **SHEET SERIES "AF"** FOR ROOM FINISH SCHEDULE AND LEGEND.

D. "CG" DENOTES CORNER GUARD LOCATION. "EG" DENOTES END GUARD LOCATION. REFER TO DETAILS AT **SHEET SERIES "AF".**

E. ALL FINISHES TO BE CONFIRMED BY THE VA INTERIOR DESIGNER.

F. CONTRACTOR SHALL REPAIR AND PATCH ALL EXISTING WALL CONSTRUCTION WHERE CRACKS, DENTS, HOLES OR OTHER IMPERFECTIONS HAVE OCCURRED. PREPARE SMOOTH SURFACE FOR NEW FINISH.

FINISHES ABBREVIATIONS

NOTE: ABBREVIATIONS BELOW ARE PER VA FINISH STANDARDS AND MAY DIFFER FROM THE ARCHITECTURAL ABREVIATIONS SHOWN ON A001.

- AT ACOUSTICAL CEILING TILE
- CP CARPET
- CPT CARPET TILE
- CT CERAMIC TILE
- EFTR EXISTING FINISH TO REMAIN
- EPY EPOXY FLOORING
- EXP EXPOSED
- GWB GYPSUM WALLBOARD SYSTEMS
- LN LINOLEUM
- LVT LUXURY VINYL TILE
- MAT CARPET MAT(WALK-OFF MAT)
- P PAINT
- PRB PROFILE BASE
- PT PORCELAIN TILE
- QT QUARRY TILE
- RAF RESILIENT ATHLETIC FLOORING
- RB RESILIENT BASE (RUBBER OR VINYL WITH FACTORY FORMED INSIDE AND OUTSIDE CORNERS)
- RES RESINOUS FLOORING
- RES-W RESINOUS/EPOXY WALL/CEILING
- RF RUBBER FLOORING
- RRF RASIED RUBBER FLOORING
- RSF RESILIENT SHEET FLOORING (CHEMICALLY WELDED SEAMS)
- S SOLID SURFACE
- SC HIGH BUILD GLAZED COATING (SPECIAL COATING)
- SD STATIC DISSIPATIVE
- SP SPECIAL FACED
- SS STAINLESS STEEL
- ST STONE(CAST)
- SVT SOLID VINYL FLOOR TILE
- TER TERRAZZO, POURED
- TT TERRAZZO TILE(PLASTIC MATRIX)
- WC WALL COVERING
- VCT VINYL COMPOSITE TILE
- WD WOOD
- WSF WELDED SEAM SHEET FLOORING (HEAT WELDED WITH ROD)

FINISH PLAN LEGEND

NOTE: SEE FINISH LEGEND AT CORRESPONDING FINISH PLAN SHEETS AND INTERIOR ELEVATION SHEETS.

WAYFINDING PLAN NOTES

A. ALL SIGNAGE TO COMPLY WITH VA SIGNAGE DESIGN MANUAL.

B. FINAL SIGNAGE TYPE, DESIGN, CONTENT AND LOCATION TO BE APPROVED BY THE VA INTERIOR DESIGNER.

C. CONTRACTOR TO REPLACE EXISTING DOOR SIGNAGE WITH NEW TO COMPLY WITH LATEST VA DESIGN STANDARDS.

D. VA TO PROVIDE STATION COLORS TO CONTRACTOR AND REVIEW ALL SIGNAGE PRIOR TO FABRICATION.

E. FOR SIGNAGE TYPES, DETAILS AND SCHEDULES, REFER TO **SHEET SERIES "AW".**

F. SEE A001 FOR SIGNAGE TAG SYMBOL LEGEND.

G. ROOM NUMBERS SHOWN ON PLAN ARE FOR REFERENCE ONLY. FINAL NUMBERS WILL BE PROVIDED DURING SUBMITTAL PROCESS.

H. HEIGHT AND SIZE OF DIMENSIONAL LETTERS TO MATCH BUILDING STANDARD AND TO BE CONFIRMED DURING SUBMITTAL PROCESS.

EQUIPMENT AND FFE PLAN NOTES

A. ABBREVIATIONS FOR THE EQUIPMENT LEGEND ARE AS FOLLOWS:

- AI ACQUISITION / INSTALLATION
- CC CONTRACTOR FURNISHED CONTRACTOR INSTALLED
- VV GOVERNMENT FURNISHED GOVERNMENT INSTALLED
- VC GOVERNMENT FURNISHED CONTRACTOR INSTALLED
- JSN JOINT SCHEDULE NUMBER

A. JSN'S CORRESPOND TO THE VA EQUIPMENT GUIDE LIST. JSN'S STARTING WITH 'U' DENOTES EQUIPMENT WHERE A JSN WAS NOT FOUND IN THE VA EQUIPMENT GUIDE LIST.

B. FINAL QUANTITIES ARE TO BE APPROVED BY THE VA.

C. PROVIDE SHEET METAL PLATE BLOCKING, 8" HIGH X 16GA FOR ALL WALL HUNG EQUIPMENT AND MILLWORK.

D. REFER TO **"Q" SHEET SERIES** FOR EQUIPMENT SCHEDULES.

E. SEE **A001** FOR SYMBOLS AND ABBREVIATIONS.

INTERIOR ELEVATIONS PLAN NOTES

A. REFER TO **"Q" SHEET SERIES** FOR FULL EQUIPMENT SCHEDULE.

B. REFER TO **"AW" SHEET SERIES** FOR FULL SIGNAGE SCHEDULE.

C. COORDINATE WALL BLOCKING LOCATIONS WITH VA/COR.

D. REFER TO **A001** FOR TYPICAL MOUNTING HEIGHTS.

E. WHERE APPLICABLE, STRUCTURAL ELEMENTS ARE SHOWN FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR SCOPE OF WORK.

GRAPHIC LEGEND ALL SHEETS

MATCHLINE, SEE GI101.1 FOR ENLARGED FLOOR PLAN ZONES

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
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35% SCHEMATIC DESIGN RESUBMITTAL	**06/30/2025**
35% SCHEMATIC DESIGN	**05/29/2024**
Revisions:	**Date:**

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VA CONTRACT NO. 36C24724C0036 Bancroft Project No. 23-135

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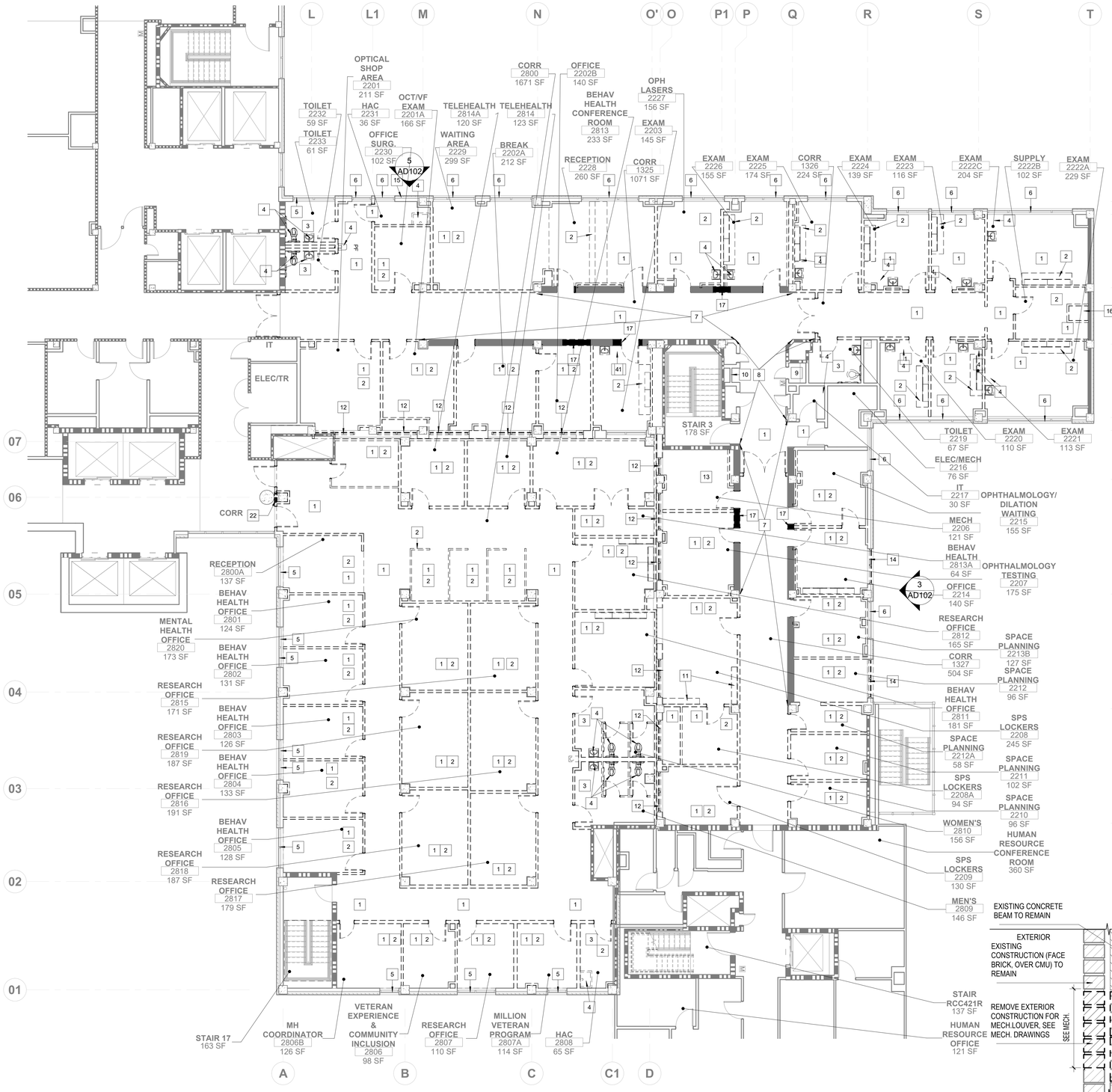
LICENSED ARCHITECT DENNIS J KRA 001.010869 5/15/26 STATE OF ILLINOIS EXP. 11/30/26

Office of Construction and Facilities Management

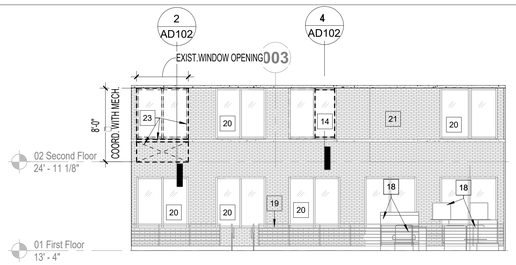
U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - TYPICAL SHEET NOTES AND LEGENDS
Approved: Project Director	
Phase	ISSUED FOR BID
	FULLY SPRINKLERED
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Location	BIRMINGHAM VAMC
Issue Date	05/15/2026
Checked	CR
Drawn	LD
Project Number	521-24-102
Building Number	#1
Drawing Number	A002

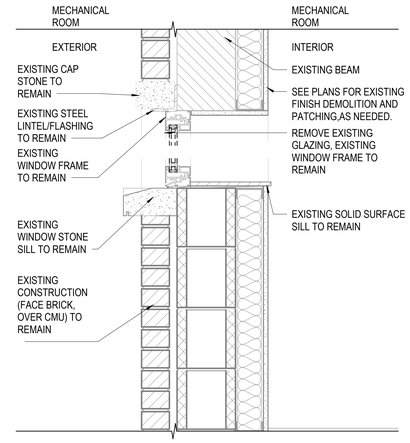
VA FORM 08-6231



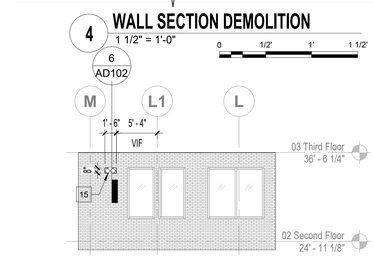
1 **DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS**
1/8" = 1'-0"



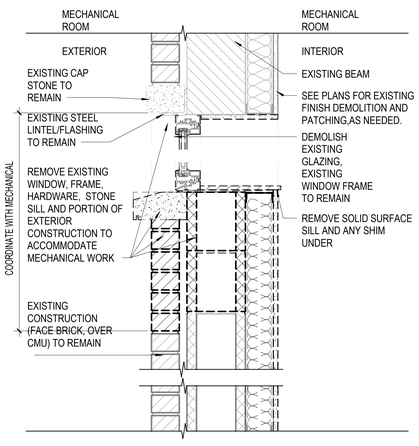
3 **BUILDING ELEVATION DEMOLITION**
1/8" = 1'-0"

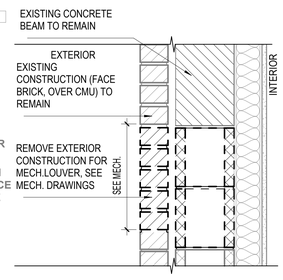


4 **WALL SECTION DEMOLITION**
1 1/2" = 1'-0"



5 **BUILDING ELEVATION LOUVER DEMOLITION**
1/8" = 1'-0"





6 **WALL SECTION DEMOLITION**
1 1/2" = 1'-0"

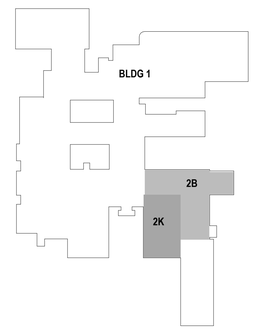
2 **WALL SECTION DEMOLITION**
1 1/2" = 1'-0"

GENERAL SHEET NOTES

1. ALL DOORS SHOWN TO BE DEMOLISHED ON THE DRAWINGS TO HAVE DOOR FRAME AND HARDWARE REMOVED. DOOR HARDWARE TO BE RETURNED TO THE VA.
2. ALL EXTERIOR WINDOW FRAMES AND GLAZING, ALONG WITH INTERIOR SOLID SURFACE SILLS, TO REMAIN. PROTECT DURING CONSTRUCTION.
3. ALL EXISTING SHEAR WALLS TO REMAIN U.N.O. ON STRUCTURAL DRAWINGS.
4. ALL PERIMETER INTERIOR PLASTER WALLS, LOCATED AT EXTERIOR CONSTRUCTION TO REMAIN U.N.O. COORDINATE WITH NEW WORK FOR DETAILS.
5. COORDINATE PHASING AND SEQUENCE OF WORK SHOWN ON SHEET GI102 WITH VA.

KEYNOTES

1	REMOVE EXISTING VINYL FLOORING AND RUBBER WALL BASE IN ITS ENTIRETY. LEVEL EXISTING SUBFLOOR, AS REQUIRED. PREP FLOOR PER MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF NEW FINISHES.
2	REMOVE EXISTING CASEWORK AND ASSOCIATED COMPONENTS, AND ANY EXISTING FFE SYSTEM/S IN ITS ENTIRETY.
3	REMOVE EXISTING TILE AT FLOOR AND WALLS. PREP EXISTING SURFACES, AS NEEDED, TO RECEIVE SCHEDULED FINISHES.
4	REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED CARRIERS IN THEIR ENTIRETY. SEE PLUMBING DRAWINGS FOR EXTENT OF PIPING AND ACCESSORY DEMOLITION.
5	REMOVE EXISTING WINDOW SHADE. EXISTING WINDOW INTERIOR SILL TO REMAIN.
6	EXISTING WINDOW, FRAME, GLAZING, INTEGRAL METAL BLINDS AND ALL ASSOCIATED HARDWARE TO REMAIN. EXISTING SOLID SURFACE SILL TO REMAIN, PATCH AND REFINISH EXISTING SOLID SURFACE SILLS AT ALL DAMAGED LOCATIONS.
7	EXISTING SHEAR WALL AND PLASTER FINISH TO REMAIN, REMOVE EXISTING RUBBER WALL BASE, AND ALL WALL-MOUNTED ITEMS, PATCH AND PREPARE EXISTING SURFACES TO RECEIVE SCHEDULED FINISHES.
8	EXISTING WALL AND PLASTER FINISH TO REMAIN, REMOVE EXISTING RUBBER WALL BASE, AND ALL WALL-MOUNTED ITEMS, PATCH AND PREPARE EXISTING SURFACES TO RECEIVE SCHEDULED FINISHES.
9	EXISTING COUNTER AND INTERIOR WALL FINISH, WALL BASE TO REMAIN.
10	EXISTING SELF-CONTAINED ELECTRIC WATER COOLER TO REMAIN.
11	REMOVE EXISTING LOCKERS.
12	REMOVE EXISTING WINDOW, FRAME, HARDWARE, SILL, WINDOW TREATMENTS, AND PORTION OF EXISTING WALL TO ACCOMMODATE NEW WORK. COORDINATE WORK WITH ALL DRAWINGS.
13	REMOVE ALL MEP EQUIPMENT AND PREP FLOOR, WALLS AND CEILING TO RECEIVE FINISHES AS SCHEDULED. SEE MEP DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
14	REMOVE EXISTING WINDOW GLAZING ONLY.EXISTING FRAME AND HARDWARE TO REMAIN.VIF DIMENSIONS FOR NEW INSULATED METAL SPANDREL PANEL, SEE NEW WORK.
15	REMOVE EXISTING PORTION OF EXTERIOR WALL CONSTRUCTION TO ACCOMMODATE OPENING FOR EXHAUST FAN LOUVER. SEE M/E AND STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK. COORDINATE WORK NEW SCOPE AT 2/AE102.1
16	SELECTIVE DEMOLITION OF DUCT-SEE MECHANICAL DRAWINGS, DEMOLISH PART OF GWB CEILING AND PATCH AND PAINT TO MATCH EXISTING WHEN MECH.WORK IS COMPLETE.
17	REMOVE PORTION OF EXISTING SHEAR WALL, SEE STRUCTURAL DRAWINGS.
18	EXISTING MECH.EQ. TO REMAIN.
19	EXISTING RAILING TO REMAIN.
20	EXISTING WINDOW TO REMAIN.
21	EXISTING BLOCKED WINDOW TO REMAIN.
22	EXISTING METAL LETTER SIGNAGE "2K" ABOVE DOOR HEAD FRAME TO BE REMOVED. SALVAGE FOR REUSE.
23	REMOVE EXISTING WINDOW, FRAME, HARDWARE, WINDOW STONE SILL, AND PART OF EXTERIOR CONSTRUCTION TO ACCOMMODATE MECHANICAL WORK. SEE MECHANICAL DRAWINGS.



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
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Revisions:	Date:

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LICENSED ARCHITECT DENNIS J INDA 001-011692 STATE OF ILLINOIS
Exp. 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

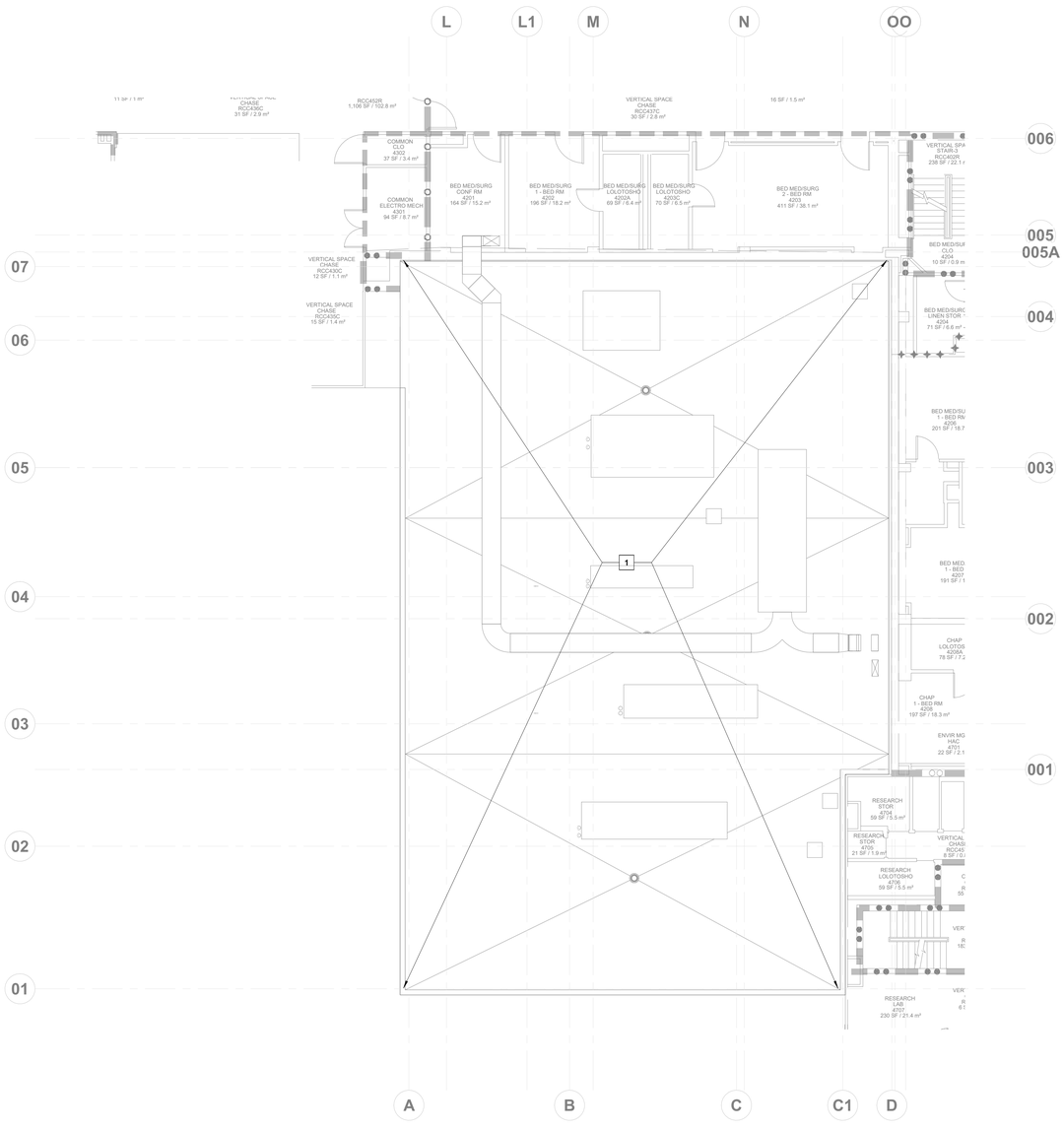
Issue Date: 05/15/2026

Checked: CR

Drawn: LD

Drawing Number: AD102

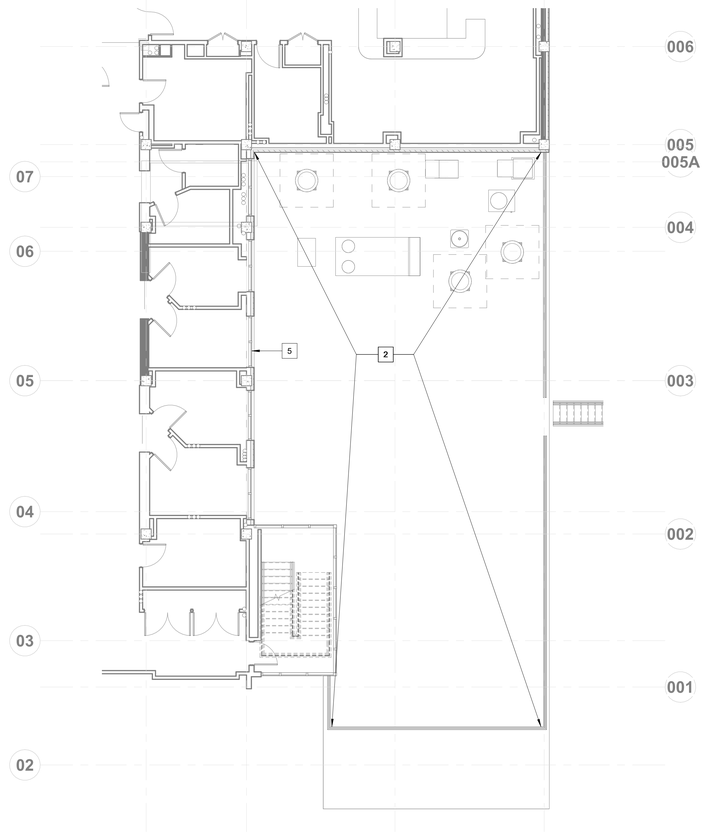
VA FORM 08-6231



N 2 **DEMOLITION FLOOR PLAN - PARTIAL ROOF - 4K AREA**

1/8" = 1'-0"

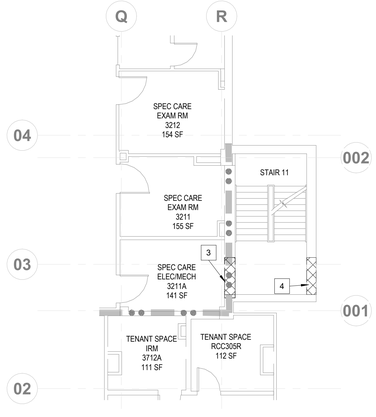
0 4' 8' 16'



N 1 **DEMOLITION FLOOR PLAN - PARTIAL ROOF - 1B AREA**

1/8" = 1'-0"

0 4' 8' 16'



N 3 **DEMOLITION PLAN - PARTIAL THIRD FLOOR - 3B AREA**

1/8" = 1'-0"

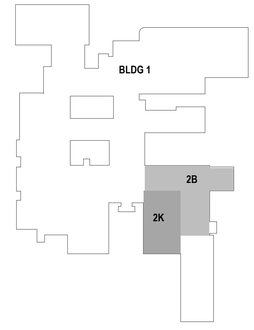
0 4' 8' 16'

GENERAL SHEET NOTES

1. PATCH, SEAL AND FLASH ALL PENETRATIONS IN EXISTING ROOFING SYSTEM MADE DURING CONSTRUCTION SO THAT TO MAINTAIN EXISTING ROOFING SYSTEM WARRANTY .
2. COORDINATE SCOPE OF WORK WITH MEP DRAWINGS.

KEYNOTES

1	EXISTING MEP EQUIPEMNT TO REMAIN. MEP SCOPE OF WORK AT EXISTING EQUIPMENT. COORDINATE WITH MEP DRAWINGS.
2	SEE MEP DRAWINGS FOR SELECTIVE DEMOLITION IN THIS AREA.
3	SELECTIVE DEMOLITION ON THIRD FLOOR. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE.
4	SELECTIVE DEMOLITION ON THIRD FLOOR. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE. REMOVE EXISTING LOUVER.
5	SEE SECOND FLOOR DEMOLITION PLAN FOR EXTERIOR CONSTRUCTION WORK, ACCOMMODATING NEW DUCT WORK.



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
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Revisions:	Date:

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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J RIPKA 001-011592 STATE OF ILLINOIS 11/30/26 Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - DEMOLITION PLAN - PARTIAL ROOF - 4K, 1B AREAS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
Approved: Project Director			Building Number: #1
	FULLY SPRINKLERED	Location: BIRMINGHAM VAMC	Drawing Number: AD103
		Issue Date: 05/15/2026 / Checked: CR / Drawn: LD	

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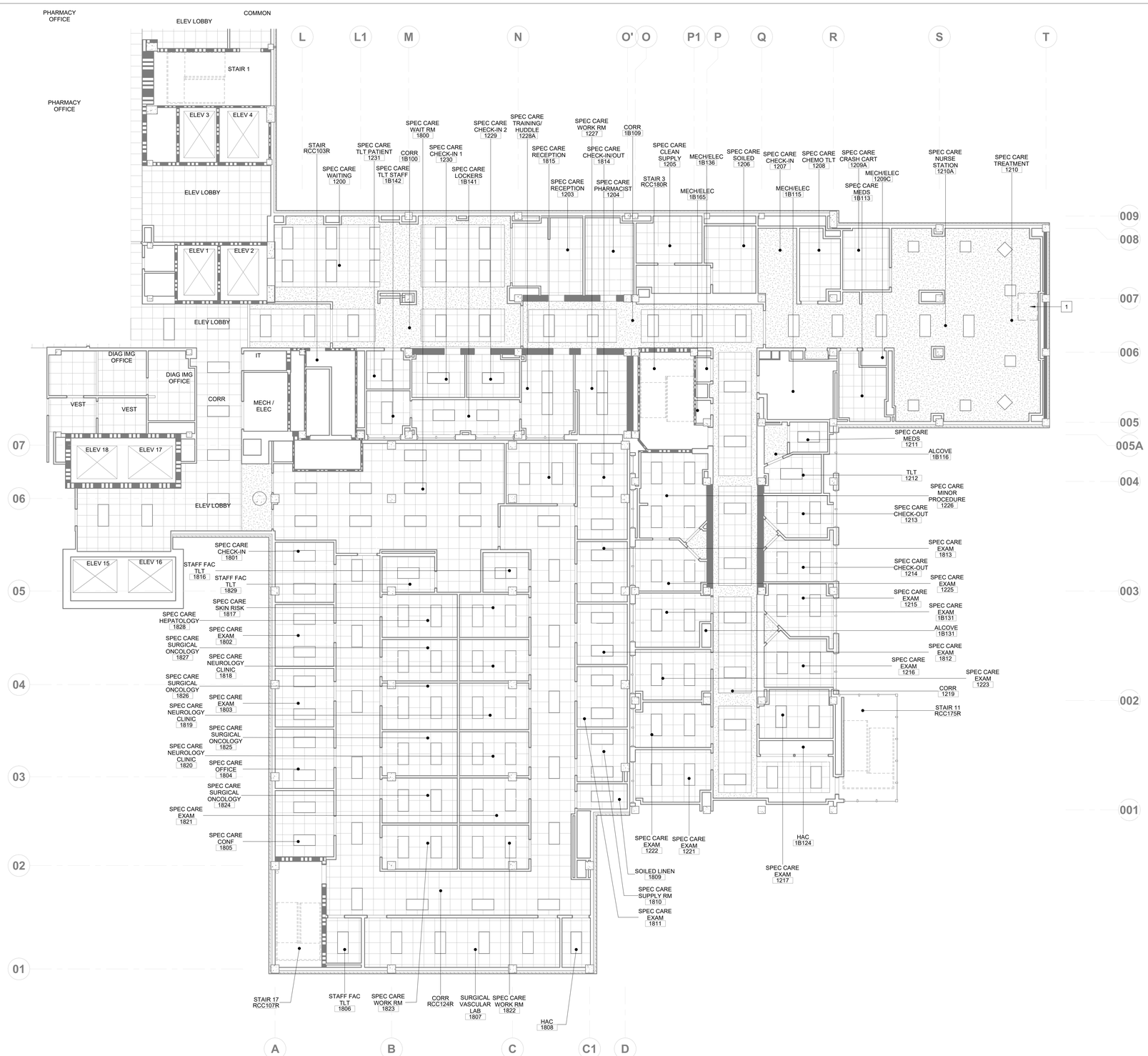


N

1 **DEMOLITION CEILING PLAN - PARTIAL FIRST FLOOR - 1K, 1B AREAS**

1/8" = 1'-0"

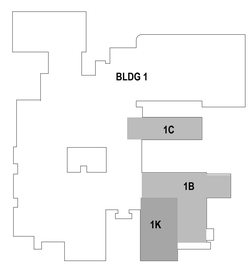
0 4' 8' 16'

GENERAL SHEET NOTES

1. SELECTIVE DEMOLITION/NEW WORK ABOVE EXISTING CEILING AS SHOWN.
2. COORDINATE PHASING/INFECTION CONTROL WITH VA.
3. RESTORE EXISTING CEILING TO ORIGINAL CONDITION PRIOR DEMOLITION/NEW WORK.
4. COORDINATE ALL WORK ABOVE CEILING WITH VA TO ACCOMMODATE ACTIVE CONSTRUCTION PROJECTS AND/OR OFF-HOURS WORK, AS REQUIRED.

KEYNOTES

1 SELECTIVE DEMOLITION OF DUCT-SEE MECHANICAL DRAWINGS, DEMOLISH PART OF GWB CEILING AND PATCH AND PAINT TO MATCH EXISTING WHEN MECH.WORK IS COMPLETE.



KEYPLAN

ISSUED FOR BID	05/15/2026
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Revisions:	Date:

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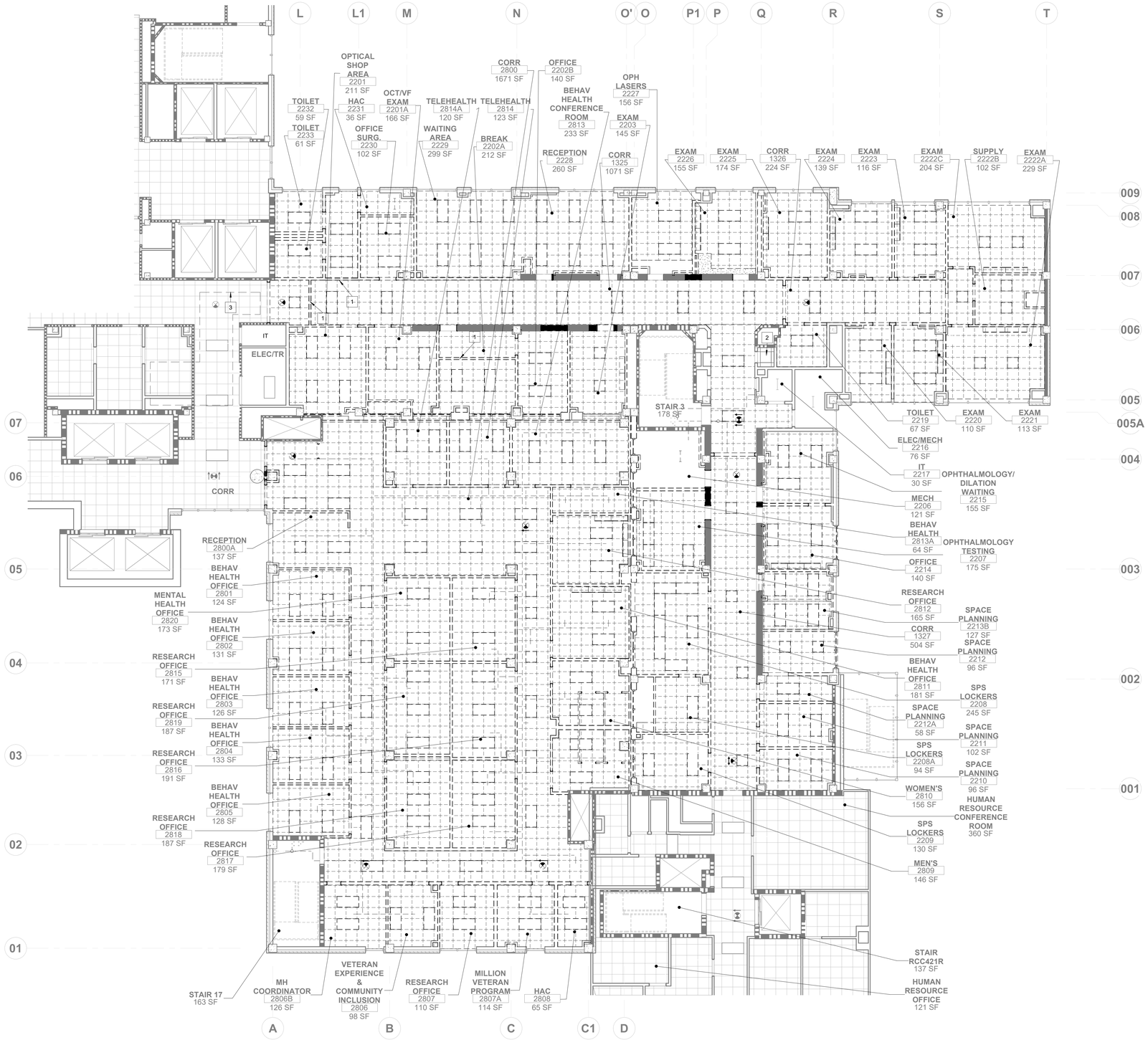
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - DEMOLITION CEILING PLAN - PARTIAL FIRST FLOOR - 1K, 1B AREAS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director	FULLY SPRINKLERED	Location: BIRMINGHAM VAMC	Drawing Number: ACD101
		Issue Date: 05/15/2026 / Checked: CR / Drawn: LD	

VA FORM 08-6231



N

1 DEMOLITION CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

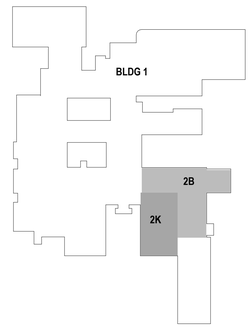
0 4' 8' 16'

GENERAL SHEET NOTES

1. REMOVE ALL CEILING-MOUNTED DEVICES IN CEILING AREA SHOWN TO BE DEMOLISHED U.N.O.
2. REMOVE ALL EXISTING CEILING CURTAIN TRACKS AND ASSOCIATED SUPPORTS IN AREA OF CEILING DEMOLITION.
3. COORDINATE ALL WORK ABOVE CEILING WITH VA TO ACCOMMODATE ACTIVE CONSTRUCTION PROJECTS AND/OR OFF-HOURS WORK, AS REQUIRED.

KEYNOTES

1	REMOVE GWB CEILING BULKHEAD.
2	EXISTING CEILING GRID AND TILE TO REMAIN.
3	SELECTIVE DEMOLITION ABOVE EXISTING CEILING.SEE MECHANICAL DRAWINGS FOR ADDITIONAL SCOPE. EXISTING CEILING GRID AND TILE TO REMAIN. COORDINATE OFF-HOURS, AS NEEDED, WITH THE VA.



KEYPLAN

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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: ARCHITECTURAL - DEMOLITION CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: ACD102

VA FORM 08-6231

N

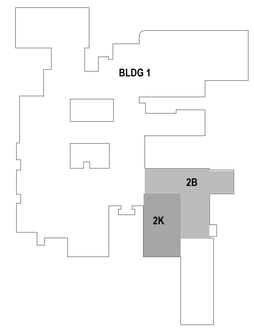
1 **CONSTRUCTION PLAN - PARTIAL SECOND FLOOR - 2K/2B AREAS**

1/8" = 1'-0"

GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURUAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.

KEYNOTES



KEYPLAN

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
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Revisions:	**Date:**

CONSULTANT

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LICENSED ARCHITECT DENNIS J NIKA 001-010880 STATE OF ILLINOIS 11/30/26

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL - FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase
ISSUED FOR BID

FULLY SPRINKLERED

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location
BIRMINGHAM VAMC

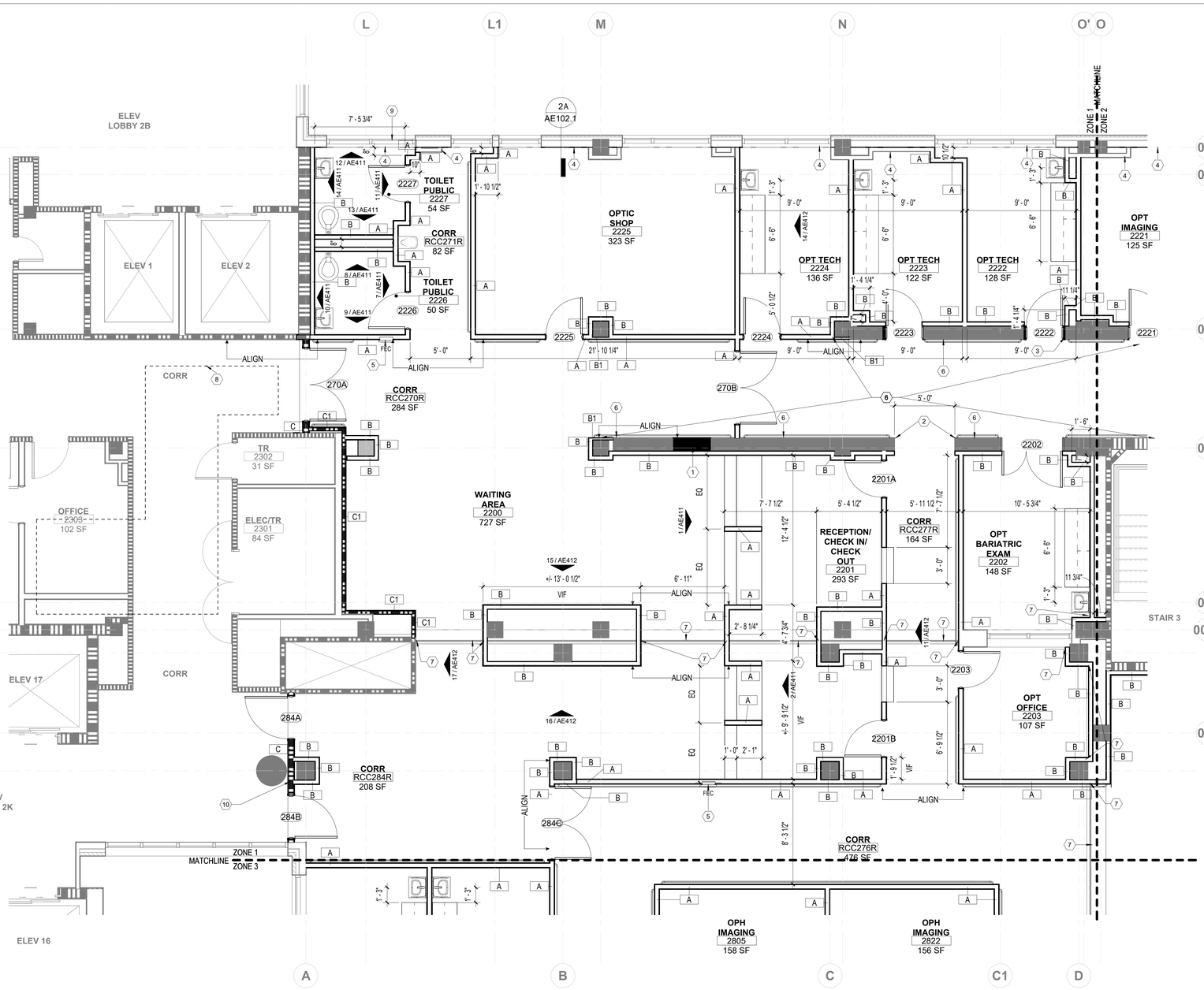
Issue Date 05/15/2026 | **Checked** CR | **Drawn** LD

Project Number 521-24-102

Building Number #1

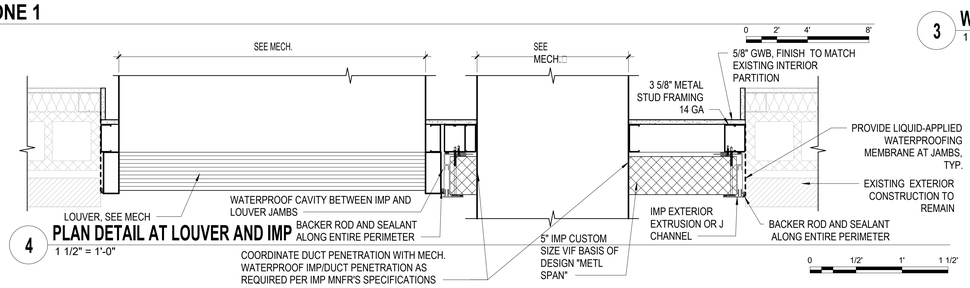
Drawing Number AE102

VA FORM 08-6231



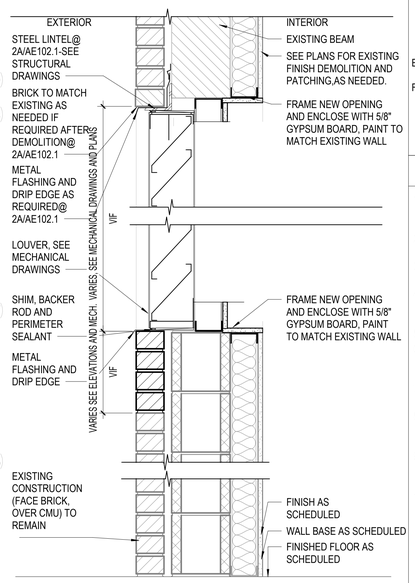
1 FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1

1/4" = 1'-0"



4 PLAN DETAIL AT LOUVER AND IMP

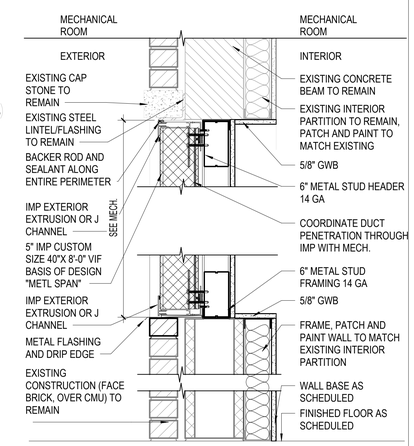
1 1/2" = 1'-0"



2 WALL SECTION AT LOUVER

1 1/2" = 1'-0"

0 1/2' 1' 1 1/2'



3 WALL SECTION AT IMP PANEL

1 1/2" = 1'-0"

0 1/2' 1' 1 1/2'

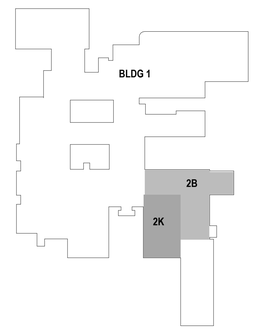
NOTE:
IMP PANELS FINISH STANDARD SELECTION FROM MNFR'S SELECTION MATCH IMP PANELS FINISH AND WINDOW FILM FINISH

GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.
D. EXISTING PLASTER WALLS, NOT SHOWN TO BE DEMOLISHED, TO REMAIN U.N.O. REMOVE ALL EXISTING WALL BASE AND WALL MOUNTED ITEMS IN THOSE WALLS, AS REQUIRED. PATCH AND PREPARE TO RECEIVE NEW FINISHES AS SCHEDULED. WHERE EXISTING PLASTER WALLS ARE SHOWN ADJACENT TO NEW GYPSUM WALL, CREATE A SMOOTH TRANSITION AND PREP SURFACE TO RECEIVE NEW FINISH AS SCHEDULED.
E. VERIFY IN FIELD ALL OPENINGS IN EXISTING SHEAR WALLS. NOTIFY AE AND VA OF ANY DISCREPANCIES UNCOVERED DURING CONSTRUCTION.
F. SEE GI101.1 FOR ENLARGED FLOOR PLAN ZONES.

KEYNOTES

1 EXISTING SHEAR WALL OPENING INFILL, SEE STRUCTURAL DRAWINGS. PATCH TO MATCH EXISTING PLASTER, AS NEEDED, AND PREP SURFACE TO RECEIVE FINISHES AS SCHEDULED.
2 OPENING IN EXISTING SHEAR WALL, SEE STRUCTURAL. FRAME OPENING, MATCH EXISTING PLASTER AND PAINT AS SCHEDULED.
3 INFILL PORTION OF OPENING IN EXISTING SHEAR WALL AROUND DOOR FRAME.
4 EXISTING PLASTER WALL TO REMAIN, PATCH AND PREP TO RECEIVE FINISHES AS SCHEDULED, TYPICAL AT ALL EXTERIOR PERIMETER, COORDINATE WITH DEMOLITION WORK.
5 SEMI RECESSED FIRE EXTINGUISHER CABINET.
6 EXISTING PLASTER WALL TO REMAIN TO THE EXTENT POSSIBLE AFTER SELECTIVE DEMOLITION. PATCH AND PREP, AS REQUIRED, TO RECEIVE FINISHES AS SCHEDULED.
7 BUILDING EXPANSION JOINT, SEE ROOM FINISH LEGEND AT AF601 FOR DETAILS.
8 WORK ABOVE EXISTING CEILING.SEE MECHANICAL DRAWINGS FOR ADDITIONAL SCOPE. EXISTING CEILING GRID AND TILE TO REMAIN. COORDINATE OFF-HOURS, AS NEEDED, WITH THE VA.
9 FLASH AND SEAL, AS NEEDED, OPENINGS FOR MECHANICAL EQUIPMENT.SEE MECHANICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
10 REINSTALL METAL LETTER SIGNAGE "2K".



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
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35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J NIDA 001-011692 STATE OF ILLINOIS
Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

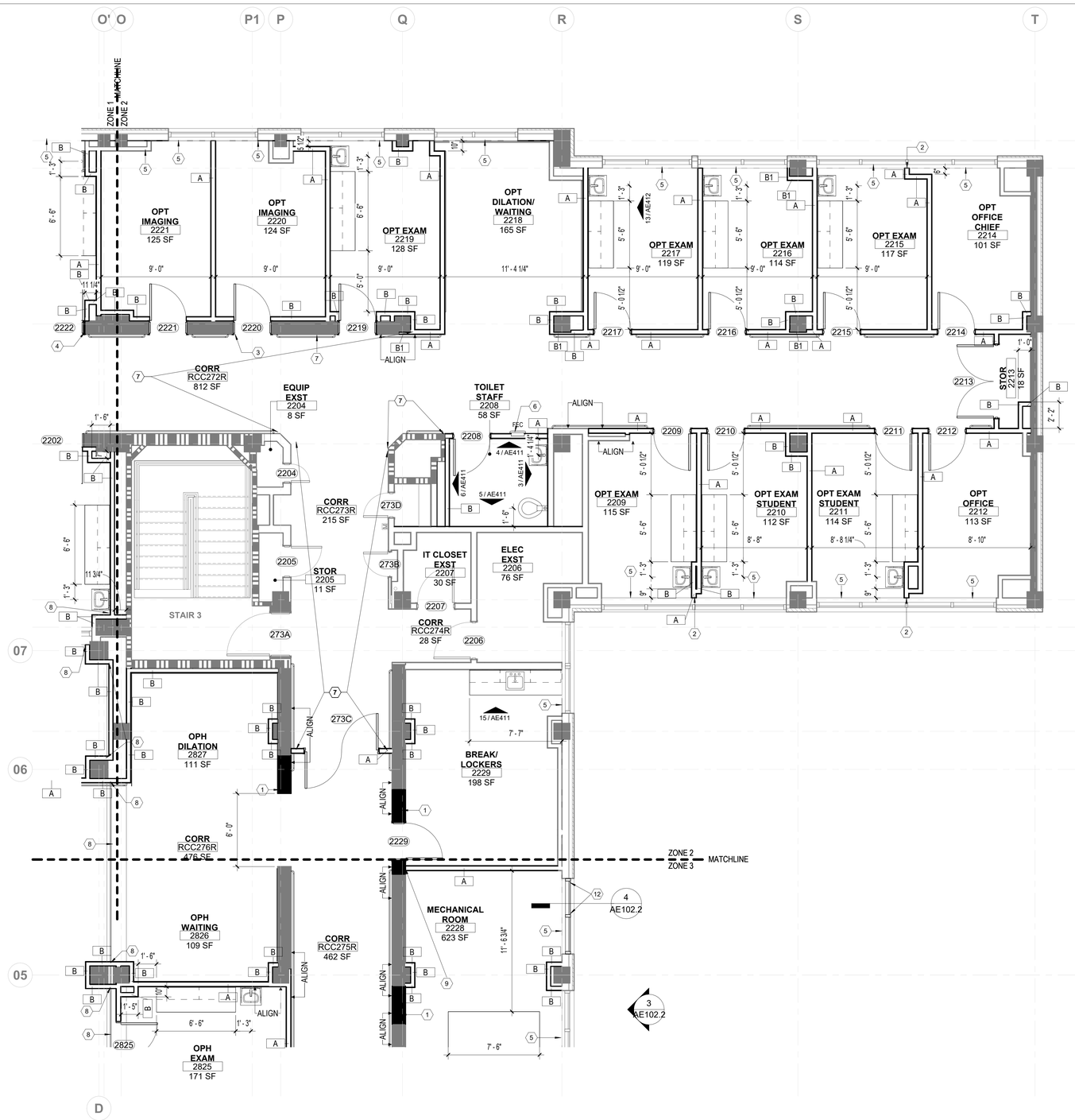
Drawing Number: AE102.1

Issue Date: 05/15/2026

Checked: CR

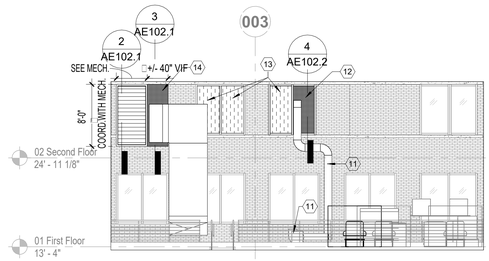
Drawn: LD

VA FORM 08-6231



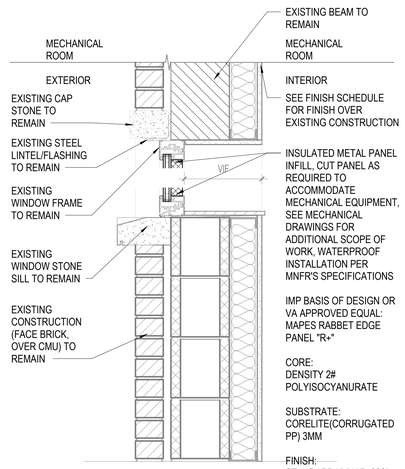
1 FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2

1/4" = 1'-0"



3 BUILDING ELEVATION

1/8" = 1'-0"



4 WALL SECTION

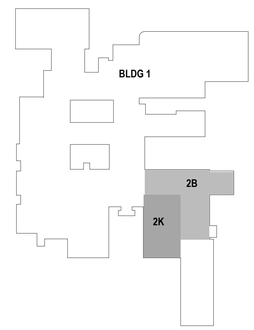
1 1/2" = 1'-0"

GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.
D. EXISTING PLASTER WALLS, NOT SHOWN TO BE DEMOLISHED, TO REMAIN U.N.O. REMOVE ALL EXISTING WALL BASE AND WALL MOUNTED ITEMS IN THOSE WALLS, AS REQUIRED. PATCH AND PREPARE TO RECEIVE NEW FINISHES AS SCHEDULED. WHERE EXISTING PLASTER WALLS ARE SHOWN ADJACENT TO NEW GYPSUM WALL, CREATE A SMOOTH TRANSITION AND PREP SURFACE TO RECEIVE NEW FINISH AS SCHEDULED.
E. VERIFY IN FIELD ALL OPENINGS IN EXISTING SHEAR WALLS. NOTIFY AE AND VA OF ANY DISCREPANCIES UNCOVERED DURING CONSTRUCTION.
F. SEE GI101.1 FOR ENLARGED FLOOR PLAN ZONES.

KEYNOTES

1	EXISTING SHEAR WALL OPENING INFILL, SEE STRUCTURAL DRAWINGS. PATCH TO MATCH EXISTING PLASTER, AS NEEDED, AND PREP SURFACE TO RECEIVE FINISHES AS SCHEDULED.
2	INTERIOR PARTITION CENTERED ON EXISTING MULLION, SEE 4/AE511, TYP. AT ALL LOCATIONS.
3	OPENING IN EXISTING SHEAR WALL, SEE STRUCTURAL. FRAME OPENING, MATCH EXISTING PLASTER AND PAINT AS SCHEDULED.
4	INFILL PORTION OF OPENING IN EXISTING SHEAR WALL AROUND DOOR FRAME.
5	EXISTING PLASTER WALL TO REMAIN, PATCH AND PREP TO RECEIVE FINISHES AS SCHEDULED, TYPICAL AT ALL EXTERIOR PERIMETER, COORDINATE WITH DEMOLITION WORK.
6	SEMI RECESSED FIRE EXTINGUISHER CABINET.
7	EXISTING PLASTER WALL TO REMAIN TO THE EXTENT POSSIBLE AFTER SELECTIVE DEMOLITION. PATCH AND PREP, AS REQUIRED, TO RECEIVE FINISHES AS SCHEDULED.
8	BUILDING EXPANSION JOINT, SEE ROOM FINISH LEGEND AT AF601 FOR DETAILS.
9	PROVIDE 1 HR RATING AT EXISTING SHEAR WALL IN THE MECHANICAL ROOM.
11	MEP EQUIPMENT, SEE MEP DRAWINGS.
12	PROVIDE INSULATED METAL PANEL WITHIN EXISTING WINDOW FRAME, CUT PANEL TO ACCOMMODATE MECHANICAL DUCT PENETRATION, SEE MECHANICAL DRAWINGS.
13	PROVIDE OPAQUE WINDOW FILM ON EXISTING GLAZING.
14	FRAME THE OPENING AFTER DEMOLITION OF PART OF EXTERIOR CONSTRUCTION. SEE 2/AD102. PROVIDE INSULATED METAL PANEL (IMP). CUT PANEL TO ACCOMMODATE MECHANICAL DUCT PENETRATION, SEE MECHANICAL DRAWINGS. REFER TO 3/AE102.1.



KEYPLAN

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Revisions:	Date:

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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J WEA 001.021888 STATE OF ILLINOIS
Exp. 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

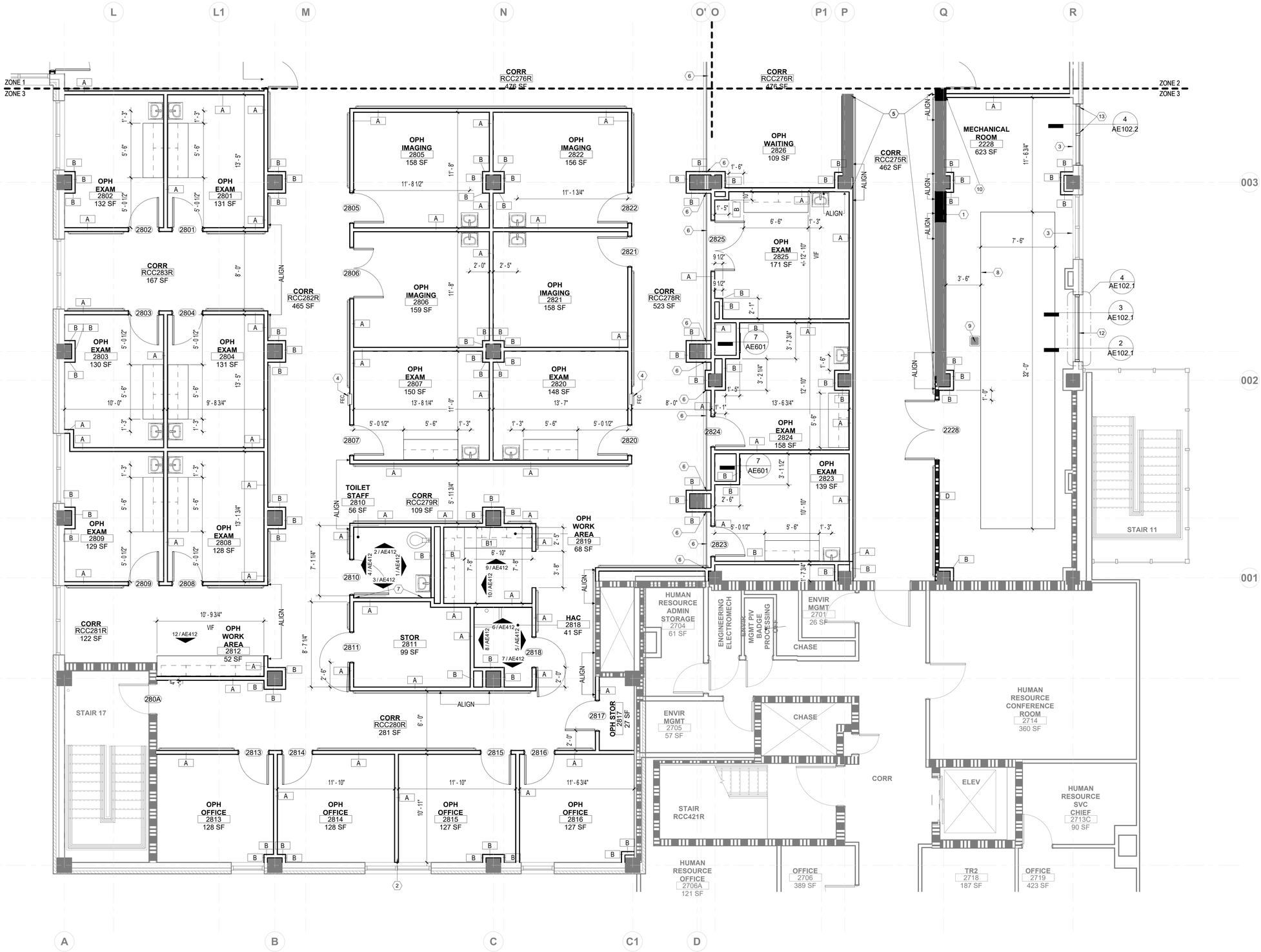
Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: AE102.2

VA FORM 08-6231

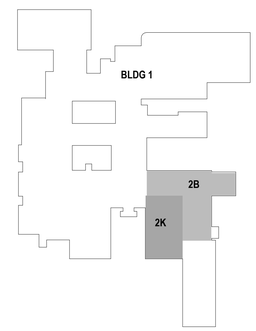


GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.
D. EXISTING PLASTER WALLS, NOT SHOWN TO BE DEMOLISHED, TO REMAIN U.N.O. REMOVE ALL EXISTING WALL BASE AND WALL MOUNTED ITEMS IN THOSE WALLS, AS REQUIRED. PATCH AND PREPARE TO RECEIVE NEW FINISHES AS SCHEDULED. WHERE EXISTING PLASTER WALLS ARE SHOWN ADJACENT TO NEW GYPSUM WALL, CREATE A SMOOTH TRANSITION AND PREP SURFACE TO RECEIVE NEW FINISH AS SCHEDULED.
E. VERIFY IN FIELD ALL OPENINGS IN EXISTING SHEAR WALLS. NOTIFY AE AND VA OF ANY DISCREPANCIES UNCOVERED DURING CONSTRUCTION.
F. SEE GI101.1 FOR ENLARGED FLOOR PLAN ZONES.

KEYNOTES

1 EXISTING SHEAR WALL OPENING INFILL, SEE STRUCTURAL DRAWINGS. PATCH TO MATCH EXISTING PLASTER, AS NEEDED, AND PREP SURFACE TO RECEIVE FINISHES AS SCHEDULED.
2 INTERIOR PARTITION CENTERED ON EXISTING MULLION, SEE 4/AE511, TYP. AT ALL LOCATIONS.
3 EXISTING PLASTER WALL TO REMAIN, PATCH AND PREP TO RECEIVE FINISHES AS SCHEDULED, TYPICAL AT ALL EXTERIOR PERIMETER, COORDINATE WITH DEMOLITION WORK.
4 SEMI RECESSED FIRE EXTINGUISHER CABINET.
5 EXISTING PLASTER WALL TO REMAIN TO THE EXTENT POSSIBLE AFTER SELECTIVE DEMOLITION. PATCH AND PREP, AS REQUIRED, TO RECEIVE FINISHES AS SCHEDULED.
6 BUILDING EXPANSION JOINT, SEE ROOM FINISH LEGEND AT AF601 FOR DETAILS.
7 PROVIDE MOISTURE RESISTANT CEMENT BOARD AT WET WALL IN LIEU OF TYPE X GYPSUM BOARD. MAINTAIN 1 HR FIRE RATING OF PARTITION, AS SHOWN ON DRAWINGS, BY SELECTION OF CEMENT BOARD TYPE AND FASTENERS TO ACCOMMODATE THE REQUIRED FIRE RATING.
8 6" CONCRETE EQUIPMENT PAD, SEE MEP/STRUCTURAL DRAWINGS FOR DETAILS.
9 FLOOR DRAIN, SEE PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL SCOPE.
10 PROVIDE 1 HR RATING AT EXISTING SHEAR WALL IN THE MECHANICAL ROOM.
12 FRAME THE OPENING AFTER DEMOLITION OF PART OF EXTERIOR CONSTRUCTION. SEE 2/AD102. PROVIDE INSULATED METAL PANEL (IMP). CUT PANEL TO ACCOMMODATE MECHANICAL DUCT PENETRATION. SEE MECHANICAL DRAWINGS. REFER TO 3/AE102.1.
13 PROVIDE INSULATED METAL PANEL WITHIN EXISTING WINDOW FRAME. CUT PANEL TO ACCOMMODATE MECHANICAL DUCT PENETRATION, SEE MECHANICAL DRAWINGS.



KEYPLAN

1 FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3

1/4" = 1'-0"

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

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Bancroft Project No. 23-135

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - FLOOR PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

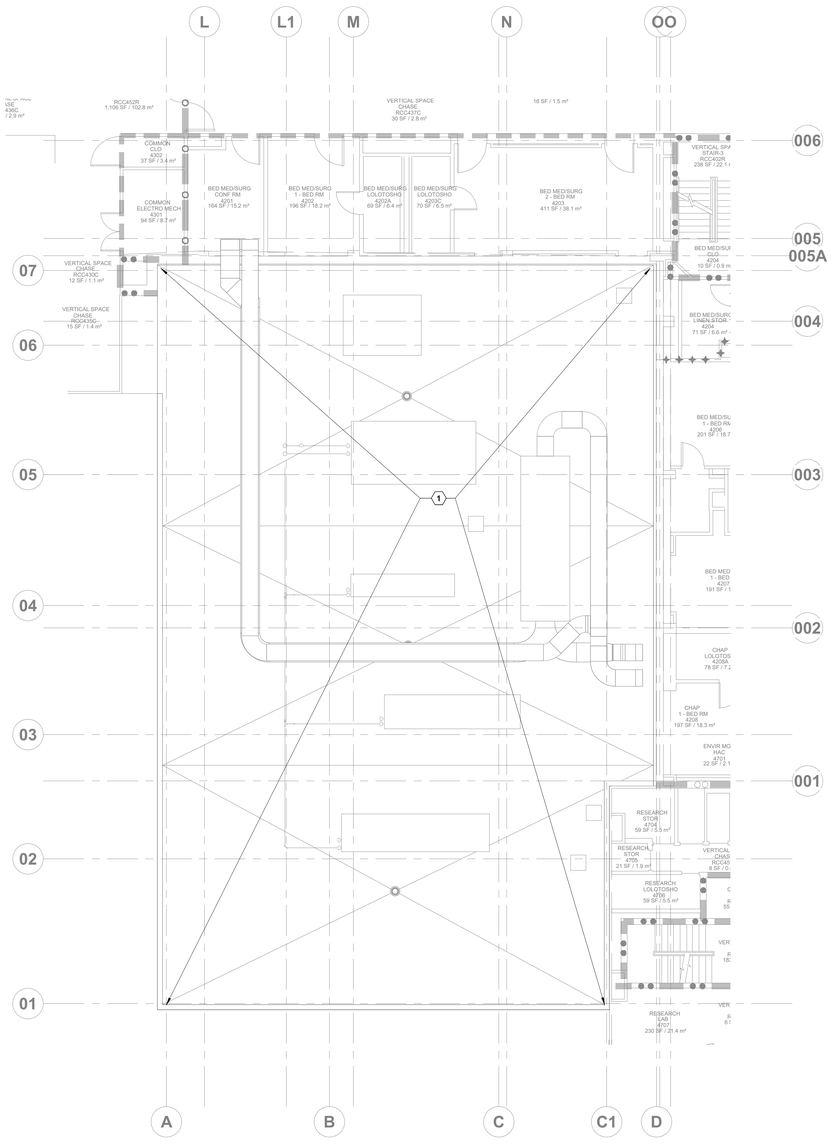
Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: AE102.3

VA FORM 08-6231



N 1 **FLOOR PLAN - PARTIAL ROOF - 4K AREA**

1/8" = 1'-0"

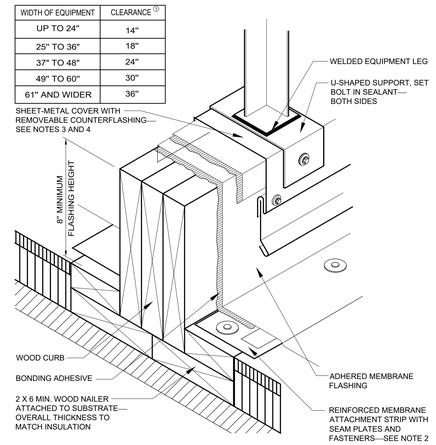
0 4' 8' 16'

N 2 **FLOOR PLAN - PARTIAL ROOF - 1B AREA**

1/8" = 1'-0"

0 4' 8' 16'

WIDTH OF EQUIPMENT	CLEARANCE ①
UP TO 24"	14"
25" TO 36"	18"
37" TO 48"	24"
49" TO 60"	30"
61" AND WIDER	36"



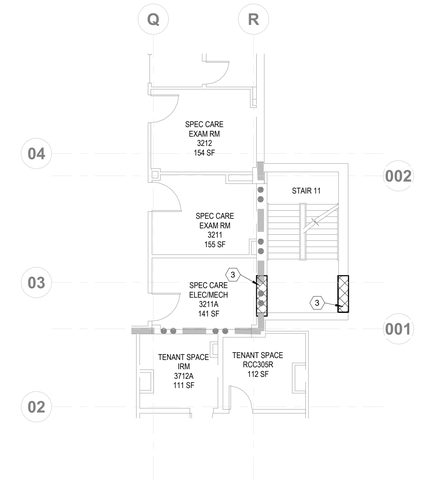
NOTES:

1. THIS DETAIL ALLOWS FOR MEMBRANE MAINTENANCE AROUND THE SUPPORTED EQUIPMENT. THE CONTINUOUS SUPPORT IS PREFERRED IN LIGHTWEIGHT STRUCTURAL SYSTEMS BECAUSE THE EQUIPMENT WEIGHT CAN BE SPREAD ACROSS TWO OR MORE SUPPORTING MEMBERS. WHERE HEAVY STRUCTURAL SYSTEMS ARE USED OR WHERE THE LOAD CAN BE CONCENTRATED OVER A COLUMN, DETAIL EPDM-11 MAY BE PREFERRED. A MINIMUM OF 2 FEET OF HORIZONTAL CLEARANCE MUST BE PROVIDED FOR REMOVAL AND REPLACEMENT OF ROOFING AND FLASHING BETWEEN PARALLEL SUPPORTS. REFER TO THE TABLE FOR RECOMMENDATIONS ON VERTICAL CLEARANCE FROM ROOF SURFACE TO BOTTOM OF SUPPORTED EQUIPMENT.
2. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR LEAKAGE CONTROL, AND REROOFING FOR DESIGN, JOINERY AND SECUREMENT OPTIONS FOR SHEET-METAL COVERS.
4. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.

BASE FLASHING AT LIGHTWEIGHT EQUIPMENT SUPPORT CURB

3 **EPDM ROOF DETAIL, TYP. - EQ.CURB**

NOT TO SCALE



N 4 **FLOOR PLAN - PARTIAL THIRD FLOOR - 3B AREA**

1/8" = 1'-0"

0 4' 8' 16'

GENERAL SHEET NOTES

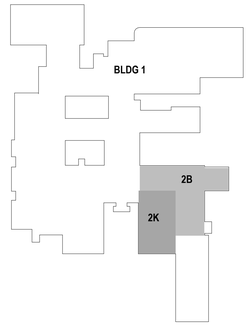
A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.

KEYNOTES

1 EXISTING MEP EQUIPEMNT TO REMAIN. MEP SCOPE OF WORK AT EXISTING EQUIPMENT. COORDINATE WITH MEP DRAWINGS.

2 SEAL AND FLASH, AS REQUIRED, ALL PENETRATIONS IN EXISTING ROOF, RESULTING FROM MEP WORK REQUIRED FOR THIS PROJECT. FLASH AND SEAL EXISTING ROOFING SYSTEM PER MANUFACTURER'S SPECIFICATIONS SO THAT ROOFING SYSTEM WARRANTY IS MAINTAINED. SEE MEP DRAWINGS FOR DETAILS.

3 FILL IN EXISTING WALL, PATCH AND PAINT TO MATCH EXISTING CONSTRUCTION.



KEYPLAN

ISSUED FOR BID	05/15/2026
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Revisions:	Date:

CONSULTANT

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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J MIRA 001-011999 STATE OF ILLINOIS 5/15/26 Exp. 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - FLOOR PLAN - PARTIAL ROOF PLAN - 4K, 1B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Project Number: 521-24-102

Building Number: #1

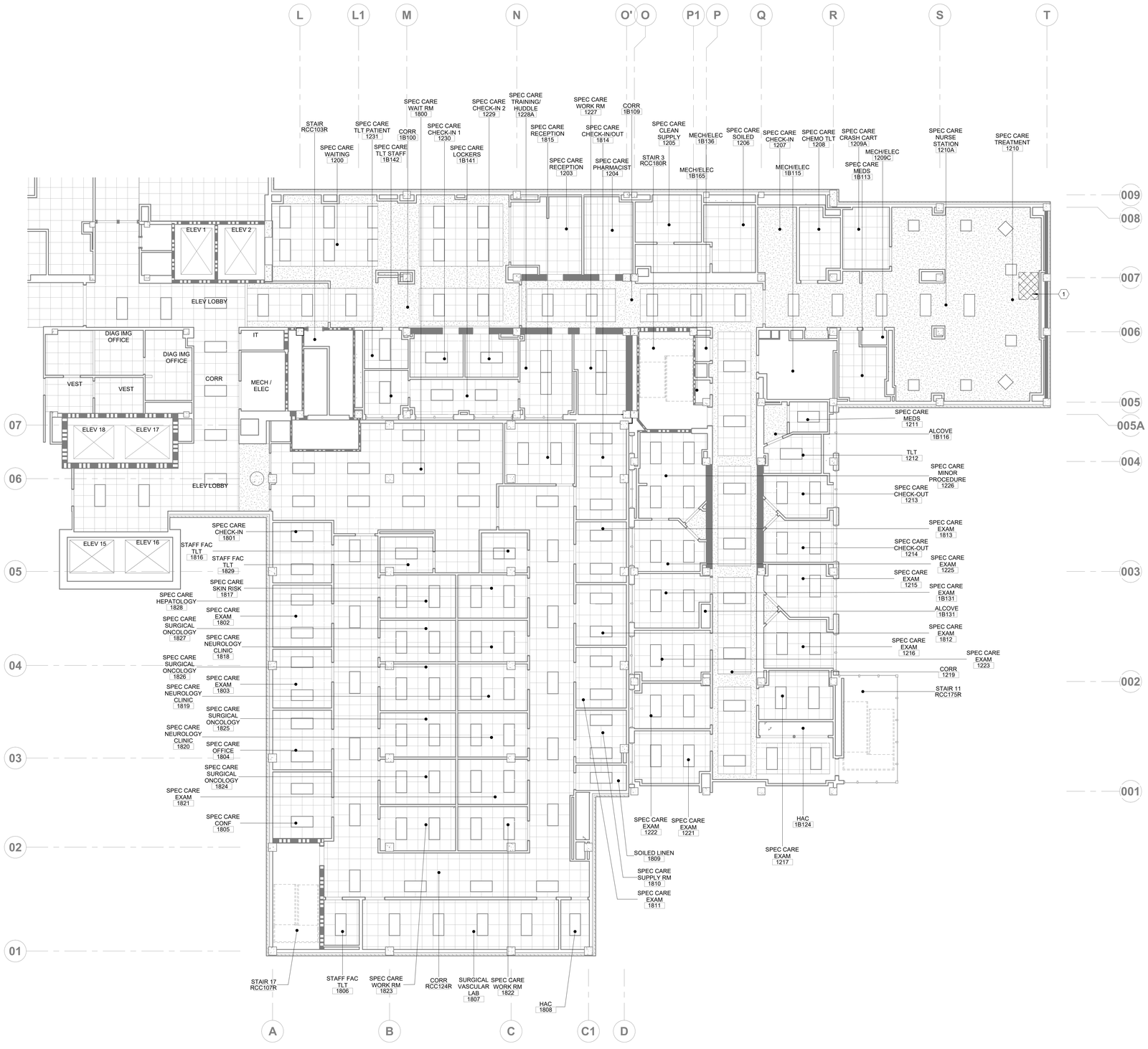
Drawing Number: AE103

Issue Date: 05/15/2026

Checked: CR

Drawn: LD

VA FORM 08-6231



N

1 CEILING PLAN - PARTIAL FIRST FLOOR - 1K, 1B AREAS

1/8" = 1'-0"

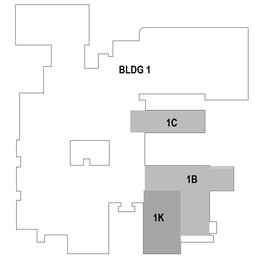
0 4" 8" 16"

GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.
D. COORDINATE ALL WORK ABOVE CEILING WITH VA TO ACCOMMODATE ACTIVE CONSTRUCTION PROJECTS AND/OR OFF-HOURS WORK, AS REQUIRED.

KEYNOTES

1 SELECTIVE DEMOLITION OF DUCT-SEE MECHANICAL DRAWINGS, DEMOLISH PART OF GWB CEILING AND PATCH AND PAINT TO MATCH EXISTING WHEN MECH.WORK IS COMPLETE.



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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J NIKA 001-011989 STATE OF ILLINOIS 5/15/26 Exp. 11/30/26

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - CEILING PLAN - PARTIAL FIRST FLOOR - 1K, 1B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: AC101

VA FORM 08-6231

N

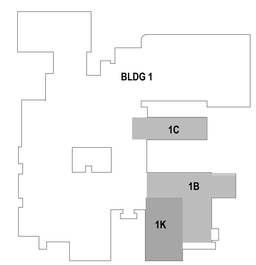
1 **CEILING PLAN - PARTIAL SECOND FLOOR - 2K/2B AREAS**

1/8" = 1'-0"

GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.
D. COORDINATE ALL WORK ABOVE CEILING WITH VA TO ACCOMMODATE ACTIVE CONSTRUCTION PROJECTS AND/OR OFF-HOURS WORK, AS REQUIRED.

KEYNOTES



KEYPLAN

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
Revisions:	**Date:**

CONSULTANT

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BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036

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Mount Prospect, IL 60056
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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J NIDA 001-011692 STATE OF ILLINOIS
Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL - CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase
ISSUED FOR BID

FULLY SPRINKLERED

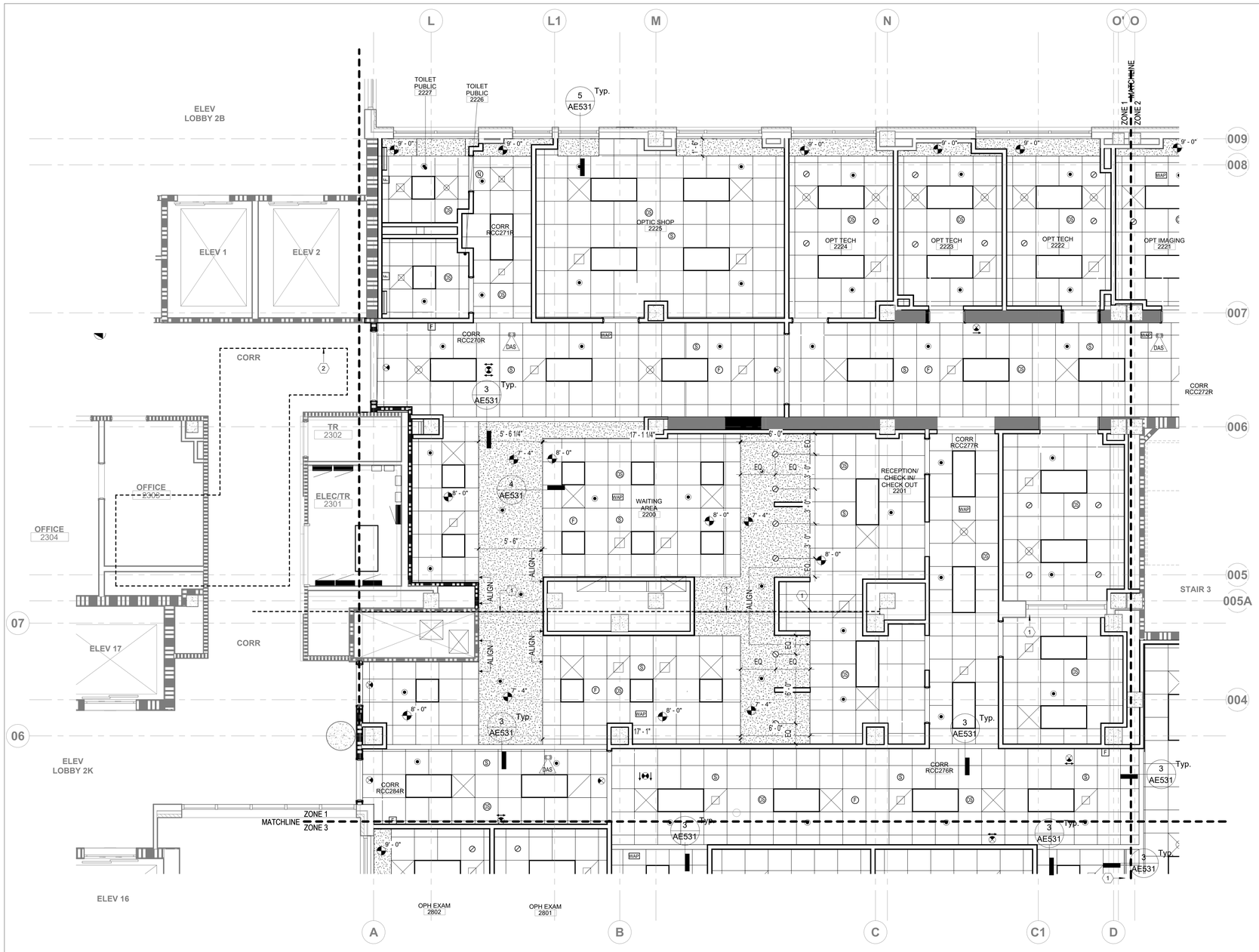
Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location
BIRMINGHAM VAMC

Issue Date 05/15/2026
Checked CR
Drawn LD

Project Number 521-24-102
Building Number #1
Drawing Number AC102

VA FORM 08-6231



1 CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1

1/4" = 1'-0"

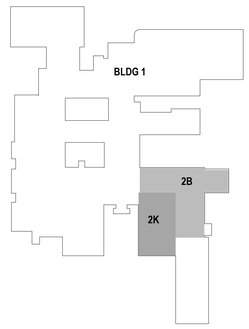
0 2' 4' 8'

GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.
D. PROVIDE A MIN 6", PREFERRED 8", CLEARANCE BETWEEN CEILING AS SCHEDULED AND EXISTING/NEW INFRASTRUCTURE ABOVE.
E. COORDINATE ALL WORK ABOVE CEILING WITH VA TO ACCOMMODATE ACTIVE CONSTRUCTION PROJECTS AND/OR OFF-HOURS WORK, AS REQUIRED.

KEYNOTES

1 BUILDING EXPANSION JOINT, SEE ROOM FINISH LEGEND AT AF601 FOR DETAILS.
2 WORK ABOVE EXISTING CEILING.SEE MECHANICAL DRAWINGS FOR ADDITIONAL SCOPE. EXISTING CEILING GRID AND TILE TO REMAIN. COORDINATE OFF-HOURS, AS NEEDED, WITH THE VA.



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

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Bancroft Project No. 23-135

STAMP

DENNIS J MIKA 031-011569 LICENSED ARCHITECT STATE OF ILLINOIS 5/15/26 Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: AC102.1

VA FORM 08-6231

N

1 CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2

1/4" = 1'-0"

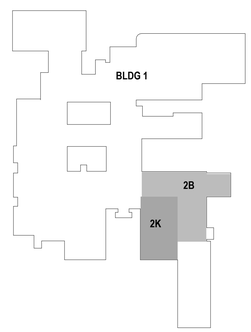
0 2' 4' 8'

GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURUAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.
D. PROVIDE A MIN 6", PREFERRED 8", CLEARANCE BETWEEN CEILING AS SCHEDULED AND EXISTING/NEW INFRASTRUCTURE ABOVE.
E. COORDINATE ALL WORK ABOVE CEILING WITH VA TO ACCOMMODATE ACTIVE CONSTRUCTION PROJECTS AND/OR OFF-HOURS WORK, AS REQUIRED.

KEYNOTES

1 BUILDING EXPANSION JOINT, SEE ROOM FINISH LEGEND AT AF601 FOR DETAILS.
2 WALL MOUNTED LIGHT FIXTURES IN ROOM. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE.



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J. MIKA 001-011959 5/15/26 STATE OF ILLINOIS
Exp. 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

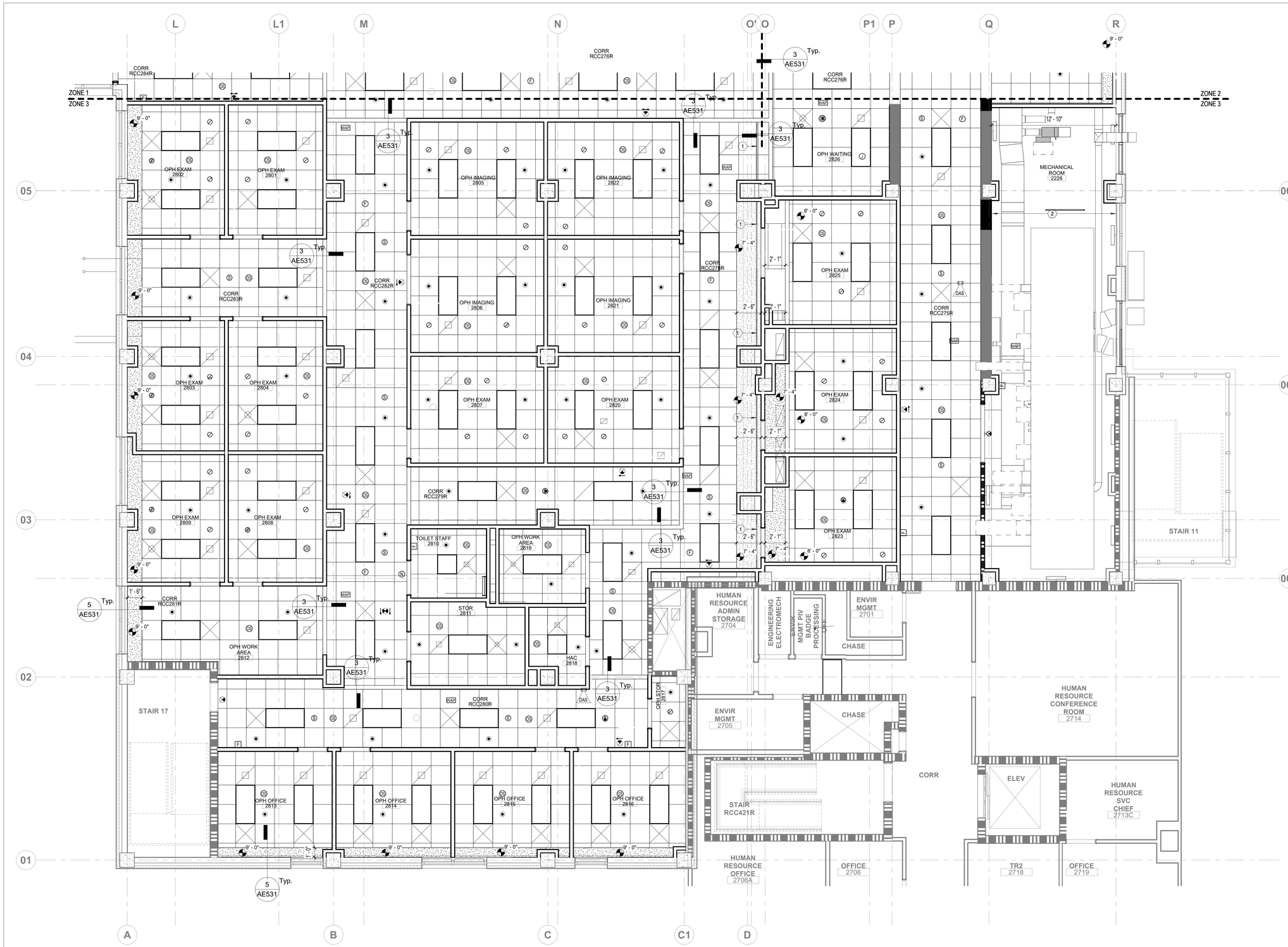
Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: AC102.2

VA FORM 08-6231

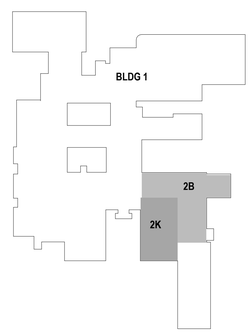


GENERAL SHEET NOTES

A. SEE LIFE SAFETY PLAN FOR FIRE-RATED PARTITION LEGEND.
B. SEE AE501 FOR PARTITION TYPE DETAILS.
C. SEE A001, A002 FOR ARCHITECTURAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.
D. PROVIDE A MIN 6", PREFERRED 8", CLEARANCE BETWEEN CEILING AS SCHEDULED AND EXISTING/NEW INFRASTRUCTURE ABOVE.
E. COORDINATE ALL WORK ABOVE CEILING WITH VA TO ACCOMMODATE ACTIVE CONSTRUCTION PROJECTS AND/OR OFF-HOURS WORK, AS REQUIRED.

KEYNOTES

1 BUILDING EXPANSION JOINT, SEE ROOM FINISH LEGEND AT AF601 FOR DETAILS.
2 WALL MOUNTED LIGHT FIXTURES IN ROOM. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE.



KEYPLAN

1 CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3

1/4" = 1'-0"

N

0 2' 4' 8'

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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Bancroft Project No. 23-135

STAMP

LICENSED ARCHITECT 001-011990 STATE OF ILLINOIS
EXP: 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - CEILING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

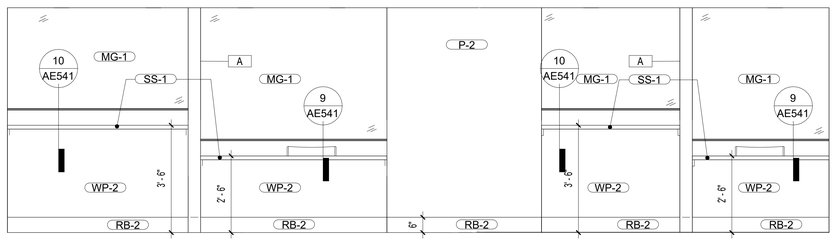
Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

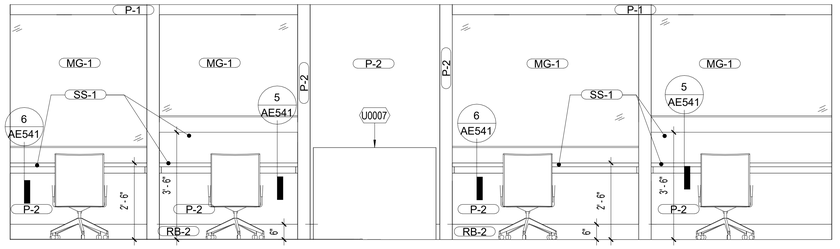
Drawing Number: AC102.3

VA FORM 08-6231



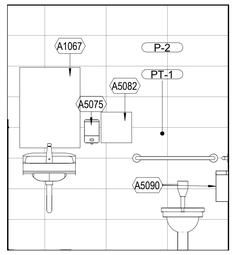
1 2201 RECEPTION EAST

1/2" = 1'-0"



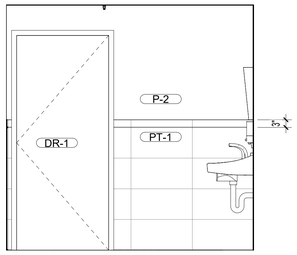
2 2201 RECEPTION WEST

1/2" = 1'-0"



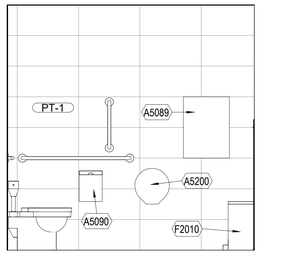
3 2208 TLT EAST

1/2" = 1'-0"



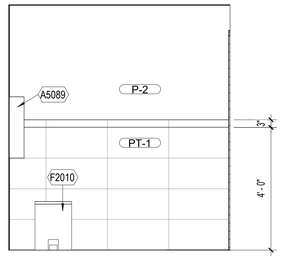
4 2208 TLT NORTH

1/2" = 1'-0"



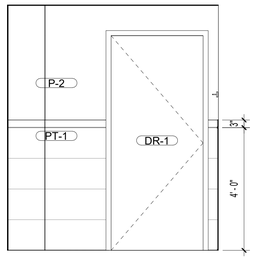
5 2208 TLT SOUTH

1/2" = 1'-0"



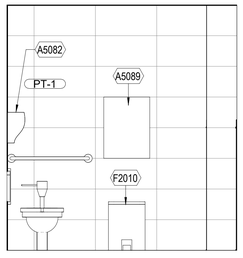
6 2208 TLT WEST

1/2" = 1'-0"



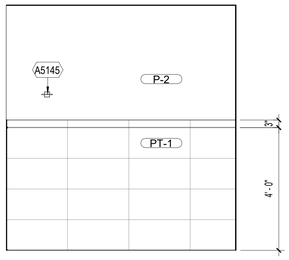
7 2226 TLT EAST

1/2" = 1'-0"



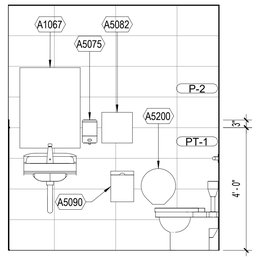
8 2226 TLT NORTH

1/2" = 1'-0"



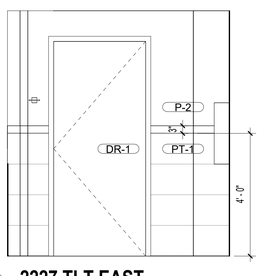
9 2226 TLT SOUTH

1/2" = 1'-0"



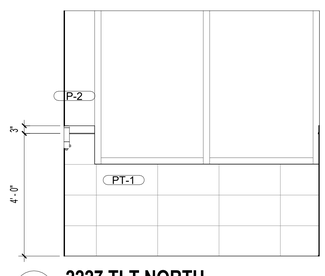
10 2226 TLT WEST

1/2" = 1'-0"



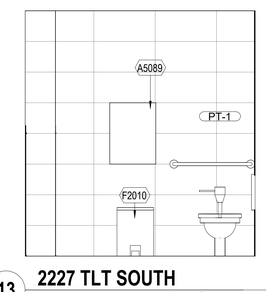
11 2227 TLT EAST

1/2" = 1'-0"



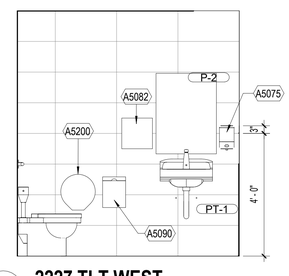
12 2227 TLT NORTH

1/2" = 1'-0"



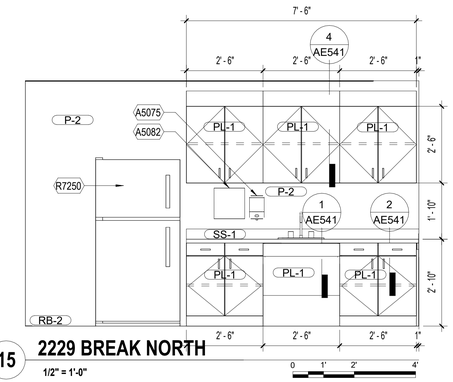
13 2227 TLT SOUTH

1/2" = 1'-0"



14 2227 TLT WEST

1/2" = 1'-0"



15 2229 BREAK NORTH

1/2" = 1'-0"

GENERAL SHEET NOTES

A. SEE Q601, Q602 FOR FFE AND EQUIPMENT SCHEDULE.
B. SEE AW SERIES FOR SIGNAGE DETAILS.
C. SEE AF SERIES FOR FINISH LEGEND AND DETAILS.
D. SEE A001, A002 FOR ARCHITECTURUAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.

KEYNOTES

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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VA CONTRACT NO. 36C24724C0036
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Mount Prospect, IL 60056
T: 847-952-9362
www.bancroft-ae.com
Bancroft Project No. 23-135

STAMP

LICENSED ARCHITECT
DENNIS J NIKA
001-011669
STATE OF ILLINOIS
5/15/26
EXP. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - INTERIOR ELEVATIONS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

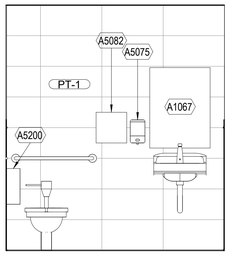
Drawn: LD

Project Number: 521-24-102

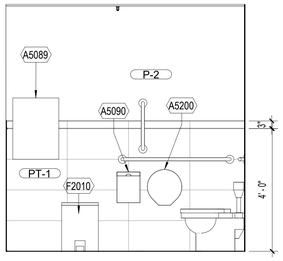
Building Number: #1

Drawing Number: AE411

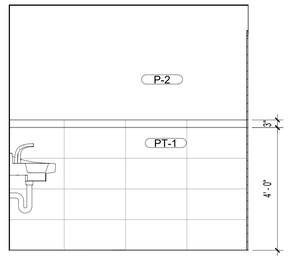
VA FORM 08-6231



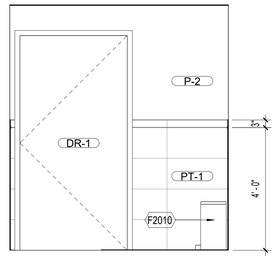
1 **2810 TLT EAST**
1/2" = 1'-0"



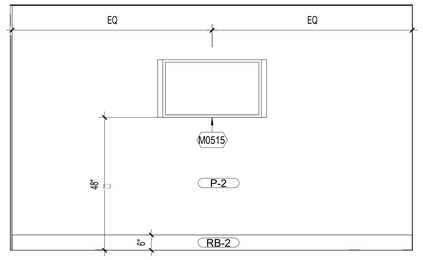
2 **2810 TLT NORTH**
1/2" = 1'-0"



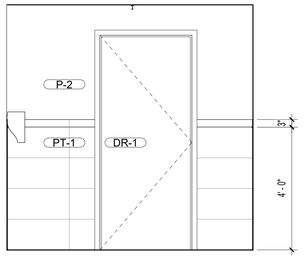
3 **2810 TLT SOUTH**
1/2" = 1'-0"



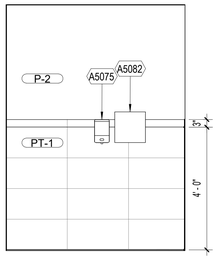
4 **2810 TLT WEST**
1/2" = 1'-0"



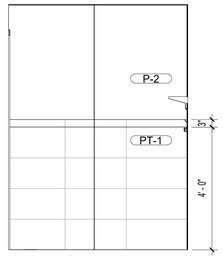
15 **2200 WAITING NORTH**
1/2" = 1'-0"



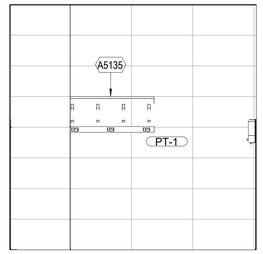
5 **2818 HAC EAST**
1/2" = 1'-0"



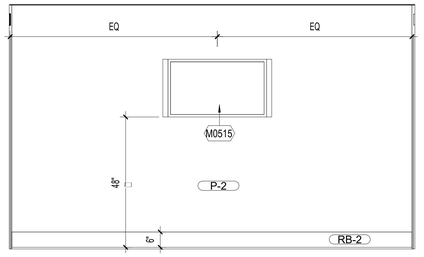
6 **2818 HAC NORTH**
1/2" = 1'-0"



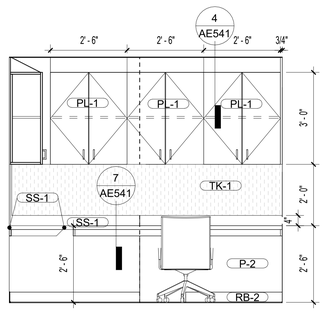
7 **2818 HAC SOUTH**
1/2" = 1'-0"



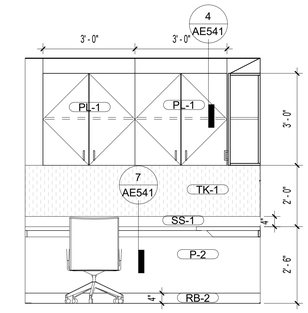
8 **2818 HAC WEST**
1/2" = 1'-0"



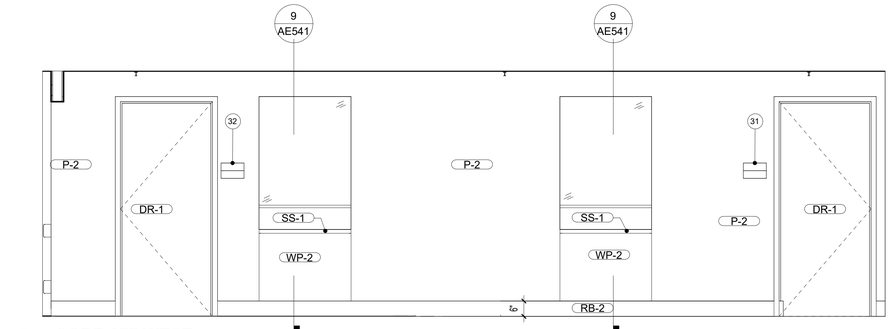
16 **2200 WAITING SOUTH**
1/2" = 1'-0"



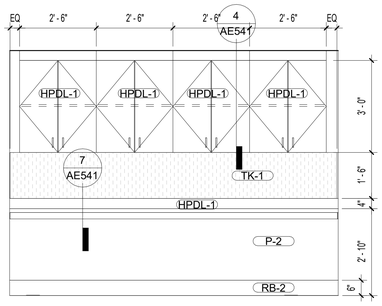
9 **2819 WORK AREA NORTH**
1/2" = 1'-0"



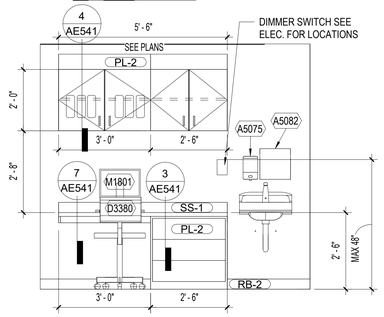
10 **2819 WORK AREA WEST**
1/2" = 1'-0"



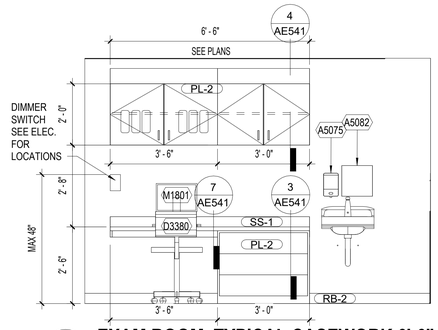
11 **CORR 277 WEST**
1/2" = 1'-0"



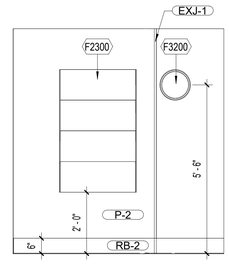
12 **2812 WORK AREA SOUTH**
1/2" = 1'-0"



13 **EXAM ROOM, TYPICAL CASEWORK 5'-6"**
1/2" = 1'-0"



14 **EXAM ROOM, TYPICAL CASEWORK 6'-6"**
1/2" = 1'-0"



17 **2200 WAITING WEST**
1/2" = 1'-0"

GENERAL SHEET NOTES

A. SEE Q601, Q602 FOR FFE AND EQUIPMENT SCHEDULE.
B. SEE AW SERIES FOR SIGNAGE DETAILS.
C. SEE AF SERIES FOR FINISH LEGEND AND DETAILS.
D. SEE A001, A002 FOR ARCHITECTURUAL SHEET NOTES, SYMBOLS AND ABBREVIATIONS.

KEYNOTES

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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www.bancroft-ae.com
Bancroft Project No. 23-135

STAMP

REGISTERED ARCHITECT
DENNIS J MIKA
001-011997
STATE OF ILLINOIS
5/15/26
Exp. 11/30/26

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - INTERIOR ELEVATIONS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

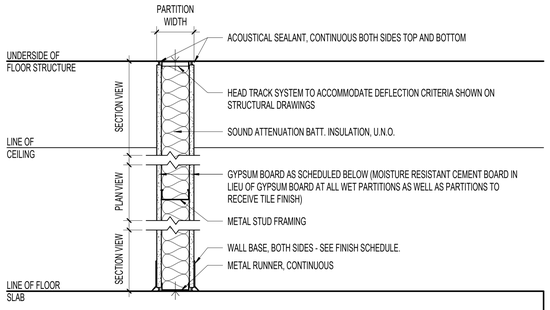
Issue Date: 05/15/2026 | Checked: CR | Drawn: LD

Project Number: 521-24-102

Building Number: #1

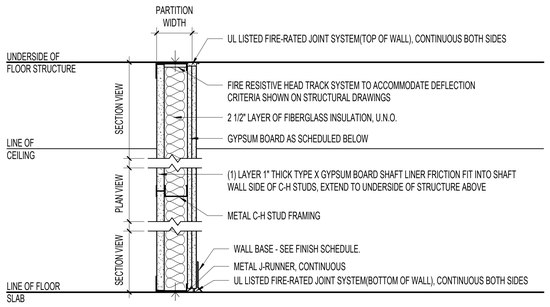
Drawing Number: AE412

VA FORM 08-6231



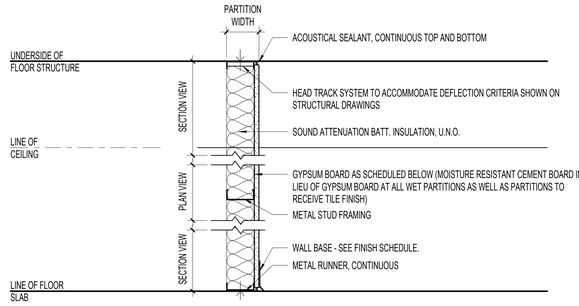
WALL TAG	GYPSUM BOARD/CEMENT BOARD	STUD WIDTH	PART. WIDTH	FIRE RATING	UL LISTING	STC RATING	REMARKS
A	(1) LAYER 5/8" , EACH SIDE	3-5/8"	4-7/8"	NOT RATED	-	44 MIN.	

NON-RATED PARTITIONS



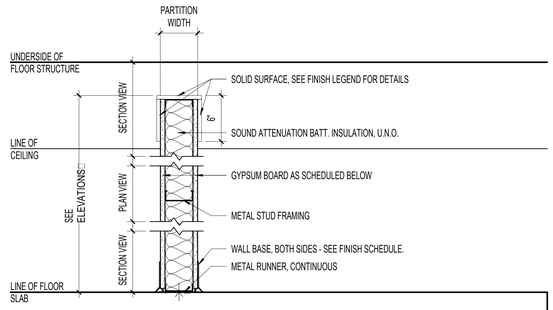
WALL TAG	GYPSUM BOARD	STUD WIDTH	PART. WIDTH	FIRE RATING	UL LISTING	STC RATING	REMARKS
C1	(2) LAYERS 5/8" (TYPE-X) ON CH STUDS, 25 GA. 24 O.C. (1) LAYER 1" THICK TYPE X GYPSUM BOARD SHAFT LINER FRICTION FIT INTO SHAFT WALL SIDE OF C-H STUDS, EXTEND TO UNDERSIDE OF STRUCTURE ABOVE	2 1/2"	4 3/4"	2 HR	U415 SYST. B	- -	SHAFT WALL -

RATED SHAFT PARTITIONS



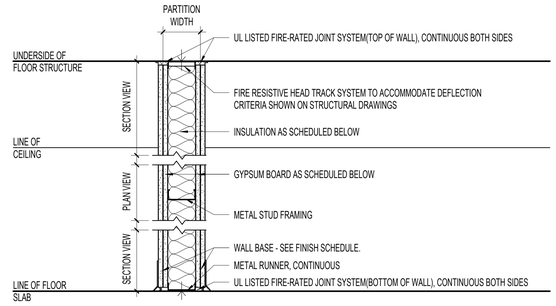
WALL TAG	GYPSUM BOARD/CEMENT BOARD	STUD WIDTH	PART. WIDTH	FIRE RATING	UL LISTING	STC RATING	REMARKS
B	(1) LAYER 5/8"	3-5/8"	4-1/4"	NOT RATED	-	44 MIN.	-
B1	(1) LAYER 5/8"	1-1/2"	2-1/8"	NOT RATED	-	-	-
B2	(1) LAYER 5/8"	7/8"	1-1/2"	NOT RATED	-	-	-

NON-RATED FURRING PARTITIONS AT CHASE PARTITIONS: SEE CHASE WIDTH AT PLANS. PROVIDE HORIZONTAL BRACING AS REQUIRED.



WALL TAG	GYPSUM BOARD	STUD WIDTH	PART. WIDTH	FIRE RATING	UL LISTING	STC RATING	REMARKS
E	(1) LAYER 5/8" (TYPE-X), EACH SIDE	3-5/8"	4-7/8"	NOT RATED	-	44 MIN.	-

NON-RATED PARTITIONS



WALL TAG	GYPSUM BOARD	STUD WIDTH	PART. WIDTH	FIRE RATING	UL LISTING	STC RATING	REMARKS
C	(2) LAYER 5/8" (TYPE-X), EACH SIDE, ON STEEL STUDS 16" O.C.	3-5/8"	6-1/8"	2 HR	U419	44 MIN.	3-1/2" FIBERGLASS INSULATION
D	(1) LAYER 5/8" (TYPE-X), EACH SIDE, ON STEEL STUDS 16" O.C.	3-5/8"	4-7/8"	1 HR	U419	44 MIN.	3-1/2" FIBERGLASS INSULATION

RATED PARTITIONS

GENERAL SHEET NOTES

1. PROVIDE CEMENT BOARD IN LIEU OF GYPSUM BOARD AT ALL LOCATIONS TO RECEIVE TILE. WHERE TILE DOES NOT EXTEND FULL HEIGHT, PROVIDE CEMENT BOARD ONLY BEHIND THE HEIGHT OF THE TILE.
2. GYPSUM BOARD SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE, U.N.O.
3. METAL STUD FRAMING SHALL EXTEND TO UNDERSIDE OF STRUCTURE ABOVE, U.N.O.

4 PARTITION TYPES

1 1/2" = 1'-0"

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN	05/29/2024
Revisions:	Date:

CONSULTANT

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Bancroft Project No. 23-135

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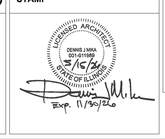


Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - PARTITION TYPES

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

FULLY SPRINKLERED

Location: BIRMINGHAM VAMC

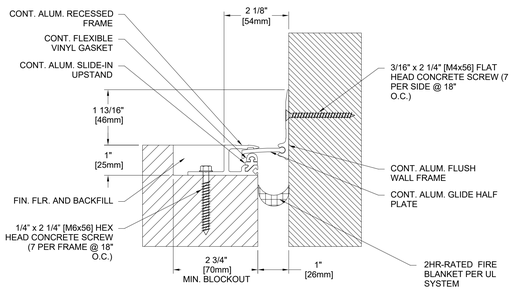
Issue Date: 05/15/2026

Checked: CR

Drawn: LD

Drawing Number: AE501

VA FORM 08-6231

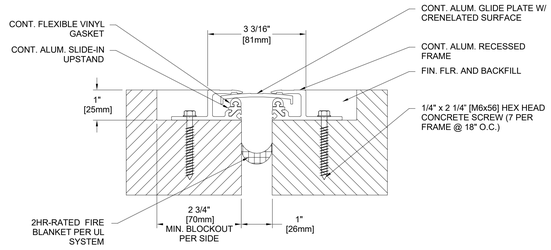


300-A02-025

JOINT WIDTH		MOVEMENT ± HORIZONTAL		VERTICAL	
US	mm	US	mm	US	mm
1"	25	1/8"	2	1/8"	3

NOTE:
TO DETERMINE BLOCKOUT DEPTH, DEDUCT THICKNESS OF THE FLOOR FINISH FROM FRAME HEIGHT

APPLICATION-
RECESSED FLOOR/WALL CONDITION
NO BUMP GLIDE PLATE SEISMIC SYSTEM



300-A01-025

JOINT WIDTH		MOVEMENT ± HORIZONTAL		VERTICAL	
US	mm	US	mm	US	mm
1"	25	1/2"	13	1/4"	6

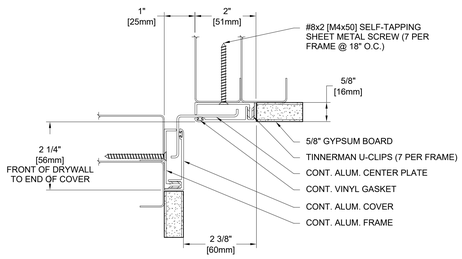
NOTE:
TO DETERMINE BLOCKOUT DEPTH, DEDUCT THICKNESS OF THE FLOOR FINISH FROM FRAME HEIGHT

APPLICATION-
RECESSED FLOOR/FLOOR CONDITION
NO BUMP GLIDE PLATE SEISMIC SYSTEM

1 SEISMIC JOINT COVER FLOOR/WALL (2HR RATED)

6" = 1'-0"

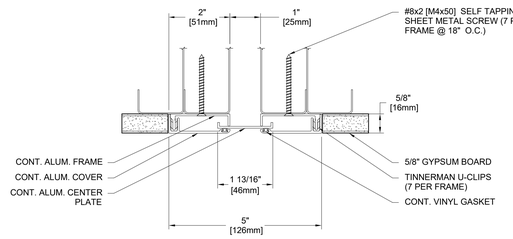
0 1" 2" 3" 4"



300-A09-025

JOINT WIDTH		MOVEMENT ± HORIZONTAL		VERTICAL	
US	mm	US	mm	US	mm
1"	25	1/4"	6	3/4"	19

APPLICATION-
GLIDE PLATE
WALL/CORNER-WALL/CEILING CONDITION



300-A07-025

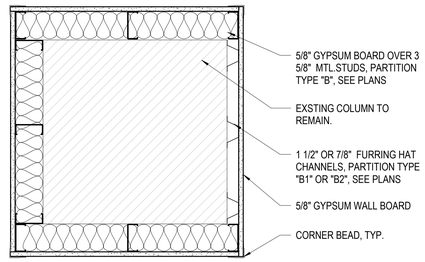
JOINT WIDTH		MOVEMENT ± HORIZONTAL		VERTICAL	
US	mm	US	mm	US	mm
1"	25	1/2"	13	1/4"	6

APPLICATION-
GLIDE PLATE
WALL/WALL, CEILING/CEILING
CONDITION

3 DETAIL - EXISTING COLUMN FURRING

1 1/2" = 1'-0"

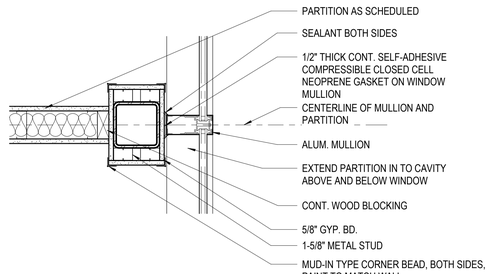
0 3" 6" 9"

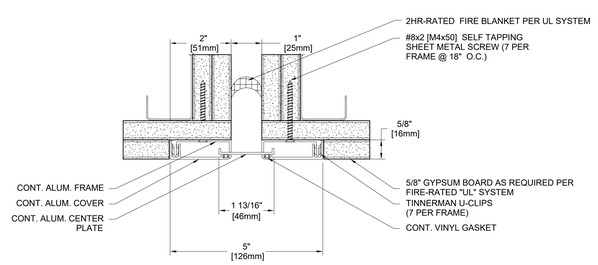


4 DETAIL MULLION WALL TERMINATION

1 1/2" = 1'-0"

0 3" 6" 9"





300-A07-025

JOINT WIDTH		MOVEMENT ± HORIZONTAL		VERTICAL	
US	mm	US	mm	US	mm
1"	25	1/2"	13	1/4"	6

APPLICATION-
GLIDE PLATE
WALL/WALL, CEILING/CEILING
CONDITION

2 SEISMIC JOINT COVER WALL/ CEILING (NON-RATED AND 2HR-RATED)

6" = 1'-0"

0 1" 2" 3" 4"

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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T: 847-952-9362
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Bancroft Project No. 23-135

STAMP

LICENSED ARCHITECT DENNIS J WEIX 001-011999 STATE OF ILLINOIS 5/15/26 EXPIRES: 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - DETAILS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

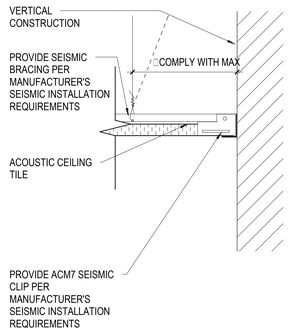
Drawn: LD

Project Number: 521-24-102

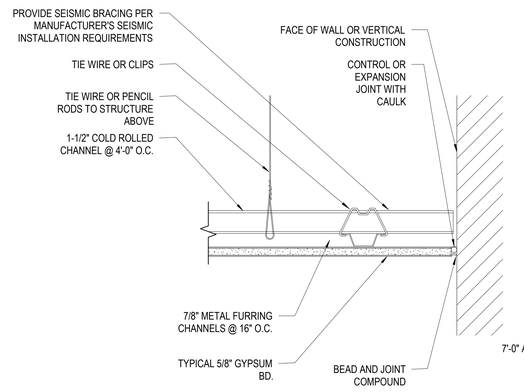
Building Number: #1

Drawing Number: AE511

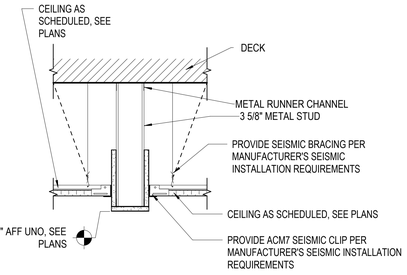
VA FORM 08-6231



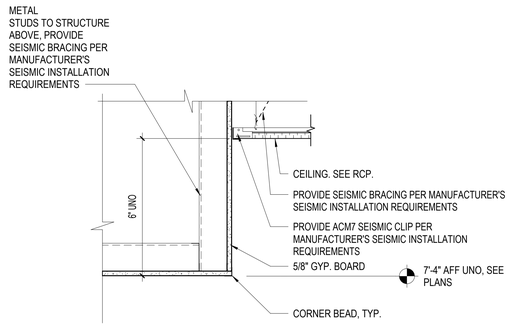
1 ACT CEILING AT DETAIL
3" = 1'-0"



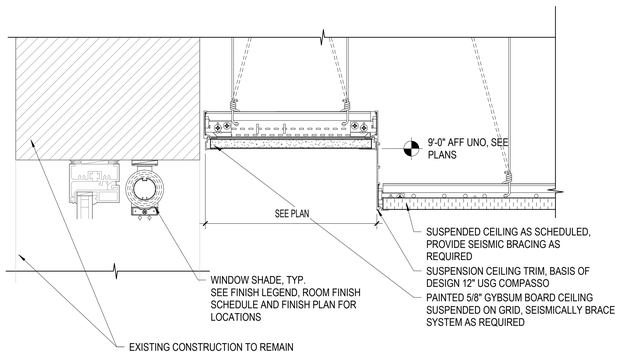
2 GYPSUM BOARD CEILING TYP.
3" = 1'-0"



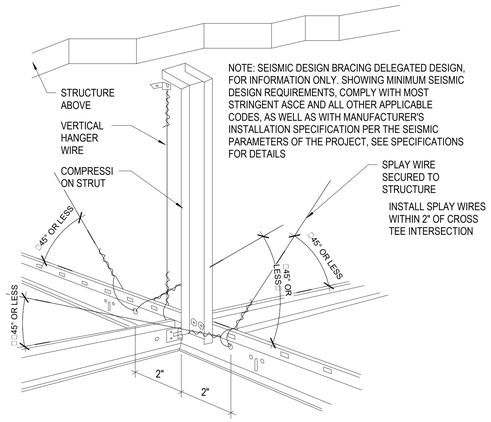
3 CEILING BULKHEAD DETAIL TYP.
1 1/2" = 1'-0"



4 SOFFIT TO ACT CEILING DETAIL
1 1/2" = 1'-0"



5 GYPSUM BOARD TRANSITION CEILING TYP.
3" = 1'-0"



6 SEISMIC CEILING DESIGN
NTS

GENERAL SHEET NOTES

KEYNOTES

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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VA CONTRACT NO. 36C24724C0036
Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J ARDA 001.013588 STATE OF ILLINOIS 5/15/26 Exp. 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - CEILING DETAILS

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

FULLY SPRINKLERED

Location: BIRMINGHAM VAMC

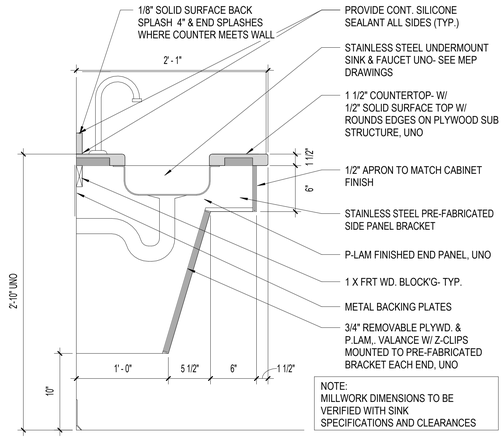
Issue Date: 05/15/2026

Checked: CR

Drawn: LD

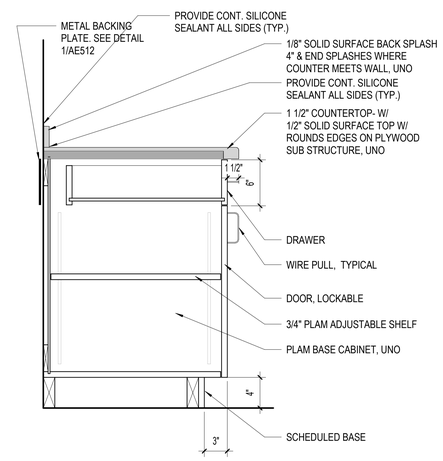
Drawing Number: AE531

VA FORM 08-6231



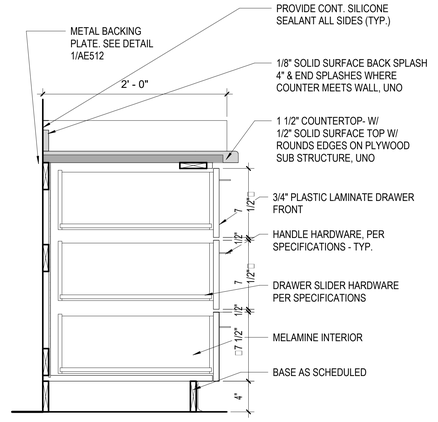
1 CASEWORK - ACCESSIBLE SINK CABINET

1 1/2" = 1'-0"



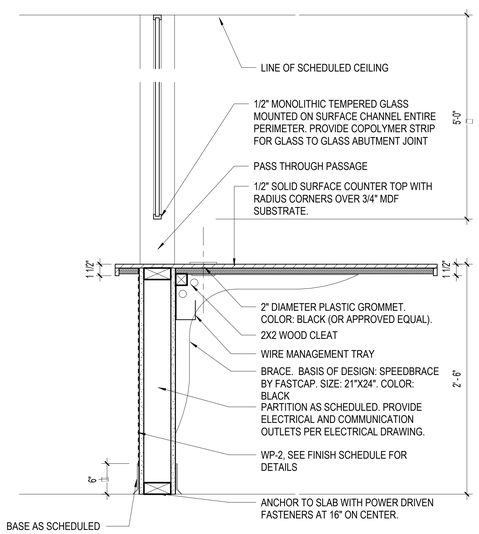
2 CASEWORK - BASE CABINET

1 1/2" = 1'-0"



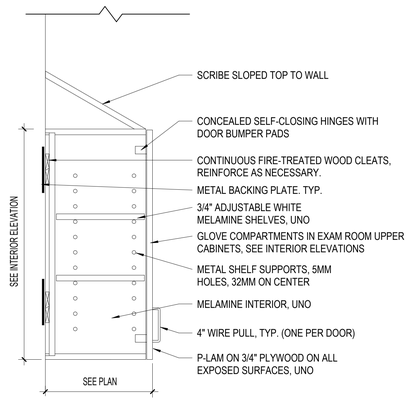
3 CASEWORK - BASE CABINET - EXAM ROOM, TYPICAL

1 1/2" = 1'-0"



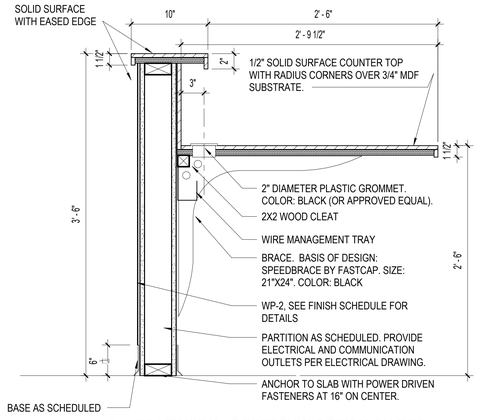
9 CASEWORK - RECEPTION DESK LOW TOP

1 1/2" = 1'-0"



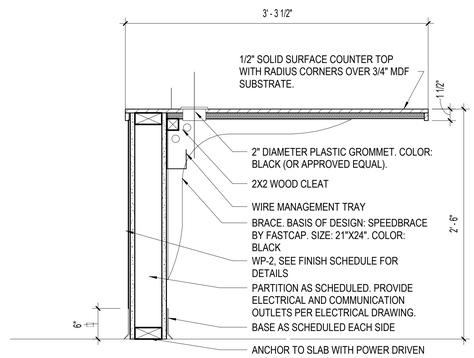
4 CASEWORK - UPPER CABINET

1 1/2" = 1'-0"



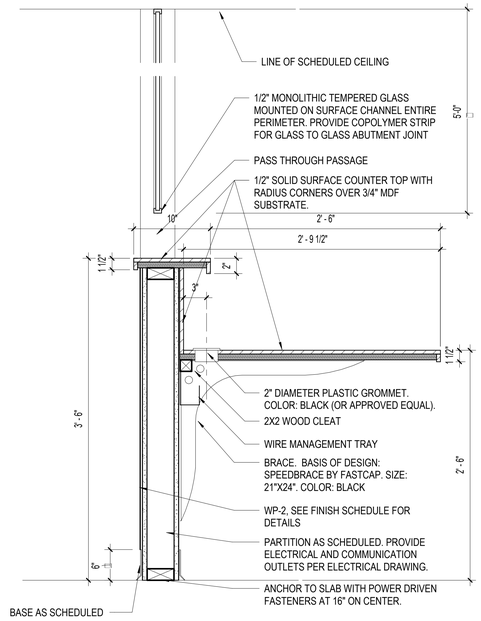
5 CASEWORK - RECEPTION DESK HIGH TOP

1 1/2" = 1'-0"



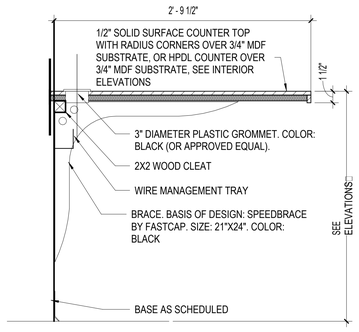
6 CASEWORK - RECEPTION DESK LOW TOP

1 1/2" = 1'-0"



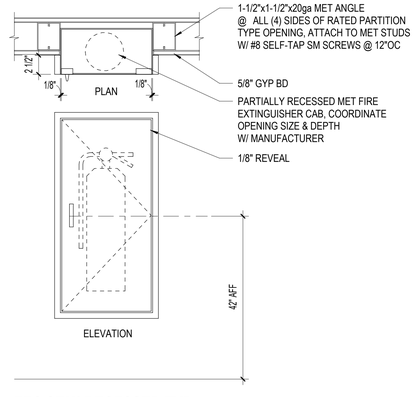
10 CASEWORK - RECEPTION DESK HIGH TOP

1 1/2" = 1'-0"



7 TYP COUNTERTOP SUPPORTED BY BRACKETS

1 1/2" = 1'-0"



8 FEC SEMI RECESSED TYP.

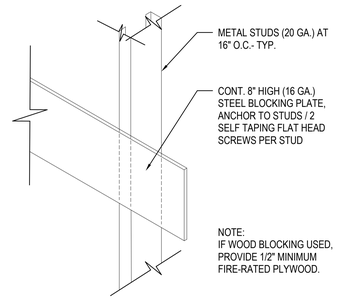
1 1/2" = 1'-0"

NOTE:
AT CASEWORK AT ALL EXAM ROOMS ONLY, BASIS OF DESIGN OR VA APPROVED EQUAL: MATCH HERMAN MILLAR COMPASS HEALTHCARE SYSTEM FINISHES - CORIAN COUNTER, DURAWRAP "CLEAR ON ASH" UPPER CABINETS.

GENERAL SHEET NOTES

KEYNOTES

PROVIDE 8" HIGH X 48" LONG X 16 GAUGE CONTINUOUS BACK-UP BLOCKING PLATES SECURELY ANCHORED WITH FLAT HEAD SCREWS OVER METAL STUDS BEHIND ALL TOILET ACCESSORIES, BASE CABINETS, WALL CABINETS, MILLWORK, SHELVING, VISUAL DISPLAY BOARDS, WALL/ HANDRAIL (NEW WALLS) AND ALL OTHER SURFACE MOUNTED ITEMS.



ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN	05/29/2024
Revisions:	Date:

CONSULTANT

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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J NIKA 001-011959 STATE OF ILLINOIS EXPIRES 11/30/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - CASEWORK AND DETAILS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

Drawn: LD

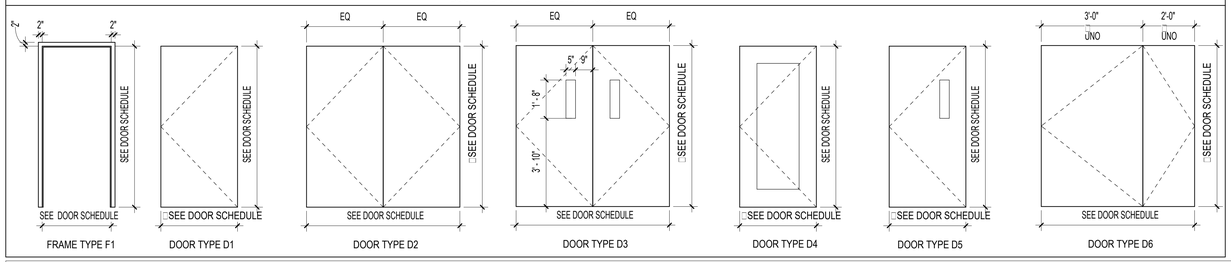
Project Number: 521-24-102

Building Number: #1

Drawing Number: AE541

VA FORM 08-6231

DOOR AND FRAME TYPE ELEVATIONS



FRAME TYPE F1 | DOOR TYPE D1 | DOOR TYPE D2 | DOOR TYPE D3 | DOOR TYPE D4 | DOOR TYPE D5 | DOOR TYPE D6

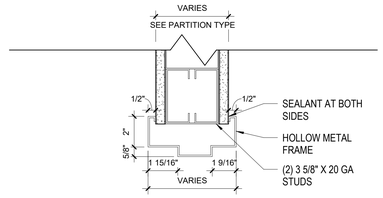
DOOR SCHEDULE

GENERAL NOTES:

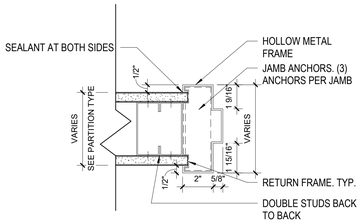
A.SEE SHEET A001 FOR SYMBOLS AND ABBREVIATIONS.
B.COORDINATE ALL DOOR HARDWARE WITH VA/COR PRIOR ORDERING.
C.SEE SPECIFICATIONS FOR DOOR GLAZING TYPES.
D.SEE SPECIFICATIONS FOR DOOR HARDWARE TYPES.
E.FIELD VERIFY ALL DOOR OPENINGS PRIOR ORDERING.
F.MANUFACTURER EGGERS INDUSTRIES OR VA APPROVED EQUAL. STAIN TO MATCH WILSONART FUSION MAPLE LAMINATE.
G.ALL DOOR HARDWARE TO BE ADA-COMPLIANT....

NOTES:

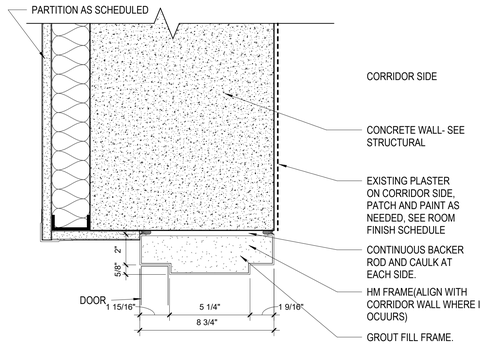
MARK	ROOM NAME	ROOM NUMBER	DOOR					DOOR ELEVATION	DOOR GLAZING	FRAME MATERIAL	FRAME				HARDWARE SET	FIRE RATING	NOTES
			WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE				MATERIAL	ELEVATION	HEAD	JAMB			
270A	CORR	-	6' - 0"	7' - 0"	1 3/4"	WD	D3	35	MG-1	HM	HM	F1	1/AE601	2/AE601	8D	90 MIN	
270B	CORR	RCC272R	6' - 0"	7' - 0"	1 3/4"	WD	D3	35	MG-1	HM	HM	F1	1/AE601	2/AE601	13		
273A	CORR	RCC273R	3' - 6"	7' - 0"	1 3/4"	WD	EXISTING TO REMAIN	59		HM	HM	EXISTING RO REMAIN	1/AE601	2/AE601	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN, REPAINT DOOR AND FRAME TO MATCH NEW
273B	IT CLOSET EXST	2207	2' - 0"	7' - 0"	1 3/4"	WD	EXISTING TO REMAIN	63		HM	HM	EXISTING RO REMAIN	1/AE601	2/AE601	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN, REPAINT DOOR AND FRAME TO MATCH NEW
273C	CORR	RCC273R	6' - 0"	7' - 0"	1 3/4"	WD	D2	75		HM	F1	5/AE601	6/AE601	SH-10A			
273D			2' - 0"	7' - 0"	1 3/4"	WD	EXISTING TO REMAIN	57		HM	HM	EXISTING RO REMAIN	1/AE601	2/AE601	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN, REPAINT DOOR AND FRAME TO MATCH NEW
284A	CORR	-	3' - 6"	7' - 0"	1 3/4"	WD	D1	84	MG-1	HM	HM	F1	1/AE601	2/AE601	4K	90 MIN	
284B	CORR	RCC284R	3' - 6"	7' - 0"	1 3/4"	WD	D1	84	MG-1	HM	HM	F1	1/AE601	2/AE601	4K	90 MIN	
284C	CORR	RCC276R	6' - 0"	7' - 0"	1 3/4"	WD	D3	35	MG-1	HM	HM	F1	1/AE601	2/AE601	13		
2201A	CORR	RCC277R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3E		
2201B	CORR	RCC277R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3E		
2202	CORR	RCC272R	5' - 0"	7' - 0"	1 3/4"	WD	D6	90			HM	F1			MH6A		
2203	CORR	RCC277R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3G		
2204	EQUIP EXST	2204	1' - 6"	7' - 0"	1 3/4"	WD	E	55		HM	HM	EXISTING RO REMAIN	1/AE601	2/AE601	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN, REPAINT DOOR AND FRAME TO MATCH NEW
2205	STOR	2205	2' - 6"	7' - 0"	1 3/4"	WD	EXISTING TO REMAIN	56		HM	HM	EXISTING RO REMAIN	1/AE601	2/AE601	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN, REPAINT DOOR AND FRAME TO MATCH NEW
2206	ELEC EXST	2206	3' - 0"	7' - 0"	1 3/4"	WD	EXISTING TO REMAIN	33		HM	HM	EXISTING RO REMAIN	1/AE601	2/AE601	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN, REPAINT DOOR AND FRAME TO MATCH NEW
2207	CORR	RCC274R	3' - 0"	7' - 0"	1 3/4"	WD	EXISTING TO REMAIN	33		HM	HM	EXISTING RO REMAIN	1/AE601	2/AE601	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN, REPAINT DOOR AND FRAME TO MATCH NEW
2208	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	2G		
2209	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2210	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2211	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2212	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3G		
2213	CORR	RCC272R	6' - 0"	7' - 0"	1 3/4"	WD	D2	35		HM	HM	F1	1/AE601	2/AE601	SH-3C		
2214	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3G		
2215	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2216	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2217	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2219	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	85		HM	HM	F1	3/AE601	4/AE601	1L		
2220	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	85		HM	HM	F1	3/AE601	4/AE601	1L		
2221	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	85		HM	HM	F1	3/AE601	4/AE601	1L		
2222	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	85		HM	HM	F1	3/AE601	4/AE601	1L		
2223	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	85		HM	HM	F1	3/AE601	4/AE601	1L		
2224	CORR	RCC272R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2225	CORR	RCC270R	3' - 0"	7' - 0"	1 3/4"	WD	D4	33	MG-1	HM	HM	F1	1/AE601	2/AE601	4K		
2226	CORR	RCC271R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	2G		
2227	CORR	RCC271R	3' - 0"	7' - 0"	1 3/4"	WD	D	33		HM	HM	F1	1/AE601	2/AE601	2G		
2228	CORR	RCC275R	6' - 0"	7' - 0"	1 3/4"	HM	D2	35		HM	HM	F1	1/AE601	2/AE601	11C	45 MIN	
2229	BREAK/ LOCKERS	2229	3' - 0"	7' - 0"	1 3/4"	WD	D1	85		HM	HM	F1	3/AE601	4/AE601	SH-4		
2801	CORR	RCC283R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2802	CORR	RCC283R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2803	OPH EXAM	2803	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2804	OPH EXAM	2804	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2805	CORR	RCC282R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2806	CORR	RCC282R	5' - 0"	7' - 0"	1 3/4"	WD	D6	90			HM	F1			MH6A		
2807	CORR	RCC282R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2808	CORR	RCC281R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2809	CORR	RCC281R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2810	CORR	RCC282R	3' - 6"	7' - 0"	1 3/4"	WD	D1	65		HM	HM	F1	1/AE601	2/AE601	2G		
2811	CORR	RCC282R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	5B		
2813	CORR	RCC280R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3G		
2814	CORR	RCC280R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3G		
2815	CORR	RCC280R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3G		
2816	CORR	RCC280R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	3G		
2817	OPH STOR	2817	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	5B		
2818	CORR	RCC278R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	5D		
2820	OPH EXAM	2820	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2821	CORR	RCC278R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2822	CORR	RCC278R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2823	CORR	RCC278R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2824	CORR	RCC278R	3' - 0"	7' - 0"	1 3/4"	WD	D1	33		HM	HM	F1	1/AE601	2/AE601	1L		
2825	CORR	RCC278R	5' - 0"	7' - 0"	1 3/4"	WD	D6	90			HM	F1			MH6A		



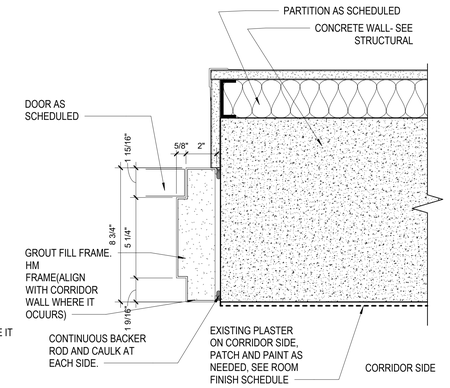
1 TYPICAL HEADER AT STUD WALL
3" = 1'-0"



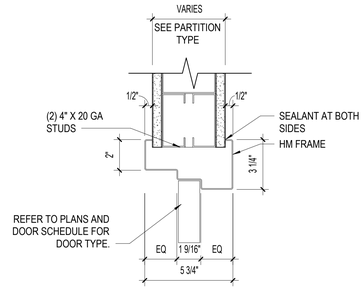
2 TYPICAL JAMB AT STUD WALL
3" = 1'-0"



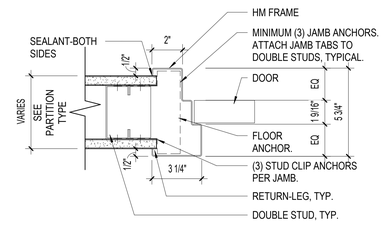
3 TYPICAL HEADER AT SHEAR WALL
3" = 1'-0"



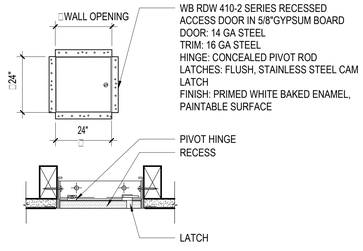
4 TYPICAL JAMB AT SHEAR WALL
3" = 1'-0"



5 DOUBLE EGRESS HEADER
3" = 1'-0"



6 DOUBLE EGRESS JAMB
3" = 1'-0"



7 ACCESS DOOR
3" = 1'-0"

ISSUED FOR BID	05/15/2026
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95% CONSTRUCTION DOCUMENTS	01/30/2026
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65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

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Bancroft Project No. 23-135

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DENNIS J KRA
001.010
LICENSED ARCHITECT
5/15/26
STATE OF ILLINOIS
Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - DOOR SCHEDULE AND DETAILS

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

FULLY SPRINKLERED

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

Drawn: LD

Drawing Number: AE601

VA FORM 08-6231

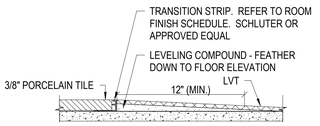
GENERAL SHEET NOTES

A. SEE AF601 FOR FINISH LEGEND AND ROOM FINISH SCHEDULE.
B. COORDINATE ALL FINISHES AND LOCATIONS WITH VA.
C. PROVIDE WINDOW BLAST PROTECTION GLAZING FILM AT EXISTING EXTERIOR WINDOW GLAZING WITHIN SCOPE OF WORK PER PSRD RECOMMENDATION. COORDINATE SCOPE OF WORK WITH PSRD WAIVER FORM/S AND THE VA/COR.

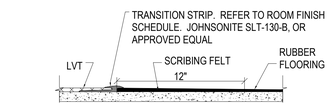
LEGEND

LVT-2

LVT-3



TS-1



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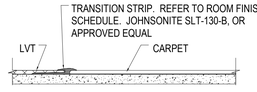
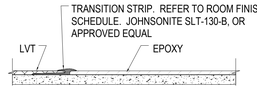


TS-3



TS-4

N

1 **FINISH PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS**

1/8" = 1'-0"

0 4" 8" 16"

ISSUED FOR BID	05/15/2026
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LICENSED ARCHITECT DENNIS J NOVA 001-010989 STATE OF ILLINOIS 3/16/26 Exp. 11/30/2026

Office of Construction and Facilities Management

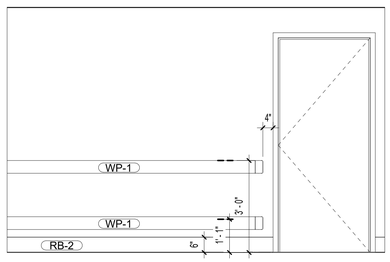
U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - FINISH PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director	FULLY SPRINKLERED	Location: BIRMINGHAM VAMC	Drawing Number: AF102
		Issue Date: 05/15/2026 / Checked: CR / Drawn: LD	

VA FORM 08-6231

ROOM FINISH LEGEND-PRODUCT BASIS OF DESIGN OR VA APPROVED EQUAL					
TAG	MATERIAL	MNFR	PRODUCT	STYLE	NOTES
CASEWORK					
HPDL-1	HIGH-PRESSURE DECORATIVE LAMNATE	WILSONART	FUSION MAPLE	7909-60, MATTE	
PL-1	PLASTIC LAMINATE	WILSONART	FUSION MAPLE	7909-60, MATTE	
PL-2	PLASTIC LAMINATE	HERMAN MILLER	DURAWRAP	CLEAR ON ASH	HERMAN MILLER COMPASS SYSTEM BASIS OF DESIGN OR VA APPROVED EQUAL
SS-1	SOLID SURFACE	CORIAN		SPARKLING WHITE	
CEILING					
AT-1	CEILING TILE	ARMSTRONG	SQUARE LAY-IN, 24" X 24", GRID PRELUDE 15/16"	ULTIMA HEALTH ZONE AIR ASSURE	CORRIDORS, EXAM ROOMS
AT-2	CEILING TILE	ARMSTRONG	CEILING CLOUD, 24" X 24", GRID PRELUDE 15/16"	#756 FISSURED SQUARE LAY-IN	OFFICES, BREAK ROOM
P-1	PAINT	SHERWIN WILLIAMS	PROMAR 200 NO VOC	SW 7005 PURE WHITE, FLAT	AT GWB CEILINGS
DOORS					
DR-1	WOOD FLUSH DOOR	EGGERS INDUSTRIES	MATCH WILSONART FUSION MAPLE LAMINATE	LIGHT MAPLE 120	COORDINATE WOOD SPECIES WITH VA PRIOR ORDERING
EXPANSION JOINTS					
EXJ-1	EXPANSION JOINT COVER 1"	INPRO	FLOOR/CEILING/WALL EXPANSION JOINT SYSTEM 1", MOVEMENT >50%	SELECTION FROM MANUFACTURER'S STANDARD ANODIZED FINISH	
FLOORING					
CPT-1	CARPET TILE	BENTLEY CARPET	COIN UP II #6ACIT6	PING 400058, 18" X 36"	MONOLITHIC INSTALLATION, RECEPTION AREA
EPX-1	EPOXY FLOORING	STONEHARD	STONETEC DECORATIVE FLAKE FINISH	FLOORING SYSTEM, GLACIER PEAK	
LVT-2	LUXURY VINYL TILE	INTERFACE	FRESCO VALLEY - RIDGE, 19" X 19", 4.5 MM THICKNESS	AO2305 MUSHROOM	MONOLITHIC INSTALLATION, CORRIDOR
LVT-3	LUXURY VINYL TILE	INTERFACE	FRESCO VALLEY - CLIFF, 9.8" X 39", 4.5 MM THICKNESS	AO2404 ALABASTER	ASHLAR INSTALLATION, CORRIDOR BORDER
LVT-4	LUXURY VINYL TILE	INTERFACE	NATIVE FABRIC, 19" X 19"	A00801 FLAX	MONOLITHIC INSTALLATION, EXAM ROOMS/OFFICES
PT-1	PORCELAIN TILE	DAL TILE	COHESION, 12" X 24"	BEIGE CO22 MATTE FINISH, GROUT LATICRETE #90 LIGHT PEWTER, SCHLUTER TRIM AT OUTSIDE CORNERS	INSTALL AT FLOOR: ASHLAR/BRICK; INSTALL AT WALL: HORIZONTAL/STRAIGHT STACK, FULL HEIGHT AT WET WALL, 4'-0" AT OTHER WALLS, 3" X 24" WAINSCOT TOP
RB-2	RUBBER BASE	ROPPE	700 SERIES WALL BASE WITH STANDARD TOE, 4" AND 6"	178 PEWTER	MITER OUTSIDE AND INSIDE COLORS, 6" AT CORRIDORS, WAITING, DILATION ROOMS, 4" AT EXAM AND SUPPORT SPACES
WALLS					
MG-1	MONOLITHIC GLASS				SEE SPECIFICATIONS
P-2	PAINT	SHERWIN WILLIAMS	PROMAR 200 NO VOC	SW 7010 WHITE DUCK, SATIN AT WALLS, EGGSHELL (G3) AT FRAME FINISH	CORRIDORS
P-3	PAINT	SHERWIN WILLIAMS	PROMAR 200 NO VOC	SW 7542 NATUREL, SATIN AT WALLS, EGGSHELL (G3) AT FRAME FINISH	EXAM ROOMS
P-4	PAINT	SHERWIN WILLIAMS	PROMAR 200 NO VOC	SW 9148 SMOKY AZURITE, SATIN	
P-5	PAINT	SHERWIN WILLIAMS	PROMAR 200 NO VOC	SW 7613 AQUA SPHERE, SATIN	
TK-1	WALL-MOUNTED, FRAMELESS TACKBOARD	GHENT	WRAPPED FABRIC, FRAMELESS, CUSTOM SIZE	BEIGE	
WP-1	WALL PROTECTION HANDRAIL/BUMPER	INPRO	1300 SERIES, 0.080 THICKNESS, 4" HIGH, 3130 SERIES, OVAL TOP SURFACE	#0154 CLAM SHELL	
WP-2	WALL PROTECTION	MOMENTUM/EYKON	P3Tec	P3T-60230 CHILLIN' OUT	ACCENT AT WAITING/DILATION
WP-3	WALL PROTECTION	MOMENTUM/EYKON	P3Tec	P3T-60232 TOPAZ TEAL	ACCENT AT WAITING/DILATION
WINDOW TREATMENTS					
MS-1	WINDOW SHADES	MECHOSHADE	THERMOVEIL, 1700 SERIES, FABRIC OPENNESS 1%, FLAME RETARDANT	1716 EGGSHELL, MECHO/5 POCKET DRIVE-END BRACKET	

NOTES:
1. EXPANSION JOINT FLOOR - BASIS OF DESIGN OR VA APPROVED EQUAL - INPRO, 300 SERIES RECESSED MOUNT FLOOR EXPANSION JOINT COVER AND 2 HR FIRE-RATED JOINT FILLER, SEISMIC MOVEMENT 50% +/-, 1 INCH
2. EXPANSION JOINT WALL - BASIS OF DESIGN OR VA APPROVED EQUAL - INPRO, 300 SERIES GLIDE PLATE WALL AND CEILING EXPANSION JOINT COVER, NON-RATED AND 2 HR FIRE-RATED JOINT FILLER, SEISMIC MOVEMENT 50% +/-, 1 INCH
3. EXPANSION JOINT CEILING - BASIS OF DESIGN OR VA APPROVED EQUAL - INPRO, 300 SERIES GLIDE PLATE WALL AND CEILING EXPANSION JOINT COVER, NON-RATED, SEISMIC MOVEMENT 50% +/-, 1 INCH



1 **WALL PROTECTION MOUNTING HEIGHT** TYPICAL AT ALL LOCATIONS SHOWN ON FINISH PLAN
1/2" = 1'-0"
0 1' 2' 4'

ROOM FINISH SCHEDULE

NOTES:

1. ALL INTERIOR EXISTING PLASTER WALLS TO REMAIN TO BE PATCHED AND PAINTED AS SCHEDULED.
2. ALL CEILING TILE TO BE INSTALLED AT 8'-0" AFF U.N.O. ALL GWB CEILING TO BE INSTALLED AT 7'-4" AFF U.N.O. ALL GWB CEILINGS. BULKHEADS, SOFFITS TO BE PAINTED WHITE(P-1) U.N.O.
3. ALL CEMENT BOARD TO BE INSTALLED AT LOCATIONS TO RECEIVE TILE FINISH ONLY. WHERE TILE FINISH IS NOT SCHEDULED AT FULL-HEIGHT PROVIDE CEMENT BOARD ONLY BEHIND TILE FINISH. SEE INTERIOR ELEVATIONS FOR ADDITIONAL SCOPE OF WORK.

If	ROOM NAME	FLOOR	BASE	WALLS								CEILING		REMARKS
				NORTH		WEST		SOUTH		EAST				
		FINISH	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	SUBSTRATE	FINISH	TYPE	FINISH	
2200	WAITING AREA	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE/GWB	AT-1/P-1	
2201	RECEPTION/ CHECK IN/ CHECK OUT	CPT-1	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-2	
2202	OPT BARIATRIC EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2203	OPT OFFICE	LVT-4	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-2	
2205	STOR	LVT-2/LVT-3	RB-2	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	CEILING TILE	AT-1	
2208	TOILET STAFF	PT-1	PT-1	CEMENT.BOARD	PT-1/P-2	CEMENT.BOARD	PT-1/P-2	CEMENT.BOARD	PT-1/P-2	CEMENT.BOARD	PT-1	CEILING TILE	AT-2	SEE INTERIOR ELEVATIONS FOR P-2 FINISH LOCATIONS
2209	OPT EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-5	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2210	OPT EXAM STUDENT	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2211	OPT EXAM STUDENT	LVT-4	RB-2	GWB	P-3	GWB	P-5	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2212	OPT OFFICE	LVT-4	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-5	CEILING TILE	AT-1	
2213	STOR	LVT-2/LVT-3	RB-2	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	CEILING TILE	AT-1	
2214	OPT OFFICE CHIEF	LVT-4	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-5	CEILING TILE	AT-1	
2215	OPT EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-5	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2216	OPT EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-5	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2217	OPT EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-5	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2218	OPT DILATION/ WAITING	LVT-2/LVT-3	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	WP-3	CEILING TILE	AT-1	
2219	OPT EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2220	OPT IMAGING	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2221	OPT IMAGING	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2222	OPT TECH	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2223	OPT TECH	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2224	OPT TECH	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2225	OPTIC SHOP	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-5	CEILING TILE	AT-1	
2226	TOILET PUBLIC	PT-1	PT-1	CEMENT.BOARD	PT-1	CEMENT.BOARD	PT-1	CEMENT.BOARD	PT-1/P-2	CEMENT.BOARD	PT-1/P-2	CEILING TILE	AT-2	SEE INTERIOR ELEVATIONS FOR P-2 FINISH LOCATIONS
2227	TOILET PUBLIC	PT-1	PT-1	CEMENT.BOARD	PT-1/P-2	CEMENT.BOARD	PT-1	CEMENT.BOARD	PT-1	CEMENT.BOARD	PT-1/P-2	CEILING TILE	AT-2	SEE INTERIOR ELEVATIONS FOR P-2 FINISH LOCATIONS
2228	MECHANICAL ROOM	EPX-1	RB-2	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	EXPOSED	P-1	
2229	BREAK/ LOCKERS	LVT-4	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-2	
2801	OPH EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-4	CEILING TILE	AT-1	
2802	OPH EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-4	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2803	OPH EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-4	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2804	OPH EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-4	CEILING TILE	AT-1	
2805	OPH IMAGING	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-4	GWB	P-3	CEILING TILE	AT-1	
2806	OPH IMAGING	LVT-4	RB-2	GWB	P-4	GWB	P-3	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2807	OPH EXAM	LVT-4	RB-2	GWB	P-4	GWB	P-3	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2808	OPH EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-3	GWB	P-4	CEILING TILE	AT-1	
2809	OPH EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-4	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2810	TOILET STAFF	PT-1	PT-1	CEMENT.BOARD	PT-1/P-2	CEMENT.BOARD	PT-1/P-2	CEMENT.BOARD	PT-1/P-2	CEMENT.BOARD	PT-1	CEILING TILE	AT-2	SEE INTERIOR ELEVATIONS FOR P-2 FINISH LOCATIONS
2811	STOR	LVT-4	RB-2	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	CEILING TILE	AT-2	
2812	OPH WORK AREA	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
2813	OPH OFFICE	LVT-4	RB-2	GWB	P-2	GWB	P-4	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
2814	OPH OFFICE	LVT-4	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-4	CEILING TILE	AT-1	
2815	OPH OFFICE	LVT-4	RB-2	GWB	P-2	GWB	P-4	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
2816	OPH OFFICE	LVT-4	RB-2	GWB	P-2	GWB	P-2	GWB	P-3	GWB	P-4	CEILING TILE	AT-1	
2817	OPH STOR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-2	
2818	HAC	EPX-1	RB-2	GWB	PT-1	GWB	PT-1	GWB	PT-1	GWB	PT-1	CEILING TILE	AT-2	
2819	OPH WORK AREA	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-4	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
2820	OPH EXAM	LVT-4	RB-2	GWB	P-4	GWB	P-3	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2821	OPH IMAGING	LVT-4	RB-2	GWB	P-4	GWB	P-3	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2822	OPH IMAGING	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-4	GWB	P-3	CEILING TILE	AT-1	
2823	OPH EXAM	LVT-4	RB-2	GWB	P-4	GWB	P-3	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2824	OPH EXAM	LVT-4	RB-2	GWB	P-3	GWB	P-3	GWB	P-4	GWB	P-3	CEILING TILE	AT-1	
2825	OPH EXAM	LVT-4	RB-2	GWB	P-4	GWB	P-3	GWB	P-3	GWB	P-3	CEILING TILE	AT-1	
2826	OPH WAITING	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	WP-2	GWB	P-2	CEILING TILE	AT-1	
2827	OPH DILATION	LVT-2/LVT-3	RB-2	GWB	WP-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC270R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC271R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC272R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC273R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC274R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC275R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC276R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC277R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC278R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC279R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC280R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC281R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC282R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC283R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	
RCC284R	CORR	LVT-2/LVT-3	RB-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	CEILING TILE	AT-1	

GENERAL SHEET NOTES

A. GENERAL NOTES: REVIEW ELEVATIONS FOR LOCATIONS OF FINISH MATERIALS. SKIM COAT ALL WALLS TO REMAIN WHERE EXISTING FINISHES ARE REMOVED. LEAVE WALLS SMOOTH FOR INSTALLATION OF NEW FINISHES.
B. PROVIDE CEMENTITIOUS BOARD AT ALL WET WALL LOCATIONS.
C. ROOM FINISH SCHEDULE DOES NOT SHOW EXSITING PLASTER WALL LOCATIONS. COORDINATE PATCHING AND PAINTING EXISTING PLASTER TO REMAIN WITH ALL PLANS.
D. MATCH EXISTING PLASTER THICKNESS AND COMPOSITION WHERE PATCH AND FILL IN WORK IS REQUIRED. PREP ALL EXISTING AND NEW PLASTER, AS REQUIRED, TO RECEIVE NEW PAINT FINISH AS SCHEDULED.

KEYNOTES

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

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Bancroft Project No. 23-135

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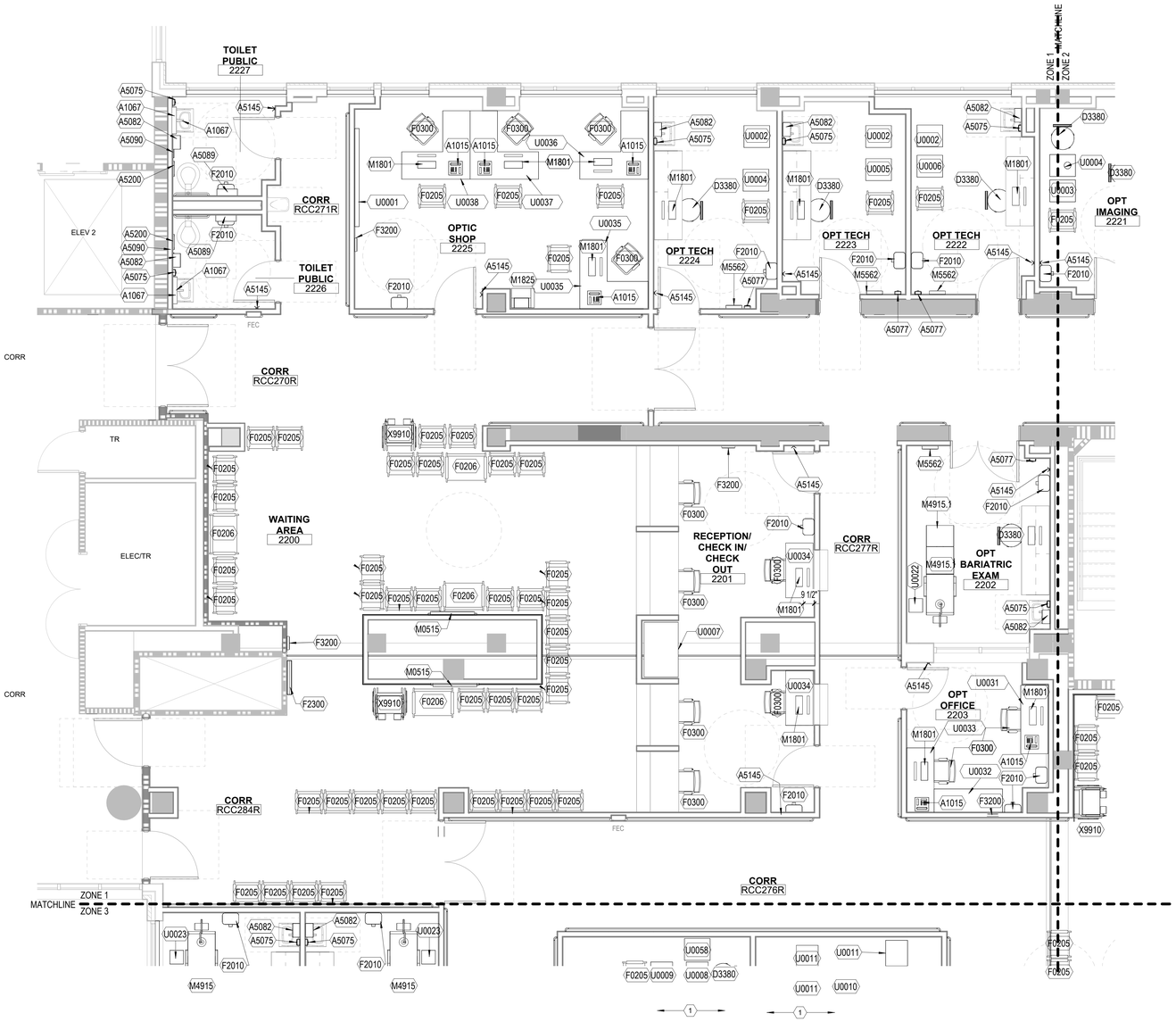
LICENSED ARCHITECT
STATE OF ILLINOIS
5/15/26
EXP. 11/30/26

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

Drawing Title: ARCHITECTURAL - FINISH LEGEND AND SCHEDULE
Approved: Project Director
Phase: ISSUED FOR BID
FULLY SPRINKLERED
Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Location: BIRMINGHAM VAMC
Issue Date: 05/15/2026
Checked: CR
Drawn: LD
Project Number: 521-24-102
Building Number: #1
Drawing Number: AF601

VA FORM 08-6231



1 **EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1**

1/4" = 1'-0"

0 2' 4' 8'

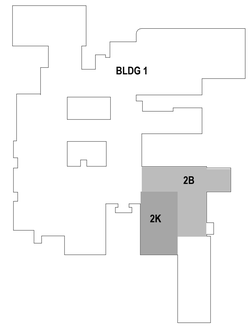
GENERAL SHEET NOTES

A. COORDINATE ALL SPACIAL EQUIPMENT AND FFE ITEMS WITH THE VA.

VV-VA FURNISHED, VA INSTALLED
CC-CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
VC-VA FURNISHED, CONTRACTOR INSTALLED

KEYNOTES

1 COORDINATE EQUIPMENT AND FURNITURE WITH VA PRIOR CONSTRUCTION IN THIS ROOM.



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

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BANCROFT ARCHITECTS + ENGINEERS
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Bancroft Project No. 23-135

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LICENSED ARCHITECT DENNIS J MIKA 001-015589 5/15/26 STATE OF ILLINOIS
Exp. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

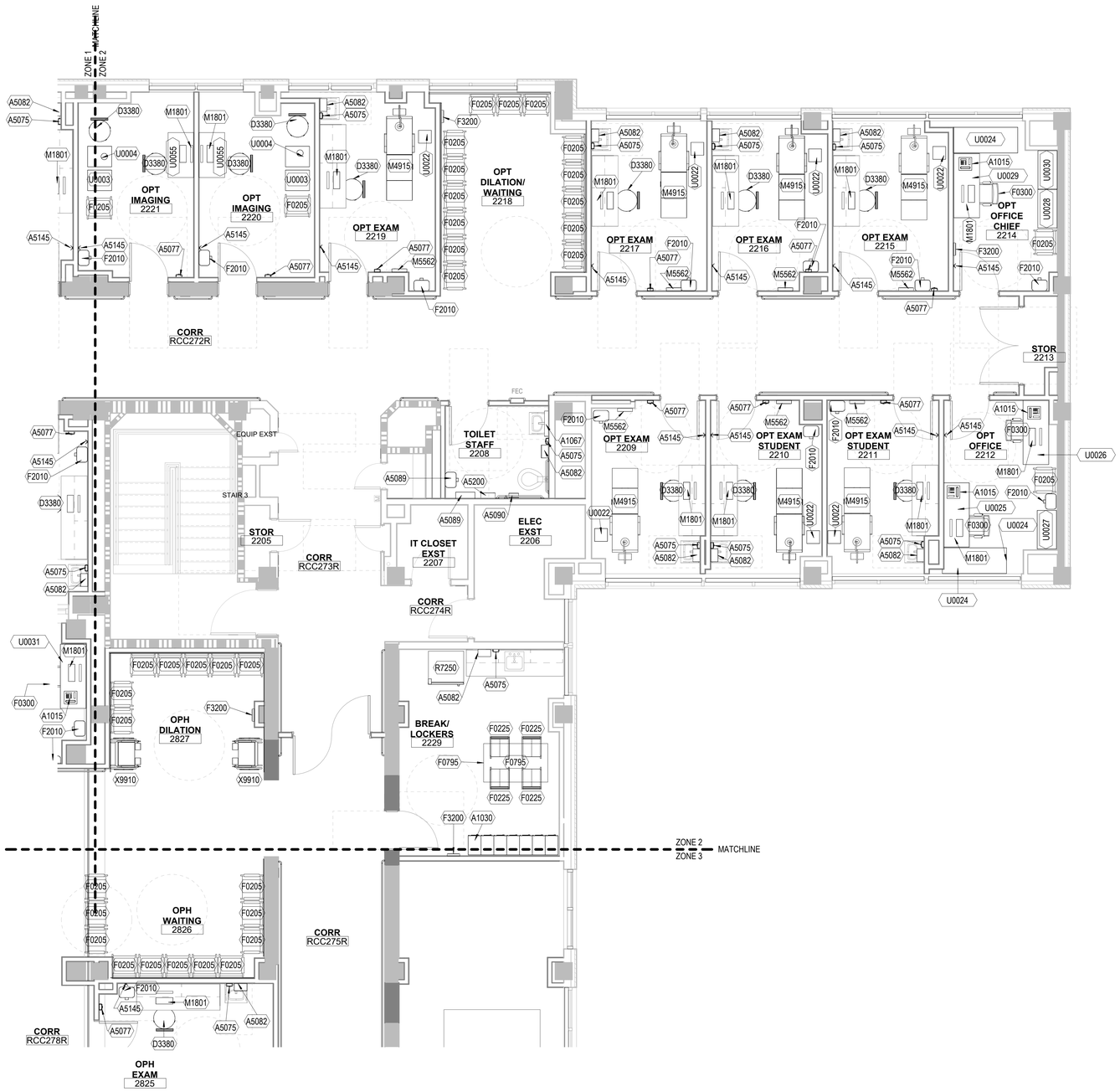
Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: AQ102.1

VA FORM 08-6231



1 EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2

1/4" = 1'-0"

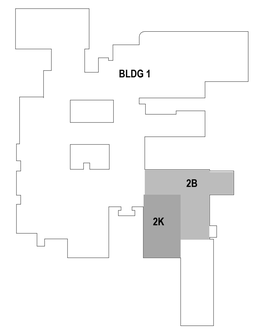
0 2' 4' 8'

GENERAL SHEET NOTES

A. COORDINATE ALL SPACIAL EQUIPMENT AND FFE ITEMS WITH THE VA.

VV-VA FURNISHED, VA INSTALLED
CC-CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
VC-VA FURNISHED, CONTRACTOR INSTALLED

KEYNOTES



KEYPLAN

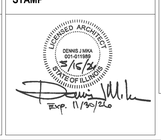
ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

1471 E Business Center Dr,
Mount Prospect, IL 60056
T: 847-952-9362
www.bancroft-ae.com
BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036
Bancroft Project No. 23-135

STAMP

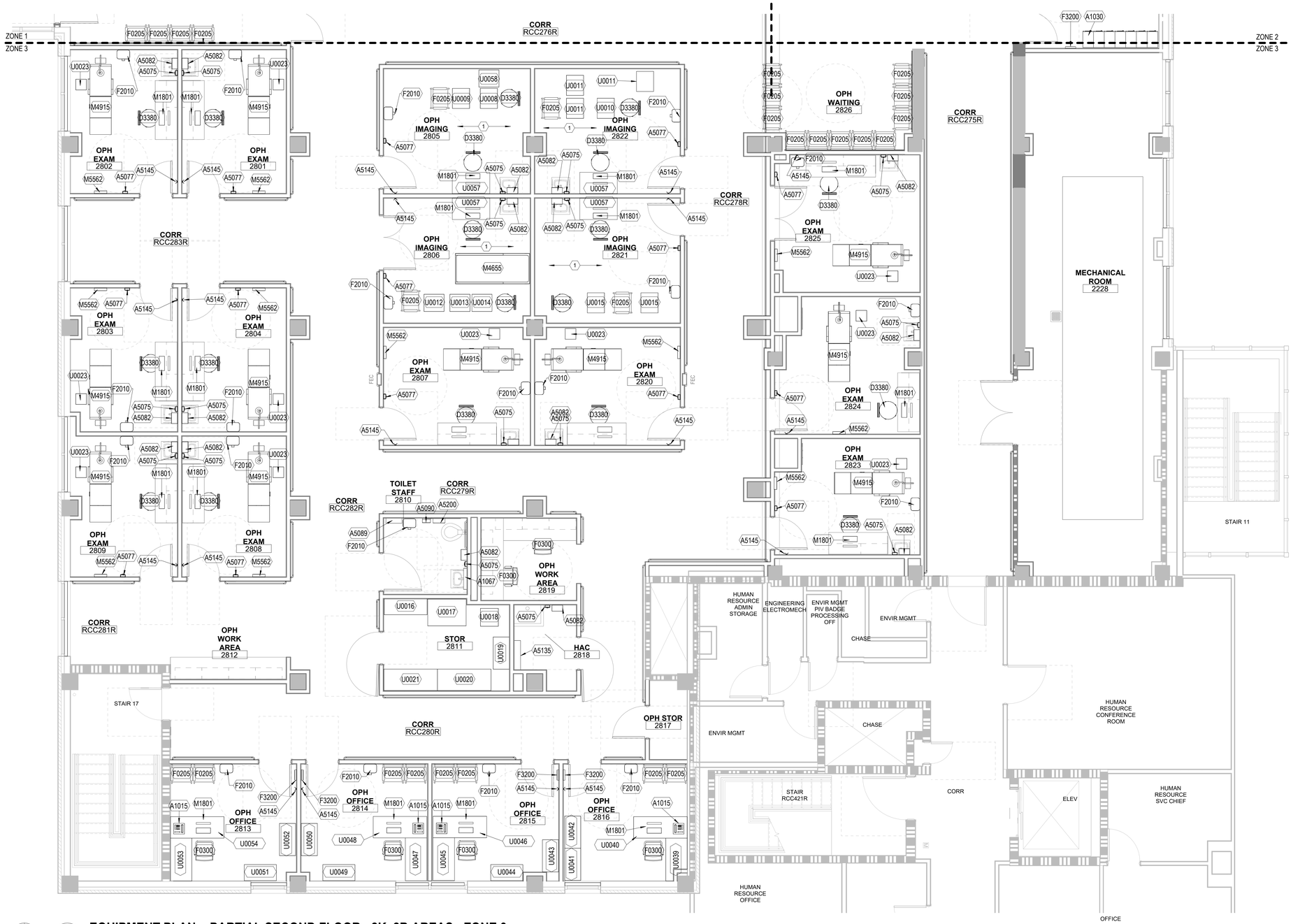


Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL - EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2
Approved: Project Director	
Phase	ISSUED FOR BID
	FULLY SPRINKLERED
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Location	BIRMINGHAM VAMC
Issue Date	05/15/2026
Checked	CR
Drawn	LD
Project Number	521-24-102
Building Number	#1
Drawing Number	AQ102.2

VA FORM 08-6231



1 EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3

1/4" = 1'-0"

0 2' 4' 8'

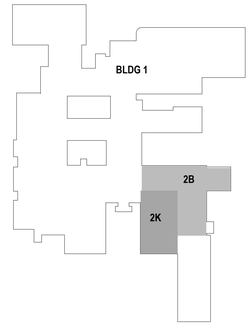
GENERAL SHEET NOTES

A. COORDINATE ALL SPACIAL EQUIPMENT AND FFE ITEMS WITH THE VA.

VV-VA FURNISHED, VA INSTALLED
CC-CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
VC-VA FURNISHED, CONTRACTOR INSTALLED

KEYNOTES

1 COORDINATE EQUIPMENT AND FURNITURE WITH VA PRIOR CONSTRUCTION IN THIS ROOM.



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
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Revisions:	Date:

CONSULTANT

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T: 847-952-9362
www.bancroft-ae.com
Bancroft Project No. 23-135

STAMP

LICENSED ARCHITECT DENNIS J NIDA 001-011697 STATE OF ILLINOIS
11/30/25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - EQUIPMENT PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

Drawn: LD

Project Number: 521-24-102

Building Number: #1

Drawing Number: AQ102.3

VA FORM 08-6231

FFE SCHEDULE 2b

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
2200				
WAITING AREA				
F0205	Chair, Side, With Arms	35	VV	
F0206	Chair, Side, Bariatric, With Arms	4	VV	
F2300	Rack, Magazine, Wall Mounted	1	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
M0515	TV, Wall Mounted	2	VV	
X9910	Wheelchair, Patient, transport, Folding	2	VV	
2201				
RECEPTION/ CHECK IN/ CHECK OUT				
A5145	Hook, Wall Mounted	1	VV	
F0300	Chair, Task, Swivel, With Arms	6	VV	
F2010	Basket, Waste Paper, Step-On	2	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
U0007	PRINTER/COPIER	1	VV	
U0034	Desk	2	VV	
2202				
OPT BARIATRIC EXAM				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915.1	Chair, Exam Bariatric	1		
M5562	Visual Acuity	1	VV	
U0022	OPT PHOROPTER W SLIT LAMP AND STAND	1	VV	
2203				
OPT OFFICE				
A1015	Telephone, Desk	2	VV	
A5145	Hook, Wall Mounted	1	VV	
F0300	Chair, Task, Swivel, With Arms	2	VV	
F2010	Basket, Waste Paper, Step-On	2	VV	
U0031	Desk	1	VV	
U0032	Desk	1	VV	
U0033	Desk	1	VV	
2208				
TOILET STAFF				
A1067	Mirror, Float Glass, With SS Frame	1	CC	
A5075	Dispenser, Soap, Disposable	1	VC	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5089	Dispenser,Napkin/Tampon,SS,Surface Mounted	1	VC	
A5090	Sanitary Napkin Disposal, SS, Surface Mntd	1	VC	
A5200	Dispenser, Toilet Tissue, 2-Roll, Surface Mounted	1	VC	
B5806.1, B5806.2, B5806.3	(1) Grab Bar 42" Horizontal, (1) Grab Bar 36" Horizontal, (1) Grab Bar 18" Vertical	2	CC	
F2010	Basket, Waste Paper, Step-On	1	VV	
2209				
OPT EXAM				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0022	OPT PHOROPTER W SLIT LAMP AND STAND	1	VV	
2210				
OPT EXAM STUDENT				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0022	OPT PHOROPTER W SLIT LAMP AND STAND	1	VV	
2211				

FFE SCHEDULE 2b

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
OPT EXAM STUDENT				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0022	OPT PHOROPTER W SLIT LAMP AND STAND	1	VV	
2212				
OPT OFFICE				
A1015	Telephone, Desk	2	VV	
A5145	Hook, Wall Mounted	1	VV	
F0205	Chair, Side, With Arms	1	VV	
F0300	Chair, Task, Swivel, With Arms	2	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
U0024	Desk	1	VV	
U0025	Desk	1	VV	
U0026	Desk	1	VV	
U0027	File Cabinet	1	VV	
2214				
OPT OFFICE CHIEF				
A1015	Telephone, Desk	1	VV	
A5145	Hook, Wall Mounted	1	VV	
F0205	Chair, Side, With Arms	1	VV	
F0300	Chair, Task, Swivel, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
U0024	Desk	1	VV	
U0028	File Cabinet	1	VV	
U0029	Desk	1	VV	
U0030	File Cabinet	1	VV	
2215				
OPT EXAM				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0022	OPT PHOROPTER W SLIT LAMP AND STAND	1	VV	
2216				
OPT EXAM				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0022	OPT PHOROPTER W SLIT LAMP AND STAND	1	VV	
2217				
OPT EXAM				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0022	OPT PHOROPTER W SLIT LAMP AND STAND	1	VV	
2218				
OPT DILATION/ WAITING				
F0205	Chair, Side, With Arms	14	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	

FFE SCHEDULE 2b

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
2219				
OPT EXAM				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0022	OPT PHOROPTER W SLIT LAMP AND STAND	1	VV	
2220				
OPT IMAGING				
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	2	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
U0003	ZEISS CIRRUS 6000 OPTICAL COHERENCE TOMOGRAPHY	1	VV	
U0004	ZEISS CLARUS FUNDUS CAMERA	1	VV	
U0055	Desk, 24"x42"	1	VV	
2221				
OPT IMAGING				
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	2	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
U0003	ZEISS CIRRUS 6000 OPTICAL COHERENCE TOMOGRAPHY	1	VV	
U0004	ZEISS CLARUS FUNDUS CAMERA	1	VV	
U0055	Desk, 24"x42"	1	VV	
2222				
OPT TECH				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M5562	Visual Acuity	1	VV	
U0002	VISUAL FIELD	1	VV	
U0006	CANON CX-1 FUNDUS CAMERA	1	VV	
2223				
OPT TECH				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M5562	Visual Acuity	1	VV	
U0002	VISUAL FIELD	1	VV	
U0005	CANON CX-1 FUNDUS CAMERA	1	VV	
2224				
OPT TECH				
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M5562	Visual Acuity	1	VV	
U0002	VISUAL FIELD	1	VV	
U0004	ZEISS CLARUS FUNDUS CAMERA	1	VV	

FFE SCHEDULE 2b

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
2225				
OPTIC SHOP				
A1015	Telephone, Desk	4	VV	
A5145	Hook, Wall Mounted	1	VV	
F0205	Chair, Side, With Arms	4	VV	
F0300	Chair, Task, Swivel, With Arms	4	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
U0001	Storage, Optic Shop	1	VV	
U0035	Desk, Optic Shop	1	VV	
U0036	Desk, Optic Shop	1	VV	
U0037	Desk, Optic Shop	1	VV	
U0038	Desk, Optic Shop	1	VV	
2226				
TOILET PUBLIC				
A1067	Mirror, Float Glass, With SS Frame	1	CC	
A5075	Dispenser, Soap, Disposable	1	VC	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5089	Dispenser,Napkin/Tampon,SS,Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
2227				
TOILET PUBLIC				
A1067	Mirror, Float Glass, With SS Frame	1	CC	
A5075	Dispenser, Soap, Disposable	1	VC	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5089	Dispenser,Napkin/Tampon,SS,Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
2229				
BREAK/ LOCKERS				
A5075	Dispenser, Soap, Disposable	1	VC	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
F0795	Table, Dining	1	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
R7250	Refrigerator, Freezer, 20 CU	1	VV	

GENERAL SHEET NOTES

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VC-VA FURNISHED, CONTRACTOR INSTALLED

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35% SCHEMATIC DESIGN	**05/29/2024**
Revisions:	**Date:**

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Bancroft Project No. 23-135

STAMP

LICENSED ARCHITECT DENNIS J NIKA 001-015989 3/16/26 STATE OF ILLINOIS Exp. 11/30/26

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL - EQUIPMENT SCHEDULE

Phase
ISSUED FOR BID

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number
521-24-102

Building Number
#1

Approved: Project Director

Location
BIRMINGHAM VAMC

Drawing Number
AQ601

Issue Date 05/15/2026 | **Checked** CR | **Drawn** LD

FULLY SPRINKLERED

VA FORM 08-6231

FFE SCHEDULE 2k

2801
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2802
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2803
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2804
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2805
OPH IMAGING

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	2	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
U0008	IOL INTRAOCULAR LENS MASTER	1	VV	
U0009	TOPOGRAPHER	1	VV	
U0057	Desk w Overhead, 24"x42"	1	VV	
U0058	OPTICAL BIOMETER	1	VV	

2806
OPH IMAGING

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	2	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4655	Stretcher, Mobile	1	VV	
U0012	PASCAL RETINA LASER	1	VV	
U0013	STL/YAG COMBO LASER	1	VV	
U0014	NORLASE HEADSET LASER	1	VV	
U0057	Desk w Overhead, 24"x42"	1	VV	

2807
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

FFE SCHEDULE 2k

2808
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2809
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2810
TOILET STAFF

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A1067	Mirror, Float Glass, With SS Frame	1	CC	
A5075	Dispenser, Soap, Disposable	1	VC	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5089	Dispenser,Napkin/Tampon,SS,Surface Mounted	1	VC	
A5090	Sanitary Napkin Disposal, SS, Surface Mounted	1	VC	
A5200	Dispenser, Toilet Tissue, 2-Roll, Surface Mounted	1	VC	
F2010	Basket, Waste Paper, Step-On	1	VV	

2811
STOR

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
U0016	SHELVING	1	VV	
U0017	PYXIS CABINET	1	VV	
U0018	SHREDDER	1	VV	
U0019	SHELVING	1	VV	
U0020	SHELVING	1	VV	
U0021	SHELVING	1	VV	

2813
OPH OFFICE

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A1015	Telephone, Desk	1	VV	
A5145	Hook, Wall Mounted	1	VV	
F0205	Chair, Side, With Arms	2	VV	
F0300	Chair, Task, Swivel, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
U0051	File Cabinet	1	VV	
U0052	File Cabinet	1	VV	
U0053	Desk	1	VV	
U0054	Desk	1	VV	

2814
OPH OFFICE

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A1015	Telephone, Desk	1	VV	
A5145	Hook, Wall Mounted	1	VV	
F0205	Chair, Side, With Arms	2	VV	
F0300	Chair, Task, Swivel, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
U0047	Desk	1	VV	
U0048	Desk	1	VV	
U0049	File Cabinet	1	VV	
U0050	File Cabinet	1	VV	

2815
OPH OFFICE

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A1015	Telephone, Desk	1	VV	
A5145	Hook, Wall Mounted	1	VV	
F0205	Chair, Side, With Arms	2	VV	
F0300	Chair, Task, Swivel, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
U0043	File Cabinet	1	VV	
U0044	File Cabinet	1	VV	
U0045	Desk	1	VV	
U0046	Desk	1	VV	

FFE SCHEDULE 2k

2816
OPH OFFICE

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A1015	Telephone, Desk	1	VV	
A5145	Hook, Wall Mounted	1	VV	
F0205	Chair, Side, With Arms	2	VV	
F0300	Chair, Task, Swivel, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
U0039	Desk	1	VV	
U0040	Desk	1	VV	
U0041	File Cabinet	1	VV	
U0042	File Cabinet	1	VV	

2818
HAC

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5135	Shelf, Utility W/ Mop/Broom Holders, SS, Surf Mntd	1	CC	

2819
OPH WORK AREA

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
F0300	Chair, Task, Swivel, With Arms	2	VV	

2820
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2821
OPH IMAGING

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	2	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
U0015	HVF VISUAL FIELD	2	VV	
U0057	Desk w Overhead, 24"x42"	1	VV	

2822
OPH IMAGING

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	2	VV	
F0205	Chair, Side, With Arms	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
U0010	ZEISS CLARUS FUNDUS CAMERA	1	VV	
U0011	OCT	3	VV	
U0057	Desk w Overhead, 24"x42"	1	VV	

2823
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

FFE SCHEDULE 2k

2824
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2825
OPH EXAM

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
A5075	Dispenser, Soap, Disposable	1	VC	
A5077	Hand Sanitizer, Wall Mounted	1	VV	
A5082	Dispenser, Paper Towel, SS, Surface Mounted	1	VC	
A5145	Hook, Wall Mounted	1	VV	
D3380	Stool	1	VV	
F2010	Basket, Waste Paper, Step-On	1	VV	
M4915	Chair, Exam	1		
M5562	Visual Acuity	1	VV	
U0023	OPH PHOROPTER W SLIT LAMP, KERATOMETER AND STAND	1	VV	

2826
OPH WAITING

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
F0205	Chair, Side, With Arms	11	VV	

2827
OPH DILATION

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
F0205	Chair, Side, With Arms	7	VV	
F3200	Clock, Battery, Wall Mounted	1	VV	
X9910	Wheelchair, Patient, transport, Folding	2	VV	

RCC284R
CORR

JSN	DESCRIPTION	QTY	AQUISITION	COMMENTS
F0205	Chair, Side, With Arms	4	VV	

GENERAL SHEET NOTES

A. COORDINATE ALL SPACIAL EQUIPMENT AND FFE ITEMS WITH THE VA.

VV-VA FURNISHED, VA INSTALLED
CC-CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
VC-VA FURNISHED, CONTRACTOR INSTALLED

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
65% DESIGN DEVELOPMENT SUBMITTAL	**09/08/2025**
35% SCHEMATIC DESIGN	**05/29/2024**
Revisions:	**Date:**

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036
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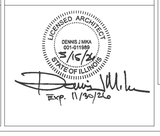
T: 847-952-9362
www.bancroft-ae.com
Bancroft Project No. 23-135

STAMP



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title ARCHITECTURAL - EQUIPMENT SCHEDULE	**Phase** ISSUED FOR BID	**Project Title** RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	**Project Number** 521-24-102
			Building Number #1
Approved: Project Director	FULLY SPRINKLERED	**Location** BIRMINGHAM VAMC	**Drawing Number** AQ602
		Issue Date 05/15/2026 / **Checked** CR / **Drawn** LD	

VA FORM 08-6231

GENERAL SHEET NOTES

A. ALL SIGNAGE TYPES ARE FOR REPRESENTATION ONLY. SEE SPECIFICATIONS FOR FACILITY STANDARDS.
B. COORDINATE ALL SIGNAGE TYPES, LOCATIONS, IDENTIFICATION, LETTERING, WITH VA.

SIGNAGE LEGEND

XX/XX — CEILING MOUNTED DIRECTIONAL SIGN
COORDINATE SIGNAGE WITH VA

SIGNAGE SCHEDULE

TG	ROOM NAME	ROOM NUMBER	SIGN TYPE	NOTES
1	OPTOMETRY AND OPHTHALMOLOGY	RCC270R	A	
2	N/A	2226	C	
3	N/A	2227	C	
4	OPTIC SHOP	2225	A	
5	IMAGING	2224	A	
6	IMAGING	22236	A	
7	IMAGING	2222	A	
8	IMAGING	2221	A	
9	IMAGING	2220	A	
10	EXAM	2219	A	
11	DILATION	2218	A	
12	EXAM	2217	A	
13	EXAM	2216	A	
14	EXAM	2215	A	
15	CHIEF OFFICE	2214	A	
16	N/A	2213	B	
17	OFFICE	2212	A	
18	EXAM	2211	A	
19	EXAM	2210	A	
20	EXAM	2209	A	
21	RESTROOM	2208	C	
22	N/A	2204	B	
23	N/A	2205	B	
24	STAIR 3	-	A	
25	N/A	RCC275R	A	
26	N/A	2206	B	
27	N/A	2207	B	
28	N/A	2208A	B	
29	EXAM	2202	A	
30	CHECK OUT	RCC277R 30	A	
31	CHECK OUT	2201	A	
32	CHECK OUT	2201	A	
33	OFFICE	2203	A	
34	WAITING	RCC284R	A	
35	OPHTHALMOLOGY	RCC276R	A	
36	WAITING	RCC284R	A	
37	WAITING/CHECK IN	2200	A	
38	OPTOMETRY	RCC272R	A	
39	EXAM	2802	A	
40	EXAM	2801	A	
41	EXAM	2803	A	
42	EXAM	2804	A	
43	IMAGING	2805	A	
44	IMAGING	2806	A	
45	EXAM	2807	A	

SIGNAGE SCHEDULE

TG	ROOM NAME	ROOM NUMBER	SIGN TYPE	NOTES
46	N/A	2810	C	
47	N/A	12345	B	
48	EXAM	2809	A	
49	EXAM	2808	A	
50	WORK ALCOVE	2812	A	
51	OFFICE	2813	A	
52	OFFICE	2814	A	
53	OFFICE	2815	A	
54	OFFICE	2816	A	
55	N/A	2817	B	
56	N/A	2818	B	
57	WORK ALCOVE	2819	A	
58	EXAM	2823	A	
59	EXAM	2824	A	
60	EXAM	2820	A	
61	IMAGING	2821	A	
62	IMAGING	2822	A	
63	EXAM	2825	A	
64	DILATION	2826	A	
65	DILATION	2827	A	
66	BREAK/LOCKERS	2229	A	
67	N/A	2228	B	
68	STAIR 17	-	A	
69	STAIRS	N/A	G	
70	FIRE DOOR	N/A	E	
71	FIRE DOOR	N/A	E	
72	STAIRS	N/A	G	
73	N/A	N/A	F	
74	N/A	N/A	F	
75	N/A	N/A	F	
76	FIRE EXTINGUISHER	N/A	D	
77	FIRE EXTINGUISHER	N/A	D	
78	FIRE EXTINGUISHER	N/A	D	
79	N/A	N/A	A	
80	OPTOMETRY	N/A	H	
81	OPHTHALMOLOGY	N/A	H	
82	UAB	N/A	H	
83	VAMC	N/A	H	
84	UAB	N/A	H	
85	VAMC	N/A	H	
86	EYE CLINIC	N/A	H	
87	UAB	N/A	H	
88	EYE CLINIC	N/A	H	
89	UAB	N/A	H	

N

1 **SIGNAGE PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS**

1/8" = 1'-0"

0 4' 8' 16'

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
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Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036

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Mount Prospect, IL 60056
T: 847-952-9362
www.bancroft-ae.com
Bancroft Project No. 23-135

STAMP

DENNIS J MIKA
001-011569
REGISTERED ARCHITECT
5/15/26
STATE OF ILLINOIS
EXP. 11/30/26

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: ARCHITECTURAL - WAYFINDING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: CR

Drawn: LD

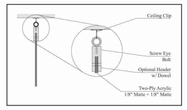
Project Number: 521-24-102

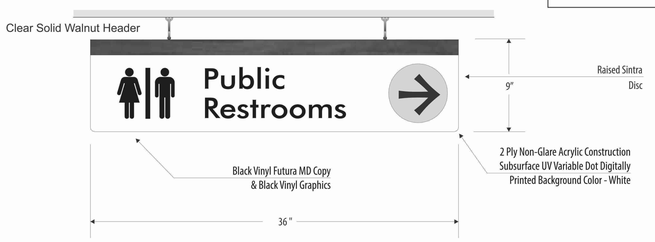
Building Number: #1

Drawing Number: AW101

VA FORM 08-6231

SIGN TYPE "A"





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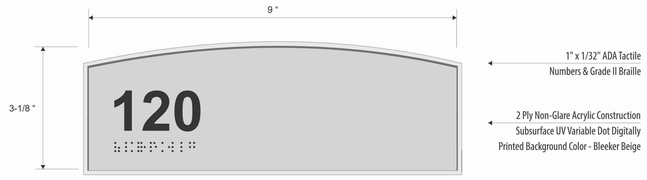

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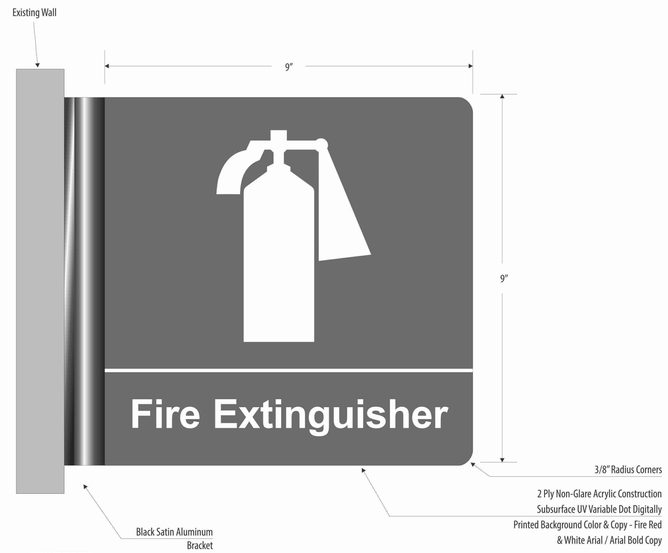

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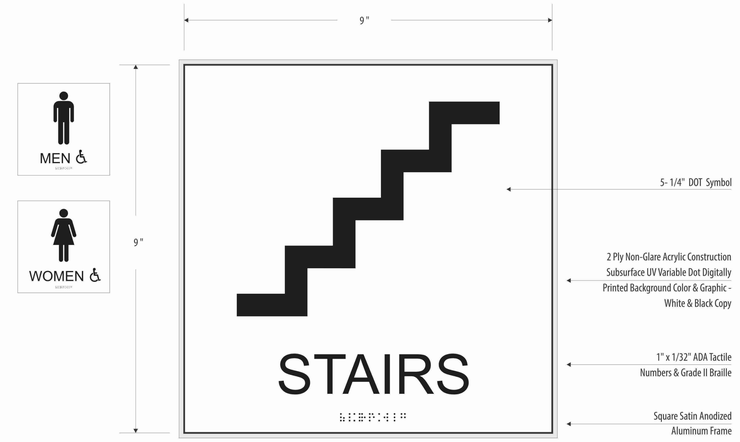
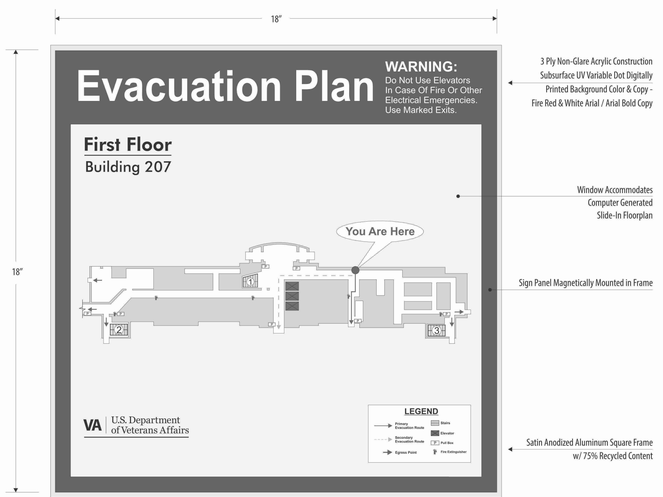


SIGN TYPE "G"

SIGN TYPE "E"



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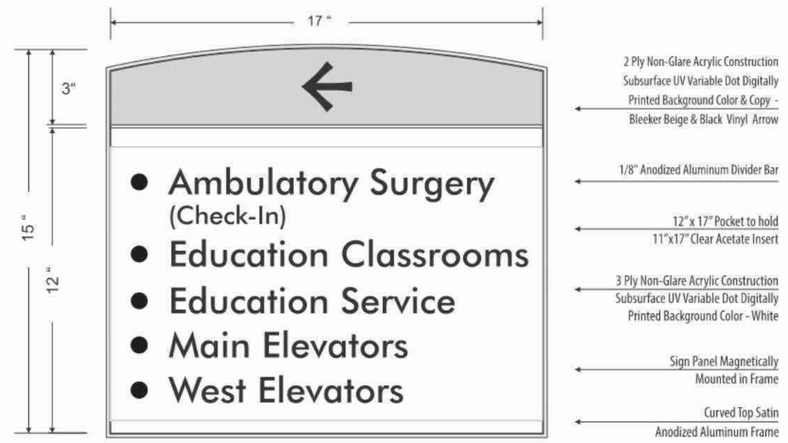

SIGN TYPE "H"

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
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STAMP

LICENSED ARCHITECT
DENNIS J. NIKA
001-011559
STATE OF ILLINOIS
EXP. 11/30/26

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL - WAYFINDING TYPES

Approved: Project Director

Phase
ISSUED FOR BID

FULLY SPRINKLERED

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location
BIRMINGHAM VAMC

Issue Date 05/15/2026
Checked CR
Drawn LD

Project Number
521-24-102

Building Number
#1

Drawing Number
AW601

VA FORM 08-6231

FIRE PROTECTION GENERAL NOTES

GENERAL NOTES FOR CONTRACTORS: SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL WORK LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED HEREIN.

EQUIVALENCY SUBSTITUTIONS: THE "BASIS OF DESIGN (BOD) COMPLIANCE PROTOCOLS" ARE TO BE FOLLOWED FOR ALL MATERIALS, EQUIPMENT, ASSEMBLIES AND SYSTEMS SPECIFIED AND DETAILED THROUGHOUT ALL DRAWINGS AND SPECIFICATION SECTIONS. WHETHER THE BOD DESIGNATE IS SPECIFICALLY REFERENCED THEREIN OR NOT. SEE THE GENERAL DRAWINGS SECTION FOR THE SPECIFIC BOD COMPLIANCE REQUIREMENTS AND PROTOCOLS TO BE FOLLOWED.

1. THIS CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL DRAWINGS AND ENTIRE PROJECT MANUAL. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THEIR WORK. THE CONTRACTOR SHALL FULLY COORDINATE THEIR WORK WITH THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL CHARGE TO THE VA/GOVERNMENT.

2. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE VAICO AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN THEIR WORK AND THE WORK OF OTHER TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTING CONDITIONS EXIST.

3. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE VA/GOVERNMENT.

4. THIS CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, ON THE DRAWINGS WITHOUT DEVIATION FROM THE BOD.

5. IT IS THE INTENT OF THESE DOCUMENTS THAT THE FIRE PROTECTION CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES, CONTROLS AND APPURTENANCES REQUIRED TO SET NEW SYSTEMS INTO OPERATION.

6. SHOULD CONDITIONS NECESSITATE ANY REARRANGEMENTS, OR IF PIPING CAN BE RUN TO BETTER ADVANTAGE, PREPARE AND SUBMIT SHOP DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED BY THE VA/COR AND SUCCESSFULLY REVIEWED BY THE ARCHITECT, THEY SHALL BECOME A PART OF THE CONTRACT.

7. THIS CONTRACTOR SHALL VERIFY ALL MOUNTING, ALL ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, WEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK, ETC.

8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT FEDERAL BUILDING CODES, REGULATIONS, AND REQUIREMENTS, LOCAL UTILITY COMPANY REQUIREMENTS, NFPA, IFC, AND ASHRAE STANDARDS. ALL COMPONENTS SHALL BE UL LISTED AND FM APPROVED.

9. THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.

10. THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS WORK AND MATERIALS FOR THE PERIOD OF ONE YEAR. FROM FINAL ACCEPTANCE BY THE VA/GOVERNMENT.

11. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, IN., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

12. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING ALL NEW EQUIPMENT FURNISHED BY THIS CONTRACTOR AND EQUIPMENT FURNISHED BY VA/GOVERNMENT FROM DAMAGE BY VANDALISM AND WEATHER DURING CONSTRUCTION.

13. THIS CONTRACTOR SHALL PROVIDE A COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE VA/GOVERNMENT IN THE OPERATION AND MAINTENANCE OF THE NEW EQUIPMENT.

14. UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES. REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTONS BY THIS CONTRACTOR.

15. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL MEMBERS, SLEEVES, AND SHIMS REQUIRED TO LEVEL AND SUPPORT EQUIPMENT AND PIPES.

16. EXISTING SERVICE VALVES AT ALL BRANCH SUPPLY PIPING SHALL REMAIN AS IS. SUCH SERVICE VALVES SHALL BE AS PER THE SPECIFICATIONS AND/OR IN KEEPING WITH THE FACILITY STANDARDS.

17. SPRINKLER HEADS SHALL BE LOCATED IN CEILING GRID IN A SYMMETRICAL PATTERN, COORDINATED WITH OTHER DEVICES MOUNTED IN OR ON THE CEILING. PROVIDE ADDITIONAL SPRINKLER HEADS REQUIRED TO ACHIEVE SYMMETRY. LOCATE SPRINKLER HEADS IN THE CENTER OF CEILING TILES.

18. SPRINKLER CONTRACTOR SHALL PROVIDE A COORDINATED REFLECTED CEILING PLAN AS PART OF THE SUBMITTAL TO THE VA/COR SHOWING SPRINKLER HEAD LOCATIONS COORDINATED WITH CEILING AND ALL OBJECTS MOUNTED IN OR ON THE CEILING.

19. THE SPRINKLER CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF COMMERCIAL SPRINKLER SYSTEM AND SHALL HAVE HAD A MINIMUM OF THREE (3) YEARS OF EXPERIENCE IN THE INSTALLATION OF SPRINKLER SYSTEMS.

FIRE PROTECTION GENERAL NOTES

21. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESIGN OF THE SPRINKLER SYSTEM AND TO SUBMIT HYDRAULIC CALCULATIONS PER NFPA 13 IN SUBMITTAL OF SHOP DRAWINGS AND FOR THE COMPLETE DESIGN OF THE SPRINKLER SYSTEM. THE SPRINKLER SYSTEM SHALL BE:
    A. A DESIGNED SYSTEM IN ACCORDANCE WITH NFPA 13, 2022 AND SPECIFICATION.
    B. DESIGNED TO CONFORM WITH BUILDING STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEM, AS INDICATED AND DESCRIBED ON THE CONTRACT DOCUMENTS.

22. THE SPECIFICATIONS, THE ENGINEER SHALL SUBMIT FOR APPROVAL TO THE AUTHORITIES HAVING JURISDICTION, FULLY COORDINATED SHOP DRAWINGS OF SPRINKLER HEADS, HANGERS AND SUPPORTS. DESIGN PLAN SHALL BE PREPARED AND SIGNED/SEALED BY A REGISTERED FIRE PROTECTION ENGINEER IN ACCORDANCE WITH UCF REQUIREMENT OR BY A NICET LEVEL III/IV TECHNICIAN.

23. THE SPRINKLER SYSTEM SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION CODE.

24. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TEST OF ANY OR ALL PARTS OF THE WORK AND PAY ALL CHARGES FOR SAME.

25. ARCHITECT/ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE FLOW TEST DATA OR PERFORMING AN UPDATED FLOW TEST AS PER NFPA 13, NFPA 25, AND NFPA 219.

26. AREA SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENT FOR OCCUPANCY PER NFPA 13.

27. THE AUTOMATIC WET FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN SUCH A MANNER TO PREVENT THE SYSTEM PIPING OR SPRINKLER HEAD EXPOSURE TO TEMPERATURES LESS THAN 40 DEGREES F.

28. CONTRACTOR SHALL PROVIDE COORDINATED PIPE SLEEVE DRAWINGS SHOWING ALL PENETRATIONS THROUGH FLOORS.

29. ALL FIRE PROTECTION VALVES SHALL BE SUPERVISED.

30. INSTALLER QUALIFICATIONS: CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE DESIGNING, FABRICATING AND INSTALLING FIRE-SUPPRESSION SYSTEMS AND PROVIDING PROFESSIONAL ENGINEERING SERVICES OR THE SERVICES OF A NICET LEVEL III/IV TECHNICIAN AS NEEDED TO ASSUME ENGINEERING RESPONSIBILITY. CALCULATIONS BASED ON RESULTS OF THE FIRE-HYDRANT FLOW TEST(S) THEY PERFORM.
    A. ENGINEERING RESPONSIBILITY: PREPARATION OF WORKING PLANS, CALCULATIONS, AND FIELD TEST REPORTS BY A QUALIFIED PROFESSIONAL FIRE PROTECTION ENGINEER.

31. WELDING: QUALIFY PROCESSES AND OPERATORS ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE, SECTION IX.

32. NFPA STANDARDS: FIRE SUPPRESSION SYSTEM EQUIPMENT, SPECIALTIES, ACCESSORIES, INSTALLATION AND TESTING SHALL COMPLY WITH THE FOLLOWING:
    - NFPA 13, 2022 INSTALLATION OF SPRINKLER SYSTEMS.
    - NFPA 101, 2024 LIFE SAFETY CODE.
    - NFPA 72 , 2022 FIRE ALARM CODE.

33. FIRE-SUPPRESSION SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY VA.
    A. MARGIN OF SAFETY FOR AVAILABLE WATER FLOW AND PRESSURE: 10 PERCENT, INCLUDING LOSSES THROUGH WATER-SERVICE PIPING, VALVES, AND BACKFLOW PREVENTERS.

34. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE VA/COR A COMPLETE LIST OF ITEMS TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. INCLUDING, BUT NOT BE LIMITED TO THE FOLLOWING:
    A. DIMENSIONED SHOP DRAWINGS OF MATERIALS AND FIXTURES. DIMENSIONED SHOP DRAWINGS OF EQUIPMENT AND PIPING PLAN LAYOUT(S).

35. REQUIRED ITEMS TO BE SUBMITTED SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
    A. PRODUCT DATA.
    B. APPROVED SPRINKLER PIPING DRAWINGS: WORKING PLANS AND HYDRAULIC CALCULATIONS, PREPARED ACCORDING TO NFPA, AND HAVE BEEN APPROVED BY THE VA & ENGINEER OF RECORD .
    C. FIELD QUALITY-CONTROL TEST REPORTS.
    D. FIELD TEST CERTIFICATES.
    E. OPERATION AND MAINTENANCE DATA.

36. SEISMIC PERFORMANCE: FIRE-SUPPRESSION PIPING SHALL BE CAPABLE OF WITHSTANDING THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO NFPA 13 AND APPLICABLE CODE REQUIREMENTS. ASCE 7, VA 11-18-8. REFER TO ARCHITECTURAL DESIGN FOR SEISMIC HAZARD LEVEL CLASSIFICATIONS.

37. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE VA/COR A COMPLETE LIST OF ITEMS TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. INCLUDING, BUT NOT BE LIMITED TO THE FOLLOWING:
    A. DIMENSIONED SHOP DRAWINGS OF MATERIALS, FIXTURES AND EQUIPMENT.
    B. DIMENSIONED SHOP DRAWINGS OF EQUIPMENT AND PIPING PLAN LAYOUT(S).

38. FLEXIBLE CONNECTORS:
    A. FLEXIBLE CONNECTORS SHALL HAVE MATERIALS SUITABLE FOR SYSTEM FLUID. INCLUDE 175 PSIG MINIMUM WORKING-PRESSURE RATING AND ENDS ACCORDING TO THE FOLLOWING:
        a. NPS 2 AND SMALLER: THREADED.
        b. NPS 2-1/2 AND LARGER: GROOVED FOR USE WITH GROOVED-END PIPE COUPLINGS.
    B. STAINLESS-STEEL-HOSE/STEEL PIPE, FLEXIBLE CONNECTORS: CORRUGATED, STAINLESS-STEEL, INNER TUBING COVERED WITH STAINLESS-STEEL WIRE BRAID. INCLUDE STEEL NIPPLES OR FLANGES, WELDED TO HOSE.
    C. STAINLESS-STEEL-HOSE/STAINLESS-STEEL PIPE, FLEXIBLE CONNECTORS: CORRUGATED STAINLESS-STEEL, INNER TUBING COVERED WITH STAINLESS-STEEL WIRE BRAID. INCLUDE STAINLESS-STEEL NIPPLES OR FLANGES, WELDED TO HOSE.
    D. ALL CONNECTIONS AND FLEXIBLE HOSES SHALL BE FM APPROVED.

39. EXISTING FIRE SPRINKLER PROTECTION SYSTEM:
    A. THE EXISTING FIRE SPRINKLER SYSTEMS SHALL BE OPERATIONAL THROUGHOUT THE PROJECT.
    B. THE SYSTEM MAY ONLY BE NON-OPERATIONAL FOR SCHEDULED SHUTDOWNS.
    C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FIRE WATCH IF THE SYSTEM IS OUT OF SERVICE FOR MORE THAN 4 HOURS IN AN OCCURPIED BUILDING. THIS WILL REQUIRE DEDICATED PERSONNEL TO PERFORM THE FIRE WATCH WITH NO OTHER TAKS PERFORMED.
    D. VA/COR TO COORDINATE CONTRACTOR REQUESTED SHUTDOWN WITH APPROPRIATE VA SHOP PERSONNEL WITH 72 HOUR PRIOR NOTIFICATION BY THE CONTRACTOR AND APPROVAL BY THE VA SAFETY.
    E. INSTALL TEMPORARY UPRIGHT SPRINKLERS IN ROOMSHARE AREAS WHERE THE CEILING SYSTEM IS BEING REMOVED FOR MORE THAN A WORK SHIFT AT A TIME.

HANGING AND SEISMIC BRACE GENERAL NOTES

41. INSTALL AFSS PIPING WITH 2" MINIMUM CLEARANCE FROM STRUCTURAL MEMBERS NOT PENETRATED OR USED TO SUPPORT THE PIPING.

42. HANGER LOCATIONS FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, SECTION 17.4. SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED.

43. AFSS PIPING SHALL PASS THROUGH HOLES/SLEEVES IN WALLS, FLOORS, ROOFS OR FOUNDATIONS. COMPLY WITH ALL STRUCTURAL DETAILS AND THE FOLLOWING: PROVIDE 2" NOMINAL CLEARANCE AT HOLES/SLEEVES FOR PIPES 3-1/2" AND SMALLER. PROVIDE 4" NOMINAL CLEARANCE AT HOLES/SLEEVES FOR PIPES 4" AND LARGER.

44. AFSS PIPING SHALL NOT PENETRATE OR INTERRUPT FRAMING MEMBERS INCLUDING BUT NOT LIMITED TO STUDS, POSTS, COLUMNS, JOISTS, RAFTERS, BEAMS AND GIRDERS. DO NOT CUT OR DRILL FRAMING MEMBERS UNLESS SPECIFICALLY NOTED.

45. AFSS PIPING HANGERS, COMPONENTS, AND FASTENERS SHALL BE LISTED FERROUS, AND DESIGNED TO SUPPORT FIVE TIMES THE TRIBUTARY WEIGHT OF WATER-FILLED PIPE PLUS 250 POUNDS.

46. PIPING HANGERS SHALL NOT BE SUBJECTED TO BENDING. INSTALL WITH SWIVELS, EYE NUTS, ARTICULATING ATTACHMENTS OR OTHER DEVICES TO PREVENT BENDING.

47. PIPING HANGERS SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE, C-TYPE CLAMPS USED TO ATTACH HANGERS TO THE BUILDING STRUCTURE SHALL BE EQUIPPED WITH A RESTRAINING STRAP. POWER ACTUATED FASTENERS SHALL NOT BE USED TO ATTACH HANGERS TO THE BUILDING STRUCTURE.

48. THE MAXIMUM DISTANCE BETWEEN AFSS PIPING HANGERS SHALL NOT EXCEED: 12' FOR STEEL PIPE 1-1/4" AND SMALLER; 15' FOR STEEL PIPE 1-1/2" AND LARGER.

49. PROVIDE ONE HANGER MINIMUM ON EACH SECTION OF PIPE BETWEEN EACH BRANCHLINE AT MAINS, AND AT THE ENDS OF MAINS. HANGER CLEARANCE TO UPRIGHT SPRINKLERS SHALL BE 3" MINIMUM.

50. STEEL FRAMING SUPPORTING AFSS PIPING HANGERS SHALL COMPLY WITH THE FOLLOWING: U.N.O. DO NOT SUPPORT PIPING FROM BARE STEEL DECK. U.N.O. DO NOT SUPPORT PIPING 2-1/2" AND GREATER FROM CONCRETE FILLED STEEL DECK OR CONCRETE SLABS. U.N.O. DO NOT SUPPORT PIPING FROM FRAMING LESS THAN 8" DEEP. U.N.O. DO NOT SUPPORT MORE THAN ONE PIPING HANGER AT ANY MEMBER LESS THAN 12" DEEP.

51. PROVIDE SEISMIC BRACING IN ACCORDANCE WITH NFPA 13 SECTION 18.

    A. LATERAL BRACING SHALL BE PROVIDED ON ALL FEED AND CROSS MAIN REGARDLESS OF PIPING SIZE, ON ALL OTHER PIPING 2-1/2" AND LARGER AND SHALL BE SPACED AT A MAXIMUM OF 40' ON CENTER. PROVIDE A LATERAL BRACE WITHIN 6' OF EACH END OF EACH RUN OF MAIN PIPE.

    B. LONGITUDINAL BRACING SHALL BE PROVIDED ON ALL FEES AND CROSS MAIN PIPING AND SHALL BE SPACED AT CALCULATED VALUES.

    C. LONGITUDINAL BRACES SHALL BE ALLOWED TO ACT AS LATERAL BRACES IF THEY ARE WITHIN 24" OF THE CENTER LINE OF THE PIPING BRACED LATERALLY. LATERAL BRACES SHALL BE ALLOWED TO ACT AS LONGITUDINAL BRACES IF THEY ARE WITHIN 24" OF THE CENTERLINE OF THE PIPING BRACED LONGITUDINALLY AND THE LATERAL BRACE IS ON A PIPE OF EQUAL OR GREATER SIZE THAN THE PIPE BEING BRACED LONGITUDINALLY.

    D. EACH RUN OF PIPE BETWEEN CHANGES IN DIRECTION SHALL BE PROVIDED WITH BOTH LATERAL AND LONGITUDINAL BRACING OTHER THAN PIPE RUNS LESS THAN 12' LONG.

    E. BRACE ATTACHMENT TO PIPING SHALL BE ATTACHED DIRECTLY TO FEED AND CROSS MAINS. INSTALL SO THAT CONNECTIONS ARE TIGHT AND IN STRAIGHT LINES TO AVOID ECCENTRIC LOADINGS ON BRACES, COMPONENTS, AND FASTENERS. POWER ACTUATED FASTENERS, LAG SCREWS, OR C-TYPE CLAMPS SHALL NOT BE USED TO ATTACH BRACES TO THE BUILDING STRUCTURE.

    F. THREADED PIPE USED AS PART OF A BRACE ASSEMBLY SHALL BE SCHEDULE 40 MINIMUM.

    G. TOPS OF RISERS EXCEEDING 3' IN LENGTH SHALL BE PROVIDE WITH A FOUR-WAY BRACE.

    H. BRANCH LINE PIPING SHALL BE VERTICALLY AND LATERALLY RESTRAINED AT INTERVALS IN ACCORDANCE WITH NFPA 13 TABLE 18.6.4(a), AND SHALL NOT EXCEEDING 36 INCHES FROM THE END OF THE LINE FOR 1 INCH PIPE; 48 INCHES FROM THE END OF THE LINE FOR 1.25 INCH PIPE; AND 60 INCHES FROM THE END OF THE LINE FOR 1.5 INCH PIPE. SPRIGS 4' OR LONGER SHALL BE LATERALLY RESTRAINED.

    I. PROVIDE RIGID COUPLINGS THROUGHOUT, EXCEPT FLEXIBLE COUPLINGS SHALL BE INSTALLED WHERE REQUIRED BY NFPA 13 SECTION 18.2.

SEISMIC DESIGN DATA:

MAPPED SPECTRAL RESPONSE ACCELERATION, Ss: 0.33g; SD1: 0.16g
SITE CLASS: D
BUILDING RISK CATEGORY: IV
SEISMIC DESIGN CATEGORY: D

FIRE PROTECTION SPRINKLER SCHEDULE

SYMBOL	TYPE	RE.	K-F	FINISH	BASIS OF DESIGN MANUFACTURER AND MODEL	REMARKS
⊙	RECESSED PENDENT	QR	5.6	WHITE	QUICK RESPONSE PENDENT SPRINKLER 135 °F	NOTE 1, 2, 3, & 5
⊗	UPRIGHT	SR	5.6	BRASS	STANDARD RESPONSE FUSIBLE LINK UPRIGHT SPRINKLER 165 °F	NOTE 1, 2, 4, & 5
○	UPRIGHT	QR	5.6	BRASS	QUICK RESPONSE UPRIGHT SPRINKLER 155 °F	NOTE 1, 2, 3, 4, & 5

GENERAL NOTES:

1. SPRINKLER SHALL BE THE APPROPRIATE TEMPERATURE RATING FOR LOCATION AND OCCUPANCY IN ACCORDANCE WITH NFPA 13 AND VETERAN'S ADMINISTRATION FIRE PROTECTION DESIGN MANUAL.
2. SPRINKLER SHALL ALIGN WITH LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES. COORDINATE SPRINKLER LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, AND PROVIDE ADDITIONAL SPRINKLERS WHERE REQUIRED TO MAINTAIN THE CEILING LAYOUT OF ALL DISCIPLINES, FIXTURES, EQUIPMENT AND WORK.
3. QUICK RESPONSE SPRINKLERS ARE REQUIRED TO BE FACTORY MUTUAL (FM) APPROVED AS QUICK RESPONSE.
4. PROVIDED WITH LISTED SPRINKLER GUARD FOR INSTALLATION BELOW 7-FT AFF.
5. QUICK RESPONSE SPRINKLERS SHALL BE PROVIDED IN ALL AREAS EXCEPT ELECTRICAL ROOMS (TELECOMMUNICATIONS SPACES, ELECTRICAL SWITCHGEAR ROOMS, ETC.) WHERE STANDARD RESPONSE FUSIBLE LINK SPRINKLERS SHALL BE PROVIDED.

FIRE PROTECTION ABBREVIATION LIST

SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
DP	DRY PENDENT
DSV	DRY SYSTEM VALVE
DN	DOWN
DS	DATA SHEET
EC	EXTENDED COVERAGE
EX	EXISTING
FHV	FIRE HOSE VALVE
FM	FACTORY MUTUAL
FP	FIRE PROTECTION
FMP	FIRE MAINTENANCE PUMP
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET
GC	GENERAL CONTRACTOR
QR/QRS	QUICK RESPONSE
IN	INCH
JP	JOCKEY PUMP
"K"	SPRINKLER K-FACTOR
PC	PLUMBING CONTRACTOR
SPR	SPRINKLER RESPONSE
SR	STANDARD RESPONSE
SS	STANDPIPE SYSTEM
SSP	STANDARD PENDENT SPRINKLER
SSU	STANDARD UPRIGHT SPRINKLER
STND	STANDARD
THR	THREADED
WS	WET STANDPIPE SYSTEM

FIRE PROTECTION SYMBOL LIST

SYMBOL	DESCRIPTION
———	NEW SPRINKLER PIPING
— — — —	DEMO SPRINKLER PIPING
~	CONTINUATION
(D)	SPRINKLER HEADS TO BE DEMO
	RISER
	CONNECT INTO EXISTING

NOTE: HALF-TONE SYMBOL INDICATES EXISTING TO REMAIN.

SHEET INDEX

Sheet Number	Sheet Name
FA001	FIRE PROTECTION - GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
FA002	FIRE PROTECTION - SITE PLAN
FAD102B	FIRE PROTECTION - DEMOLITION SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA B
FAD102K	FIRE PROTECTION - DEMOLITION SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA K
FA102	FIRE PROTECTION - NEW WORK SPRINKLER PLAN - OVERALL SECOND FLOOR
FA102B	FIRE PROTECTION - NEW WORK SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA B
FA102K	FIRE PROTECTION - NEW WORK SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA K
FA700	FIRE PROTECTION - DETAILS
FAD101	FIRE ALARM DEMO PLAN - SECOND FLOOR - 2K, 2B AREA
FA101	FIRE ALARM PLAN - SECOND FLOOR - 2K, 2B AREA
FA601	FIRE ALARM RISER DIAGRAM - SECOND FLOOR - 2K, 2B AREA

FIRE BARRIER LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE - RATED BARRIER & SMOKE SEPARATION
- 1 HOUR FIRE - RATED BARRIER & SMOKE SEPARATION
- SMOKE COMPARTMENT/SPRINKLER SYSTEM BOUNDARY

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS SUBMISSION	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMISSION	09/08/2025
Revisions:	Date:

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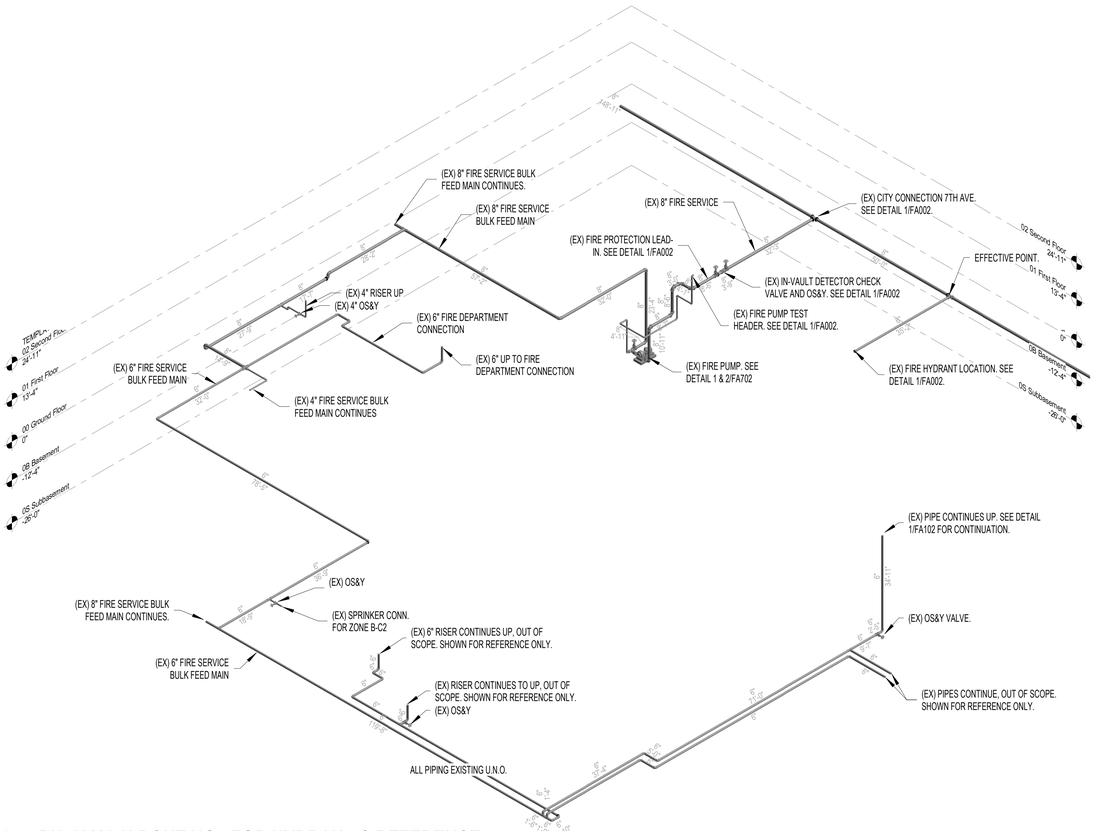
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
Phase: ISSUED FOR BID
Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Project Number: 521-24-102
Building Number: #1
Approved: Project Director
Location: BIRMINGHAM VAMC
Issue Date: 05/15/2026
Checked: BY
Drawn: PR
Drawing Number: FA001

VA FORM 08-6231



4 BULK MAIN ROUTING - FOR HYDRAULIC REFERENCE

NOT TO SCALE

WATER SUPPLY
STATIC - 76 PSI RESIDUAL - 72 PSI FLOW - 1,186 GPM
DATE OF TEST: 08/26/2025 2:00PM TEST BY: BIRMINGHAM FIRE & RESCUE SERVICE DEPARTMENT.
FLOW TEST ELEVATION: ±604 FT. AMSL
FINISHED (2ND) FLOOR ELEVATION: ±630 FT. AMSL
10% SAFETY IN ACCORDANCE WITH VA DESIGN REQUIREMENTS
EFFECTIVE POINT: 7TH AVE & MID-BLOCK BETWEEN 18TH AND 19TH S.
WATER SUPPLY TO BE USED FOR FIRE SPRINKLER DESIGN AT EFFECTIVE POINT:
STATIC - 68.4 PSI RESIDUAL - 64.4 PSI FLOW - 1,186 GPM

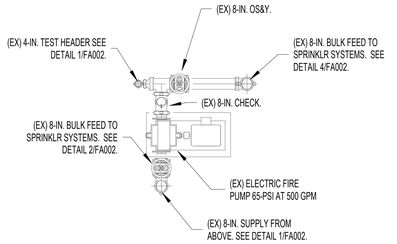
CENTRIFUGAL, ELECTRIC FIRE PUMP

HORIZONTAL SPLIT-CASE
BY
AURORA

Model:	3-481-10	Rated GPM:	500	PSI 150%:	46
Stage:	SINGLE	Rated PSI:	65	PSI Max:	76
Imp. Dia. (in.):	6.57	Rated BHP:	-	Max Suction:	-
Rated RPM:	3530	Max BHP:	-		
Serial #:	15-2463740			Status:	EXISTING

ANNUAL PUMP TEST
PERFORMED BY DOWDY AND ASSOCIATES INC
JUNE 25, 2025

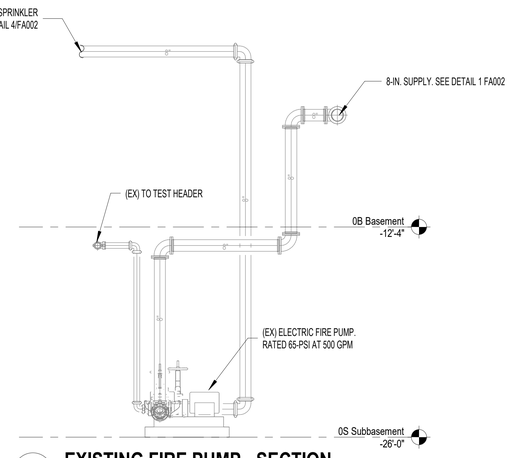
SUCTION	DISCHARGE	NET	TOTAL GPM
87	160	73	0
82	146	64	504
78	129	51	756



3 EXISTING FIRE PUMP

NOT TO SCALE

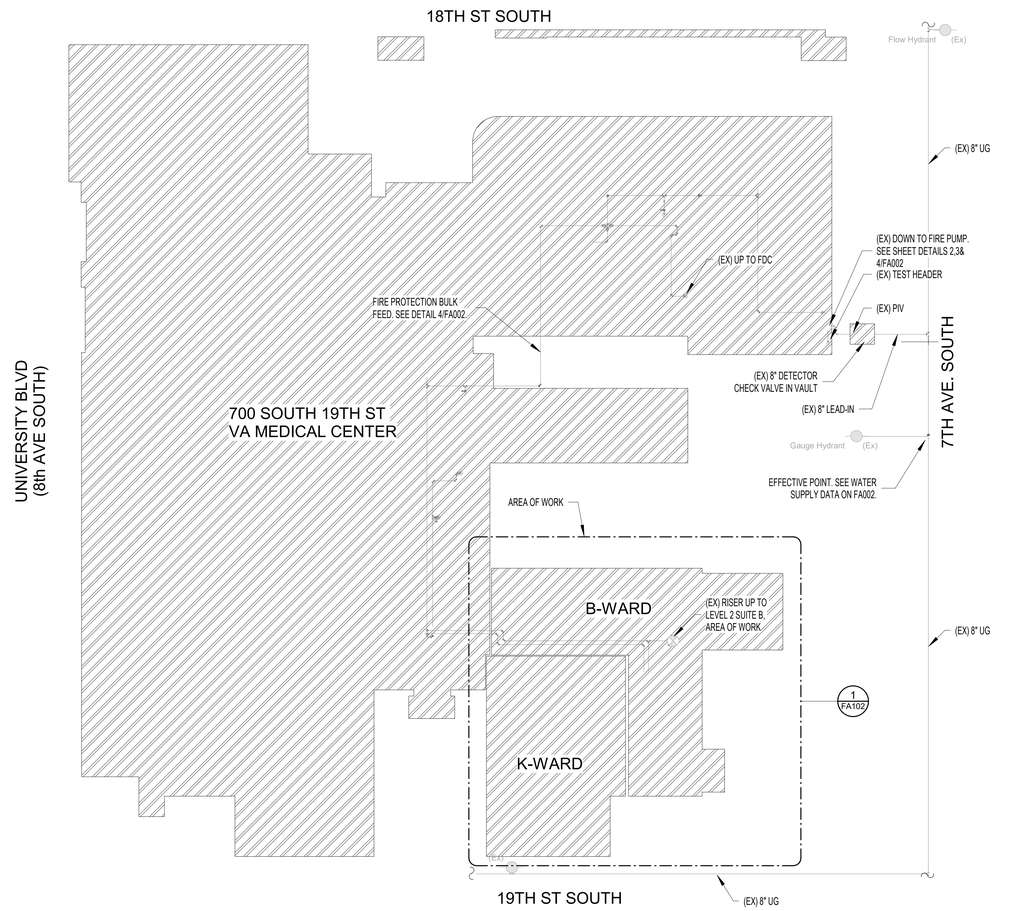
NOTE: THE BUILDING IS SERVED BY AN EXISTING FIRE PUMP AND JOCKEY PUMP LOCATED IN ENGINEERING FIRE PUMP ROOM NO.RCCSB04R IN THE SUBBASEMENT OF WARD-D. NO MODIFICATIONS TO THE FIRE PUMP, CONTROLLER, TEST HEADER, OR WATER SUPPLY ARE INCLUDED IN THIS PROJECT. FIRE PROTECTION DESIGN IS LIMITED TO THE AREA SHOWN ON SHEETS FA 102, FA102B, & FA102K.



2 EXISTING FIRE PUMP - SECTION

NOT TO SCALE

NOTE: THE BUILDING IS SERVED BY AN EXISTING FIRE PUMP AND JOCKEY PUMP LOCATED IN ENGINEERING FIRE PUMP ROOM NO.RCCSB04R IN THE SUBBASEMENT OF WARD-D. NO MODIFICATIONS TO THE FIRE PUMP, CONTROLLER, TEST HEADER, OR WATER SUPPLY ARE INCLUDED IN THIS PROJECT. FIRE PROTECTION DESIGN IS LIMITED TO THE AREA SHOWN ON SHEETS FA 102, FA102B, & FA102K.



1 SITE PLAN

N.T.S.

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS SUBMISSION	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMISSION	09/08/2025
Revisions:	Date:

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Bancroft Project No. 23-135

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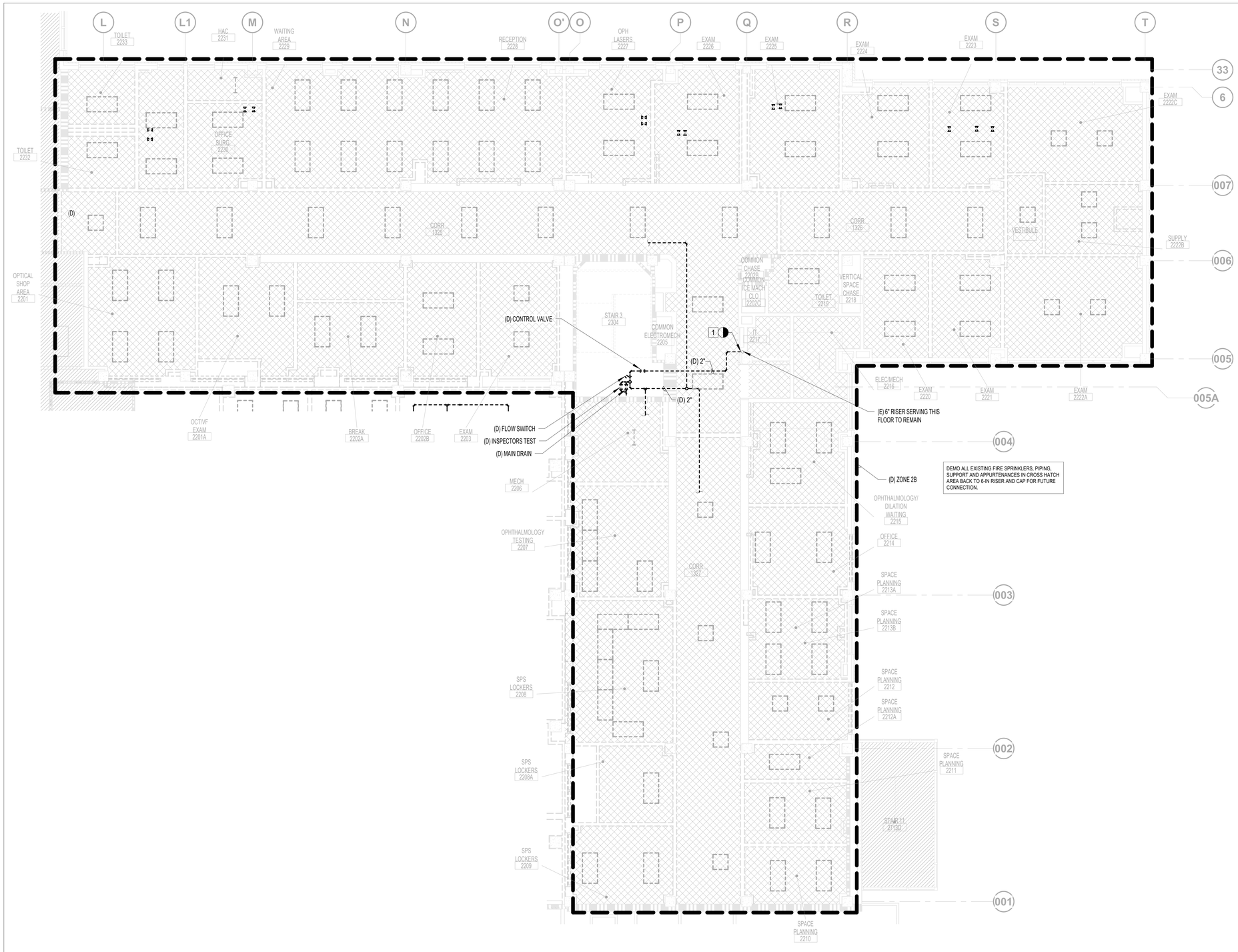
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - SITE PLAN	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director		Location: BIRMINGHAM VAMC	Drawing Number: FA002
		Issue Date: 05/15/2026 / Checked: BY / Drawn: PR	

VA FORM 08-6231



FIRE PROTECTION DEMOLITION GENERAL NOTES

A. FIRE PROTECTION CONTRACTOR TO COORDINATE WITH (VA COR) (OWNER'S REPRESENTATIVE) FOR ALL FIRE PROTECTION SERVICE OUTAGES.

B. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL. FOR GENERAL INFORMATION ONLY AND NOT AN EXACT INDICATOR OF PIPE OR SPRINKLER HEAD LOCATIONS.

C. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET OR EXCEED FORMER CONDITIONS.

D. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS.

E. AREA OF WORK WHERE EXISTING CEILINGS ARE TO BE REMOVED AND NEW FINISHED CEILING TO BE INSTALLED; ALL EXISTING MOUNTED ITEMS SHALL BE REMOVED, STORED AND REINSTALLED IN SAME LOCATION.

F. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES.

G. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC.., ASSOCIATED WITH PIPING REMOVAL.

H. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

I. SMOKE ZONES ARE BASED ON FIELD OBSERVATIONS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO VERIFY SPRINKLER/SMOKE/ FIRE SEPARATIONS.

J. COORDINATE PHASE WORK WITH SEQUENCING DESIGNATED ON DRAWING #GC101.

K. REFER TO FIRE BARRIER LEGEND ON SHEET FA001.

L. DURING DEMOLITION, WHERE COMPLETION OF A/S HEAD CHANGEOUT CANNOT BE COMPLETED IN A SINGLE WORK PERIOD, ONE OF THE TWO FOLLOWING METHODS WILL BE PLACED INTO OPERATION:

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3. NOTE: NO USED AUTOMATIC SPRINKLER HEAD SHALL BE RE-USED. ALL AUTOMATIC SPRINKLERS REMOVED FROM THE SYSTEM SHALL BE DISPOSED OF.

[X] FIRE PROTECTION KEY NOTES

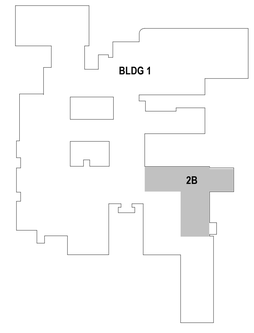
1. DISCONNECT AND REMOVE EXISTING FLOOR CONTROL ASSEMBLY PIPING AND DEVICES.

N

1 **FIRE PROTECTION - DEMOLITION SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA B**

3/16" = 1'-0"

0 4' 8' 12'



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Bancroft Project No. 23-135

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ALABAMA LICENSED 30782 PROFESSIONAL ENGINEER STEPHEN M. TAMBURELLO

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION - DEMOLITION SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA B	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director		Location: BIRMINGHAM VAMC	Drawing Number: FAD102B
		Issue Date: 05/15/2026 / Checked: BY / Drawn: PR	

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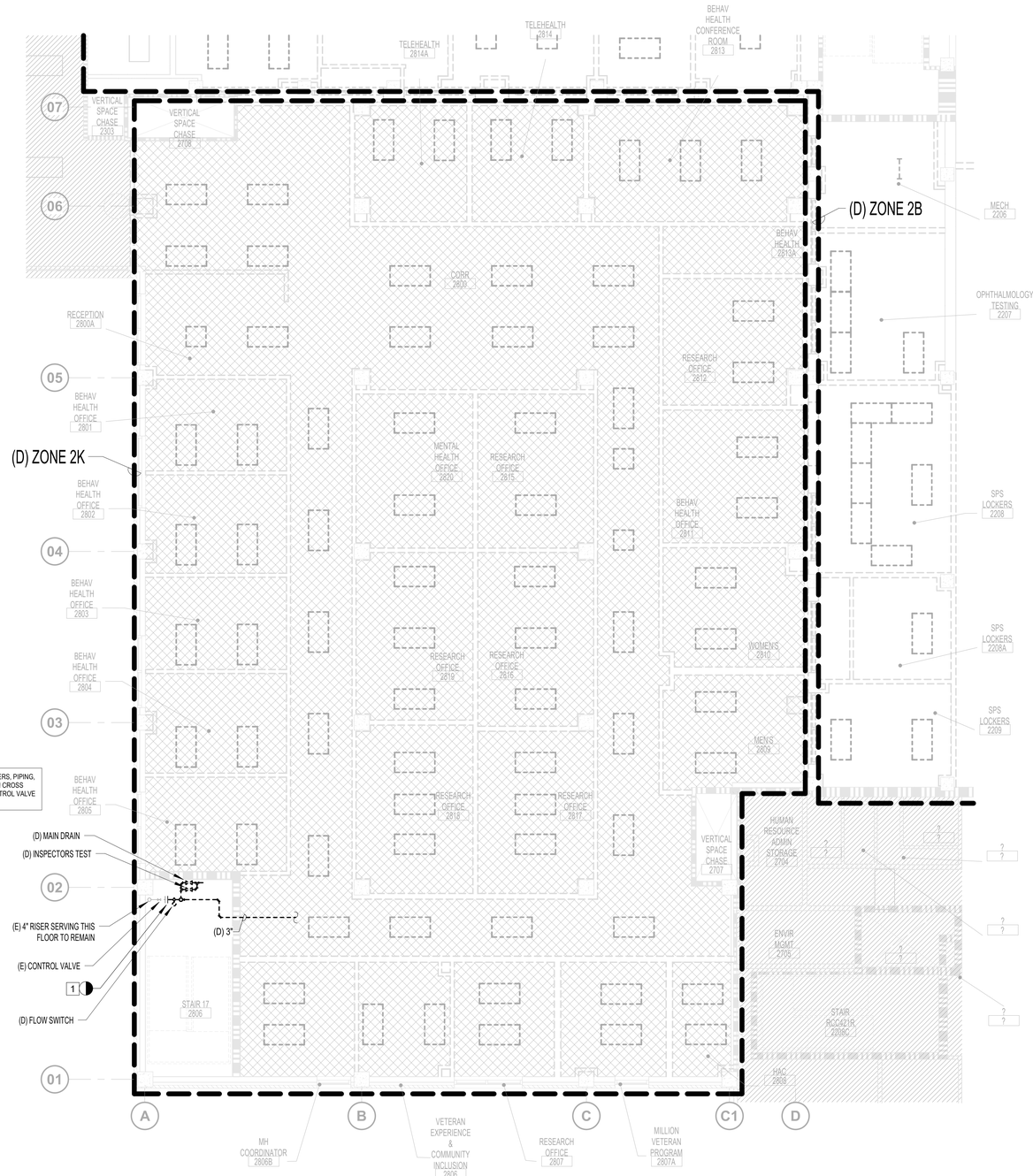

N

1 FIRE PROTECTION - DEMOLITION SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA K

3/16" = 1'-0"

0 4' 8' 12'

FIRE PROTECTION DEMOLITION GENERAL NOTES

A. FIRE PROTECTION CONTRACTOR TO COORDINATE WITH (VA COR) (OWNER'S REPRESENTATIVE) FOR ALL FIRE PROTECTION SERVICE OUTAGES.

B. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL. FOR GENERAL INFORMATION ONLY AND NOT AN EXACT INDICATOR OF PIPE OR SPRINKLER HEAD LOCATIONS.

C. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET OR EXCEED FORMER CONDITIONS.

D. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS.

E. AREA OF WORK WHERE EXISTING CEILINGS ARE TO BE REMOVED AND NEW FINISHED CEILING TO BE INSTALLED; ALL EXISTING MOUNTED ITEMS SHALL BE REMOVED, STORED AND REINSTALLED IN SAME LOCATION.

F. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH CEILING DISASSEMBLY AND REASSEMBLY TO ACCOMMODATE THIS WORK. CONTRACTOR TO SALVAGE, STORE, AND REINSTALL ALL CEILING MOUNTED DEVICES.

G. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC.,, ASSOCIATED WITH PIPING REMOVAL.

H. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

I. SMOKE ZONES ARE BASED ON FIELD OBSERVATIONS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO VERIFY SPRINKLER/SMOKE/ FIRE SEPARATIONS.

J. COORDINATE PHASE WORK WITH SEQUENCING DESIGNATED ON DRAWING #GC101.

K. REFER TO FIRE BARRIER LEGEND ON SHEET FA001.

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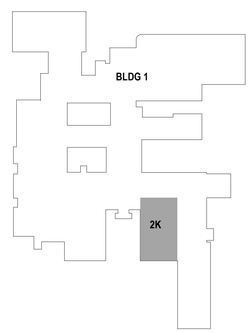
X FIRE PROTECTION KEY NOTES

1. DISCONNECT AND REMOVE EXISTING FLOOR CONTROL ASSEMBLY PIPING AND DEVICES.



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ALABAMA LICENSED PROFESSIONAL ENGINEER STEPHEN M. TAMBURELLO

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title FIRE PROTECTION - DEMOLITION SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA K	**Phase** ISSUED FOR BID	**Project Title** RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	**Project Number** 521-24-102
			Building Number #1
Approved: Project Director		**Location** BIRMINGHAM VAMC	**Drawing Number** FAD102K
		Issue Date 05/15/2026 / **Checked** BY / **Drawn** PR	

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FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

HAZARD SYMBOL	HAZARD CLASSIFICATION	SPACE TYPE	DISCHARGE DENSITY	REMOTE AREA	MAXIMUM COVERAGE AREA PER SPRINKLER	MAXIMUM SPACING	WATER SUPPLY DURATION	OUTSIDE HOSE ALLOWANCE	TEMPERATURE CLASSIFICATION	REMARKS	NOTES
			GPM/FT²	FT²	FT²	FT.	MINUTES	GPM			
	LIGHT HAZARD	PUBLIC AREAS OFFICE ARES CONFERENCE ROOMS BREAK ROOM CORRIDOR LOCKER ROOM TOILET ROOM	0.10	1,500	225	15	30	100	ORDINARY		1
		PATIENT HOLDING EXAM ROOMS	0.10	1,500	225	15	30	100	ORDINARY		1
		DATA CENTERS TR ROOMS	0.10	1,500	225	15	30	100	ORDINARY	OR STD RESPONSE SPRINKLER WITH FUSIBLE LINK	1
	ORDINARY HAZARD GROUP 1	MECHANICAL EQUIPMENT RM. ELEC EQUIPMENT RM. ELECTRICAL CLOSET RM. HOUSEKEEPING CLOSET	0.15	1,500	130	15	60-90	250	INTERMEDIATE		1
	ORDINARY HAZARD GROUP 2	STORAGE	0.20	1,500	130	15	60-90	250	ORDINARY		1
	NA	EXISTING SPRINKLERS TO BE DEMOLISHED	NA	NA	NA	NA	NA	NA	NA		NA
	NA	NOT IN SCOPE	NA	NA	NA	NA	NA	NA	NA		NA

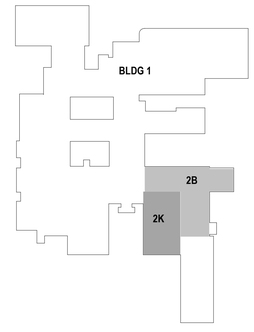
NOTES:

1. WATER DEMAND REQUIREMENTS ARE FOR HYDRAULIC CALCULATION METHOD. IF OTHER METHOD IS USED ADJUST VALUES ACCORDING TO NFPA 13 REQUIREMENTS.

N

1 **FIRE PROTECTION - NEW WORK SPRINKLER PLAN - OVERALL SECOND FLOOR**

1/8" = 1'-0"



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VA U.S. Department of Veterans Affairs

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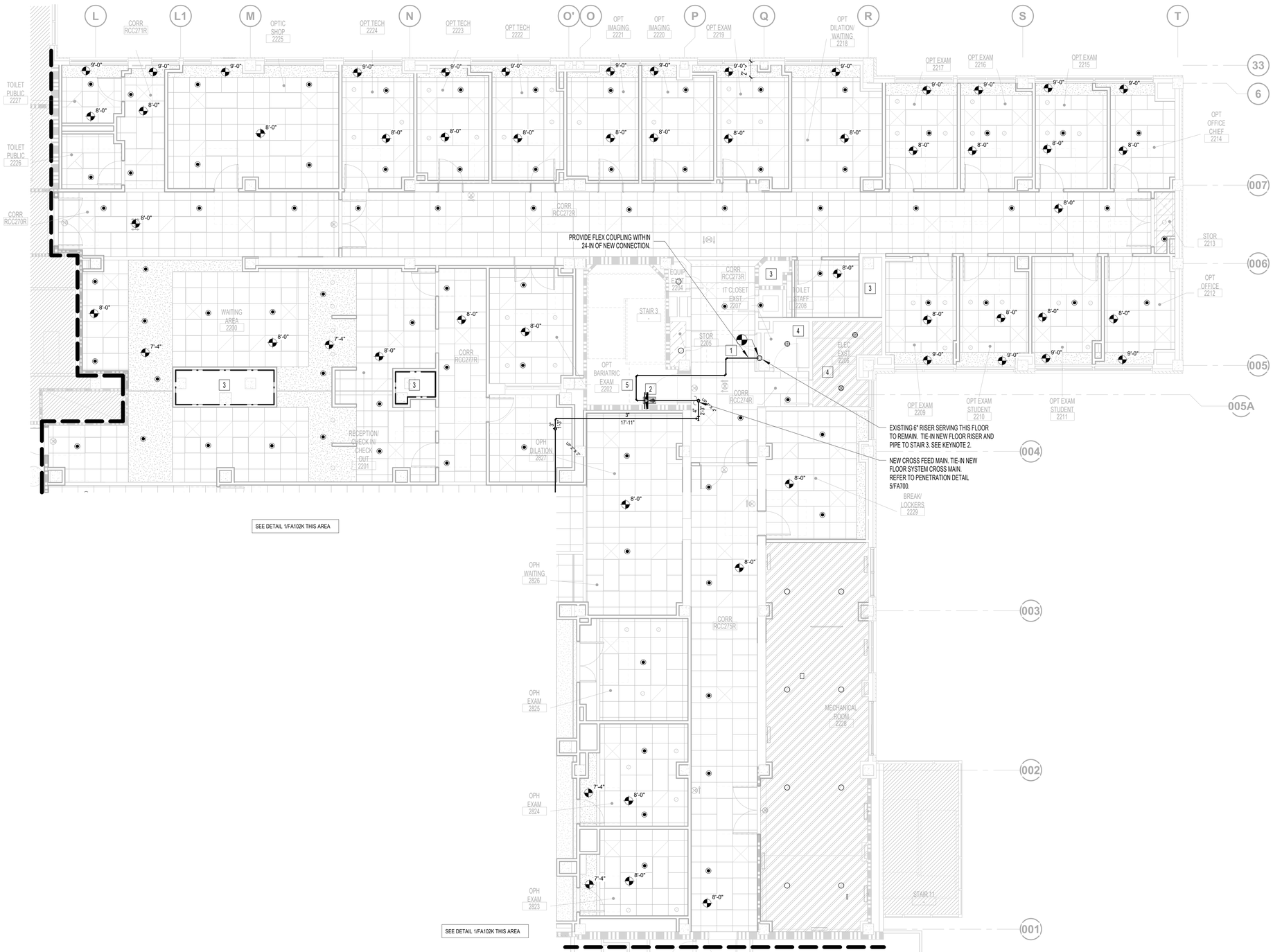

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B. DESIGN TO BE IN ACCORDANCE WITH THE VA FIRE PROTECTION DESIGN MANUAL, DATED NOVEMBER 1, 2023 AND THE EDITION OF NATIONAL FIRE PROTECTION STANDARD #13 IN EFFECT WHEN THE DESIGN CONTRACT WAS EXECUTED.

C. CONTRACTOR TO PROTECT EXISTING HEADS DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.

D. CONTRACTOR SHALL PROVIDE A NEW FEED MAIN, FLOOR CONTROL VALVE, SYSTEM FLOW SWITCH, INSPECTOR'S TEST, DRAIN, CROSS MAIN, AND BRANCH LINE PIPING SERVING NEW SPRINKLER LOCATIONS WITH RIGID PIPE CONNECTIONS OR FLEXIBLE HOSE CONNECTIONS ATTACHED TO ARM OVER CONNECTIONS, DROPS, OR BRANCH LINES AS NECESSARY, PER FIELD CONDITION, SEE DETAIL 6/FA701. SYSTEM TO BE HYDRAULICALL CALCULATED IN ACCORDANCE WITH NFPA 13. SHOW ALL PIPING ON SHOP DRAWING SUBMITTAL. CONNECT CROSS MAIN TO NEW FLOOR CONTROL ASSEMBLY AS NOTED ON THE DRAWINGS.

E. CONTRACTOR SHALL PROVIDE HANGING AND SEISMIC BRACING IN ACCORDANCE WITH NFPA 13.

F. MECHANICAL SYSTEM DIFFUSERS AND REGISTERS, LIGHTING FIXTURES AND OTHER CEILING MOUNTED PRODUCTS ARE SHOWN FOR CONCEPT ONLY. COORDINATE LOCATION AND TYPE WITH MECHANICAL AND ELECTRICAL DISCIPLINE DRAWINGS.

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4. CONTRACTOR TO FIELD VERIFY EXISTING SPRINKLER AT STAIR LANDING. IF PRESENT, UTILIZE EXISTING SPRINKLER AND PIPITNG TO TIE INTO NEW OVERHEAD SPRINKLER SYSTEM.

FIRE PROTECTION KEYNOTES

1. CONNECT NEW FLOOR FIRE SERVICE TO EXISTING 6" RISER.
2. INSTALL NEW HORIZONTAL FLOOR CONTROL, INSPECTOR'S TEST, AND DRAIN ASSEMBLY AT CEILING. SEE 9/FA700 FOR DETAIL.
3. CONCEALED SPACES OF NONCOMBUSTIBLE AND LIMITED-COMBUSTIBLE CONSTRUCTION WITH MINIMAL COMBUSTIBLE LOADING HAVING NO ACCESS SHALL NOT REQUIRE SPRINKLER PROTECTION.
4. PROVIDE STANDARD RESPONSE SPRINKLER WITH FUSIBLE LINK IN ELECTRICAL ROOM.
5. CONTRACTOR TO FIELD VERIFY EXISTING SPRINKLER AT STAIR LANDING. IF PRESENT, REUSE EXISTING SPRINKLER AND PIPING TO TIE INTO NEW OVERHEAD SPRINKLER SYSTEM.

N

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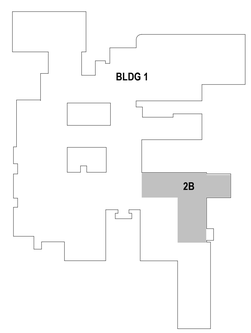
3/16" = 1'-0"

0 4' 8' 12'



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ALABAMA LICENSED 26782 PROFESSIONAL ENGINEER STEPHEN M. TAMBURELLO

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title FIRE PROTECTION - NEW WORK SPRINKLER PLAN - PARTIAL SECOND FLOOR - AREA B

Approved: Project Director

Phase ISSUED FOR BID

Project Title RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location BIRMINGHAM VAMC

Issue Date 05/15/2026 | **Checked** BY | **Drawn** PR

Project Number 521-24-102

Building Number #1

Drawing Number FA102B

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SEE DETAIL 1/FA102B THIS AREA

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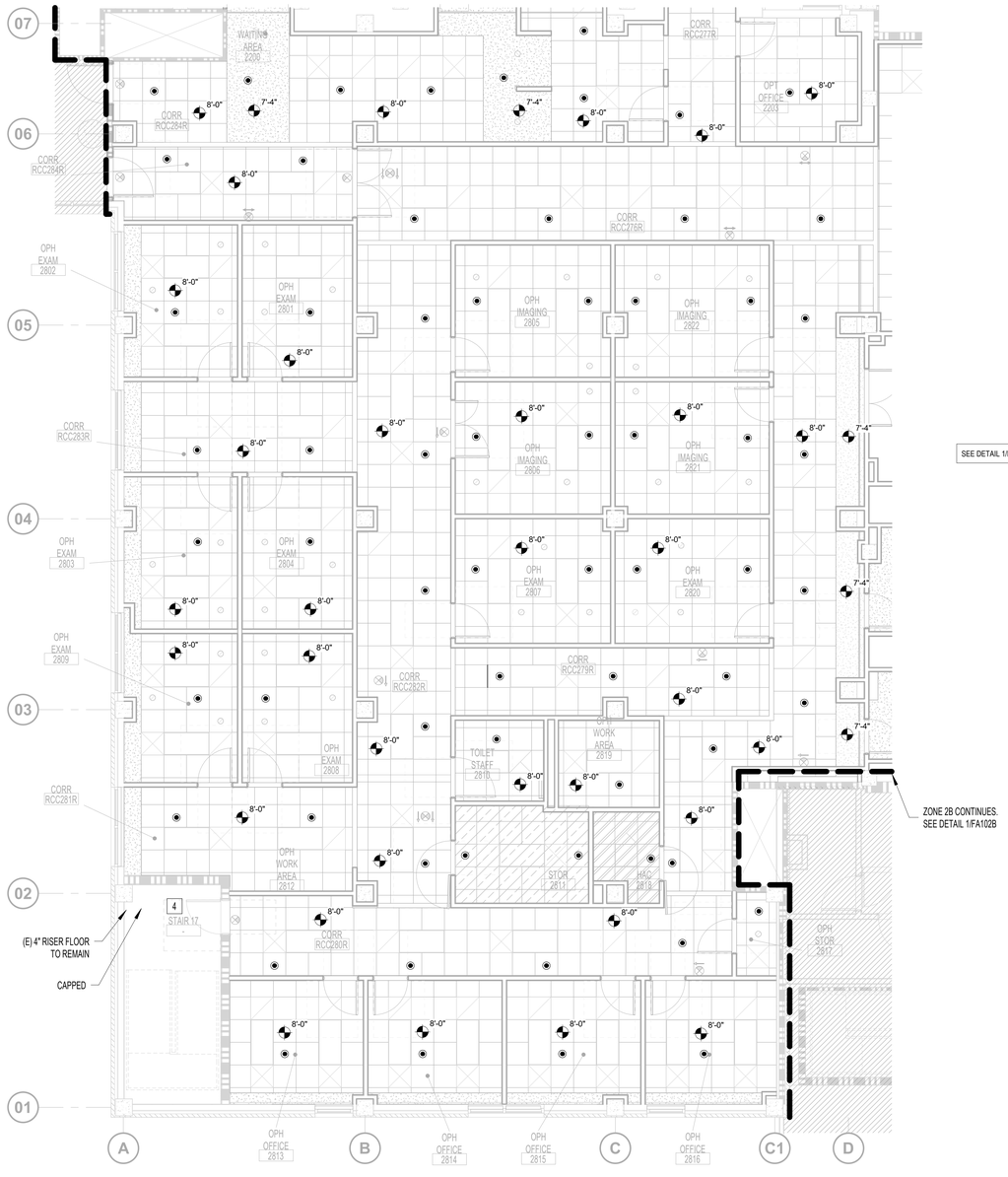

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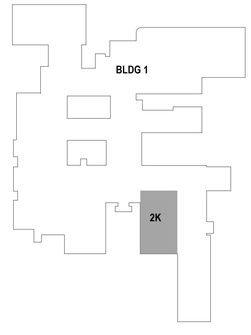

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U.S. Department of Veterans Affairs

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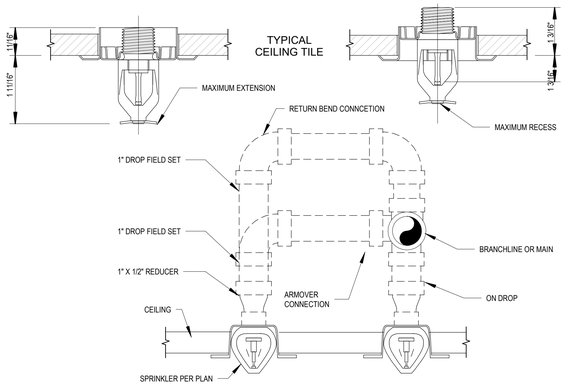
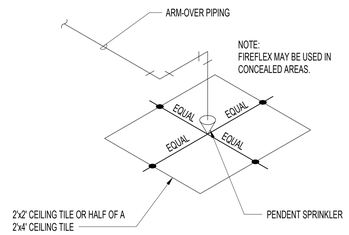
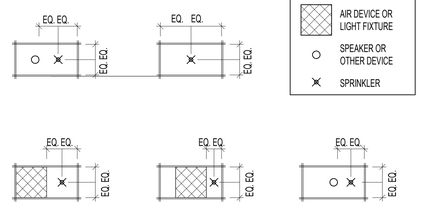


7 SPRINKLER - RIGID PIPE CONNECTION

NOT TO SCALE

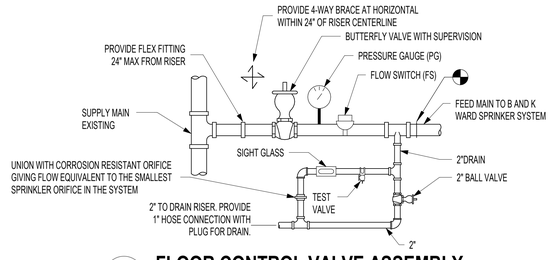




SPRINKLERS IN GRID CEILING SYSTEMS SHALL BE LOCATED AT THE MIDPOINT OR QUARTER POINT OF THE FOUR FOOT (4') DIMENSION AND THE MIDPOINT OF THE TWO (2') DIMENSION. WHERE A CONFLICT OCCURS, SYMMETRY ABOUT THE AXIS SHALL BE MAINTAINED.

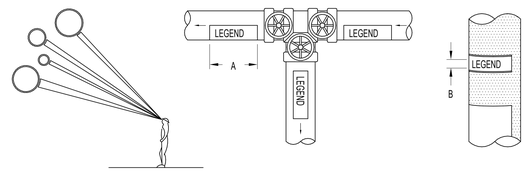
8 TYPICAL CEILING SPRINKLER ARM

NOT TO SCALE



9 FLOOR CONTROL VALVE ASSEMBLY

NOT TO SCALE



NOTE:
IDENTIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS AND AT ALL VALVES AND BRANCHES AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH SAME. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MAKER INDICATING DIRECTION OF FLOW.

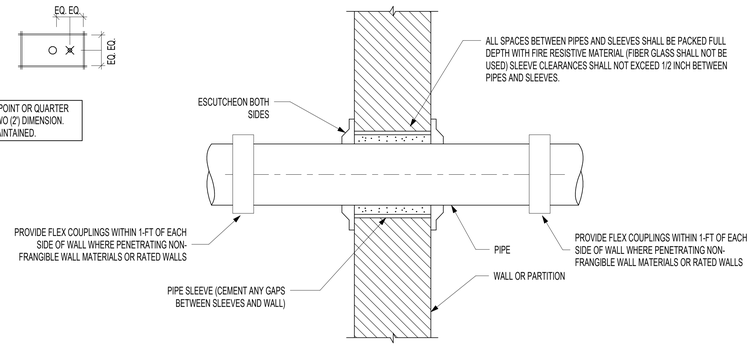
SIZE OF LEGEND LETTERS

OUTSIDE DIAMETER OF PIPE OR COVERING	LENGTH OF COLOR FIELD A	SIZE OF LETTERS B
3/4" TO 1-1/4"	8"	1/2"
1-1/2" TO 2"	8"	3/4"
2-1/2" TO 6"	12"	1-1/4"
8" TO 10"	24"	2-1/2"
OVER 10"	32"	3-1/2"

LABEL	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
FIRE PROTECTION (ZONE #) (ALL ZONES TO BE NUMBERED)	RED	WHITE ON RED

4 TYPICAL PIPE IDENTIFICATION MARKERS

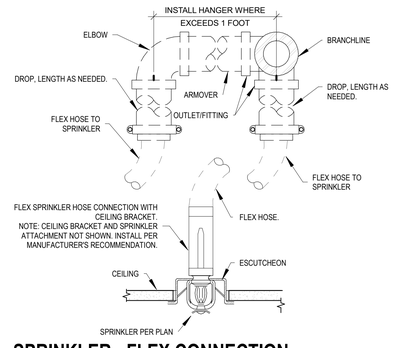
NOT TO SCALE



NOTE:
1. REFER TO SPECIFICATIONS ARTICLE ENTITLED "BASIC PIPING MATERIALS AND METHODS".

5 PIPE PENETRATION

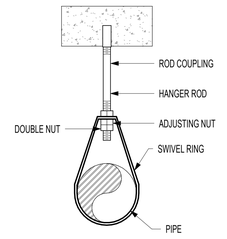
NOT TO SCALE



NOTE:
1. MAX FLEX HOSE LENGTH, NUMBER OF BENDS, AND BEND RADIUS SHALL NOT EXCEED MANUFACTURER RECOMMENDATION.
2. PER NFPA 13, 17.4.1.3.3 - WHERE FLEXIBLE SPRINKLER HOSE FITTING EXCEEDS 6'-0" IN LENGTH AND ARE SUPPORTED BY THE SUSPENDED CEILING, A HANGER ATTACHED TO THE STRUCTURE SHALL BE INSTALLED SO THAT THE MAXIMUM UNSUPPORTED LENGTH DOES NOT EXCEED 6'-0".
3. PER NFPA 13 17.3.1.3.3.4, INCLUDE LABEL ON THE ANCHORING COMPONENT LIMITING RELOCATION OF THE SPRINKLER. REFERENCE NFPA 13, A17.3.1.3.3.4 FOR EXAMPLE VERBIAGE.

6 SPRINKLER - FLEX CONNECTION

NOT TO SCALE



HANGER "A" EXPANSION ANCHOR

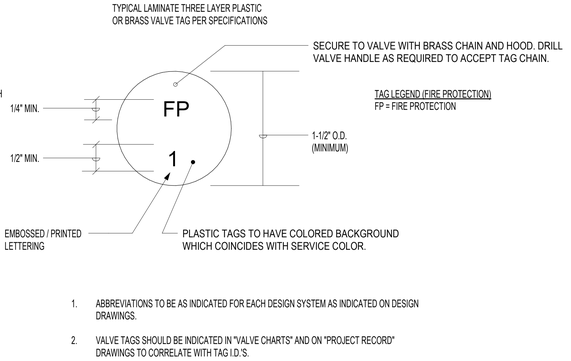
HANGER INSTALLATION REQUIREMENTS

	MAXIMUM DISTANCE BETWEEN HANGERS							
NOMINAL PIPE SIZE	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
STEEL PIPE (EXCEPT TREADED LIGHT WALL)	12' 0"	12' 0"	15' 0"	15' 0"	15' 0"	15' 0"	14' 0"	15' 0"
STEEL PIPE TREADED LIGHT WALL	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	-	-

NOTES:
1. 100 PSI STATIC PRESSURE ON SYSTEM REQUIRES UP-LIFT RESTRAINT WITHIN 12 INCHES HORIZONTALLY OF HEAD FOR ARM-OVERS AND END OF BRANCH LINE.
2. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER.
3. THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24" "MANY CODES AND SPECIFICATIONS REQUIRE PIPE HANGERS TO BE SPACED EVERY 10 FT (3.05M) REGARDLESS OF SIZE. CHECK LOCAL CODES.

1 TYPICAL PIPE HANGER

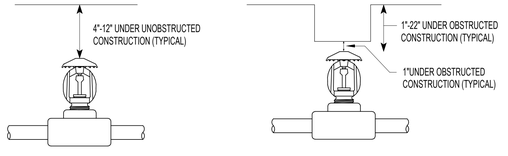
NOT TO SCALE



1. ABBREVIATIONS TO BE AS INDICATED FOR EACH DESIGN SYSTEM AS INDICATED ON DESIGN DRAWINGS.
2. VALVE TAGS SHOULD BE INDICATED IN "VALVE CHARTS" AND ON "PROJECT RECORD" DRAWINGS TO CORRELATE WITH TAG I.D.'S.

2 VALVE DETAIL & VALVE CHART FORMAT EXAMPLE

NOT TO SCALE



3 TYPICAL SPRINKLER FROM DECK OR OBSTRUCTION

NOT TO SCALE

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS SUBMISSION	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
65% DESIGN DEVELOPMENT SUBMISSION	**09/08/2025**
Revisions:	**Date:**

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PROJECT NO. 33680

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Bancroft Project No. 23-135

STAMP

ALABAMA LICENSED PROFESSIONAL ENGINEER
STEPHEN M. TAMBURELLO

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRE PROTECTION - DETAILS

Phase
ISSUED FOR BID

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number
521-24-102

Building Number
#1

Approved: Project Director

Location
BIRMINGHAM VAMC

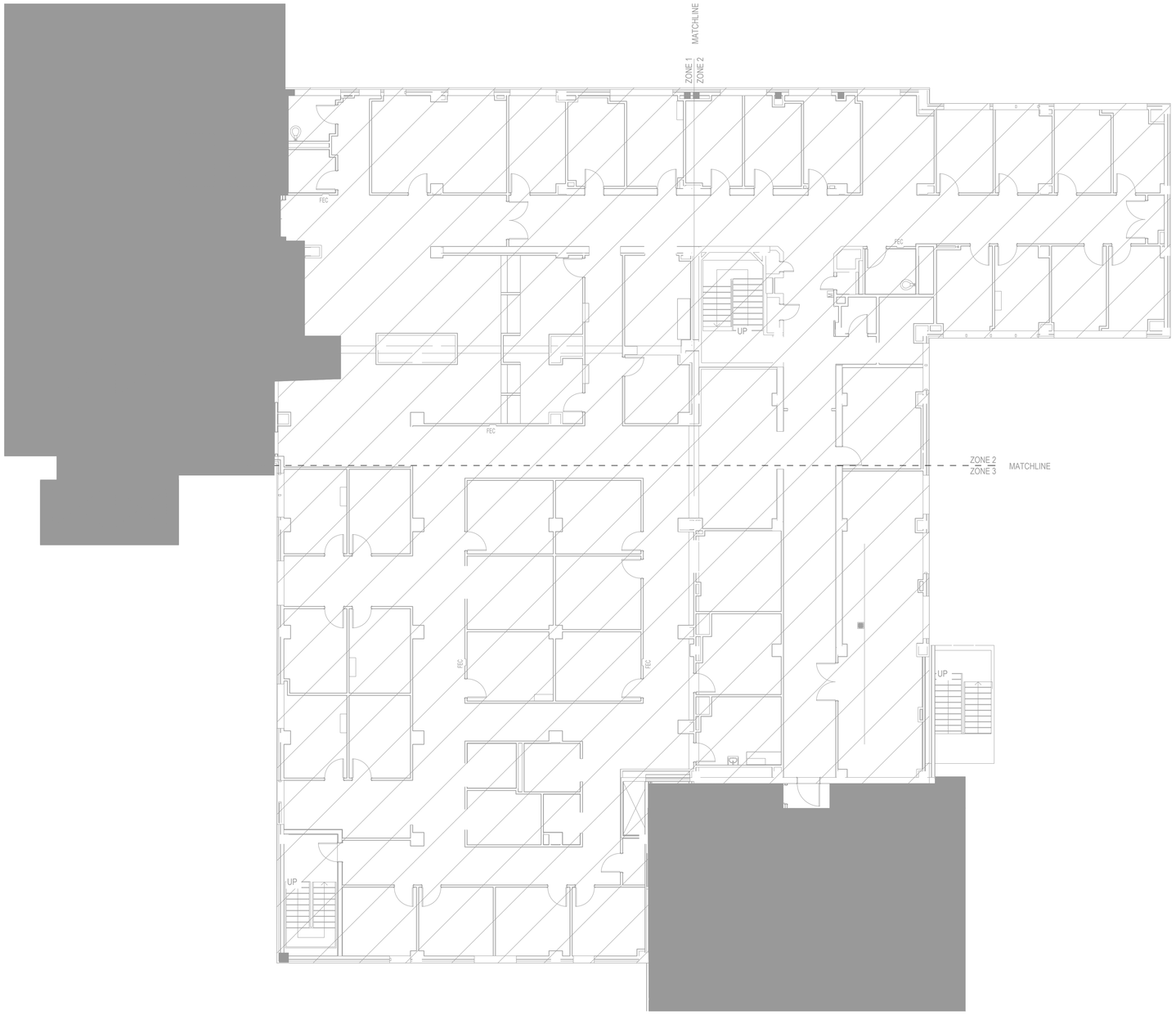
Issue Date
05/15/2026

Checked
BY

Drawn
PR

Drawing Number
FA700

VA FORM 08-6231



ELECTRICAL GENERAL NOTES

A. FIRE ALARM WIRING SHALL COMPLY WITH NEC ARTICLE 760.135. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN RACEWAY SEPARATE FROM ALL OTHER SYSTEM .

B. ALL MODIFICATION TO THE FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, 2022 EDITION AND SPECIFICATION 28 31 00.

C. CERTIFIED FIRE ALARM CONTRACTOR SHALL VERIFY THE DEVICE LAYOUT PLACEMENT, PROVIDE TESTING AND CERTIFICATION FOR PROPER OPERATION OF COMPLETE SYSTEM PRIOR TO COMPLETION OF PROJECT.

D. COORDINATE WITH VA/COR FOR THE LOCATION OF FIRE ALARM GRAPHIC CENTER AND UPDATE EXISTING FIRE ALARM AUTOMATION PANEL AND MONITORING STATION WITH CURRENT GRAPHICS TO REFLECT THE PROPER FLOOR PLAN AND LAYOUT OF DEVICES.

E. ALL PROGRAMMING MODIFICATIONS TO THE EXISTING NETWORK FIRE ALARM SYSTEM SHALL BE PERFORMED BY A FIRE ALARM TECHNICIAN QUALIFIED BY THE MANUFACTURER TO PERFORM WORK ON NOTIFIER NETWORK FIRE ALARM SYSTEM. PROGRAMMING MODIFICATIONS SHALL INCLUDE UPDATING GRAPHIC FLOOR PLAN INFORMATION AT THE FIRE ALARM SYSTEM GRAPHIC WORKSTATION.

F. GC'S CERTIFIED FIRE ALARM CONTRACTOR SHALL RUN THE CALCULATION FOR ALL NOTIFICATION APPLIANCES POWER DRAW, VOLTAGE DROP, AND VERIFY CANDELA REQUIREMENTS AND PROVIDE NEW NAC/EXTENDER PANELS REQUIRE TO SUPPLY ALL NOTIFICATION APPLIANCES SHOWN ON THE PLANS.

G. UNLESS OTHERWISE NOTED ALL THE STROBES ARE 15 CD.

H. NEW CIRCUITRY AND CONDUIT SYSTEMS SHALL BE PROVIDED AND INSTALLED FOR A COMPLETE OPERATING SYSTEM. ALL FIRE ALARM CIRCUITRY SHALL BE INSTALLED IN CONDUIT . NEW CONDUIT INSTALLED SHALL BE PAINTED RED.

I. CONTRACTOR SHALL COORDINATE WITH NEW SYSTEM WITH ACTIVE CONSTRUCTION PROJECT.

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(#) ELECTRICAL KEY NOTES

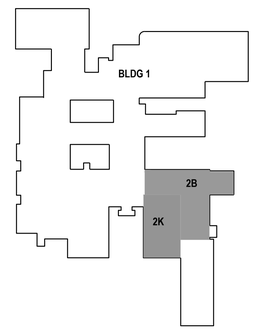
1. DUCT SMOKE DETECTOR SHALL BE PROVIDED IN ACCORDANCE WITH MECHANICAL CODE IN ACCESSIBLE LOCATION. REFER TO MECHANICAL DRAWINGS FROM DUCT SMOKE DETECTOR LOCATION. PROVIDE CONNECTION TO FIRE ALARM PANEL LOCATED IN G114. PROVIDE CONTROL MODULE AND INTERLOCK WITH AHU SHUT DOWN WHEN ACTIVATED. PROVIDE REMOTE TEST STATION WITH INDICATING LAMP FOR EACH DUCT SMOKE DETECTOR IN AN ACCESSIBLE LOCATION, COORDINATE WITH THE VA FOR EXACT LOCATION.

N

1 ELECTRICAL - FIRE ALARM PLAN - SECOND FLOOR - 2K/2B AREA DEMO PLAN

1/8" = 1'-0"

0 4" 8" 16"



KEYPLAN

ISSUED FOR BID	5/15/2026
100% CONSTRUCTION DOCUMENTS	3/16/2026
95% CONSTRUCTION DOCUMENTS	1/30/2026
65% CONSTRUCTION DOCUMENTS RESUBMITTAL	12/1/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

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VA CONTRACT NO. 36C24724C0036 Bancroft Project No. 23-135

STAMP

ALABAMA LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - FIRE ALARM DEMO PLAN SECOND FLOOR - 2K, 2B AREA

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Project Number: 521-24-102

Building Number: #1

Drawing Number: FAD101

Issue Date: 05/15/26 | Checked: PTP | Drawn: MV

VA FORM 08-6231

ALARM SYMBOLS LEGEND

SYMBOL	QTY	DESCRIPTION
(F) SPS	21	SPEAKER STROBE CEILING
F ST	4	STROBE-WALL
P	2	MANUAL PULL
	1	WATERFLOW
	1	TAMPER
AIM	1	DUAL MONITOR MODULE
	2	DUCT SMOKE DETECTOR
S	6	SMOKE DETECTOR
DH	4	DOOR HOLDER

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G. UNLESS OTHERWISE NOTED ALL STROBES IN TOILET ROOMS ARE 15 CD AND ALL OTHER STROBES ARE 75CD.

H. NEW CIRCUITRY AND CONDUIT SYSTEMS SHALL BE PROVIDED AND INSTALLED FOR A COMPLETE OPERATING SYSTEM. ALL FIRE ALARM CIRCUITRY SHALL BE INSTALLED IN CONDUIT . NEW CONDUIT INSTALLED SHALL BE PAINTED RED.

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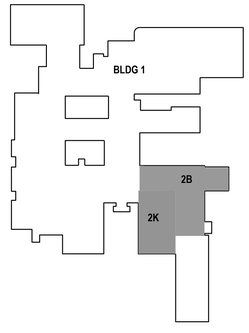

KEYPLAN

N

1 ELECTRICAL - FIRE ALARM PLAN - SECOND FLOOR - 2K/2B AREA

1/8" = 1'-0"

0 4' 8' 16'

ISSUED FOR BID	5/15/2026
100% CONSTRUCTION DOCUMENTS	3/16/2026
95% CONSTRUCTION DOCUMENTS	1/30/2026
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65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

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VA CONTRACT NO. 36C24724C0036 Bancroft Project No. 23-135

STAMP

ALABAMA LICENSED 36760 PROFESSIONAL ENGINEER KRISTEN M. TAMBURELLO

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - FIRE ALARM PLAN - SECOND FLOOR - 2K, 2B AREA

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

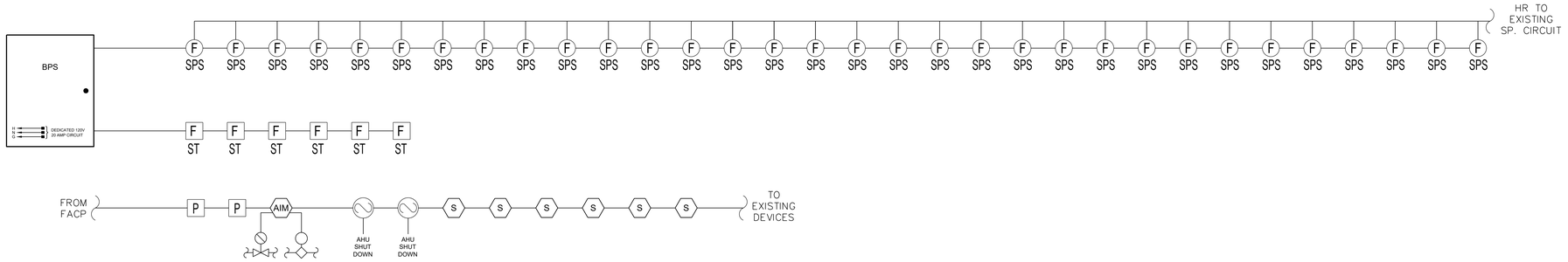
Issue Date: 05/15/26

Checked: PTP

Drawn: MV

Drawing Number: FA101

VA FORM 08-6231



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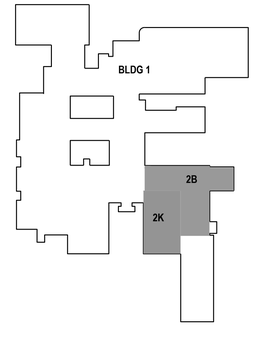
OUTPUT → / INPUT DEVICE ↓	1.SOUND GENERAL BUILDING ALARM FOR OTHER AND NON-HIGH RISE (NON-HEALTHCARE) SEE SECTION 7.2.1	2. NOTIFY FIRE DEPARTMENT	3.INITIATE SUPERVISORY SIGNAL TO A 24-HOUR MANNED POINT FOR IMMEDIATE RESPONSE.	4.CLOSE ASSOCIATED SMOKE BARRIER DOORS ON THE FLOOR.	5.CLOSE DAMPERS ON FAN PROXIMATE TO DETECTOR.	6.SHUT DOWN AIR HANDLER SERVED BY THE DETECTOR.
DUCT SMOKE DETECTOR			X		X	X
AREA SMOKE DETECTOR	X	X				
DOOR RELEASE SMOKE DETECTOR	X	X		X	X	
MANUAL PULL STATION	X	X		X		
SPRINKLER WATERFLOW/PRESSURE SWITCH	X	X				
WATER CONTROL VALVE TAMPER			X			

N

2 ELECTRICAL - FIRE ALARM RISER
NTS



KEYPLAN

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ARCHITECT/ENGINEER OF RECORD

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VA CONTRACT NO. 36C24724C0036 Bancroft Project No. 23-135

STAMP

ALABAMA LICENSED PROFESSIONAL ENGINEER STEPHEN M. TAMBURELLO

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - FIRE ALARM-RISER DIAGRAM SECOND FLOOR - 2K, 2B AREA

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/26 | Checked: PTP | Drawn: MV

Project Number: 521-24-102

Building Number: #1

Drawing Number: FA601

VA FORM 08-6231

PLUMBING GENERAL NOTES

SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL REQUIREMENTS LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AND AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED BELOW.

EQUIVALENCY SUBSTITUTIONS: THE "BASIS OF DESIGN (BOD) PROTOCOLS " ARE TO BE FOLLOWED FOR ALL EQUIPMENT, MATERIALS AND ASSEMBLIES SPECIFIED AND DETAILED THROUGHOUT ALL DRAWINGS AND SPECIFICATION SECTIONS, WHETHER THE BOD DESIGNATE IS SPECIFICALLY REFERENCED THEREIN OR NOT. SEE THE GENERAL DRAWINGS SECTION FOR THE FULL BOD EQUIVALENCY SUBSTITUTION REQUIREMENTS AND PROTOCOLS TO BE FOLLOWED.

1. THIS CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS AND ENTIRE PROJECT SPECIFICATIONS. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF HIS WORK. THIS CONTRACTOR SHALL FULLY COORDINATE HISHER WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK.

2. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE VA/COR AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN THEIR WORK AND THE WORK OF OTHER TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST.

3. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE VA.

4. THE CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, THE WORK SHOWN ON THE DRAWINGS AND PROVIDED IN THE SPECIFICATIONS WITHOUT DEVIATION, WITH THE EXCEPTION OF ANY BASIS OF DESIGN (BOD) EQUIVALENCY SUBSTITUTIONS. THESE REQUESTED SUBSTITUTIONS WILL NEED TO BE IDENTIFIED, SUBMITTED AND APPROVED BY THE VA/CO DURING THE BIDDING PHASE AND IF DURING CONSTRUCTION BY THE VA/COR AND THE VA/CO RESPECTIVELY. CONTRACTOR IS REQUIRED TO PREPARE A DETAILED LIST OF THE PROPOSED EQUIVALENCY SUBSTITUTION ITEMS ALONG WITH THE DOCUMENTED COMPARATIVE ANALYSIS AND THE LISTING OF ALL VARIANCE IMPACTS TO THE PROJECT FOR EACH REQUESTED ITEM OF WORK. EQUIVALENCY SUBSTITUTIONS REQUESTS FOR VA CONSIDERATION WILL FIRST NEED TO BE APPROVED BY THE VA BEFORE PROCEEDING WITH ANY BIDDING AND ANY OF THE WORK. ALL REQUESTED BOD EQUIVALENCY SUBSTITUTIONS WILL FIRST NEED TO BE FULLY REVIEWED, EVALUATED AND APPROVED BY THE VA/CO PRIOR TO BID SUBMISSION AND IF OCCURRING DURING CONSTRUCTION BY THE VA/COR AND IN TURN THE VA/CO BEFORE ANY WORK CAN BE PERFORMED.

5. THIS CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED OR INSTALLED ON THE DRAWINGS, THE DRAWING'S TRADE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL RELATED PURCHASES AND LABOR FOR PROVIDING A COMPLETE OPERATING SYSTEM FOR THIS ITEM.

6. WHEN PERFORMING ANY CUTTING OR PATCHING (RESTORE TO ORIGINAL STATE) ALL BUILDING MATERIALS AND FINISHES AS REQUIRED TO PROVIDE A FINISHED PRODUCT THAT IS LIKE NEW AND DOESN'T STAND OUT AS BEING DIFFERENT OR DISTINGUISHABLE AS A PATCH OR REPAIR.

7. THIS CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING, ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN AS REQUIRED BY THE VA DESIGN GUIDES/MANUALS ALONG WITH THE EXPRESSED DESIGN INTENT PRESENTED WITHIN THESE DOCUMENTS.

8. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND THROUGH FLOORS, INCLUDING CORING IF REQUIRED.

9. PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING SANITARY, STORM AND WATER SUPPLY ON THE SITE PRIOR TO THE PERFORMANCE OF ANY WORK

10. PROVIDE SERVICE VALVES AT ALL BRANCH SUPPLY PIPING. SUCH SERVICE VALVES SHALL BE AS PER THE SPECIFICATIONS AND IN KEEPING WITH THE VA STANDARDS AND REQUIREMENTS.

11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT GOVERNING LOCAL, COUNTY, STATE, AND FEDERAL BUILDING CODE REQUIREMENTS AND REGULATIONS PLUS COMPLIANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.

12. THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP.

13. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF ALL PERSONNEL THRU ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

14. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING OF ALL NEW EQUIPMENT AND MATERIALS FURNISHED BY THIS CONTRACTOR ALONG WITH EQUIPMENT FURNISHED BY THE VA AND INSTALLED BY THIS CONTRACTOR. PROVIDE PROTECTION FROM DAMAGE BY THE CONSTRUCTION, HANDLING, VANDALISM AND WEATHER DURING ALL PHASES OF CONSTRUCTION UNTIL COMPLETION OF THE WORK.

15. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN THE NUMBERS REQUIRED BY THE SPECIFICATIONS PRIOR TO THE START OF INSTALLATION FOR VA/COR APPROVAL AND A SUCCESSFUL REVIEW BY THE ARCHITECT/ENGINEER.

16. THIS CONTRACTOR SHALL FURNISH AS-BUILT CONTRACT DOCUMENTS TO THE VA/COR BEFORE FINAL PROJECT CLOSE-OUT CAN OCCUR. THE CONTRACT RECORD AS-BUILT DOCUMENTS SHALL BE PROVIDED IN ELECTRONIC REPRODUCIBLE FORM.

17. BEFORE PLACING WATER SYSTEM IN OPERATION, CHLORINATE ENTIRE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL PLUMBING CODES ALONG WITH ALL REQUIREMENTS OF THE VA, BOTH FEDERAL AND LOCAL. WHEN PROPERLY COMPLETED AND APPROVED BY THE VA/COR PROVIDE THE SPECIFIED CERTIFICATION(S).

18. ALL NEW SANITARY PIPING SHALL BE GIVEN A FULL STATIC PRESSURE TEST. METHOD OF TEST AND REQUIREMENTS TO BE MET SHALL BE AS PER THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL CODE REQUIREMENTS ALONG WITH ALL REQUIREMENTS OF THE VA, BOTH FEDERAL AND LOCAL.

19. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PUMPING AND DRAINING OF TRENCHES OR PITS NECESSARY FOR THE INSTALLATION OF THEIR WORK.

20. UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF THEIR WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY, LEAVE THE WORK IN NEAT AND CLEAN ORDER, AND PROVIDE A COMPLETED SYSTEM(S) THAT HAS BEEN FULLY TESTED AND IS IN GOOD WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS.

21. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM PER VA SPECIFICATION PLUMBING INSULATION 22 07 11 AND FIRE STOPPING SPECIFICATION 07 84 00.

22. ALL EQUIPMENT/DEVICES SHALL BE AND OF FIRST RATE QUALITY (UNLESS OTHERWISE SPECIFIED) AND IS TO BEAR THE APPROPRIATE AGA, CSA OR UL APPROVED LABELS, LISTINGS, AND CERTIFICATIONS FOR THE SPECIFIC DESIGN PURPOSE.

23. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR ANY AND ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE VA. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, THE VA, ARCHITECT OR ENGINEER OF RECORD TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.

24. GENERAL CONTRACTOR MUST FIELD VERIFY SIZES, CAPACITIES, WEIGHTS, ETC. ON ALL EQUIPMENT. DISCREPANCIES ON DRAWINGS WILL NOT CONSTITUTE A BASIS FOR CHANGE ORDERS. VERIFY WITH ARCHITECT/ENGINEER AND COR IF ANY DISCREPANCIES EXIST.

25. IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.

26. UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, LEAD, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE VA/COR IMMEDIATELY. IF THE CONTRACTOR DISTURBS MATERIAL WITHOUT FIRST NOTIFYING THE COR, THEY ARE RESPONSIBLE FOR ABATEMENT/CONTAINMENT.

PLUMBING MATERIALS AND PROCEDURES NOTES

PLUMBING FIXTURE SCHEDULE

1. THE PLUMBING FIXTURE AND EQUIPMENT SCHEDULE, IN GENERAL, SPECIFIES THE PLUMBING FIXTURES, EQUIPMENT AND DEVICES: HOWEVER, UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL BE PROVIDED WITH APPLICABLE ACCESSORIES (SUCH AS SUPPLY STOPS, WASTE TRAPS, FIXTURE MOUNTING SUPPORTS, BOLT CAPS, WATER CLOSET SEATS, ETC., AS REQ'D TO COMPLETE THE INSTALLATION.)
2. ALL ITEMS SPECIFIED HEREAFTER SHALL BE NEW, CLEANED AND ADJUSTED FOR THE SPECIFIED DESIGN PURPOSE (UNLESS OTHERWISE SPECIFIED).
3. ALL EQUIPMENT AND DEVICES SHALL BEAR AGA, NSF, ASME, ANSI, CSA OR UL APPROVED LABELS AND CERTIFICATIONS FOR THE SPECIFIED DESIGN PURPOSE.
4. PLUMBING CONTRACTOR SHALL VERIFY IN FIELD AND ARCHITECT ALL FINAL FIXTURE AND EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS REQUIRED FOR THE DESIGN PURPOSE.
5. SUBMIT, AS PER THE SPECIFICATIONS, THE NUMBER OF COPIES OF EACH CATALOG CUT, FOR EACH ITEM, TO BE APPROVED BY THE OWNER AND SUCCESSFULLY REVIEWED BY THE ARCHITECT/ENGINEER (PRIOR TO THE BEGINNING OF CONSTRUCTION) FOR ALL NEW ITEMS SPECIFIED HEREAFTER.
6. THE CONTRACTOR SHALL SUBMIT EQUIPMENT CUTS FOR EACH PIECE OF EQUIPMENT PRIOR TO ORDERING. SUBMIT, AS PER THE SPECIFICATIONS, THE NUMBER OF COPIES FOR APPROVAL BY THE OWNER AND SUCCESSFUL REVIEW BY THE ARCHITECT/ENGINEER. THIS CONTRACTOR SHALL ALSO ASSEMBLE PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED AND BIND TOGETHER WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS.

PROCEDURES

1. ALL SUSPENDED HORIZONTAL PIPING SHALL BE SUPPORTED BY HANGERS SPACED NO FURTHER THAN 8' - 0" APART. NO PIPING SHALL BE SELF-SUPPORTING NOR BE SUPPORTED FROM EQUIPMENT CONNECTIONS.
2. ALL PARALLEL PIPES (TWO(2) OR MORE) SHALL BE SUPPORTED ON A CHANNEL TYPE TRAPEZE HANGER.
3. SUPPORTS AND HANGERS SHALL BE INSTALLED TO PERMIT FREE EXPANSION AND CONTRACTION IN PIPING SYSTEMS UNLESS PIPE REQUIRES FIRM ANCHOR CONTROL.
4. HORIZONTAL SOIL OR WASTE LINES SHALL BE AT A SLOPE OF NOT LESS THAN 1/8" PER FOOT AND SHALL BE HELD CLOSE TO THE CONSTRUCTION TO MAINTAIN A MAXIMUM OF HEAD ROOM. ALL CHANGES OF DIRECTION AND JUNCTIONS SHALL BE MADE WITH "Y" FITTINGS AND 1/8" BENDS. NO LINES OF ANY KIND SHALL BE LOCATED BELOW FREEZERS. ALL DRAIN LINES SHALL BE PROTECTED FROM FREEZING.
5. HOT AND COLD WATER PIPING SHALL BE PROPERLY PITCHED TO LOW POINTS IN THE SYSTEM WHERE DRAINS SHALL BE INSTALLED.
6. CLEANOUTS SHALL BE PLACED AT ALL DEAD ENDS, AT 90° CHANGES OF DIRECTION, AT 50'-0" INTERVALS ON HORIZONTAL RUNS, OUT OF HIGH TRAFFIC AREAS. (NOT UNDER CASES) ETC. WHERE CLEANOUTS OCCUR IN CONCEALED SPACES, THEY SHALL BE PROVIDED WITH EXTENSIONS TO FLOOR ABOVE OR TO WALLS. A HAND-HOLE TEST TEE SHALL BE PLACED AT THE BASE OF EACH STACK.
7. VENT STACKS EXTENDING UP THROUGH THE ROOF SHALL BE FLASHED WITH SIX POUND SHEET LEAD. FLASHING SHALL EXTEND 12" IN ALL DIRECTIONS FROM THE VENT, CARRIED OVER AND TURNED DOWN THE INSIDE OF THE VENT. ALL SEAMS AND JOINTS OF FLASHING SHALL BE SOLDERED AND PROVEN WEATHERTIGHT. EXTEND VENTS A MIN. OF 12" ABOVE ROOF, AND 30" AWAY FROM PARAPET.
8. ALL SUPPLY PIPING TO BE RUN OVERHEAD, UNLESS NOTED OTHERWISE.
9. ALL SUPPLY PIPING TO BE A MINIMUM OF 3/4" DIA.
10. EACH FIXTURE WILL HAVE WATER HAMMER ARRESTORS.
11. PROVIDE SERVICE VALVE AT BRANCHES AND AT ALL APPLIANCES.
12. ALL FIXTURES WILL BE FURNISHED WITH INTEGRAL STOPS.
13. BURIED SANITARY AND WASTE LINES WILL BE A MINIMUM OF 4" DIA.
14. ALL FLOOR DRAINS AND FIXTURES TO BE VENTED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
15. ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FINISHED CEILINGS AND SLOPED UP TOWARD MAIN STACK.
16. THE PLUMBING CONTRACTOR WILL NOT INSTALL COMBUSTIBLE PIPING MATERIAL IN OR THROUGH FIRE RATED ASSEMBLIES.
17. ALL EQUIPMENT DEVICES SHALL BE INSTALLED WITH UNIONS IN SUCH A MANNER TO FACILITATE EASY REMOVAL AND MAINTENANCE OF EQUIPMENT WITHOUT DISRUPTING SERVICE AND CAUSING MAJOR PIPING REVISIONS.
18. ALL CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.

PLUMBING SYMBOL LIST

THESE LISTS OF SYMBOLS AND ABBREVIATIONS ARE GENERAL. NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE APPLICABLE TO THIS PROJECT

SYMBOL	DESCRIPTION
(A)	ABANDON IN PLACE
A/E	ARCHITECT / ENGINEER
AFF	ABOVE FINISH FLOOR
AS	AIR SEPERATOR
BFP	BACKFLOW PREVENTER
BOD	BASIS OF DESIGN
CD	CONDENSATE DRAIN
CI	CAST IRON
CO	CLEANOUT
CW	DOMESTIC COLD WATER
(D)	DEMOLISH AND REMOVE
DI	DEIONIZATION
DN	DOWN
DT	DRAIN TILE
(E)	EXISTING TO REMAIN
EL	ELEVATION
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FBO	FURNISHED BY OTHERS, INSTALLED BY PLUMBING CONTRACTOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FT	FLOOR TROUGH
GI	GREASE INTERCEPTOR
GLY	GLYCOL
HB	HOSE BIBB
HUM	HUMIDIFIER
HW	DOMESTIC HOT WATER
HWC	HOT WATER CIRCULATION
KSAN	KITCHEN SANITARY
LAV	LAVATORY
MB	MOP BASIN
RD	ROOF DRAIN
RO	REVERSE OSMOSIS
SAN	SANITARY
SCW	SOFT COLD WATER
SEP	SEWAGE EJECTOR PUMP
SHW	SOFT HOT WATER
SHWC	SOFT HOT WATER CIRCULATION
SK	SINK
ST	STORM
TD	TRENCH DRAIN
TYP	TYPICAL
UR	URINAL
UGSAN	UNDERGROUND SANITARY
VB	VACUUM BREAKER (ATMOSPHERIC)
V	VENT
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
	DIRECTION OF FLOW
	CLEANOUT
	PIPE CONTINUATION
	RISER DOWN
	RISER UP
	CONNECT TO EXISTING (NEW CONNECTION)
	POINT OF DEMOLITION
	UNION
	VALVE
	BALL VALVE
	BALANCING VALVE
	CHECK VALVE (DIRECTION OF FLOW)
	VACUUM BREAKER
	HOSE BIBB
	EQUIPMENT TAG
	EQUIPMENT (PROVIDED BY OTHERS)
X / X	EXISTING RISER TAG

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100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

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05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

Phase: ISSUED FOR BID

Approved: Project Director

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

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Drawn: HS

Project Number: 521-24-102

Building Number: #1

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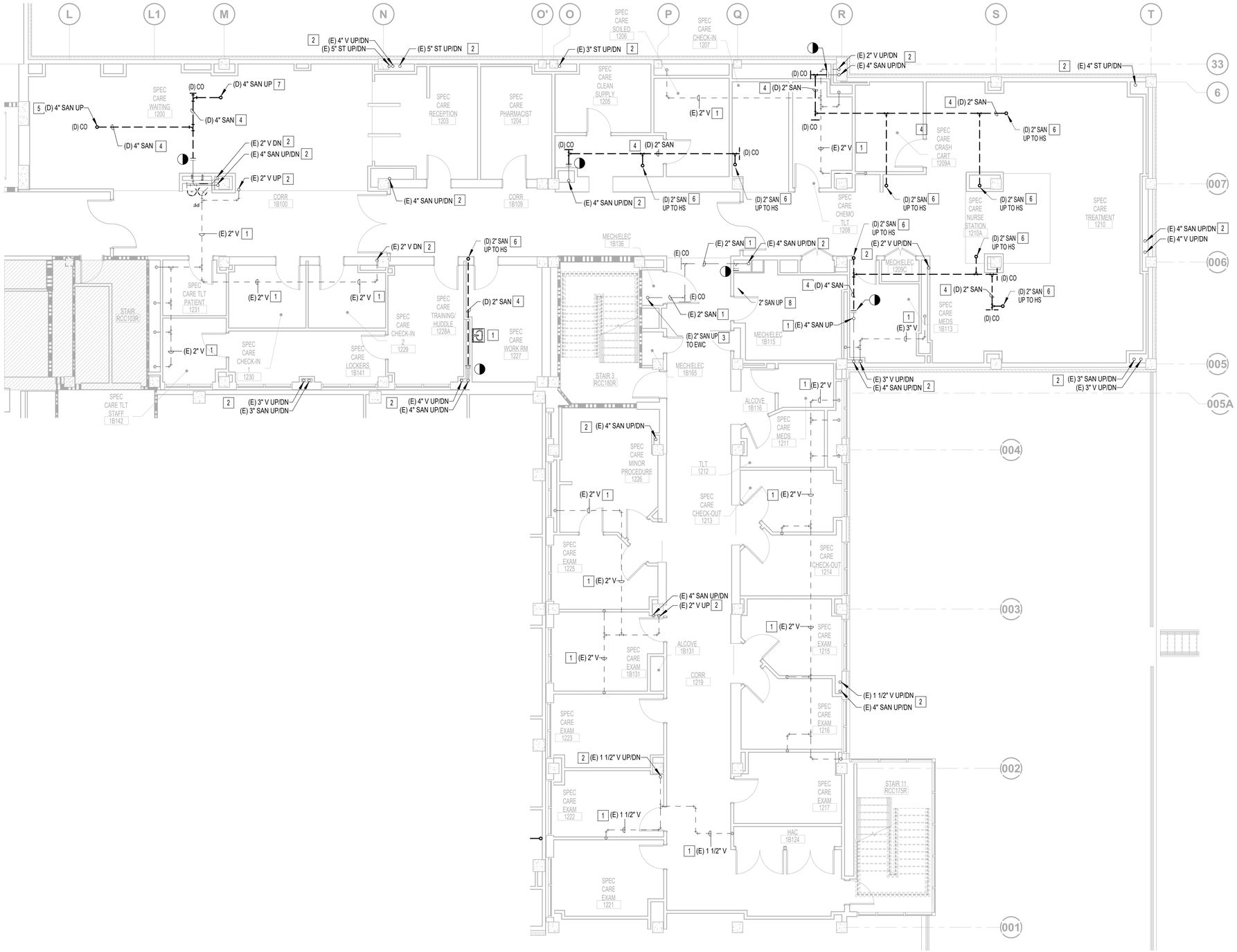

PLUMBING GENERAL NOTES

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B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET OR EXCEED FORMER CONDITIONS.

D. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. ALL EXISTING MOUNTED ITEMS SHALL BE REMOVED, STORED, AND REINSTALLED IN SAME LOCATION. COORDINATE WITH COR AND OTHER TRADES.

E. CONTRACTOR SHALL ENSURE CONTINUOUS SERVICE TO ALL MAIN SAN AND VENT STACKS TO FLOORS ABOVE AND BELOW DURING CONSTRUCTION.

F. ABANDONED AND/OR DEAD LEG DOMESTIC WATER PIPING WILL NOT BE ALLOWED AND SHALL BE REMOVED EVEN IF NOT SHOWN ON DRAWINGS.

G. ALL DOMESTIC PIPING BEING DEMOLISHED TO MAIN SHALL BE CAPPED AT 1.5X THE DIAMETER OF BRANCH PIPING. NO DEAD END OR STUBS ARE ALLOWED IN DOMESTIC WATER PIPING. ALL DEAD END PIPING MUST BE REMOVED AND CAPPED.

H. REMOVE ALL ASSOCIATED VALVING, CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING REMOVAL.

I. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

J. ALL ASSOCIATED PIPING SHALL INCLUDE BUT NOT BE LIMITED TO CW, HW, HWC, SANITARY, AND VENT PIPING.

K. PATCH AND FILL CONCRETE SLAB WHERE DOMESTIC WATER, SANITARY AND VENT PIPING HAVE BEEN REMOVED OR PLUGGED.

L. PIPING AND EQUIPMENT SHOWN ON THIS DRAWING WAS BASED ON AS-BUILT DOCUMENTATION PROVIDED BY THE VA AND A CURSORY ON SITE REVIEW OF EXISTING CONDITIONS. IF IT IS DISCOVERED THAT ANY PIPING OR EQUIPMENT, INDICATED TO BE DEMOLISHED, SERVES OTHER AREAS BEYOND THIS PROJECT SCOPE, THE CONTRACTOR MUST IMMEDIATELY STOP DEMOLITION OF SAID PIPING OR EQUIPMENT. NOTIFY THE COR AND ENGINEER AND WAIT FOR FURTHER INSTRUCTIONS.

[X] PLUMBING DEMOLITION KEYNOTES

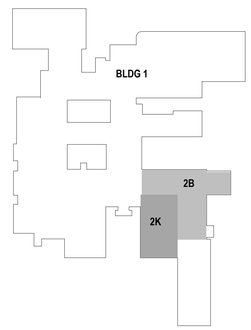
1. EXISTING PIPING / FIXTURE TO REMAIN IN ITS ENTIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
2. EXISTING SAN, VENT AND STORM RISERS TO REMAIN IN ITS ENITIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
3. EXISTING 2" SAN PIPING SERVING EWC TO REMAIN IN ITS ENTIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
4. DISCONNECT AND REMOVE ALL EXISTING SAN PIPING SHOWN IN DASHED ALONG WITH ALL ASSOCIATED HANGERS IN ITS ENTIRETY.
5. DISCONNECT AND REMOVE EXISTING 4" SAN PIPING SERVING TOILET FIXTURES ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
6. DISCONNECT AND REMOVE EXISTING 2" SAN PIPING UP SERVING HANDSINK ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
7. DISCONNECT AND REMOVE EXISTING 4" SAN PIPING UP SERVING MOP SINK ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
8. DISCONNECT AND REMOVE EXISTING 2" SAN PIPING UP SERVING ICE-MAKER AND CAP PIPING.

N

1 DEMOLITION SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA B

3/16" = 1'-0"

0 4' 8' 12'



KEYPLAN

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RAED HAMID GHEITHAN — 05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DEMOLITION SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA B	Phase: ISSUED FOR BID
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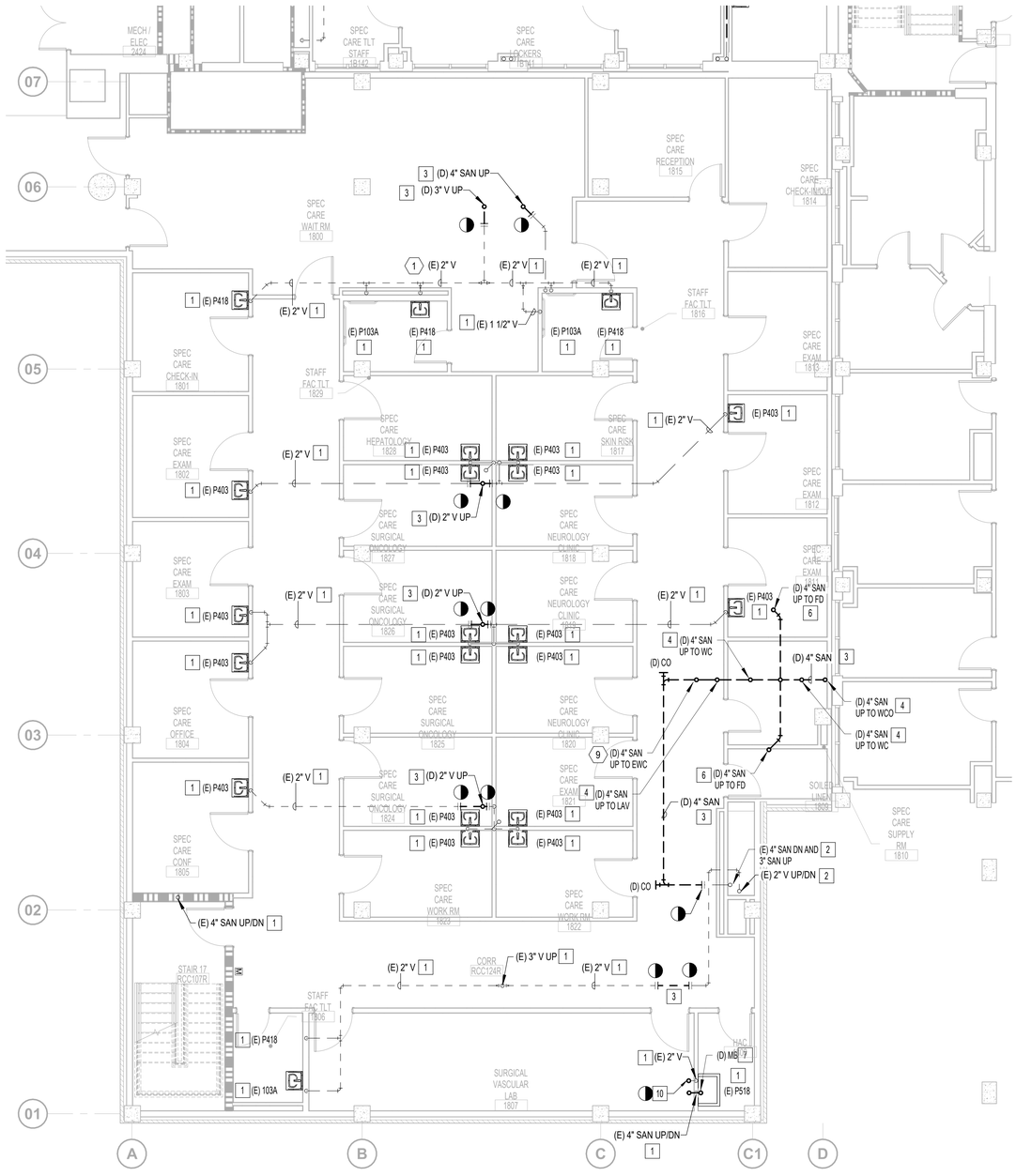

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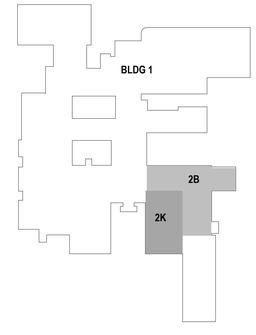
[X] PLUMBING DEMOLITION KEYNOTES

1. EXISTING PIPING / FIXTURE TO REMAIN IN ITS ENTIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
2. EXISTING SAN. VENT AND STORM RISERS TO REMAIN IN ITS ENITIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
3. DISCONNECT AND REMOVE ALL EXISTING SAN PIPING SHOWN IN DASHED ALONG WITH ALL ASSOCIATED HANGERS IN ITS ENTIRETY.
4. DISCONNECT AND REMOVE EXISTING 4" SAN PIPING SERVING WATER CLOSET ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
5. DISCONNECT AND REMOVE EXISTING 2" SAN PIPING UP SERVING LAVATORY ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
6. DISCONNECT AND REMOVE EXISTING 4" SAN PIPING UP SERVING FLOOR DRAIN ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
7. DISCONNECT AND REMOVE EXISTING 4" SAN PIPING UP SERVING MOP SINK ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
8. DISCONNECT AND REMOVE EXISTING 4" SAN PIPING UP SERVING WCO ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
9. DISCONNECT AND REMOVE EXISTING 4" SAN PIPING UP SERVING EWC ABOVE. CUT AND REMOVE PIPING SHOWN DASHED AND ALL ASSOCIATED PIPE HANGERS IN ITS ENTIRETY.
10. CUT AND DISCONNECT 2" V PIPING AT THIS LOCATION AND READY PIPING FOR RECONNECTION TO NEW.

1 DEMOLITION SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA K

3/16" = 1'-0"

0 4' 8' 12'



KEYPLAN

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

Bancroft

1471 E Business Center Dr,
Mount Prospect, IL 60056
T: 847-952-9362
www.bancroft-ae.com

BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036
Bancroft Project No. 23-135

STAMP

REGISTERED PROFESSIONAL ENGINEER
RAED HAMID OBEIDAT
STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DEMOLITION SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA K

Phase: ISSUED FOR BID

Approved: Project Director

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

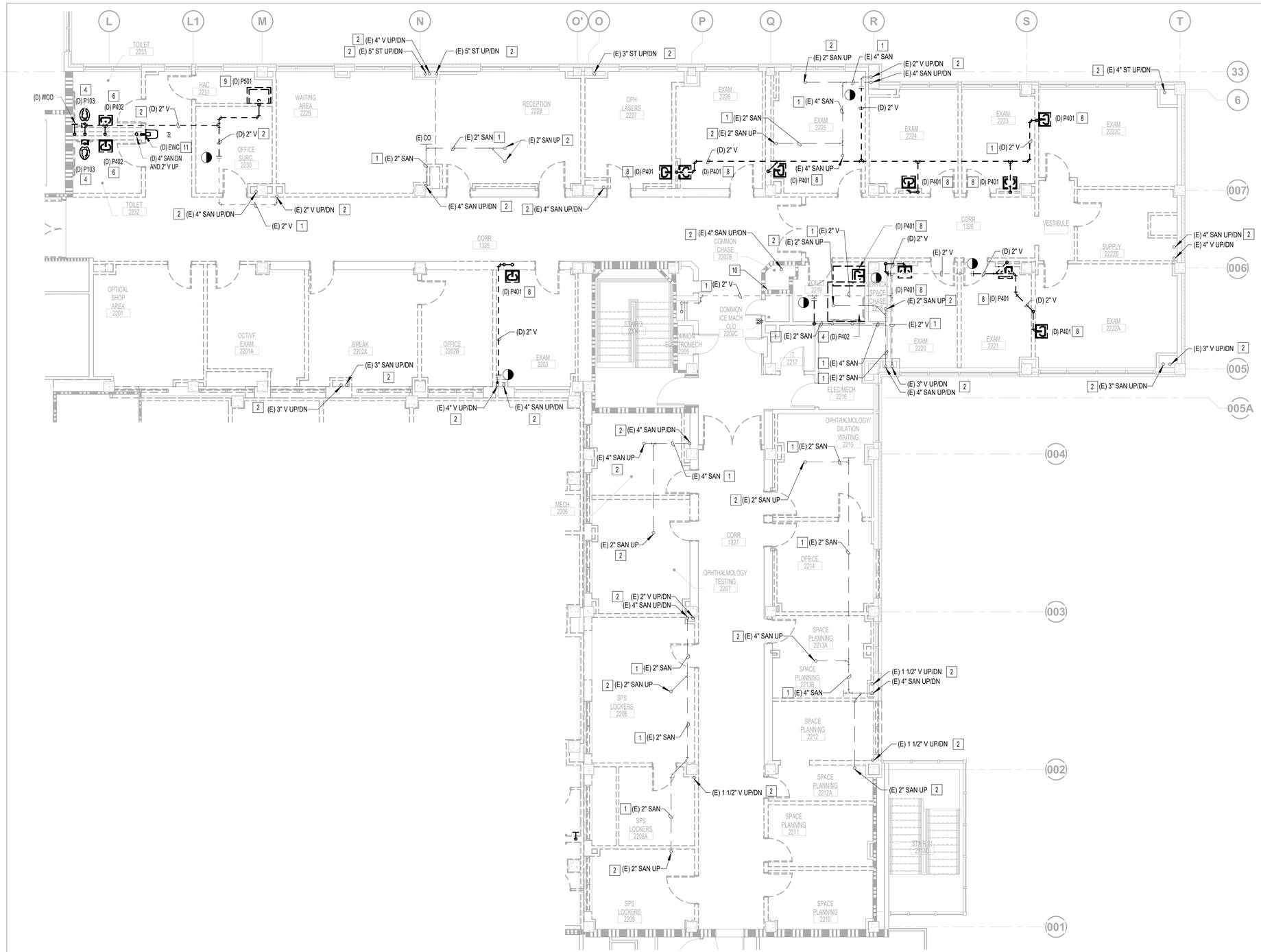
Issue Date: 05/15/2026

Checked: RH

Drawn: HS

Drawing Number: PSD101K

VA FORM 08-6231



N

1 DEMOLITION SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA B

3/16" = 1'-0"

0 4' 8' 12'

PLUMBING GENERAL NOTES

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B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET OR EXCEED FORMER CONDITIONS.

D. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. ALL EXISTING MOUNTED ITEMS SHALL BE REMOVED, STORED, AND REINSTALLED IN SAME LOCATION. COORDINATE WITH COR AND OTHER TRADES.

E. CONTRACTOR SHALL ENSURE CONTINUOUS SERVICE TO ALL MAIN SAN AND VENT STACKS TO FLOORS ABOVE AND BELOW DURING CONSTRUCTION.

F. ABANDONED AND/OR DEAD LEG DOMESTIC WATER PIPING WILL NOT BE ALLOWED AND SHALL BE REMOVED EVEN IF NOT SHOWN ON DRAWINGS.

G. ALL DOMESTIC PIPING BEING DEMOLISHED TO MAIN SHALL BE CAPPED AT 1.5X THE DIAMETER OF BRANCH PIPING. NO DEAD END OR STUBS ARE ALLOWED IN DOMESTIC WATER PIPING. ALL DEAD END PIPING MUST BE REMOVED AND CAPPED.

H. REMOVE ALL ASSOCIATED VALVING, CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING REMOVAL.

I. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

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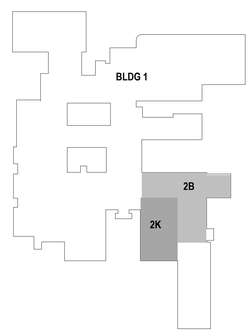
3. DISCONNECT AND REMOVE ALL EXISTING SAN AND VENT PIPING SHOWN IN DASHED ALONG WITH ALL ASSOCIATED HANGERS IN ITS ENTIRETY.
4. DISCONNECT AND REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED PIPING AND HANGERS IN ITS ENTIRETY.
5. DISCONNECT AND REMOVE EXISTING WATER CLOSET AND ASSOCIATED HANGER. CUT EXISTING PIPING BACK BEHIND WALL AND READY PIPING TO RECONNECTED TO NEW.
6. DISCONNECT AND REMOVE EXISTING LAVATORY AND ALL ASSOCIATED PIPING, FAUCET AND HANGERS IN ITS ENTIRETY.
7. DISCONNECT AND REMOVE EXISTING LAVATORY. CUT EXISTING PIPING BACK BEHIND WALL AND READY PIPING TO RECONNECTED TO NEW.
8. DISCONNECT AND REMOVE EXISTING HANDSINK AND ALL ASSOCIATED PIPING, FAUCET AND HANGERS IN ITS ENTIRETY.
9. DISCONNECT AND REMOVE EXISTING MOP SINK AND ALL ASSOCIATED PIPING AND FAUCET IN ITS ENTIRETY.
10. DISCONNECT, REMOVE, CUT BACK AND CAP PIPING SERVING EXISTING OPEN SITE DRAIN.
11. DISCONNECT AND REMOVE EXISTING ELECTRIC WATER COOLER AND ALL ASSOCIATED PIPING AND HANGERS IN ITS ENTIRETY.



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Bancroft Project No. 23-135

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LICENSED PROFESSIONAL ENGINEER
RAED HAMD
062.065548
05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DEMOLITION SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA B

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: RH

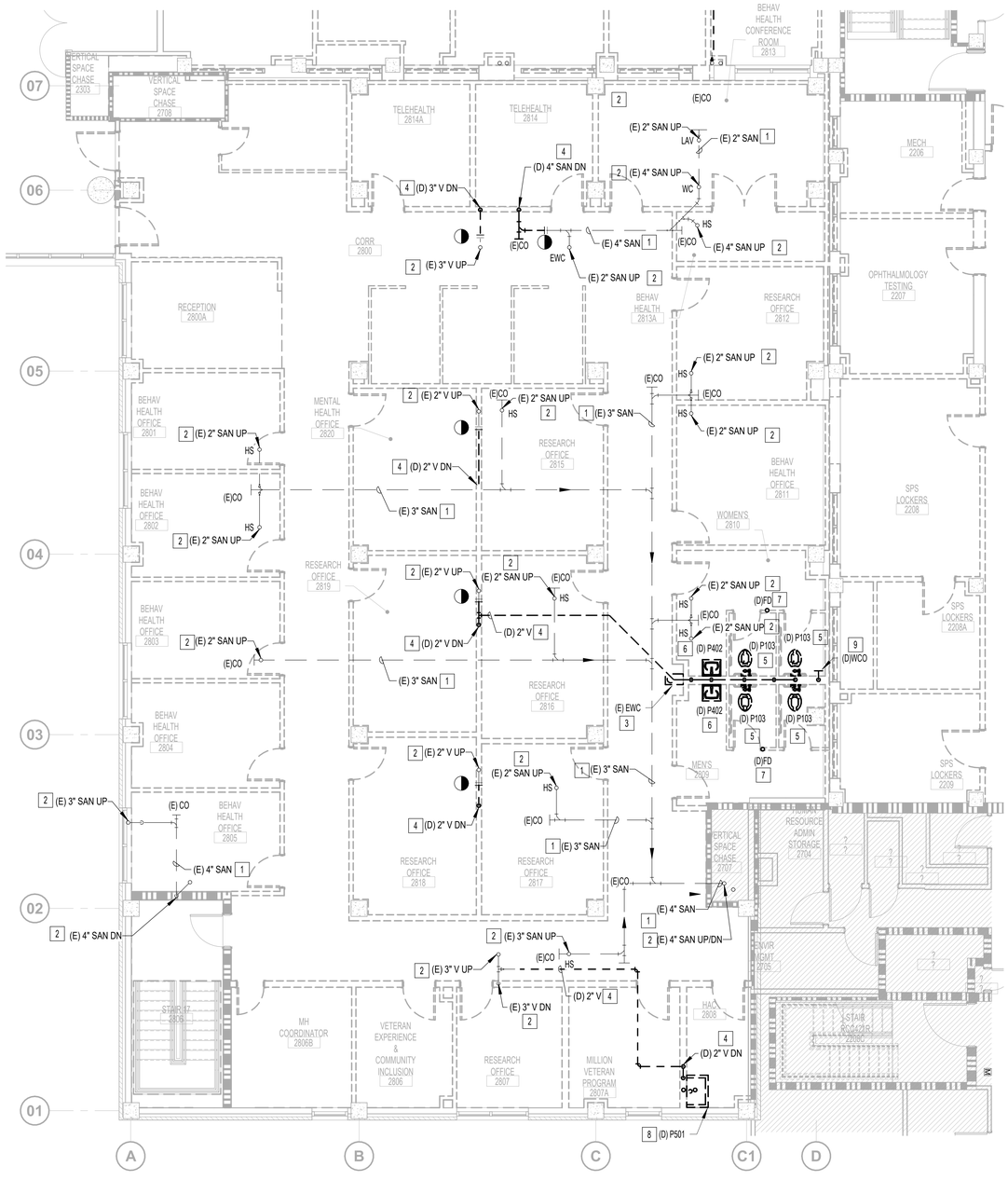
Drawn: HS

Project Number: 521-24-102

Building Number: #1

Drawing Number: PSD102B

VA FORM 08-6231



N

1 DEMOLITION SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA K

3/16" = 1'-0"

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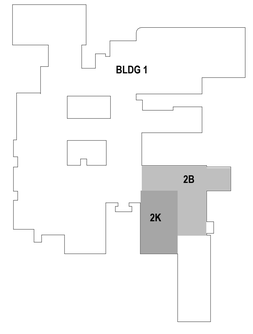
7. DISCONNECT AND REMOVE EXISTING FLOOR DRAIN IN ITS ENTIRETY.
8. DISCONNECT AND REMOVE EXISTING MOP SINK AND ALL ASSOCIATED PIPING AND FAUCET IN ITS ENTIRETY.
9. DISCONNECT AND REMOVE EXISTING WCO IN ITS ENTIRETY.



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www.bancroft-ae.com
Bancroft Project No. 23-135

STAMP

RAED HAMID
DEE.0005448
05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DEMOLITION SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA K

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

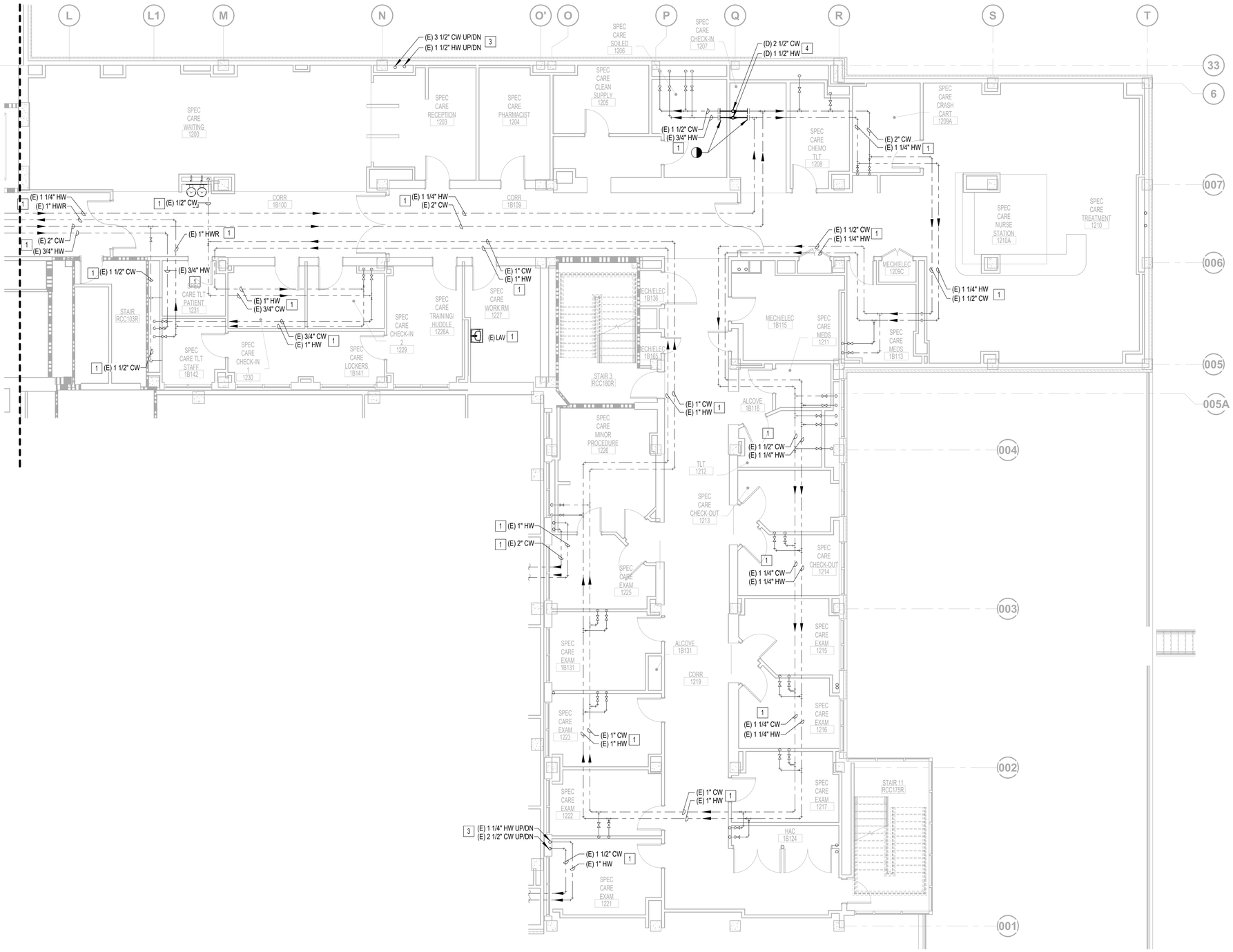
Issue Date: 05/15/2026

Checked: RH

Drawn: HS

Drawing Number: PSD102K

VA FORM 08-6231



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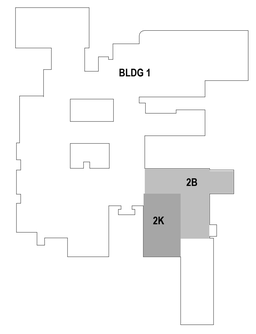
3. EXISTING COLD, HOT AND HOT WATER RETURN PIPE RISERS TO REMAIN IN ITS ENTIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
4. DISCONNECT AND REMOVE ALL EXISTING CW, HW AND HWR PIPING SHOWN IN DASHED ALONG WITH ALL ASSOCIATED HANGERS IN ITS ENTIRETY.

N

1 DEMOLITION DOMESTIC WATER PLAN - PARTIAL FIRST FLOOR - AREA B

3/16" = 1'-0"

0 4' 8' 12'



KEYPLAN

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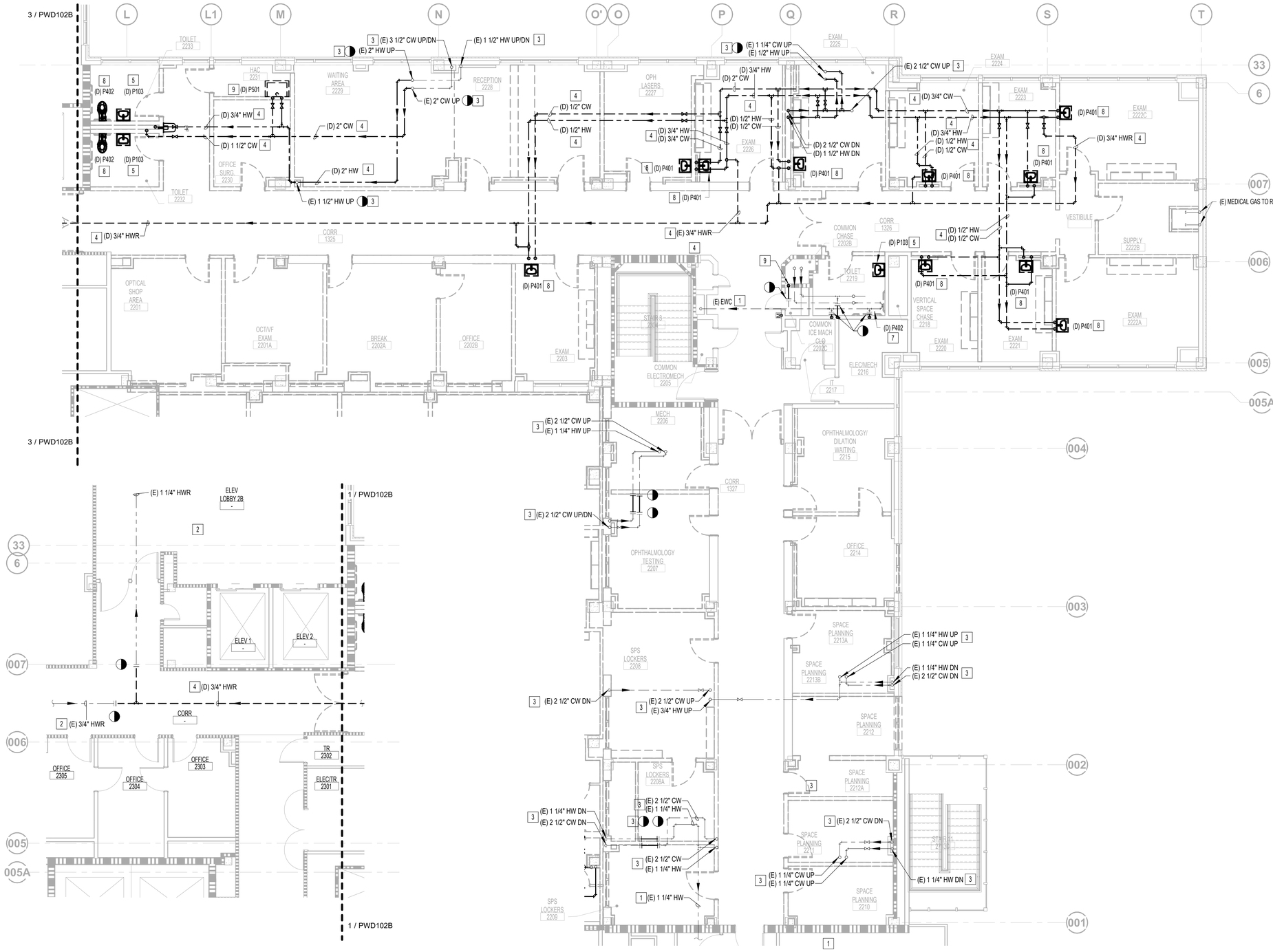
LICENSED PROFESSIONAL ENGINEER RAED HAMID 062.065548 STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	PLUMBING - DEMOLITION DOMESTIC WATER PLAN - PARTIAL FIRST FLOOR - AREA B
Approved: Project Director	
Phase	ISSUED FOR BID
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Location	BIRMINGHAM VAMC
Issue Date	05/15/2026
Checked	RH
Drawn	HS
Project Number	521-24-102
Building Number	#1
Drawing Number	PWD101B

VA FORM 08-6231



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3. EXISTING COLD, HOT AND HOT WATER RETURN PIPE RISERS TO REMAIN IN ITS ENTIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
4. DISCONNECT AND REMOVE ALL EXISTING CW, HW AND HWR PIPING SHOWN IN DASHED ALONG WITH ALL ASSOCIATED HANGERS IN ITS ENTIRETY.
5. DISCONNECT AND REMOVE EXISTING WATER CLOSET AND CUT BACK PIPING BEHIND WALL AND READY PIPING TO BE RECONNECTED TO NEW.
6. DISCONNECT AND REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED PIPING AND HANGERS. CUT BACK PIPING TO MAIN.
7. DISCONNECT AND REMOVE EXISTING LAVATORY AND CUT BACK PIPING BEHIND WALL AND READY PIPING TO BE RECONNECTED BACK TO NEW. EXISTING LAVATORY HANGER TO REMAIN AS IS.
8. DISCONNECT AND REMOVE EXISTING LAVATORY AND ALL ASSOCIATED PIPING AND HANGERS. CUT BACK PIPING TO MAIN.
9. DISCONNECT AND REMOVE EXISTING PIPING AND CONNECTION TO ICE-MAKER IN IT'S ENTIRETY AND READY PIPING TO BE CAPPED.

3 DEMOLITION DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA B - ELEVATOR LOBBY

3/16" = 1'-0"

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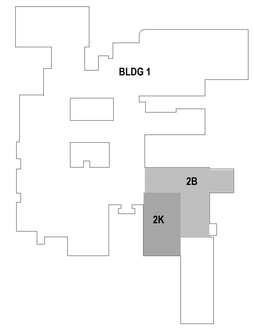

KEYPLAN

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ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
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35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036
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Mount Prospect, IL 60056
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Bancroft Project No. 23-135

STAMP

REGISTERED PROFESSIONAL ENGINEER
RAED HAMID
062.065548
STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DEMOLITION DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA B

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

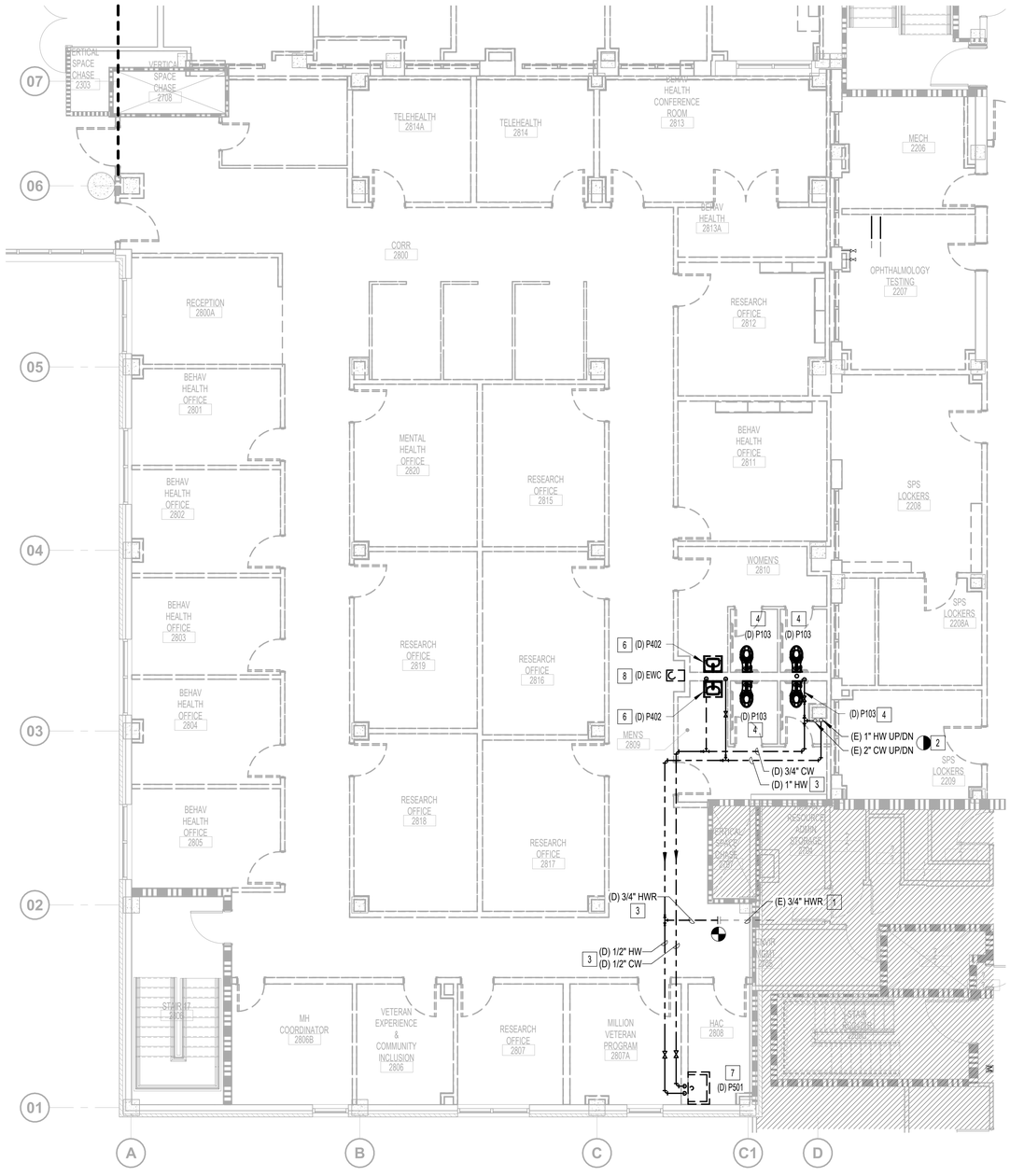
Issue Date: 05/15/2026

Checked: RH

Drawn: HS

Drawing Number: PWD102B

VA FORM 08-6231



N

1 DEMOLITION DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA K

3/16" = 1'-0"

0 4' 8' 12'

PLUMBING GENERAL NOTES

A. CONTRACTOR TO COORDINATE WITH VA COR FOR ALL PLUMBING SERVICE OUTAGES.

B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO FINISHES OR COMPONENTS NOT SCHEDULED FOR DEMOLITION. DAMAGED ITEMS SHALL BE REPLACED OR REPAIRED TO MEET OR EXCEED FORMER CONDITIONS.

D. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. ALL EXISTING MOUNTED ITEMS SHALL BE REMOVED, STORED, AND REINSTALLED IN SAME LOCATION. COORDINATE WITH COR AND OTHER TRADES.

E. CONTRACTOR SHALL ENSURE CONTINUOUS SERVICE TO ALL MAIN SAN AND VENT STACKS TO FLOORS ABOVE AND BELOW DURING CONSTRUCTION.

F. ABANDONED AND/OR DEAD LEG DOMESTIC WATER PIPING WILL NOT BE ALLOWED AND SHALL BE REMOVED EVEN IF NOT SHOWN ON DRAWINGS.

G. ALL DOMESTIC PIPING BEING DEMOLISHED TO MAIN SHALL BE CAPPED AT 1.5X THE DIAMETER OF BRANCH PIPING. NO DEAD END OR STUBS ARE ALLOWED IN DOMESTIC WATER PIPING. ALL DEAD END PIPING MUST BE REMOVED AND CAPPED.

H. REMOVE ALL ASSOCIATED VALVING, CLAMPS, HANGERS, SUPPORTS, ETC., ASSOCIATED WITH PIPING REMOVAL.

I. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

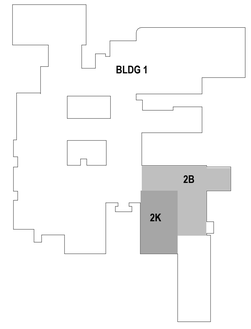
J. ALL ASSOCIATED PIPING SHALL INCLUDE BUT NOT BE LIMITED TO CW, HW, HWC, SANITARY, AND VENT PIPING.

K. PATCH AND FILL CONCRETE SLAB WHERE DOMESTIC WATER, SANITARY AND VENT PIPING HAVE BEEN REMOVED OR PLUGGED.

L. PIPING AND EQUIPMENT SHOWN ON THIS DRAWING WAS BASED ON AS-BUILT DOCUMENTATION PROVIDED BY THE VA AND A CURSORY ON SITE REVIEW OF EXISTING CONDITIONS. IF IT IS DISCOVERED THAT ANY PIPING OR EQUIPMENT, INDICATED TO BE DEMOLISHED, SERVES OTHER AREAS BEYOND THIS PROJECT SCOPE, THE CONTRACTOR MUST IMMEDIATELY STOP DEMOLITION OF SAID PIPING OR EQUIPMENT. NOTIFY THE COR AND ENGINEER AND WAIT FOR FURTHER INSTRUCTIONS.

X PLUMBING DEMOLITION KEYNOTES

1. EXISTING PIPING / FIXTURE TO REMAIN IN ITS ENTIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
2. EXISTING COLD AND HOT PIPE RISERS TO REMAIN IN ITS ENTIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
3. DISCONNECT AND REMOVE ALL EXISTING CW, HW AND HWR PIPING SHOWN IN DASHED ALONG WITH ALL ASSOCIATED HANGERS IN ITS ENTIRETY.
4. DISCONNECT AND REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED PIPING AND HANGERS. CUT BACK PIPING TO MAIN LEAVING NO DEAD LEGS.
6. DISCONNECT AND REMOVE EXISTING LAVATORY AND ALL ASSOCIATED PIPING AND HANGERS. CUT BACK PIPING TO MAIN LEAVING NO DEAD LEGS.
7. DISCONNECT AND REMOVE EXISTING MOP BASIN AND ALL ASSOCIATED PIPING AND HANGERS. CUT BACK PIPING TO MAIN LEAVING NO DEAD LEGS.
8. DISCONNECT AND REMOVE EXISTING WATER COOLER AND ALL ASSOCIATED PIPING AND HANGERS. BUT BACK PIPING TO MAIN LEAVING NO DEAD LEGS.



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RAED HAMID
ONE.000548
STATE OF ILLINOIS
REGISTERED PROFESSIONAL ENGINEER
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DEMOLITION DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA K

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

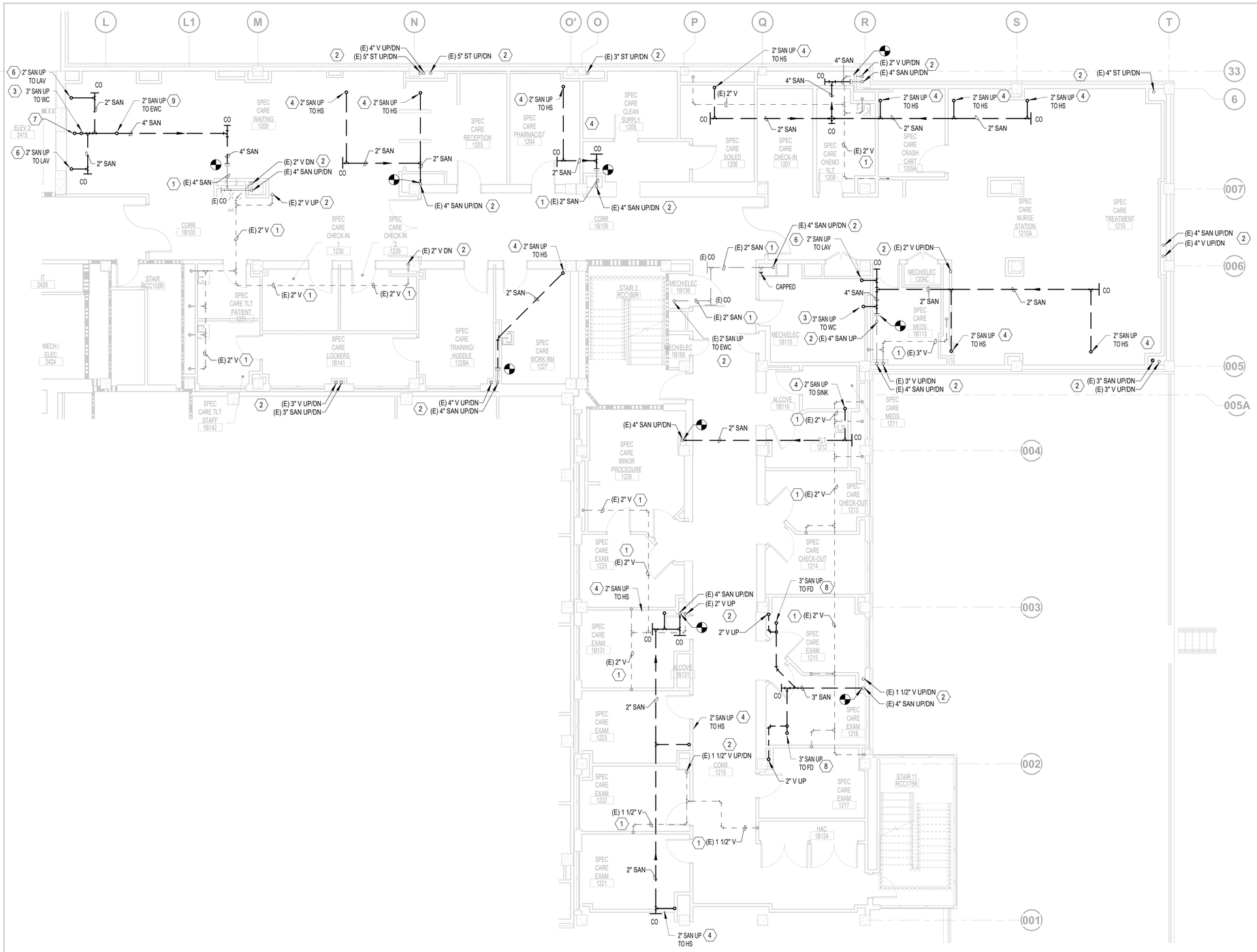
Issue Date: 05/15/2026

Checked: RH

Drawn: HS

Drawing Number: PWD102K

VA FORM 08-6231



NEW WORK SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA B

3/16" = 1'-0"

0 4' 8' 12'

FIRE BARRIER LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE - RATED BARRIER & SMOKE SEPARATION
- 1 HOUR FIRE - RATED BARRIER & SMOKE SEPARATION

PLUMBING GENERAL NOTES

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C. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

D. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH CONNECTION TO FIXTURE.

E. ALL ASSOCIATED PIPING SHALL INCLUDE BUT NOT BE LIMITED TO CW, HW, HWC, SANITARY, AND VENT PIPING.

F. INSTALL BALANCING, CHECK AND ISOLATION VALVES AT EVERY HWC BRANCH PIPING, REFER TO DETAIL ON SHEET 8/P501 .

G. ACCESS SHALL BE PROVIDED SUCH THAT PLUMBING COMPONENTS SHALL BE READILY SERVICEABLE, FOR ALL COMPONENTS THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRRATION. SUCH COMPONENTS INCLUDES, BUT IS NOT LIMITED TO MANUAL VALVES, CHECK VALVES, BALANCING VALVES, ETC.

H. ALL DOMESTIC WATER PIPING SHALL BE 3/4" Ø MINIMUM AND ALL VENT PIPING SHALL BE 2" Ø MINIMUM UNLESS OTHERWISE NOTED.

I. ALL PENETRATIONS SHALL BE SEALED WITH FIRE PROOFING.

J. ROUTED DOMESTIC WATER PIPING DIRECTLY ABOVE THE SINKS/HAND SINKS THEY SERVE AS TO MINIMIZE HOT WATER BRANCH PIPING (FOR CONVENIENCE AND CLARITY THE PIPE ROUTING IS SHOWN AWAY FROM THE SINKS/HAND SINKS.)

PLUMBING KEYNOTES

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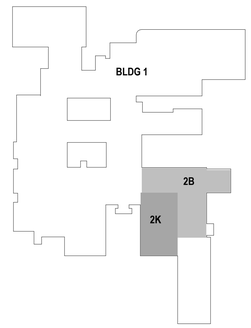
2. EXISTING SANITARY / VENT PIPE RISER TO REMAIN IN ITS ENTIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
3. EXTEND NEW 3" SAN UP AND CONNECT TO WATER CLOSET. EXTEND VENT UP FROM WATER CLOSET TO VENT MAIN.
4. EXTEND NEW 2" SAN PIPING UP AND CONNECT TO SINK / HAND SINK. EXTEND VENT UP FROM SINK / HAND SINK TO VENT MAIN.
5. EXTEND NEW 3" SAN PIPING UP AND CONNECT TO MOP BASIN. EXTEND VENT UP FROM MOP BASIN TO VENT MAIN.
6. EXTEND NEW 2" SAN PIPING UP AND CONNECT TO LAVATORY. EXTEND VENT UP FROM LAVATORY TO VENT MAIN.
7. EXTEND NEW " SAN AND CONNECT TO WCO.
8. EXTEND NEW 3" SAN AND CONNECT TO FLOOR DRAIN.
9. EXTEND NEW 2" SAN PIPING UP AND CONNECT TO ELECTRIC WATER COOLER. EXTEND VENT UP FROM ELECTRIC WATER COOLER TO VENT MAIN.



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VA CONTRACT NO. 36C24724C0036
Bancroft Project No. 23-135

STAMP

RAED HAMID
088.008548
STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - NEW WORK SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA B

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

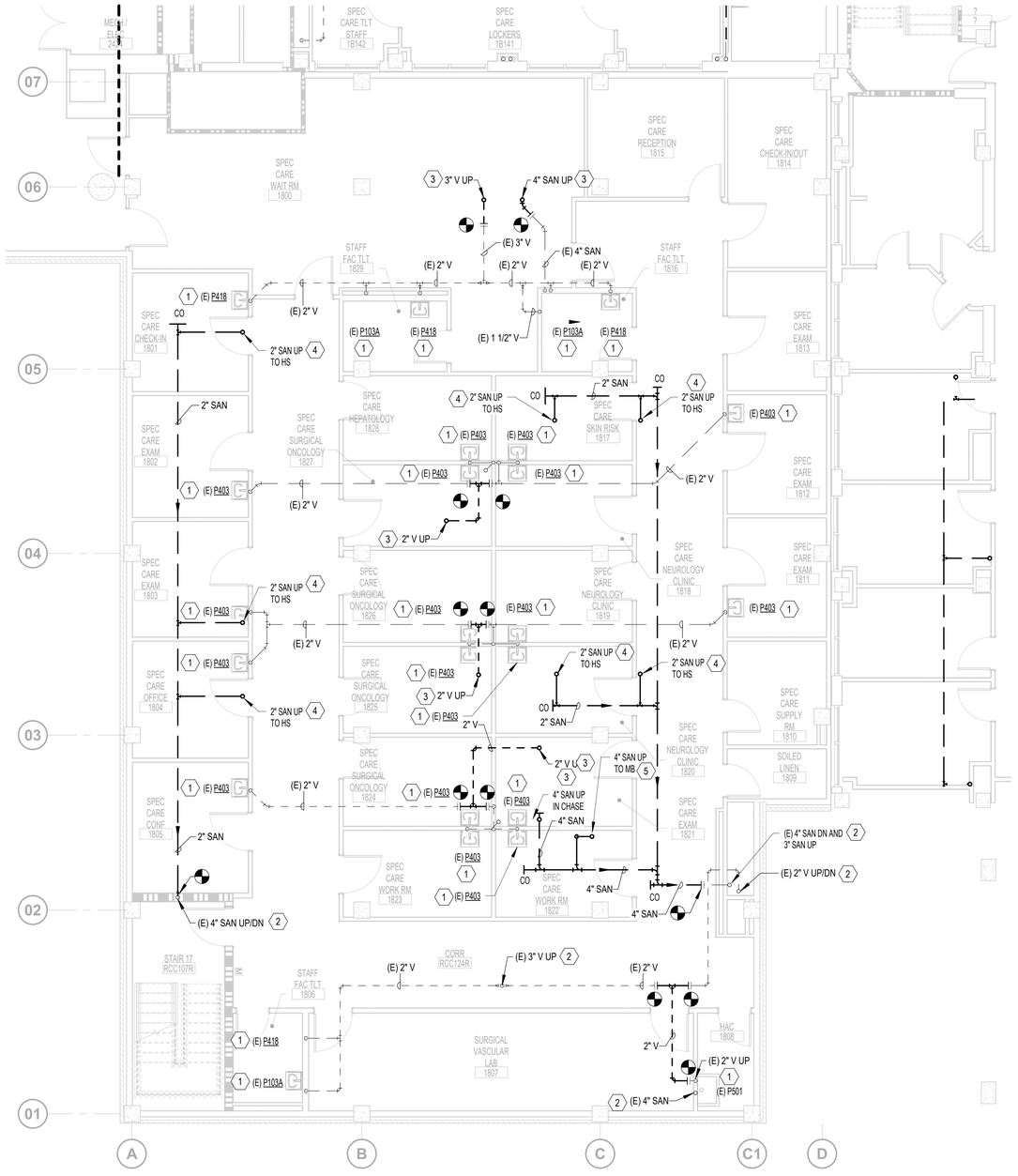
Issue Date: 05/15/2026 | Checked: RH | Drawn: HS

Project Number: 521-24-102

Building Number: #1

Drawing Number: PS101B

VA FORM 08-6231



N 1 NEW WORK SANITARY AND VENT PLAN -PARTIAL FIRST FLOOR - AREA K

3/16" = 1'-0"

0 4' 8' 12'

FIRE BARRIER LEGEND

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I. ALL PENETRATIONS SHALL BE SEALED WITH FIRE PROOFING.

J. ROUTED DOMESTIC WATER PIPING DIRECTLY ABOVE THE SINKS/HAND SINKS THEY SERVE AS TO MINIMIZE HOT WATER BRANCH PIPING (FOR CONVENIENCE AND CLARITY THE PIPE ROUTING IS SHOWN AWAY FROM THE SINKS/HAND SINKS.)

(X) PLUMBING KEYNOTES

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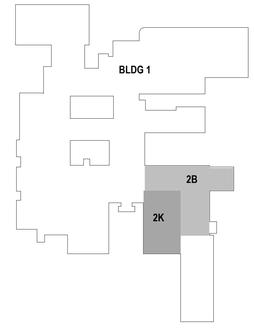
3. EXTEND NEW SAN / VENT PIPING UP TO FLOOR ABOVE.
4. EXTEND NEW 2" SAN PIPING UP AND CONNECT TO SINK / HAND SINK. EXTEND VENT UP FROM SINK / HAND SINK TO VENT MAIN.
5. EXTEND NEW 3" SAN PIPING UP AND CONNECT TO MOP BASIN. EXTEND VENT UP FROM MOP BASIN TO VENT MAIN.



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LICENSED PROFESSIONAL ENGINEER
RAED HAMID
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STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - NEW WORK SANITARY AND VENT PLAN - PARTIAL FIRST FLOOR - AREA K

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

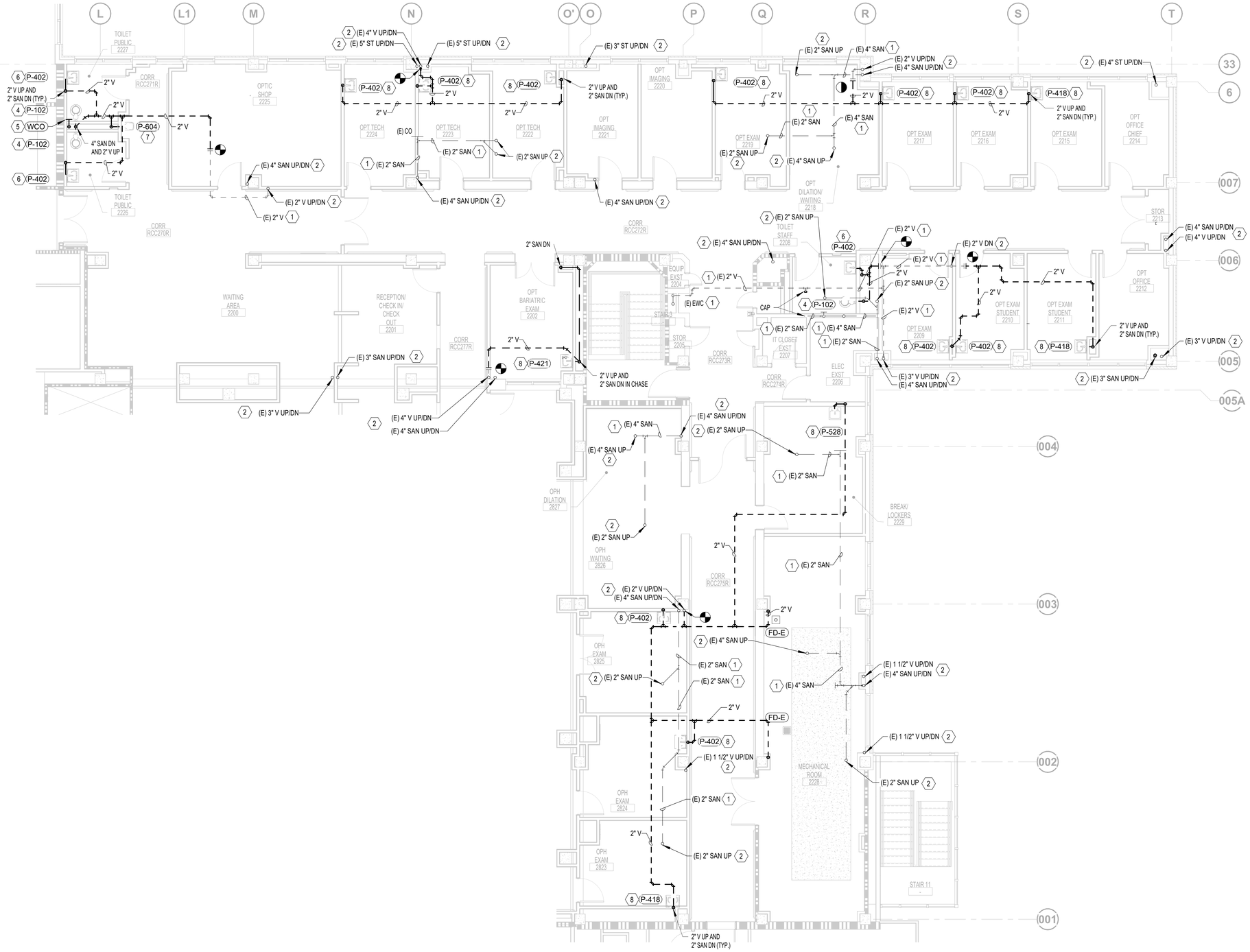
Issue Date: 05/15/2026

Checked: RH

Drawn: HS

Drawing Number: PS101K

VA FORM 08-6231



FIRE BARRIER LEGEND

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- 1 HOUR FIRE - RATED BARRIER & SMOKE SEPARATION

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3. EXTEND 4" SAN UP FROM FLOOR BELOW.
4. EXTEND 4" SAN PIPING IN CHASE / WALL AND CONNECT TO WATER CLOSET. EXTEND 2" VENT UP FROM WATER CLOSET AND CONNECT TO VENT MAIN.
5. EXTEND 4" SAN PIPING IN CHASE / WALL AND CONNECT TO WCO.
6. EXTEND 2" SAN PIPING IN CHASE / WALL AND CONNECT TO LAVATORY. EXTEND 2" VENT UP FROM LAVATORY AND CONNECT TO VENT MAIN.
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8. EXTEND 2" SAN PIPING UP IN CHASE / WALL CONNECT TO SINK / HAND SINK. EXTEND 2" VENT UP FROM SINK / HAND AND CONNECT TO VENT MAIN.

1 NEW WORK SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA B

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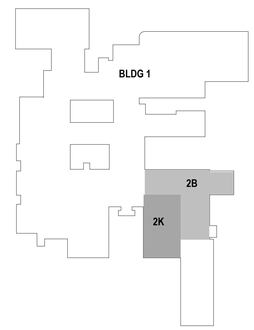

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REGISTERED PROFESSIONAL ENGINEER FAIED HAMID 062.065548 STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	PLUMBING - NEW WORK SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA B
Approved: Project Director	
Phase	ISSUED FOR BID
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Project Number	521-24-102
Building Number	#1
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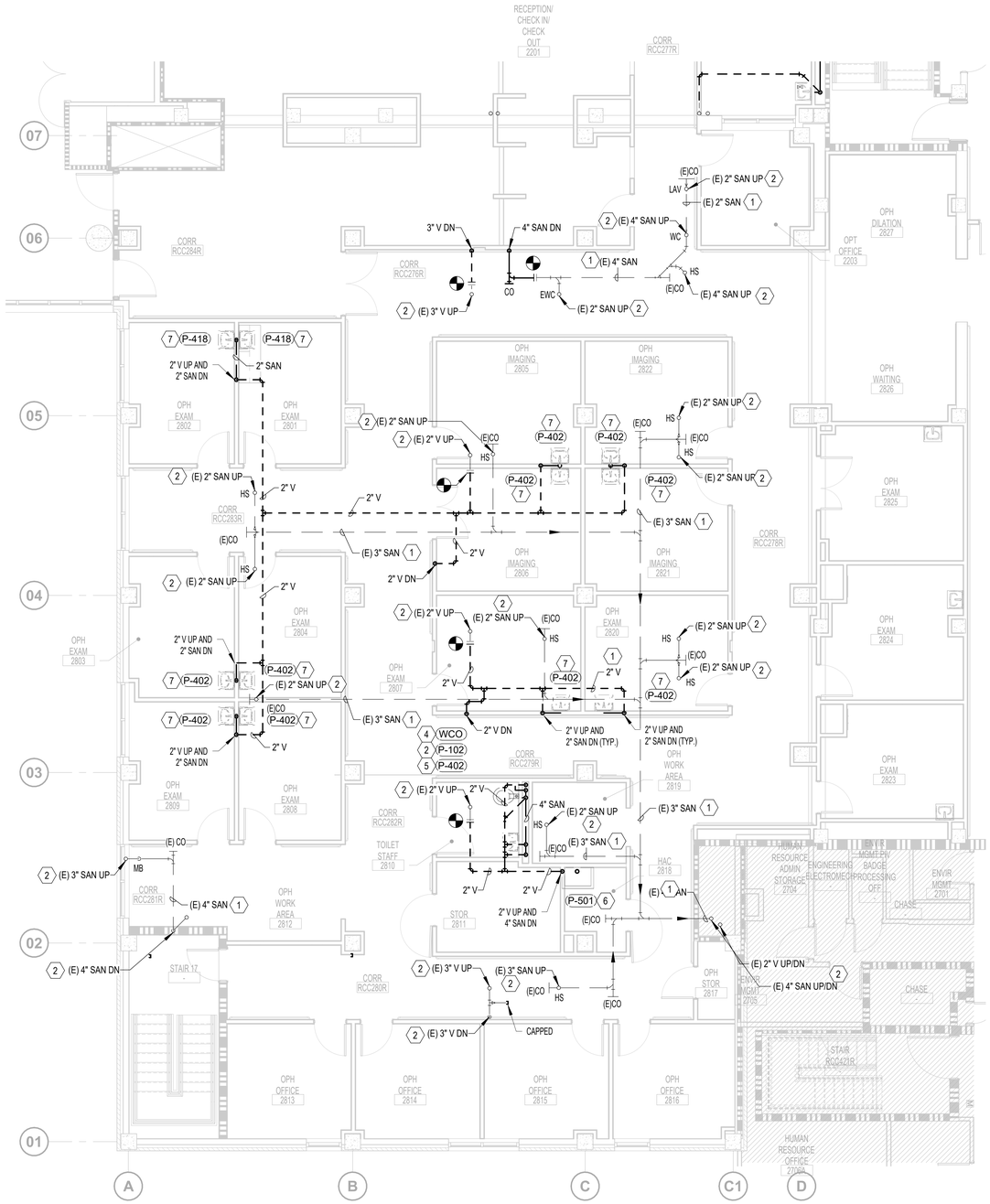
Drawing Number	PS102B
Issue Date	05/15/2026
Checked	RH
Drawn	HS

VA FORM 08-6231



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PLUMBING KEYNOTES

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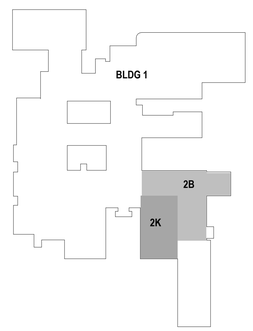
3. EXTEND 4" SAN PIPING IN CHASE / WALL AND CONNECT TO WATER CLOSET. EXTEND 2" VENT UP FROM WATER CLOSET AND CONNECT TO VENT MAIN.
4. EXTEND 4" SAN PIPING IN CHASE / WALL AND CONNECT TO WCO.
5. EXTEND 2" SAN PIPING IN CHASE / WALL AND CONNECT TO LAVATORY. EXTEND 2" VENT UP FROM LAVATORY AND CONNECT TO VENT MAIN.
6. EXTEND 3" SAN PIPING IN CHASE / WALL AND CONNECT TO MOP SINK. EXTEND 2" VENT UP FROM MOP SINK AND CONNECT TO VENT MAIN.
7. EXTEND 2" SAN PIPING UP IN CHASE / WALL CONNECT TO SINK / HAND SINK. EXTEND 2" VENT UP FROM SINK / HAND AND CONNECT TO VENT MAIN.

1 NEW WORK SANITARY AND VENT PLAN- PARTIAL SECOND FLOOR - AREA K

3/16" = 1'-0"

0 4' 8' 12'



KEYPLAN

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
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Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036
1471 E Business Center Dr, Mount Prospect, IL 60056
T: 847-952-9362
www.bancroft-ae.com
Bancroft Project No. 23-135

STAMP

LICENSED PROFESSIONAL ENGINEER RAED HAMID 062.065548 REGISTERED
05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - NEW WORK SANITARY AND VENT PLAN - PARTIAL SECOND FLOOR - AREA K

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

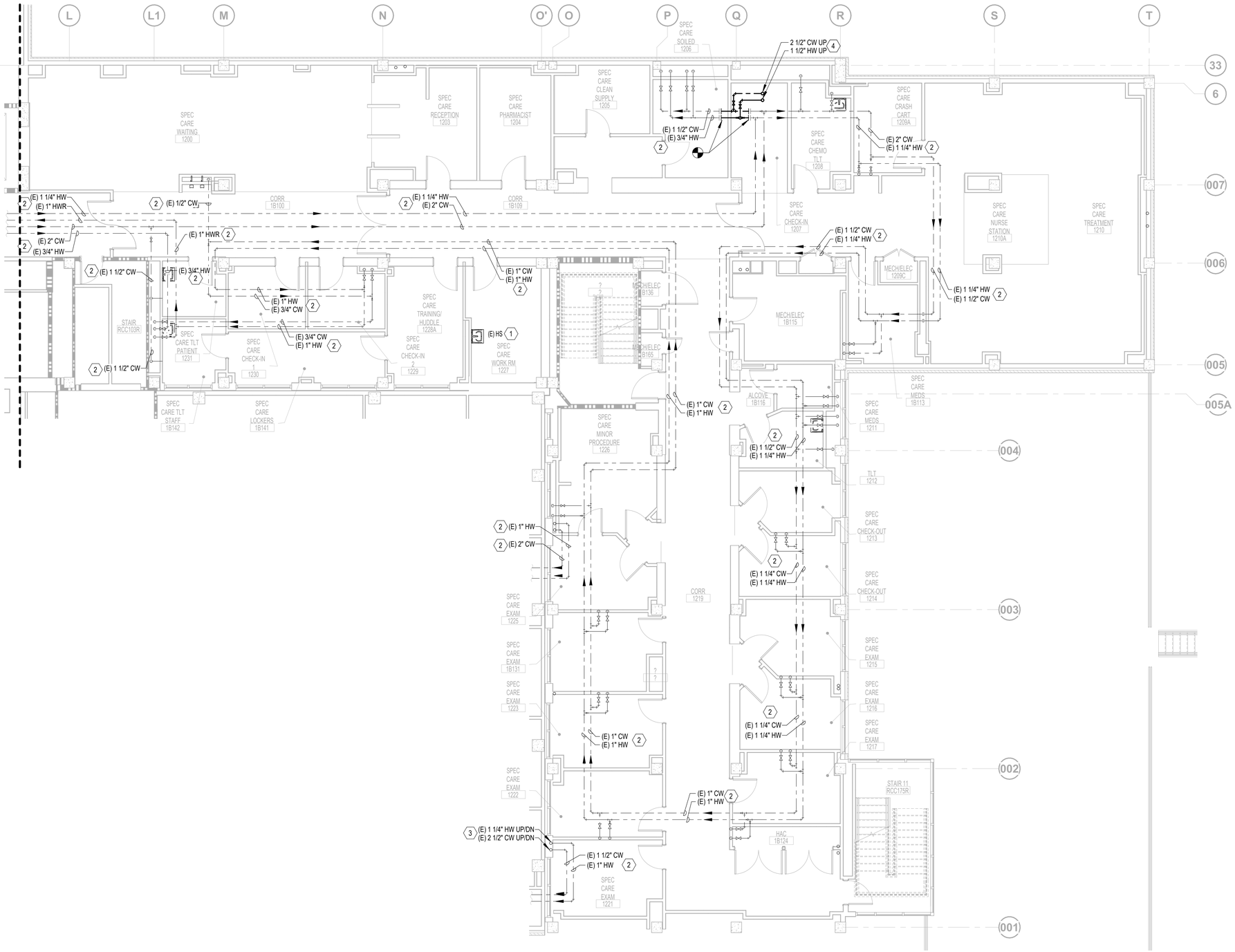
Project Number: 521-24-102

Building Number: #1

Drawing Number: PS102K

Issue Date: 05/15/2026 | Checked: RH | Drawn: HS

VA FORM 08-6231



NEW WORK DOMESTIC WATER PLAN - PARTIAL FIRST FLOOR - AREA B

3/16" = 1'-0"

0 4' 8' 12'

FIRE BARRIER LEGEND

- AREA NOT IN CONTRACT
- 2 HOUR FIRE - RATED BARRIER & SMOKE SEPARATION
- 1 HOUR FIRE - RATED BARRIER & SMOKE SEPARATION

PLUMBING GENERAL NOTES

A. CONTRACTOR TO COORDINATE WITH VA COR FOR ALL PLUMBING SERVICE OUTAGES.

B. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

C. CONTRACTOR IS RESPONSIBLE FOR ALL MODIFICATIONS TO THE EXISTING PIPING NECESSARY TO PERMIT THE INSTALLATION OF NEW WORK.

D. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH CONNECTION TO FIXTURE.

E. ALL ASSOCIATED PIPING SHALL INCLUDE BUT NOT BE LIMITED TO CW, HW, HWC, SANITARY, AND VENT PIPING.

F. INSTALL BALANCING, CHECK AND ISOLATION VALVES AT EVERY HWC BRANCH PIPING, REFER TO DETAIL ON SHEET &/P501 .

G. ACCESS SHALL BE PROVIDED SUCH THAT PLUMBING COMPONENTS SHALL BE READILY SERVICEABLE, FOR ALL COMPONENTS THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRRATION. SUCH COMPONENTS INCLUDES, BUT IS NOT LIMITED TO MANUAL VALVES, CHECK VALVES, BALANCING VALVES, ETC.

H. ALL DOMESTIC WATER PIPING SHALL BE 3/4" Ø MINIMUM AND ALL VENT PIPING SHALL BE 2" Ø MINIMUM UNLESS OTHERWISE NOTED.

I. ALL PENETRATIONS SHALL BE SEALED WITH FIRE PROOFING.

J. ROUTED DOMESTIC WATER PIPING DIRECTLY ABOVE THE SINKS/HAND SINKS THEY SERVE AS TO MINIMIZE HOT WATER BRANCH PIPING (FOR CONVENIENCE AND CLARITY THE PIPE ROUTING IS SHOWN AWAY FROM THE SINKS/HAND SINKS.)

PLUMBING KEYNOTES

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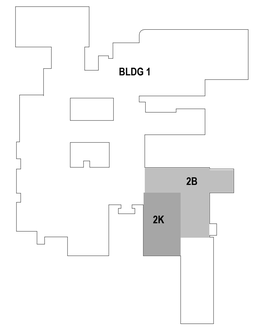
2. EXISTING COLD, HOT AND HOT WATER RETURN MAINS TO REMAIN IN ITS ENITIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
3. EXISTING COLD, HOT AND HOT WATER RETURN PIPE RISERS TO REMAIN IN ITS ENITIRETY AND CONTRACTOR TO PROTECT DURING CONSTRUCTION.
4. EXTEND CW AND HW UP TO FLOOR ABOVE. INSTALL ISOLATION VALVES AND DRAINS AT THIS LOCATION. DRAINS SHALL BE STANDARD SIZE HOSE BIB CONNECTIONS (NORMALLY CLOSED) TO ALLOW PIPING ABOVE TO BE DRAINED.



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REGISTERED PROFESSIONAL ENGINEER
RAED HAMID
ONE.065548
STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - NEW WORK DOMESTIC WATER PLAN - PARTIAL FIRST FLOOR - AREA B

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: RH

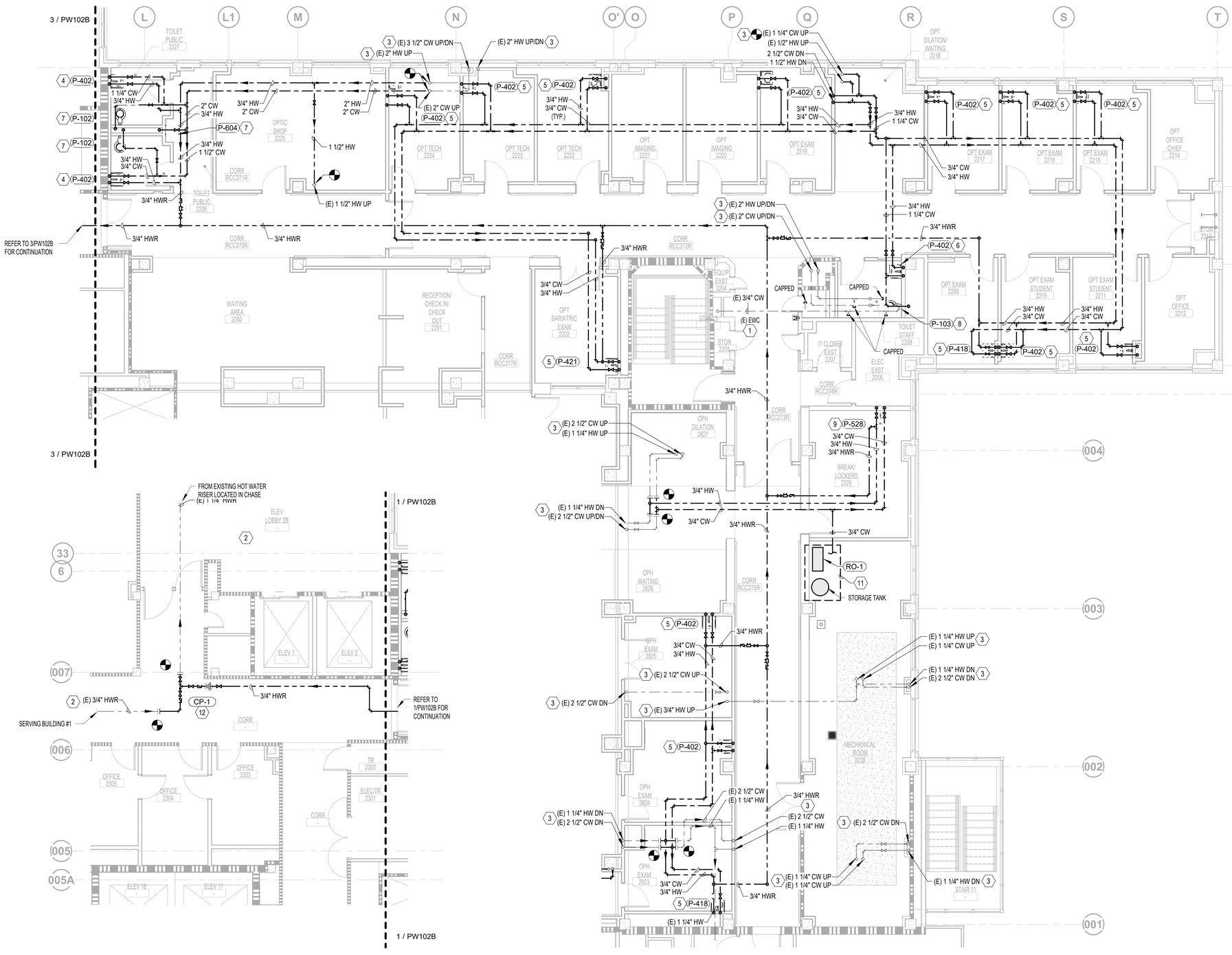
Drawn: HS

Project Number: 521-24-102

Building Number: #1

Drawing Number: PW101B

VA FORM 08-6231



FIRE BARRIER LEGEND

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- 1 HOUR FIRE - RATED BARRIER & SMOKE SEPARATION

PLUMBING GENERAL NOTES

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H. ALL DOMESTIC WATER PIPING SHALL BE 3/4" Ø MINIMUM AND ALL VENT PIPING SHALL BE 2" Ø MINIMUM UNLESS OTHERWISE NOTED.

I. ALL PENETRATIONS SHALL BE SEALED WITH FIRE PROOFING.

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4. EXTEND 3/4" CW AND HW AND ROUTE DOWN IN CHASE / WALL AND CONNECT TO LAVATORY. PROVIDE TMV IN-LINE BEFORE CONNECTION TO FAUCET.
5. EXTEND 3/4" CW AND HW AND ROUTE DOWN IN CHASE / WALL AND CONNECT TO HAND SINK. PROVIDE TMV IN-LINE BEFORE CONNECTION TO FAUCET.
6. REPLACE EXISTING LAVATORY WITH NEW AND EXTEND EXISTING 3/4" CW AND HW PIPING AND CONNECT TO NEW LAVATORY. PROVIDE TMV IN-LINE BEFORE CONNECTION TO FAUCET.
7. EXTEND 1 1/2" CW AND ROUTE DOWN IN CHASE / WALL AND CONNECT TO WATER CLOSET.
8. REPLACE EXISTING WATER CLOSET WITH NEW AND EXTEND EXISTING 1 1/2" CW AND CONNECT TO NEW WATER CLOSET.
9. EXTEND 3/4" CW AND HW AND ROUTE DOWN WALL AND CONNECT TO SINK.
10. EXTEND 1/2" CW AND ROUTE DOWN IN WALL AND CONNECT TO ELECTRIC WATER COOLER.
11. REFER TO DETAIL 3/P502 FOR REVERSE OSMOSIS WATER PIPING DIAGRAM FOR MORE INFORMATION.
12. INSTALL INLINE TYPE HOT WATER RECIRCULATION PUMP. REFER TO DETAIL 5/P502 FOR MORE INFORMATION.

3 NEW WORK DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA B - ELEVATOR LOBBY

3/16" = 1'-0"

1 NEW WORK DOMESTIC WATER PLAN PARTIAL SECOND FLOOR - AREA B

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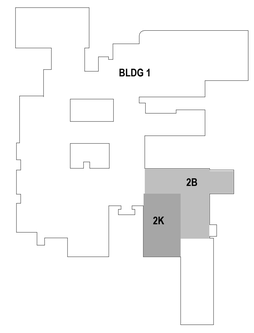

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RAED HAMID
082.060548
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - NEW WORK DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA B

Phase: ISSUED FOR BID

Approved: Project Director

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

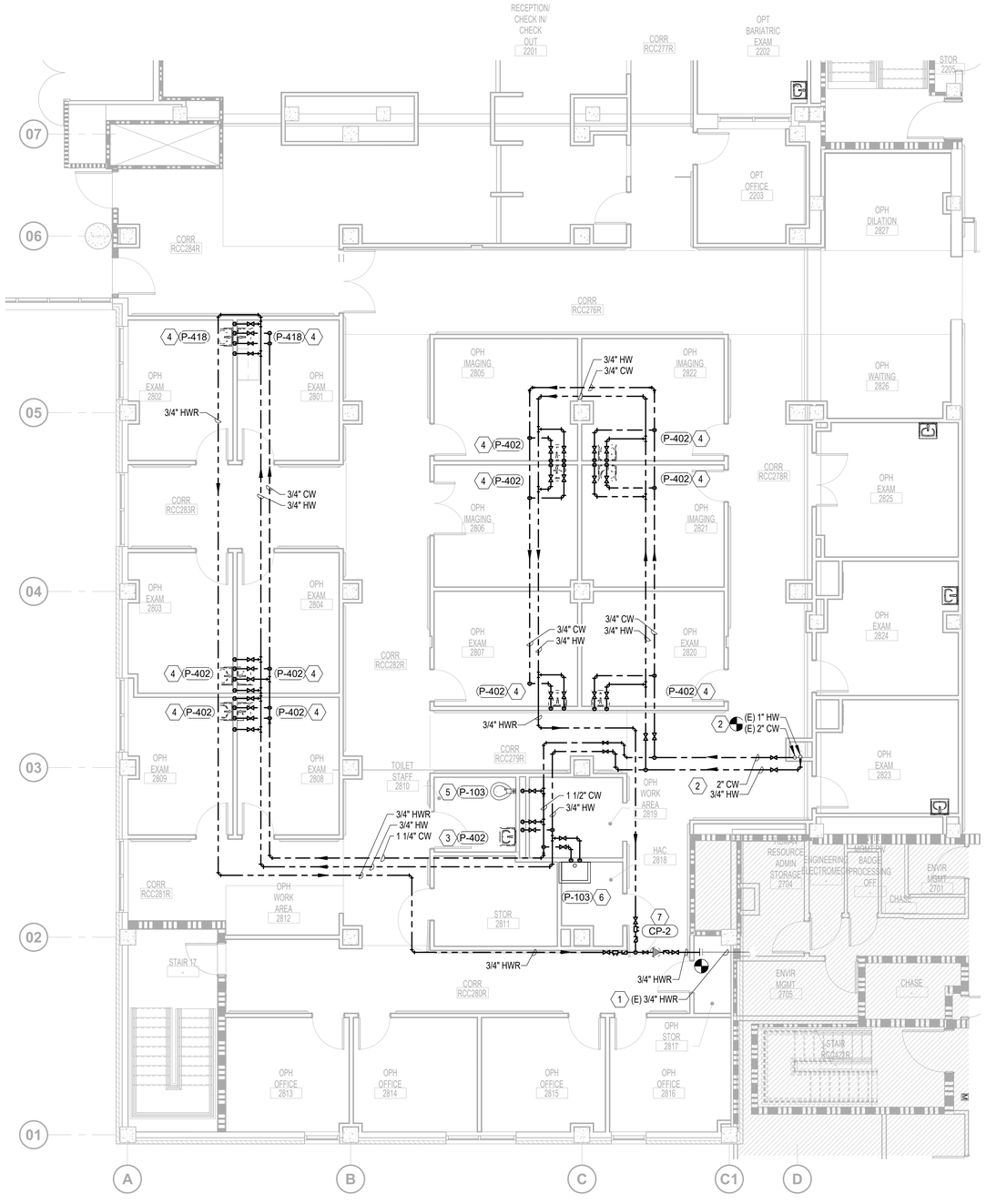
Issue Date: 05/15/2026

Checked: RH

Drawn: HS

Drawing Number: PW102B

VA FORM 08-6231



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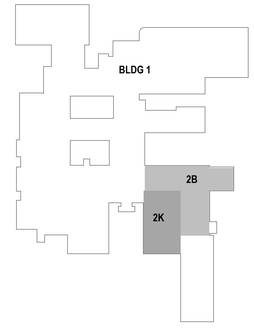

N

1 NEW WORK DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA K

3/16" = 1'-0"

0 4' 8' 12'

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REGISTERED PROFESSIONAL ENGINEER
RAED HAMID
062-065548
STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - NEW WORK DOMESTIC WATER PLAN - PARTIAL SECOND FLOOR - AREA K

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

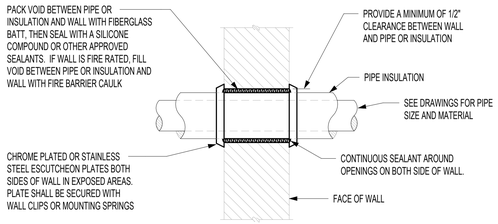
Issue Date: 05/15/2026

Checked: RH

Drawn: HS

Drawing Number: PW102K

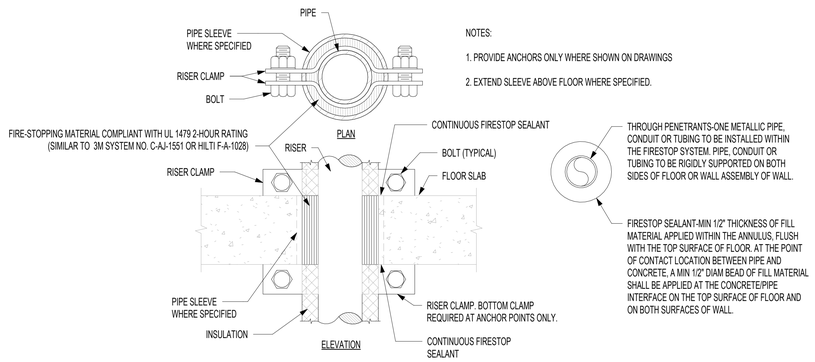
VA FORM 08-6231



NOTES:
1. I.D. OF WALL OPENING TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND / OR CONTRACTORS.
3. PIPE PENETRATIONS OF SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.

3 PIPE PENETRATION OF INTERIOR WALL

NOT TO SCALE



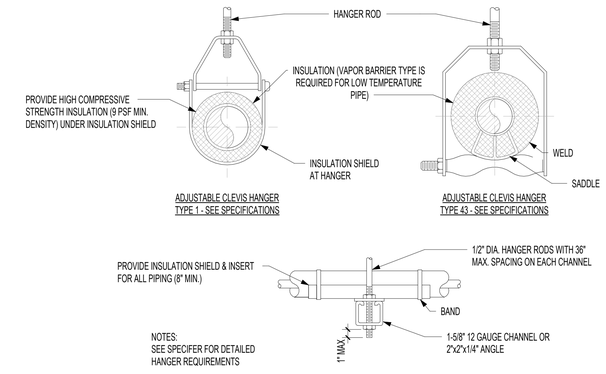
NOTES:

1. PROVIDE ANCHORS ONLY WHERE SHOWN ON DRAWINGS

2. EXTEND SLEEVE ABOVE FLOOR WHERE SPECIFIED.

2 SUPPORT / ANCHOR FOR PIPE RISERS

NOT TO SCALE

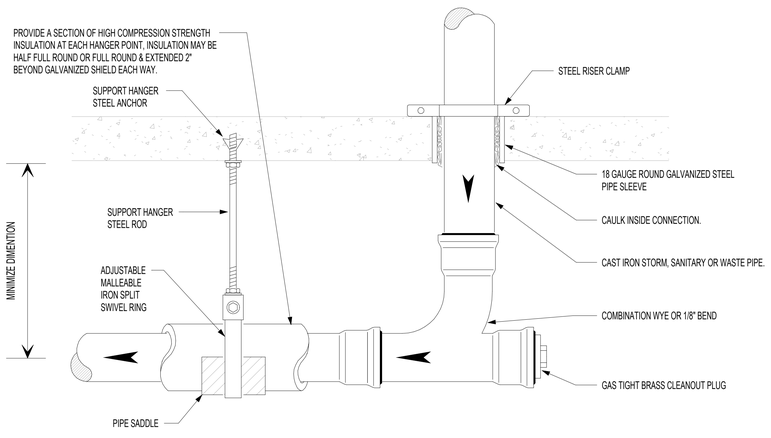


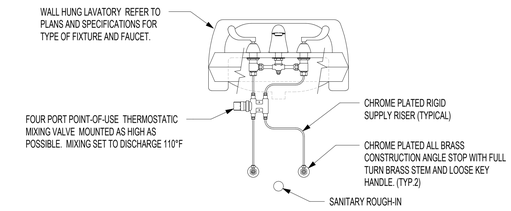
SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING									
NOM. SIZE	IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
PIPE	FT.	7	7	7	9	10	11	12	14
TUBING	FT.	5 FT	6	7	8	8	9	10	12
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.									

1 PIPE HANGER

NOT TO SCALE





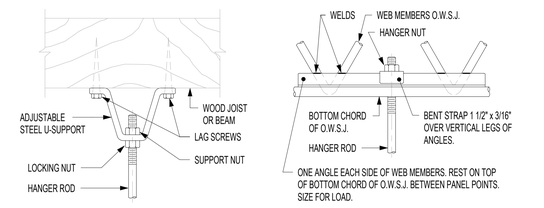
NOTE:

1. SEE ARCHITECTURAL DRAWINGS FOR LAVATORY MOUNTING HEIGHTS.

2. P-TRAP, TAIL PIECE, AND WASTE ARM NOT SHOWN FOR CLARITY.

3. FOR HANDICAP LAVATORY INSTALLATION ALL WASTE PIPING UNDER SINK SHALL BE WRAPPED WITH PROTECTIVE PIPE COVERS.

4. FOR HANDICAP LAVATORY INSTALLATION ANGLE STOP VALVES AND SUPPLY RISERS SHALL BE WRAPPED WITH PROTECTIVE PIPE COVERS. SUPPLY RISERS SHALL BE WRAPPED FROM STOP VALVES TO MIXING VALVE. ENDS OF PROTECTIVE WRAP SHALL BE CUT SQUARE AND TIE WRAPPED CLOSED.



PIPE HANGERS AND SUPPORTS
SUPPORT HORIZONTAL STEEL AND COPPER PIPING AS FOLLOWS:

NOMINAL PIPE SIZE	DISTANCE BETWEEN SUPPORTS	HANGER ROD DIAMETERS
3/4" TO 1-1/2"	6'	1/2"
2" TO 2-1/2"	10'	1/2"
3" TO 4"	12'	5/8"
6" TO 12"	14'	7/8"
14" TO 18"	20'	1"

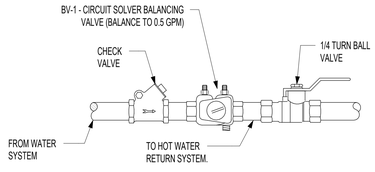
PLACE HANGER WITHIN 1 FOOT OF EACH HORIZ. ELBOW. SUPPORT HORIZ. SOIL WASTE AND STORM PIPE NEAR EACH HUB, WITH 5 FEET MAXIMUM SPACING BETWEEN HANGERS.

VERTICAL PIPING:
1. SUPPORT VERTICAL WATER PIPING AT EVERY FLOOR.
2. SUPPORT VERTICAL SOIL PIPE AT EACH FLOOR AT HUB.

WHERE SEVERAL PIPES CAN BE INSTALLED IN PARALLEL AND AT SAME ELEVATION PROVIDE MULTIPLE OR TRAPEZE HANGERS. WHERE PRACTICAL, SUPPORT RISER PIPING INDEPENDENTLY OF CONNECTED HORIZ. PIPING.

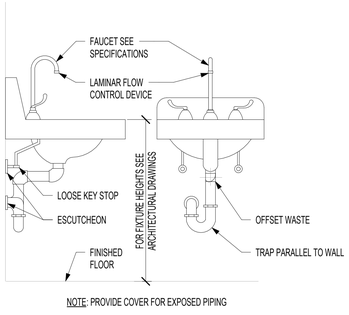
4 PIPE HANGER

NOT TO SCALE



8 HOT WATER CIRCULATION (HWC) VALVE ASSEMBLY

NOT TO SCALE



NOTE: PROVIDE COVER FOR EXPOSED PIPING

7 TYPICAL WHEELCHAIR LAVATORY

NOT TO SCALE

5 LAVATORY MIXING VALVE

NOT TO SCALE

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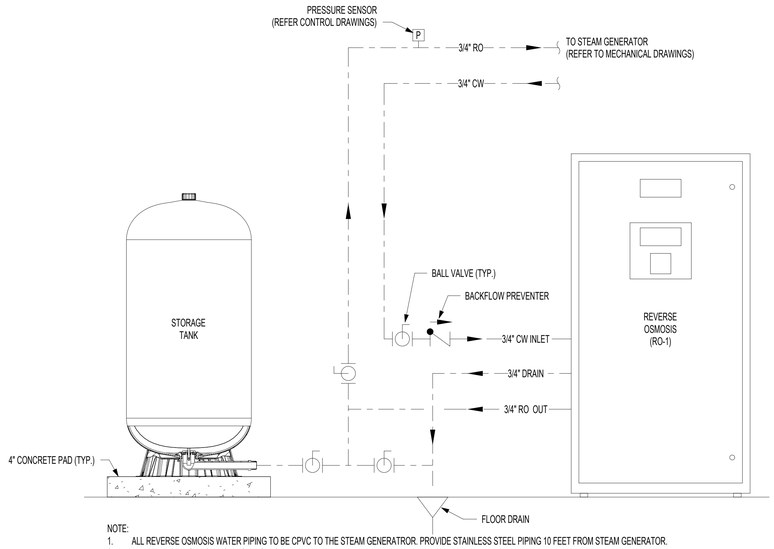
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DETAILS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director		Location: BIRMINGHAM VAMC	Drawing Number: P501
		Issue Date: 05/15/2026 / Checked: RH / Drawn: HS	

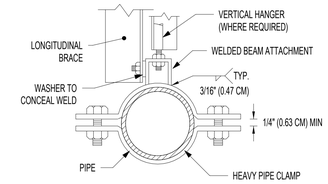
VA FORM 08-6231



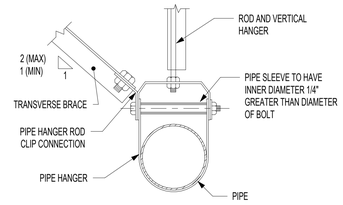
NOTE:
1. ALL REVERSE OSMOSIS WATER PIPING TO BE CPVC TO THE STEAM GENERATROR. PROVIDE STAINLESS STEEL PIPING 10 FEET FROM STEAM GENERATOR.
2. ALL DRAIN PIPING FROM RO-1 TO BE CPVC.

3 REVERSE OSMOSIS WATER PIPING DIAGRAM

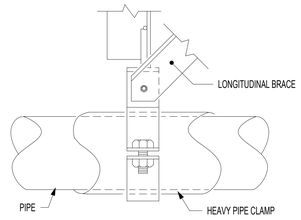
NOT TO SCALE



LONGITUDINAL BRACING FOR PIPES
NO SCALE



TRANSVERSE BRACING FOR PIPES
NO SCALE



NOTE TO CONTRACTOR:
THESE DETAILS ARE DIAGRAMMATIC. ALL FINAL SEISMIC RESTRAINTS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 13 05 41 AND VA HANDBOOK H-18-8. NON-STRUCTURAL SEISMIC RESTRAINT SYSTEMS SHALL BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER AS DELEGATED BY THE CONTRACTOR.

SEISMIC BRACING NOTES

GENERAL

1. NO BRACING IS REQUIRED IF THE TOP OF THE PIPE IS SUSPENDED 12 INCHES OR LESS FROM THE SUPPORTING STRUCTURAL MEMBER.

2. WALLS, INCLUDING DRYWALL PARTITIONS, MAY REPLACE REQUIRED TRANSVERSE OR VERTICAL BRACING FOR DUCTWORK OR PIPING.

PIPING

3. BRACE ALL PIPES 2 1/2 INCHES IN DIAMETER AND LARGER. IN MECHANICAL ROOMS ALSO BRACE 1 1/4", 1 1/2" AND 2 INCH PIPING AS FOR 2 1/2" PIPING. BRACE ALL FUEL GAS AND COMPRESSED AIR PIPING 1" AND LARGER.

4. TRANSVERSE AND VERTICAL BRACING SHALL OCCUR AT 40 FOOT INTERVALS, MAXIMUM UNLESS NOTED OTHERWISE. LONGITUDINAL BRACING SHALL OCCUR AT 80 FOOT INTERVALS, MAXIMUM. WHEN THERMAL EXPANSION OR CONTRACTION IS INVOLVED, PROVIDE LONGITUDINAL BRACING AT ANCHOR POINTS. THE LONGITUDINAL BRACES AND THE CONNECTIONS MUST BE CAPABLE OF RESISTING THE FORCE INDUCED BY EXPANSION AND CONTRACTION.

5. AT PIPE RISERS, WHEREVER POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER.

6. DO NOT FASTEN ONE RIGID PIPING SYSTEM TO DISSIMILAR PARTS OF THE BUILDING THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE; FOR EXAMPLE, A WALL AND A ROOF.

7. DO NOT USE BRANCH LINES TO BRACE MAIN LINES.

EQUIPMENT

8. FLOOR OR PAD MOUNTED EQUIPMENT, WITHOUT VIBRATION ISOLATORS, SHALL BE BOLTED TO THE OTHER SUPPORT.

9. FLOOR MOUNTED EQUIPMENT, WITH VIBRATION ISOLATORS, SHALL BE PROVIDED WITH LATERAL AND VERTICAL RESTRAINING DEVICES ON ALL SIDES OF THE BASE TO RESTRICT DISPLACEMENT OF THE EQUIPMENT.

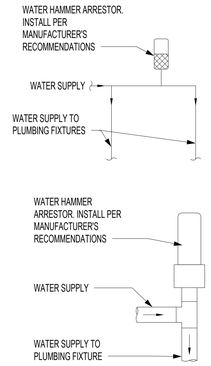
10. ON ALL SIDES OF SUSPENDED EQUIPMENT, PROVIDE BRACING FOR RIGID SUPPORTS AND PROVIDE RESTRAINTS FOR RESILIENTLY SUPPORTED EQUIPMENT.

2 SEISMIC BRACING FOR PIPES

NOT TO SCALE

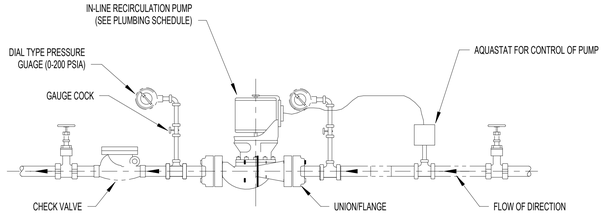
WATER HAMMER ARRESTOR SIZE		
MODEL	CONNECTION DIAMETER (IN.)	FIXTURE UNITS
Z1700-100	3/4	1-11
Z1700-200	3/4	12-32
Z1700-300	1	33-60
Z1700-400	1	61-113
Z1700-500	1	114-154
Z1700-600	1	155-330

SIZING BASED ON ZURN SERIES Z1700



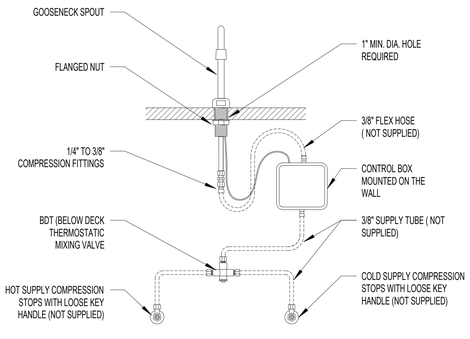
1 WATER HAMMER ARRESTOR DETAIL

NOT TO SCALE



5 INLINE TYPE HOT WATER RECIRCULATION PUMP DETAIL

NOT TO SCALE



4 LAVATORY MIXING VALVE DETAIL (AUTOMATIC FAUCET)

NOT TO SCALE

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100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
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65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO. 36C24724C0036
1471 E Business Center Dr,
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www.bancroft-ae.com
Bancroft Project No. 23-135

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DETAILS

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

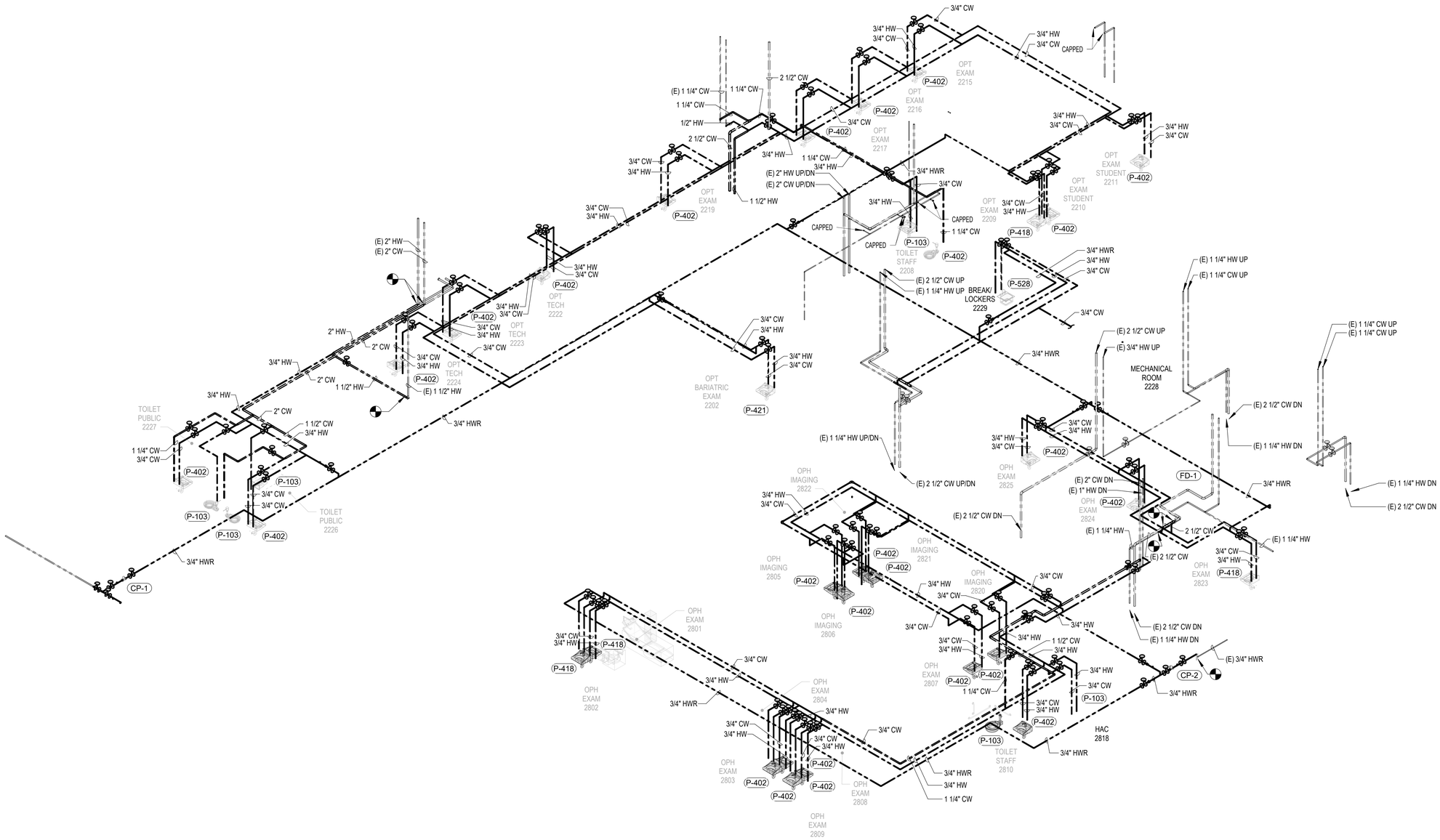
Checked: RH

Drawn: HS

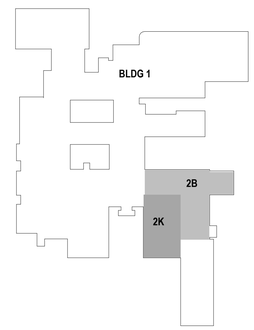
Drawing Number: P502

Approved: Project Director

VA FORM 08-6231



OVERALL RISER DIAGRAM



KEYPLAN

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RAED HAMD 082.060548 OF ILLINOIS REGISTERED PROFESSIONAL ENGINEER
05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - DOMESTIC WATER RISER DIAGRAM - SECOND FLOOR

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: RH

Drawn: HS

Drawing Number: P601

VA FORM 08-6231

REVERSE OSMOSIS WATER UNIT SCHEDULE

TAG	MANUFACTURER/MODEL	LOCATION	SERVICE	PRODUCTION FLOW (GPD)	TOTAL # OF MEMBRANES	FEED PRESSURE (PSI)	OPERATING TEMPERATURE	MOTOR			NOTES
								VOLTS	PHASE	AMP MAX	
RO-1	ULTRAPURE - VISTA - 800 GPD	MECHANICAL 5D-136	HUMIDIFIER	661	1	50-125	34-110 DEG F	120	1	MFS 15	1,2,3

NOTES:
1. OTHER ACCEPTABLE MANUFACTURER'S: VA APPROVED EQUAL
2. PROVIDE WITH COMPLETE WITH ACTIVE CARBON FILTER, UV SYSTEM FOR STERILIZATION OF WATER, AND CONDUCTIVITY METER/ALARM.
3. PROVIDE WITH 85 GAL RO WATER STORAGE TANK.

HOT WATER CIRCULATION PUMP

MARK	LOCATION	GPM	HEAD (ft)	ELECTRICAL DATA					MANUFACTURER	MODEL	REMARKS
				RPM	FLA	VOLT	HP	PHASE			
CP-1	ELEVATOR LOBBY CORRIDOR	2.5	15	2650	1.4	115	1/12	1	BELL & GOSSETT	PL-30	NOTES 1 AND 2
CP-2	CORRIDOR RCC280R	1	15	2650	1.4	115	1/12	1	BELL & GOSSETT	PL-30	NOTES 1 AND 2

REMARKS:
1. PROVIDE LINE VOLTAGE AQUASTAT WTH ADJUSTABLE SETTING AND TRANSFORMER .
2. PROVIDE LEAD-FREE PUMP WITH DRIP-PROOF MOTOR.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	LOCATION	DOMESTIC COLD WATER	DOMESTIC HOT WATER	SANITARY	VENT	REMARKS
P-102	FLOOR MOUNTED WATER CLOSET	STAFF TOILETS/MEN'S AND WOMEN'S TOILET	1 1/4"	-	4"	2"	FLOOR MOUNTED, BACK DISCHARGE, MANUAL FLUSH VALVE, 1.6 GPF WATER CLOSET WITH ELONGATED FRONT; VITREOUS CHINA, 1 1/2" TOP SPUD. PROVIDE WITH MANUFACTURER RECOMMENDED TOILET SEAT. KOHLER ANGLESEY K-4386 WITH SLOAN 111 @ 1.6 GPF MANUAL FLUSH VALVE OR APPROVED EQUAL.OR APPROVED EQUAL.
P-604	ELECTRIC BOTTLE FILLING STATION	CORRIDOR	1/2"	-	2"	1 1/2"	ELECTRIC BOTTLE FILLING STATION (MECHANICALLY COOLED, WALL HUNG, SELF-CONTAINED) 8 GPH MINIMUM CAPACITY, LEAD FREE. CABINET, STAINLESS STEEL FINISH, APPROXIMATELY (20 INCHES BY 4 INCHES BY 41 INCHES) HIGH WITH MOUNTING PLATE. SET SENSOR (33 INCHES) ABOVE FINISHED FLOOR. UNIT SHALL BE SENSOR OPERATED WITH AUTOMATIC STREAM REGULATOR. ALL TRIM POLISHED CHROME PLATED. ELKAY EZH2O MODEL LZS8WSLK OR APPROVED EQUAL.
P-402	WALL MOUNTED LAVATORY	EXAM ROOMS STAFF TOILETS	1/2"	1/2"	2"	1 1/4"	LAVATORY: WALL MOUNTED, WHITE VITREOUS CHINA, FRONT OVERFLOW, 8" ON CENTER HOLES, OVERALL DIMENSIONS 21" X 18". PROVIDE INSULATION PREMANUFACTURED FOR P-TRAP, STOP VALVE, AND SUPPLY LINES. PROVIDE THERMOSTATIC MIXING VALVE, ALL BRONZE, BRASS AND STEEL CONSTRUCTION. UNION INLETS WITH STRAINERS AND CHECK STOPS, DIAL THERMOMETER OUTLET. AMERICAN STANDARD #0356.015 OR APPROVED EQUAL. MANUAL FAUCET: ADA, 0.5 GPM, GOOSENECK, RIGID, LAMINAR FLOW, 2-WRIST BLADE HANDLES, DECK MOUNTED, BRUSHED/POLISHED INTERIOR AND TOP SURFACES, AND SOUND DEADEND. AMERICAN STANDARD "MONTERREY" 6540.175 OR APPROVED EQUAL. (WATER SENSE - 0.5 GPM)
P-418	WALL MOUNTED LAVATORY	EXAM ROOMS HANDSFREE SENSOR FAUCET (HARDWIRED)	1/2"	1/2"	2"	1 1/4"	ACCESSIBLE WALL MOUNTED LAVATORY, WHITE VITREOUS CHINA, FRONT OVERFLOW, SINGLE CENTER FAUCET HOLE, OVERALL DIMENSIONS 20 1/2" x 18 1/4" x 6 1/2". PROVIDE INSULATION PREMANUFACTURED FOR P-TRAP, STOP VALVE, ANS SUPPLY LINES. MOUNT TRANSFORMER IN ACCESSIBLE LOCATION. APPROVED ASME AND ANSI. ADA COMPLAINT. THERMOSTATIC MIXING VALVE, ALL BRONZE, BRASS AND STAINLESS STEEL CONSTRUCTION. UNION INLETS WITH STRAINERS AND CHECK STOPS, DIAL THERMOMETER ON OUTLET OR APPROVED EQUAL. HARDWIRED, SENSOR ACTIVATED SMART FAUCET, 4" TRIM PLATE, BELOW DECK THERMOSTATIC MIXING VALVE, POLISHED CHROME FINISH, 1.5 GPM, LAMINAR SPRAY. SLOAN OPTIMA HARD WIRED SENSOR FAUCET EBF-750-4-BDT-CP-1.5GPM-LAM-IR-BT-FCT OR APPROVED EQUAL. (WATER SENSE - 1.5 GPM)
P-421	FLOOR MOUNTED BARIATRIC LAVATORY	OPT BARIATRIC EXAM	1/2"	1/2"	2"	1 1/4"	BARIATRIC LAVATORY, FLOOR MOUNTED, SOLID MARINE-GRADE HIGH-DENSITY POLYETHYLENE CABINET, WELDED TYPE 304 STAINLESS STEEL PEDESTAL, SOLID MATERIAL, INTERGRATED D-SHAPE, 6" DEEP BOWL. PROVIDE WITH MANUFACTURER PROVIDED WRIST HANDLE GOOSENECK FAUCET. - WILLOUGHBY #BHS-3123 OR APPROVED EQUAL
P-528	UNDERMOUNT STAINLESS STEEL SINK	BREAKROOM/LOCKERS	1/2"	1/2"	2"	1 1/2"	SINGLE COMPARTMENT, UNDERMOUNT, STAINLESS STEEL SINK WITH 21"Wx15-3/4"Lx5-3/8"D INSIDE BOWL AND 23-1/2"Wx18-1/4"L OUTSIDE DIMENSIONS AND REAR CENTER DRAIN AND PROVIDE MIXING VALVE. PROVIDE WITH MANUAL 8" REACH GOOSENECK SPOUT, SOLID BRASS CONSTRUCTION, 6" WRIST BLADE HANDLES, 8" ON CENTER. - ELKAY ELUHAD211555 AND AMERICAN STANDARD "MONTERREY" 6540.180 OR APPROVED EQUAL. (WATER SENSE - 1.5 GPM).
P-101	MOP BASIN/SERVICE SINK	HAC	1/2"	1/2"	3"	1 1/2"	MOLDED STONE MOP SERVICE BASIN, 36" x 24" x 10" OVERALL DIMENSIONS. PROVIDE WITH HOSE AND BRACKET, STAINLESS STEEL WALL GUARD, SILICONE SEALANT AND MOP HANGER. FIAT MSB3624 OR APPROVED EQUAL MANUAL SERVICE SINK FAUCET, CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. FIAT 830AA000 OR APPROVED EQUAL
TMV-1	THERMOSTATIC MIXING VALVE	PATIENT ROOMS, ANTE ROOMS, NOURISHMENT, MEDICATION, ISOLATION PATIENT AND SOILED UTILITY	1/2"	1/2"	-	-	THERMOSTATIC MIXING VALVE, ADJUSTMENT CAP WITH LOCKING FEATURE, BRASS BODY, CORROSION-RESISTANT, 3/8" COMPRESSION INLETS AND OUTLETS. INTEGRAL INLET CHECK VALVES TO PROTECT AGAINST CROSS-FLOW. WALL BRACKET, HOT INLET TEMPERATURE: 120 DEGF TO 180 DEGF. 3/8" COMPRESSION TEE INLET CONNECTION FOR COLD WATER BYPASS FEATURE.CHICAGO FAUCETS - #131-CABNF.
BV-1	BALANCING VALVE	SEE PLANS	_	3/4"	_	_	HOT WATER RETURN BALANCING VALVE - CIRCUIT SOLVER MODEL #4-140
FD-E	FLOOR DRAIN	MECHANICAL ROOM	-	-	3"	2"	ROUND TOP DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR HEAVY-DUTY, DURESIST GRATE, TRAP PRIMER CONNECTION, CAST IRON SEDIMENT BUCKET, LOOSE SLOTTED GRATE. 12 1/4" DIAMETER TOP DRAIN. ZURN - #Z541 OR APPROVED EQUAL.
WCO	WALL CLEAN OUT	-	-	-	4"	2"	DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND, SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.

NOTES:
1. SIZES LISTED ARE MINIMUM CONNECTIONS REQUIRED TO FIXTURES.

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05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: PLUMBING - SCHEDULES

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

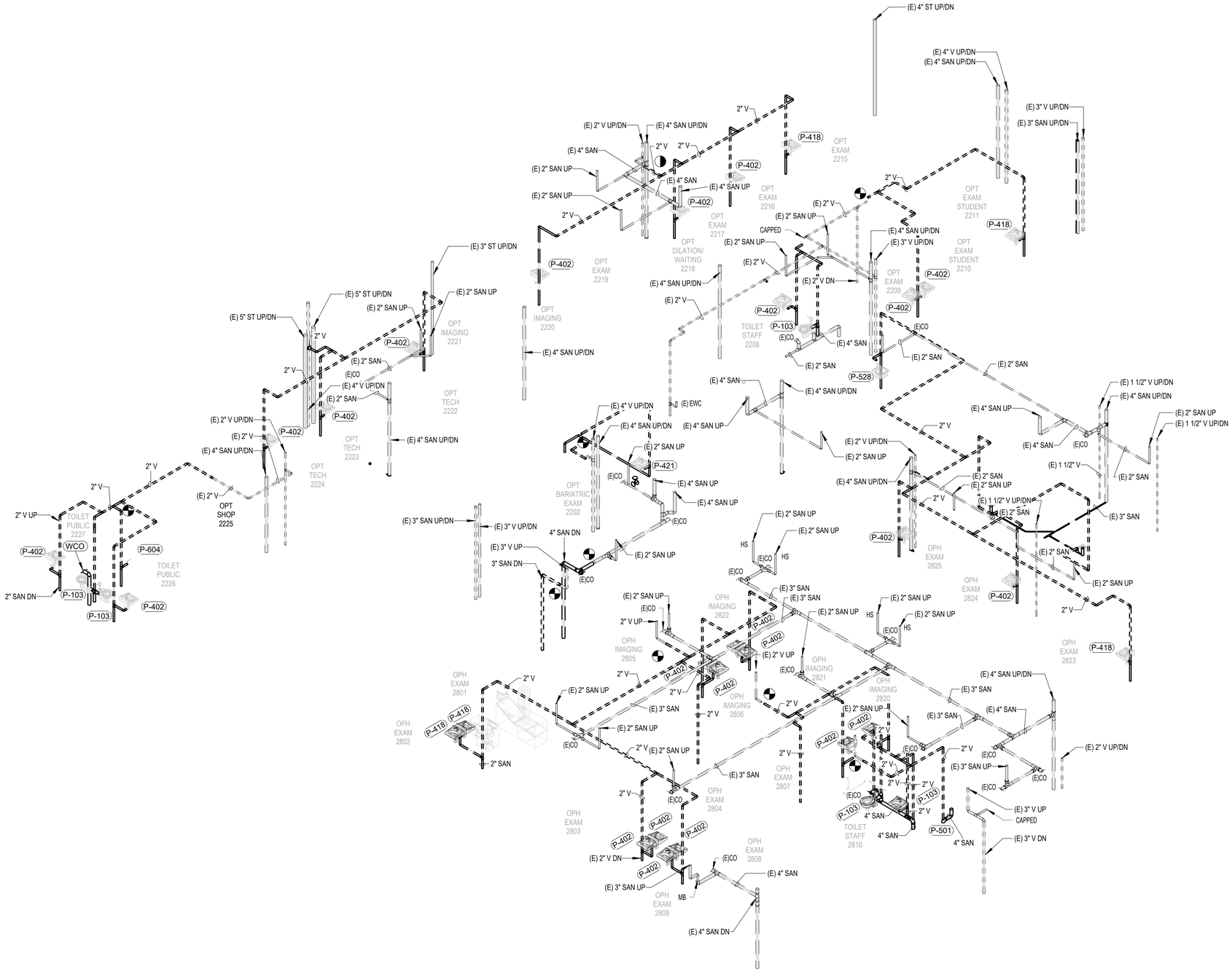
Approved: Project Director

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026 | Checked: RH | Drawn: HS

Drawing Number: P701

VA FORM 08-6231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(E) 4" V UP/DN
(E) 4" SAN UP/DN
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MECHANICAL GENERAL NOTES:

1. THIS CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS. INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, ALL STRUCTURAL, ALL MECHANICAL, ALL ELECTRICAL DRAWINGS AND ENTIRE PROJECT MANUAL. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF HIS WORK. THIS CONTRACTOR SHALL FULLY COORDINATE HIS WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL CHARGE TO THE VA.

2. THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE VA/CO AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND WORK, OR BETWEEN THEIR WORK AND THE WORK OF THEIR TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTING CONDITIONS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

3. DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, CONDUITS, RACEWAYS, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE VA OR DELAY IN COMPLETION DATE OF THE PROJECT.

4. IT IS THE INTENT OF THESE DOCUMENTS THAT THE MECHANICAL CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL WORK SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES, CONTROLS AND APPURTENANCES REQUIRED TO SET SYSTEMS INTO OPERATION.

5. SHOULD CONDITIONS NECESSITATE ANY REARRANGEMENTS, OR IF PIPING CAN BE RUN TO BETTER ADVANTAGE, PREPARE AND SUBMIT SHOP DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED BY THE VA/COR, THEY SHALL BECOME A PART OF THE CONTRACT AFTER THEIR APPROVAL

6. THIS CONTRACTOR SHALL VERIFY ALL MOUNTING, ALL ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, WEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED IMPROPERLY, IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK, ETC.

7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT FEDERAL BUILDING CODES, REGULATIONS, AND REQUIREMENTS, LOCAL UTILITY COMPANY REQUIREMENTS, AND ASHRAE STANDARDS.

8. THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.

9. THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS WORK AND MATERIALS FOR THE PERIOD AS REQUIRED IN THE SPECIFICATIONS. FROM FINAL ACCEPTANCE BY THE VA/COR.

10. THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, IN., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

11. CONTRACTOR SHALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED ARE CLEAR OF OBSTRUCTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY VA/COR BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.

12. THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH VA STIPULATIONS AS DIRECTED BY SAME.

13. CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. CONTRACTOR SHALL SCAN ALL SLABS PRIOR TO CORING. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE VA/COR. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT. WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE INSTALLING THEIR WORK.

14. CONTRACTOR SHALL STORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS STORED OUTSIDE OF THE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PLANKS AND/OR WOOD PALLETS. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARPS OR VISQUIN. ALL PIPING AND DUCTWORK WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE ALLOWED TO BE STORED OUTSIDE THE BUILDING ON THE SITE UNLESS IT IS SUPPORTED OFF THE GROUND AND COMPLETELY PROTECTED WITH WEATHERPROOF COVERS.

15. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED IN THE SPECIFICATIONS PRIOR TO THE START OF INSTALLATION FOR VA/COR APPROVAL AND THE SUCCESSFUL REVIEW BY THE ARCHITECT/ENGINEER.

16. THIS CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE VA BEFORE FINAL PAYMENT WILL BE ISSUED. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC REPRODUCIBLE FORM.

17. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE STARTUP AND TESTING OF ALL EQUIPMENT.

18. THIS CONTRACTOR SHALL PROVIDE A COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE VA IN THE OPERATION AND MAINTENANCE OF THE EQUIPMENT.

19. UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES. REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTONS BY THIS CONTRACTOR.

20. ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL, OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS TO THE VA/COR FOR RESOLUTION. FAILURE OF THE CONTRACTOR TO RESOLVE, OR POINT OUT ANY ISSUES WILL RESULT IN THE CONTRACTOR CORRECTING AT NO ADDITIONAL COST TO THE VA.

21. UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, LEAD, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE VA/COR IMMEDIATELY. IF THE CONTRACTOR DISTURBS THE HAZARDOUS MATERIALS THEY SHALL BEAR FULL RESPONSIBILITY FOR CONTAINMENT AND ABATEMENT.

22. IT IS MANDATORY THAT THE COMPLETE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF SAID EXISTING BUILDING. THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT IN CONTINUOUS OPERATION INCLUDING POWER, SIGNAL SYSTEMS, LIGHTING, TELEPHONE, HEATING, COOLING, VENTILATING, TEMPERATURE CONTROL, SEWERS AND HOT AND COLD WATER. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH CONTRACT WORK SHALL BE ARRANGED WITH THE VA/COR A MINIMUM OF TWENTY ONE (21) CALENDAR DAYS IN ADVANCE. SUCH INTERRUPTIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AS FAR AS TIME INTERVAL IS INVOLVED AND TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED BY THE CONTRACTOR ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.

23. IN CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS, OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT/CONTRACTING OFFICER, SHALL BE PROVIDED.

24. THE CONTRACTOR SHALL FOLLOW ALL TEST AND BALANCE (TAB) CRITERIA ESTABLISHED IN SPECIFICATION SECTIONS 01 91 00, 23 05 93, AND 23 08 00. THE CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE REPORTS ON THE AIR AND WATER FLOW RATES AND PRESSURES FOR ANY SYSTEM THAT IS BEING MODIFIED AND WILL CONTINUE TO OPERATE SERVING THIS PROJECT AREA OR AREAS EXTERNAL TO THE PROJECT AREA AT THE COMPLETION OF CONSTRUCTION. IN ADDITION TO PRE-CONSTRUCTION TAB, THE CONTRACTOR IS RESPONSIBLE FOR INTERIM BALANCE REPORTS AT PROJECT MILESTONES OR AS REQUESTED BY THE GOVERNMENT. AN ADDITIONAL TAB SHALL BE PERFORMED AFTER DEMO TO VALIDATE ACCEPTABLE OPERATION OF EXISTING SYSTEMS THAT WERE MODIFIED DURING DEMOLITION. THE CONTRACTOR SHALL TAB ALL NEW WORK AS REQUIRED BY THE VA SPECIFICATIONS. ALL TAB REPORTS AND INTERIM BALANCE REPORTS SHALL BE PROMPTLY SUBMITTED TO THE VA COR FOR REVIEW. ACCEPTABLE TAB TOLERANCES SHALL BE +/- 10% FOR AIR AND +/- 5% FOR WATER.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COMMISSIONING REQUIREMENTS IN VA SPECIFICATION SECTIONS 01 91 00, 23 08 00, AND ANY OTHER COMMISSIONING REQUIREMENTS IN THE PROJECT SPECIFICATIONS.

MECHANICAL EQUIPMENT NOTES:

1. ALL EQUIPMENT/DEVICES SHALL BE AND OF FIRST RATE QUALITY (UNLESS OTHERWISE SPECIFIED) AND IS TO BEAR THE APPROPRIATE AGA, CSA OR UL APPROVED LABELS, LISTINGS, AND CERTIFICATIONS FOR THE SPECIFIC DESIGN PURPOSE.

2. ALL EQUIPMENT SOUND LEVELS SHALL NOT EXCEED 50 DB AT PROPERTY LINE.

3. ALL INTERCONNECTING WIRING AT UNIT SHALL BE FACTORY PRE-WIRED AND REQUIRE ONLY ONE (1) POWER CONNECTION TO THE UNIT BY THE ELECTRICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE BY THE ELECTRICAL CONTRACTOR.

4. SUBMIT THE REQUIRED NUMBER OF COPIES OF EACH CATALOG CUT, FOR THE EQUIPMENT SPECIFIED, TO THE VA/COR FOR APPROVAL AND TO THE ARCHITECT /ENGINEER FOR HIS/HER SUCCESSFUL REVIEW PRIOR TO THE BEGINNING OF CONSTRUCTION. THIS CONTRACTOR SHALL ALSO ASSEMBLE PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED AND BIND TOGETHER WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS. SUBMIT THE REQUIRED NUMBER OF COPIES TO THE VA/COR FOR HIS/HER SUCCESSFUL REVIEW. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE TO THE VA COR DIGITAL COPIES OF ALL INSTRUCTIONS, O&M MANUALS, LINE DIAGRAMS, ETC. FOR ARCHIVE/RECORDS BEFORE THE CONCLUSION OF CONSTRUCTION.

5. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS OF DESIGN INCLUDING ALL DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE VA. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS AND THE VA TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND TO FUNCTION AS INTENDED.

6. CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT HE SUBMITS FOR REVIEW MEET THE CAPACITY AND DUTY SPECIFIED. WHEN EQUIPMENT SUBMITTED FOR REVIEW REQUIRES MODIFICATIONS TO THE WORK OF OTHER CONTRACTORS, SUBMITTING CONTRACTOR SHALL PAY FOR ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, VA, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT FUNCTION SAFELY AND PROPERLY.

7. CONTRACTOR MUST FIELD VERIFY SIZES, CAPACITIES, WEIGHTS, HORSE POWERS, ETC. ON ALL EQUIPMENT. NOTIFY THE VA/COR IF ANY DISCREPANCIES EXIST BETWEEN THE ACTUAL FIELD CONDITIONS AND THE DRAWINGS.

8. CONTRACTOR SHALL PROCURE EQUIPMENT WITH NEMA PREMIUM MOTORS, PROVIDE VFDs ON NEW EQUIPMENT, AND PROVIDE BAS SUPPORT WITH kW/kWh TRENDING.

ENGINEERING DISCIPLINE REFERENCE NOTES

SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL WORK LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED HEREIN.

EQUIVALENCY SUBSTITUTIONS: THE "BASIS OF DESIGN" (BOD) COMPLIANCE PROTOCOLS" ARE TO BE FOLLOWED FOR ALL MATERIALS, EQUIPMENT, ASSEMBLIES AND SYSTEMS SPECIFIED AND DETAILED THROUGHOUT ALL DRAWINGS AND SPECIFICATION SECTIONS, WHETHER THE BOD DESIGNATE IS SPECIFICALLY REFERENCED THEREIN OR NOT. SEE THE GENERAL DRAWINGS SECTION FOR THE SPECIFIC BOD COMPLIANCE REQUIREMENTS AND PROTOCOLS TO BE FOLLOWED.

MECHANICAL SYMBOLS AND ABBREVIATIONS

AD	ACCESS DOOR
ACH	AIR CHANGES PER HOUR
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BOD	BASIS OF DESIGN
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CO	CONTRACTING OFFICER
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CUH	CABINET UNIT HEATER
D	DRAIN LINE
(D)	DEMOLISH AND REMOVE
DB	DRY BULB
DH	DOOR HEATER
DN.	DOWN
(E)	EXISTING TO REMAIN
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FPF	FINS PER FOOT
FPM	FEET PER MINUTE
FT	FLASH TANK
G	NATURAL GAS
GC	GENERAL CONTRACTOR
GLY	GLYCOL
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HWC	HOT WATER COIL
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
LAT	LEAVING AIR TEMPERATURE
LPCS	LOW PRESSURE CLEAN STEAM
LWT	LEAVING WATER TEMPERATURE
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MU	MAKE-UP WATER
OA	OUTSIDE AIR
ODP	OPEN DRIP PROOF
NK	NECK
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP
PHC	PREHEAT COIL
PP	PRESSURE PUMP
PSI	POUNDS PER SQUARE INCH
PRV	PRESSURE REDUCING VALVE
RPM	REVOLUTIONS PER MINUTE
RO	REVERSE OSMOSIS
SF	SUPPLY FAN
SOW	SCOPE OF WORK
SP	STATIC PRESSURE
TC	TEMPERATURE CONTROL
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
W.C.	WATER COLUMN
WG	WATER GAUGE

BUTTERFLY VALVE

GLOBE VALVE

GATE VALVE

CHECK VALVE

BALL VALVE (2" & SMALLER)
BUTTERFLY VALVE (2 1/2" & LARGER)

3 WAY CONTROL VALVE

2 WAY CONTROL VALVE

CIRCUIT BALANCING VALVE W/BALANCING PORTS (8" AND UNDER) CIRCUIT FLOW INDICATOR W/BALANCING PORTS AND MEMORY STOP BUTTERFLY VALVE FOR BALANCING (10" AND ABOVE)

S — SOLENOID VALVE

PRESSURE REDUCING VALVE

PLUG VALVE (GAS COCK)

PRESSURE RELIEF VALVE (PIPE TO FLOOR DRAIN)

D — DRAIN VALVE WITH HOSE THREADED OUTLET

AUTOMATIC BALL OR BUTTERFLY VALVE

PIPE UNION (OR FLANGES IF 2 1/2" OR LARGER PIPE)

CONCENTRIC PIPE REDUCER OR INCREASER

STEAM TRAP ASSEMBLY

PS — PRESSURE SWITCH (WITH THREAD OR WELD-O-LET)

PRESSURE GAUGE AND NEEDLE VALVE

FS — FLOW SWITCH (WITH THREAD OR WELD-O-LET)

THERMOMETER (WITH PIPE WELL)

THERMOMETER WELL

TEMPERATURE WELL WITH DDC SENSOR

PRESSURE WELL WITH DDC SENSOR

PRESSURE/TEMPERATURE PLUG WITH CAP

STRAINER

STRAINER WITH BLOWDOWN VALVE

REFRIGERANT EXPANSION VALVE

DIRECTION OF FLOW

PITCH — PITCH OF PIPE (DOWN)

PIPE ELBOW (TURNED UP)

PIPE ELBOW (TURNED DOWN)

PIPE TEE DOWN (DROP)

PIPE TEE UP

PIPE TEE UP OR ANGLE

PIPE TEE DOWN OR ANGLE

NC — NEW CONNECTION

ANCHOR

D — DRAIN LINE

CHWS — CHILLED WATER SUPPLY

CHWR — CHILLED WATER RETURN

CR — CONDENSATE RETURN

G — NATURAL GAS

HWS — HOT WATER SUPPLY

HWR — HOT WATER RETURN

HPS — HIGH PRESSURE STEAM SUPPLY

HPR — HIGH PRESSURE CONDENSATE RETURN

LPS — LOW PRESSURE STEAM (UP TO 15 PSIG)

LPR — LOW PRESSURE CONDENSATE (UP TO 15 PSIG)

MPS — MEDIUM PRESSURE STEAM SUPPLY

MPR — MEDIUM PRESSURE STEAM RETURN

PCR — PUMPED CONDENSATE RETURN

VC — VACUUM CONDENSATE

FLEXIBLE DUCT CONNECTION

MANUAL SINGLE BLADE OR OPPOSED BLADE DAMPER

MOTOR OPERATED DAMPER

FID — VERTICAL FIRE DAMPER WITH ACCESS DOOR

AIR FLOW

12x24 — DUCT SIZE FREE AREA (1ST FIGURE, SIDE OF DUCT SHOWN)

CROSS-SECTION OF SUPPLY OR OUTSIDE AIR INTAKE DUCT

CROSS-SECTION OF RETURN DUCT

CROSS-SECTION OF EXHAUST DUCT

R / D — INCLINED RISE (R) OR DROP (D)

90° ELBOW WITH TURNING VANES

90° BRANCH TAKE-OFF W/45 DEGREE ENTRY

ROUND FLEXIBLE DUCT

SQUARE OR RECTANGLE DUCT TRANSITION

SQUARE OR RECTANGLE TO ROUND DUCT TRANSITION

DUCT UP TO ROOF MOUNTED EXHAUST FAN OR VENTILATOR

XXX-1 — EQUIPMENT TAG

WALL THERMOSTAT OR TEMPERATURE SENSOR

WALL THERMOSTAT OR TEMPERATURE SENSOR WITH GUARD

H — WALL HUMIDISTAT

Ø — ROUND

PIPING, DUCTWORK, OR EQUIPMENT TO BE REMOVED

DSD — DUCT SMOKE DETECTOR

START OF DEMOLITION AT THIS POINT OF LOCATION

CONNECT TO EXISTING

DAMPER

EXISTING TERMINAL UNIT TO BE DEMOLISHED AND REMOVED. RETURN UNIT TO VA.

EXISTING RETURN GRILLE TO BE DEMOLISHED AND REMOVED. RETURN TO VA.

EXISTING SUPPLY DIFFUSER TO BE DEMOLISHED AND REMOVED. RETURN TO VA.

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05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title MECHANICAL - GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	**Phase** ISSUED FOR BID	**Project Title** RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	**Project Number** 521-24-102
			Building Number #1
Approved: Project Director		**Location** BIRMINGHAM VAMC	**Drawing Number** M001
		Issue Date 05/15/2026 / **Checked** RH / **Drawn** RR	

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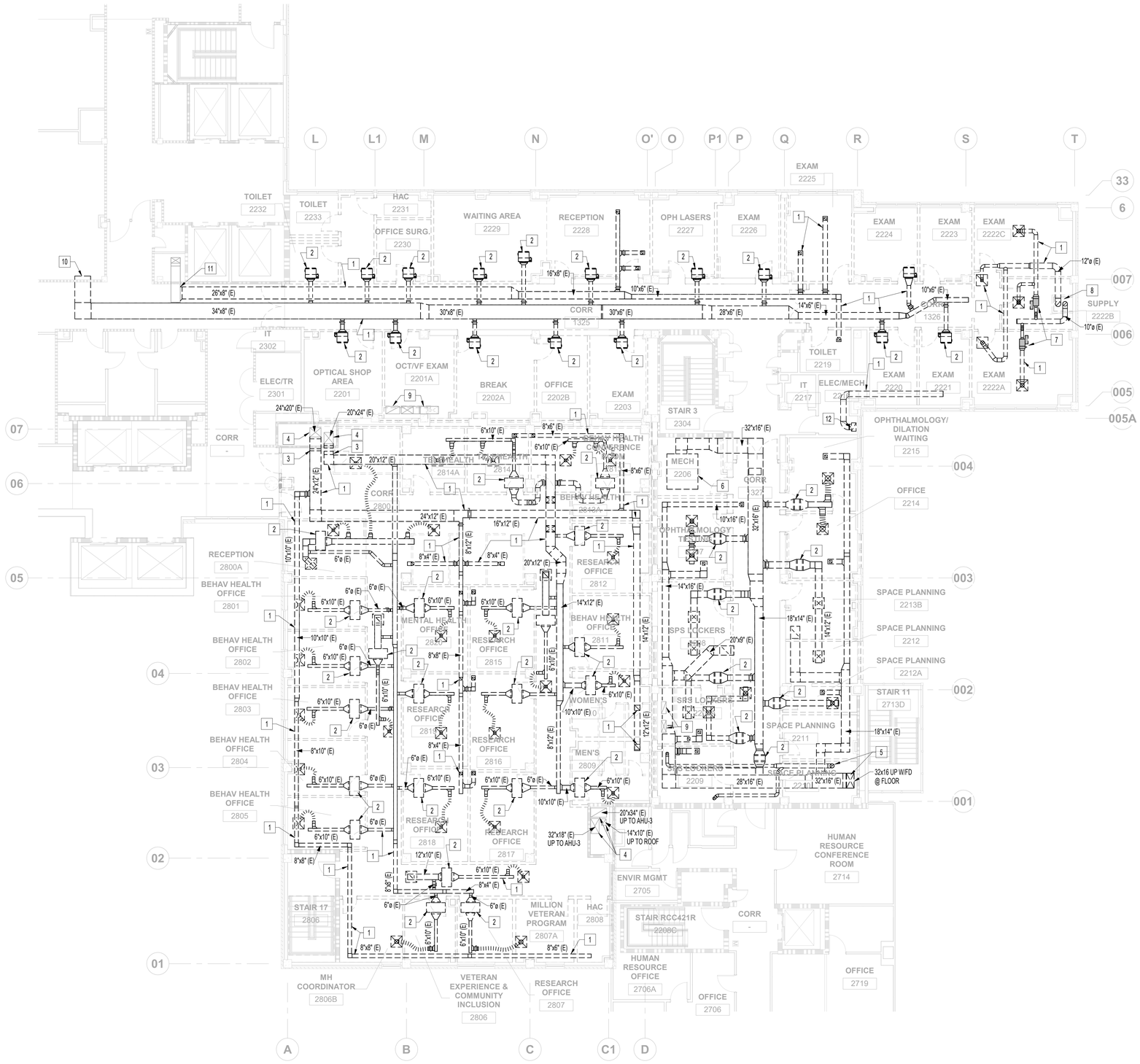


GENERAL NOTES

A. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. ON REUSED OR EXISTING DUCTWORK.

B. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE (TAB) AT ALL HVAC SYSTEMS BEING MODIFIED AND NOT COMPLETELY REMOVED. SUBMIT TAB REPORT TO VA COR PRIOR TO COMMENCING WORK.

C. DEMOLISH AND REMOVE ALL EQUIPMENT AND DUCTWORK SHOWN DASHED UNLESS OTHERWISE INDICATED.

D. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS. CONTRACTOR SHALL NOTIFY THE VA COR OF THE INTENTION TO CLOSE OR SEAL ANY DUCTWORK PRIOR TO COMMENCING WORK TO AVOID DAMAGING OR STRAINING EQUIPMENT MOTORS.

E. COORDINATE ALL SERVICE OUTAGES WITH VA COR A MINIMUM OF 21 CALENDAR DAYS PRIOR TO COMMENCING WORK.

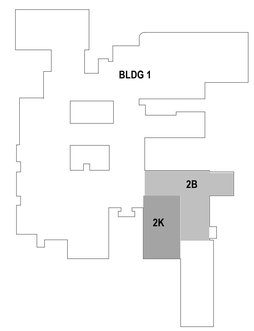
F. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

[X] MECHANICAL DEMOLITION KEY NOTES

1. REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
2. REMOVE EXISTING FAN COIL UNITS AND ASSOCIATED DUCTWORK, HANGERS, INSULATION, SUPPORTS, CONTROLS, ETC. (TYPICAL FOR ALL FAN COILS). REMOVE FAN COIL UNIT FROM METASYS SYSTEM.
3. REMOVE SECOND FLOOR DUCTWORK BACK TO MAIN RISER COMING FROM ERV-1 ON 4K ROOF. REBALANCE EXISTING TO REMAIN DUCTWORK SYSTEM TO PROVIDE PRE-CONSTRUCTION AIRFLOWS TO OTHER FLOORS. PROVIDE FINAL BALANCE REPORT TO THE VA COR TO VERIFY THE AIRFLOWS ARE ACCEPTABLE IN ACCORDANCE WITH THE PRE-CONSTRUCTION RESULTS.
4. EXISTING DUCTWORK TO REMAIN, PROTECT DURING CONSTRUCTION. REPLACE IMPACTED FILTERS IN EXISTING DUCTWORK TO REMAIN.
5. REMOVE EXHAUST DUCTWORK UP TO THIRD FLOOR ALONG WITH ASSOCIATED EXHAUST FAN, SUPPORTS, HANGERS, ETC. PATCH AND SEAL ALL ABANDONED OPENINGS TO MATCH EXISTING SURROUNDING CONDITIONS. REFER TO SHEET MD201 DETAILS 1 AND 3 FOR CONTINUATION.
6. REMOVE EXISTING AIR HANDLING UNIT INCLUDING ALL EXISTING DUCTWORK, INSULATION, SUPPORTS, CONTROLS, PIPING, ETC.
7. REMOVE EXISTING VAV BOXES INCLUDING ALL ASSOCIATED COMPONENTS.
8. DUCTWORK CONTINUES DOWN TO FIRST FLOOR BELOW. CAP DUCTWORK IN FIRST FLOOR CEILING AND REBALANCE EXISTING BRANCH TO REMAIN TO PROVIDE PRE-CONSTRUCTION AIRFLOWS FROM REMAINING SYSTEM.
9. EXISTING SUPPLY AND RETURN DUCTWORK UP TO 1-AHU-2 ON 4K ROOF AND DOWN TO SERVE ONCOLOGY SUITE ON FIRST FLOOR. PROTECT DURING CONSTRUCTION. SEE SHEETS MD103 AND M202 FOR CONTINUATION.
10. DEMOLISH EXISTING SUPPLY DUCTWORK FROM AHU 1-AC-7 BACK TO ROOM 2C-108. CAP AND SEAL DUCTWORK WITHIN MECHANICAL AT THE NEAREST TAKEOFF WITHOUT INTERFERING WITH EXISTING TO REMAIN CONDITIONS.
11. DEMOLISH EXISTING RETURN/EXHUST DUCTWORK BACK TO TAKEOFF NEAR RISER. CAP AND SEAL DUCTWORK AT MAIN TAKEOFF.
12. DEMOLISH EXISTING EXHAUST DUCTWORK UP TO CONNECTION TO CHASE ON THIRD FLOOR ABOVE. PATCH AND SEAL FLOOR OPENING TO MATCH EXISTING SUROUNDINGS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DETAILS. REFER TO SHEET MD201 DETAILS 2 AND 4 CONTINUATION.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

N

1 VENTILATION DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

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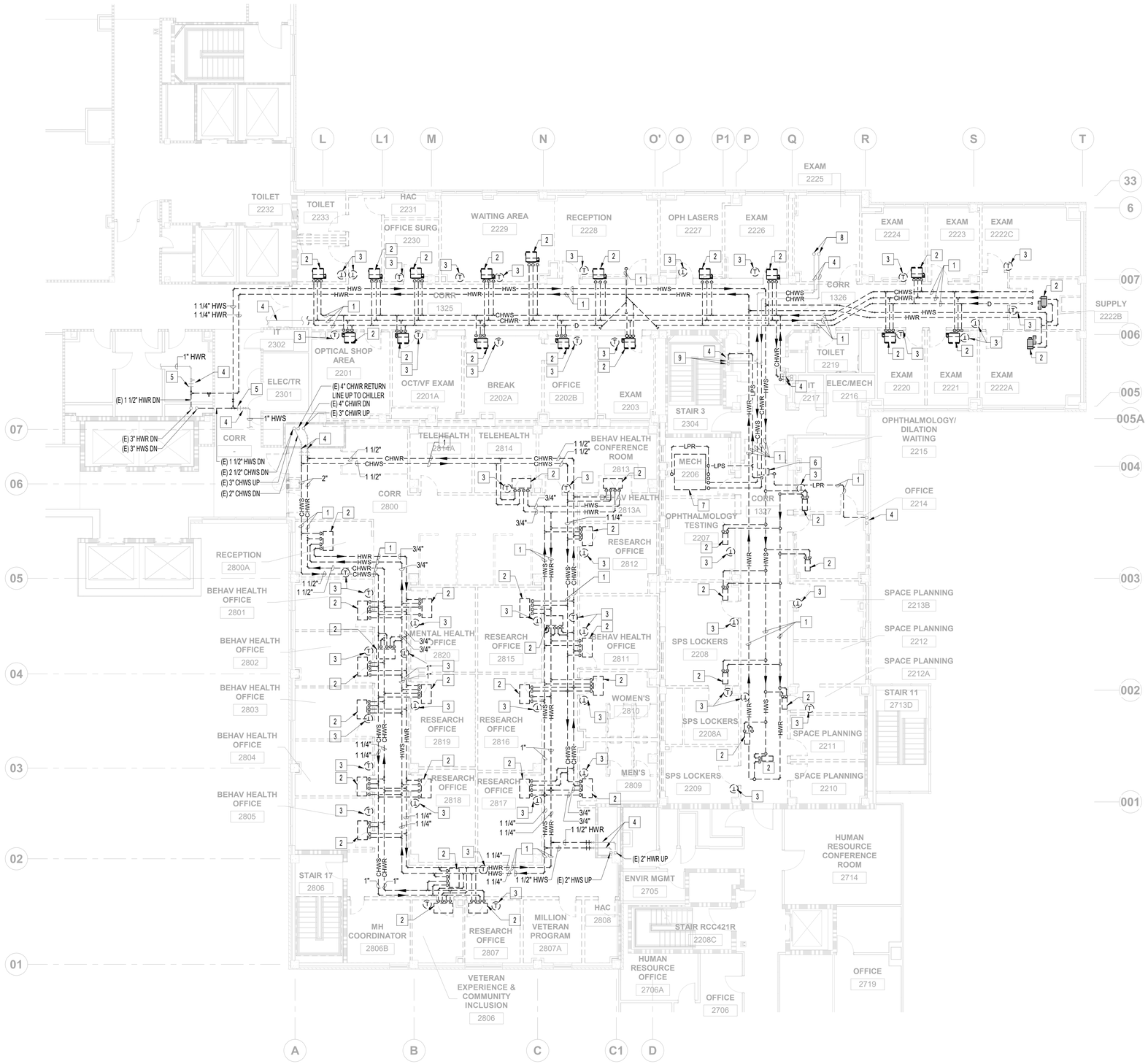
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - VENTILATION DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
Approved: Project Director		Location: BIRMINGHAM VAMC	Building Number: #1
		Issue Date: 05/15/2026 / Checked: RH / Drawn: RR	Drawing Number: MVD102

VA FORM 08-6231



GENERAL NOTES

A. PRIOR TO BEGINNING DEMOLITION, MEASURE AND RECORD THE HEATING HOT WATER AND CHILLED WATER SUPPLY AND RETURN PIPE SIZES, PRESSURE DROP, AND WATER FLOW RATE FOR THE EXISTING FAN COIL UNITS, REHEAT UNITS, VAV BOX, AIR HANDLING UNITS AND ANY NOT MENTIONED CONNECTED EQUIPMENT. PROVIDE DATA AS PART OF PRE-CONSTRUCTION TAB REPORT TO THE VA COR AND A/E.

B. COORDINATE ALL SERVICE OUTAGES WITH VA COR A MINIMUM OF 21 CALENDAR DAYS PRIOR TO COMMENCING WORK.

C. ALL ABANDONED OPENINGS TO BE CLOSED, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.

D. REMOVE ALL CLAMPS, HANGERS, SUPPORTS, ETC. ASSOCIATED WITH PIPING REMOVAL.

E. PIPING MAY BE SHOWN OFFSET FROM ITS ACTUAL LOCATION FOR CLARITY. FIELD VERIFY EXACT LOCATION.

F. REMOVE ALL CONDENSATE DRAIN PIPING FROM EXISTING FAN COILS AND CAP PIPING AT ENTRY TO SEWER SYSTEM.

G. THE CONDENSATE FROM FAN COIL UNITS FROM UPPER FLOORS DRAIN TO THIS FLOOR. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY CONDENSATE DRAIN PIPING CONNECTED TO THE UPPER FLOORS REMAINS ACTIVE DURING CONSTRUCTION WHETHER OR NOT IT IS SHOWN ON THIS DRAWING.

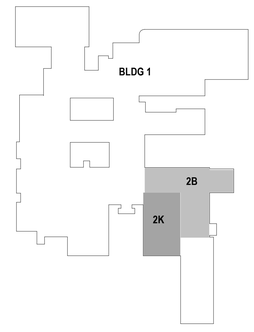
H. PIPING AND EQUIPMENT SHOWN ON THIS DRAWING ARE BASED ON AS-BUILT DOCUMENTATION AND A SITE REVIEW OF EXISTING CONDITIONS. IF IT IS DISCOVERED THAT ANY PIPING OR EQUIPMENT THAT IS INDICATED TO BE DEMOLISHED SERVES OTHER AREAS BEYOND THIS PROJECT SCOPE, THE CONTRACTOR MUST IMMEDIATELY STOP DEMOLITION OF SAID PIPING OR EQUIPMENT, NOTIFY THE COR AND ENGINEER, AND WAIT FOR FURTHER INSTRUCTIONS.

[X] MECHANICAL DEMOLITION KEY NOTES

1. REMOVE ALL PIPING, HANGERS, SUPPORTS, INSULATION, ETC. SHOWN DASHED.
2. REMOVE EXISTING FAN COIL UNITS, VAVS, REHEAT COILS, AND ASSOCIATED CHILLED AND HEATING HOT WATER PIPING, CONDENSATE DRAIN PIPING, VALVES, CONTROLS, ETC. (TYPICAL FOR ALL FAN COILS, REHEAT COILS, AND VAV BOXES.
3. REMOVE EXISTING THERMOSTAT INCLUDING ALL ASSOCIATED CONDUIT, WIRING, PNEUMATIC TUBING, ETC. LOCATED ABOVE ANY ACCESSIBLE CEILING BETWEEN THERMOSTAT AND THE UNIT IT CONTROLS. PROVIDE BLANK COVER PLATE OVER ALL ABANDONED JUNCTION BOXES IN WALLS THAT ARE TO REMAIN.
4. EXISTING PIPING TO REMAIN, PROTECT DURING CONSTRUCTION.
5. DEMOLISH EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING UP TO EXISTING SHUTOFF VALVE AND PREPARE TO RECONNECT EXISTING TO REMAIN EQUIPMENT TO NEW MAIN PIPES.
6. REMOVE HUMIDIFICATION UNIT AND ASSOCIATED PIPING, CONDENSATE DRAIN PIPING, VALVES, CONTROLS, SUPPORT (MOUNTING) STRUCTURE, PUMP UNIT, ETC.
7. EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED PIPING, VALVES, CONTROLS, SUPPORTS, INSULATION, CONDENSATE HANDLING, CONCRETE PAD, AND ETC. TO BE REMOVED.
8. EXISTING 2-1/2" CHWS & CHWR UP TO NINTH FLOOR TO REMAIN. PROTECT DURING CONSTRUCTION.
9. EXISTING 3" CHWS & CHWR DOWN TO BASEMENT FLOOR TO REMAIN. PROTECT DURING CONSTRUCTION.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

N

1 PIPING DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

Bancroft

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Bancroft Project No. 23-135

STAMP

LICENSED PROFESSIONAL ENGINEER
RAED HAMD
062.065048
ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - PIPING DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

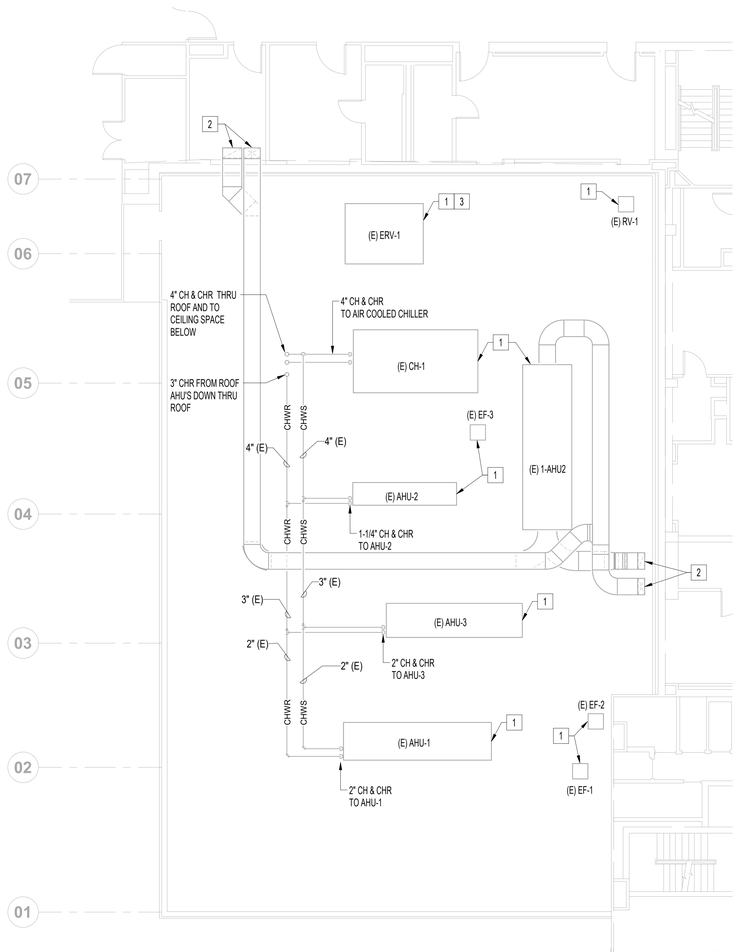
Issue Date: 05/15/2026

Checked: RH

Drawn: RR

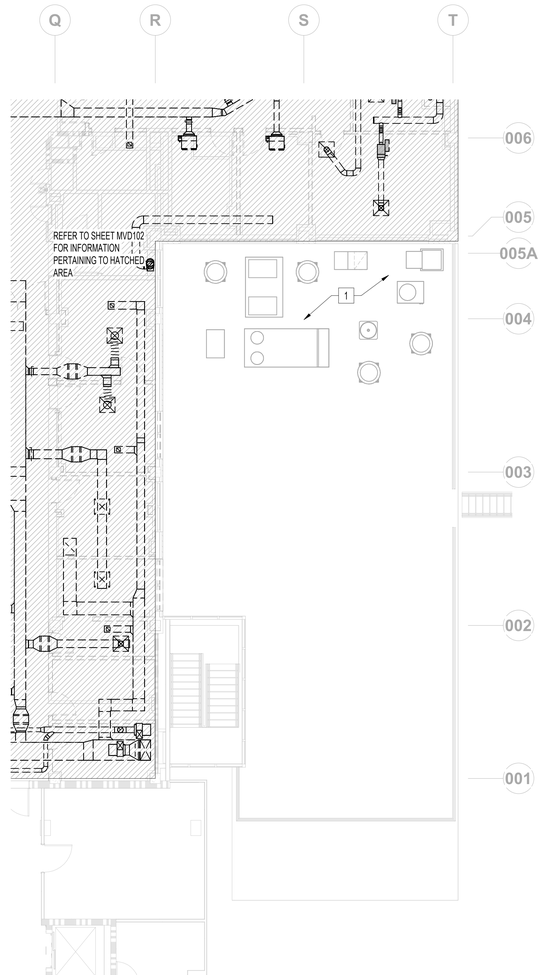
Drawing Number: MPD102

VA FORM 08-6231



N 1 **DEMOLITION PLAN - PARTIAL ROOF PLAN - 4K AREA**

1/8" = 1'-0"



N 2 **DEMOLITION PLAN - PARTIAL ROOF PLAN - 1B AREA**

1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. ON REUSED OR EXISTING DUCTWORK.

B. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE (TAB) AT ALL HVAC SYSTEMS BEING MODIFIED AND NOT COMPLETELY REMOVED. SUBMIT TAB REPORT TO VA COR PRIOR TO COMMENCING WORK.

C. DEMOLISH AND REMOVE ALL EQUIPMENT AND DUCTWORK SHOWN DASHED UNLESS OTHERWISE INDICATED.

D. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS. CONTRACTOR SHALL NOTIFY THE VA COR OF THE INTENTION TO CLOSE OR SEAL ANY DUCTWORK PRIOR TO COMMENCING WORK TO AVOID DAMAGING OR STRAINING EQUIPMENT MOTORS.

E. COORDINATE ALL SERVICE OUTAGES WITH VA COR A MINIMUM OF 21 CALENDAR DAYS PRIOR TO COMMENCING WORK.

F. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

[X] MECHANICAL DEMOLITION KEY NOTES

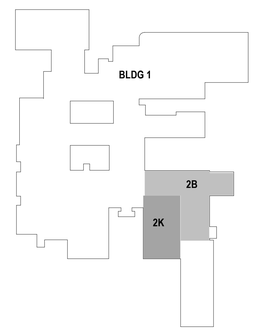
1. EXISTING EQUIPMENT TO REMAIN. PROTECT DURING CONSTRUCTION.
2. EXISTING SUPPLY AND RETURN DUCTWORK DOWN TO SERVE ONCOLOGY SUITE ON FIRST FLOOR. PROTECT DURING CONSTRUCTION. SEE SHEETS MVD102 AND M202 FOR CONTINUATION.
3. REBALANCE EXISTING 100% OA UNIT (ERV-1) TO PROVIDE PRE-CONSTRUCTION AIRFLOWS TO OTHER FLOORS AFTER SECOND FLOOR HAS BEEN DISCONNECTED FROM THE SYSTEM.

FIRE BARRIER LEGEND

2 HOUR FIRE -RATED BARRIER

1 HOUR FIRE -RATED BARRIER

COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

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Bancroft Project No. 23-135

STAMP

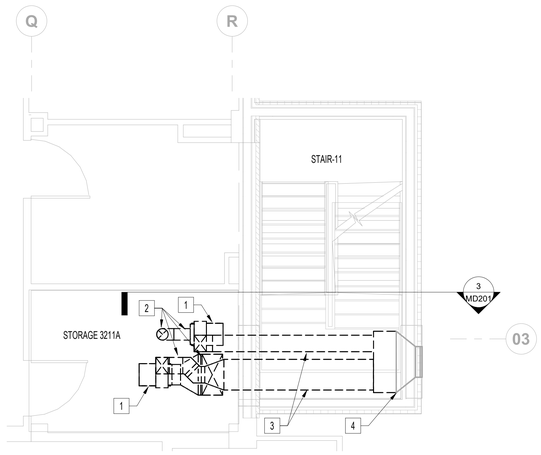
REGISTERED PROFESSIONAL ENGINEER RAED HAMID 062.065048 05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

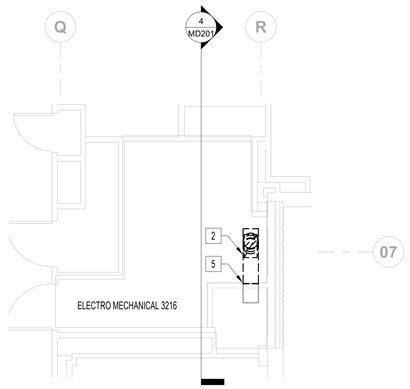
Drawing Title	MECHANICAL - DEMOLITION PLAN - PARTIAL ROOF PLAN - 4K, 1B AREAS
Approved: Project Director	
Phase	ISSUED FOR BID
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Project Number	521-24-102
Building Number	#1
Location	BIRMINGHAM VAMC
Drawing Number	MD103
Issue Date	05/15/2026
Checked	RH
Drawn	RR

VA FORM 08-6231



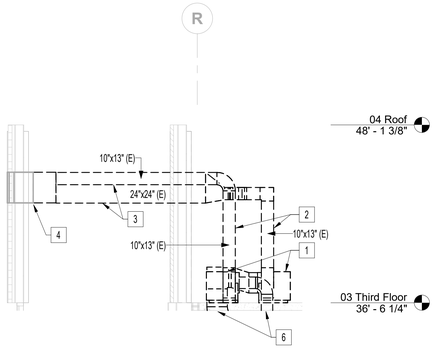
1 ENLARGED VENTILATION DEMOLITION PLAN - ROOM 3211

1/4" = 1'-0"



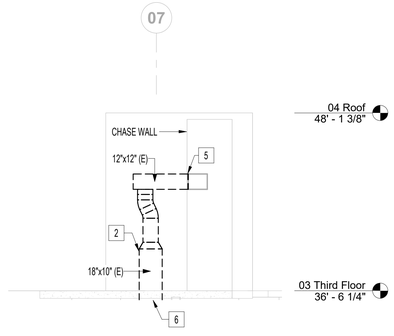
2 ENLARGED VENTILATION DEMOLITION PLAN - ELECTRICAL ROOM 3216

1/4" = 1'-0"



3 DUCTWORK RISER DEMOLITION -ROOM 3211

1/4" = 1'-0"



4 DUCTWORK RISER DEMOLITION - ELECTRICAL ROOM 3216

1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION, SEALING, LABELING, FIRESTOPPING, ETC. ON REUSED OR EXISTING DUCTWORK.

B. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE (TAB) AT ALL HVAC SYSTEMS BEING MODIFIED AND NOT COMPLETELY REMOVED. SUBMIT TAB REPORT TO VA COR PRIOR TO COMMENCING WORK.

C. DEMOLISH AND REMOVE ALL EQUIPMENT AND DUCTWORK SHOWN DASHED UNLESS OTHERWISE INDICATED.

D. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS. CONTRACTOR SHALL NOTIFY THE VA COR OF THE INTENTION TO CLOSE OR SEAL ANY DUCTWORK PRIOR TO COMMENCING WORK TO AVOID DAMAGING OR STRAINING EQUIPMENT MOTORS.

E. COORDINATE ALL SERVICE OUTAGES WITH VA COR A MINIMUM OF 21 CALENDAR DAYS PRIOR TO COMMENCING WORK.

F. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

[X] MECHANICAL DEMOLITION KEY NOTES

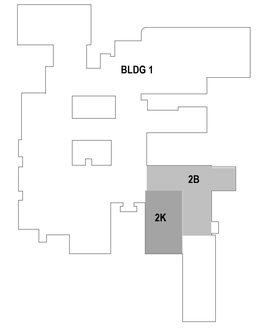
1. DEMOLISH AND REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED COMPONENTS INCLUDING CONTROLS, CONCRETE PAD, MOUNTING EQUIPMENT, POWER, ETC.
2. DEMOLISH EXISTING DUCTWORK SHOWN DASHED. PATCH AND SEAL ALL ABANDONED WALL AND FLOOR OPENINGS TO MATCH EXISTING SURROUNDINGS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS.
3. DEMOLISH EXISTING DUCTWORK WITHIN BULKHEAD IN STAIRWELL 11.
4. PROVIDE BLANK OFF PLATE ON INTERIOR SIDE OF EXISTING LOUVER TO SEAL LOUVER OPENING AND PREVENT AIR TRANSFER WITHOUT MODIFICATIONS TO THE EXISTING BUILDING FACADE.
5. DEMOLISH DUCTWORK BACK TO CHASE WALL. PROVIDE BLANK OFF PLATE AT THE CHASE WALL TO CAP AND SEAL THE DUCTWORK.
6. REFER TO SHEET MVD102 FOR DUCTWORK CONTINUATION.

FIRE BARRIER LEGEND

2 HOUR FIRE -RATED BARRIER

1 HOUR FIRE -RATED BARRIER

COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

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Bancroft Project No. 23-135

STAMP

LICENSED PROFESSIONAL ENGINEER RAED HAMID 062.060548 OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - ENLARGED PLANS - PARTIAL THIRD FLOOR DEMOLITION

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

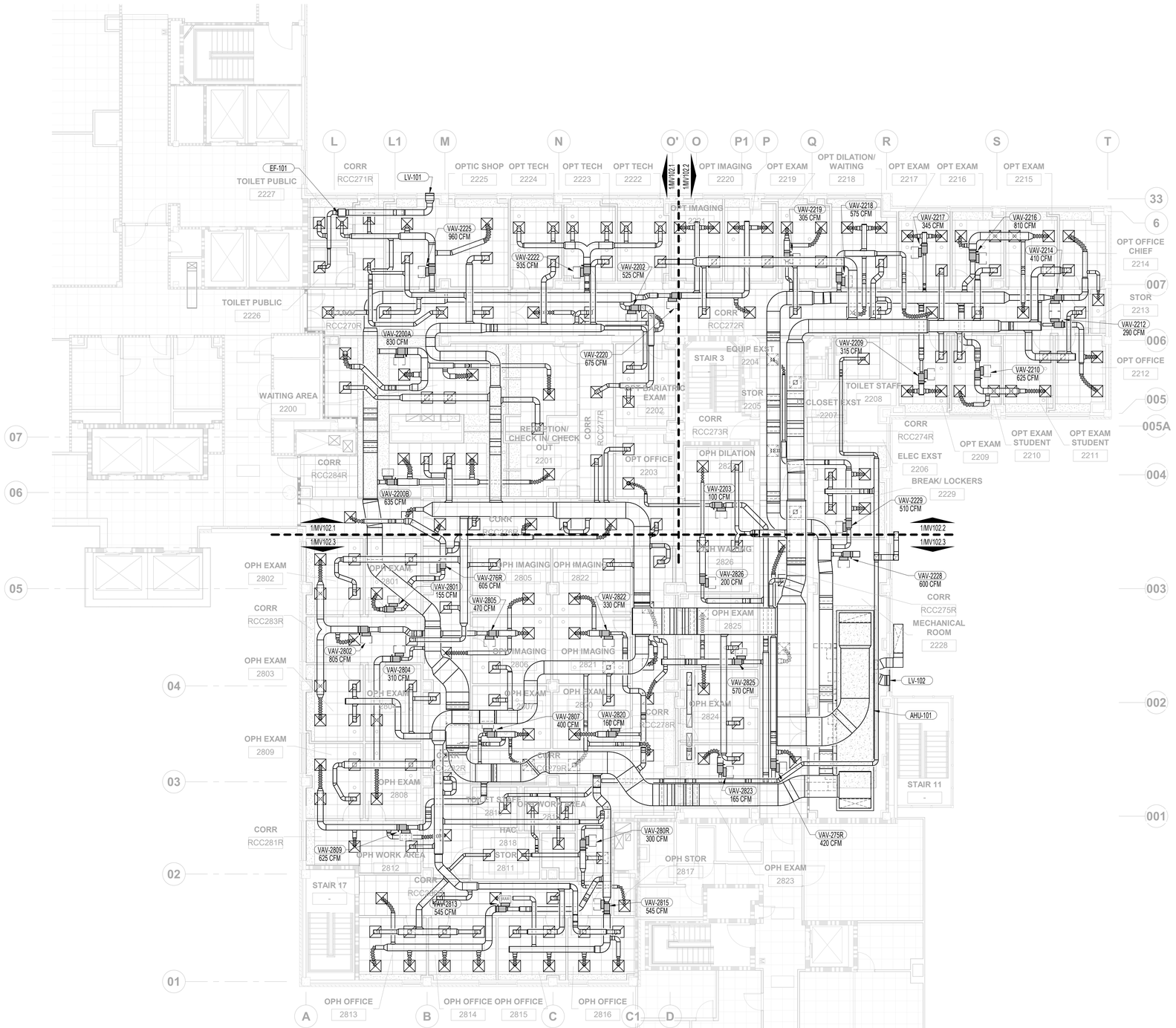
Checked: RH

Drawn: RR

Drawing Number: MD201

Approved: Project Director

VA FORM 08-6231



GENERAL NOTES

A. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.

B. CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.

C. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE (TAB) AT ALL HVAC SYSTEMS BEING MODIFIED AND NOT COMPLETELY REMOVED. SUBMIT TAB REPORT TO VA COR PRIOR TO COMMENCING WORK.

D. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS. CONTRACTOR SHALL NOTIFY THE VA COR OF THE INTENTION TO CLOSE OR SEAL ANY DUCTWORK PRIOR TO COMMENCING WORK TO AVOID DAMAGING OR STRAINING EQUIPMENT MOTORS.

E. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

F. PROVIDE BALANCING DAMPERS AT ALL BRANCH DUCTWORK SERVING A DIFFUSER AND/OR GRILLE. WHERE DUCTWORK IS LOCATED ABOVE INACCESSIBLE CEILING OR ACCESS IS BLOCKED BY OTHER DUCTWORK OR DEVICES, CONTRACTOR SHALL PROVIDE FOR ALTERNATIVE MEANS OF ACTUATING THE BALANCING DAMPER FROM BELOW.

G. COORDINATE CEILING MOUNTED DIFFUSERS AND GRILLES WITH SPRINKLER HEADS, LIGHTING FIXTURES, AND ALL OTHER CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL CEILING PLANS FOR COORDINATION.

H. CEILING ACCESS SHALL BE PROVIDED FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, OR CALIBRATION.

I. COORDINATE DUCTWORK ELEVATIONS WITH EXISTING FIELD CONDITIONS AND BEAMS. VARIOUS ADJUSTMENTS HAVE BEEN MADE IN THESE DRAWINGS TO ACCOUNT FOR KNOWN STRUCTURAL INTERFERENCE POINTS.

J. COORDINATE ALL SERVICE OUTAGES WITH VA COR AND PROVIDE A MINIMUM OF 21 CALENDAR DAYS NOTICE PRIOR TO COMMENCING WORK.

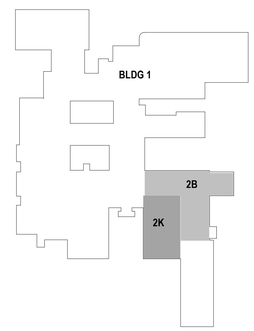
K. CONTRACTOR SHALL COORDINATE ALL ABOVE CEILING WORK WITH ALL OTHER ACTIVE CONSTRUCTION PROJECTS IN THE AREA. CONTRACTOR SHALL WORK WITH VA COR TO IDENTIFY ALL POTENTIAL CONFLICTS AND COMMON WORK AREAS.

OVERALL PLAN NOTES

1. SEE ENLARGED PLANS MV102.1, MV102.2, AND MV102.3 FOR SHEET SPECIFIC KEY NOTES.
2. THIS SHEET SERVES TO PROVIDE AN OVERALL VIEW OF THE DUCTWORK LAYOUT AND MAJOR EQUIPMENT LOCATIONS. REFER TO FOLLOWING ENLARGED SHEET FOR DETAILING.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

N

1 VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

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65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

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Bancroft Project No. 23-135

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REGISTERED PROFESSIONAL ENGINEER RAED HAMD 082.065548 ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: RH

Drawn: RR

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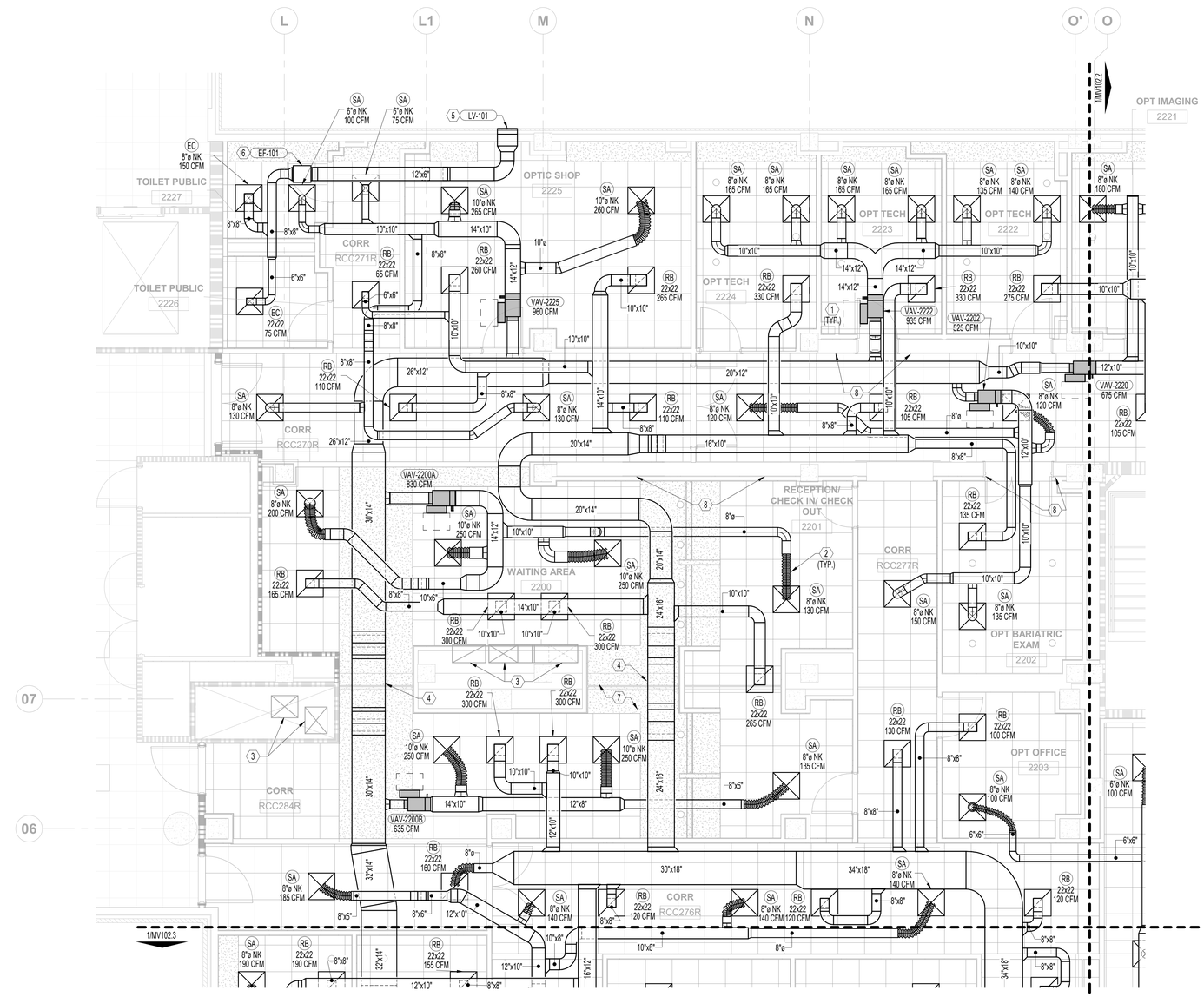

VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1

1/4" = 1'-0"

GENERAL NOTES

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G. COORDINATE CEILING MOUNTED DIFFUSERS AND GRILLES WITH SPRINKLER HEADS, LIGHTING FIXTURES, AND ALL OTHER CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL CEILING PLANS FOR COORDINATION.

H. CEILING ACCESS SHALL BE PROVIDED FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, OR CALIBRATION.

I. COORDINATE DUCTWORK ELEVATIONS WITH EXISTING FIELD CONDITIONS AND BEAMS. VARIOUS ADJUSTMENTS HAVE BEEN MADE IN THESE DRAWINGS TO ACCOUNT FOR KNOWN STRUCTURAL INTERFERENCE POINTS.

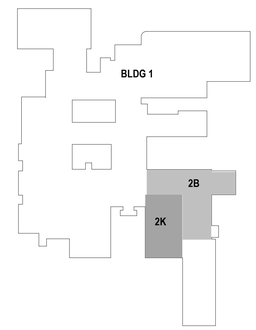
J. COORDINATE ALL SERVICE OUTAGES WITH VA COR AND PROVIDE A MINIMUM OF 21 CALENDAR DAYS NOTICE PRIOR TO COMMENCING WORK.

K. CONTRACTOR SHALL COORDINATE ALL ABOVE CEILING WORK WITH ALL OTHER ACTIVE CONSTRUCTION PROJECTS IN THE AREA. CONTRACTOR SHALL WORK WITH VA COR TO IDENTIFY ALL POTENTIAL CONFLICTS AND COMMON WORK AREAS.

1. FURNISH AND INSTALL VARIABLE VOLUME AIR BOX(ES) PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. (TYP. OF ALL).
2. FLEXIBLE DUCTWORK SHALL BE INSTALLED ACCORDING TO INSTRUCTIONS ON DETAILS SHEETS. IT IS PROHIBITED TO INSTALL FELX DUCTWORK ABOVE HARD CEILINGS. (TYP. OF ALL).
3. EXISTING DUCTWORK TO REMAIN. PROTECT DURING CONSTRUCTION.
4. DUCTWORK ELEVATION LOWERED IN COORDINATION WITH CEILING ELEVATION TO ALLOW DUCTWORK TO PASS BELOW LOW STRUCTURAL BEAM.
5. INSTALL LOUVER IN EXTERIOR FACADE OF BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. MAKE FULL SIZE PLENUM CONNECTION WITH DUCTWORK ON BACK SIDE OF LOUVER.
6. INSTALL INLINE EXHAUST FAN ABOVE CEILING. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF EQUIPMENT TO ENSURE ADEQUATE ACCESS FOR SERVICE AND MAINTENANCE.
7. HATCHED PATERN INDICATED HARD CEILING. INSTALLATION OF ITEMS REQUIRING ACCESS HERE IS PROHIBITED WITHOUT PROVIDING A MEANS FOR ACCESS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. STRUCTURAL SHEAR WALL CAN BE IDENTIFIED BY THE THICK WALL SECTIONS SHOWN ON THESE DRAWINGS. PENETRATIONS THROUGH THE SHEAR WALLS ARE TO BE LIMITED. WHERE NECESSARY, ATTEMPTS HAVE BEEN MADE TO LOCATE THE PENETRATIONS ABOVE DOOR OPENINGS TO REDUCE THE AMOUNT OF REBAR TO BE CUT AND THE STRUCTURAL IMPACT.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

Bancroft

BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO.36C24724C0036

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Bancroft Project No. 23-135

STAMP

REGISTERED PROFESSIONAL ENGINEER
RAED HAMD
062-065548
OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 1

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

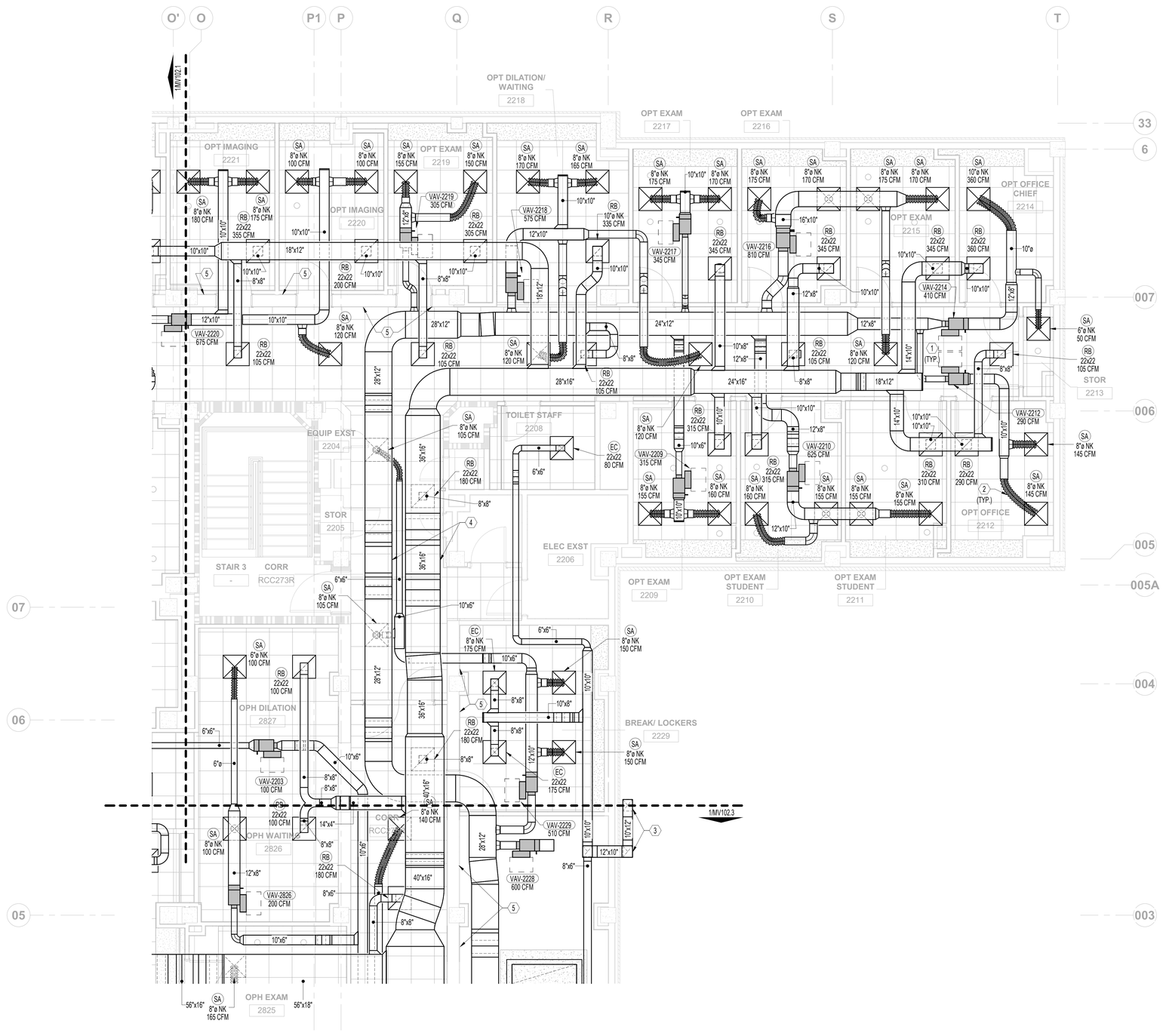
Issue Date: 05/15/2026

Checked: RH

Drawn: RR

Drawing Number: MV102.1

VA FORM 08-6231



VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2

1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.

B. CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.

C. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE (TAB) AT ALL HVAC SYSTEMS BEING MODIFIED AND NOT COMPLETELY REMOVED. SUBMIT TAB REPORT TO VA COR PRIOR TO COMMENCING WORK.

D. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS. CONTRACTOR SHALL NOTIFY THE VA COR OF THE INTENTION TO CLOSE OR SEAL ANY DUCTWORK PRIOR TO COMMENCING WORK TO AVOID DAMAGING OR STRAINING EQUIPMENT MOTORS.

E. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

F. PROVIDE BALANCING DAMPERS AT ALL BRANCH DUCTWORK SERVING A DIFFUSER AND/OR GRILLE. WHERE DUCTWORK IS LOCATED ABOVE INACCESSIBLE CEILING OR ACCESS IS BLOCKED BY OTHER DUCTWORK OR DEVICES, CONTRACTOR SHALL PROVIDE FOR ALTERNATIVE MEANS OF ACTUATING THE BALANCING DAMPER FROM BELOW.

G. COORDINATE CEILING MOUNTED DIFFUSERS AND GRILLES WITH SPRINKLER HEADS, LIGHTING FIXTURES, AND ALL OTHER CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL CEILING PLANS FOR COORDINATION.

H. CEILING ACCESS SHALL BE PROVIDED FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, OR CALIBRATION.

I. COORDINATE DUCTWORK ELEVATIONS WITH EXISTING FIELD CONDITIONS AND BEAMS. VARIOUS ADJUSTMENTS HAVE BEEN MADE IN THESE DRAWINGS TO ACCOUNT FOR KNOWN STRUCTURAL INTERFERENCE POINTS.

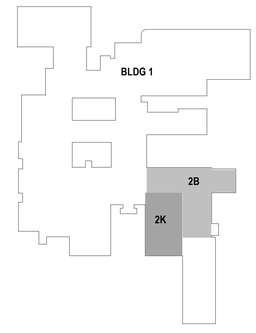
J. COORDINATE ALL SERVICE OUTAGES WITH VA COR AND PROVIDE A MINIMUM OF 21 CALENDAR DAYS NOTICE PRIOR TO COMMENCING WORK.

K. CONTRACTOR SHALL COORDINATE ALL ABOVE CEILING WORK WITH ALL OTHER ACTIVE CONSTRUCTION PROJECTS IN THE AREA. CONTRACTOR SHALL WORK WITH VA COR TO IDENTIFY ALL POTENTIAL CONFLICTS AND COMMON WORK AREAS.

1. FURNISH AND INSTALL VARIABLE VOLUME AIR BOX(ES) PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. (TYP. OF ALL).
2. FLEXIBLE DUCTWORK SHALL BE INSTALLED ACCORDING TO INSTRUCTIONS ON DETAILS SHEETS. IT IS PROHIBITED TO INSTALL FELX DUCTWORK ABOVE HARD CEILINGS. (TYP. OF ALL).
3. EXHAUST DUCTWORK ROUTED DOWN TO EXHAUST FAN ON ROOF BELOW ALONG EXTERIOR OF BUILDING. REFER TO SHEET M103 FOR CONTINUATION.
4. DUCTWORK ELEVATION LOWERED IN COORDINATION WITH CEILING ELEVATION TO ALLOW DUCTWORK TO PASS BELOW LOW STRUCTURAL BEAM.
5. STRUCTURAL SHEAR WALL CAN BE IDENTIFIED BY THE THICK WALL SECTIONS SHOWN ON THESE DRAWINGS. PENETRATIONS THROUGH THE SHEAR WALLS ARE TO BE LIMITED. WHERE NECESSARY, ATTEMPTS HAVE BEEN MADE TO LOCATE THE PENETRATIONS ABOVE DOOR OPENINGS TO REDUCE THE AMOUNT OF REBAR TO BE CUT AND THE STRUCTURAL IMPACT.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

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Bancroft Project No. 23-135

STAMP

RAED HAMID 062.055548 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 2

Phase: ISSUED FOR BID

Approved: Project Director

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

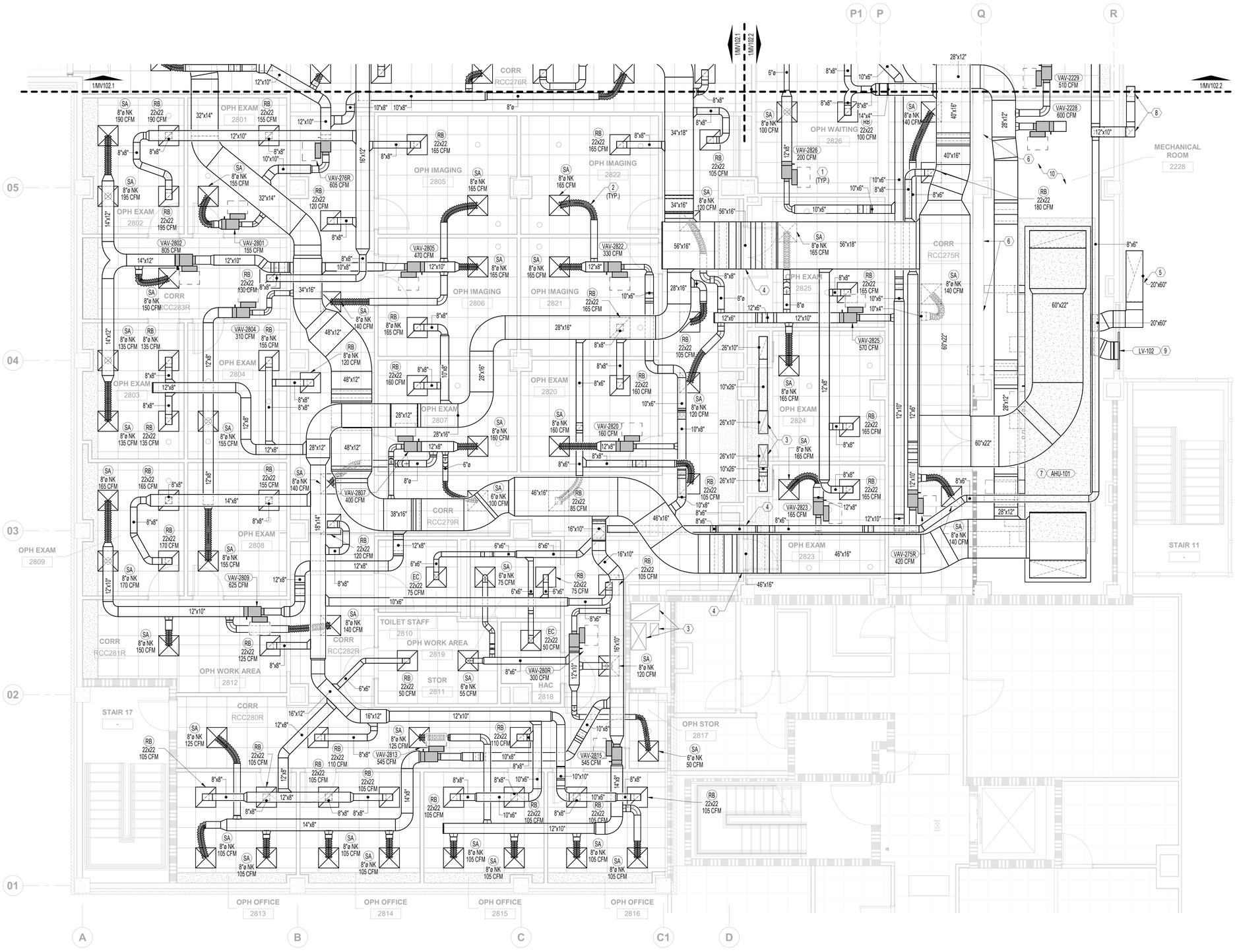
Drawing Number: MV102.2

Issue Date: 05/15/2026

Checked: RH

Drawn: RR

VA FORM 08-6231



GENERAL NOTES

A. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.

B. CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.

C. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE (TAB) AT ALL HVAC SYSTEMS BEING MODIFIED AND NOT COMPLETELY REMOVED. SUBMIT TAB REPORT TO VA COR PRIOR TO COMMENCING WORK.

D. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS. CONTRACTOR SHALL NOTIFY THE VA COR OF THE INTENTION TO CLOSE OR SEAL ANY DUCTWORK PRIOR TO COMMENCING WORK TO AVOID DAMAGING OR STRAINING EQUIPMENT MOTORS.

E. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

F. PROVIDE BALANCING DAMPERS AT ALL BRANCH DUCTWORK SERVING A DIFFUSER AND/OR GRILLE. WHERE DUCTWORK IS LOCATED ABOVE INACCESSIBLE CEILING OR ACCESS IS BLOCKED BY OTHER DUCTWORK OR DEVICES, CONTRACTOR SHALL PROVIDE FOR ALTERNATIVE MEANS OF ACTUATING THE BALANCING DAMPER FROM BELOW.

G. COORDINATE CEILING MOUNTED DIFFUSERS AND GRILLES WITH SPRINKLER HEADS, LIGHTING FIXTURES, AND ALL OTHER CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL CEILING PLANS FOR COORDINATION.

H. CEILING ACCESS SHALL BE PROVIDED FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, OR CALIBRATION.

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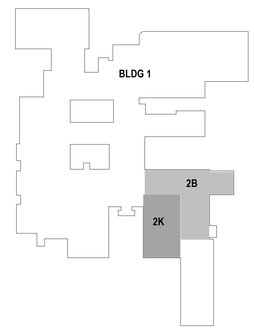
J. COORDINATE ALL SERVICE OUTAGES WITH VA COR AND PROVIDE A MINIMUM OF 21 CALENDAR DAYS NOTICE PRIOR TO COMMENCING WORK.

K. CONTRACTOR SHALL COORDINATE ALL ABOVE CEILING WORK WITH ALL OTHER ACTIVE CONSTRUCTION PROJECTS IN THE AREA. CONTRACTOR SHALL WORK WITH VA COR TO IDENTIFY ALL POTENTIAL CONFLICTS AND COMMON WORK AREAS.

1. FURNISH AND INSTALL VARIABLE VOLUME AIR BOX(ES) PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. (TYP. OF ALL).
2. FLEXIBLE DUCTWORK SHALL BE INSTALLED ACCORDING TO INSTRUCTIONS ON DETAILS SHEETS. IT IS PROHIBITED TO INSTALL FELX DUCTWORK ABOVE HARD CEILINGS. (TYP. OF ALL).
3. EXISTING DUCTWORK TO REMAIN. PROTECT DURING CONSTRUCTION.
4. DUCTWORK ELEVATION LOWERED IN COORDINATION WITH CEILING ELEVATION TO ALLOW DUCTWORK TO PASS BELOW LOW STRUCTURAL BEAM.
5. AHU RELIEF AIR DUCTWORK ROUTED DOWN EXTERIOR FACE OF BUILDING. TERMINATE ON ROOF BELOW WITH BIRD AND INSECT SCREEN IN DUCTWORK. INSTALL DUCTWORK IN SUCH A WAY TO PREVENT INTRUSION OF RAIN WATER. AVOID BLOCKING EXISTING WINDOW OPENINGS WITH DUCTWORK. REFER TO SHEET M103 FOR CONTINUATION.
6. STRUCTURAL SHEAR WALL CAN BE IDENTIFIED BY THE THICK WALL SECTIONS SHOWN ON THESE DRAWINGS. PENETRATIONS THROUGH THE SHEAR WALLS ARE TO BE LIMITED. WHERE NECESSARY, ATTEMPTS HAVE BEEN MADE TO LOCATE THE PENETRATIONS ABOVE DOOR OPENINGS TO REDUCE THE AMOUNT OF REBAR TO BE CUT AND THE STRUCTURAL IMPACT.
7. INSTALL NEW AIR HANDLING UNIT (AHU) ON 6 INCH CONCRETE HOUSEKEEPING PAD.
8. EXHAUST DUCTWORK ROUTED DOWN TO EXHAUST FAN ON ROOF BELOW ALONG EXTERIOR OF BUILDING. REFER TO SHEET M103 FOR CONTINUATION.
9. INSTALL LOUVER IN EXTERIOR FACADE OF BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. MAKE FULL SIZE PLENUM CONNECTION WITH DUCTWORK ON BACK SIDE OF LOUVER.
10. REFER TO ENLARGED MECHANICAL ROOM PLAN FOR ADDITIONAL DETAILS.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

N

1 VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3

1/4" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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Bancroft Project No. 23-135

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LICENSED PROFESSIONAL ENGINEER
RAED HAMD
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05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - VENTILATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS - ZONE 3

Phase: ISSUED FOR BID

Approved: Project Director

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

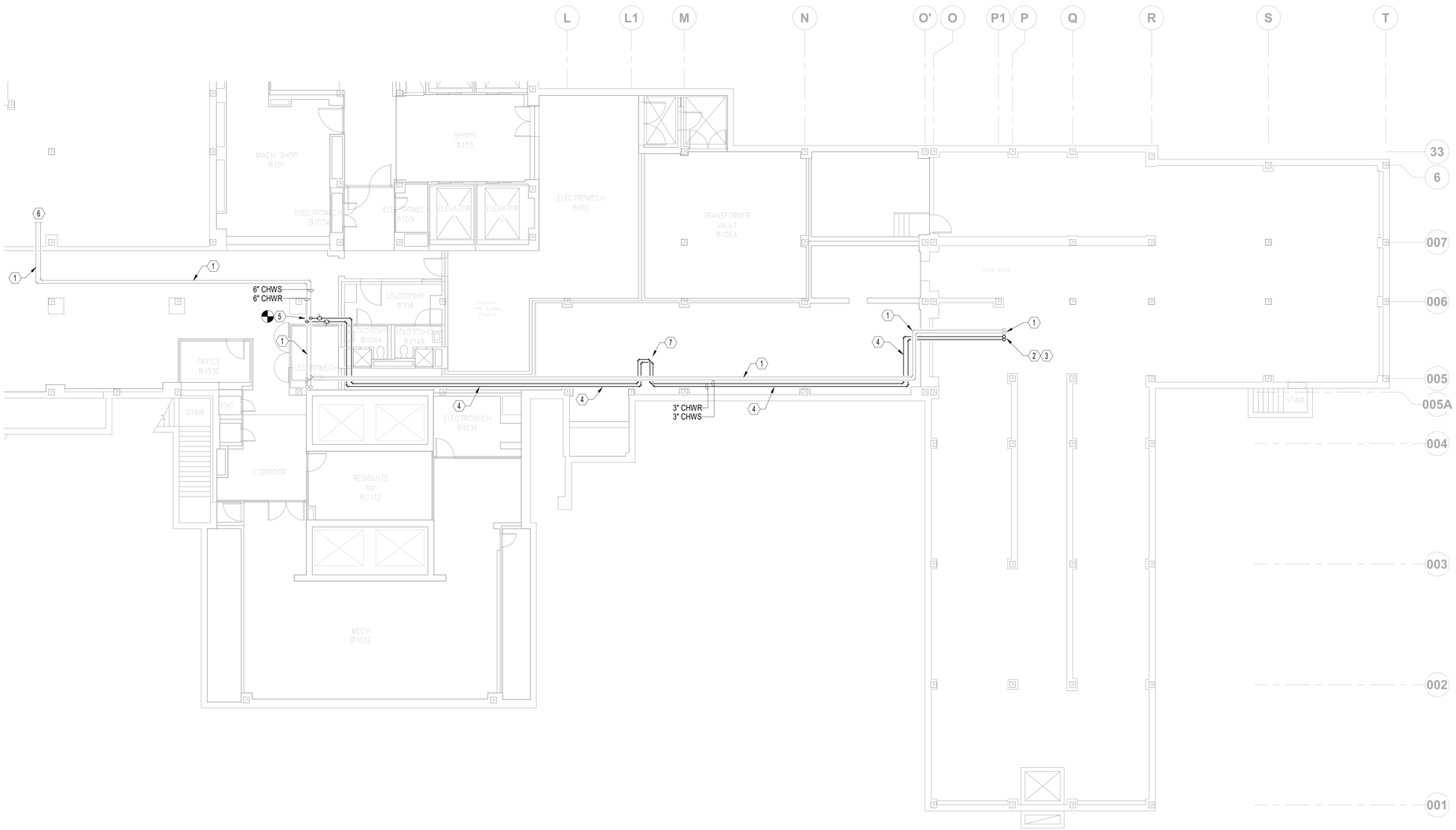
Issue Date: 05/15/2026

Checked: RH

Drawn: RR

Drawing Number: MV102.3

VA FORM 08-6231



GENERAL NOTES

A. FIRESTOP ALL PIPE PENETRATIONS OF FIRE RATED WALLS.

B. ROUTE HYDRONIC PIPING AS HIGH AS POSSIBLE ABOVE DUCTWORK.

C. CEILING ACCESS SHALL BE PROVIDED SUCH THAT EQUIPMENT SHALL BE READILY SERVICEABLE, FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION. SUCH EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, VAV BOXES, AIR VALVES, CONTROL VALVES, STRAINERS, BALANCING DAMPERS, ETC.

D. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

E. THE INTENTION OF THIS WORK IS TO PROVIDE A DEDICATED CHILLED WATER SUPPLY AND RETURN LINE CAPABLE OF BRINGING SUFFICIENT CHILLED WATER FROM THE BASEMENT LEVEL CHWS/R MAINS UP TO THE NEW AIR HANDLING UNIT ON THE SECOND FLOOR SERVING THIS PROJECT'S AREA. THE VA IS RESPONSIBLE FOR MODIFICATIONS TO THE OPERATIONAL SEQUENCE OF THE SECONDARY CHILLED WATER ZONE PUMPS LOCATED IN THE BASEMENT MECHANICAL SPACE THAT MAY BE REQUIRED TO ACHIEVE THE PROPER WATERFLOWS ON THE BRANCH. IT IS LIKELY THAT BOTH SECONDARY CHILLED WATER PUMPS 1-PCHZ-1 AND 1-PCHZ-2 WILL NEED TO RUN IN PARALLEL TO MEET DEMAND FLOW RATES.

F. COORDINATE ALL SERVICE OUTAGES WITH VA COR AND PROVIDE A MINIMUM OF 21 CALENDAR DAYS NOTICE PRIOR TO COMMENCING WORK.

G. CONTRACTOR SHALL COORDINATE ALL ABOVE CEILING WORK WITH ALL OTHER ACTIVE CONSTRUCTION PROJECTS IN THE AREA. CONTRACTOR SHALL WORK WITH VA COR TO IDENTIFY ALL POTENTIAL CONFLICTS AND COMMON WORK AREAS.

(X) MECHANICAL KEY NOTES

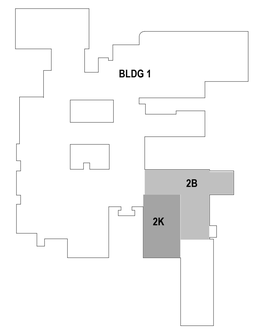
1. EXISTING PIPING TO REMAIN. PROTECT DURING CONSTRUCTION.
2. 3" CHILLED WATER SUPPLY AND RETURN PIPES ROUTED UP WITHIN EXISTING CHASE TO 2ND FLOOR. SEE SHEET MP102 FOR CONTINUATION.
3. CONTRACTOR TO ACCESS CHASE ON INTERMEDIEATE FLOORS TO PERFORM PIPING INSTALLATION WORK. THIS MAY REQUIRE PARTIAL DEMOLITION OF EXISTING WALLS. CONTRACTOR SHALL INCLUDE IN BASE BID THE COSTS ASSOCIATED WITH TEMPORARY WALL OPENING FOR INSTALLATION.
4. NEW 3" CHWS/R PIPES TO BE INSTALLED WITHIN CRAWLSPACE FOLLOWING SAME ROUTE AS EXISTING CHWS/R PIPING.
5. MAKE CONNECTION TO EXISTING 6" CHWS/R MAINS IN APPROXIMATELY THIS LOCATION. CONTRACTOR SHOULD ACCOUNT FOR CONGESTED CEILING CONDITIONS. COORDINATE ANY REQUIRED SERVICE OUTAGES WITH THE VA COR.
6. EXISTING 6" CHWS/R PIPING CONTINUED BACK TO SECONDARY CHILLED WATER PUMPS.
7. INSTALL HARD PIPE EXPANSION LOOP IN CHILLED WATER SUPPLY AND RETURN LINES WITHIN THE CRAWLSPACE TO ACOMMODATE FOR THERMAL EXPANSION. LOOP MINIMUM DIMENSIONS ARE 4FT BY 2FT. INSTALL MOMENT GUIDES AND ANCHORS IN ACCORDANCE WITH PIPING INSTALLATION REQUIREMENTS. SIZE ANCHOR LOADS FOR 600LBF MINIMUM.

FIRE BARRIER LEGEND

2 HOUR FIRE -RATED BARRIER

1 HOUR FIRE -RATED BARRIER

COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

N

1 MECHANICAL - PIPING PLAN - PARTIAL BASEMENT FLOOR

1/8" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
CHW MOD SUBMITTAL	05/07/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
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LICENSED PROFESSIONAL ENGINEER
RAED HAMID
062.060548
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - PIPING PLAN - PARTIAL BASEMENT FLOOR	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director		Location: BIRMINGHAM VAMC	Drawing Number: MP10B
		Issue Date: 05/15/2026 / Checked: RH / Drawn: RR	

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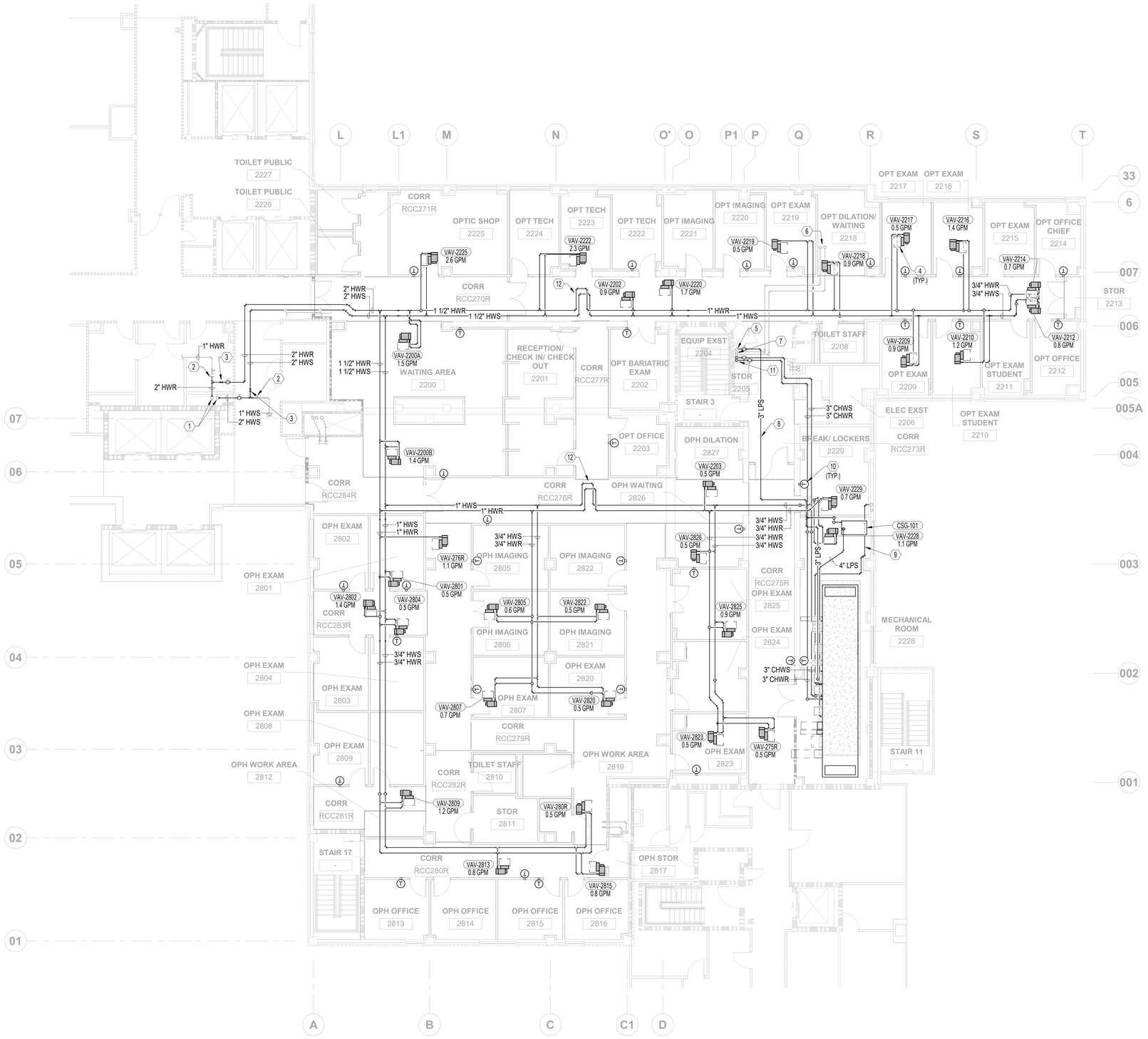


GENERAL NOTES

A. FIRESTOP ALL PIPE PENETRATIONS OF FIRE RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.

B. ROUTE HYDRONIC PIPING AS HIGH AS POSSIBLE ABOVE DUCTWORK.

C. CEILING ACCESS SHALL BE PROVIDED SUCH THAT EQUIPMENT SHALL BE READILY SERVICEABLE, FOR ALL HVAC EQUIPMENT AND COMPONENTS LOCATED ABOVE THE CEILING THAT REQUIRE OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION. SUCH EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, VAV BOXES, AIR VALVES, CONTROL VALVES, STRAINERS, BALANCING DAMPERS, ETC.

D. ALL BRANCH PIPING CONNECTING TO VAV BOXES AND OTHER EQUIPMENT SHALL BE 3/4" UNLESS NOTED OTHERWISE.

E. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

F. CONTRACTOR SHALL PROVIDE HOT WATER ISOLATION VALVES ON ALL BRANCH LINES SERVING VAV BOXES TO ALLOW UNIT ISOLATION DURING MAINTENANCE OR REPLACEMENT REFER TO VAV BOX PIPING DETAIL. ISOLATION VALVES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION AS DIRECTED BY THE COR AND VA MAINTENANCE PERSONNEL. THESE VALVES SHALL BE PROVIDED WHETHER SHOWN ON DRAWINGS OR NOT.

G. COORDINATE ALL SERVICE OUTAGES WITH VA COR AND PROVIDE A MINIMUM OF 21 CALENDAR DAYS NOTICE PRIOR TO COMMENCING WORK.

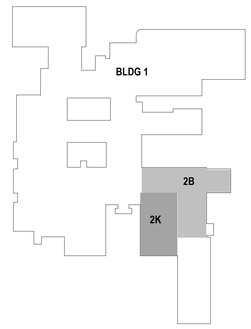
H. CONTRACTOR SHALL COORDINATE ALL ABOVE CEILING WORK WITH ALL OTHER ACTIVE CONSTRUCTION PROJECTS IN THE AREA. CONTRACTOR SHALL WORK WITH VA COR TO IDENTIFY ALL POTENTIAL CONFLICTS AND COMMON WORK AREAS.

(X) MECHANICAL KEY NOTES

1. MAKE NEW 2" CONNECTION TO EXISTING 3" HEATING HOT WATER SUPPLY AND RETURN RISERS.
2. RECONNECT EXISTING EQUIPMENT TO REMAIN TO THE NEW MAIN BRANCH PIPING. REBALANCE EXISTING EQUIPMENT TO PROVIDE PRE-CONSTRUCTION FLOW RATES.
3. INSTALL ISOLATION SHUTOFF VALVE ABOVE ACCESSABLE CEILING TO FACILITATE MAINTENANCE IN THE PROJECT SCOPE OF WORK AREA.
4. COORDINATE PIPING CONNECTION WITH EQUIPMENT SERVICE AND MAINTENANCE CLEARANCES. (TYPICAL OF ALL VAVS).
5. EXISTING 3" CHILLED WATER PIPING DOWN TO BASEMENT LEVEL. PROTECT DURING CONSTRUCTION.
6. EXISTING 2-1/2" CHILLED WATER PIPING UP OT NINTH FLOOR LEVEL. PROTECT DURING CONSTRUCTION.
7. MAKE 3" LPS CONNECTION TO EXISTING RISER.
8. ROUTE 3" LPS ABOVE CEILING TO SERVE NEW EQUIPMENT IN MECHANICAL ROOM 2228.
9. ROUTE 2" LPR ALONG FLOOR TO EXISTING RISER IN ROOM 2229. SLOPE PIPE ACCORDING TO REQUIREMENTS IN THE SPECIFICATIONS.
10. INSTALL WALL MOUNTED TEMPERATURE CONTROL THERMOSTAT. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS. (TYP. OF ALL).
11. CHILLED WATER SUPPLY AND RETURN PIPING DOWN INSIDE CHASE WITH NEW 3" PIPES TO TIE INTO EXISTING 6" CHWS/R MAINS ON THE BASEMENT LEVEL. SEE SHEET MP10B FOR CONTINUATION.
12. INSTALL HARD PIPE EXPANSION LOOP IN HEATING HOT WATER SUPPLY AND RETURN LINES TO ACOMMODATE FOR THERMAL EXPANSION. LOOP MINIMUM DIMENSIONS ARE 4FT BY 2FT. INSTALL MOMENT GUIDES AND ANCHORS IN ACCORDANCE WITH PIPING INSTALLATION REQUIREMENTS. SIZE ANCHOR LOADS FOR 300LBF MINIMUM.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

1 PIPING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
CHW MOD SUBMITTAL	05/07/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

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REGISTERED PROFESSIONAL ENGINEER RAED HAMD 062-080648 STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - PIPING PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Phase: ISSUED FOR BID

Approved: Project Director

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

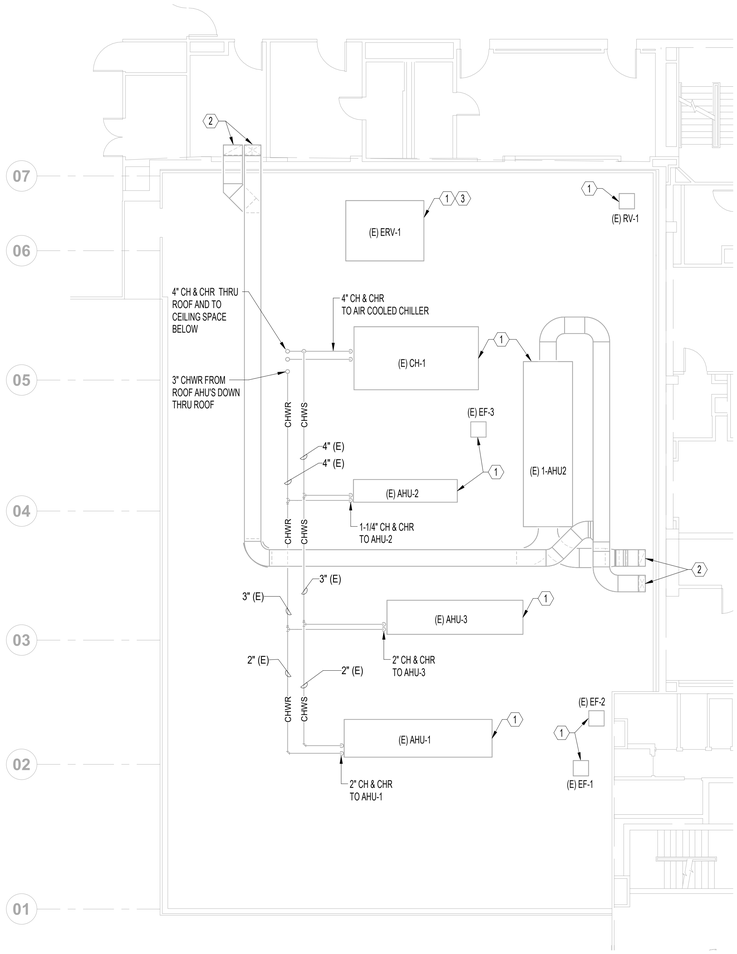
Issue Date: 05/15/2026

Checked: RH

Drawn: RR

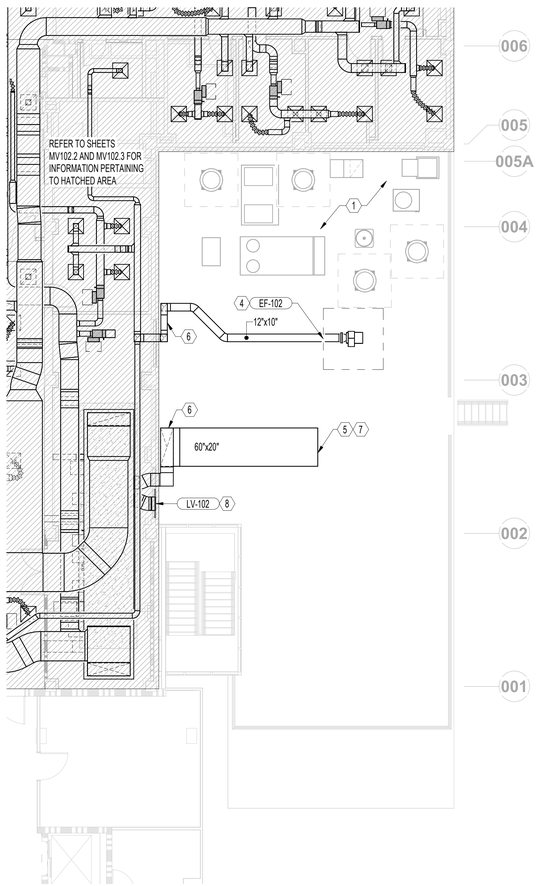
Drawing Number: MP102

VA FORM 08-6231



1 PARTIAL ROOF PLAN - 4K AREA

1/8" = 1'-0"



2 PARTIAL ROOF PLAN - 1B AREA

1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.

B. CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.

C. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE (TAB) AT ALL HVAC SYSTEMS BEING MODIFIED AND NOT COMPLETELY REMOVED. SUBMIT TAB REPORT TO VA COR PRIOR TO COMMENCING WORK.

D. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS.

E. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

F. COORDINATE DUCTWORK ELEVATIONS WITH EXISTING FIELD CONDITIONS AND BEAMS. VARIOUS ADJUSTMENTS HAVE BEEN MADE IN THESE DRAWINGS TO ACCOUNT FOR KNOWN STRUCTURAL INTERFERENCE POINTS.

G. COORDINATE ALL SERVICE OUTAGES WITH VA COR AND PROVIDE A MINIMUM OF 21 CALENDAR DAYS NOTICE PRIOR TO COMMENCING WORK.

H. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS WHEN PERFORMING ALTERATION WORK AND EQUIPMENT MOUNTING WORK ON THE ROOF.

I. ALL EQUIPMENT LOCATIONS SHALL BE COORDINATED WITH EXISTING FIELD CONDITIONS.

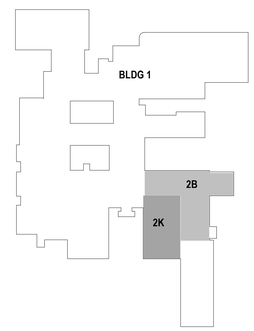
J. MAINTAIN A MINIMUM SEPARATION DISTANCE OF 25 FEET BETWEEN ANY FRESH AIR INTAKE AND ALL EXHAUST OUTLETS, AND NOXIOUS OR CONTAMINATED AIR SOURCES.

(X) MECHANICAL KEY NOTES

1. EXISTING EQUIPMENT TO REMAIN. PROTECT DURING CONSTRUCTION.
2. EXISTING SUPPLY AND RETURN DUCTWORK DOWN TO SERVE ONCOLOGY SUITE ON FIRST FLOOR. PROTECT DURING CONSTRUCTION. SEE SHEETS MVD102 AND M202 FOR CONTINUATION.
3. REBALANCE EXISTING ERV-1 TO PROVIDE PRE-CONSTRUCTION AIRFLOWS TO OTHER FLOORS AFTER SECOND FLOOR HAS BEEN DISCONNECTED FROM THE SYSTEM.
4. INSTALL EXHAUST FAN EF-102 ON RAILS ON FIRST FLOOR CANTEEN ROOF. COORDINATE EXACT FAN LOCATION WITH EXISTING CONDITIONS.
5. AHU RELIEF AIR DUCTWORK ROUTED DOWN EXTERIOR FACE OF BUILDING. TERMINATE ON ROOF BELOW WITH BIRD AND INSECT SCREEN IN DUCTWORK. INSTALL DUCTWORK IN SUCH A WAY TO PREVENT INTRUSION OF RAIN WATER. AVOID BLOCKING EXISTING WINDOW OPENINGS WITH DUCTWORK. REFER TO SHEET M103 FOR CONTINUATION.
6. DUCTWORK OF INDICATED SIZE ROUTED UP ALONG BUILDING EXTERIOR TO SECOND FLOOR MECHANICAL ROOM 2228. SEE SHEET M201 FOR CONTINUATION.
7. CONTRACTOR SHALL MAINTAIN 25 FOOT OFFSET BETWEEN OA INTAKE AND NEAREST SOURCE OF EXHAUST AIR OR OTHER DISCHARGES.
8. INSTALL LOUVER IN EXTERIOR FACADE OF BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. MAKE FULL SIZE PLENUM CONNECTION WITH DUCTWORK ON BACK SIDE OF LOUVER.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

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Revisions:	Date:

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VA CONTRACT NO.36C24724C0036
Bancroft Project No. 23-135

STAMP

REGISTERED PROFESSIONAL ENGINEER
RAED HAMID
062.065048
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - PARTIAL ROOF PLAN - 4K, 1B AREAS

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

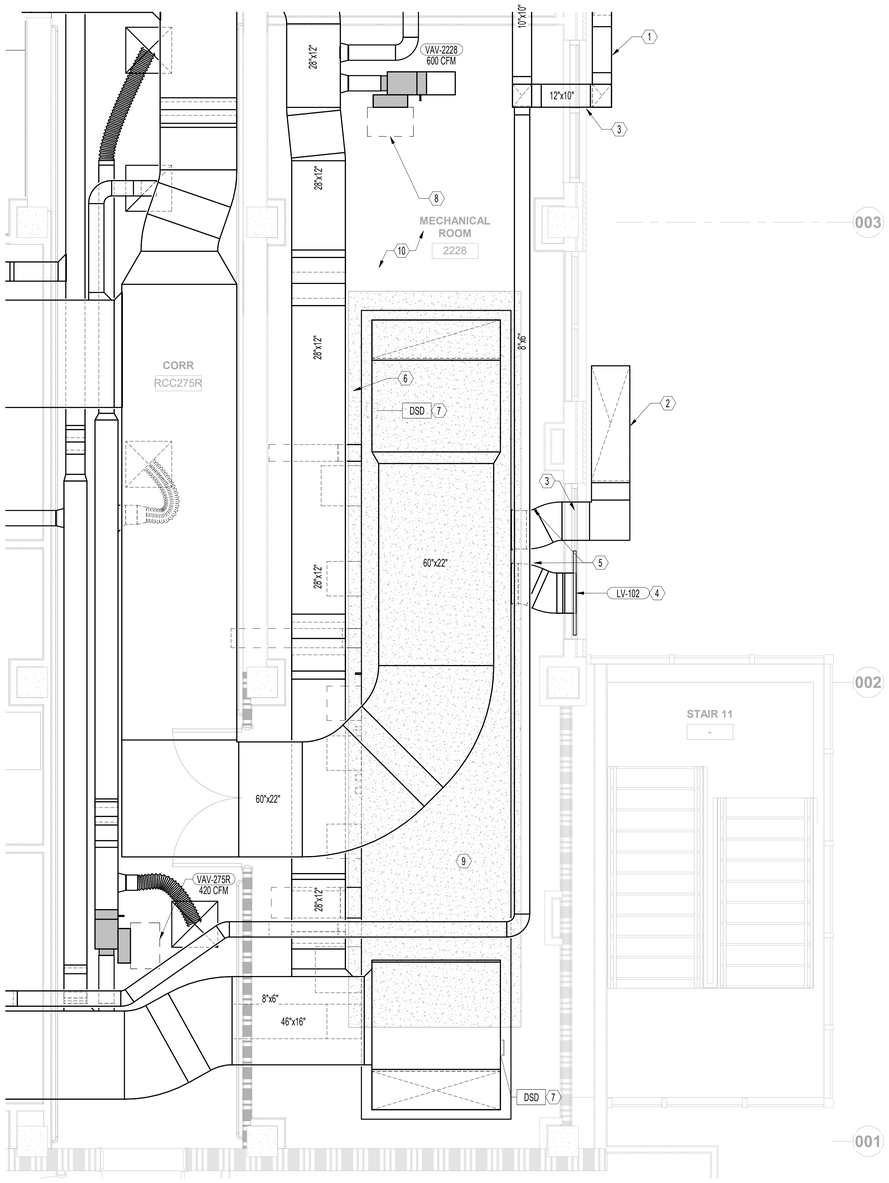
Issue Date: 05/15/2026

Checked: RH

Drawn: RR

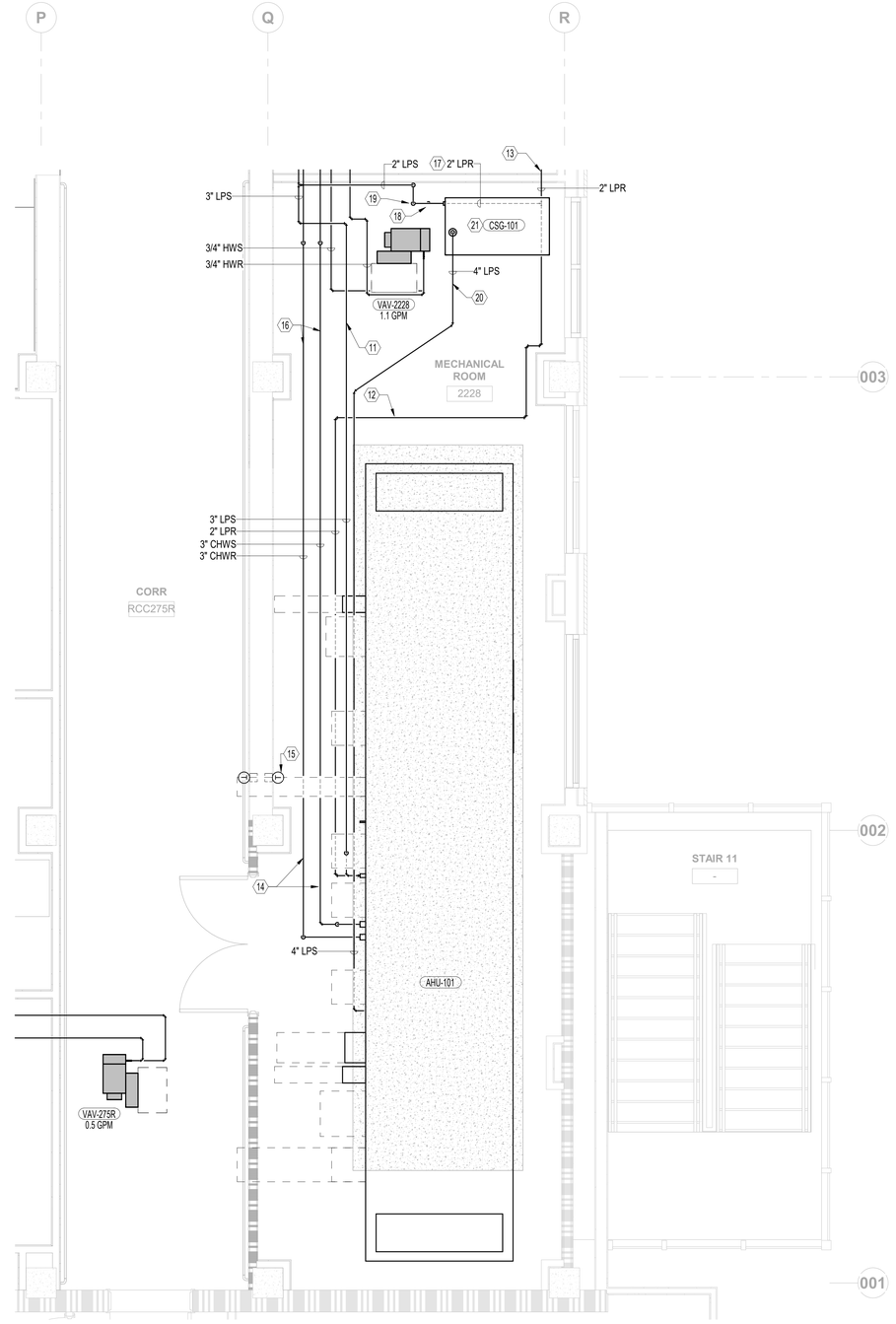
Drawing Number: M103

VA FORM 08-6231



1 ENLARGED VENTILATION PLAN - MECHANICAL ROOM 2224

3/8" = 1'-0"



2 ENLARGED PIPING PLAN - MECHANICAL ROOM 2224

3/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL REFER TO SHEETS MV102 AND MP102. ALL GENERAL NOTES APPLICABLE TO THOSE SHEETS ARE SIMILARLY APPLICABLE HERE IN ADDITION TO ANY NEW NOTES INCLUDED ON THIS SHEET.

B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PERFORMING WORK IN THE MECHANICAL ROOM PRIOR TO AND DURING CONSTRUCTION TO ENSURE COORDINATION.

C. PENETRATIONS THROUGH THE SHEAR WALL SEPERATING THE MECHANICAL ROOM FROM THE ADJACENT CORRIDOR ARE TO BE LIMITED TO LESSEN THE IMPACT ON THE EXISTING STRUCTURAL SYSTEM.

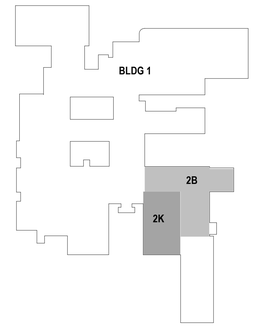
D. DESIGN INTENT IS TO UTILIZE MECHANICAL ROOM DOORS TO PROVIDE ADDITIONAL CLEARANCE FOR SERVICING THE AIR HANDLING UNIT.

(X) MECHANICAL KEY NOTES

1. DUCTWORK OF INDICATED SIZE ROUTED DOWN ALONG BUILDING EXTERIOR TO EF-102 ON FIRST FLOOR ROOF. SEE SHEET M103 FOR CONTINUATION.
2. DUCTWORK OF INDICATED SIZE ROUTED DOWN ALONG BUILDING EXTERIOR TO GOOSNECK TERMINATION ON FIRST FLOOR ROOF. SEE SHEET M103 FOR CONTINUATION.
3. DUCTWORK TO EXIT BUILDING THROUGH EXISTING WINDOW OPENING. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND INFILL INSTRUCTIONS.
4. INSTALL LOUVER IN EXTERIOR FACADE OF BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. MAKE FULL SIZE PLENUM CONNECTION WITH DUCTWORK TO AIR HANDLING UNIT.
6. MAINTAIN CLEARANCE FOR RETURN FAN SECTION ACCESS DOOR SWING.
7. DUCT SMOKE DETECTOR TIED TO BUILDING FIRE ALARM SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. FURNISH AND INSTALL VARIABLE VOLUME AIR BOX(ES) PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. (TYP. OF ALL).
9. INSTALL AIR HANDLING UNIT AHU-1 ON 6" CONCRETE PAD. COORDINATE EXACT LOCATION WITHIN ROOM WITH CLEARANCE AND ACCESS REQUIREMENTS DETERMINED BY FIELD CONDITIONS.
10. COORDINATE ELEVATIONS OF DUCTWORK AND EQUIPMENT WITHIN MECHANICAL ROOM TO ALLOW FOR ADEQUATE ACCESS AND CLEARANCE REQUIREMENTS.
11. INSTALL 3" LPS PIPING FROM EXISTING RISER TO PROVIDE STEAM TO AHU-1.
12. ROUTE 2" LPR PIPING LOW ALONG FLOOR BACK TO MAIN SYSTEM. INSTALL PIPING AT PITCH CONFORMING WITH SPECIFICATION REQUIREMENTS.
13. 2" LPR PIPING CONTINUES TO EXISTING RISER IN ROOM 2229.
14. 3" CHILLED WATER SUPPLY AND RETURN PIPING BACK TO RISER DOWN TO BASEMENT. REFER TO SHEET MP108 FOR CONTINUATION. INSTALL INLINE ELECTROMAGNETIC FLOW METER SIMILAR TO ONICON FT-3000 SERIES ON PIPING WITHIN THE MECHANICAL ROOM.
15. INSTALL WALL MOUNTED TEMPERATURE CONTROL THERMOSTAT. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS. (TYP. OF ALL).
16. CHILLED WATER SUPPLY AND RETURN PIPING INTENT IS TO CONTINUE DOWN NEARBY CHASE WITH NEW DEDICATED 3" PIPES AND TIE INTO EXISTING 6" OR 8" CHWS/R MAINS ON THE BASEMENT LEVEL. REFER TO SHEET MP108 FOR CONTINUATION.
17. ROUTE 2" LOW PRESSURE STEAM RETURN ALONG FLOOR BELOW CLEAN STEAM GENERATOR TO CONNECT TO MAIN RETURN LINE.
18. PROVIDE F&T STEAM TRAP OF VA APPROVED MATERIAL (STAINLESS STEEL, CAST STEEL) AT RETURN DISCHARGE FROM CLEAN STEAM GENERATOR.
19. 2" LPS ROUTED UP ALONG WALL TO MAIN STEAM SOURCE.
20. 4" ATMOSPHERIC PRESSURE STEAM SUPPLY LINE ROUTED TO AHU-101 HUMIDIFICATION SECTION. COORDINATE INSTALLATION WITH AHU INSTALLER'S WORK. PIPING MATERIAL AND PITCH TO BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND VA SPECIFICATIONS.
21. FURNISH AND INSTALL CLEAN STEAM GENERATOR. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE OF 36" FROM PIPING CONNECTION END.

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

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BANCROFT ARCHITECTS + ENGINEERS
VA CONTRACT NO.36C24724C0036

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Bancroft Project No. 23-135

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REGISTERED PROFESSIONAL ENGINEER
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062-065548
STATE OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - ENLARGED PLANS - MECHANICAL ROOM 2224

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

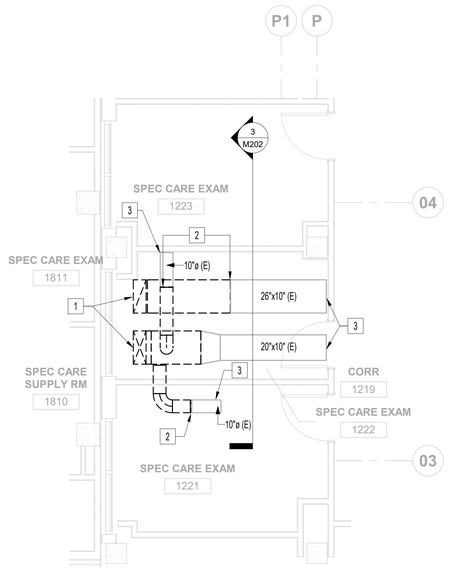
Issue Date: 05/15/2026

Checked: RH

Drawn: RR

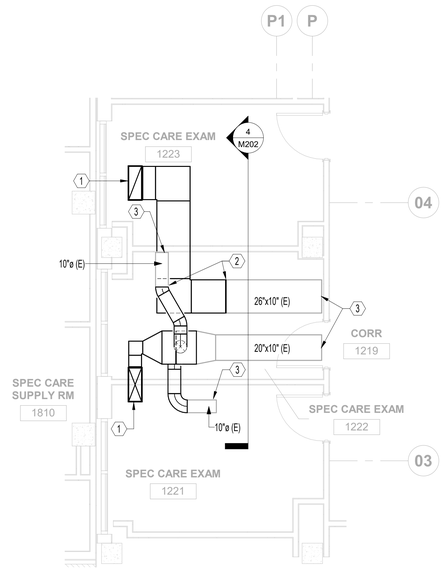
Drawing Number: M201

VA FORM 08-6231



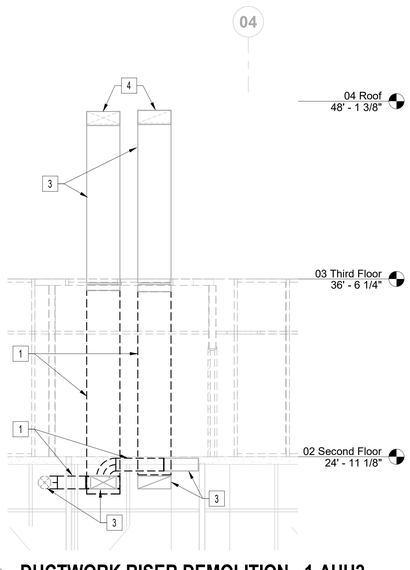
N 1 **ENLARGED VENTILATION DEMOLITION PLAN - EXAM 1213**

1/4" = 1'-0"



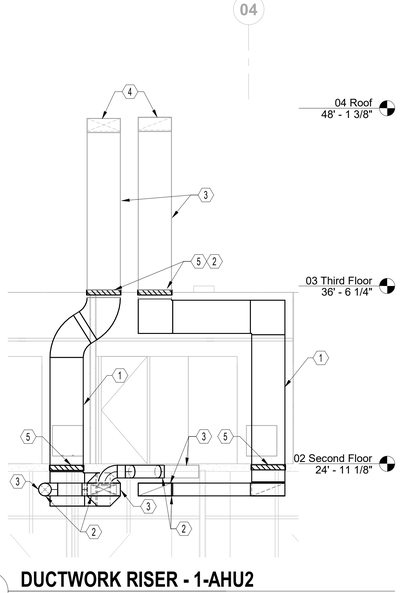
N 2 **ENLARGED VENTILATION PLAN - EXAM 1213**

1/4" = 1'-0"



N 3 **DUCTWORK RISER DEMOLITION - 1-AHU2**

1/4" = 1'-0"



N 4 **DUCTWORK RISER - 1-AHU2**

1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL INSULATION AT EXISTING SHEET METAL DUCTWORK WHICH BECOMES DAMAGED DURING CONSTRUCTION ACTIVITIES AND SHALL REPAIR OR REPLACE ANY INSULATION AT NEW AND OLD DUCT CONNECTIONS AND ANY MISSING OR DAMAGED INSULATION ON REUSED OR EXISTING DUCTWORK.

B. CLEAN AND SEAL ALL EXISTING DUCTWORK THAT WILL BE REUSED.

C. CONTRACTOR SHALL PERFORM PRE-CONSTRUCTION TEST AND BALANCE (TAB) AT ALL HVAC SYSTEMS BEING MODIFIED AND NOT COMPLETELY REMOVED. SUBMIT TAB REPORT TO VA COR PRIOR TO COMMENCING WORK.

D. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES ON ALL SUPPLY AND RETURN AIR DUCT OPENINGS BY SEALING WITH A DISPOSABLE POLYETHYLENE SHEETING TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM OR AIR TERMINAL UNITS.

E. DURING CONSTRUCTION, PROVIDE DUCT FILTERS OR OTHER DUCT PROTECTION MEANS TO PREVENT INFILTRATION OF CONSTRUCTION DUST AND DEBRIS INTO THE DUCT SYSTEM. THOROUGHLY CLEAN DUCTWORK BEFORE RECONNECTING.

F. CONTRACTOR SHALL REPAIR ANY PENETRATIONS THROUGH ANY WALLS, FLOORS, OR OTHER STRUCTURAL ELEMENTS NO LONGER REQUIRED FOR COMPLETION OF THIS DESIGN. REPAIRS SHALL BE MADE IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL DESIGNS AND TO MATCH EXISTING SURROUNDINGS.

G. COORDINATE DUCTWORK ELEVATIONS WITH EXISTING FIELD CONDITIONS AND BEAMS. VARIOUS ADJUSTMENTS HAVE BEEN MADE IN THESE DRAWINGS TO ACCOUNT FOR KNOWN STRUCTURAL INTERFERENCE POINTS.

H. COORDINATE ALL SERVICE OUTAGES WITH VA COR AND PROVIDE A MINIMUM OF 21 CALENDAR DAYS NOTICE PRIOR TO COMMENCING WORK.

(X) MECHANICAL DEMOLITION KEY NOTES

1. EXISTING SUPPLY AND RETURN DUCTWORK UP TO 1-AHU-2 ON 4K ROOF. DUCTWORK RISERS TO BE RELOCATED THROUGH SECOND FLOOR TO ACCOMODATE NEW DESIGN. REFER TO SHEETS MVD102 AND MD103 FOR CONTINUATION.
2. EXISTING DUCTWORK TO BE DISCONNECTED AT THIS LOCATION. PROVIDE TEMPORARY CLOSURE ON EXISTING TO REMAIN DUCTWORK TO PREVENT CONTAMINATION OF DUCTWORK. PREPARE DUCT FOR NEW CONNECTIONS.
3. EXISTING DUCTWORK TO REMAIN, PROTECT DURING CONSTRUCTION.
4. DUCTWORK TO 1-AHU-2 ON 4K ROOF. SEE SHEET MD103 FOR CONTINUATION.

(X) MECHANICAL KEY NOTES

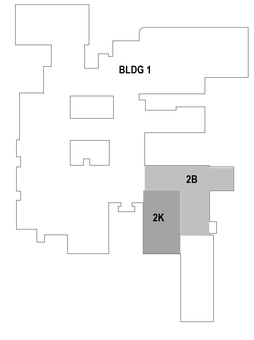
1. NEW DUCTWORK RISER FROM 1ST FLOOR CEILING UP TO SECOND FLOOR CEILING.
2. MAKE CONNECTION OF NEW DUCTWORK TO EXISTING DUCT SYSTEM AT THIS LOCATION.
3. EXISTING DUCTWORK TO REMAIN, PROTECT DURING CONSTRUCTION.
4. DUCTWORK TO 1-AHU-2 ON 4K ROOF. SEE SHEET MD103 FOR CONTINUATION.
5. INSTALL FIRE DAMPER IN DUCTWORK WHERE IT PENETRATES A RATED FLOOR. ENSURE FIRE DAMPER SIZE MATCHES DUCTWORK, DAMPERS ARE UL-LISTED AND ACCESSIBLE.

FIRE BARRIER LEGEND

2 HOUR FIRE -RATED BARRIER

1 HOUR FIRE -RATED BARRIER

COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



KEYPLAN

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Revisions:	Date:

CONSULTANT

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VA CONTRACT NO.36C24724C0036

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05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - ENLARGED PLANS - PARTIAL FIRST FLOOR

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: RH

Drawn: RR

Drawing Number: M202

VA FORM 08-6231

AIR PRESSURIZATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

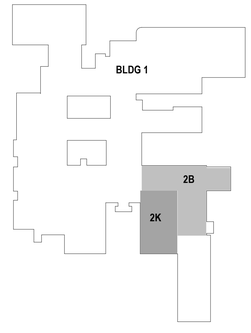
N

AIR PRESSURIZATION LEGEND

- DOUBLE NEGATIVE (-0.02" WC)
- NEGATIVE (-0.01" WC)
- NEUTRAL (0" WC)
- POSITIVE (+0.01" WC)
- DOUBLE POSITIVE (+0.02" WC)
- ARROW POINTS IN THE DIRECTION OF AIRFLOW

FIRE BARRIER LEGEND

- 2 HOUR FIRE -RATED BARRIER
- 1 HOUR FIRE -RATED BARRIER
- COMBINED 1 HR FIRE-RATED SMOKE BARRIER PARTITION



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OF ILLINOIS
05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL - AIR PRESSURIZATION PLAN - PARTIAL SECOND FLOOR - 2K, 2B AREAS

Phase: ISSUED FOR BID

Approved: Project Director

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

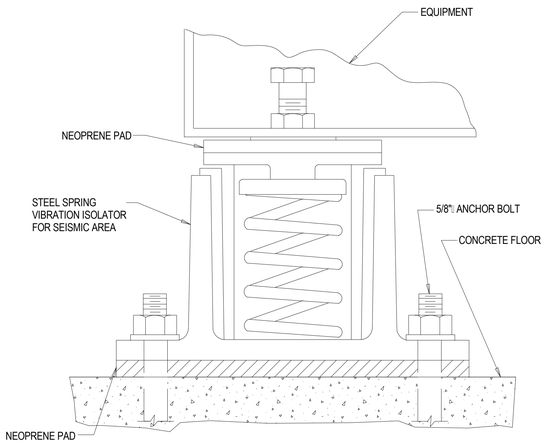
Issue Date: 05/15/2026

Checked: RH

Drawn: RR

Drawing Number: MA102

VA FORM 08-6231



4 VIBRATION ISOLATOR DETAIL
NTS

NOTE TO CONTRACTOR:
THESE DETAILS ARE DIAGRAMMATIC. ALL FINAL SEISMIC RESTRAINTS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 13 05 41 AND VA HANDBOOK H-18-8. NON STRUCTURAL SEISMIC RESTRAINT SYSTEMS SHALL BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER AS DELEGATED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT SEISMIC CERTIFICATION TO VA COR FOR APPROVAL. (EXAMPLE: OSHPD)

SEISMIC BRACING NOTES

GENERAL

1. NO BRACING IS REQUIRED IF THE TOP OF THE DUCT OR PIPE IS SUSPENDED 12 INCHES OR LESS FROM THE SUPPORTING STRUCTURAL MEMBER.

2. WALLS, INCLUDING DRYWALL PARTITIONS, MAY REPLACE REQUIRED TRANSVERSE OR VERTICAL BRACING FOR DUCTWORK OR PIPING.

3. SEISMIC CONTRACTOR SHALL INCLUDE ANCHORAGE DESIGN FOR HEAVY/VIBRATING EQUIPMENT WITH SEISMIC SNUBBERS.

4. CONTRACTOR SHALL MAINTAIN CLEARANCE FOR SERVICE ACCESS AROUND BRACING/SNUBBING.

5. ALL SEISMIC RESTRAINTS SHALL MEET OR EXCEED REQUIREMENTS OF SMACNA PUBLICATION "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" 3RD EDITION (2008).

6. SEISMIC DESIGN SHALL BE CAPABLE OF ACCOUNTING FOR UP TO 4" DISPLACEMENT. COORDINATE REQUIRED DISPLACEMENT WITH ALL OTHER SEISMIC DESIGN CRITERIA.

DUCTWORK

7. BRACE ALL RECTANGULAR DUCTS OF 6 SQ. FT. CROSS SECTIONAL AREA AND LARGER. BRACE ALL ROUND/OVAL DUCTS 28 INCHES IN DIAMETER AND LARGER.

8. TRANSVERSE AND VERTICAL BRACING SHALL OCCUR AT 30 FOOT INTERVALS, MAXIMUM. LONGITUDINAL BRACING SHALL OCCUR AT 60 FOOT INTERVALS, MAXIMUM.

PIPING

9. BRACE ALL PIPES 2 1/2 INCHES IN DIAMETER AND LARGER. IN MECHANICAL ROOMS ALSO BRACE 1 1/4", 1 1/2" AND 2 INCH PIPING AS FOR 2 1/2" PIPING. BRACE ALL FUEL GAS AND COMPRESSED AIR PIPING 1" AND LARGER.

10. TRANSVERSE AND VERTICAL BRACING SHALL OCCUR AT 40 FOOT INTERVALS, MAXIMUM UNLESS NOTED OTHERWISE. LONGITUDINAL BRACING SHALL OCCUR AT 80 FOOT INTERVALS, MAXIMUM. WHEN THERMAL EXPANSION OR CONTRACTION IS INVOLVED, PROVIDE LONGITUDINAL BRACING AT ANCHOR POINTS. THE LONGITUDINAL BRACES AND THE CONNECTIONS MUST BE CAPABLE OF RESISTING THE FORCE INDUCED BY EXPANSION AND CONTRACTION.

11. AT PIPE RISERS, WHEREVER POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER.

12. DO NOT FASTEN ONE RIGID PIPING SYSTEM TO DISSIMILAR PARTS OF THE BUILDING THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE; FOR EXAMPLE, A WALL AND A ROOF.

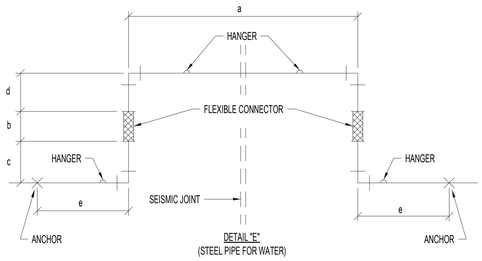
13. DO NOT USE BRANCH LINES TO BRACE MAIN LINES.

EQUIPMENT

14. FLOOR OR PAD MOUNTED EQUIPMENT, WITHOUT VIBRATION ISOLATORS, SHALL BE BOLTED TO THE OTHER SUPPORT.

15. FLOOR MOUNTED EQUIPMENT, WITH VIBRATION ISOLATORS, SHALL BE PROVIDED WITH LATERAL AND VERTICAL RESTRAINING DEVICES ON ALL SIDES OF THE BASE TO RESTRICT DISPLACEMENT OF THE EQUIPMENT.

16. ON ALL SIDES OF SUSPENDED EQUIPMENT, PROVIDE BRACING FOR RIGID SUPPORTS AND PROVIDE RESTRAINTS FOR RESILIENTLY SUPPORTED EQUIPMENT.



DETAIL "E"
(STEEL PIPE FOR WATER)

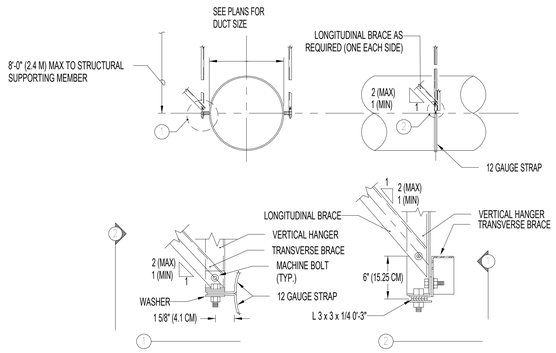
SCHEDULE FOR PIPING CROSSING A SEISMIC JOINT

LOCATION	PIPE	DETAIL	DIMENSIONS INCHES [mm]					
			a	b	c	d	e	f
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

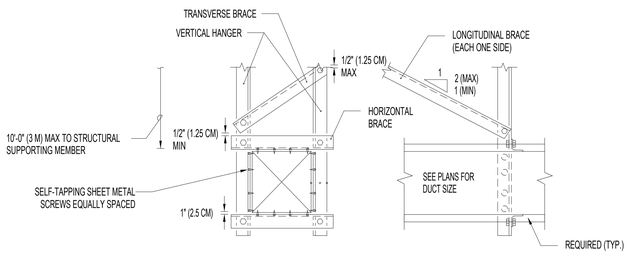
8 PIPING CROSSING A SEISMIC JOINT DETAIL "E"
NTS

NOTE:
THE GENERAL CONTRACTOR SHALL PROCURE THE SERVICES OF A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER IN COMPLIANCE WITH VA SPECIFICATION 13 05 41 AND VA HANDBOOK H-18-8. THE CONTRACTOR'S STRUCTURAL ENGINEER SHALL PERFORM THE CALCULATIONS REQUIRED TO POPULATE THE DIMENSIONS IN THE TABLE ABOVE AND SUBMIT FOR REVIEW AS PART OF THE COMPLETE SEISMIC SUBMITTAL.

DESIGNER'S NOTE:
1. THIS CONFIGURATION SHOWN IN THIS DETAIL IS A SUGGESTED ARRANGEMENT, NOT MANDATED FOR USE IN AS IS CONDITION. THE REGISTERED PROFESSIONAL STRUCTURAL ENGINEER IN CHARGE OF THE PROJECT SHALL PROVIDE SEISMIC CALCULATIONS AND MODIFY THE CONFIGURATION AS NEEDED TO MAKE THE ARRANGEMENT PROJECT-SPECIFIC. THE MECHANICAL DESIGNER SHALL COMPLETE THE BLANK SCHEDULES BY INSERTING THE DISTANCES, TO BE CALCULATED AND FURNISHED BY PROVIDED BY THE REGISTERED PROFESSIONAL STRUCTURAL ENGINEER.

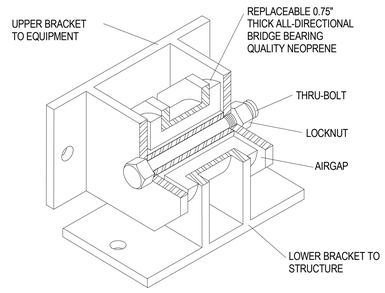


BRACING FOR ROUND DUCTS
NO SCALE

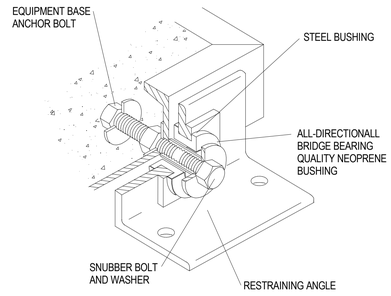


BRACING FOR RECTANGULAR DUCTS
NO SCALE

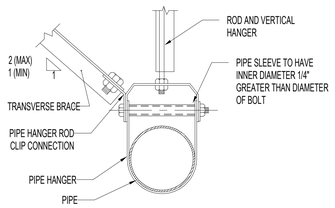
7 SEISMIC BRACING FOR PIPES AND ROUND AND RECTANGULAR DUCTS
NTS



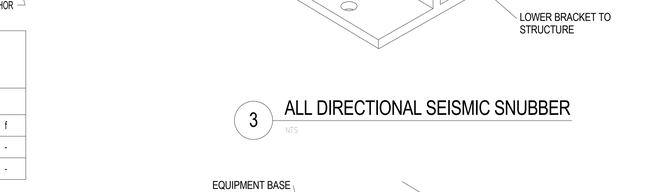
3 ALL DIRECTIONAL SEISMIC SNUBBER
NTS



2 ALL DIRECTIONAL SEISMIC SNUBBER
NTS

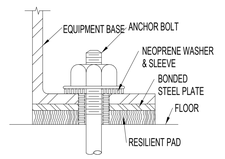


TRANSVERSE BRACING FOR PIPES
NO SCALE

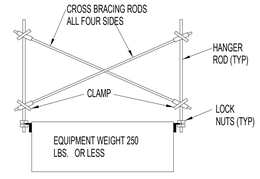


LONGITUDINAL BRACING FOR PIPES
NO SCALE

REFER TO DETAILS SHEETS



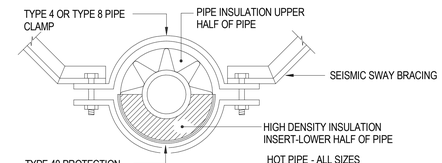
FLOOR MOUNT EQUIPMENT RESTRAINED BY RESILIENT PADS (TYPE DS)



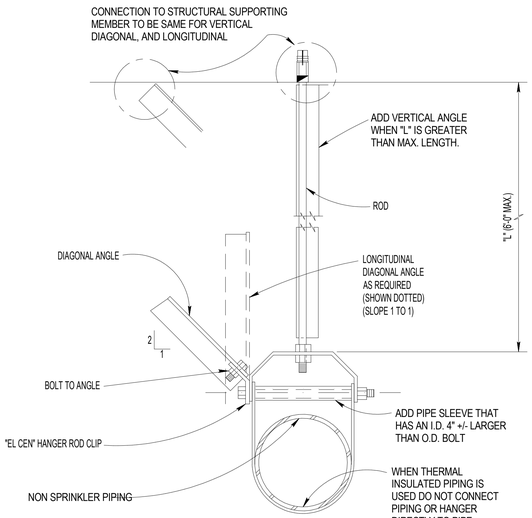
SEISMIC BRACING FOR LIGHT SUSPENDED EQUIPMENT

NOTE:
NOT REQUIRED FOR AIR TERMINAL UNITS.

1 SEISMIC BRACING FOR EQUIPMENT
NTS



5 SEISMIC SWAY BRACE DETAIL (INSULATED NON SPRINKLER PIPIPNG)
NTS



6 TYPICAL SEISMIC PIPE BRACING (2 1/2"ØAND LARGER PIPING)
NTS

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
65% DESIGN DEVELOPMENT SUBMITTAL	**09/08/2025**
Revisions:	**Date:**

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STAMP
REGISTERED PROFESSIONAL ENGINEER
RAED HAMD
060-065048
ILLINOIS
05-15-2026

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

Drawing Title MECHANICAL DETAILS	**Phase** ISSUED FOR BID	**Project Title** RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	**Project Number** 521-24-102
			Building Number #1
Approved: Project Director		**Location** BIRMINGHAM VAMC	**Drawing Number** M501
		Issue Date 05/15/2026 / **Checked** RH / **Drawn** RR	

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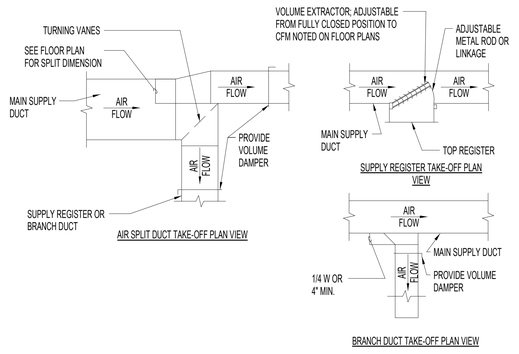
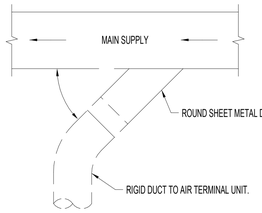
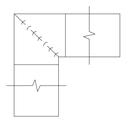


4 SUPPLY DUCTWORK TAKE-OFFS
NTS

DESIGNER'S NOTES:
1. THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP UP TO 25% OF THE MAIN DUCT CFM. THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM [5.1 M/S] OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES AND MAY BE USED AT ANYTIME.
2. SHOW ALL VOLUME DAMPERS ON FLOOR PLANS.

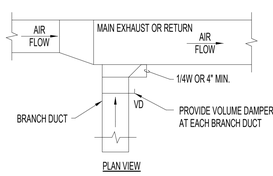


8 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT
NTS

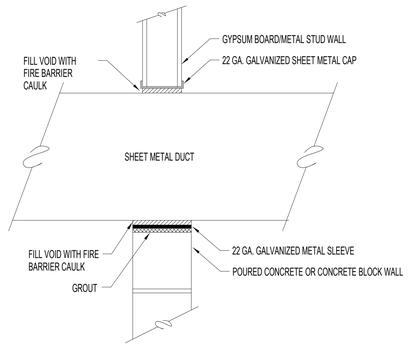


NOTES:
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

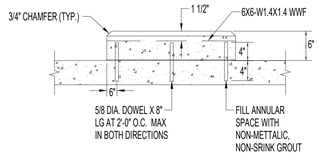
12 DUCTWORK SQUARE VANE ELBOWS
NTS



13 EXHAUST OR RETURN BRANCH DUCTWORK
NTS

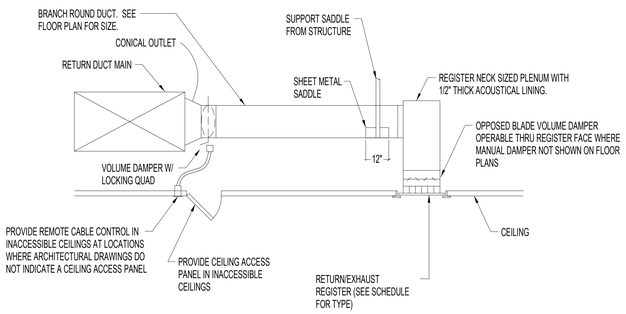


3 DUCT SLEEVE THRU INTERIOR WALL
NTS

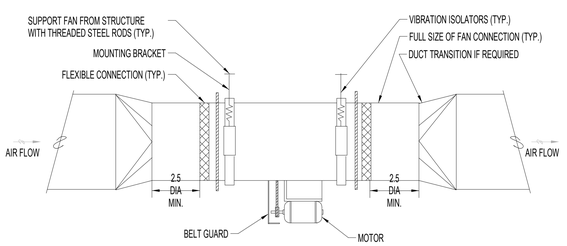


CONCRETE NOTES:
1. CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND UTILITIES, SUCH AS PIPING AND CONDUITS PRIOR TO INSTALLING DOWELS.
2. HOUSEKEEPING SLAB CONCRETE SHALL BE MIXED TO ACHIEVE THE FOLLOWING:
   a. COMPRESSIVE STRENGTH (28 DAY): 4,000 PSI
   b. SLUMP: 4 INCH
   c. AIR ENTRAINMENT: 6 +- 1%
   d. MAX WATER-CEMENT RATIO (BY WEIGHT): 0.50
3. WELDED STEEL WIRE FABRIC SHALL BE PLAIN TYPE, ANSI/ASTM A185: IN FLAT SHEETS; UNCOATED FINISH.
4. CEMENT USED SHALL MEET ASTM C150, TYPE 1-NORMAL PORTLAND TYPE..
5. CURE SURFACES IN ACCORDANCE IN ACI 308.
6. PAINT PAD YELLOW.
7. APPLY BONDING AGENT AND HORIZONTAL DOWELS PRIOR TO POURING NEW CONCRETE FOR PAD EXTENSIONS.

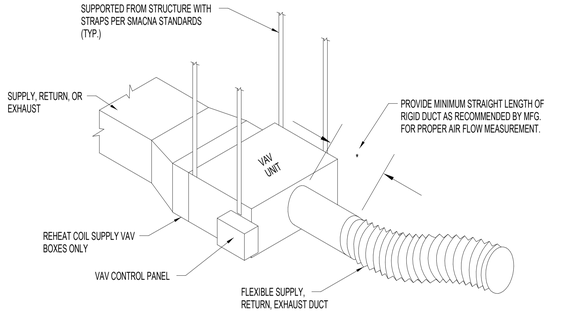
7 CONCRETE EQUIPMENT PAD
NTS



11 GRILLE INSTALLATION
NTS

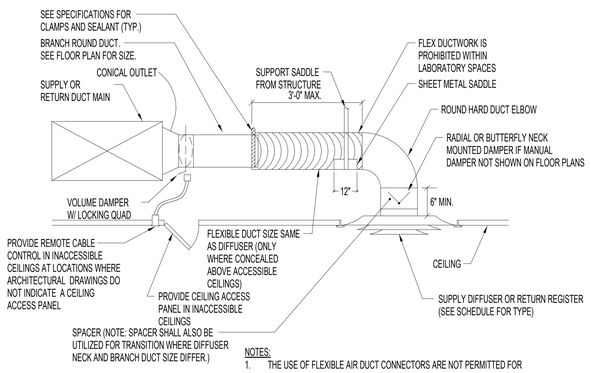


2 IN-LINE EXHAUST FAN
NTS



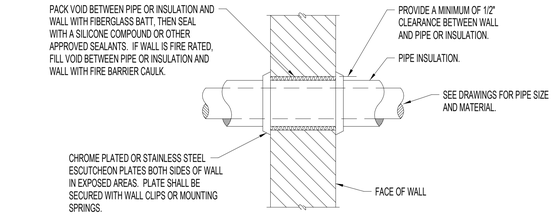
NOTES:
1. VERIFY RIGHT OR LEFT HAND CLEARANCE REQUIREMENTS WITH PLANS.
2. THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE LAB SUITE.
3. THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR USE ABOVE INACCESSIBLE CEILINGS.

6 VAV BOX INSTALLATION
NTS



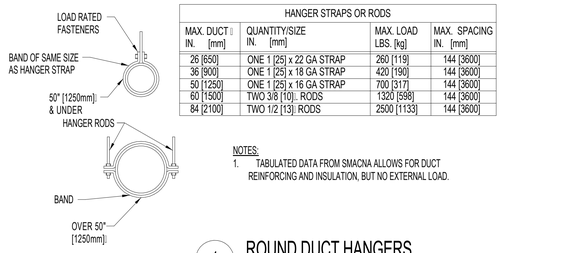
NOTES:
1. THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE LAB SUITE.
2. THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR USE ABOVE INACCESSIBLE CEILINGS.

10 DIFFUSER INSTALLATION
NTS



NOTES:
1. I.D. OF WALL OPENING TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND/OR CONTRACTORS.
3. PIPE PENETRATIONS OF SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.

5 INTERIOR WALL PIPE PENETRATION
NTS

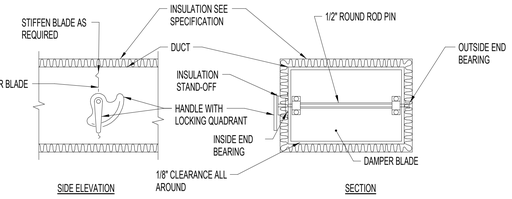


HANGER STRAPS OR RODS			
MAX. DUCT ▯ IN. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10]▯ RODS	1320 [598]	144 [3600]
84 [2100]	TWO 1/2 [13]▯ RODS	2500 [1133]	144 [3600]

NOTES:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

1 ROUND DUCT HANGERS
NTS

DESIGNER'S NOTE:
DESCRIBE OR DETAIL UPPER ATTACHMENTS APPLICABLE TO PARTICULAR PROJECTS.



NOTES:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

9 VOLUME DAMPER
NTS

REVIEW ONLY - NOT FOR CONSTRUCTION

Revisions:	Date:
ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025

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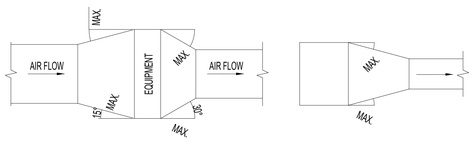
Bancroft Project No. 23-135

STAMP
LICENSED PROFESSIONAL ENGINEER RAED HAMD 062.065048
05-15-2026

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

Drawing Title: MECHANICAL DETAILS
Approved: Project Director
Phase: ISSUED FOR BID
Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Project Number: 521-24-102
Building Number: #1
Location: BIRMINGHAM VAMC
Issue Date: 05/15/2026
Checked: RH
Drawn: RR
Drawing Number: M502

VA FORM 08-6231

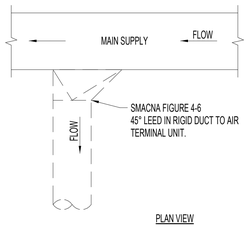


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

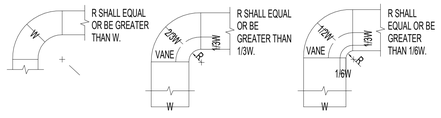
NOTES:
1. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

4 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)
NTS



PLAN VIEW

8 ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT
NTS



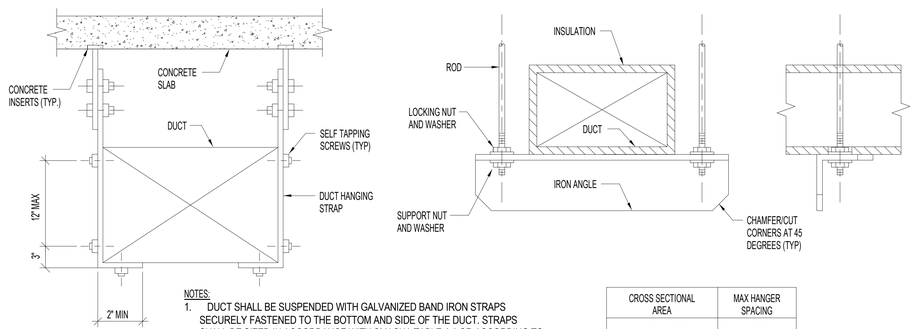
STANDARD RADIUS OR LONG RADIUS ELBOW

SHORT RADIUS ELBOW WITH ONE VANE

SHORT RADIUS ELBOW WITH TWO VANES

NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

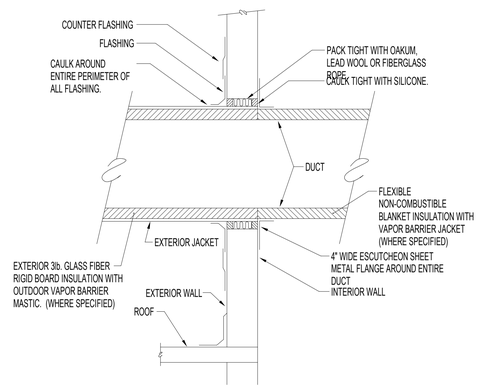
9 DUCTWORK RADIUS ELBOWS
NTS



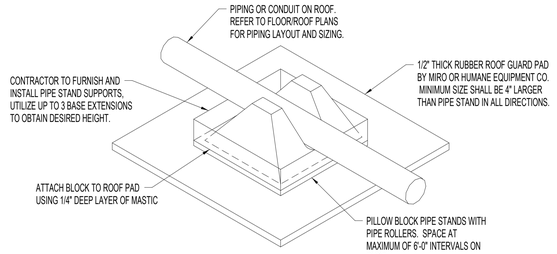
NOTES:
1. DUCT SHALL BE SUSPENDED WITH GALVANIZED BAND IRON STRAPS SECURELY FASTENED TO THE BOTTOM AND SIDE OF THE DUCT. STRAPS SHALL BE SIZED IN ACCORDANCE WITH SMACNA TABLE 4-1 OR ACCORDING TO LOCAL CODES, WHICHEVER IS MORE STRINGENT.
2. DUCTS WIDER THAN 60 INCHES SHALL BE SUPPORTED BY TRAPEZE ANGLES IN ACCORDANCE WITH SMACNA TABLE 4-1.

CROSS SECTIONAL AREA	MAX HANGER SPACING
UP TO 4 FEET	8 FEET
OVER 4 FEET NOT TO EXCEED 10 FEET	6 FEET
OVER 10 FEET	4 FEET

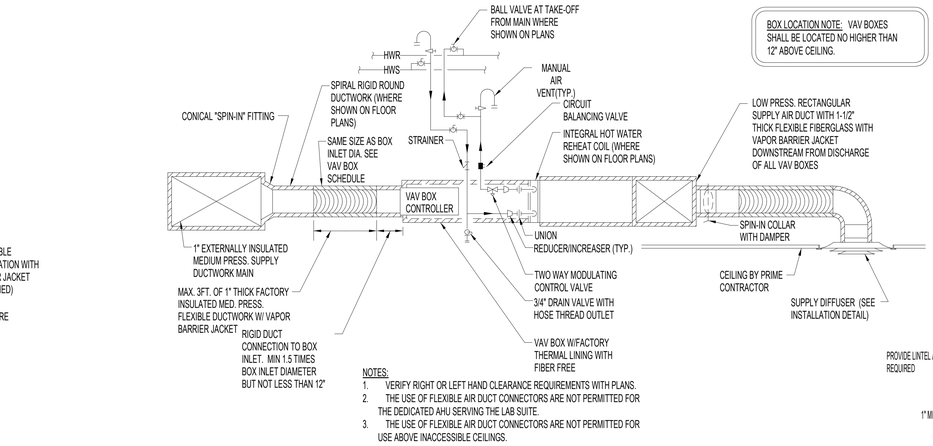
12 RECTANGULAR DUCT INSTALLATION
NTS



3 TYPICAL EXTERIOR TO INTERIOR DUCT PENETRATION
NTS



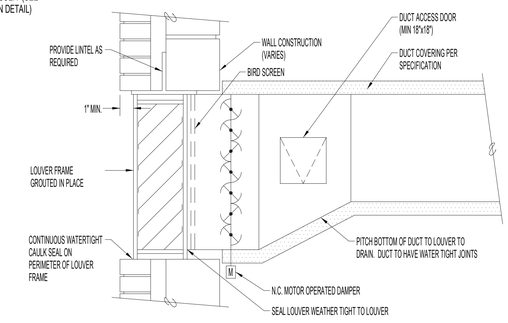
7 PIPING-CONDUIT (UP TO 3" DIA.) ROOF SUPPORT
NTS



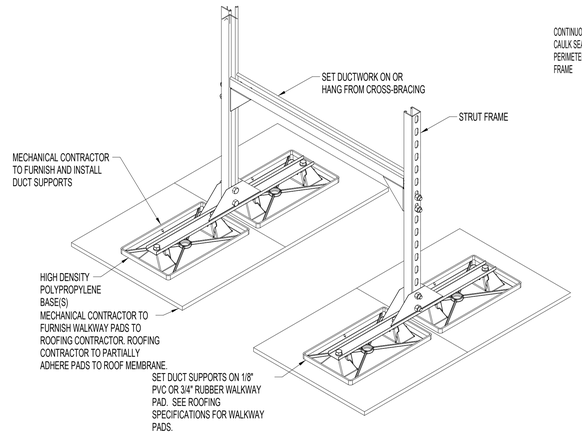
BOX LOCATION NOTE: VAV BOXES SHALL BE LOCATED NO HIGHER THAN 12" ABOVE CEILING.

NOTES:
1. VERIFY RIGHT OR LEFT HAND CLEARANCE REQUIREMENTS WITH PLANS.
2. THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE LAB SUITE.
3. THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR USE ABOVE INACCESSIBLE CEILINGS.

2 VAV BOX PIPING DETAIL
NTS



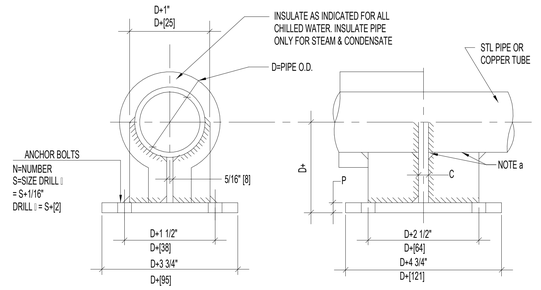
1 DUCT CONNECTION TO WALL LOUVER
NTS



NOTES:
SPACE DUCT SUPPORTS AT MAXIMUM 8'-0" INTERVALS ON ROOF.

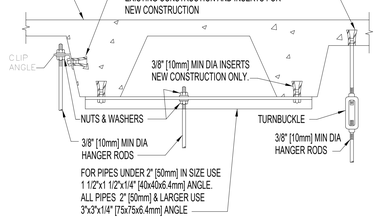
6 DUCT SUPPORT ROOF CURB
NTS

PIPE ANCHOR SCHEDULE										
D		P		C		N		S		BOLT PATTERN
IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	
4"	102	5/8"	16	3/4"	19	4"	102	3/4"	19	
3"	76	1/2"	13	1/2"	13	4"	102	5/8"	16	
2 1/2"	64	3/8"	10	3/8"	10	4"	102	5/8"	16	
2"	51	3/8"	10	3/8"	10	4"	102	5/8"	16	
1 1/2"	38	3/8"	10	1/4"	6	4"	102	1/2"	13	

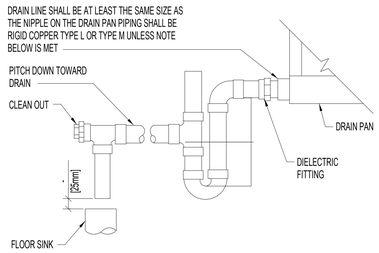


NOTES:
a. WHERE USED FOR COPPER TUBE OR PIPE, BRAZE TO FABRICATED STEEL ANCHOR

5 SMALL PIPE ANCHOR 1 1/2"- 4"
NTS



10 SECURING HANGER RODS IN CONCRETE
NTS



NOTES:
1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2" [50mm] PLUS X	X
BLOW THRU	1" [25mm] MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

11 AIR HANDLING UNIT DRAIN TRAP DETAIL
NTS

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ISSUED FOR BID	**05/15/2026**
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95% CONSTRUCTION DOCUMENTS	**01/30/2026**
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Revisions:	**Date:**

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05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL DETAILS

Phase
ISSUED FOR BID

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number
521-24-102

Building Number
#1

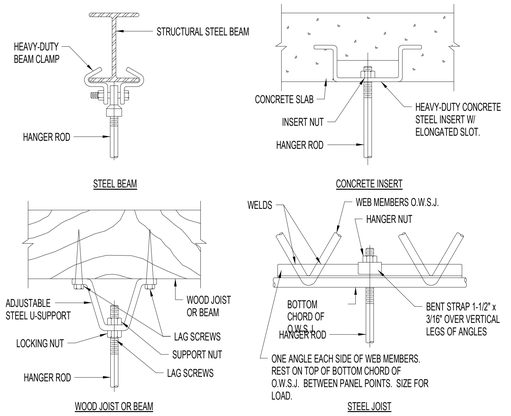
Location
BIRMINGHAM VAMC

Drawing Number
M503

Approved: Project Director

Issue Date 05/15/2026
Checked RH
Drawn RR

VA FORM 08-6231



PIPE HANGERS AND SUPPORTS

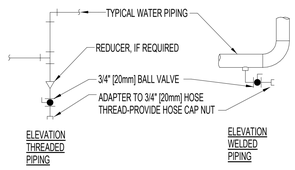
SUPPORT HORIZONTAL STEEL AND COPPER PIPING AS FOLLOWS:

NOMINAL PIPE SIZE	DISTANCE BETWEEN SUPPORTS	HANGER ROD DIAMETERS
3/4 TO 1-1/2"	6'	1/2"
2" TO 2-1/2"	10'	1/2"
3" AND 4"	12'	5/8"
6" TO 12"	14'	7/8"
14" TO 18"	20'	1"

PLACE HANGER WITHIN 1 FOOT OF EACH HORIZ. ELBOW. SUPPORT HORIZ. SOIL WASTE AND STORM PIPE NEAR EACH HUB, WITH 5 FEET MAXIMUM SPACING BETWEEN HANGERS. VERTICAL PIPING:
1. SUPPORT VERTICAL WATER PIPING AT EVERY FLOOR.
2. SUPPORT VERTICAL SOIL PIPE AT EACH FLOOR AT HUB.

WHERE SEVERAL PIPES CAN BE INSTALLED IN PARALLEL AND AT SAME ELEVATION PROVIDE MULTIPLE OR TRAPEZE HANGERS. WHERE PRACTICAL, SUPPORT RISER PIPING INDEPENDENTLY OF CONNECTED HORIZ. PIPING.

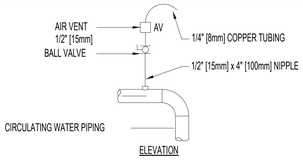
4 PIPE HANGER
NTS



TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.

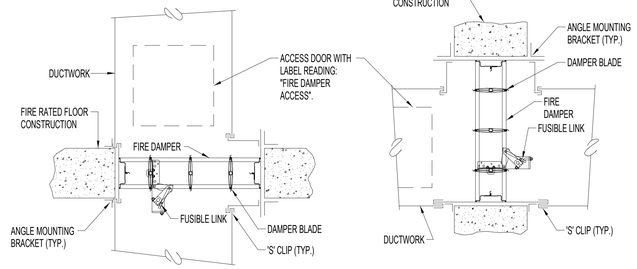
DESIGNER'S NOTE:
SHOW SCALE POCKETS ON MAJOR CIRCULATING WATER PIPING RISER DIAGRAMS AND/OR PLANS.



TYPICAL AUTOMATIC AIR VENT

NOTES:
1. VENT ALL HIGH POINTS INDICATED ABOVE.DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

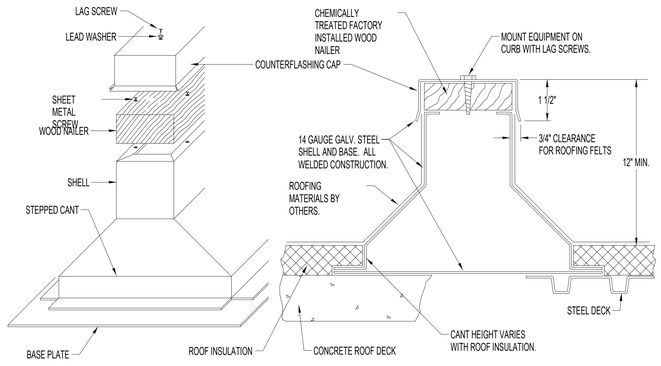
9 DRAIN VALVE AND AIR VENT CONNECTIONS (HYDRONIC SYSTEMS)
NTS



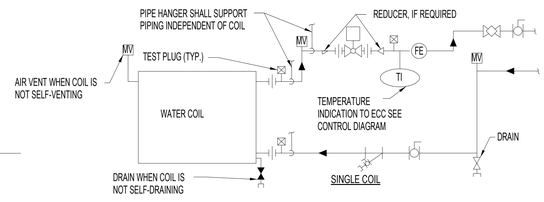
FLOOR DAMPER — WALL DAMPER

NOTES:
1. ACCESS DOORS TO BE SIZED/LOCATED SUCH THAT RESETTING FIRE DAMPER LINK CAN BE ACCOMPLISHED VIA ACCESS DOOR.
2. MINIMUM SIZE IS 12"x12". PROVIDE MULTIPLE ACCESS DOORS AT WIDE DUCTS.
3. COORDINATE GENERAL CONTRACTOR FURNISHED/INSTALLED WALL OR CEILING ACCESS PANELS REQUIRED AT OTHERWISE INACCESSIBLE LOCATIONS.

3 FIRE DAMPER
NTS

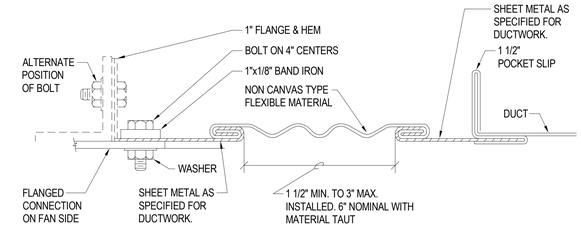


5 ROOF MOUNTED EQUIPMENT RAIL
NTS

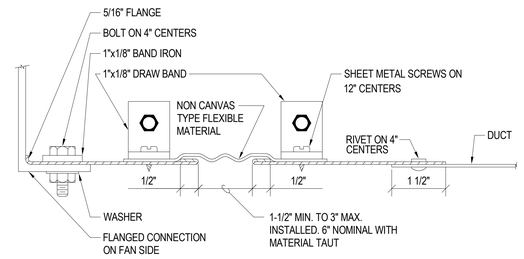


NOTES:
1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 100mm [4"]: PIPE & SMALLER. TYPE "H-P" FOR 125mm [5"]: PIPE & LARGER.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALES, OR EQUIPMENT.
3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.

8 WATER COILS - PIPING CONNECTIONS
NTS

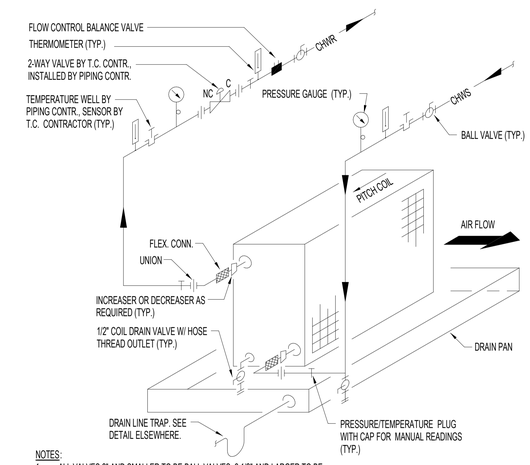


RECTANGULAR FLEXIBLE CONNECTION



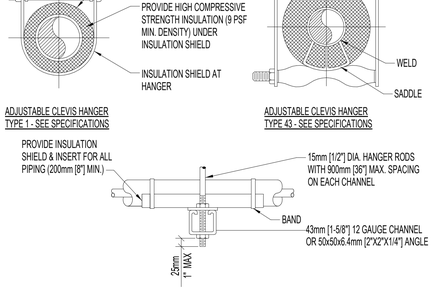
ROUND FLEXIBLE CONNECTION

2 DUCTWORK FLEXIBLE CONNECTION
NTS



NOTES:
1. ALL VALVES 2" AND SMALLER TO BE BALL VALVES, 2 1/2" AND LARGER TO BE BUTTERFLY VALVES.
2. INSTALL PIPE UNIONS ON 2" AND SMALLER PIPE, FLANGED PIPE 2 1/2" AND LARGER.
3. ALL COILS TO BE FACTORY TAPPED FOR MANUAL AIR VENT AT HIGH POINT AND DRAIN AT LOW POINT OF COIL.
4. ALL COILS TO BE PIPED FOR COUNTER FLOW OF AIR AND WATER.
5. PIPING TO COIL SHALL BE ARRANGED SO AS NOT TO BLOCK OFF ANY ACCESS REQUIREMENTS OR SERVICE AREAS OF AIR HANDLING UNIT.
6. SEE FLOOR PLANS FOR PIPE SIZES.
7. PROVIDE FLEXIBLE PIPING CONNECTIONS AS SHOWN WHERE AIR HANDLING UNIT IS NOT INTERNALLY ISOLATED OR WHERE SPECIFICALLY CALLED FOR ON DRAWINGS.
8. PIPING CONTRACTOR SHALL FURNISH/INSTALL TEMPERATURE WELLS AS SHOWN FOR FUTURE USE EVEN IF SENSORS ARE NOT PROVIDED UNDER THIS PROJECT.
9. PROVIDE THERMOMETERS AND ANALOG PRESSURE GAUGES IN ADDITION TO DIGITAL GAUGES.

1 CHILLED WATER COIL WITH 2-WAY VALVE PIPING DETAIL
NTS



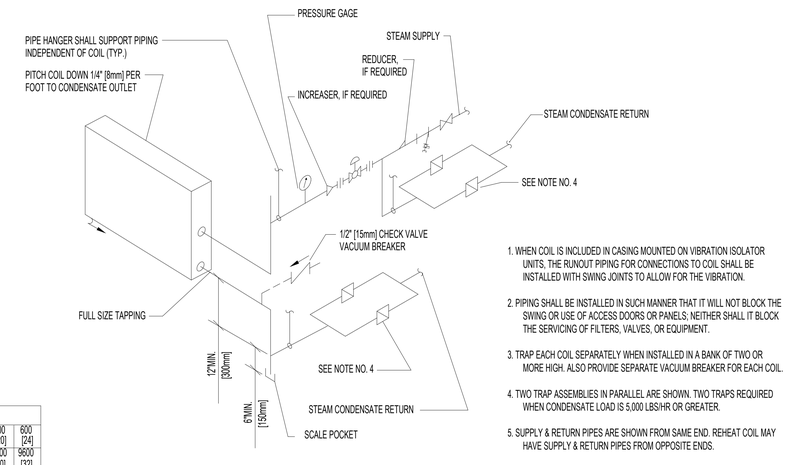
SIDE VIEW TRAPEZE HANGER FOR UP TO 453KG [1000 LB] UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING

NOM. SIZE		THRU 20 [THRU ¾]	25 [1]	32 [1¼]	40 [1½]	50 [2]	65 [2½]	75 [3]	100 [4]	125 [5]	150 [6]	200 [8]	250 [10]	300 [12]	350 [14]	400 [16]	450 [18]	500 [20]	600 [24]
PIPE	mm [FT]	2100 [7]	2100 [7]	2100 [7]	2700 [9]	3000 [10]	3400 [11]	3700 [12]	4100 [14]	4900 [16]	5200 [17]	5800 [19]	6700 [22]	7000 [23]	7600 [25]	8200 [27]	8500 [28]	9100 [30]	9600 [32]
TUBING	mm [FT]	1500 [5]	1800 [6]	2100 [7]	2400 [8]	2400 [8]	2700 [9]	3000 [10]	3700 [12]	4000 [13]	4100 [14]	4900 [16]	- -	- -	- -	- -	- -	- -	- -

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

7 PIPE HANGERS
NTS



1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATOR UNITS, THE RUNOUT PIPING FOR CONNECTIONS TO COILS SHALL BE INSTALLED WITH SWING JOINTS TO ALLOW FOR THE VIBRATION.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.
3. TRAP EACH COIL SEPARATELY WHEN INSTALLED IN A BANK OF TWO OR MORE HIGH. ALSO PROVIDE SEPARATE VACUUM BREAKER FOR EACH COIL.
4. TWO TRAP ASSEMBLIES IN PARALLEL ARE SHOWN. TWO TRAPS REQUIRED WHEN CONDENSATE LOAD IS 5,000 LBS/HR OR GREATER.
5. SUPPLY & RETURN PIPES ARE SHOWN FROM SAME END. REHEAT COIL MAY HAVE SUPPLY & RETURN PIPES FROM OPPOSITE ENDS.

6 STEAM COIL - PIPING CONNECTIONS
NTS

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Revisions:	**Date:**

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05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS

Phase: ISSUED FOR BID

Approved: Project Director

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Location: BIRMINGHAM VAMC

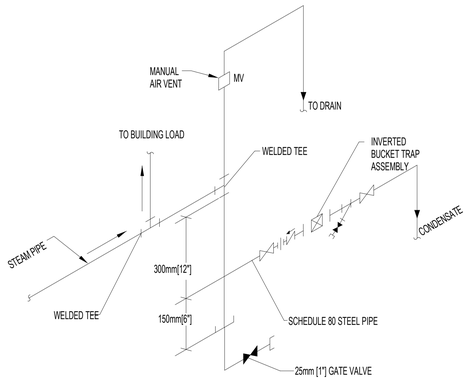
Issue Date: 05/15/2026

Checked: RH

Drawn: RR

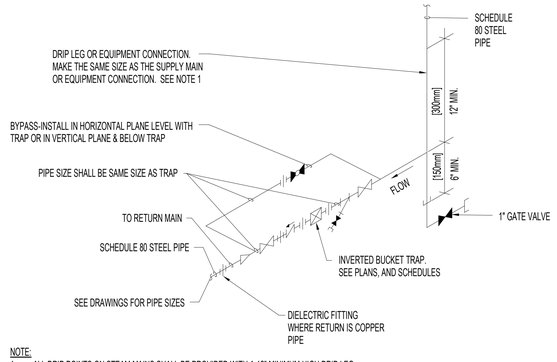
Drawing Number: M504

VA FORM 08-6231



4 END OF STEAM LINE DRIP TRAP

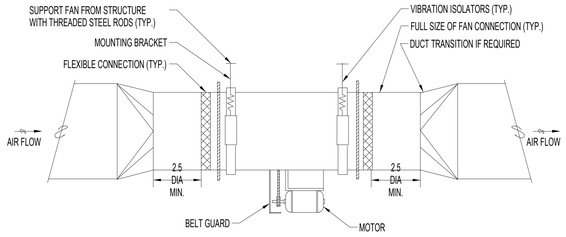
NTS



NOTE:
1. ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.
2. PROVIDE BYPASS PIPING.

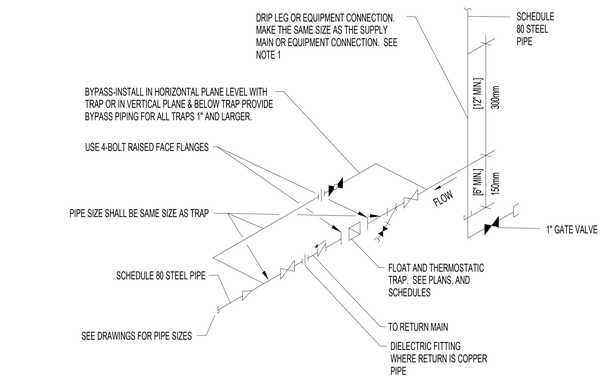
3 INVERTED BUCKET STEAM TRAP ASSEMBLY

NTS



2 IN-LINE EXHAUST FAN

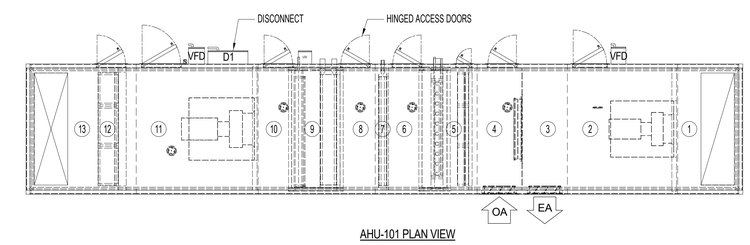
NTS



NOTE: ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 12" MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 6" SCALE POCKET BELOW TRAP INLET.

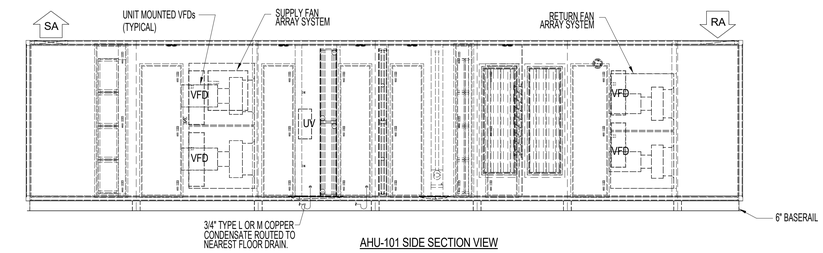
1 FLOAT AND THERMOSTATIC STEAM TRAP ASSEMBLY

NTS



AHU-101 PLAN VIEW

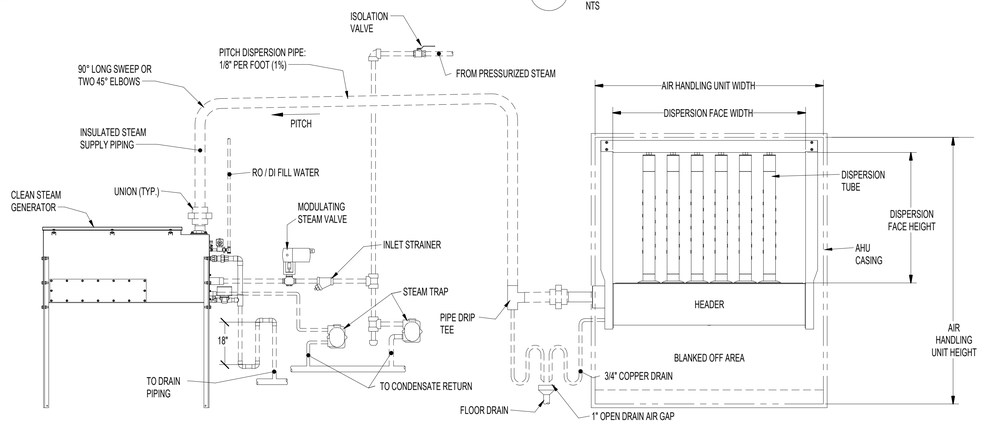
POSITION #	MODULE
1	INLET PLENUM
2	RETURN FAN SECTION
3	RELIEF AIR PLENUM
4	OUTSIDE AIR INTAKE
5	FILTER SECTION
6	HUMIDIFIER SECTION
7	HEATING COIL
8	ACCESS SECTION
9	UV LIGHT SECTION
10	COOLING COIL
11	SUPPLY FAN SECTION
12	FINAL FILTER SECTION
13	DISCHARGE PLENUM



AHU-101 SIDE SECTION VIEW

5 AIR HANDLING UNIT (AHU-101)

NTS



7 CLEAN STEAM GENERATOR DETAIL

NOT TO SCALE

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95% CONSTRUCTION DOCUMENTS	01/30/2026
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OF ILLINOIS
05-15-2026

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Drawing Title: MECHANICAL DETAILS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
Approved: Project Director			Building Number: #1
		Location: BIRMINGHAM VAMC	Drawing Number: M505
		Issue Date: 05/15/2026 / Checked: RH / Drawn: RR	

VA FORM 08-6231

VENTILATION AND ROOM BALANCE SCHEDULE | VA DESIGN GUIDE (2024 Version)

LAST UPDATED: 5/7/2026

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	ROOM DATA			VA REQUIRED AIR SUPPLY						LOAD CALCULATED AIRFLOW RATES	ACTUAL DESIGN VENTILATION			
													SUPPLY CFM		RETURN/EXHAUST	
													% OA =	30%		
			AREA (FT2)	CEILING HEIGHT (FT)	VOLUME (FT3)	TOTAL ACH REQ'D	OA ACH	TOTAL SPACE CFM REQ'D	OA CFM REQ'D	ROOM AIR BALANCE (+,-,0)	RETURN/ EXHAUST	SUPPLY (INPUT FROM 8670 SOFTWARE)	TOTAL	TOTAL O.A.	RETURN CFM	GENERAL EXHAUST CFM
2801	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	131	8	1048	6	2	105	35	(0)	RETURN	155	155	47	155	0
2802	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	132	8	1056	6	2	106	35	(0)	RETURN	382	385	116	385	0
2803	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	132	8	1056	6	2	106	35	(0)	RETURN	266	270	81	270	0
2804	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	131	8	1048	6	2	105	35	(0)	RETURN	155	155	47	155	0
2805	OPH IMAGING	EXAM/TREATMENT ROOM OPTOMETRY	158	8	1264	6	2	126	42	(0)	RETURN	162	165	50	165	0
2806	OPH IMAGING	EXAM/TREATMENT ROOM OPTOMETRY	159	8	1272	6	2	127	42	(0)	RETURN	162	165	50	165	0
2807	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	150	8	1200	6	2	120	40	(0)	RETURN	160	160	48	160	0
2808	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	131	8	1048	6	2	105	35	(0)	RETURN	155	155	47	155	0
2809	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	132	8	1056	6	2	106	35	(0)	RETURN	332	335	101	335	0
2810	TOILET STAFF	STAFF TOILET	49	8	392	10	N/A	65	N/A	(- -)	EXHAUST (G)	7	50	15	0	70
2811	STORAGE	CLEAN UTILITY/STORAGE ROOM	101	8	808	4	N/A	54	N/A	(+)	RETURN	15	55	17	50	0
2812	OPH WORK AREA	CORRIDORS	52	8	416	4	2	28	14	(+)	RETURN	60	60	18	55	0
2813	OPH OFFICE	OFFICES	128	8	1024	4	2	68	34	(0)	RETURN	206	210	63	210	0
2814	OPH OFFICE	OFFICES	128	8	1024	4	2	68	34	(0)	RETURN	208	210	63	210	0
2815	OPH OFFICE	OFFICES	127	8	1016	4	2	68	34	(0)	RETURN	208	210	63	210	0
2816	OPH OFFICE	OFFICES	127	8	1016	4	2	68	34	(0)	RETURN	209	210	63	210	0
2817	OPH STORAGE	CLEAN UTILITY/STORAGE ROOM	27	8	216	4	N/A	14	N/A	(+)	RETURN	4	50	15	45	0
2818	HAC	HOUSEKEEPING AID CLOSET (HAC)	41	8	328	10	N/A	55	N/A	(- -)	EXHAUST (G)	5	50	15	0	55
2819	OPH WORK AREA	CORRIDORS	72	8	576	4	2	38	19	(+)	RETURN	81	85	26	75	0
2820	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	148	8	1184	6	2	118	39	(0)	RETURN	160	160	48	160	0
2821	OPH IMAGING	EXAM/TREATMENT ROOM OPTOMETRY	158	8	1264	6	2	126	42	(0)	RETURN	162	165	50	165	0
2822	OPH IMAGING	EXAM/TREATMENT ROOM OPTOMETRY	156	8	1248	6	2	125	42	(0)	RETURN	162	165	50	165	0
2823	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	143	8	1144	6	2	114	38	(0)	RETURN	158	160	48	160	0
2824	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	167	8	1336	6	2	134	45	(0)	RETURN	164	165	50	165	0
2825	OPH EXAM	EXAM/TREATMENT ROOM OPTOMETRY	172	8	1376	6	2	138	46	(0)	RETURN	165	165	50	165	0
2826	OPH WAITING	EXAM/TREATMENT ROOM OPTOMETRY	109	8	872	6	2	87	29	(0)	RETURN	50	100	30	100	0
2827	OPH DILATION	EXAM/TREATMENT ROOM OPTOMETRY	111	8	888	6	2	89	30	(0)	RETURN	11	100	30	100	0
RCC270R	CORRIDOR	CORRIDORS	286	8	2288	4	2	153	76	(+)	RETURN	76	255	77	220	0
RCC271R	CORRIDOR	CORRIDORS	79	8	632	4	2	42	21	(+)	RETURN	21	75	23	65	0
RCC272R	CORRIDOR	CORRIDORS	812	8	6496	4	2	433	217	(+)	RETURN	217	725	218	620	0
RCC273R	CORRIDOR	CORRIDORS	233	8	1864	4	2	124	62	(+)	RETURN	62	210	63	180	0
RCC274R	CORRIDOR	CORRIDORS	27	8	216	4	2	14	7	(+)	RETURN	7	50	15	45	0
RCC275R	CORRIDOR	CORRIDORS	462	8	3696	4	2	246	123	(+)	RETURN	123	415	125	355	0
RCC276R	CORRIDOR	CORRIDORS	464	8	3712	4	2	247	124	(+)	RETURN	124	415	125	355	0
RCC277R	CORRIDOR	CORRIDORS	164	8	1312	4	2	87	44	(+)	RETURN	44	150	45	130	0
RCC278R	CORRIDOR	CORRIDORS	535	8	4280	4	2	285	143	(+)	RETURN	143	480	144	410	0
RCC279R	CORRIDOR	CORRIDORS	109	8	872	4	2	58	29	(+)	RETURN	29	100	30	85	0
RCC280R	CORRIDOR	CORRIDORS	281	8	2248	4	2	150	75	(+)	RETURN	75	250	75	215	0
RCC281R	CORRIDOR	CORRIDORS	117	8	936	4	2	62	31	(+)	RETURN	31	105	32	90	0
RCC282R	CORRIDOR	CORRIDORS	465	8	3720	4	2	248	124	(+)	RETURN	124	415	125	355	0
RCC283R	CORRIDOR	CORRIDORS	167	8	1336	4	2	89	45	(+)	RETURN	45	150	45	130	0
RCC284R	CORRIDOR	CORRIDORS	208	8	1664	4	2	111	55	(+)	RETURN	55	185	56	160	0
TOTAL			7,681		61448			4814	1990			5140	8295	2489	7605	125

NOTES:
1. COORDINATED WITH VA DESIGN GUIDED 2024,CHAPTER 6: APPLICATIONS
2. ALL AIRFLOW RATES SHALL BE BALANCED WITHIN +/-10% IN ACCORDANCE WITH VA SPECIFICATION 23 05 93.

VENTILATION AND ROOM BALANCE SCHEDULE | VA DESIGN GUIDE (2024 Version)

LAST UPDATED: 5/7/2026

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	ROOM DATA			VA REQUIRED AIR SUPPLY						LOAD CALCULATED AIRFLOW RATES	ACTUAL DESIGN VENTILATION			
													SUPPLY CFM		RETURN/EXHAUST	
													% OA =	30%		
			AREA (FT2)	CEILING HEIGHT (FT)	VOLUME (FT3)	TOTAL ACH REQ'D	OA ACH	TOTAL SPACE CFM REQ'D	OA CFM REQ'D	ROOM AIR BALANCE (+,-,0)	RETURN/ EXHAUST	SUPPLY (INPUT FROM 8670 SOFTWARE)	TOTAL	TOTAL O.A.	RETURN CFM	GENERAL EXHAUST CFM
2200	WAITING AREA	WAITING ROOM	740	8	5920	6	2	592	197	(0)	RETURN	683	685	206	685	0
2201	RECEPTION/CHECK-OUT	OFFICES	296	8	2368	4	2	158	79	(0)	RETURN	242	265	80	265	0
2202	OPT BARIATRIC EXAM	EXAM/TREATMENT ROOM OPTOMETRY	150	8	1200	6	2	120	40	(0)	RETURN	109	135	41	135	0
2203	OPT OFFICE	EXAM/TREATMENT ROOM OPTOMETRY	109	8	872	6	2	87	29	(0)	RETURN	100	100	30	100	0
2204 / 2205	STORAGE	CLEAN UTILITY/STORAGE ROOM	19	8	152	4	N/A	10	N/A	(+)	RETURN	3	50	15	45	0
2206	ELEC EXST	CLEAN UTILITY/STORAGE ROOM	76	8	608	4	N/A	41	N/A	(+)	RETURN	51	55	17	50	0
2207	IT CLOSET EXST	TELECOMMUNICATION ROOMS (TR)	28	8	224	2	N/A	7	N/A	(+)	RETURN	4	50	15	45	0
2208	TOILET STAFF	STAFF TOILET	59	8	472	10	N/A	79	N/A	(- -)	EXHAUST (G)	19	50	15	0	80
2209	OPT EXAM	EXAM/TREATMENT ROOM OPTOMETRY	116	8	928	6	2	93	31	(0)	RETURN	312	315	95	315	0
2210	OPT EXAM STUDENT	EXAM/TREATMENT ROOM OPTOMETRY	112	8	896	6	2	90	30	(0)	RETURN	313	315	95	315	0
2211	OPT EXAM STUDENT	EXAM/TREATMENT ROOM OPTOMETRY	116	8	928	6	2	93	31	(0)	RETURN	307	310	93	310	0
2212	OPT OFFICE	ADMINISTRATIVE OFFICE	114	8	912	4	2	61	30	(0)	RETURN	287	290	87	290	0
2213	STORAGE	CLEAN UTILITY/STORAGE ROOM	20	8	160	4	N/A	11	N/A	(+)	RETURN	27	50	15	45	0
2214	OPT OFFICE CHIEF	ADMINISTRATIVE OFFICE	101	8	808	4	2	54	27	(0)	RETURN	357	360	108	360	0
2215	OPT EXAM	EXAM/TREATMENT ROOM OPTOMETRY	117	8	936	6	2	94	31	(0)	RETURN	344	345	104	345	0
2216	OPT EXAM	EXAM/TREATMENT ROOM OPTOMETRY	114	8	912	6	2	91	30	(0)	RETURN	344	345	104	345	0
2217	OPT EXAM	EXAM/TREATMENT ROOM OPTOMETRY	118	8	944	6	2	94	31	(0)	RETURN	344	345	104	345	0
2218	OPT DILATION / WAITING	EXAM/TREATMENT ROOM OPTOMETRY	164	8	1312	6	2	131	44	(0)	RETURN	335	335	101	335	0
2219	OPT EXAM	EXAM/TREATMENT ROOM OPTOMETRY	126	8	1008	6	2	101	34	(0)	RETURN	302	305	92	305	0
2220	OPT IMAGING	EXAM/TREATMENT ROOM OPTOMETRY	127	8	1016	6	2	102	34	(0)	RETURN	192	195	59	195	0
2221	OPT IMAGING	EXAM/TREATMENT ROOM OPTOMETRY	126	8	1008	6	2	101	34	(0)	RETURN	355	355	107	355	0
2222	OPT TECH	EXAM/TREATMENT ROOM OPTOMETRY	132	8	1056	6	2	106	35	(0)	RETURN	275	275	83	275	0
2223	OPT TECH	EXAM/TREATMENT ROOM OPTOMETRY	122	8	976	6	2	98	33	(0)	RETURN	329	330	99	330	0
2224	OPT TECH	EXAM/TREATMENT ROOM OPTOMETRY	136	8	1088	6	2	109	36	(0)	RETURN	327	330	99	330	0
2225	OPTIC SHOP	GIFT SHOP (RETAIL STORE)	323	8	2584	4	2	172	86	(0)	RETURN	522	525	158	525	0
2226	TOILET PUBLIC	TOILET-PUBLIC (INTERIOR)	55	8	440	10	N/A	73	N/A	(- -)	EXHAUST (G)	19	50	15	0	75
2227	TOILET PUBLIC	TOILET-PUBLIC (PERIMETER)	56	8	448	10	N/A	75	N/A	(- -)	EXHAUST (G)	100	100	30	0	150
2228	MECHANICAL ROOM	ALL HANDLING EQUIPMENT ROOM	623	8	4984	6	2	498	166	(0)	RETURN	350	555	167	555	0
2229	BREAK / LOCKERS	BREAK ROOM / STAFF LOUNGE	198	8	1584	4	2	106	53	(-)	EXHAUST (G)	298	300	90	0	345
TOTAL			4,593		36744			3444	1141			7250	7720	2316	7200	650

NOTES:
1. COORDINATED WITH VA DESIGN GUIDED 2024,CHAPTER 6: APPLICATIONS
2. ALL AIRFLOW RATES SHALL BE BALANCED WITHIN +/-10% IN ACCORDANCE WITH VA SPECIFICATION 23 05 93.

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

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05-15-2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director		Location: BIRMINGHAM VAMC	Drawing Number: M601
		Issue Date: 05/15/2026 / Checked: RH / Drawn: RR	

VA FORM 08-6231

AIR HANDLING UNIT SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN		LOCATION	TYPE OF SYSTEM	APPROX. OVERALL DIMENSIONS (IN.)			WEIGHT (LBS)	TOTAL O.A. (CFM)	SUPPLY FAN (DATA PER FAN)										CHW COOLING COIL											STEAM PREHEAT COIL								RETURN FAN (DATA PER FAN)									HUMIDIFIER	PRE FILTERS TYPE	FINAL FILTER TYPE	SINGLE POINT ELECTRICAL DATA					NOTES
	MANUFACTURER	MODEL			H	W	L			FAN QUANTITY	SUPPLY CFM	TSP (IN. WG)	ESP (IN. WG)	TYPE	FAN RPM	MOTOR BHP	MOTOR HP	MOTOR FLA	MOTOR PH	MOTOR VOLT	EAT DB/WB (°F)	LAT DB/WB (°F)	EWT (°F)	LWT (°F)	AIR P.D. (IN WG)	AIR VELOCITY (FPM)	TOTAL MBH	SENS. MBH	ROWS/ FPI	FLUID TYPE	FLUID P.D. (FT)	GPM	EAT DB (°F)	LAT DB (°F)	STEAM PRESSURE (PSI)	STEAM FLOW (LBS/HR)	SENS. MBH	AIR P.D. (IN)	ROWS/ FPI	FAN QUANTITY	RETURN CFM	TSP (IN. WG)	ESP (IN. WG)	TYPE	FAN RPM	MOTOR BHP	MOTOR HP	MOTOR FLA	MOTOR PH	MOTOR VOLT				V/Ph/Hz	FLA	MCA	MOCP	
AHU-101	YORK	XTI-96x78	MECHANICAL ROOM 2228	VAV	96	78	424	13,006	5,100	2	8,500	9.1	4.3	DIRECT	2,585	19.9	25	32.2	3	460	81/67	52.6/51.8	45	55	0.60	436	780	535	6/8	WATER	18.2	155.5	10	52.8	5	804	785	0.03	1/6	2	8,500	4.7	3.5	DIRECT	2,567	11.51	15.0	18.8	3	460	SEE CLEAN STEAM GENERATOR SCHEDULE	MERV 8 & MERV 11	MERV 14	460/3/60	102.1	110.1	125	1,2,3,4,5,6,7,8,9, 10,11,12,13,14,15,16

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. INTERNAL SPRING VIBRATION ISOLATORS FOR EACH FAN.
3. SAME END CHILLED WATER AND STEAM COIL CONNECTIONS.
4. PROVIDE CC UV LIGHT PANEL. PROVIDE 120V, 1Ph, 2.6 FLA, 15 MCA, 15 MOCP ELECTICAL CIRCUIT.
5. HINGED ACCESS DOORS AND MARINE LIGHTS AT EACH SECTION.
6. PRE-INSULATED STAINLESS STEEL DRAIN PAN.
7. PROVIDE WITH 6" BASERAIL.
8. PROVIDE FACTORY INSTALLED UNIT MOUNTED VFD FOR EACH FAN.
9. COORDINATE LEFT HANDED/RIGHT HANDED COIL CONNECTIONS WITH DESIGN DRAWINGS AND EXISTING FIELD CONDITIONS.
10. UNIT TO BE SHIPPED IN SECTIONS FOR ASSEMBLY IN FIELD.
11. MAGNEHELIC GAGES ACROSS EACH FILTER.
12. PROVIDE AIRFLOW MEASURING STATION AT THE OUTSIDE AIR.
13. TO SATISFY THE VA EPIDEMIC MODE REQUIREMENTS, THE UNIT SHALL BE CAPABLE OF ACCEPTING A MERV 16A AFTER FILTER DURING EMERGENCY CONDITIONS. FAN STATIC PRESSURE IS SIZED FOR THIS.
14. AHU SERVICE AND MAINTENANCE LOCATIONS HAVE BEEN COORDINATED WITH STRUCTURAL OPENINGS IN THE MECHANICAL ROOM WALL.
15. CONTRACTOR SHALL MEASURE EXISTING STEAM PRESSURE AVAILABLE AT THE RISER PRIOR TO ORDERING ANY STEAM CONTROL VALVES. PRESSURE TEST SHALL BE SUBMITTED TO THE A/E FOR REVIEW. ADJUST CONTROL VALVE SIZING AS NECESSARY TO ACCOMMODATE EXISTING PRESSURE.
16. CONTRACTOR SHALL COORDINATE REQUIRED BLANK SECTION WITH HUMIDIFIER MANIFOLD PROVIDED BY OTHERS PRIOR TO ORDERING EQUIPMENT. COORDINATE STEAM SUPPLY PRESSURES AMONG ALL EQUIPMENT.

EXHAUST FAN SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN		LOCATION	AREA SERVED	TYPE	DRIVE	WEIGHT (LBS)	CFM	SP (IN.)	MAXIMUM SONES	FAN RPM	BHP	MOTOR					CONTROL TYPE	NOTES
	MANUFACTURER	MODEL											HP	RPM	PHASE	VOLT			
EF-101	GREENHECK	SQ-90-VG	ROOM 2227 PLENUM	TOILETS 2226 & 2227	INLINE	DIRECT	36	225	0.5	7	1,468	0.05	1/10	1,725	1	120		BAS	1,2,3
EF-102	GREENHECK	USF-4	CANTEEN ROOF	GENERAL EXHAUST	UTILITY SET	DIRECT	103	555	1	12	1,784	0.15	1/2	1,770	3	460		BAS	1,2,3,4

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. PROVIDE THE FOLLOWING OPTIONS: DISCONNECT SWITCH, SPEED CONTROLLER, GRAVITY BACKDRAFT DAMPER, AND GALVANIZED BIRDSCREEN.
3. ALL FANS TO BE MOUNTED ON RAILS UNLESS OTHERWISE INDICATED. FANS INSTALLATION SHALLCOMPLY WITH ALL FEDERAL AND LOCAL SEISMIC REQUIREMENTS.
4. PROVIDE REMOTE MOUNTED COMBINATION STARTER FOR EF-102.

CLEAN STEAM GENERATOR SCHEDULE

EQUIPMENT TAG	SERVICE	AIRFLOW (CFM)	DESIRED AIR		STEAM GENERATION													STEAM DISPERSION								NOTES
			TEMPERATURE DB (°F)	MOISTURE CONTENT (° RH)	BASIS OF DESIGN		WATER CONDITIONS			STEAM PRESSURE (PSIG)	CAPACITY (LBS/HR)		VALVE SIZE (IN)	DIMENSIONS (IN)			WEIGHT (LBS)	ELECTRICAL			BASIS OF DESIGN	ABSORBTION DISTANCE MAX. (IN)	MANIFOLD DIMENSIONS (IN)			TUBE DIAMETER (IN)	TUBE SPACING ON CENTER (IN)	TUBE QTY.	WEIGHT (LBS)	
					MANUFACTURER	MODEL	MAKEUP FLUID	FLOW (GPM)	EWT (%DF)		DESIGN	UNIT MAX.		HEIGHT	WIDTH	LENGTH		FLA	VOLT/PH/HZ	MANUFACTURER	MODEL		HEIGHT	WIDTH	LENGTH					
CSG-101	AHU-101	17,000	70	40	DRISTEEM	STS800	REVERSE OSMOSIS	0.5	50	5	170	212	2	29.75	30.25	55.15	1450	3	120/1/60	DRISTEEM	ULTRA-SORB XV	6	50.75	57	7.2	1.5	12	4	78	1,2,3,4,5,6,7,8,9,10

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. PROVIDE AIR PROVING SWITCH, DUCT HUMIDITY TRANSMITTER, BACNET COMPATIBILITY.
3. PROVIDE INSULATED HEADER, 304 STAINLESS STEEL STEAM TUBE, MOUNTING FRAME, AND INLET KIT.
4. PROVIDE FULLY MODULATING, BUILT-IN FLOAT & THERMOSTATIC STEAM TRAP AND ELECTRIC ACTUATOR.
5. MINIMUM WATER SUPPLY PRESSURE: 25 PSI
6. STEAM TRAP, CONTROL VALVE AND AUTO DRAIN VALVE INTEGRAL TO THE UNIT.
7. PROVIDE DRAIN COOLER WITH THERMOSTATIC CONTROL.
8. PROVIDE COPPER OR STAINLESS STEEL PIPING FROM HUMIDIFIER TO AHU DISPERSION SECTION PER MANUFACTURER'S RECOMMENDATION.
9. ROUTE COPPER DRAIN PIPING TO THE NEAREST FLOOR DRAIN.
10. MODULATING HIGH LIMIT REQUIRED.
11. CONTRACTOR SHALL VERIFY EXISTING SUPPLY STEAM PRESSURE PRIOR TO ORDERING AND CONTACT THE VA COR AND A/E IF IT IS GREATER THAN 5PSI.

WALL LOUVER SCHEDULE

EQUIPMENT TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	SIZE (IN.)			CFM	FREE AREA VELOCITY (FPM)	P.D. (IN. W.G.)	WATER PENETRATION VELOCITY (FPM)	NOTES
						W	H	D					
LV-101	OPTIC SHOP 2225	EF-101	RUSKIN	ELF15J	EXTRUDED ALUMINUM DRAINABLE	18	8	1-1/2	225	718	0.1	N/A	1,2,3,4,5
LV-102	MECHANICAL 2228	AHU-101 INTAKE	RUSKIN	EME520DD	WIND DRIVEN	44	92	5	8850	639	0.08	1250	1,2,3,4,5

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. PROVIDE GALVANIZED BIRD/INSECT SCREEN.
3. COLOR AND FINISH TO BE SELECTED BY ARCHITECT.
4. WATER PENETRATION VELOCITY IF BASED ON 0.01 OUNCES/SQ.FT. WITH A 48"X48" LOUVER AND A TEST PERIOD OF 15 MIN.
5. LOUVERS SHALL BE AMCA CERTIFIED.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	TYPE	NOMINAL FACE SIZE	MATERIAL	MAX. N.C.	NOTES
A	TITUS	OMNI	SQUARE PANEL FACE	24"x24"	STEEL	25	1,2
B	TITUS	350F	35 DEG. DEFLECTION REGISTER	VARIES	ALUMINUM	25	1,2,3
C	TITUS	PAS	PERFORATED FLUSH FACE	VARIES	STEEL	25	1,2,3

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. FINISH AS SELECTED BY ARCHITECT.
3. 1/2"x1/2"x1/2" GRID WITH 45 DEGREE BLADES.

VAV BOX WITH HOT WATER REHEAT SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)		APPROX. DIMENSIONS (IN.)				HOT WATER REHEAT COIL						NOISE LEVEL(NC)		INTEGRAL SOUND ATTENUATOR	NOTES
			MIN.	MAX.	INLET SIZE	OUTLET SIZE	H	L	W	HEATING CFM	CAPACITY (MBH)	EAT (°F)	LAT (°F)	EWT (°F)	GPM	ROWS	RADIATED	DISCHARGE		
VAV-2200A	TITUS	DESV	456	830	10	14x12.5	12.5	15.5	14.0	830	18.0	55	75	180	1.5	1	23	25	NO	1,2,3,4,5,6,7,8
VAV-2200B	TITUS	DESV	349	635	8	12x10	10.0	15.5	12.0	635	14.0	55	75	180	1.4	1	22	28	NO	1,2,3,4,5,6,7,8
VAV-2202	TITUS	DESV	289	525	8	12x10	10.0	15.5	12.0	525	12.0	55	76	180	0.9	1	20	27	NO	1,2,3,4,5,6,7,8
VAV-2203	TITUS	DESV	55	100	6	12x8	8.0	15.5	12.0	100	4.0	55	92	180	0.5	1	-	13	NO	1,2,3,4,5,6,7,8
VAV-2209	TITUS	DESV	173	315	6	12x8	8.0	15.5	12.0	315	13.7	55	95	180	0.9	2	20	22	NO	1,2,3,4,5,6,7,8
VAV-2210	TITUS	DESV	344	625	8	12x10	10.0	15.5	12.0	625	13.5	55	75	180	1.2	1	22	28	NO	1,2,3,4,5,6,7,8
VAV-2212	TITUS	DESV	160	290	6	12x8	8.0	15.5	12.0	290	8.0	55	81	180	0.8	1	18	25	NO	1,2,3,4,5,6,7,8
VAV-2214	TITUS	DESV	226	410	6	12x8	8.0	15.5	12.0	410	8.9	55	75	180	0.7	1	24	25	NO	1,2,3,4,5,6,7,8
VAV-2216	TITUS	DESV	446	810	10	14x12.5	12.5	15.5	14.0	810	17.6	55	75	180	1.4	1	23	25	NO	1,2,3,4,5,6,7,8
VAV-2217	TITUS	DESV	190	345	6	12x8	8.0	15.5	12.0	345	7.5	55	75	180	0.5	1	21	24	NO	1,2,3,4,5,6,7,8
VAV-2218	TITUS	DESV	316	575	8	12x10	10.0	15.5	12.0	575	12.5	55	75	180	0.9	1	22	28	NO	1,2,3,4,5,6,7,8
VAV-2219	TITUS	DESV	168	305	6	12x8	8.0	15.5	12.0	305	6.6	55	75	180	0.5	1	20	23	NO	1,2,3,4,5,6,7,8
VAV-2220	TITUS	DESV	371	675	8	12x10	10.0	15.5	12.0	675	14.6	55	75	180	1.7	1	23	29	NO	1,2,3,4,5,6,7,8
VAV-2222	TITUS	DESV	514	935	10	14x12.5	12.5	15.5	14.0	935	20.3	55	75	180	2.3	1	23	27	NO	1,2,3,4,5,6,7,8
VAV-2225	TITUS	DESV	528	960	10	14x12.5	12.5	15.5	14.0	960	20.8	55	75	180	2.6	1	23	27	NO	1,2,3,4,5,6,7,8
VAV-2228	TITUS	DESV	305	600	8	12x10	10.0	15.5	12.0	600	13.0	55	75	180	1.1	1	22	28	NO	1,2,3,4,5,6,7,8
VAV-2229	TITUS	DESV	280	510	8	12x10	10.0	15.5	12.0	510	11.1	55	75	180	0.7	1	20	27	NO	1,2,3,4,5,6,7,8
VAV-2801	TITUS	DESV	85	155	6	12x8	8.0	15.5	12.0	155	4.8	55	84	180	0.5	1	11	18	NO	1,2,3,4,5,6,7,8
VAV-2802	TITUS	DESV	443	805	10	14x12.5	12.5	15.5	14.0	805	17.5	55	75	180	1.4	1	23	25	NO	1,2,3,4,5,6,7,8
VAV-2804	TITUS	DESV	170	310	6	12x8	8.0	15.5	12.0	310	6.7	55	75	180	0.5	1	20	23	NO	1,2,3,4,5,6,7,8
VAV-2805	TITUS	DESV	258	470	8	12x10	10.0	15.5	12.0	470	10.2	55	75	180	0.6	1	19	27	NO	1,2,3,4,5,6,7,8
VAV-2807	TITUS	DESV	220	400	6	12x8	8.0	15.5	12.0	400	8.7	55	75	180	0.7	1	23	25	NO	1,2,3,4,5,6,7,8
VAV-2809	TITUS	DESV	344	625	8	12x10	10.0	15.5	12.0	625	13.6	55	75	180	1.2	1	22	28	NO	1,2,3,4,5,6,7,8
VAV-2813	TITUS	DESV	300	545	8	12x10	10.0	15.5	12.0	545	11.8	55	75	180	0.8	1	20	28	NO	1,2,3,4,5,6,7,8
VAV-2815	TITUS	DESV	300	545	8	12x10	10.0	15.5	12.0	545	11.8	55	75	180	0.8	1	20	28	NO	1,2,3,4,5,6,7,8
VAV-2820	TITUS	DESV	88	160	6	12x8	8.0	15.5	12.0	160	4.8	55	83	180	0.5	1	11	19	NO	1,2,3,4,5,6,7,8
VAV-2822	TITUS	DESV	182	330	6	12x8	8.0	15.5	12.0	330	7.2	55	75	180	0.5	1	21	23	NO	1,2,3,4,5,6,7,8
VAV-2823	TITUS	DESV	91	165	6	12x8	8.0	15.5	12.0	165	4.9	55	82	180	0.5	1	11	19	NO	1,2,3,4,5,6,7,8
VAV-2825	TITUS	DESV	314	570	8	12x10	10.0	15.5	12.0	570	12.4	55	75	180	0.9	1	22	28	NO	1,2,3,4,5,6,7,8
VAV-2826	TITUS	DESV	110	200	6	12x8	8.0	15.5	12.0	200	5.2	55	79	180	0.5	1	14	22	NO	1,2,3,4,5,6,7,8
VAV-275R	TITUS	DESV	231	420	8	12x10	10.0	15.5	12.0	420	9.1	55	75	180	0.5	1	18	25	NO	1,2,3,4,5,6,7,8
VAV-276R	TITUS	DESV	333	605	8	12x10	10.0	15.5	12.0	605	13.1	55	75	180	1.1	1	22	28	NO	1,2,3,4,5,6,7,8
VAV-280R	TITUS	DESV	165	300	6	12x8	8.0	15.5	12.0	300	6.5	55	75	180	0.5	1	20	22	NO	1,2,3,4,5,6,7,8

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: VA APPROVED EQUAL
2. SOUND LEVELS (NC) AST FULL AIR FLOW WITH 0.75" INLET STATIC PRESSURE AND 0.5" DISCHARGE PRESSURE. NOISE CRITERIA (NC) SOUND INFORMATION IS BASED ON ARI-880-98.
3. REGARDLESS OF HOT WATER COIL AIR PRESSURE DROP, AVAILABLE DISCHARGE STATIC PRESSURE SHALL NOT BE LESS THAN 0.25" AT AIR FLOW RATE SCHEDULED.
4. HOT WATER COIL WATER PRESSURE DROP SHALL NOT EXCEED 5' AND AIR PRESSURE DROP SHALL NOT EXCEED 0.3" WG.
5. VAV MANUFACTURER TO MOUNT IN FACTORY THE DDC CARD/CONTROLLER AND DAMPER ACTUATOR FURNISHED BY THE T.C. CONTRACTOR. BOXES SHALL NOT BE RELEASED FOR PRODUCTION UNTIL BOX MANUFACTURER HAS COORDINATED WITH T.C. CONTRACTOR.
6. PROVIDE WITH ACCESS DOORS FOR REHEAT COIL AND FACTORY MOUNTED DISCONNECT.
7. COORDINATE LEFT HANDED/RIGHT HANDED COIL CONNECTIONS WITH DESIGN DRAWINGS AND EXISTING FIELD CONDITIONS
8. PROVIDE NECESSARY 120V / 24V POWER SUPPLY FOR CONTROLLER POWER. COORDINATE WITH ELECTRICAL DRAWINGS FOR QUANTITY AND LOCATION.

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
65% DESIGN DEVELOPMENT SUBMITTAL	**09/08/2025**
Revisions:	**Date:**

CONSULTANT

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Bancroft Project No. 23-135

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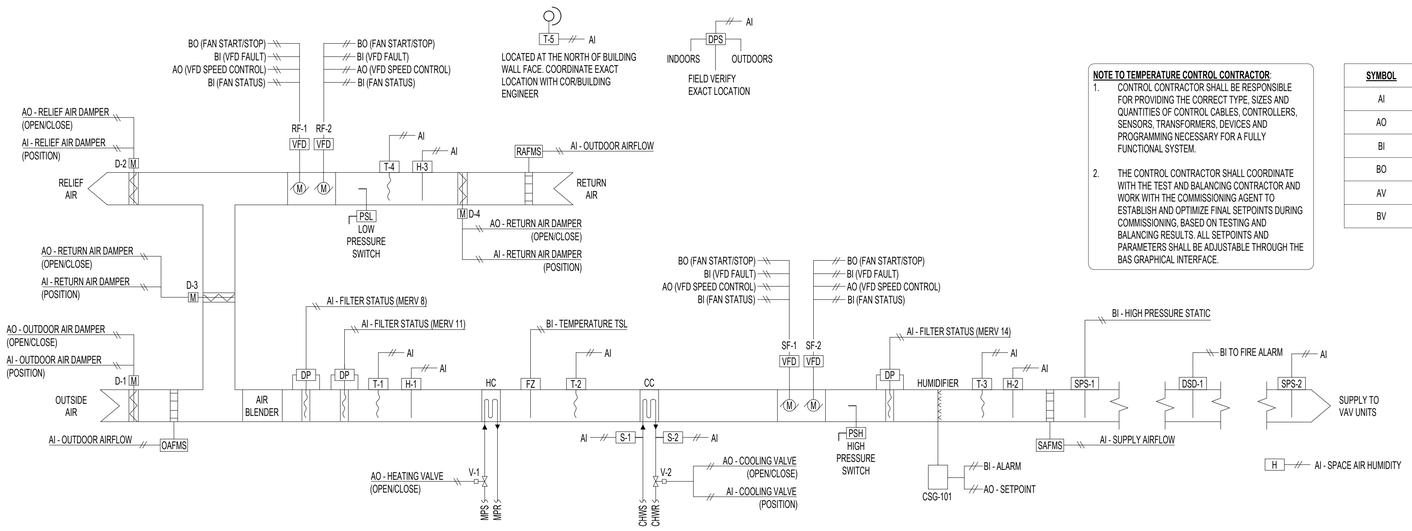
LICENSED PROFESSIONAL ENGINEER — RAED HAMD 082.005048 — 05-15-2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL SCHEDULES
Approved: Project Director	
Phase	ISSUED FOR BID
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Location	BIRMINGHAM VAMC
Issue Date	05/15/2026
Checked	RH
Drawn	RR
Project Number	521-24-102
Building Number	#1
Drawing Number	M602

VA FORM 08-6231



NOTE TO TEMPERATURE CONTROL CONTRACTOR:

1. CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE CORRECT TYPE, SIZES AND QUANTITIES OF CONTROL CABLES, CONTROLLERS, SENSORS, TRANSFORMERS, DEVICES AND PROGRAMMING NECESSARY FOR A FULLY FUNCTIONAL SYSTEM.
2. THE CONTROL CONTRACTOR SHALL COORDINATE WITH THE TEST AND BALANCING CONTRACTOR AND WORK WITH THE COMMISSIONING AGENT TO ESTABLISH AND OPTIMIZE FINAL SETPOINTS DURING COMMISSIONING, BASED ON TESTING AND BALANCING RESULTS. ALL SETPOINTS AND PARAMETERS SHALL BE ADJUSTABLE THROUGH THE BAS GRAPHICAL INTERFACE.

CONTROLS SYMBOLS

SYMBOL	DESCRIPTION
AI	ANALOG INPUT
AO	ANALOG OUTPUT
BI	BINARY INPUT
BO	BINARY OUTPUT
AV	ANALOG VALUE
BV	BINARY VALUE

SYMBOL	DESCRIPTION
	CONTROL VALVE
	COOLING COIL
M	MOTORIZED DAMPER (SPRING RETURN)
M	MOTOR (FAN)
	PUMP
	TRANSMITTER
	TRANSMITTER, AVERAGING ELEMENT

CONTROL SYMBOL LIST

SYMBOL	DESCRIPTION
ADJ	ADJUSTABLE
AFMS	AIRFLOW MEASURING STATION
BAS	BUILDING AUTOMATION SYSTEM
CT	CONTROLLER
DP	DIFFERENTIAL PRESSURE
DSD	DUCT SMOKE DETECTOR
FZ	FREEZESTAT
EP	POWER WIRING
H	HUMIDITY SENSOR
HOA	HAND-OFF-AUTO
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
SPS	STATIC PRESSURE SENSOR
T	TEMPERATURE SENSOR
TSL	TEMPERATURE SWITCH, LOW (FREEZESTAT)
VFD	VARIABLE FREQUENCY DRIVE

SEQUENCE OF OPERATION: AHU-101

RUN CONDITIONS - CONTINUOUS
THE UNIT SHALL RUN CONTINUOUSLY.

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER NORMAL, COOLING, HUMIDIFICATION AND ECONOMIZER MODES. THE BAS SHALL ALSO SEND THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE DUCT STATIC PRESSURE SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

GENERAL
UNIT IS NORMALLY STARTED AND STOPPED REMOTELY AT THE DDC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE. WHEN THE UNIT IS "OFF" DAMPERS D-1 SHALL BE FULLY CLOSED. WHEN THE UNIT IS "ON" D-1 SHALL OPEN.

NORMAL MODE:
THE SUPPLY FANS SHALL RUN AND THE MOTORIZED DAMPERS (D-1, D-2, D-3, AND D-4) SHALL OPEN. MOTORIZED DAMPER (D-5) SHALL CLOSE. THE CHILLED WATER VALVE SHALL BE CONTROLLED TO MAINTAIN THE ACTIVE DISCHARGE AIR TEMPERATURE SETPOINT.
- ECONOMIZER MODE IS DE-ACTIVATED.

HIGH STATIC SHUTDOWN
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL.

OUTDOOR AIR DAMPERS
THE OUTDOOR AIR DAMPER D-1 SHALL PARTIALLY OPEN TO MINIMUM OUTDOOR AIR SETPOINT WHEN THE UNIT RUNS IN "NORMAL" MODE. DAMPER D-1 SHALL CLOSE ANYTIME THE UNIT STOPS. THE SUPPLY FAN SHALL START ONLY AFTER THE DAMPER STATUS OF D-1 HAS PROVEN THE DAMPER IS OPEN. THE OUTDOOR AIR DAMPER D-1 SHALL CLOSE 5 SEC (ADJ.) AFTER THE SUPPLY FAN STOPS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- OUTDOOR AIR DAMPER FAILURE: COMMAND OPEN, BUT THE STATUS IS CLOSED.
- OUTDOOR AIR DAMPER IN HAND: COMMAND CLOSED, BUT THE STATUS IS OPEN.

OUTDOOR AIR DAMPER VENTILATION
THE CONTROLLER SHALL OPEN THE OUTDOOR AIR DAMPER D-1 WHENEVER THE UNIT IS ACTIVATED TO RUN. THE AIR FLOW MEASURING DEVICE IS TO MEASURE THE OUTDOOR AIR CFM OF THE AIR HANDLING UNIT.

SUPPLY AIR DUCT STATIC PRESSURE CONTROL
THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND SHALL MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT OF 1.5 IN H2O (ADJ.). THE SUPPLY FAN VFD SPEED SHALL NOT DROP BELOW 30% (ADJ.).

THE STATIC PRESSURE SETPOINT SHALL BE RESET BASED UPON THE POSITION OF THE ZONE DAMPERS, WITH A GOAL OF KEEPING THE STATIC PRESSURE UNTIL AT LEAST ONE ZONE DAMPER IS NEARLY WIDE OPEN. THE CONTROLLER SHALL UTILIZE THE OUTPUT SIGNAL FROM ALL SUPPLY DAMPER POSITIONS TO RESET THE SUPPLY DUCT STATIC PRESSURE SETPOINT AS REQUIRED TO MAINTAIN AT LEAST ONE SUPPLY DAMPER 90% (ADJ.) OPEN.
THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.5 IN H2O (ADJ.). IF NO ZONE DAMPER IS NEARLY WIDE OPEN, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 1.0 IN H2O (ADJ.) .AS ONE OR MORE DAMPERS NEARS THE WIDE OPEN POSITION, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 1.5 IN H2O (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS GREATER THAN 2.0 IN H2O (ADJ.) SETPOINT.
- LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS LESS THAN 0.7 IN H2O (ADJ.) SETPOINT.
- SUPPLY FAN VFD FAULT

IF THE SUPPLY FAN FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FAN SHALL BE COMMANDED OFF, THE OUTDOOR AIR DAMPER SHALL CLOSE, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET SHALL BE REQUIRED TO RESTART THE FAN. A HARDWIRED, HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE VARIABLE SPEED DRIVE. IF THE HIGH STATIC PRESSURE CUT-OFF SWITCH IS TRIPPED THE FAN SHALL BE COMMANDED OFF, THE OUTDOOR AIR DAMPER SHALL CLOSE, COOLING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET OF THE HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE REQUIRED TO RESTART THE FAN.

SUPPLY AIR TEMPERATURE
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

SUPPLY AIR SMOKE DETECTION
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

RETURN FAN CONTROL
THE RETURN FAN SHALL RUN WHENEVER THE SUPPLY FAN RUNS DURING "NORMAL" MODE. THE RETURN FANS SPEED WILL BE MODULATED BASED ON SUPPLY FLOW VOLUME MATCHING. SUPPLY AIRFLOW MINUS RETURN AIRFLOW SHALL EQUAL THE DIFFERENTIAL AIRFLOW. THE RETURN FAN VFD WILL BE MODULATED TO MAINTAIN THE DIFFERENTIAL SETPOINTS

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- RETURN FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF
- RETURN FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON
- RETURN RAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ)
- RETURN FAN VFD FAULT

AIR FLOW MEASURING STATION:
THE CONTROLLER SHALL MONITOR ALL THE AIR FLOW MEASURING STATION TO CONTROL AND MODULATED THE SUPPLY AND RETURN FAN VFD TO MAINTAIN THE REQUIRED AIRFLOWS.

STEAM PREHEATING COIL VALVES
THE CONTROLLER SHALL MODULATE THE STEAM PREHEAT COIL STEAM VALVE TO MAINTAIN THE DISCHARGE AIR SETPOINT.

THE PREHEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ECONOMIZER (IF PRESENT) IS DISABLED.
- AND THE HEATING IS ACTIVE.
- AND COOLING IS NOT ACTIVE.
- AND THE SUPPLY FAN STATUS IS ON.

THE PREHEATING COIL STEAM VALVE SHALL OPEN FOR FREEZE PROTECTION WHENEVER:
- MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.)
- OR THE FREEZESTAT IS ON.

THE FACE & BYPASS DAMPER SHALL FORCE ALL AIRFLOW THROUGH THE FACE WHEN THE MIXED AIR TEMPERATURE IS LESS THAN 35°F, BYPASS CLOSES.

COOLING COIL VALVE
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS COOLING SETPOINT.

THE COOLING SHALL BE ENABLED WHEN ALL THE FOLLOWING AT MET:
- OUTDOOR AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- THE SUPPLY AIR TEMPERATURE IS ABOVE COOLING SETPOINT.
- THE FAN STATUS IS ON.

FREEZE PROTECTION
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECIEVING A FREEZESTAT STATUS.

A HARDWIRED, LOW LIMIT TEMPERATURE SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE VARIABLE SPEED DRIVE. IF THE LOW LIMIT TEMPERATURE SWITCH IS TRIPPED (35.0°F ADJ.), THE SUPPLY FAN SHALL BE DISABLED, THE OUTDOOR AIR DAMPER SHALL CLOSE, CHILLED WATER VALVES SHALL OPEN TO 100% AND AN ALARM SHALL BE ANNUNCIATED AT THE BAS. A MANUAL RESET OF THE LOW LIMIT TEMPERATURE SWITCH SHALL BE REQUIRED TO RESTART THE FAN.

FILTER STATUS
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER(S) WHEN THE FAN IS RUNNING.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- PRE-FILTER CHANGE REQUIRED: PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
- FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

ECONOMIZER CYCLE
PROVIDE THE UNIT WITH AN ECONOMIZER CYCLE: OPERATION SHALL BE SUCH THAT WHEN:
- THE OUTDOOR AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE, THE ECONOMIZER IS ENABLED (DISABLE ECONOMIZER WHEN OUTDOOR AIR TEMPERATURE IS GREATER THAN RETURN AIR TEMPERATURES BY 1°F (ADJ.) AND OA-T< 60°F (ADJ.) AND THE SUPPLY FAN STATUS IS ON.
- THE ECONOMIZER SHALL BE DISABLED ANYTIME THE MIXED AIR TEMPERATURE DROPS LESS THAN 40°F (ADJ.) OR THE FREEZESTAT IS ACTIVATED.

HUMIDIFIER CONTROL:
THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND MODULATE THE HUMIDIFIER TO MAINTAIN A SETPOINT OF 40% RH (ADJ.). THE HUMIDIFIER SHALL BE ENABLED WHENEVER THE SUPPLY FAN STATUS IS ON.

THE HUMIDIFIER SHALL TURN OFF WHENEVER:
- SUPPLY AIR HUMIDITY RISES FROM 90% RH TO 95% RH (ADJ.)
- LOSS OF SUPPLY FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS GREATER THAN 90% RH (ADJ.)
- LOW SUPPLY AIR HUMIDITY: IF THE SUPPLY AIR HUMIDITY IS LESS THAN 25% RH (ADJ.).

HUMIDIFICATION SHALL BE ENABLED WHEN DEHUMIDIFICATION IS DISABLED, START UP DELAY HAS TERMINATED AND HUMIDITY IS BELOW SETPOINT. THE HIGH LIMIT HUMIDISTAT SHALL BE LOCATED DOWNSTREAM FROM THE HUMIDIFIER SHALL OVERRIDE THE HUMIDIFIER CONTROL TO PREVENT LOCAL SATURATION AT THE POINT OF STEAM INSTRUCTION. HUMIDIFICATION SHALL BE DISABLED WHEN THE HUMIDITY RISES ABOVE THE SETPOINT PLUS THE DEADBAND.

DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY WHENEVER THE SPACE HUMIDITY EXCEEDS THE SETPOINT OF 60%RH (ADJ). THE CONTROLLER WILL OVERRIDE THE COOLING SEQUENCE TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 55%RH (ADJ). THE COOLING COIL TO PROVIDE MAXIMUM COOLING DOWN TO A MINIMUM COIL LEAVING TEMPERATURE OF 52°F(ADJ).

CONSTANT SPEED OPERATION
UPON FAILURE OF THE VFD, THE SUPPLY AND RETURN FANS SHALL BE STARTED/STOPPED MANUALLY AT THE DDC THROUGH THE BY-PASS STARTER. FANS SHALL THEN BE OPERATED AT CONSTANT SPEED.

ALL VAV BOXES WILL BE INDEXED TO MAXIMUM FLOW TO ACCOMMODATE THE MAXIMUM SUPPLY FAN FLOW.

AUTOMATIC SHUTDOWN / RESTART
WHEN SMOKE IS DETECTED BY DUCT SMOKE DETECTOR, DSD, THE SUPPLY FANS SHALL SHUT "OFF" AND AN ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE-ALARM SYSTEM. ALL SMOKE DAMPERS IN THE SUPPLY AND RETURN DUCTS SHALL CLOSE. (HARDWIRE INTERLOCK FROM FIRE RELAY AND THE VFD SAFETY CIRCUIT.)

SUPPLY FANS SHALL RESTART AND SMOKE DAMPERS SHALL OPEN WHEN FIRE ALARM CIRCUIT IS RESET.

ALARMS
PROVIDE ALARMS FOR THE FOLLOWING:
- SUPPLY / EXHAUST FAN(S) VFD FAULT
- SUPPLY / EXHAUST FAN(S) FAILURE (COMMANDED "ON" BUT THE STATUS IS "OFF")
- SUPPLY / EXHAUST FAN(S) RUNNING IN HAND (COMMANDED "OFF" BUT THE STATUS IS "ON"
- HIGHER PRE-FILTER / FINAL FILTER DIFFERENTIAL STATIC PRESSURES.

ON A RISE IN SUPPLY AIR TEMPERATURE ABOVE (54°F PLUS 1.5°F DEADBAND, ADJ.), THE CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN SETPOINT. ON A FALL IN SUPPLY AIR TEMPERATURE BELOW 54°F (MINUS 1.5°F DEADBAND, ADJ.), THE CHILLED WATER VALVE SHALL CLOSE. ON A RISE IN SUPPLY AIR TEMPERATURE ABOVE SETPOINT FOR GREATER THAN 5 MINUTES, AN ALARM SHALL BE SIGNALED TO THE DDC SYSTEM.

BUILDING STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MONITOR BUILDING STATIC PRESSURE USING A DIFFERENTIAL PRESSURE SENSOR AND MODULATE THE RETURN/EXHAUST FAN VFD SPEED TO MAINTAIN A BUILDING PRESSURE SETPOINT BETWEEN +0.02 AND +0.05 IN. W.G. (ADJUSTABLE). THE RETURN/EXHAUST FAN VFD SPEED SHALL NOT DROP BELOW 20% (ADJ.).

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL MONITOR AIRFLOW USING THE DEDICATED AIRFLOW MEASURING STATIONS (AFMS) INSTALLED IN THE OUTSIDE AIR (OA), SUPPLY AIR (SA), AND EXHAUST AIR (EA) DUCTS. THE SYSTEM SHALL USE THIS DATA TO MAINTAIN A POSITIVE BUILDING STATIC PRESSURE SETPOINT AND ENSURE REQUIRED VENTILATION AIRFLOW RATES.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25%(ADJ.) GREATER THAN SETPOINT.
- LOW BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25%(ADJ.) LESS THAN SETPOINT.

AIR HANDLING UNIT (AHU-101) POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
OA AIRFLOW MEASURING STATION, OAFMS	X							X		X
SUPPLY AIRFLOW MEASURING STATION, SAFMS	X							X		X
RETURN AIRFLOW MEASURING STATION, RAFMS	X							X		X
MIXED AIR HUMIDITY, H-1	X							X		X
SUPPLY AIR HUMIDITY, H-2	X							X		X
RETURN AIR HUMIDITY, H-3	X							X		X
OUTDOOR AIR DAMPER POSITION, D-1	X							X		X
RELIEF AIR DAMPER POSITION, D-2	X							X		X
RETURN AIR DAMPER POSITION, D-3	X							X		X
RETURN AIR DAMPER POSITION, D-4	X							X		X
PRE-FILTER DIFF. PRESSURE (MERV 8)	X							X		X
PRE-FILTER DIFF. PRESSURE (MERV 11)	X							X		X
FINAL FILTER DIFF. PRESSURE (MERV 14)	X							X		X
CHILLED WATER CONTROL VALVE POSITION, V-2	X							X		X
CHILLED WATER SUPPLY TEMPERATURE (S-1)	X							X		X
CHILLED WATER RETURN TEMPERATURE (S-2)	X							X		X
SUPPLY AIR STATIC PRESSURE, SPS-2	X							X	X	X
MIXED AIR TEMPERATURE, T-1	X							X	X	X
HEATING AIR TEMPERATURE, T-2	X							X	X	X
SUPPLY AIR TEMPERATURE, T-3	X							X	X	X
RETURN AIR TEMPERATURE, T-4	X							X	X	X
SUPPLY FAN VFD SPEED CONTROL (TYP. OF 2)		X						X		X
RETURN FAN VFD SPEED CONTROL (TYP. OF 2)		X						X		X
SUPPLY FAN DAMPER ACTUATOR (TYP. OF 2)		X						X		X
OUTSIDE AIR DEW POINT TEMPERATURE, T-4 (NETWORK)	X				X			X		X

POINTS LIST CONTINUED ON SHEET M702

REVIEW ONLY - NOT FOR CONSTRUCTION

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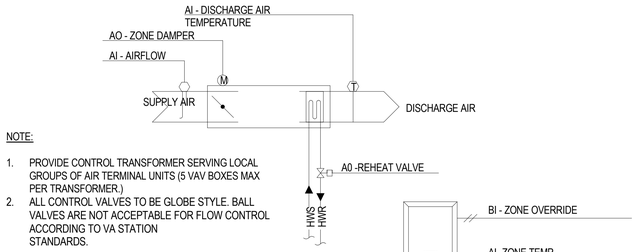
05-15-2026

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

Drawing Title: MECHANICAL CONTROLS
Phase: ISSUED FOR BID
Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Project Number: 521-24-102
Building Number: #1
Approved: Project Director
Location: BIRMINGHAM VAMC
Issue Date: 05/15/2026
Checked: RH
Drawn: RR
Drawing Number: M701

AIR HANDLING UNIT (AHU-101) POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
OUTDOOR AIR DAMPER (OPEN/CLOSE), D-1		X						X		X
RELIEF AIR DAMPER (OPEN/CLOSE), D-2		X						X		X
RETURN AIR DAMPER (OPEN/CLOSE), D-3		X						X		X
RETURN AIR DAMPER (OPEN/CLOSE), D-4		X						X		X
STEAM VALVE VALVE POSITION (OPEN/CLOSE), V-1		X						X		X
CHILLED WATER VALVE POSITION (OPEN/CLOSE), V-2		X						X		X
CLEAN STEAM GENERATOR CSG-101 SETPOINT		X						X		X
SUPPLY FAN STATUS (TYP. OF 2)			X					X		X
RETURN FAN STATUS (TYP. OF 2)			X					X		X
SUPPLY FAN VFD FAULT (TYP. OF 2)			X						X	
HIGH SUPPLY PRESSURE SAFETY, SPS-1			X					X	X	X
SUPPLY DUCT SMOKE DETECTOR, DSD-1			X					X	X	X
FREEZE PROTECTION, FZ			X						X	
CLEAN STEAM GENERATOR CSG-101 ALARM			X						X	
SUPPLY FAN START/STOP (TYP. OF 2)				X			X	X	X	X
RETURN FAN START/STOP (TYP. OF 2)				X			X	X	X	X
SUPPLY AIR TEMPERATURE SET POINT					X			X		X
OUTDOOR AIRFLOW SET POINT, D-1					X			X		X
RELIEF AIRFLOW SET POINT, D-2					X			X		X
RELIEF AIRFLOW SET POINT, D-3					X			X		X
FILTER DIFF. PRESSURE ALARM SET POINT					X			X		X
BUILDING STATIC PRESSURE SET POINT					X			X		X
DEHUMIDIFICATION SETPOINT					X			X		X
SUPPLY FAN VFD HOA STATUS (TYP. OF 2)						X		X		X
SCHEDULE							X			
HIGH SUPPLY AIR STATIC PRESSURE, SPS-1									X	
HIGH SUPPLY AIR TEMPERATURE, T-3									X	
HIGH MIXED AIR TEMPERATURE, T-1									X	
HIGH RETURN AIR TEMPERATURE, T-4									X	
HIGH RETURN AIR HUMIDITY, H-3									X	
LOW SUPPLY AIR STATIC PRESSURE, SPS-1									X	
LOW SUPPLY AIR TEMPERATURE, T-3									X	
LOW MIXED AIR TEMPERATURE, T-1									X	
LOW RETURN AIR TEMPERATURE, T-4									X	
LOW RETURN AIR HUMIDITY, H-3									X	
SUPPLY FAN FAILURE (TYP. OF 2)									X	
RETURN FAN FAILURE (TYP. OF 2)									X	
SUPPLY FAN IN HAND (TYP. OF 2)									X	
RETURN FAN IN HAND (TYP. OF 2)									X	



NOTE:

1. PROVIDE CONTROL TRANSFORMER SERVING LOCAL GROUPS OF AIR TERMINAL UNITS (5 VAV BOXES MAX PER TRANSFORMER.)
2. ALL CONTROL VALVES TO BE GLOBE STYLE. BALL VALVES ARE NOT ACCEPTABLE FOR FLOW CONTROL ACCORDING TO VA STATION STANDARDS.

1 VARIABLE TERMINAL AIR BOX
NTS

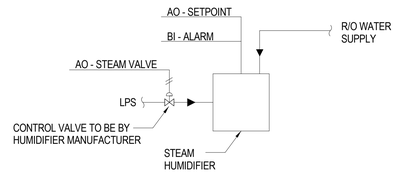
SEQUENCE OF OPERATION
VARIABLE TERMINAL AIR BOX

1. GENERAL
   A. THE VARIABLE TERMINAL AIR BOX SHALL ACCORDING TO USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
2. TEMPERATURE CONTROL
   A. OCCUPIED MODE: THE UNIT SHALL MAINTAIN
      a. A 75°F (ADJ) COOLING SETPOINT
      b. A 72°F (ADJ) HEATING SETPOINT
   B. UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
      a. A 85°F (ADJ) COOLING SETPOINT
      b. A 65°F (ADJ) HEATING SETPOINT
   C. THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

1. OCCUPIED:
   a. WHEN THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ) AND THE MAXIMUM COOLING AIRFLOW (ADJ) UNTIL THE ZONE IS SATISFIED.
   b. WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM ZONE AIRFLOW (ADJ).
   c. WHEN THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING VALVE AND THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM AND MAXIMUM HEATING CFM TO MAINTAIN THE ZONE TEMPERATURE AT THE HEATING SETPOINT.
2. UNOCCUPIED:
   a. WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJ). WHEN THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ) AND THE MAXIMUM COOLING AIRFLOW (ADJ) UNTIL THE ZONE IS SATISFIED.
   b. WHEN THE ZONE TEMPERATURE IS LESS THAN ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ) AND THE HEATING AIRFLOW (ADJ) UNTIL THE ZONE IS SATISFIED.
3. ZONE OPTIMAL START
   A. THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

VARIABLE TERMINAL AIR BOX POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
ZONE TEMPERATURE SETPOINT	X							X	X	X
ZONE SETPOINT ADJUST	X									X
AIRFLOW	X							X		X
AIRFLOW MAXIMUM					X					X
AIRFLOW MINIMUM					X					X
HOT WATER HEATING VALVE		X						X		X
ZONE DAMPER		X								X
AIRFLOW SETPOINT					X			X		X
HEATING/COOLING MODE						X		X		
SCHEDULE OCCUPANCY						X	X			
HEATING SETPOINT OCCUPIED					X			X		X
COOLING SETPOINT OCCUPIED					X			X		X
HEATING SETPOINT UNOCCUPIED					X			X		X
COOLING SETPOINT UNOCCUPIED					X			X		X



3 HUMIDIFER CONTROL DIAGRAM
NTS

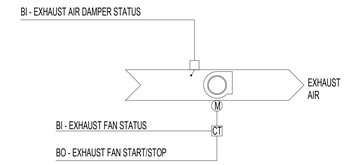
SEQUENCE OF OPERATION: HUMIDIFIER
OPERATION OF STEAM HUMIDIFIER SHALL BE CONTROLLED BY MANUFACTURER SUPPLIED CONTROL PANEL. BAS SHALL PROVIDE HUMIDIFIER SET POINT. REFER TO AHU SEQUENCE OF OPERATION FOR ADDITIONAL CONTROL REQUIREMENT.

GENERAL
- WHEN THE SYSTEM IS FIRST ACTIVATED THE FILL VALVE (INTERIOR TO THE UNIT) SHALL OPEN AND FILL THE CAMBER WITH DOMESTIC COLD WATER TO THE OPERATING LEVEL.
- UNIT MOUNTED CONTROLLER SHALL CONTROL ALL HUMIDIFIER FUNCTIONS AND SHALL BE INTERLOCKED TO BUILDING AUTOMATION SYSTEM VIA BACNET.
- WATER LEVEL CONTROL SHALL BE ACCOMPLISHED USING A FLOAT VALVE AND LOW WATER CUT OFF SWITCH.
- HUMIDIFIER SHALL HAVE ELECTRIC DRAIN TO ENABLE AUTOMATED END OF SEASON DRAINING.
- THE SKIMMER PORT ON THE HEAT EXCHANGER SHALL FUNCTION ON AS AN OVERFLOW PART.

ALARM
BAS SHALL MONITOR ALARM CONTACTS PROVIDED BY THE CONTROLLER.
- PRIMARY LOW WATER
- HIGH PRESSURE
- HIGH WATER ALARM

HUMIDIFIER POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
RETURN AIR HUMIDITY	X							X		X
HIGH HUMIDITY			X						X	
SETPOINT		X						X		X
ALARM									X	X
LOW WATER LEVEL									X	
HIGH WATER LEVEL									X	
HIGH PRESSURE									X	



2 EXHAUST AIR CONTROL DIAGRAM (EF-101 AND EF-102)
NTS

1. RUN CONDITIONS - SCHEDULED:
   A. THE FAN SHALL RUN CONTINUOUSLY.
2. FAN:
   A. THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.
3. FAN STATUS:
   A. THE CONTROLLER SHALL MONITOR THE FAN STATUS.

   B. ALARMS SHALL BE PROVIDED AS FOLLOWS:
      c. FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
      d. FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
      e. FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

EXHAUST FAN POINTS LIST (EF-101 AND EF-102)

	HARDWARE POINTS				SOFTWARE POINTS					
POINT NAME	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	SHOW ON GRAPHIC
FAN STATUS			X					X		X
FAN START/STOP				X				X		X
SCHEDULE							X			
FAN FAILURE									X	
FAN IN HAND									X	
FAN RUNTIME EXCEEDED									X	

REVIEW ONLY - NOT FOR CONSTRUCTION

ISSUED FOR BID	05/15/2026
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95% CONSTRUCTION DOCUMENTS	01/30/2026
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL CONTROLS
Approved: Project Director
Phase: ISSUED FOR BID
Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Project Number: 521-24-102
Building Number: #1
Location: BIRMINGHAM VAMC
Issue Date: 05/15/2026
Checked: RH
Drawn: RR
Drawing Number: M702

VA FORM 08-6231

MOUNTING HEIGHTS FOR ELECTRICAL DEVICES

DEVICE	MOUNTING HEIGHTS
LIGHT SWITCHES, WALL MOUNTED OCCUPANCY SENSORS	48" TO CENTERLINE OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
DISCONNECT SWITCHES, MOTOR STARTERS, MOTOR PUSH BUTTON STATIONS	60" TO CENTERLINE.
WALL MOUNTED EXIT SIGNS	90" TO CENTERLINE OF SIGN OR CENTERED IN WALL AREA BETWEEN TOP OF DOOR AND CEILING.
CEILING MOUNTED EXIT SIGNS	80" TO BOTTOM FIXTURE.
RECEPTACLES	16" TO BOTTOM OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
SPECIAL OUTLETS OR RECEPTACLES	16" TO BOTTOM OF BOX OR AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
PLUGMOLD OR WIREMOLD	AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
CLOCK OUTLETS	12" CEILING TO CENTERLINE OR 7'-0" TO CENTERLINE IF CEILING IS OVER 8'-0".
DATA/COMMUNICATION OR TELEPHONE OUTLETS	16" TO BOTTOM OF BOX.
TELEPHONE OUTLETS - WALL TYPE	54" TO DIAL CENTER (NON-ACCESSIBLE). 48" TO HIGHEST OPERABLE PART (ACCESSIBLE).
TEMPERATURE/HUMIDITY SENSORS	60" TO CENTER LINE OF BOX.
FIRE ALARM MANUAL PULL STATIONS	48" TO CENTERLINE OF BOX - NOT MORE THAN 5'-0" FROM EXIT.
FIRE ALARM AUDIBLE ONLY DEVICE	NOT LESS THAN 90" TO TOP OR 6" BELOW CEILING, WHICH EVER IS HIGHER.
FIRE ALARM VISUAL ONLY DEVICE OR A COMBINATION AUDIBLE AND VISUAL DEVICE	80" TO BOTTOM OF DEVICE OR NOT MORE THAN 96" TO TOP.
WALL MOUNTED REMOTE INDICATOR LIGHT	80" TO CENTERLINE OF DEVICE OR 6" BELOW CEILING, WHICHEVER IS LOWER.
AREA OF REFUGE TELEPHONE	SAME AS TELEPHONE - ACCESSIBLE.
CALL FOR AID SWITCH WITH PULL CHAIN TO FLOOR	48" TO CENTERLINE OF BOX MINIMUM (TOILETS). 66" TO CENTERLINE OF BOX MAXIMUM (SHOWERS - LOCATED OUT OF SPRAY AREA).
CARD READER	48" TO HIGHEST OPERABLE PART (SIDE OR FORWARD ACCESS).
INTERCOM STATION	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
SOUND SYSTEM VOLUME CONTROL	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
MICROPHONE OUTLETS	16" TO BOTTOM OF BOX.
THERMOSTATS	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
TEMPERATURE/HUMIDITY SENSORS	60" TO CENTER LINE OF BOX.

NOTES:

1. ALL DIMENSIONS ARE CONSIDERED FROM FINISHED FLOOR AND, UNLESS NOTED OTHERWISE, SHALL NOT VARY. RAISED FLOORS SHALL BE CONSIDERED FINISHED FLOOR.
2. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND MAY BE ADJUSTED TO CONFORM WITH ARCHITECTURAL REQUIREMENTS AS LONG AS NO CODE RESTRICTION IS VIOLATED.
3. OUTLETS INSTALLED LOWER THAN 15" AFF (FORWARD REACH) AND 9" AFF (SIDE REACH) ARE IN VIOLATION OF ADA.

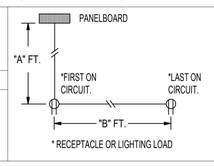
SPECIAL NOTES:

1. EXIT SIGNS SHALL NOT BE INSTALLED IN A MANNER THAT THE SIGN WILL BLOCK FIRE ALARM VISUAL DEVICES.
2. FOR LIGHTING FIXTURES MOUNTING HEIGHTS SEE SCHEDULE AND DRAWINGS.

WIRE SIZING TABLE

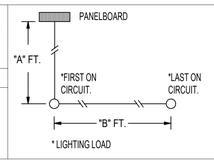
FOR 120V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)

IF DISTANCE (A+B) IN FEET IS: (SEE DIAGRAMAT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.	
	WIRE SIZE	CONDUIT SIZE
0' TO 100'	#12 AWG (MIN.)	3/4"
100' TO 175'	#10 AWG	3/4"
175' TO 300'	#8 AWG	3/4"
300' TO 450'	#6 AWG (MAX.)	1"



FOR 277V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)

IF DISTANCE (A+B) IN FEET IS: (SEE DIAGRAMAT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.	
	WIRE SIZE	CONDUIT SIZE
0' TO 250'	#12 AWG (MIN.)	3/4"
250' TO 400'	#10 AWG	3/4"
400' TO 700'	#8 AWG	3/4"
700' TO 1000'	#6 AWG (MAX.)	1"



NOTES:

1. TABLES ARE BASED ON EVENLY DISTRIBUTED LOAD ALLOWING A 3% VOLTAGE DROP AT LAST OUTLET.
2. 480V MOTOR BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG IN 3/4" C UNLESS OTHERWISE NOTED.
3. SIZE OF CONDUCTORS ARE BASED UPON EACH MOTOR BEING FED WITH SEPARATE CONDUIT. IF CONDUCTORS FOR TWO MOTORS (MAX.) ARE TO BE COMBINED IN ONE CONDUIT, INCREASE THE SIZE OF CONDUCTORS AND CONDUITS PER NATIONAL ELECTRICAL CODE (NEC), TO COMPENSATE FOR CONDUCTOR DE-RATING.
4. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.

ELECTRICAL GENERAL NOTES

SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL REQUIREMENTS LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AND AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED BELOW.

EQUIVALENCY SUBSTITUTIONS: THE "BASIS OF DESIGN (BOD) PROTOCOLS": IS TO BE FOLLOWED FOR ALL EQUIPMENT, MATERIAL AND ASSEMBLIES SPECIFIED AND DETAILED THROUGHOUT ALL DRAWINGS AND SPECIFICATION SECTIONS, WHETHER THE BOD DESIGNATE IS SPECIFICALLY REFERENCED THEREIN OR NOT. SEE THE GENERAL DRAWINGS SECTION FOR THE FULL BOD EQUIVALENCY SUBSTITUTION REQUIREMENTS AND PROTOCOLS TO BE FOLLOWED.

1. CODES

   THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, STATE, NATIONAL CODES, AND ALL VA APPLICABLE DESIGN MANUALS STANDARDS REQUIREMENTS. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THE CONSTRUCTION DOCUMENTS SHALL GOVERN. HOWEVER, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

   ALL WORK, MATERIAL, AND EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITIONS AND INTERIM AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.), NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES ALONG WITH ALL DESIGN CRITERIA STD AND REQUIREMENTS. ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW (UNLESS OTHERWISE NOTED) AND SHALL BEAR THE MARK OF NATIONALLY RECOGNIZED TESTING LABORATORY. ALL EQUIPMENT OF THE SAME TYPE AND CAPACITY SHALL BE BY THE SAME MANUFACTURER.

2. DRAWINGS AND SPECIFICATIONS

   THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL.
   CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, ALL STRUCTURAL, ALL MECHANICAL, ALL ELECTRICAL, ALL PLUMBING, AND ENTIRE SPECIFICATIONS. CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF THE ELECTRICAL WORK. CONTRACTOR SHALL FULLY COORDINATE ELECTRICAL WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE ELECTRICAL INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE BASE SCOPE OF WORK AT NO ADDITIONAL COST TO THE VA.

3. INTERPRETATION OF THE DOCUMENTS

   CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS OR SPECIFICATION, OR BETWEEN SECTIONS OF THE SPECIFICATION, THE MATTER SHALL BE REFERRED TO THE COR BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION. IF NOT STATED IN THE BID, IT WILL NOT BE CONSIDERED EXTRA.
   ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, IN A NEAT AND WORKABLE MANNER CONSISTENT WITH RECOGNIZED GOOD PRACTICE, AND SHALL BE SUBJECT TO THE APPROVAL OF THE VA.
   ANY CHANGES TO THE CONTRACT REQUIREMENTS MUST BE APPROVED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL KEEP UP-TO-DATE DRAWINGS, ON-SITE, AVAILABLE, INCLUDING ALLOWABLE DEVIATIONS FROM THE CONTRACT DRAWINGS.

4. ELECTRICAL DRAWINGS

   THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC. THE LOCATION OF RACEWAY SYSTEM COMPONENTS IS SCHEMATIC. THE EXACT LOCATION OF RACEWAY SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, AND VERIFY CLEARANCES AND ROUGH-INS PRIOR TO STARTING WORK.

5. SITE EXAMINATION

   BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS. THIS VISIT SHALL ONLY BE ALLOWED AS PER THE VA SCHEDULED WALKTHROUGH AND THE SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT SUCH A VISIT HAS BEEN MADE. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE OR FOR LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH VISIT BEEN MADE.

6. COORDINATION WITH OTHER TRADES

   THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, ROUGH-IN LOCATIONS, AND OTHER ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 120 VOLT (AND HIGHER) AC POWER TO OTHER TRADES EQUIPMENT AND HARDWARE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROLS, FIRE AND SECURITY SYSTEMS, MOTORIZED DOORS, DAMPERS, LIFTS, AND OTHER SYSTEMS. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL SAFETY DISCONNECT SWITCHES TO MECHANICAL EQUIPMENT. THE CONTRACTOR SHALL CHECK ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL TRADES WORK FOR POSSIBLE INTERFERENCE CAUSED BY CONDITIONS IN THE FIELD BEFORE THE BID IS MADE. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF HISHER FAILURE TO HAVE MADE SUCH EXAMINATIONS OR OF ANY ERROR OF HISHER PART.

7. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING SETTING IN PLACE, AND PROTECTING FROM DAMAGE, VANDALISM, THEFT OR WEATHER DURING CONSTRUCTION FOR ALL NEW EQUIPMENT FURNISHED BY THE ELECTRICAL CONTRACTOR.

   CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS AND TAXES APPLICABLE TO THIS DIVISION IF NECESSARY. (FEDERAL GOVERNMENT IS NOT SUBJECT TO LOCAL PERMITS OR FEE FOR THE PROJECT).

8. FIRE STOPPING

   ALL PENETRATIONS IN WALL, FLOOR OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH AN INTUMESCENT FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. FIRE STOPPING PRODUCTS SHALL BE MANUFACTURED BY 3M CO OR APPROVED EQUAL.

9. PAINTING

   ALL NEWLY INSTALLED EXPOSED PIPING SHALL BE PAINTED TO MATCH THE EXISTING ADJACENT WALL OR CEILING SURFACE.

10. VA FURNISHED EQUIPMENT

    EQUIPMENT THAT WILL BE FURNISHED BY THE VA SHALL BE INDICATED ON A SEPARATE SCHEDULE. THE CONTRACTOR SHALL COORDINATE WITH THE VA FOR DELIVERY SCHEDULES. THE CONTRACTOR IS TO ASSUME THAT ON SITE STORAGE MAY NOT BE AVAILABLE WHEN COORDINATING DELIVERY OF EQUIPMENT. THE CONTRACTOR, IN COORDINATION WITH THE COR, WILL INSPECT THE DELIVERY FOR ACCURACY AND SHIPMENT DAMAGE AND ACCEPTING THE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO STORE, PROTECT, AND ULTIMATELY INSTALL THE EQUIPMENT.

11. ELECTRICAL SERVICE DISRUPTIONS

    ANY WORK INVOLVING A TASK WHICH EXPOSES ACTIVE BUS SHALL BE PERFORMED AFTER HOURS (11:00PM TO 5:00AM). THIS RESTRICTION INCLUDES REMOVING THE COVER FROM ANY PANEL BOARD, SWITCHBOARD, M.C.C. ETC. ALL WORK WHICH EXPOSES ACTIVE BUS REQUIRES A WRITTEN NOTIFICATION TO THE COR WHICH WILL OUTLINE THE METHOD OF PROCEDURE FOR THE WORK. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 WEEKS NOTICE TO THE COR BEFORE WORKING ON ANY ENERGIZED ELECTRICAL SYSTEM. ADDITIONALLY, CONTRACTOR SHALL OBTAIN MEDICAL CENTER DIRECTOR'S APPROVAL. ALL POWER DISRUPTION SHALL OCCUR AT TIMES AND OF DURATIONS ACCEPTABLE TO THE COR.

12. EQUIPMENT

    ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND HAVE THE APPROPRIATE UL LISTING AND LABEL.
    THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, TOOLS, EQUIPMENT SERVICES, AND ACCESSORIES FOR COMPLETE INSTALLATION OF ALL ELECTRICAL WORK AS NOTED. ITEMS OMITTED FROM EITHER THE SPECIFICATIONS OR THE DRAWINGS, BUT SHOWN OR DESCRIBED IN ONE OR THE OTHER, AND ITEMS NECESSARY TO MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE SHALL FORM A PART OF THE WORK.

13. MISCELLANEOUS SUPPORTING MEMBERS

    ALL ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, RODS, ETC. REQUIRED TO SUPPORT LUMINAIRE, CONDUIT, RACEWAY, LADDER TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
    ANY MENTION OF A SPECIFIC VOLTAGE ON THE ELECTRICAL DRAWINGS SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE VOLTAGE PRIOR TO PURCHASING OR ROUGH-IN WORK.

14. DISTRIBUTION PANELS AND PANELS BOARDS

    ALL DISTRIBUTION PANELS AND PANEL BOARDS SHALL BE PROVIDED WITH TYPEWRITTEN DIRECTORIES. SEE PANEL SCHEDULES ON THE DRAWINGS AND SPECIFICATION FOR COMPLETE IDENTIFICATION AND LABELING REQUIREMENTS. ALL DISTRIBUTION PANELS AND PANEL BOARDS SHALL BE LABELED ON THE PANEL CABINET WITH THE PANEL NAME AND THE POWER SOURCE FEEDING THE PANEL AS PER THE ELECTRICAL ONE LINE. ALL PANELS AND PANEL BOARDS SHALL BE PROVIDED WITH HINGED DOOR WITH LOCK AND KEY.

15. SAFETY

    THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE VA'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS, AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CONDUCTORS, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK

16. EQUIPMENT CONNECTIONS

    PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND FOR ALL VA FURNISHED EQUIPMENT. PROVIDE A FLEXIBLE LIQUID TIGHT CONNECTION TO ALL VIBRATION PRODUCING EQUIPMENT.

17. TEMPORARY LIGHTING, POWER, FIRE, AND SAFETY

    PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED IN AREAS UNDERGOING WORK DURING CONSTRUCTION. FURNISH AND INSTALL ONE OSHA APPROVED PIGTAIL SOCKET WITH LED EQUIVALENT 150-WATT LAMP FOR EVERY 500 SQUARE FEET OF FLOOR SPACE AND A MINIMUM 1 PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL.

    FURNISH AND INSTALL POWER OUTLETS TO A TOTAL ONE FOR EVERY 2,000 SQUARE FEET OR PART THEREOF OF FLOOR AREA AND THESE SHALL BE 20 AMP, SINGLE PHASE RECEPTACLES FOR EITHER 110 VOLTS OR AS INDICATED ON THE DRAWINGS. PROVIDE ADDITIONAL OUTLETS AS NECESSARY. COORDINATE ADDITIONAL TEMPORARY POWER AND REQUIREMENTS WITH OTHER TRADES TO PROVIDE AN ADEQUATE INSTALLATION.

    COMPLY WITH NFPA 241 FOR SAFEGUARDING DURING CONSTRUCTION AND ALTERATION OPERATIONS. IN ADDITION, ANY OPENINGS IN FIRE RATED SEPARATIONS BETWEEN OCCUPIED AND UNOCCUPIED (OR OPERATIONAL AND NON-OPERATIONAL) AREAS SHALL BE SEALED AT THE END OF EACH WORK DAY WITH AN APPROPRIATE FIRE RATED ENCLOSURE OR SEALANT. DO NOT COMPROMISE EXISTING SECURITY OR FIRE ALARM SYSTEMS SERVING THE OCCUPIED OR OPERATIONAL AREAS.

    DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN ELECTRICAL SERVICE TO THE BUILDING WITHOUT ANY POWER OUTAGES OR INTERRUPTION AT ALL TIMES. SHOULD IT BE NECESSARY TO INTERRUPT ANY ELECTRICAL SERVICE OR UTILITY, THE CONTRACTOR SHALL REQUIRED PERMISSION IN WRITING FROM THE COR FOR SUCH INTERRUPTION AT LEAST 2 WEEKS IN ADVANCE. ANY INTERRUPTION SHALL BE MADE WITH A MINIMUM AMOUNT OF DOWNTIME TO THE VA. ANY SHUT-DOWN TIME SHALL HAVE TO BE ON A PREMIUM TIME BASIS AND SUCH TIME TO BE INCLUDED IN THE CONTRACTOR'S BID.
    CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA), AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.

18. POWER COORDINATION

    THE CONTRACTOR SHALL PERFORM ALL COORDINATION AND SCHEDULING OF LOCAL POWER OUTAGES REQUIRED WITH THE COR. ALL NEEDED POWER OUTAGES TO BE SCHEDULED WITH THE COR TWO WEEKS IN ADVANCE.

19. CABLING

    BRANCH CIRCUITS TO RECEPTACLES, LIGHTING AND MISC. SMALL LOADS (15 OR 20 AMP CIRCUITS), UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE 2 - #12, 1 - #12 GRD., 3/4" C. A SEPARATE NEUTRAL SHALL BE RUN FOR EACH CIRCUIT. SEE WIRE SIZING TABLE ON THIS SHEET.
    ALL WIRE SIZE #12 AWG AND LARGER SHALL BE STRANDED AND SOLID FOR #14 AND SMALLER.

    EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR. ALL CONDUCTORS SHALL BE COPPER TYPE THWN / XHHW.

20. CABLING SIZES

    BRANCH CIRCUIT CABLE SIZING SHALL BE ADJUSTED BASED ON THE VALUES INDICATED IN THE WIRE SIZING TABLE PER THIS SHEET.

21. SPECIAL LUG REQUIREMENTS

    ANY CABLE WHICH TERMINATES DIRECTLY ON TO A BUS BAR SHALL BE 2 BOLT LONG BARREL TYPE WITH INSPECTION HOLES PRODUCED WITH NON FLASHING TYPE DYES AS MANUFACTURED BY THOMAS AND BETTS, OR EQUAL MINIMUM 10 TONS OF COMPRESSION, HEX CRIMP. THE USE OF HEAT SHRINK TUBING IS EXPLICITLY FORBIDDEN. THERE SHALL BE NO "SHINERS" AT THE LUGS.

22. RACEWAYS

    ALL WIRE SHALL BE INSTALLED IN THIN WALL (E.M.T.) CONDUIT UNLESS OTHERWISE NOTED. MINIMUM SIZE SHALL BE 3/4" EXCEPT FOR DROPS FOR DEVICES, SWITCH LEGS, TEMPERATURE CONTROL CONDUITS. WHERE INDICATED OR AS CALLED FOR ON DRAWINGS. ALL THINWALL FITTINGS SHALL BE OF THE STEEL COMPRESSION GLAND TYPE.

    ALL UNDERFLOOR, UNDERGROUND OR EXPOSED-TO-WEATHER CONDUIT SHALL BE HEAVYWALL GALVANIZED RIGID STEEL. (G.R.S.), MINIMUM 3/4".

    ALL CONDUIT FASTENERS, STRAPS, SUPPORTS ETC. MUST BE "BOLT-ON" GALVANIZED STEEL ON EXPOSED CONSTRUCTION AND IN WET AREAS. SNAP-ON BLACK METAL "CADDY" CLIPS IN METAL PARTITION WALLS AND ABOVE SUSPENDED CEILINGS WILL BE PERMITTED. ALL FASTENERS, STRAPS, CLIPS, ETC. SHALL BE UL LISTED FOR THEIR USE.

    SUPPORT CONDUIT WITH P1000 UNISTRUT OR APPROVED EQUAL WITH 3/8" THREADED ROD 8'-0" O.C. MAX.

    PROVIDE MYERS HUBS OR EQUAL FOR ALL CONDUIT TO ENCLOSURE CONNECTIONS.

    ALL CONDUIT RACEWAYS SHALL BE CONCEALED IN OR WITHIN: WALLS, CEILING CAVITY, ROOF CONSTRUCTION (WHERE APPROVED), SLAB, GRADE, ETC. UNLESS OTHERWISE NOTED. ANY RACEWAY THAT IS TO BE ROUTED EXPOSED SHALL BE APPROVED BY THE VACOR AND SUCCESSFULLY REVIEWED BY THE ARCHITECT/ENGINEER. PRIOR TO INSTALLATION. ALL CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS WITH 90° BENDS WHERE REQUIRED AND SHALL BE RACKED. PULL AND JUNCTION BOXES SHALL BE HELD TO A MINIMUM. CONTRACTOR SHALL INSTALL ALL WORK IN NEAT & WORK LIKE MANNER.

    GROUND ALL CONDUITS, MOTORS, AND EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. VA SPECIFICATION SECTION 26 05 26 "GROUNDING AND BONDING FOR ELECTRICAL SYSTEM".

    CONTRACTOR SHALL PROVIDE BOXES, JUNCTION BOXES, SPLICE BOXES AND FITTINGS WHERE NECESSARY OR REQUIRED BY THE NEC.

    ALL ELECTRICAL CONDUITS TO A MINIMUM OF 3/4". MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

    PROVIDE COLOR RED CONDUIT FOR FIRE ALARM. WHERE CORE DRILLING AND CUTTING OF FLOORS OR WALLS IS REQUIRED, SCAN THE AREAS PRIOR TO DRILLING. AVOID INTERFERENCE WITH EXISTING CONCEALED ELECTRICAL, PLUMBING INSTALLATIONS REINFORCING STEEL. REFINISH DAMAGED AND CUT SURFACES TO MATCH ADJACENT FINISHES.

    CONTRACTOR SHALL FIREPROOF ALL CONDUIT OPENINGS BETWEEN FLOORS AND ANY INTERSPACE FIRE SEPARATION BLOCK WALLS WITH AN COR APPROVED U.L. LISTED FIRE RETARDANT MATERIAL. AS SUCCESSFULLY REVIEWED BY ARCHITECT/ENGINEER.

23. LIGHTING

    ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.

24. RECEPTACLES

    CONTRACTOR SHALL VERIFY ALL OUTLET MOUNTING ARRANGEMENTS, HEIGHTS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, HEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT WITH THE EQUIPMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR OUTLETS IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK ETC. THE VA RESERVES THE RIGHT TO RELOCATE ANY DEVICE 10'-0" PRIOR TO ROUGH-IN WITHOUT ANY ADDITIONAL CHARGES BY THE CONTRACTOR.

    OUTLET BOXES MOUNTED BACK-TO-BACK IN THE SAME WALL ARE PROHIBITED. A MINIMUM 24" CENTER-TO-CENTER LATERAL SPACING SHALL BE MAINTAINED BETWEEN BOXES.

    ALL DUPLEX RECEPTACLES SHALL BE HOSPITAL GRADE NEMA 5-20R.

    ALL EMERGENCY POWER OUTLETS SHALL BE RED IN COLOR. IN ROOMS WITHOUT GENERAL ILLUMINATION ON EMERGENCY POWER, EMERGENCY RECEPTACLES SHALL BE OF THE SELF ILLUMINATED TYPE.

25. GUARANTEE

    ALL EQUIPMENT FURNISHED AND WORK PERFORMED UNDER THE CONTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD AS PER VA SPECIFICATION, UNLESS OTHERWISE NOTED. ANY FAILURE OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS OR WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE VA.

26. FINAL INSPECTION

    ALL THE ITEMS AND WORK SHALL BE TESTED FOR SAFE, PROPER OPERATIONS.

    UPON COMPLETION OF THE WORK, THE ELECTRICAL CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE VA'S PROPERTY, LEAVING THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY CARTON, DEBRIS, ETC., FOR EQUIPMENT INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY THE VA. THE ABOVE SHALL ALSO APPLY TO ALL EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTON, BY THE CONTRACTOR.

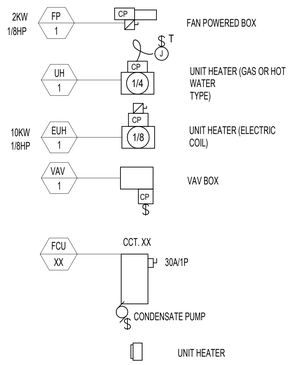
GENERAL NOTES - DEMOLITION

1. EXAMINATION
   A. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE AREAS UNDERWHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE VA IN WRITING OF ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL SATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
   B. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS FOR DEVICES SHOWN ON DRAWINGS.
   C. DEMOLITION DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DRAWINGS. REPORT DISCREPANCIES TO COR BEFORE DISTURBING EXISTING INSTALLATION. CONTRACTOR SHALL COORDINATE WITH COR FOR ANY HIDDEN/UNFORESEEN WORK FOUND AFTER COMMENCEMENT OF WORK THAT NEEDS TO BE REWORKED/RELOCATED TO COMPLETE THE NEW WORK.
   D. COMMENCEMENT OF DEMOLITION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
   E. REVIEW MECHANICAL AND ARCHITECTURAL DEMOLITION DRAWINGS FOR FOR ANY OTHER ELECTRICAL REQUIREMENTS.
2. PREPARATION
   A. DISCONNECT ELECTRICAL ACCESSORIES IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
3. DEMOLITION AND EXTENSION OF E

ELECTRICAL SYMBOLS - DIAGRAM

- INCOMING LINE
- GROUND
- DELTA CONNECTION
- WYE CONNECTION
- SURGE AND LIGHTNING ARRESTER
- POTHEAD
- STRESS CONE
- TRANSFORMER
- CONTACTOR
- EARTH GROUND
- PB — PULL BOX
- NORMALLY CLOSED RELAY CONTACT
- NORMALLY OPEN RELAY CONTACT
- FUSE WITH RATING
- MOLDED CASE CIRCUIT BREAKER
- LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- MEDIUM-VOLTAGE OIL CIRCUIT BREAKER
- MEDIUM-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- SWITCH AND FUSE UNIT
- FUSIBLE SWITCH
- FUSED DRAWOUT POTENTIAL TRANSFORMER
- CONTROL OR POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- CABLE AND CONDUIT TAG SEE SCHEDULE
- EQUIPMENT TAG SEE EQUIPMENT SCHEDULE
- ST — SHUNT TRIP
- A — AMMETER
- AS — AMMETER SELECTOR SWITCH
- V — VOLTMETER
- VS — VOLTMETER SELECTOR SWITCH
- M — UTILITY METER
- CM — OWNER METER
- KWH — KILOWATT HOUR METER
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR
- GF — GROUND FAULT
- CONTROL OR POTENTIAL TRANSFORMER

ELECTRICAL SYMBOL - HVAC POWER PLAN



ELECTRICAL SYMBOL - POWER PLAN

- MOTOR, SINGLE-PHASE
- MOTOR, THREE-PHASE
- TRANSFORMER, PLAN
- WYE CONNECTION
- EARTH GROUND
- J — POWER JUNCTION BOX
- A/V — DOUBLE GANG DEEP AUDIO/VISUAL JUNCTION BOX
- LADDER CABLE TRAY
- HOMERUN TO PANELBOARDS. 4#10 + 1#12 GROUND IN 3/4" CONDUIT
- PB — PULL BOX
- WIREWAY
- REGULAR POWER
- LIFE SAFETY POWER
- CRITICAL POWER
- PANELBOARD
- RECEPTACLE, DUPLEX
- RECEPTACLE, DUPLEX MOUNTED AT 44"
- RECEPTACLE, DUPLEX ON CRITICAL POWER
- RECEPTACLE, DUPLEX MOUNTED AT 44" ON CRITICAL POWER
- GFCI — RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER
- GFCI — RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER MOUNTED AT 44"
- RECEPTACLE, QUADRAPLEX
- RECEPTACLE, QUADRAPLEX MOUNTED AT 44"
- RECEPTACLE, QUADRAPLEX ON CRITICAL POWER
- FLOOR RECEPTACLE, DUPLEX
- FLOOR RECEPTACLE, DUPLEX ON CRITICAL POWER
- FLOOR RECEPTACLE, QUADRAPLEX
- FLOOR RECEPTACLE, QUADRAPLEX ON CRITICAL POWER
- CEILING MOUNTED RECEPTACLE
- CEILING MOUNTED RECEPTACLE ON CRITICAL POWER
- L6-30R TWIST LOCK RECEPTACLE ON NORMAL POWER, 250V, TWO-POLE, 3W GROUNDED
- L6-30R TWIST LOCK RECEPTACLE ON CRITICAL POWER, 250V, TWO-POLE, 3W GROUNDED
- ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" AFF OR AS INDICATED.
- PP — AUTOMATIC DOOR OPERATOR PUSH PLATE
- TC — TIME CLOCK
- CONDUIT STUBBED DOWN
- CONDUIT STUBBED UP
- FLEXIBLE CONDUIT
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION
- J — JUNCTION BOX WITH DISCONNECT SWITCH AND FLEXIBLE CONDUIT CONNECTION
- J — EQUIPMENT CONNECTION
- EMERGENCY POWER OFF PUSHBUTTON
- BELL
- B — BUZZER
- DOCK DOOR POSITION INDICATOR LIGHT
- T — THERMOSTAT, WALL MOUNTED PULL CORD
- H — HUMIDISTAT, WALL MOUNTED

MOTORS AND CONTROLS

- XX — SINGLE PHASE MOTOR (HP AS INDICATED)
- XX — THREE PHASE (HP AS INDICATED)
- 30A/20A — DISCONNECT SWITCH, FUSED (SWITCH/FUSE RATING)
- 30A — DISCONNECT SWITCH, UNFUSED (SWITCH RATING)
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
- VFD — VARIABLE FREQUENCY DRIVE

ELECTRICAL SYMBOLS - LIGHTING PLAN

- $ — SWITCH
  - BLANK = SINGLE POLE
  - 4 = FOUR-WAY
  - D = DIMMER
  - LV= LOW VOLTAGE
  - WP=WEATHER PROOF
  - T= THERMAL OVERLOAD PROTECTION
  - 3 = THREE-WAY
  - K = KEY OPERATED
  - P = WITH PILOT LIGHT
  - TM = TIMER OPERATED
  - X = EXPLOSION PROOF
  - OS= OCCUPANCY SENSOR
- OS — SWITCH, OCCUPANCY SENSOR REFER TO FIXTURE SCHEDULE FOR TYPE
- PC — SWITCH, EXTERIOR PHOTO CELL FOR CONTROL OF EXTERIOR LIGHTING
- SWITCH, LAMP HOLDER POLE
- LIGHT FIXTURE RECESSED ROUND CEILING MOUNTED DOWNLIGHT
- LIGHT FIXTURE RECESSED SQUARE CEILING MOUNTED DOWNLIGHT
- LIGHT FIXTURE, RECESSED LED, 2'x4'
- LIGHT FIXTURE, RECESSED LED 1'x4'
- LIGHT FIXTURE, RECESSED LED, 2'x2'
- S — LIGHT FIXTURE, LED, 2'x4' LETTER INDICATES MOUNTING TYPE i.e. LETTER "S" INDICATES SURFACE MOUNTED.
- S — LIGHT FIXTURE, LED, 1'x4" LETTER INDICATES MOUNTING TYPE i.e. LETTER "S" INDICATES SURFACE MOUNTED.
- S — LIGHT FIXTURE, LED, 2'x2' LETTER INDICATES MOUNTING TYPE i.e. LETTER "S" INDICATES SURFACE MOUNTED.
- LIGHT FIXTURE, LED CRITICAL POWER
- LIGHT FIXTURE, LED LIFE SAFETY
- LIGHT TRACK WITH HEADS AS SHOWN
- S — LIGHT FIXTURE, STRIP/INDUSTRIAL LED; LETTER INDICATES TYPE.
- LIGHTING, UNDERCABINET LIGHT/COVE LIGHT
- EMERGENCY BATTERY BACK-UP EGRESS LIGHT
- DOUBLE FACED CEILING OR WALL MOUNTED EXIT SIGN. ARROW INDICATES DIRECTION
- SINGLE FACED CEILING OR WALL MOUNTED EXIT SIGN. ARROW INDICATES DIRECTION
- LIGHT POLE, ONE MAST ARM, ONE LUMINAIRE
- LIGHT POLE, TWO MAST ARMS, TWO LUMINAIRES
- LIGHT POLE, POST TOP MOUNT LUMINAIRE
- LIGHT POLE, ONE LUMINAIRE
- LIGHT POLE, TWO LUMINAIRES
- LIGHTING WALL PACK - EXTERIOR BUILDING
- LIGHTING LANDSCAPE WALL
- LIGHT FIXTURE, BOLLARD, ROUND
- LIGHT FIXTURE, BOLLARD, SQAURE
- LIGHT FIXTURE, DIRECTIONAL

ELECTRICAL ABBREVIATIONS

1PH	SINGLE-PHASE	EC	EMPTY CONDUIT	NEUT OR N	NEUTRAL
1P	SINGLE POLE	EG	EQUIPMENT GROUND	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
2/C	TWO-CONDUCTOR	EL	ELEVATION	NIC	NOT IN CONTRACT
3/C	THREE-CONDUCTOR	ELEC	ELECTRIC OR ELECTRICAL	NL	NIGHT LIGHT
3PH	THREE-PHASE	ELEV	ELEVATOR	NO	NORMALLY OPEN
4/C	FOUR-CONDUCTOR	EMCP	EMERGENCY MONITORING CONTROL PANEL	NS	NO SCALE
4W	FOUR-WIRE	EMER	EMERGENCY	NTS	NOT TO SCALE
		EMI	ELECTROMAGNETIC INTERFERENCE		
A/C UNIT	AIR CONDITIONING UNIT	EMT	ELECTRICAL METALLIC TUBING	OC	ON CENTER
A/E	ARCHITECT/ENGINEER	ENCL	ENCLOSURE	OD	OUTSIDE DIAMETER
AAP	ALARM ANNUNCIATOR PANEL	EPO	EMERGENCY POWER OFF	OL	OVERLOAD
AC	ALTERNATING CURRENT OR ARMORED CABLE	EPRF	EXPLOSION PROOF		
ACC	ACCESSIBLE	ESMT	EASEMENT	P	POLE
ADDL	ADDITIONAL	EWC	ELECTRIC WATER COOLER	PA	PUBLIC ADDRESS
ADJ	ADJACENT, ADJOINING	EWH	ELECTRIC WATER HEATER	PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
ADO	AUTOMATIC DOOR OPENER	EXIST, EX	EXISTING	PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
AF	AMPERE FRAME OR AMP FUSE			PCB	POLYCHLORINATED BIPHENYL
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT	FA	FIRE ALARM	PEC	PHOTOELECTRIC CELL
		FAAP	FIRE ALARM ANNUNCIATOR PANEL	PED	PEDESTAL
AFF	ABOVE FINISHED FLOOR	FABL	FIRE ALARM BELL	PEND	PENDANT
AFG	ABOVE FINISHED GRADE	FABX	FIRE ALARM BOX	PF	POWER FACTOR
AH	AMPERE HOUR	FACP	FIRE ALARM CONTROL PANEL	PH	PHASE
AHJ	AUTHORITY HAVING JURISDICTION	FC	FOOTCANDLE	PNL	PANEL
AIC	AMPERE INTERRUPTING CAPACITY	FI	FILM ILLUMINATOR	POD	POWER OPERATED DAMPER
ALT	ALTERNATE	FIXT	FIXTURE	PT	POTENTIAL TRANSFORMER
AMB OR A	AMBIENT	FLA	FULL LOAD AMPS	PTRV	POWER TYPE ROOF VENTILATION
AMP	AMPERE	FLEX	FLEXIBLE METALLIC CONDUIT	PVC	POLYVINYL CHLORIDE (PLASTIC)
ARCH	ARCHITECT	FLT	FLOODLIGHT	PWR	POWER
ASC	AMPS SHORT CIRCUIT	FLUOR	FLUORESCENT		
AT	AMPERE TRIP	FLUOR FIX	FLUORESCENT FIXTURE	RCP	REFLECTED CEILING PLAN
ATS	AUTOMATIC TRANSFER SWITCH	FOUTT	TELEPHONE FLOOR OUTLET	REC	RECESSED
AUTO	AUTOMATIC	FP	FIRE PROTECTION	RECPT	RECEPTACLE
AV	AUDIO VISUAL	FT	FEET OR FOOT	RGS	RIGID GALVANIZED STEEL
		FU SW	FUSED SWITCH	RM	ROOM
BAT	BATTERY	FVNR	FULL VOLTAGE NON-REVERSING	RMS	ROOT MEAN SQUARE
BC	BARE COPPER	FVR	FULL VOLTAGE REVERSING	REQD	REQUIRED
BD	BOARD				
BFF	BELOW FINISH FLOOR	G OR GND	GROUND OR GENERATOR	SCC	SHORT CIRCUIT CAPACITY
BIL	BASIC INSULATION LEVEL	GB	GROUND BUSBAR	SES	SERVICE ENTRANCE SECTION
BLDG	BUILDING	GEN	GENERATOR	SD	SMOKE DETECTOR
BPIP	BOILER PLANT INSTRUMENTATION PANEL	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SF	SQUARE FOOT (FEET)
BRKR	BREAKER	GTB	GROUND TERMINAL BOX	SHT	SHEET
BYP	BY PASS			SI	INTERNATIONAL SYSTEM OF UNITS
		HID	HIGH INTENSITY DISCHARGE	SPEC	SPECIFICATION
C	CONDUIT	HOA	HAND-OFF-AUTOMATIC	SPST	SINGLE POLE, SINGLE THROW
CAB	CABINET	HP	HORSEPOWER	SURF	SURFACE
CALC	CALCULATE	HT	HEIGHT	SW	SWITCH
CAP	CAPACITY	HZ	HERTZ	SWBD	SWITCHBOARD
CAT	CATALOG			SWGR	SWITCHGEAR
CATV	COMMUNITY ANTENNA TELEVISION	IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA		
CCR	CONTROL CONTACTOR	IMC	INTERMEDIATE METAL CONDUIT	TC	TIME CLOCK
CCTV	CLOSED CIRCUIT TELEVISION	INCAND	INCANDESCENT	TEL	TELEPHONE
CB	CODE BLUE	IR	INFRARED	TP	TWISTED PAIR
cd	CANDELA	IWH	INSTANTANEOUS WATER HEATER	TPS	TWISTED PAIR SHIELDED
CD	CONSTRUCTION DOCUMENTS			TTB	TELEPHONE TERMINAL BOARD
CF	CONTRACTOR FURNISHED	J-BOX, JB	JUNCTION BOX	TV	TELEVISION
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED			TYP	TYPICAL
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	kV	KILOVOLT		
CFE	CONTRACTOR FURNISHED EQUIPMENT	kVA	KILOVOLT AMPERE	UFD	UNDERFLOOR DUCT
CHW	CHILLED WATER	kVAH	KILOVOLT AMPERE PER HOUR	UGND	UNDERGROUND
CHWP	CHILLED WATER PUMP	kVAR	KILOVOLT AMPERE REACTIVE	UL	UNDERWRITERS LABORATORY
CKT	CIRCUIT	kW	KILOWATT	UON	UNLESS OTHERWISE NOTED
CKT BRKR	CIRCUIT BREAKER	kWH	KILOWATT HOUR	UPS	UNINTERRUPTIBLE POWER SUPPLY
CLF	CURRENT LIMITING FUSE	kWHM	KILOWATT HOUR METER	UTIL	UTILITY
CLG	CEILING				
CMU	CONCRETE MASONRY UNIT	LED	LIGHT EMITTING DIODE	V	VOLT
COAX	COAX CABLE	LF	LINEAR FEET (FOOT)	VA	VOLT AMPERE
COMM	COMMUNICATION	LM	LUMEN	VAR	VOLT AMPERE REACTIVE
COMPT	COMPARTMENT	LP	LIGHT POLE	VFD	VARIABLE FREQUENCY DRIVE
CONC	CONCRETE	LPS	LOW PRESSURE SODIUM	VOLT	VOLTAGE
CONT	CONTINUE	LRA	LOCKED ROTOR AMPS		
CONTR	CONTRACTOR	LTCP	LOCAL TEMPERATURE CONTROL PANEL	W	WATT
COORD	COORDINATE	LT	LIGHT	WH	WATER HEATER
CPT	CONTROL POWER TRANSFORMER	LTG	LIGHTING	WP	WEATHERPROOF
CRI	COLOR RENDERING INDEX	LTG PNL	LIGHTING PANEL		
CT	CURRENT TRANSFORMER	LTNG	LIGHTNING	XFER	TRANSFER
CTV	CABLE TELEVISION	LV	LOW VOLTAGE	XFMR	TRANSFORMER
CU	COPPER				
CU FT	CUBIC FEET	MATV	MASTER ANTENNA TELEVISION SYSTEM		
CUR	CURRENT	MAX	MAXIMUM		
		MC	METAL-CLAD		
DB	DECIBEL OR DIRECT BURIAL	MCA	MINIMUM CIRCUIT AMPS		
DC	DIRECT CURRENT	MCB	MAIN CIRCUIT BREAKER		
DCP	DIMMER CONTROL PANEL	MCC	MOTOR CONTROL CENTER		
DEG C	DEGREES CELSIUS	MDP	MAIN DISTRIBUTION PANEL		
DEG F	DEGREES FAHRENHEIT	MECH	MECHANICAL		
DEMO	DEMOLITION	MG	MOTOR GENERATOR		
DIAG	DIAGRAM	MH	MANHOLE		
DISC	DISCONNECT	MIN	MINIMUM		
DISTR	DISTRIBUTION	MOCP	MAXIMUM OVERCURRENT PROTECTION		
DISTR PNL	DISTRIBUTION PANEL	MLO	MAIN LUGS ONLY		
DMR SW	DIMMER SWITCH	MT	MOUNT		
DN	DOWN	MTD	MOUNTED		
DPDT	DOUBLE POLE, DOUBLE THROW	MTG	MOUNTING		
DPST	DOUBLE POLE, SINGLE THROW	MTS	MANUAL TRANSFER SWITCH		
DRSW	DOOR SWITCH	MV	MEDIUM VOLTAGE		
DS	DISCONNECT SWITCH	MVA	MEGAVOLT-AMPERE		
DWG	DRAWING	MW	MEGAWATT MICROWAVE		
		NA	NOT APPLICABLE		
		NAC	NOTIFICATION APPLIANCES CIRCUIT PANEL		
		NEC	NATIONAL ELECTRICAL CODE		
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		

GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
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65% DESIGN DEVELOPMENT SUBMITTAL	**09/08/2025**
35% SCHEMATIC DESIGN RESUBMITTAL	**06/30/2025**
Revisions:	**Date:**

CONSULTANT

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STATE OF ILLINOIS
5/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL - SYMBOLS AND ABBREVIATIONS

Phase
ISSUED FOR BID

Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number
521-24-102

Building Number
#1

Approved: Project Director

Location
BIRMINGHAM VAMC

Issue Date
05/15/2026

Checked
PTP

Drawn
YY

Drawing Number
E002

VA FORM 08-6231

N

1 ELECTRICAL - POWER DEMOLITION PLAN - SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

0 4' 8' 16'

ELECTRICAL DEMOLITION GENERAL NOTES

A. ALL ELECTRICAL DEVICES SHOWN WITH DARK DASH LINES SHALL BE REMOVED AND DEMOLISHED. UNLESS OTHERWISE NOTED REMOVE AND DEMOLISH ALL EXISTING CONDUIT AND CABLE BACK TO SOURCE PANEL FOR ALL DEMOLISHED DEVICES AND EQUIPMENTS. CONTRACTOR SHALL PERFORMED OSHA MANDATED LOCK OUT TAGOUT TO DISCONTINUE ALL SOURCE OF ENERGY SUPPLY.

B. UNLESS OTHERWISE NOTED ALL ELECTRICAL DEVICES SHOWN. WITH SOLID LIGHT LINES SCHEDULE TO REMAIN.

C. ALL BRANCH CIRCUIT WIRING AND LOW VOLTAGE WIRING (POWER, LIGHTING, SECURITY, PUBLIC ANNOUNCEMENT, TELECOMMUNICATION/DATA, NURSE CALL, AND PHYSICAL ACCESS CONTROL SYSTEM, ETC.) TO ALL DEMOLISHED DEVICES OR ABANDONED IN PLACE WITHIN THE PROJECT SCOPE AREAS SHALL BE DISCONNECTED AT THE SOURCE PANELS AND REMOVED COMPLETELY BACK TO SOURCE/ASSOCIATED PANELS BY CORRESPONDING CONTRACTOR. EMPTY CONDUITS TO BE REMOVED BACK TO SOURCE PANELS. NO EXISTING JUNCTIONS OR CONDUIT SHALL BE BURIED IN NEW WALLS.

D. IT IS MANDATORY THAT THE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING CONSTRUCTION. SERVICES TO EXISTING BUILDING SHALL BE KEPT ON CONTINUOUS OPERATION INCLUDING POWER, LIGHTING, TELEPHONE, ETC. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH PROJECT CONSTRUCTION SHALL BE HELD TO A MINIMUM AND ARRANGED WITH THE VA COR THROUGH THE GENERAL CONTRACTOR TWO (2) WEEKS IN ADVANCE. TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.

E. COORDINATE WITH MECHANICAL CONTRACTOR AND REMOVE AND DEMO ELECTRICAL WIRING AND CONDUIT BACK TO SOURCE PANEL FOR ANY MECHANICAL EQUIPMENT IS BEING DEMOLISHED AS A PART OF PROJECT SCOPE.

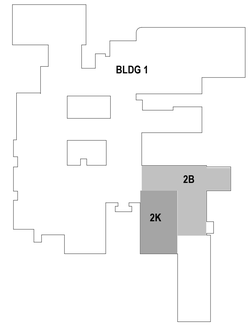
ELECTRICAL DEMOLITION KEY NOTES

1. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING LOADS THAT ARE CONNECTED TO EXISTING PANELS THAT ARE BEING REPLACE AS NEW. PROVIDE TEMPORARY POWER AS NECESSARY, AND SPLICE AND EXTEND EXISTING CIRCUIT WITH THE CABLE/CONDUIT SIZE TO MATCH EXISTING FROM NEW PANEL.
2. EXISTING GROUND BUSBAR TO REMAIN.
3. BEFORE START OF THE DEMO WORK, CONTRACTOR SHALL PREPARE THIS ROOM AS SWING SPACE FOR DOCTOR OFFICE. PROVIDE TWO QUAD OUTLETS AND ONE 2X4 CEILING LIGHT AND PROVIDE LINE VOLTAGE POWER FROM 2216 ELECTRICAL ROOM PANEL.

ELECTRICAL DEMOLITION LEGEND

ITEMS WITH DARK DASH LINE INDICATES TO BE DEMOLISHED.

ITEMS WITH LIGHT SOLID LINE INDICATES SCHEDULE TO REMAIN.



KEYPLAN

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Revisions:	Date:

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05/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER DEMOLITION PLAN - SECOND FLOOR - 2K, 2B AREA

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: PTP

Drawn: YY

Drawing Number: EPD102

VA FORM 08-6231

ELECTRICAL DEMOLITION GENERAL NOTES

A. REFER TO DEMOLITION NOTES ON DRAWING EPD102.

ELECTRICAL DEMOLITION LEGEND

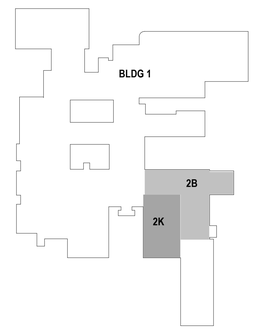
- -------- ITEMS WITH DARK DASH LINE INDICATES TO BE DEMOLISHED.
- ——— ITEMS WITH LIGHT SOLID LINE INDICATES ARE EXISTING TO REMAIN.

N

1 ELECTRICAL - LIGHTING DEMOLITION PLAN - SECOND FLOOR - 2K/2B AREAS

1/8" = 1'-0"

0 4' 8' 16'



KEYPLAN

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STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - LIGHTING DEMOLITION PLAN - SECOND FLOOR - 2K, 2B AREAS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
Approved: Project Director		Location: BIRMINGHAM VAMC	Building Number: #1
		Issue Date: 05/15/2026 / Checked: PTP / Drawn: YY	Drawing Number: ELD102

VA FORM 08-6231

ELECTRICAL GENERAL NOTES

A. FOR PANEL C22C-A/B, THE AS -BUILT DRAWINGS INDICATE THAT BRANCH CIRCUITS 16, 18, AND 20 ARE CONNECTED TO EXISTING LOADS. CONTRACTOR SHALL FIELD VERIFY THESE CONNECTIONS AND PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN SERVICE CONTINUITY. COORDINATE WITH THE NEW WORK DRAWINGS AND RECONNECT THE AFFECTED CIRCUITS TO THE NEW PANEL.

[#] ELECTRICAL KEY NOTES

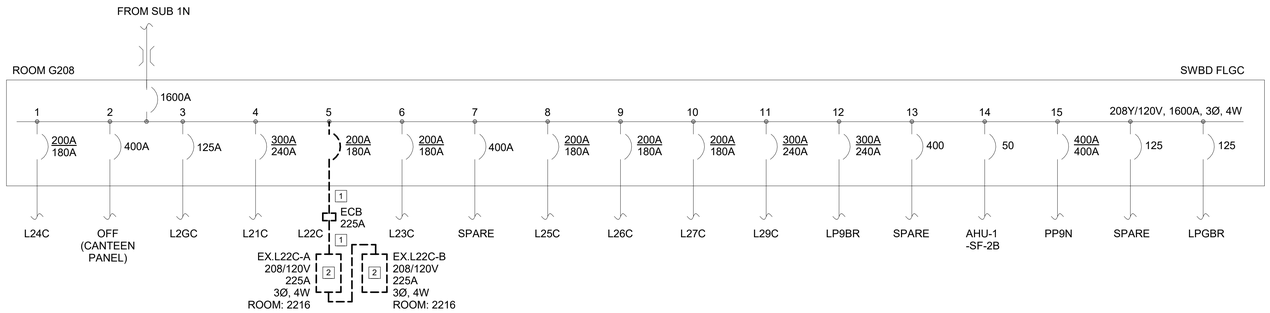
1. CONTRACTOR SHALL REMOVE AND DEMOLISH EXISTING CABLE AND LEAVE THE EXISTING CONDUIT IN PLACE. NEW CABLE SHALL BE ADDED IN EXISTING CONDUIT. REFER TO E500 FOR NEW CABLE SIZE REQUIREMENTS.

2. CONTRACTOR SHALL RECONNECT ALL EXISTING LOADS THAT ARE TO REMAIN TO NEW PANELS. PROVIDE NEW WIRING AND CONDUIT SIZED TO MATCH THE EXISTING INSTALLATION.

ELECTRICAL DEMOLITION LEGEND

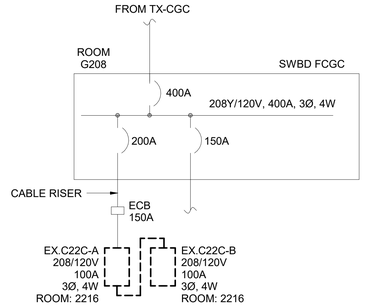
- - - - - - - - ITEMS WITH DARK DASH LINE INDICATES TO BE DEMOLISHED.

———— ITEMS WITH LIGHT SOLID LINE INDICATES ARE EXISTING TO REMAIN.



1 ELECTRICAL - SINGLE LINE DIAGRAM - NORMAL POWER - DEMOLITION

NOT TO SCALE



2 ELECTRICAL - SINGLE LINE DIAGRAM - CRITICAL POWER - DEMOLITION

NOT TO SCALE

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
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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: ELECTRICAL - SINGLE LINE DIAGRAM - DEMOLITION	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director		Location: BIRMINGHAM VAMC	Drawing Number: ED500
		Issue Date: 05/15/2026 / Checked: PTP / Drawn: YY	

VA FORM 08-6231

ELECTRICAL GENERAL NOTES

A. FOR CONDUIT ROUTING TO ROOF MOUNTED EQUIPMENT, CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL EQUIPMENT AND PIPE CURBS. WHERE CONDUIT MUST BE ROUTED ACROSS THE ROOF, IT SHALL BE RACKED INSTALLED ON SHARED RACKS WITH OTHER TRADES WHERE POSSIBLE; OTHERWISE, PROVIDE AN INDEPENDENT RACK SUPPORT SYSTEM COMPLETE WITH PROPER ROOF PROTECTION PLATES TO PREVENT DAMAGE TO THE ROOFING SYSTEM.

B. PROVIDE MYERS HUBS, CONDUIT SEALS FITTINGS, AND EXPANSION JOINTS FOR ALL OUTDOOR CONDUITS.

C. UNLESS OTHERWISE NOTED, PROVIDE NEMX-4X RATED ENCLOSURE FOR ALL OUTDOOR ELECTRICAL EQUIPMENT.

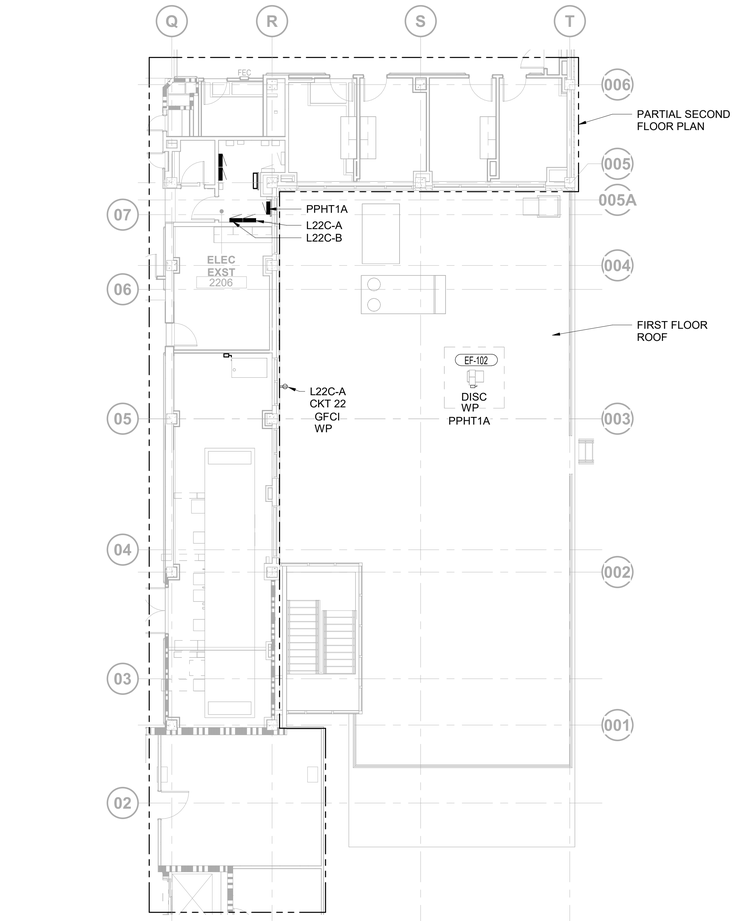
D. STARTER FURNISHED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, POWER CONNECTIONS, AND CONTROL WIRING AS REQUIRED.

E. PROVIDE GFCI RECEPTACLES IN WEATHER PROTECTED ENCLOSURES AND MOUNT ON FIELD-FABRICATED UNISTRUT SUPPORT RACKS.

ELECTRICAL LEGEND

ITEMS WITH LIGHT SOLID LINE INDICATES DEVICES THAT ARE EXISTING TO REMAIN.

ITEMS WITH DARK SOLID LINE INDICATES THAT CONTRACTOR SHALL FURNISH AND INSTALL NEW AS SPECIFIED.

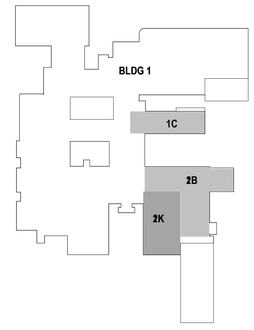


N

1 ELECTRICAL - POWER PLAN - FIRST FLOOR ROOF - 1B AREA

1/8" = 1'-0"

0 4' 8' 16'



KEYPLAN

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Bancroft Project No. 23-135

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LICENSED PROFESSIONAL ENGINEER
5/15/2026
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STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER PLAN - PARTIAL FIRST FLOOR ROOF - 1B AREA

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

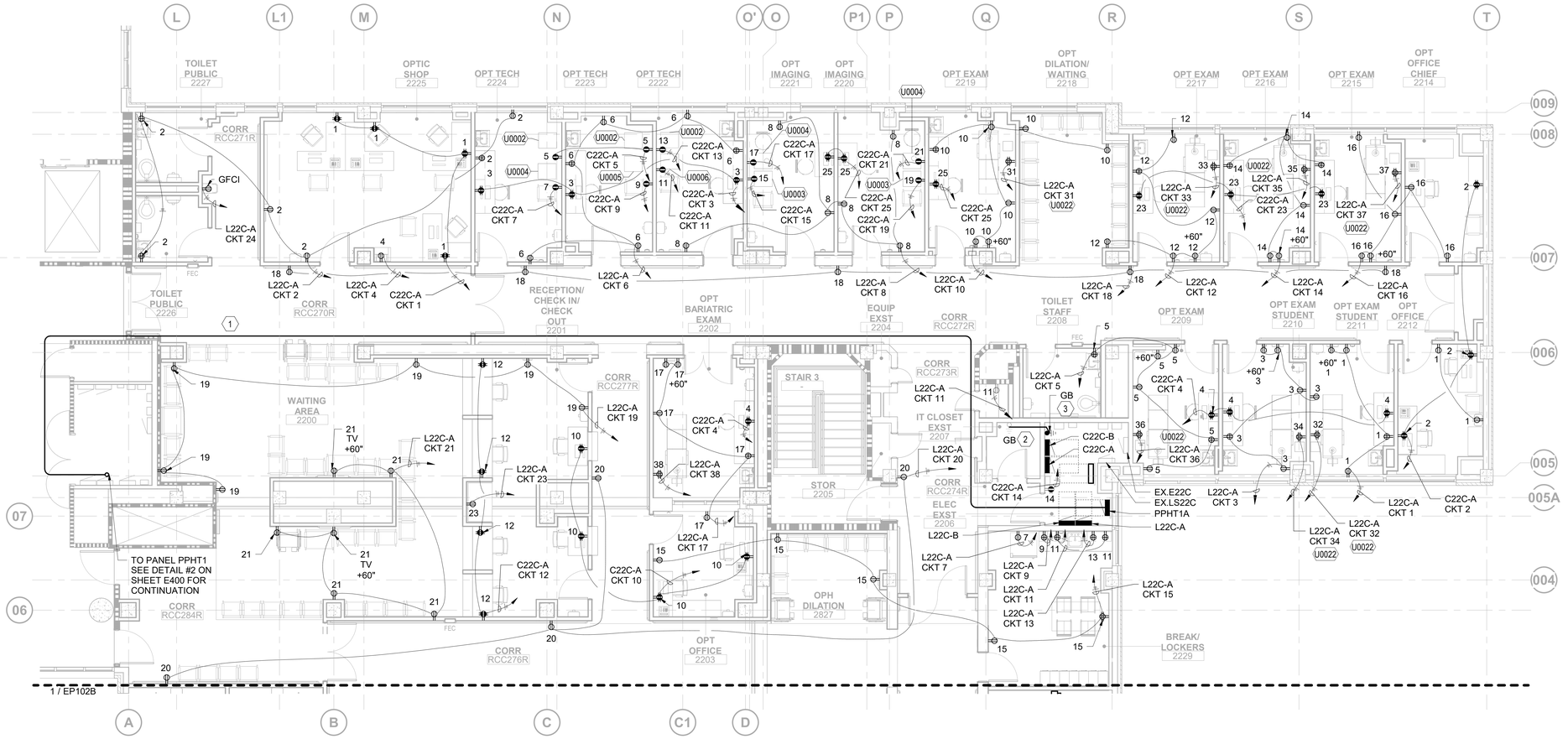
Issue Date: 05/15/2026 | Checked: PTP | Drawn: YY

Project Number: 521-24-102

Building Number: #1

Drawing Number: EP101

VA FORM 08-6231



N

1 ELECTRICAL - POWER PLAN - SECOND FLOOR - 2K, 2B AREAS - ZONE 1

3/16" = 1'-0"

0 8' 16' 24'

ELECTRICAL GENERAL NOTES

A. CONTRACTOR SHALL PROVIDE LABELS ON EACH RECEPTACLE FACEPLATE INDICATING SERVICE PANEL AND CIRCUIT NUMBER.

B. COORDINATE AND CO-LOCATE WALL MOUNTED RECEPTACLES LOCATION WITH VOICE / DATA OUTLETS SHOWN ON T SERIES DRAWING. OUTLETS BOXES MOUNTED BACK-TO-BACK OUTLET BOXES INSTALLED WITHIN THE SAME WALL ARE PROHIBITED.

C. PROVIDE GFCI OUTLET WITHIN A 6-FOOT RADIUS OF THE OUTSIDE EDGE OF ALL SINK AND WATER OUTLETS.

D. REFER TO WIRE AND CONDUIT SIZE TABLE ON DRAWING E001 AND PROVIDE BRANCH WIRING AND CONDUIT ACCORDINGLY.

E. ALL THE RECEPTACLES SHALL BE HOSPITAL GRADE. ALL EMERGENCY/CRITICAL POWER RECEPTACLES SHALL BE RED IN COLOR. IN PATIENT ROOMS WITHOUT GENERAL ILLUMINATION CONNECTED TO EMERGENCY POWER, EMERGENCY RECEPTACLES SHALL BE OF THE SELF ILLUMINATED TYPE.

F. ALL THE EMERGENCY QUADRUPLEX RECEPTACLES SERVING COMPUTER EQUIPMENT SHALL BE MOUNTED AT 44" HEIGHT IN THE EXAM ROOMS, OPT IMAGING ROOMS AND OPT TECH ROOMS .

(#) ELECTRICAL KEY NOTES

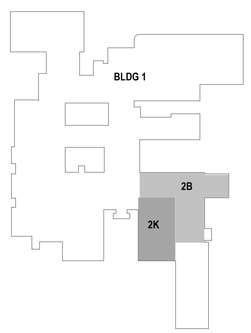
1. REFER TO SHEET E400 FOR SOURCE PANEL LOCATION AND PROVIDE NEW CABLE AND CONDUIT SIZE AS SHOWN ON SHEET E500.
2. CONNECT EXISTING BUSBAR TO NEW BUSBAR USING #4/O GREEN INSULATED STRANDED COPPER CONDUCTOR IN 3/4"C.
3. PROVIDE 18"X4"X1/4" THICK COPPER GROUND BUSBAR ON 2" INSULATED BUSHING. BOND ALL THE PANELS (EXISTING AND NEW) AND ITS GROUND BUS TO BUSBAR WITH #4 GREEN INSULATED COPPER CONDUCTOR IN 3/4". PROVIDE EARTHING CONNECTION BETWEEN BUSBARS AND BUILDING STEEL.

ELECTRICAL LEGEND

FIRE RATED WALL

ITEMS WITH LIGHT SOLID LINE INDICATES DEVICES THAT ARE EXISTING TO REMAIN.

ITEMS WITH DARK SOLID LINE INDICATES THAT CONTRACTOR SHALL FURNISH AND INSTALL NEW AS SPECIFIED.



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062-036261
05/15/2026
STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER PLAN SECOND FLOOR - 2K, 2B AREAS - ZONE 1

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

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Drawn: YY

Project Number: 521-24-102

Building Number: #1

Drawing Number: EP102A

VA FORM 08-6231

ELECTRICAL GENERAL NOTES

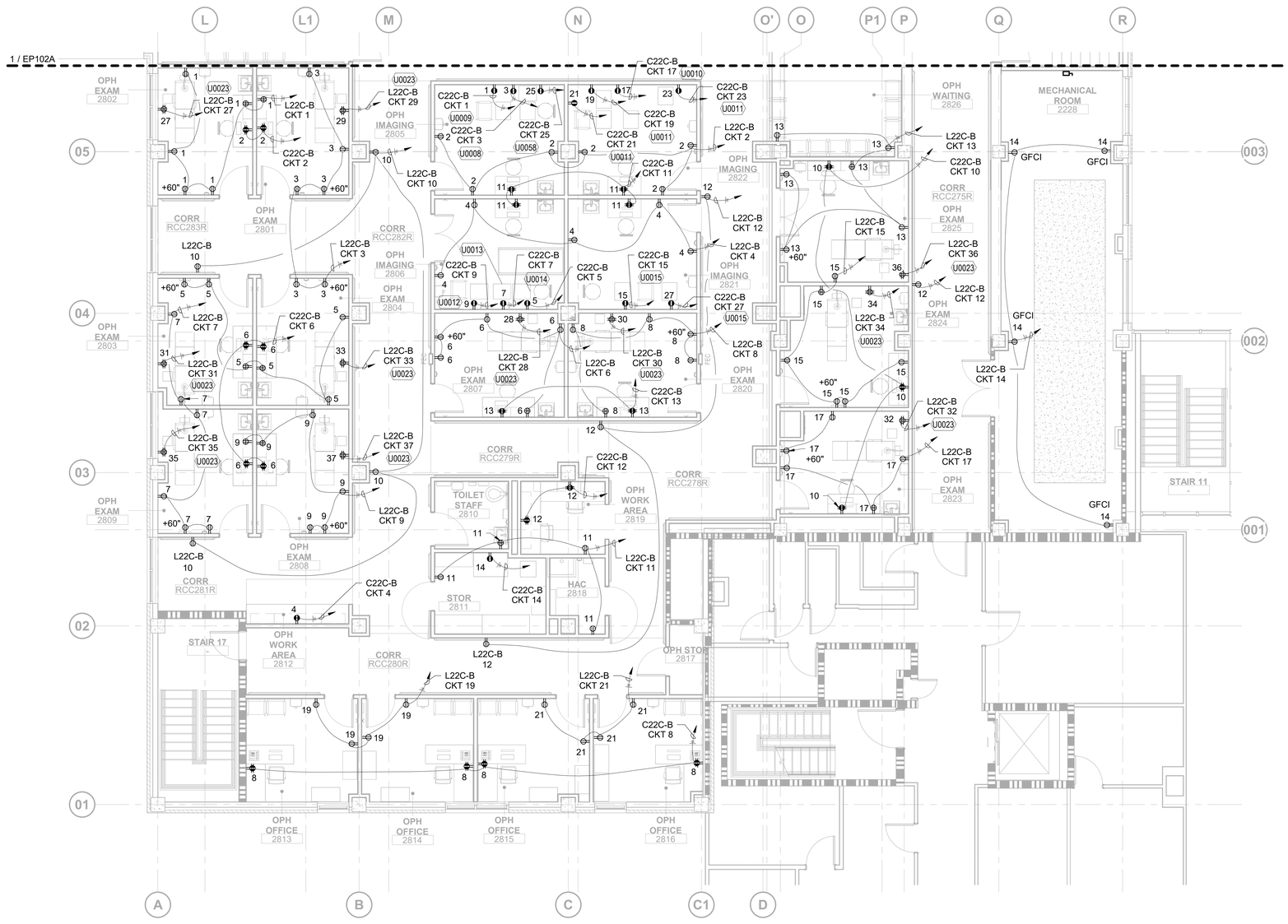
A. REFER TO SHEET EP102A.

ELECTRICAL LEGEND

FIRE RATED WALL

ITEMS WITH LIGHT SOLID LINE INDICATES DEVICES THAT ARE EXISTING TO REMAIN.

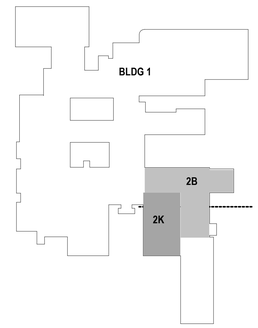
ITEMS WITH DARK SOLID LINE INDICATES THAT CONTRACTOR SHALL FURNISH AND INSTALL NEW AS SPECIFIED.



1 **ELECTRICAL - POWER PLAN - SECOND FLOOR - 2K, 2B AREAS - ZONE 2**

3/16" = 1'-0"

0 8' 16' 24'



KEYPLAN

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

CONSULTANT

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5/15/2026
STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - POWER PLAN SECOND FLOOR - 2K, 2B AREAS - ZONE 2

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: PTP

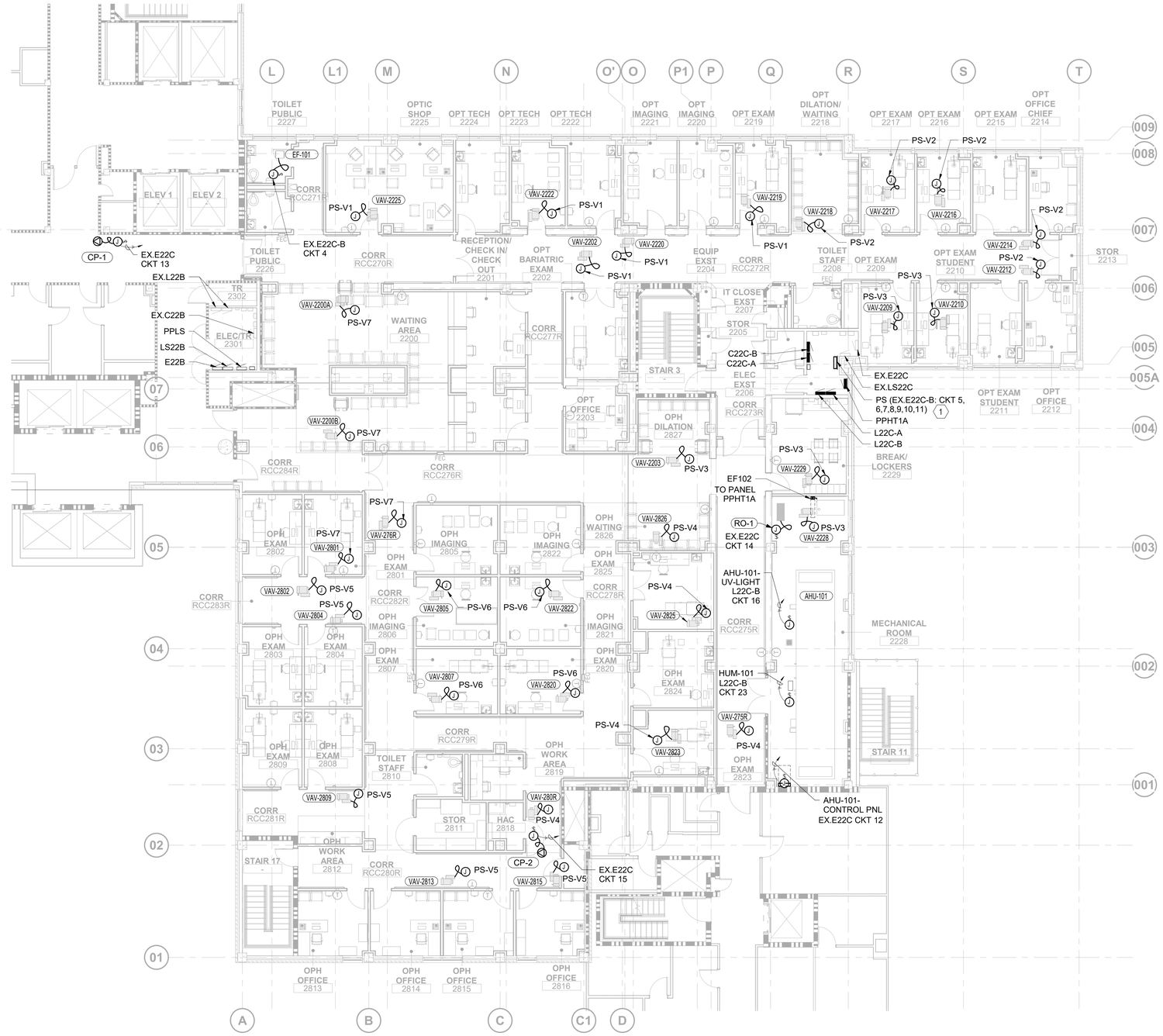
Drawn: YY

Project Number: 521-24-102

Building Number: #1

Drawing Number: EP102B

VA FORM 08-6231



N

1 **ELECTRICAL - HVAC POWER PLAN - SECOND FLOOR - 2K, 2B AREA**

1/8" = 1'-0"

0 4' 8' 16'

ELECTRICAL GENERAL NOTES

A. COORDINATE WITH MECHANICAL DRAWINGS FOR THERMOSTAT LOCATIONS. PROVIDE A JUNCTION BOX WITH A 3/4" CONDUIT STUB-UP ABOVE THE CEILING AT EACH WALL-MOUNTED THERMOSTAT LOCATION. THERMOSTATS AND ASSOCIATED CONTROL WIRING FURNISHED BY THE CONTROL CONTRACTOR.

B. PROVIDE CEILING-MOUNTED JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO EACH VAV BOX CONTROLLER. INSTALL THE JUNCTION BOX IN AN ACCESSIBLE LOCATION ADJACENT TO EACH VAV BOX.

C. REFER TO MECHANICAL SHEETS, DIVISION 23 SPECIFICATIONS, AND CONTROL DIAGRAMS. THE DIVISION 26 CONTRACTOR SHALL PROVIDE ALL RACEWAYS, CONDUCTORS, BACK BOXES, AND SWITCHES FOR POWER CIRCUITS 120 VOLT AND ABOVE. THE DIVISION 23 CONTRACTOR SHALL PROVIDE ALL RACEWAYS, CONDUCTORS, AND BACK BOXES FOR ALL LOW-VOLTAGE DEVICES AND EQUIPMENT.

D. PROVIDE VFD RATED CABLES FOR ALL VFD'S IN THE PROJECT. VFD RATED CABLE SHALL BE FROM PANEL TO EQUIPMENT TO FINAL CONNECTION.

E. COORDINATE WITH RESPECTIVE CONTRACTOR FOR ALL SAFETY SWITCHES, STARTER, AND VFD'S, AND PROVIDE INSTALLATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC).

F. BASIS OF DESIGN FOR LOW VOLTAGE POWER FOR VAV CONTROLLERS SHALL BE BASED ON ONE (1) 500 VA POWER SUPPLY SERVING A GROUP OF FIVE (5) VAV CONTROLLERS. PROVIDE A NEMA TYPE 1 ENCLOSURE FOR EACH POWER SUPPLY INSTALLATION. A TOTAL OF SEVEN (7) POWER SUPPLIES SHALL BE FURNISHED AND INSTALLED BY THE CONTROLS CONTRACTOR. EACH POWER SUPPLY SHALL BE WIRED WITH (2) #12 AWG AND (1) #12 GND IN A 3/4" CONDUIT, AS INDICATED ON THE DRAWINGS. ANY DEVIATION AND CHANGES FROM THE THIS BASIS OF DESIGN SHALL BE RESPONSIBILITY OF THE CONTROLS CONTRACTOR, WHO SHALL COORDINATE ALL MODIFICATIONS WITH THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE VA.

G. REFER TO PANEL SCHEDULES AND PROVIDE LINE-VOLTAGE POWER TO RO-1, HUM-101, CP-1, CP-2, AHU-UV LIGHTS, AHU CONTROL PANEL, AND EF-101 AS SHOWN. PROVIDE A JUNCTION BOX WITH DISCONNECT SWITCH AND 2 #12 & 1 #12 GND IN 3/4"C FOR EACH PIECE OF EQUIPMENT. REFER TO EQUIPMENT SHOP SUBMITTALS FOR SPECIFIC POWER CONNECTION TYPE REQUIREMENTS.

(#) ELECTRICAL KEY NOTES

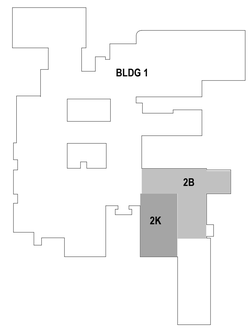
1. REFER TO PANEL SCHEDULE ON SHEET E601 AND E602 FOR PANEL LOCATION INFORMATION.

ELECTRICAL LEGEND

FIRE RATED WALL

ITEMS WITH LIGHT SOLID LINE INDICATES DEVICES THAT ARE EXISTING TO REMAIN.

ITEMS WITH DARK SOLID LINE INDICATES THAT CONTRACTOR SHALL FURNISH AND INSTALL NEW AS SPECIFIED.



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LICENSED PROFESSIONAL ENGINEER
WALTER J. GROSZKO
062-036261
STATE OF ILLINOIS
05/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - HVAC POWER PLAN - SECOND FLOOR - 2K, 2B AREA

Approved: Project Director

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

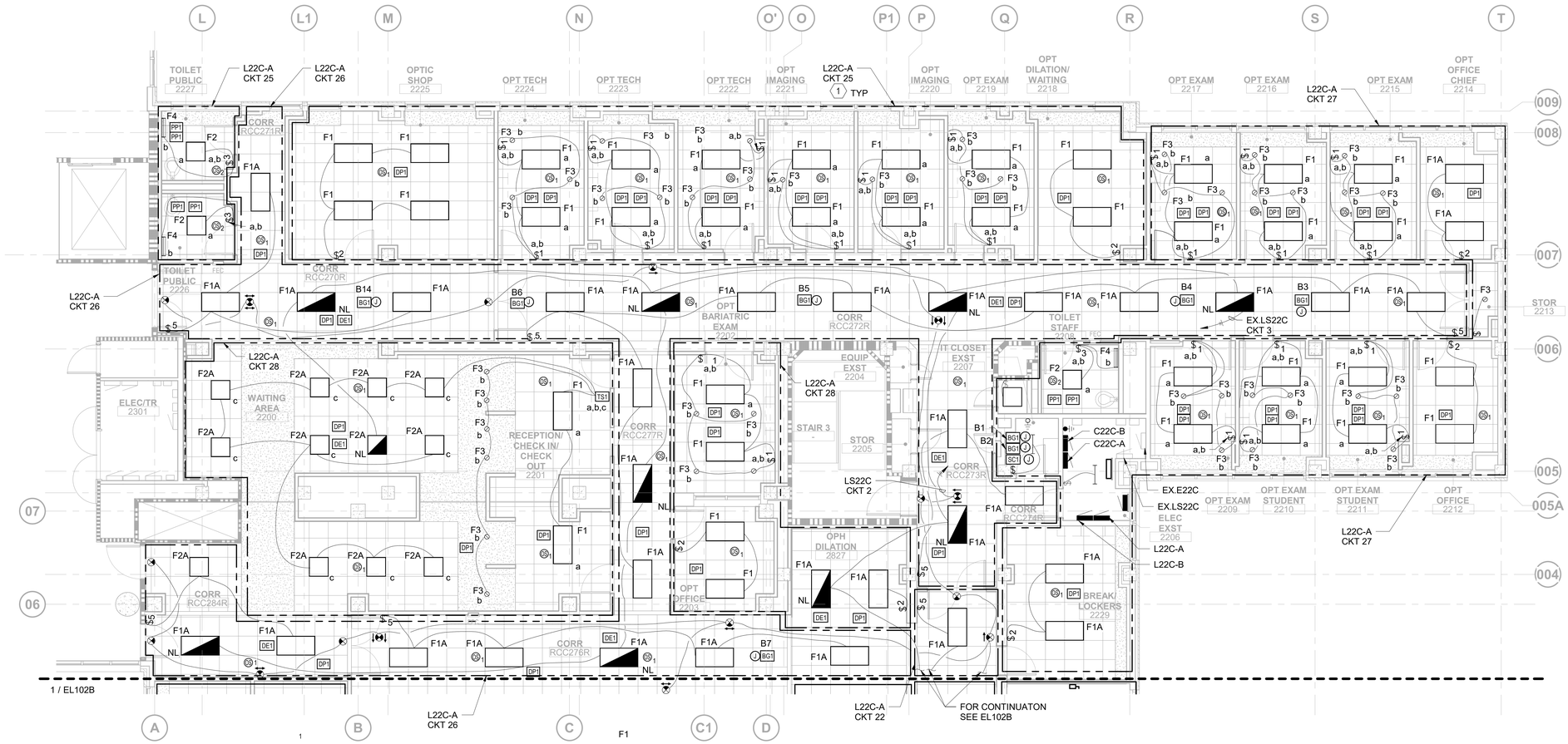
Issue Date: 05/15/2026 | Checked: PTP | Drawn: YY

Project Number: 521-24-102

Building Number: #1

Drawing Number: EH102

VA FORM 08-6231



ELECTRICAL - LIGHTING PLAN - SECOND FLOOR - 2K, 2B AREAS - ZONE 1

3/16" = 1'-0"

0 8' 16' 24'

ELECTRICAL GENERAL NOTES

A. REFER TO PANEL SCHEDULE ON E601 AND E602, AND LIGHTING FIXTURE SCHEDULE ON E600 FOR PANEL/CIRCUIT LOCATION AND LIGHT FIXTURE TYPE INFORMATION.

B. UNLESS OTHERWISE NOTED NIGHT (EGRESS) LIGHTS SHALL BE WIRED VIA UL924 RELAY.

C. CONTRACTOR SHALL PROVIDE SEPARATE CONDUIT FOR EMERGENCY EGRESS LIGHTS AND EXIT SIGNS.

D. CONTRACTOR SHALL REFER TO DRAWING E600 FOR LIGHT FIXTURE AND LIGHT CONTROL DEVICE SCHEDULE, AS WELL AS THE LIGHTING CONTROL NARRATIVE AND BASIS OF DESIGN NOTES..

E. ALL NIGHT LIGHTS ARE CONNECTED TO LIFE SAFETY PANEL LS22C CIRCUIT #1.

F. ALL EXIT SIGN LIGHTS ARE CONNECTED TO LIFE SAFETY PANEL LS22C CIRCUIT #2.

G. THE CONNECTION LINE WORK SHOWN HERE IS FOR SWITCHING ARRANGEMENT ONLY. FOR DETAILED 0-10 DIMMING, CAT-6, AND POWER WIRING, REFER TO THE TYPICAL DETAIL ON SHEET E600 AND LIGHTING CONTROL RISER PROVIDED AS SEPARATE REPORT AND INCLUDED WITH THE WITH THE LIGHTING CONTROL SPECIFICATION. ALL THE WIRING SHALL BE INSTALLED IN CONDUIT. LOW-VOLTAGE CONDUIT SHALL BE INSTALLED SEPARATELY FROM LINE-VOLTAGE CONDUIT.

H. POWER SUPPLIES FOR ALL LIGHTING CONTROL DEVICES SHALL BE PROVIDED BY THE LIGHTING VENDOR. REFER TO LIGHTING CONTROL RISER DIAGRAM PROVIDED WITH THIS SET FOR REQUIRED QUANTITIES, AND PROVIDE JUNCTION BOXES AND LOCATE IN ACCESSIBLE LOCATIONS. REFER TO PANEL SCHEDULE FOR LINE VOLTAGE POWER REQUIREMENTS FOR ALL LIGHTING CONTROL DEVICES.

I. UL934 DEVICES ASSOCIATED WITH EGRESS LIGHTING SHALL BE POWERED FROM BOTH THE NORMAL POWER SOURCE ASSIGNED TO THE AREA AND LIFE SAFETY POWER SOURCE AS SHOWN.

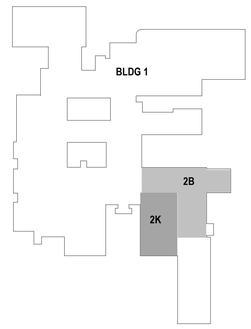
J. REFER TO WIRE AND CONDUIT SIZE TABLE ON DRAWING E001 AND PROVIDE BRANCH WIRING AND CONDUIT ACCORDINGLY.

(#) ELECTRICAL KEY NOTES

1. ALL THE LIGHT ARE FED FROM THE PANEL AND CIRCUIT ASSIGNED FOR THAT AREA. REFER TO PANEL SCHEDULE THIS SET FOR MORE INFORMATION.

ELECTRICAL LEGEND

- FIRE RATED WALL
- ITEMS WITH LIGHT SOLID LINE INDICATES DEVICES THAT ARE EXISTING TO REMAIN.
- ITEMS WITH DARK SOLID LINE INDICATES THAT CONTRACTOR SHALL FURNISH AND INSTALL NEW AS SPECIFIED.
- ELECTRICAL PANEL DIVIDE LINE



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Bancroft Project No. 23-135

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LICENSED PROFESSIONAL ENGINEER
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05/15/2026
STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - LIGHTING PLAN - SECOND FLOOR - 2K, 2B AREAS - ZONE 1

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: PTP

Drawn: YY

Drawing Number: EL102A

VA FORM 08-6231

ELECTRICAL GENERAL NOTES

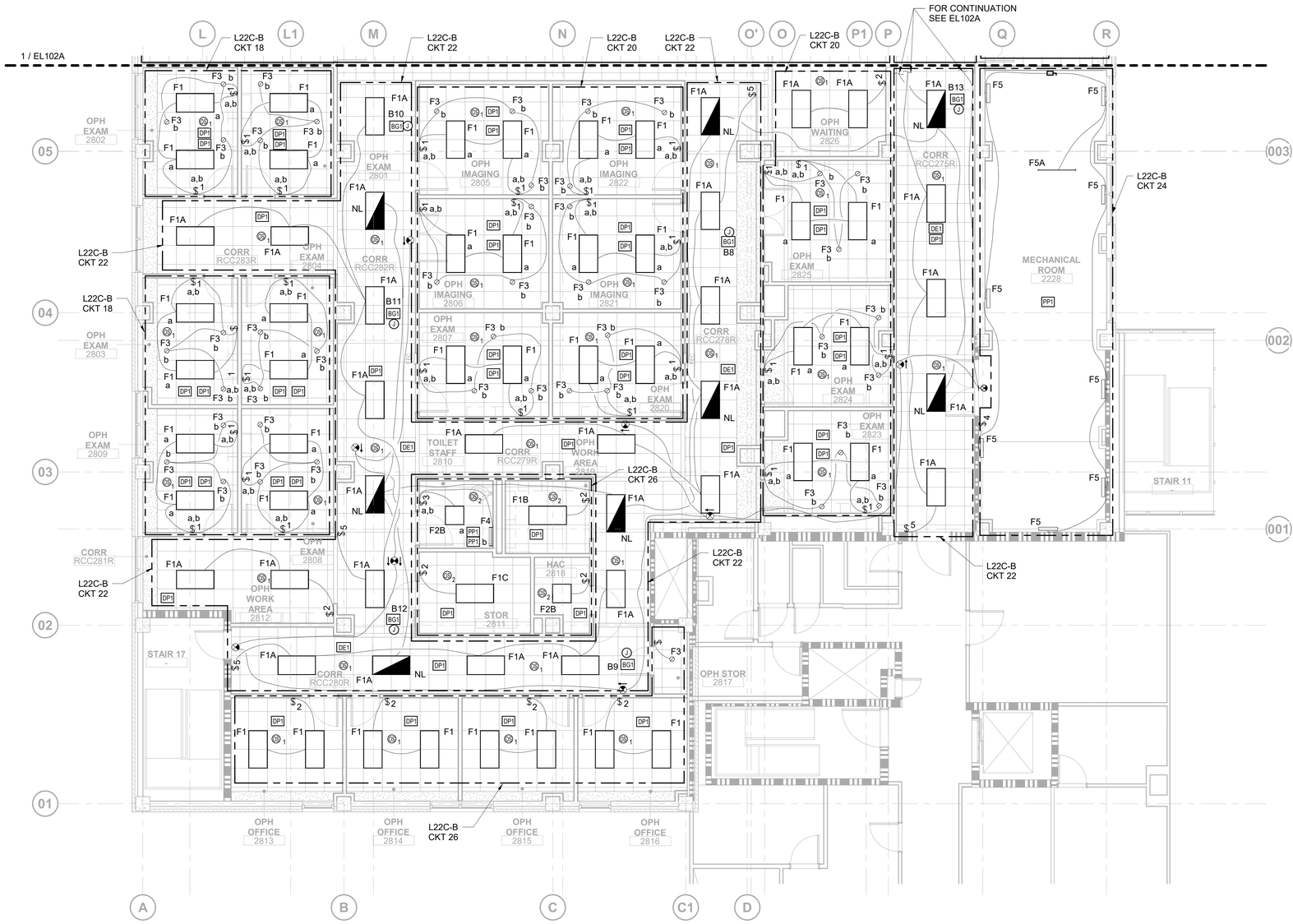
A. FOR GENERAL NOTES REFER TO SHEET EL102A.
.

ELECTRICAL KEY NOTES

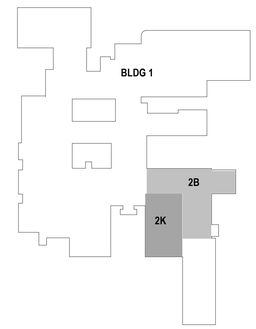
1. ALL THE LIGHT ARE FED FROM THE PANEL AND CIRCUIT ASSIGNED FOR THAT AREA. REFER TO PANEL SCHEDULE THIS SET FOR MORE INFORMATION.

ELECTRICAL LEGEND

- FIRE RATED WALL
- ITEMS WITH LIGHT SOLID LINE INDICATES DEVICES THAT ARE EXISTING TO REMAIN.
- ITEMS WITH DARK SOLID LINE INDICATES THAT CONTRACTOR SHALL FURNISH AND INSTALL NEW AS SPECIFIED.
- ELECTRICAL PANEL DIVIDE LINE



1 **ELECTRICAL - LIGHTING PLAN - SECOND FLOOR - 2K, 2B AREAS - ZONE 2**
3/16" = 1'-0"



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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL - LIGHTING PLAN - SECOND FLOOR - 2K, 2B AREAS - ZONE 2
Phase	ISSUED FOR BID
Approved: Project Director	
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Project Number	521-24-102
Building Number	#1
Location	BIRMINGHAM VAMC
Drawing Number	EL102B
Issue Date	05/15/2026
Checked	PTP
Drawn	YY

VA FORM 08-6231

ELECTRICAL GENERAL NOTES

A. ALL THE PANEL SHOWN ON THIS DRAWING ARE EXISTING SHALL REMAIN IN PLACE. COORDINATE WITH SINGLE LINE DIAGRAM E500, AND PROVIDE FIELD ROUTED NEW CONDUIT FROM THESE LOCATIONS TO THE NEW PANEL(S) AS INDICATED. ANY FIELD ROUTING SHALL BE VERIFIED AND COORDINATED PRIOR TO INSTALLATION.

ELECTRICAL LEGEND

ITEMS WITH LIGHT SOLID LINE INDICATES DEVICES THAT ARE EXISTING TO REMAIN.

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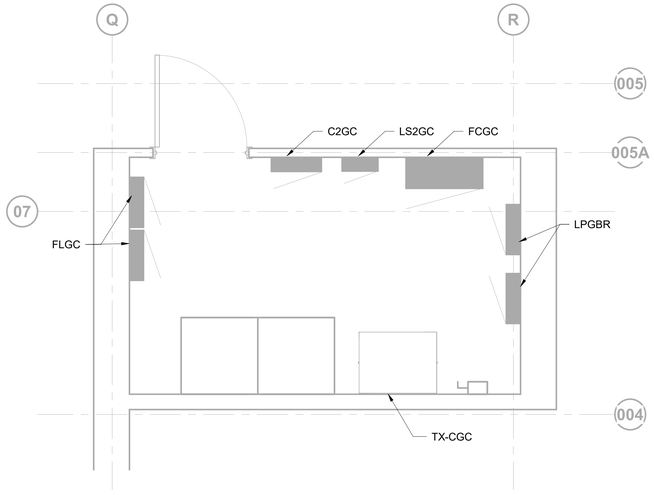
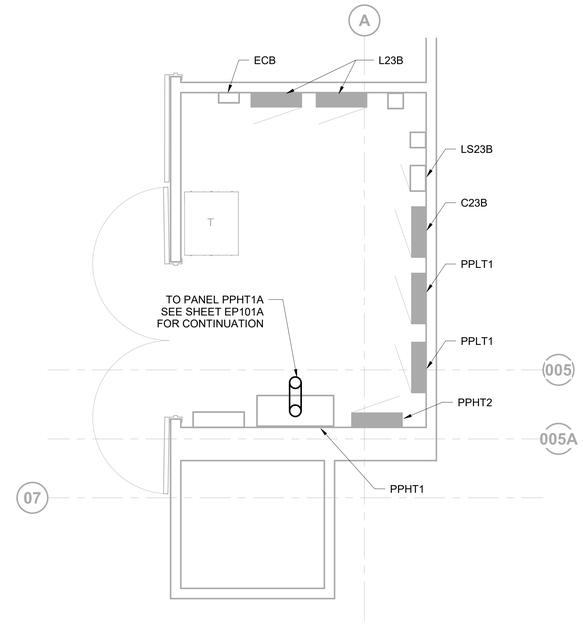


N 1 **ELECTRICAL - ENLARGED PLAN - GROUND FLOOR - ELEC G208**

1/2" = 1'-0"

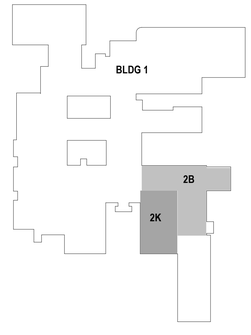
0 1' 2' 4'



N 2 **ELECTRICAL - ENLARGED PLAN - THIRD FLOOR - ELEC 3301**

1/2" = 1'-0"

0 1' 2' 4'



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5/15/2026
STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL - ENLARGED PLAN

Phase: ISSUED FOR BID

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number: 521-24-102

Building Number: #1

Approved: Project Director

Location: BIRMINGHAM VAMC

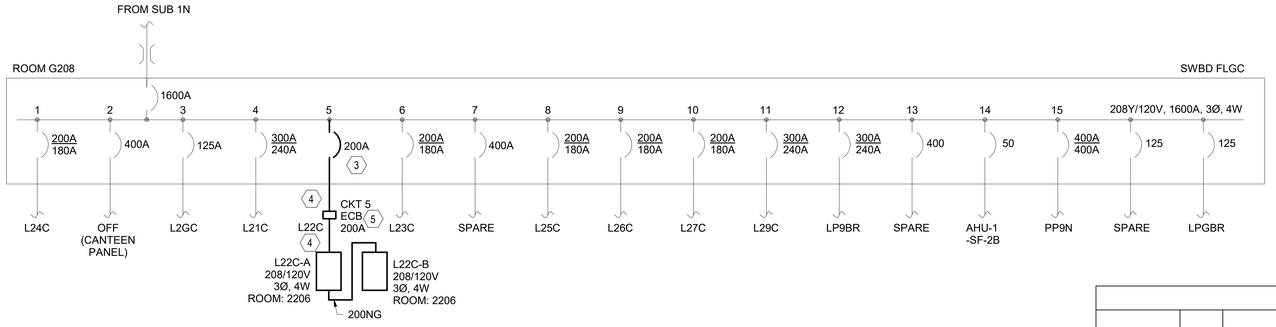
Issue Date: 05/15/2026

Checked: Checker

Drawn: Author

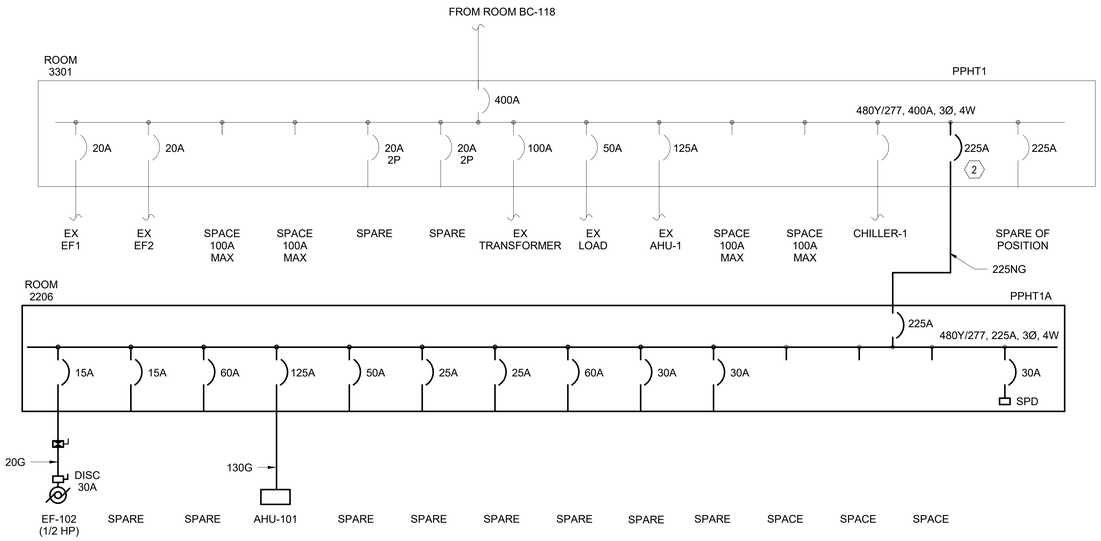
Drawing Number: E400

VA FORM 08-6231



1 ELECTRICAL - SINGLE LINE DIAGRAM - NORMAL POWER

NOT TO SCALE



2 ELECTRICAL - SINGLE LINE DIAGRAM - NORMAL 480V

NOT TO SCALE

COPPER FEEDER SCHEDULE

FEEDER DESIGNATION	No. OF SETS	PHASE CONDUCTOR (PER SET)	N NEUTRAL CONDUCTOR (PER SET)	G GROUND CONDUCTOR (PER SET)	SG SYSTEM BONDING JUMPER (PER SET)	I ISOLATED GROUND CONDUCTOR (PER SET)		CONDUIT SIZE - CONDUIT TYPES EMT, FMC, LFMC, IMC, RMC, SCH 40 PVC		
								3 PHASE NEUTRAL & GROUND 'NG', 'NSG' 'PG','PSG' (PER SET)	3 PHASE & GROUND 'G' (PER SET)	3 PHASE NEUTRAL, GROUND & ISOLATED GROUND 'NGI','NSGI' (PER SET)
15	1	3 #12	1 #12	1 #12	1 #8	1 #12		3/4"	3/4"	3/4"
20	1	3 #12	1 #12	1 #12	1 #8	1 #12		3/4"	3/4"	3/4"
30	1	3 #10	1 #10	1 #10	1 #8	1 #10		3/4"	3/4"	3/4"
40/50	1	3 #8	1 #8	1 #10	1 #8	1 #10		3/4"	3/4"	1"
60	1	3 #6	1 #6	1 #10	1 #8	1 #10		1"	3/4"	1"
70/80	1	3 #4	1 #4	1 #8	1 #8	1 #8		1 1/4"	1"	1 1/4"
100	1	3 #2	1 #2	1 #8	1 #8	1 #8		1 1/4"	1 1/4"	1 1/2"
115	1	3 #2	1 #2	1 #6	1 #8	1 #6		1 1/4"	1 1/4"	1 1/2"
130	1	3 #1	1 #1	1 #6	1 #6	1 #6		1 1/2"	1 1/2"	1 1/2"
150	1	3 #1/0	1 #1/0	1 #6	1 #6	1 #6		2"	1 1/2"	2"
175	1	3 #2/0	1 #2/0	1 #6	1 #4	1 #6		2"	1 1/2"	2"
200	1	3 #3/0	1 #3/0	1 #6	1 #4	1 #6		2"	2"	2"
225	1	3 #4/0	1 #4/0	1 #4	1 #2	1 #4		2 1/2"	2"	2 1/2"
250	1	3 #250	1 #250	1 #4	1 #2	1 #4		2 1/2"	2"	2 1/2"
300	1	3 #350	1 #350	1 #4	1 #2	1 #4		3"	2 1/2"	3"
350	1	3 #500	1 #500	1 #3	1 #1/0	1 #3		4"	3"	4"
400	2	3 #3/0	1 #3/0	1 #3	1 #1/0	1 #3		2"	2"	2 1/2"
460	2	3 #4/0	1 #4/0	1 #2	1 #1/0	1 #2		2 1/2"	2"	2 1/2"
500	2	3 #250	1 #250	1 #2	1 #1/0	1 #2		2 1/2"	2 1/2"	3"
600	2	3 #350	1 #350	1 #1	1 #2/0	-		3"	2 1/2"	-

EXAMPLES:
1. 150NG = INDICATES 1 SET OF 4# 1/0 + 1# 6 GROUND CONDUCTOR PER SET.
2. 500P = INDICATES 2 SETS OF 3 # 250KCMIL AND 1 # 1/0 PARTIAL NEUTRAL CONDUCTOR PER SET.
3. 300NNG = INDICATES 5 # 350KCMIL AND 1 # 4 GROUND CONDUCTOR.

ELECTRICAL GENERAL NOTES

A. CONTRACTOR SHALL PERFORM A COORDINATION STUDY FOR ALL NEW CIRCUIT BREAKERS. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED BY THE RESULTS OF THE STUDY. ADDITIONALLY, THE CONTRACTOR SHALL PERFORM ARC FLASH AND SHORT-CIRCUIT STUDIES AND PROVIDE ARC FLASH WARNING LABELS ON ALL EQUIPMENT AS REQUIRED BY THE LATEST NFPA 70E. LABELS SHALL INCLUDE THE MAXIMUM AVAILABLE FAULT CURRENT WITH THE DATE THE FAULT CURRENT STUDY WAS PERFORMED, IN ACCORDANCE WITH NEC REQUIREMENTS.

B. PROVIDE A CONTINUOUS INSULATED #6 AWG COPPER EQUIPMENT GROUNDING CONDUCTOR IN 3/4" INCH CONDUIT. BOND THE EQUIPMENT GROUNDING BUSBARS OF THE NORMAL AND ESSENTIAL BRANCH PANELBOARDS (LS, CR, AND EQ) TOGETHER IN ACCORDANCE WITH NEC REQUIREMENTS. FIELD MARK THE CONDUIT BY SPRAY PAINTING IT GREEN FOR IDENTIFICATION.

C. PROVIDE INTEGRAL SURGE PROTECTIVE DEVICES (SPDS) FOR ALL NEW PANELBOARDS.

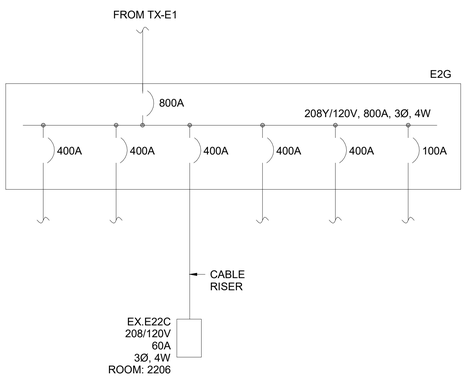
(#) ELECTRICAL KEY NOTES

1. CONTRACTOR TO CHANGE LABEL ON ENCLOSED CIRCUIT BREAKER TO READ "FEED FROM 100A BREAKER".
2. CONTRACTOR SHALL PROVIDE SIEMENS FXD6 TYPE CIRCUIT BREAKER.
3. CONTRACTOR SHALL PROVIDE NEW 200A RATED CIRCUIT BREAKER TO MATCH EXISTING TYPE. ALTERNATIVELY, PROVIDE NEW TRIP SENSOR TO MATCH EXISTING TYPE AND SET IT TO 200A (1.0X=200A).
4. CONTRACTOR SHALL REMOVE AND DEMOLISH EXISTING CABLE AND PROVIDE NEW CABLE SIZE 200NG AND PULL THROUGH EXISTING CONDUIT.
5. CONTRACTOR SHALL PROVIDE NEW 200A RATED ECB.

ELECTRICAL LEGEND

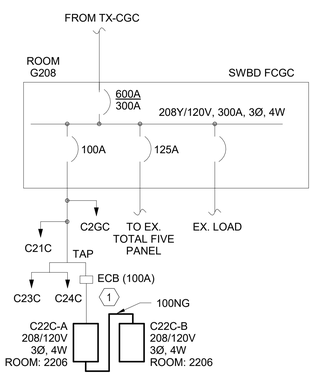
ITEMS WITH LIGHT SOLID LINE INDICATES DEVICES THAT ARE EXISTING TO REMAIN.

ITEMS WITH DARK SOLID LINE INDICATES THAT CONTRACTOR SHALL FURNISH AND INSTALL NEW AS SPECIFIED.



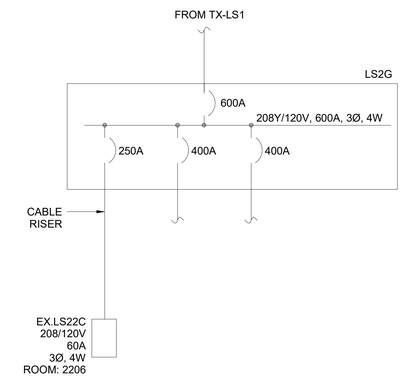
3 ELECTRICAL - EXISTING SINGLE LINE DIAGRAM - EQUIPMENT POWER

NOT TO SCALE



4 ELECTRICAL - SINGLE LINE DIAGRAM - CRITICAL POWER

NOT TO SCALE



5 ELECTRICAL - EXISTING SINGLE LINE DIAGRAM - LIFE SAFETY POWER

NOT TO SCALE

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
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65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
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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 ELECTRICAL - SINGLE LINE DIAGRAM	**Phase** ISSUED FOR BID	**Project Title** RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	**Project Number** 521-24-102
			Building Number #1
Approved: Project Director		**Location** BIRMINGHAM VAMC	**Drawing Number** E500
		Issue Date 05/15/2026 / **Checked** Checker / **Drawn** Author	

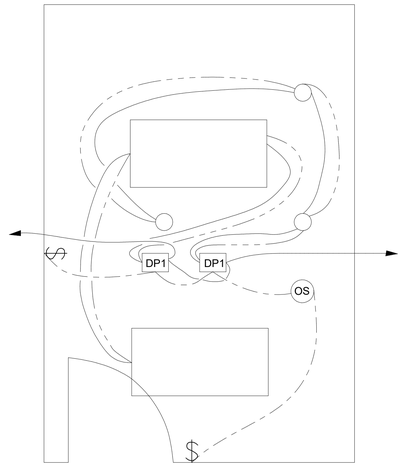
VA FORM 08-6231

LIGHTING FIXTURE SCHEDULE BASIS OF DESIGN								
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	FIXTURE		MOUNTING	REMARKS
				TYPE	INPUT WATTS	VOLTS		
F1	2' X 4' TROFFER	LITHONIA LIGHTING OR VA APPROVED EQUAL	ENVX-2X4-HRG-4800LM-80CRI-35K	LED	40	UNV	RECESSED	
F1A	2' X 4' TROFFER	LITHONIA LIGHTING OR VA APPROVED EQUAL	ENVX-2X4-HRG-3000LM-80CRI-35K	LED	23	UNV	RECESSED	
F1B	2' X 4' TROFFER	LITHONIA LIGHTING OR VA APPROVED EQUAL	ENVX-2X4-HRG-6000LM-80CRI-35K	LED	50	UNV	RECESSED	
F1C	2' X 4' TROFFER	LITHONIA LIGHTING OR VA APPROVED EQUAL	ENVX-2X4-HRG-4000LM-80CRI-35K	LED	33	UNV	RECESSED	
F2	2' X 2' TROFFER	LITHONIA LIGHTING OR VA APPROVED EQUAL	ENVX-2X2-HRG-4000LM-80CRI-35K	LED	36	UNV	RECESSED	
F2A	2' X 2' TROFFER	LITHONIA LIGHTING OR VA APPROVED EQUAL	ENVX-2X2-HRG-2000LM-80CRI-35K	LED	17	UNV	RECESSED	
F2B	2' X 2' TROFFER	LITHONIA LIGHTING OR VA APPROVED EQUAL	ENVX-2X2-HRG-3300LM-80CRI-35K	LED	30	UNV	RECESSED	
F3	4" LED DOWN LIGHT	LITHONIA LIGHTING OR VA APPROVED EQUAL	EVO-35_10-4AR-WD-LSS	LED	9	UNV	RECESSED	
F4	VANITY LIGHT	LITHONIA LIGHTING OR VA APPROVED EQUAL	WL2-12L-LP835-MSD7	LED	12	UNV	WALL	
F5	STRIP LIGHT (WALL MOUNTED)	LITHONIA LIGHTING OR VA APPROVED EQUAL	CLXL24-2500LM-SEF-FDL-MVOLT-GZ10-35K-80CRI	LED	18	UNV	WALL	
F5A	STRIP LIGHT	LITHONIA LIGHTING OR VA APPROVED EQUAL	CLXL48-5000LM-SEF-FDL-MVOLT-GZ10-35K-80CRI	LED	32	UNV	SUSPENDED	
EX1	EXIT	LITHONIA LIGHTING OR VA APPROVED EQUAL	EDG/EDGR-W-1/2-RW-BAA	LED	4	UNV	CEILING / WALL	REFER TO PLAN DRAWING FOR NO. OF FACES & DIRECTIONAL ARROW

GENERAL NOTES:

1. FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS.
2. WHERE UNDERCABINET LIGHTS ARE INSTALLED IN CONTINUOUS ROWS PROVIDE INTEGRAL ROCKER SWITCH CONTROL ON END FIXTURE ONLY, FOR CONTROL OF ENTIRE ROW.
3. ADJUSTABLE AND DIRECTIONAL LIGHTING FIXTURES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND AIMED TO OBTAIN MAXIMUM UNIFORM COVERAGE.
4. LAMP TYPE DESIGNATIONS FOLLOW NEMA DESIGNATION GUIDELINES. COORDINATE LAMP TYPES WITH LAMP NUMBERS FROM MANUFACTURERS APPOVED IN THE SPECIFICATION.
5. MANUFACTURERS' CATALOG NUMBERS ARE INTENTIONALLY INCOMPLETE. VERIFY AND COORDINATE REQUIRED TRIM KITS, MOUNTING HARDWARE.
6. PROVIDE ALL NECESSARY ACCESSORIES FOR FIXTURES AND SENSORS IN ORDER TO ENSURE A COMPLETE AND PROPER OPERATION.
7. PROVIDE FUSING FOR FIXTURES AS REQUIRE BY CODE.
8. LAMPS FOR ALL FIXTURES SHALL HAVE THE SAME COLOR TEMPERATURE PER SPECIFICATIONS.
9. ALL LIGHT FIXTURES SHALL MEET BAA COMPLIANCE.

CONTROL DEVICE SCHEDULE BASIS OF DESIGN			
PLAN SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
$1	nLIGHT ON/OFF + RAISE/LOWER 2-POLE WALLPOD,	ACUITY BRANDS OR VA APPROVED EQUAL	NPODMA 2P DX IV BAA
$2	nLIGHT ON/OFF + RAISE/LOWER WALLPOD	ACUITY BRANDS OR VA APPROVED EQUAL	NPODMA DX IV BAA
$3	nLIGHT WIRED WALLPOD, 2-POLE	ACUITY BRANDS OR VA APPROVED EQUAL	NPODMA 2P IV BAA
$4	nLIGHT WIRED WALLPOD	ACUITY BRANDS OR VA APPROVED EQUAL	NPODMA IV BAA
$5	DIGITAL KEYSWITCH	ACUITY BRANDS OR VA APPROVED EQUAL	NPODA KEY MNTN STS BAA
BG1	nLIGHT BRIDGE, 8 PORTS, KIT	ACUITY BRANDS OR VA APPROVED EQUAL	NBRG 8 KIT BAA
DE1	EMERGENCY POWER/RELAY PACK DIMMING MODULE	ACUITY BRANDS OR VA APPROVED EQUAL	NPP 16 D ER EFP BAA
DP1	POWER/RELAY PACK DIMMING MODULE	ACUITY BRANDS OR VA APPROVED EQUAL	NPP 16 D EFP BAA
OS1	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNT SENSOR	ACUITY BRANDS OR VA APPROVED EQUAL	NCM PDT 10 RJB BAA
OS2	LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNT SENSOR	ACUITY BRANDS OR VA APPROVED EQUAL	NCM PDT 9 RJB BAA
PP1	POWER/RELAY PACK EXTERNAL FAULT PROTECTION	ACUITY BRANDS OR VA APPROVED EQUAL	NPP16 EFP BAA
SC1	NECY nLIGHT ECLYPSE LIGHTING CONTROL	ACUITY BRANDS OR VA APPROVED EQUAL	NECY MVOLT BAC ENC NW GFXK BAA
TS1	nLIGHT TOUCH SCREEN	ACUITY BRANDS OR VA APPROVED EQUAL	NTS 7IN WH BAA



1 **WIRING DIAGRAM FOR TYPICAL TWO ZONE ROOM**
NOT TO SCALE

ELECTRICAL GENERAL NOTES

A. LIGHTING FIXTURES AND LIGHTING CONTROL BASIS OF DESIGN IS LITHONIA nLIGHT WIRED CONTROL SOLUTION. REFER TO SPECIFICATION 26 09 23 ATTACHMENT FOR BASIS OF DESIGN RISER DIAGRAMS..

LIGHTING CONTROL NARRATIVE

1. TOILETS
PROVIDE TWO-ZONE SWITCHING WITH OCCUPANCY SENSORS. BOTH ZONES SHALL AUTOMATICALLY TURN OFF AFTER 20 MINUTES OF NO DETECTED OCCUPANCY.

2. OPTIC SHOP AND DILATION ROOM
PROVIDE SINGLE-ZONE DIMMING CONTROL WITH AUTOMATIC ON TO 100%. MANUAL DIMMING SHALL BE AVAILABLE TO STAFF. SYSTEM SHALL RETAIN (HOLD) LAST DIMMING LEVEL SETTING.

3. TECH / EXAM / IMAGING ROOMS
PROVIDE TWO-ZONES OF DIMMING WITH OCCUPANCY SENSORS. UPON OCCUPANCY DETECTION, LIGHTS SHALL TURN ON TO 50%. BOTH ZONES SHALL AUTOMATICALLY TURN OFF AFTER 20 MINUTES OF NO DETECTED OCCUPANCY.

4. OFFICES, WORK AREA, BREAK ROOM, HAC, STORE ROOMS
PROVIDE SINGLE ZONE DIMMING WITH AUTO ON TO 50%. TURN LIGHTS OFF AFTER 20 MINUTES OF NO MOTION.

5. CORRIDORS
PROGRAM CORRIDOR LIGHTING AS A GLOBAL ZONE WITH TIMECLOCK SCHEDULING, CONTROLLABLE VIA KEY SWITCHES AND RECEPTION TOUCHSCREEN.
STANDARD OPERATING MODE (1 HOUR BEFORE BUSINESS OPENING THROUGH 1 HOUR AFTER BUSINESS CLOSING): LIGHTS SHALL AUTOMATICALLY TURN ON TO 100% UPON OCCUPANCY AND REDUCE TO 50% AFTER 20 MINUTES OF NO OCCUPANCY.
AFTER-HOURS MODE: LIGHTS SHALL AUTOMATICALLY TURN ON TO 80% UPON OCCUPANCY. UPON NO OCCUPANCY, NORMAL LIGHTING SHALL TURN OFF WHILE EMERGENCY LIGHTING REMAINS ON AT 50%.
NIGHTLIGHT/EMERGENCY LIGHTS SHALL FOLLOW NORMAL DIMMING AND OCCUPANCY LOGIC. IN THE EVENT OF NORMAL POWER FAILURE, NIGHTLIGHT/EMERGENCY LIGHTING SHALL AUTOMATICALLY TURN ON TO 100% IN UL924 COMPLIANT MODE.
PROVIDE TOUCHSCREEN OVERRIDE BUTTON TO FORCE CORRIDOR LIGHTING TO FULL ON FOR A 2-HOUR DURATION.

6. RECEPTION / WAITING AREA
PROGRAM AS A GLOBAL CONTROL ZONE WITH TIME BASED SCHEDULING AND TOUCHSCREEN CONTROL.
PROVIDE TWO TOUCHSCREEN OVERRIDE BUTTONS TO MAINTAIN FULL ON LIGHTING IN WAITING AND RECEPTION AREA FOR 2 HOURS.
PROVIDE TOUCHSCREEN SLIDERS FOR DIMMING CONTROL OF WAITING AREA (NORMAL AND EMERGENCY TIED TOGETHER), RECEPTION DOWNLIGHTS, AND RECEPTION 2X4 FIXTURES.
AT BUSINESS OPENING, TIMECLOCK SHALL SET WAITING AND RECEPTION AREA TO 100% ON.
DURING THE BUSINESS HOURS, OCCUPANCY SENSORS SHALL BE DISABLED (MASKED).
AFTER HOURS, LIGHTING SHALL AUTOMATICALLY TURN ON TO 80% UPON OCCUPANCY AND REDUCE TO OFF WHEN UNOCCUPIED FOR 20 MINUTES. EMERGENCY LIGHTS SHALL REMAIN AT 50%.

7. SITE ADJUSTMENTS AND PROGRAMMING
PROVIDE COMPLETE LIGHTING CONTROL PROGRAMMING BY A FACTORY-TRAINED TECHNICIAN. INCLUDE ONE ADDITIONAL SITE VISIT APPROXIMATELY 3 MONTHS AFTER OCCUPANCY FOR SYSTEM SCHEDULE VERIFICATION, AND ADJUSTMENT OF TIMECLOCK SETTINGS AND DIMMING PARAMETERS.

WIRING LEGEND

120V POWER

CAT6

0-10V WIRING

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
35% SCHEMATIC DESIGN RESUBMITTAL	06/30/2025
Revisions:	Date:

CONSULTANT

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL - LIGHTING FIXTURE AND LIGHTING CONTROL DEVICE SCHEDULES
Phase	ISSUED FOR BID
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Project Number	521-24-102
Building Number	#1
Approved: Project Director	
Location	BIRMINGHAM VAMC
Issue Date	05/15/2026
Checked	PTP
Drawn	YY
Drawing Number	E600

VA FORM 08-6231

ELECTRICAL GENERAL NOTES

PANEL C22C-A CKT 16, 18, AND 20, PANEL E22C CKT1 AND 3, AND PANEL LS22C CKT 1 ARE SHOWN AS EXISTING LOADS AS PER EXISTING PANEL DIRECTORY. CONTRACTOR SHALL FIELD VERIFY THE SAME AND RECONNECT AS SHOWN. SPLICE AND EXTEND EXISTING WIRING AS NECESSARY.

PANELBOARD - C22C-A — CB OPT: ST - SHUNT TRIP — 22kA AIC RATING

VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE — AF - ARC FAULT CIRCUIT INTERRUPTER

BUS RATING : 100 AMPS — GF - GROUND FAULT — SPECIAL...

MAIN : 100A MCB — FR - 100% RATED

BRANCHTYPE: CRITICAL BRANCH — L - LOCKABLE

LOCATION: ROOM 2206 — EP - EQUIPMENT GROUND FAULT (30mA)

LOAD TYPE	LOAD (VA)	CKT	LOAD SERVED	CB AMP/P	COBP T	PHASE A	PHASE B	PHASE C	COBP T	CB AMP/P	LOAD SERVED	CKT	LOAD (VA)	LOAD TYPE
RECEPTACLE	1600	1	COMPU RM 2204	20/1		A				20/1	COMPU RM 2212,14	2	1200	RECEPTACLE
RECEPTACLE	1200	3	COMPU RM 2205,06,07	20/1			B			20/1	COMPU RM 2202,09,10,11	4	1600	RECEPTACLE
RECEPTACLE	960	5	#U0002 @ 2 RM 2224,23	20/1				C		20/2	EX.HVAC RM 2714A	6	500	MOTOR
RECEPTACLE	1400	7	#U0004 RM 2224	20/1		A						8	500	MOTOR
RECEPTACLE	100	9	#U0005 RM 2223	20/1			B			20/1	COMPU RM 2201,03	10	1600	RECEPTACLE
RECEPTACLE	100	11	#U0006 RM 2222	20/1				C		20/1	COMPU RM 2201	12	1600	RECEPTACLE
RECEPTACLE	480	13	#U0002 RM 2222	20/1		A				20/1	REPCT RM 2206	14	360	RECEPTACLE
RECEPTACLE	960	15	#U0003 RM 2221	20/1			B			20/1	EX.OUTSIDE LIGHT-N	16	200	LIGHTING
RECEPTACLE	1400	17	#U0004 RM 2221	20/1				C		20/1	SPARE	18		
RECEPTACLE	960	19	#U0003 RM 2220	20/1		A				20/1	SPARE	20		
RECEPTACLE	1400	21	#U0004 RM 2220	20/1			B			20/1	SPARE	22		
RECEPTACLE	1200	23	COMPU RM 2215,16,17	20/1				C		20/1	SPARE	24		
RECEPTACLE	1200	25	COMPU RM 2219,20,21	20/1		A				20/1	SPARE	26		
		27	SPARE	20/1			B				SPACE	28		
		29	SPARE	20/1				C			SPACE	30		
		31	SPARE	20/1		A					SPACE	32		
		33	SPARE	20/1			B				SPACE	34		
		35	SPARE	20/1				C			SPACE	36		
		37	SPACE			A					SPACE	38		
		39	SPACE				B				SPACE	40		
		41	SPACE					C			SPACE	42		

EXISTING... PHASE A PHASE B PHASE C (VA)

LOAD X 125%

PANEL CALCULATIONS:

LOAD TYPE	LOAD (VA)	DEMAND FACTOR	DEMAND...	
RECEPTACLE	39840	PER NEC ARTICLE 220.44	24920	VA
LIGHTING	200	125%	250	VA
MOTOR	1000	100%	1000	VA
HEAT	0	100%	0	VA
MISC	0	100%	0	VA
0 KITCHEN	0	100%	0	VA
0 ELEVATORS	0	100%	0	VA
X-RAY	0	PER NEC ARTICLE 517.73(2)	0	VA
HOTEL UNIT	0	PER NEC ARTICLE 220.42	0	VA
0 UNIT PANELS	0	100%	0	VA
25% OF LARGEST MOTOR			250	VA
HOTEL SQFT		TOTAL HOTEL SQFT	0	

FEED THROUGH PANEL — LOAD (kVA)

PANELBOARD - C22C-B 21

SUB FEED LOADS AMP/P LOAD.. LOAD TYPE

LOAD SUMMARY

Phase Loading		
Phase A	16	kVA
Phase B	12	kVA
Phase C	13	kVA
Total Connected Load	41..	kVA
Total Demand Load	26..	kVA
Line to Line Voltage	208..	VOLTS
Spare Capacity	20%	
Panel Amps	88..	AMPS

PANELBOARD - C22C-B — CB OPT: ST - SHUNT TRIP — 22kA AIC RATING

VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE — AF - ARC FAULT CIRCUIT INTERRUPTER

BUS RATING : 100 AMPS — GF - GROUND FAULT — SPECIAL...

MAIN : MLO — FR - 100% RATED

BRANCHTYPE: CRITICAL BRANCH — L - LOCKABLE

LOCATION: ROOM 2206 — EP - EQUIPMENT GROUND FAULT (30mA)

LOAD TYPE	LOAD (VA)	CKT	LOAD SERVED	CB AMP/P	COBP T	PHASE A	PHASE B	PHASE C	COBP T	CB AMP/P	LOAD SERVED	CKT	LOAD (VA)	LOAD TYPE
RECEPTACLE	900	1	#U0009 RM 2805	20/1		A				20/1	COMPU RM 2801,02	2	800	RECEPTACLE
RECEPTACLE	900	3	#U0008 RM 2805	20/1			B			20/1	COMPU RM 2812	4	180	RECEPTACLE
RECEPTACLE	1000	5	#U0014 RM 2806	20/1				C		20/1	COMPU RM 2803,04,08,09	6	1600	RECEPTACLE
RECEPTACLE	1000	7	#U0013 RM 2806	20/1		A				20/1	COMPU RM 2813,14,15,16	8	1600	RECEPTACLE
RECEPTACLE	1000	9	#U0012 RM 2806	20/1			B			20/1	COMPU RM 2823,24,25	10	1200	RECEPTACLE
RECEPTACLE	1600	11	COMPU RM 2805,06,21,22	20/1				C		20/1	COMPU RM RM 2819	12	800	RECEPTACLE
RECEPTACLE	800	13	COMPU RM 2807,20	20/1		A				20/1	MED EQUIP RM 2811	14	1000	RECEPTACLE
RECEPTACLE	480	15	#U0015 RM 2821	20/1			B			20/1	SPARE	16		
RECEPTACLE	1400	17	#U0010 RM 2822	20/1				C		20/1	SPARE	18		
RECEPTACLE	960	19	#U0011 RM 2822	20/1		A				20/1	SPARE	20		
RECEPTACLE	960	21	#U0011 RM 2822	20/1			B			20/1	SPARE	22		
RECEPTACLE	960	23	#U0011 RM 2822	20/1				C		20/1	SPARE	24		
RECEPTACLE	900	25	#U0058 RM 2805	20/1		A				20/1	SPARE	26		
RECEPTACLE	480	27	#U0015 RM 2821	20/1			B				SPACE	28		
		29	SPACE					C			SPACE	30		
		31	SPACE			A					SPACE	32		
		33	SPACE				B				SPACE	34		
		35	SPACE					C			SPACE	36		
		37	SPACE			A					SPACE	38		
		39	SPACE				B				SPACE	40		
		41	SPACE					C			SPACE	42		

EXISTING... PHASE A PHASE B PHASE C (VA)

LOAD X 125%

PANEL CALCULATIONS:

LOAD TYPE	LOAD (VA)	DEMAND FACTOR	DEMAND...	
RECEPTACLE	20520	PER NEC ARTICLE 220.44	15260	VA
LIGHTING	0	125%	0	VA
MOTOR	0	100%	0	VA
HEAT	0	100%	0	VA
MISC	0	100%	0	VA
0 KITCHEN	0	100%	0	VA
0 ELEVATORS	0	100%	0	VA
X-RAY	0	PER NEC ARTICLE 517.73(2)	0	VA
HOTEL UNIT	0	PER NEC ARTICLE 220.42	0	VA
0 UNIT PANELS	0	100%	0	VA
25% OF LARGEST MOTOR			0	VA
HOTEL SQFT		TOTAL HOTEL SQFT	0	

FEED THROUGH PANEL — LOAD (kVA)

SUB FEED LOADS AMP/P LOAD.. LOAD TYPE

LOAD SUMMARY

Phase Loading		
Phase A	8	kVA
Phase B	5	kVA
Phase C	7	kVA
Total Connected Load	21..	kVA
Total Demand Load	15..	kVA
Line to Line Voltage	208..	VOLTS
Spare Capacity	20%	
Panel Amps	51..	AMPS

PANELBOARD - EX.E22C — CB OPT: ST - SHUNT TRIP — 22kA AIC RATING

VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE — AF - ARC FAULT CIRCUIT INTERRUPTER

BUS RATING : 225 AMPS — GF - GROUND FAULT — SPECIAL...

MAIN : 60A MCB — FR - 100% RATED

BRANCHTYPE: EQUIPMENT BRANCH — L - LOCKABLE

LOCATION: ROOM 2206 — EP - EQUIPMENT GROUND FAULT (30mA)

LOAD TYPE	LOAD (VA)	CKT	LOAD SERVED	CB AMP/P	COBP T	PHASE A	PHASE B	PHASE C	COBP T	CB AMP/P	LOAD SERVED	CKT	LOAD (VA)	LOAD TYPE
MOTOR	1000	1	EX.FCU (YC)	20/1		A				20/1	SPARE	2		
MISC	200	3	EX.PWER CONTL 2B-130	20/1			B			20/1	***EF-101 RM 2227***	4	***240***	***MOTOR***
HEAT	***250***	5	***PS-V1 RM 2206***	20/1				C		20/1	***PS-V5 RM 2206***	6	***250***	***HEAT***
HEAT	***250***	7	***PS-V2 RM 2206***	20/1		A				20/1	***PS-V6 RM 2206***	8	***200***	***HEAT***
HEAT	***250***	9	***PS-V3 RM 2206***	20/1			B			20/1	***PS-V7 RM 2206***	10	***200***	***HEAT***
HEAT	***250***	11	***PS-V4 RM 2206***	20/1				C		20/1	***AHU-101-CONTROL PNL...***	12	***500***	***MISC***
MOTOR	***200***	13	***CP-1 ELEV LOBBY CORR***	20/1		A				20/1	***RO-1 RM 228***	14	***1600***	***MOTOR***
MOTOR	***200***	15	***CP-2 CORR RCC280R***	20/1			B			20/1	SPACE	16		
		17	SPARE	20/1				C		20/1	SPACE	18		
		19	SPARE	20/1		A				20/1	SPACE	20		
		21	SPARE	20/1			B			20/1	SPACE	22		
		23	SPARE	20/1				C		20/1	SPACE	24		
		25	SPARE	20/1		A					SPACE	26		
		27	SPARE	20/1			B				SPACE	28		
		29	SPARE	20/1				C			SPACE	30		

EXISTING... PHASE A PHASE B PHASE C (VA)

LOAD X 125%

PANEL CALCULATIONS:

LOAD TYPE	LOAD (VA)	DEMAND FACTOR	DEMAND...	
RECEPTACLE	0	PER NEC ARTICLE 220.44	0	VA
LIGHTING	0	125%	0	VA
MOTOR	3240	100%	3240	VA
HEAT	1650	100%	1650	VA
MISC	700	100%	700	VA
0 KITCHEN	0	100%	0	VA
0 ELEVATORS	0	100%	0	VA
X-RAY	0	PER NEC ARTICLE 517.73(2)	0	VA
HOTEL UNIT	0	PER NEC ARTICLE 220.42	0	VA
0 UNIT PANELS	0	100%	0	VA
25% OF LARGEST MOTOR			400	VA
HOTEL SQFT		TOTAL HOTEL SQFT	0	

FEED THROUGH PANEL — LOAD (kVA)

SUB FEED LOADS AMP/P LOAD.. LOAD TYPE

LOAD SUMMARY

Phase Loading		
Phase A	3	kVA
Phase B	1	kVA
Phase C	1	kVA
Total Connected Load	6..	kVA
Total Demand Load	6..	kVA
Line to Line Voltage	208..	VOLTS
Spare Capacity	20%	
Panel Amps	20..	AMPS

PANELBOARD - EX.LS22C — CB OPT: ST - SHUNT TRIP — 22kA AIC RATING

VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE — AF - ARC FAULT CIRCUIT INTERRUPTER

BUS RATING : 100 AMPS — GF - GROUND FAULT — SPECIAL...

MAIN : 60A MCB — FR - 100% RATED

BRANCHTYPE: CRITICAL BRANCH — L - LOCKABLE

LOCATION: ROOM 2206 — EP - EQUIPMENT GROUND FAULT (30mA)

LOAD TYPE	LOAD (VA)	CKT	LOAD SERVED	CB AMP/P	COBP T	PHASE A	PHASE B	PHASE C	COBP T	CB AMP/P	LOAD SERVED	CKT	LOAD (VA)	LOAD TYPE
MISC	100	1	EX.FA PNL RESEARCH	20/1		A				20/1	***EXIT SIGN***	2	***105***	***LIGHTING***
LIGHTING	***385***	3	***NIGHT LIGHTS***	20/1			B			20/1	SPARE	4		
		5	SPARE	20/1				C		20/1	SPARE	6		
		7	SPARE	20/1		A				20/1	SPARE	8		
		9	SPARE	20/1			B			20/1	SPARE	10		
		11	SPACE					C			SPACE	12		
		13	SPACE			A					SPACE	14		
		15	SPACE				B				SPACE	16		
		17	SPACE					C			SPACE	18		
		19	SPACE			A					SPACE	20		
		21	SPACE				B				SPACE	22		
		23	SPACE					C			SPACE	24		
		25	SPACE			A					SPACE	26		
		27	SPACE				B				SPACE	28		
		29	SPACE					C			SPACE	30		

EXISTING... PHASE A PHASE B PHASE C (VA)

LOAD X 125%

PANEL CALCULATIONS:

LOAD TYPE	LOAD (VA)	DEMAND FACTOR	DEMAND...	
RECEPTACLE	0	PER NEC ARTICLE 220.44	0	VA
LIGHTING	490	125%	613	VA
MOTOR	0	100%	0	VA
HEAT	0	100%	0	VA
MISC	100	100%	100	VA
0 KITCHEN	0	100%	0	VA
0 ELEVATORS	0	100%	0	VA
X-RAY	0	PER NEC ARTICLE 517.73(2)	0	VA
HOTEL UNIT	0	PER NEC ARTICLE 220.42	0	VA
0 UNIT PANELS	0	100%	0	VA
25% OF LARGEST MOTOR			0	VA
HOTEL SQFT		TOTAL HOTEL SQFT	0	

FEED THROUGH PANEL — LOAD (kVA)

SUB FEED LOADS AMP/P LOAD.. LOAD TYPE

LOAD SUMMARY

Phase Loading		
Phase A	0	kVA
Phase B	0	kVA
Phase C	0	kVA
Total Connected Load	1..	kVA
Total Demand Load	1..	kVA
Line to Line Voltage	208..	VOLTS
Spare Capacity	20%	
Panel Amps	2..	AMPS

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
65% DESIGN DEVELOPMENT SUBMITTAL	**09/08/2025**
Revisions:	**Date:**

CONSULTANT

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Bancroft Project No. 23-135

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LICENSED PROFESSIONAL ENGINEER — WALTER J. GROSZKO — 062-036261 — STATE OF ILLINOIS — 5/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title ELECTRICAL - PANEL SCHEDULES

Phase ISSUED FOR BID

Project Title RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number 521-24-102

Building Number #1

Approved: Project Director

Location BIRMINGHAM VAMC

Issue Date 05/15/2026 | **Checked** PTP | **Drawn** YY

Drawing Number E601

VA FORM 08-6231

PANELBOARD - L22C-A

VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE
BUS RATING : 225 AMPS
MAIN : 200A MCB
BRANCHTYPE: NORMAL BRANCH
LOCATION: ROOM 2206

CB OPT: ST - SHUNT TRIP
AF - ARC FAULT CIRCUIT INTERRUPTER
GF - GROUND FAULT
FR - 100% RATED
L - LOCKABLE
EP - EQUIPMENT GROUND FAULT (30mA)

22kA AIC RATING

SPECIAL...

LOAD TYPE	LOAD (VA)	C K T	LOAD SERVED	CB AMP/P	C O B P T	PHASE A	PHASE B	PHASE C	C O B P T	CB AMP/P	LOAD SERVED	C K T	LOAD (VA)	LOAD TYPE
RECEPTACLE	1080	1	REC RM 2211,12	20/1		A				20/1	REC RM 2224,25,26,27	2	1080	RECEPTACLE
RECEPTACLE	1080	3	REC RM 2210,11	20/1			B			20/1	REC COPIER RM 2225	4	1000	RECEPTACLE
RECEPTACLE	1080	5	REC RM 2208,09	20/1				C		20/1	REC RM 2222,23,24	6	1080	RECEPTACLE
RECEPTACLE	800	7	REF RM 2229	20/1		A				20/1	REC RM 2220,21,22	8	1080	RECEPTACLE
RECEPTACLE	800	9	MICRO RM 2229	20/1			B			20/1	REC RM 2218,19	10	1260	RECEPTACLE
RECEPTACLE	540	11	REC RM 2229,CLOS	20/1				C		20/1	REC RM 2217,18	12	1080	RECEPTACLE
RECEPTACLE	800	13	COFF MAKER RM 2229	20/1		A				20/1	REC RM 2215,16	14	1080	RECEPTACLE
RECEPTACLE	1080	15	REC RM 2203,29, 2827	20/1			B			20/1	REC RM 2214,15	16	1080	RECEPTACLE
RECEPTACLE	900	17	REC RM 2202,03	20/1				C		20/1	REC RCC270R,272R	18	900	RECEPTACLE
RECEPTACLE	1080	19	REC RM 2200,01	20/1		A				20/1	REC RCC274R,277R, 276R,284R	20	720	RECEPTACLE
RECEPTACLE	1080	21	REC RM 2200	20/1			B			20/1	REC ON 1ST FL ROOF	22	180	RECEPTACLE
RECEPTACLE	1000	23	COPIER RM 2201	20/1				C		20/1	REC RCC271R	24	200	RECEPTACLE
LIGHTING	916	25	LTS RM 2218,19,20,21,22 23,24,25,26,27	20/1		A				20/1	LTS RCC270R,271R,272R 273R,274R,276R,277R, 284R,	26	454	LIGHTING
LIGHTING	969	27	LTS RM 2206,07,08,09,10, 11,12,13,14,15,16,17,29	20/1			B			20/1	LTS RM 2200,01,02,03, 2827	28	540	LIGHTING
LIGHTING	1200	29	nLIGHT BRIDGE B1,B2,B3 B4,B5,B6,B7,B14	20/1				C		20/1	nLIGHT BRIDGE B8,B9, B10,B11,B12,B13	30	900	LIGHTING
RECEPTACLE	1200	31	#U0022 RM 2219	20/1		A				20/1	#U0022 RM 2211	32	1200	RECEPTACLE
RECEPTACLE	1200	33	#U0022 RM 2217	20/1			B			20/1	#U0022 RM 2210	34	1200	RECEPTACLE
RECEPTACLE	1200	35	#U0022 RM 2216	20/1				C		20/1	#U0022 RM 2209	36	1200	RECEPTACLE
RECEPTACLE	1200	37	#U0022 RM 2215	20/1		A				20/1	#U0022 RM 2202	38	1200	RECEPTACLE
RECEPTACLE	100	39	nLIGHT LIGHT CONTROL...	20/1			B				SPARE	40		
		41	SPARE	20/1				C		20/1	SPARE	42		
		43	SPARE	20/1		A				20/1	SPARE	44		
		45	SPARE	20/1			B			20/1	SPARE	46		
		47	SPARE	20/1				C		20/1	SPARE	48		
		49	SPARE	20/1		A				20/1	SPARE	50		
		51	SPACE				B				SPACE	52		
		53	SPACE					C			SPACE	54		
		55	SPACE			A					SPACE	56		
		57	SPACE				B				SPACE	58		
		59	SPACE					C			SPACE	60		

EXISTING... PHASE A PHASE B PHASE C (VA)
LOAD X 125%

PANEL CALCULATIONS:

LOAD TYPE	LOAD (VA)	DEMAND FACTOR	DEMAND...	
RECEPTACLE	61520	PER NEC ARTICLE 220.44	35760	VA
LIGHTING	8380	125%	10475	VA
MOTOR	500	100%	500	VA
HEAT	0	100%	0	VA
MISC	0	100%	0	VA
0 KITCHEN	0	100%	0	VA
0 ELEVATORS	0	100%	0	VA
X-RAY	0	PER NEC ARTICLE 517.73(2)	0	VA
HOTEL UNIT	0	PER NEC ARTICLE 220.42	0	VA
0 UNIT PANELS	0	100%	0	VA
25% OF LARGEST MOTOR			125	VA
HOTEL SQFT		TOTAL HOTEL SQFT	0	

FEED THROUGH PANEL LOAD (kVA)
PANELBOARD - L22C-B 34

SUB FEED LOADS AMP/P LOAD.. LOAD TYPE

LOAD SUMMARY
Phase Loading

Phase A	26 kVA
Phase B	23 kVA
Phase C	22 kVA
Total Connected Load	70.. kVA
Total Demand Load	47.. kVA
Line to Line Voltage	208.. VOLTS
Spare Capacity	20%
Panel Amps	156.. AMPS

PANELBOARD - L22C-B

VOLTAGE : 120/208 VOLTS 3 PHASE, 4 WIRE
BUS RATING : 225 AMPS
MAIN : MLO
BRANCHTYPE: NORMAL BRANCH
LOCATION: ROOM 2206

CB OPT: ST - SHUNT TRIP
AF - ARC FAULT CIRCUIT INTERRUPTER
GF - GROUND FAULT
FR - 100% RATED
L - LOCKABLE
EP - EQUIPMENT GROUND FAULT (30mA)

22kA AIC RATING

SPECIAL...

LOAD TYPE	LOAD (VA)	C K T	LOAD SERVED	CB AMP/P	C O B P T	PHASE A	PHASE B	PHASE C	C O B P T	CB AMP/P	LOAD SERVED	C K T	LOAD (VA)	LOAD TYPE
RECEPTACLE	1080	1	REC RM 2801,02	20/1		A				20/1	REC RM 2805,22	2	1080	RECEPTACLE
RECEPTACLE	1080	3	REC RM 2801,04	20/1			B			20/1	REC RM 2806,21	4	900	RECEPTACLE
RECEPTACLE	1080	5	REC RM 2803,07	20/1				C		20/1	REC RM 2807	6	900	RECEPTACLE
RECEPTACLE	1080	7	REC RM 2803,09	20/1		A				20/1	REC RM 2820	8	900	RECEPTACLE
RECEPTACLE	1080	9	REC RM 2808,09	20/1			B			20/1	REC RCC280R,281R,282R	10	720	RECEPTACLE
RECEPTACLE	720	11	REC RM 2810,11,18,19	20/1				C		20/1	REC RCC275R,278R,279R	12	720	RECEPTACLE
RECEPTACLE	1080	13	REC RM 2825,26	20/1		A				20/1	REC RM 2228	14	720	RECEPTACLE
RECEPTACLE	1080	15	REC RM 2824,25	20/1			B			20/1	AHU-101-UV LTS RM 2228	16	500	LIGHTING
RECEPTACLE	900	17	REC RM 2823	20/1				C		20/1	LTS RM 2801,02,03,04,...	18	642	LIGHTING
RECEPTACLE	720	19	REC RM 2813,14	20/1		A				20/1	LTS 2805,06,07,20,221,...	20	1116	LIGHTING
RECEPTACLE	720	21	REC RM 2815,16	20/1			B			20/1	LTS RCC275R,278R,279R...	22	483	LIGHTING
MOTOR	500	23	HUM-101 RM 2228	20/1				C		20/1	LTS RM 2228	24	176	LIGHTING
		25	SPARE	20/1		A				20/1	LTS RM 2810,11,13,14,15...	26	484	LIGHTING
RECEPTACLE	1200	27	#U0023 RM 2802	20/1			B			20/1	#U0023 RM 2807	28	1200	RECEPTACLE
RECEPTACLE	1200	29	#U0023 RM 2801	20/1				C		20/1	#U0023 RM 2802	30	1200	RECEPTACLE
RECEPTACLE	1200	31	#U0023 RM 2803	20/1		A				20/1	#U0023 RM 2823	32	1200	RECEPTACLE
RECEPTACLE	1200	33	#U0023 RM 2804	20/1			B			20/1	#U0023 RM 2824	34	1200	RECEPTACLE
RECEPTACLE	1200	35	#U0023 RM 2809	20/1				C		20/1	#U0023 RM 2825	36	1200	RECEPTACLE
RECEPTACLE	1200	37	#U0023 RM 2808	20/1		A				20/1	SPARE	38		
		39	SPARE	20/1			B			20/1	SPARE	40		
		41	SPARE	20/1				C		20/1	SPARE	42		
		43	SPARE	20/1		A				20/1	SPARE	44		
		45	SPARE	20/1			B			20/1	SPARE	46		
		47	SPARE	20/1				C		20/1	SPARE	48		
		49	SPARE	20/1		A					SPACE	50		
		51	SPACE				B				SPACE	52		
		53	SPACE					C			SPACE	54		
		55	SPACE			A					SPACE	56		
		57	SPACE				B				SPACE	58		
		59	SPACE					C			SPACE	60		

EXISTING... PHASE A PHASE B PHASE C (VA)
LOAD X 125%

PANEL CALCULATIONS:

LOAD TYPE	LOAD (VA)	DEMAND FACTOR	DEMAND...	
RECEPTACLE	29760	PER NEC ARTICLE 220.44	19880	VA
LIGHTING	3401	125%	4251	VA
MOTOR	500	100%	500	VA
HEAT	0	100%	0	VA
MISC	0	100%	0	VA
0 KITCHEN	0	100%	0	VA
0 ELEVATORS	0	100%	0	VA
X-RAY	0	PER NEC ARTICLE 517.73(2)	0	VA
HOTEL UNIT	0	PER NEC ARTICLE 220.42	0	VA
0 UNIT PANELS	0	100%	0	VA
25% OF LARGEST MOTOR			125	VA
HOTEL SQFT		TOTAL HOTEL SQFT	0	

FEED THROUGH PANEL LOAD (kVA)

SUB FEED LOADS AMP/P LOAD.. LOAD TYPE

LOAD SUMMARY
Phase Loading

Phase A	12 kVA
Phase B	11 kVA
Phase C	10 kVA
Total Connected Load	34.. kVA
Total Demand Load	25.. kVA
Line to Line Voltage	208.. VOLTS
Spare Capacity	20%
Panel Amps	82.. AMPS

ISSUED FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	03/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMITTAL	09/08/2025
Revisions:	Date:

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Bancroft Project No. 23-135

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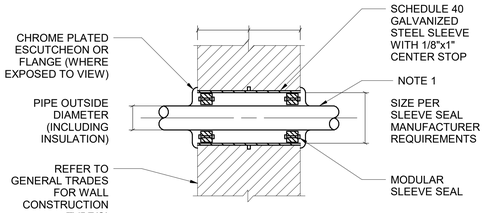
LICENSED PROFESSIONAL ENGINEER
WALTER J. GROSZKO
062-036261
STATE OF ILLINOIS
5/15/2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

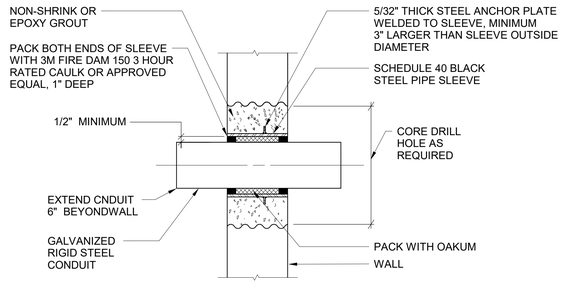
Drawing Title: ELECTRICAL - PANEL SCHEDULES
Approved: Project Director
Phase: ISSUED FOR BID
Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Location: BIRMINGHAM VAMC
Issue Date: 05/15/2026
Checked: PTP
Drawn: YY
Project Number: 521-24-102
Building Number: #1
Drawing Number: E602

VA FORM 08-6231

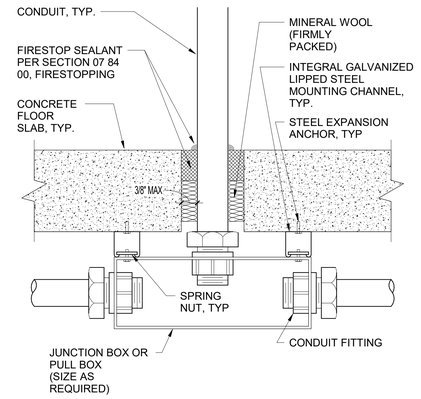


NOTE:
1. PIPE INSULATION SHALL BE CONTINUOUS THROUGH PENETRATIONS. PROVIDE RIGID THERMAL HANGAR SHIELD INSERT AT MODULAR SLEEVE SEALS.

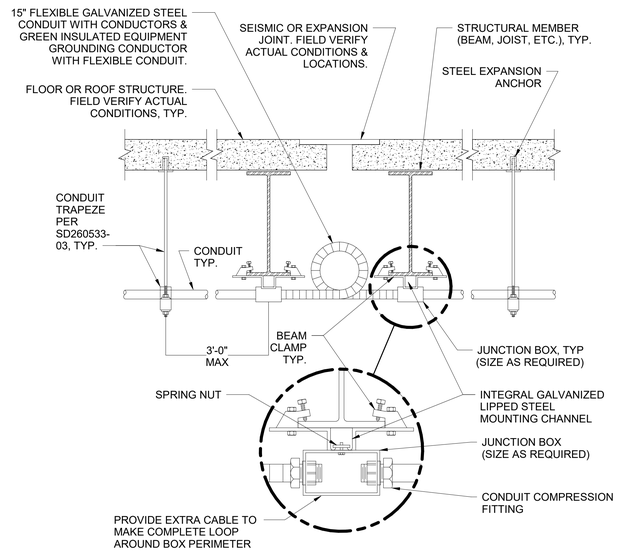
1 PIP PENETRATION EXTERIOR WALL
NOT TO SCALE



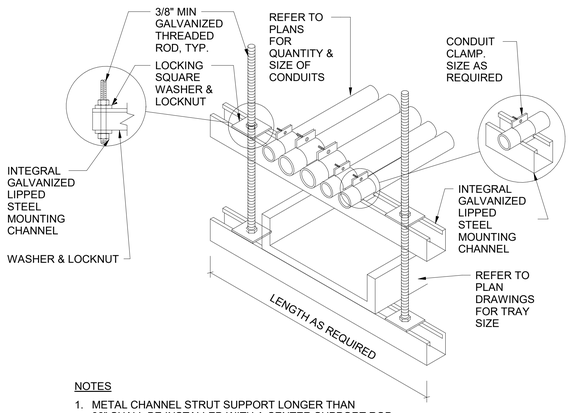
2 PIPE SLEEVE THRU WALL DETAIL
NOT TO SCALE



3 FLOOR SLAB PENETRATION DETAIL
NOT TO SCALE

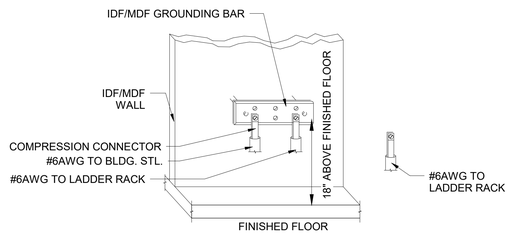


4 CONDUIT JOINT CROSSING DETAIL
NOT TO SCALE



NOTES
1. METAL CHANNEL STRUT SUPPORT LONGER THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 05 33, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. IF APPLICABLE FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 10 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

5 CONDUIT AND TRAY TRAPEZE MOUNTING DETAIL
NOT TO SCALE



6 GROUND BUS DETAIL
NOT TO SCALE

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
65% DESIGN DEVELOPMENT SUBMITTAL	**09/08/2025**
Revisions:	**Date:**

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LICENSED PROFESSIONAL ENGINEER — WALTER J. GROSZKO — 062-036261 — STATE OF ILLINOIS — 5/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title ELECTRICAL - DETAILS

Approved: Project Director

Phase ISSUED FOR BID

Project Title RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location BIRMINGHAM VAMC

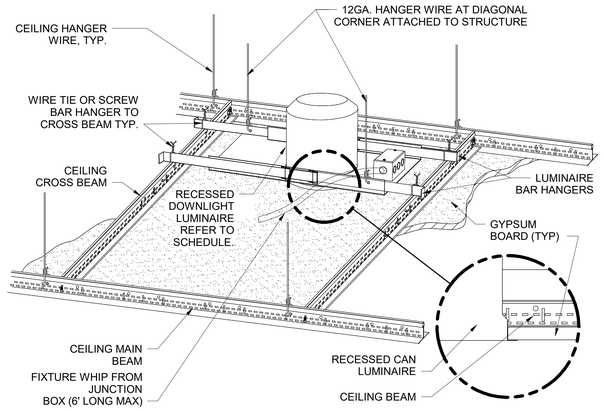
Issue Date 05/15/2026 | **Checked** PTP | **Drawn** YY

Project Number 521-24-102

Building Number #1

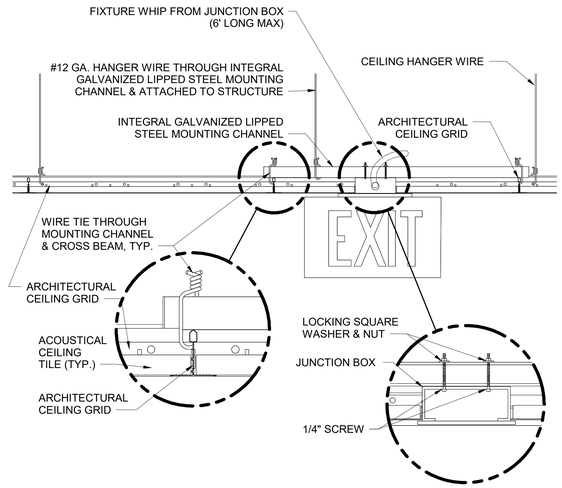
Drawing Number E700

VA FORM 08-6231



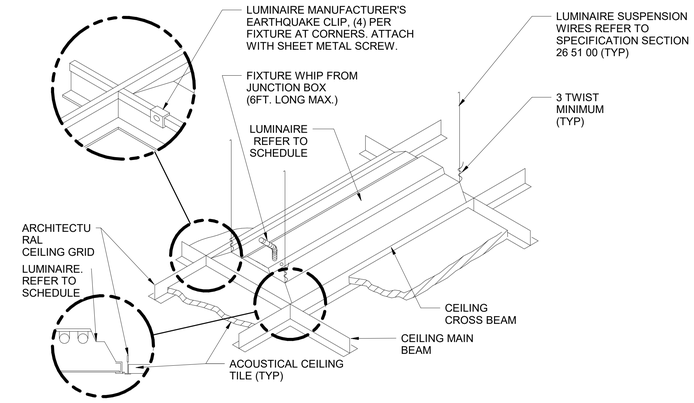
1 DOWNLIGHT MOUNTING - GYPBOARD CEILING

NOT TO SCALE



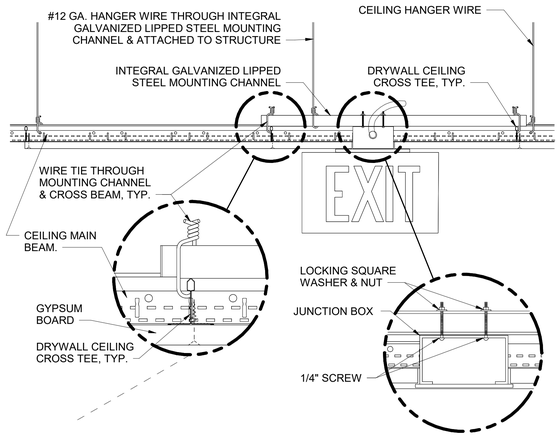
2 EXIT SIGN MOUNTING - LAY-IN CEILING1

NOT TO SCALE



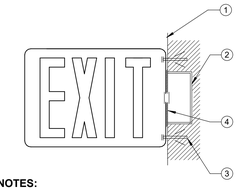
3 LUMINAIRE MOUNTING - LAY-IN CEILING

NOT TO SCALE



4 EXIT SIGN MOUNTING - GYPBOARD CEILING

NOT TO SCALE



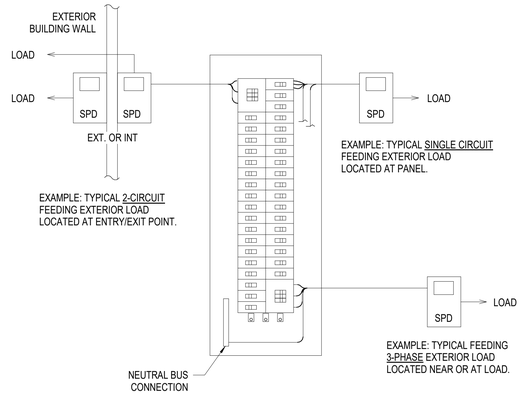
NOTES:

A. PROVIDE POWER TO EXIT LIGHT WITH 2-#12 + 1-#12 GROUND.

1. NEW/EXISTING WALL.
2. PROVIDE GROUNDED BOX FOR MOUNTING.
3. HEAVY-DUTY ANCHORS.
4. JUNCTION BOX COVER PLATE.

5 TYPICAL EXIT SIGN MOUNTING DETAIL

NOT TO SCALE



GENERAL NOTES:

1. SURGE PROTECTION DEVICE (SPD) CAN BE LOCATED ADJACENT TO PANEL, AT A LOCATION ENTERING/EXITING THE STRUCTURE OR AT THE EXTERIOR LOAD.
2. PROVIDE INDIVIDUAL EXTERIOR CIRCUIT SURGE PROTECTION DEVICES (SPD) FOR EXTERIOR LOADS. SPD'S SHALL BE LISTED TO THE CURRENT UL 1449 EDITION AND LISTED TYPE 2, 20kA-"IN", WITH VISUAL FAILURE INDICATION PER CIRCUIT.
3. SINGLE POLE, TWO POLE AND THREE PHASE - WYE CIRCUITS SHALL HAVE L-N/G PROTECTION MODE. THREE PHASE GROUND DELTA CIRCUITS SHALL HAVE L-G PROTECTION MODE. SPD'S SHALL BE MODULAR WITH FIELD REPLACEABLE MODULES, DRY CONTACTS FOR REMOTE MONITORING AND HAVE A 5 YEAR FACTORY WARRANTY.
4. ENCLOSURE RATING SHALL BE NEMA 4/12 INDOOR AND OUTDOOR AND INCORPORATE HINGED DOOR WITH A VIEWING WINDOW AND GROUNDING TERMINAL(S). FOR PQDM SERIES THERE SHALL BE ONE GROUNDING TERMINAL FOR EVERY THREE CIRCUITS. SPD TERMINALS TO ACCEPT #6 - #14 AWG CONDUCTORS.
5. BASIS OF DESIGN IS PQ PROTECTION PQD SERIES AND APPROVED EQUALS ONLY.

6 TYP SPD INSTALLATION FOR EXTERIOR LOADS

NOT TO SCALE

ISSUED FOR BID	**05/15/2026**
100% CONSTRUCTION DOCUMENTS	**03/16/2026**
95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
65% DESIGN DEVELOPMENT SUBMITTAL	**09/08/2025**
Revisions:	**Date:**

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VA CONTRACT NO.36C24724C0036
Bancroft Project No. 23-135

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LICENSED PROFESSIONAL ENGINEER
5/15/2026
WALTER J. GROSZKO
062-038261
STATE OF ILLINOIS

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title ELECTRICAL - DETAILS

Phase ISSUED FOR BID

Project Title RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Project Number 521-24-102

Building Number #1

Approved: Project Director

Location BIRMINGHAM VAMC

Issue Date 05/15/2026 | **Checked** PTP | **Drawn** YY

Drawing Number E701

VA FORM 08-6231

GENERAL TELECOMMUNICATIONS NOTES

1. SCOPE INCLUDES MODIFICATIONS AND ADDITIONS TO EXISTING ACCESS CONTROL AND VIDEO SURVEILLANCE SYSTEMS. CONTRACTORS TO PROVIDE ALL LABOR AND MATERIALS, INCLUDING COMPONENTS, REQUIRE TO ACHIEVE A FULLY FUNCTIONAL SYSTEM.
2. PROJECT COORDINATION- NO SYSTEMS OR COMPONENTS SHALL BE DISRUPTED OUT OF PROJECT SEQUENCE; COORDINATE ALL SERVICES DISRUPTIONS WITH THE PROJECT COR.
3. CARE SHALL BE TAKEN AS TO NOT DISRUPT OR DAMAGE EXISTING SYSTEMS INCLUDING BUT NOT LIMITED TO CATV, ACCESS CONTROL, NURSE CALL, BUILDING AUTOMATION, DISTRIBUTED ANTENNA, PAGING.
4. CONTRACTOR SHALL VERIFY ALL COMPONENTS CONNECTED TO EXISTING TELECOMMUNICATION GROUNDING BUSBARS HAVE BEEN TAKEN OUT OF SERVICE OR HAS BEEN BONDED TO THE NEW TELECOMMUNICATION GROUNDING/BONDING SYSTEM PRIOR TO REMOVING EXISTING GROUNDING COMPONENTS.
5. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROMPTLY REPORT ANY DRAWING DISCREPANCIES TO THE PROJECT COR AND ARCHITECT.
6. IN ADDITION TO PRIMARY PATHWAYS, CABLE TRAY SHALL BE PROVIDED WITH CABLE BUNDLES EXCEED 24 CABLES.
7. FIRE RATED MECHANICAL SLEEVE ASSEMBLES SHALL BE PROVIDED WHEN PASSING THROUGH FIRE RATED PARTITIONS ASSUMING 40% FILL AND 50% SPARE CAPACITY
8. CONTRACTOR SHALL ENSURE THAT ALL PENETRATIONS BE SEALED AS REQUIRED TO MEET EXISTING RATINGS. REFER TO SPECIFICATION 07 84 00.
9. EXISTING ROUTING FOR TELECOM DROPS SHALL BE MAINTAINED TO THE FULLEST EXTENT POSSIBLE. IT IS UNDERSTOOD THAT SOME OF THE NEW CABLE WILL BE PLACED WITHIN NEW CABLE TRAY, HOWEVER THE EXISTING CONDUIT TO THE DATE DROP SHALL BE REUSED.
10. THE INDUSTRY STANDARD OF 295 FEET MAXIMUM HORIZONTAL CABLE LENGTH SHALL IMPLEMENTED. IF THIS REQUIREMENT CAN NOT BE MET, CONTACT TO PROJECT COR IMMEDIATELY.
11. ALL CABLE TO WIRELESS ACCESS POINTS (WAPS) SHALL BE REPLACED WITH CAT 6A CABLES. PROVIDE A NEW CAT 6A DUAL JACK SURFACE MOUNTED BOX ABOVE THE CEILING WHERE EXISTING WAPS ARE LOCATED. ALL EXISTING WIRELESS ACCESS POINT DEVICES SHALL REMAIN IN PLACE.
12. SPLICING OF ANY LOW VOLTAGE CABLING SHALL NOT BE ACCEPTABLE.
13. CONTRACTOR SHALL PROVIDE SERVICE LOOP OF 10' AT BOTH TERMINATION OF CABLING, TO BE HOUSED IN CABLE TRAY.

INDUSTRY STANDARDS

1.8.2.8 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA):
(A) TIA-120 SERIES -TELECOMMUNICATIONS LAND MOBILE COMMUNICATIONS (APCO/PROJECT 25).
(B) TIA-155- GUIDELINES FOR THE ASSESSMENT AND MITIGATION OF INSTALLED CATEGORY 6 CABLING TO SUPPORT 10GBASE-T.
(C) TIA TSB - 162 - A - TELECOMMUNICATIONS CABLING GUIDELINES FOR WIRELESS ACCESS POINTS.
(D) TIA - 222 - STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
(E) TIA - 472DOOO - B - FIBER OPTIC COMMUNICATIONS CABLE FOR OUTSIDE PLANT USE.
(F) TIA - 568 - REVISION/EDITION: C COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD SET:
(· TIA - 568 .0 (REV. E) GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES,
(· TIA - 568 .1 (REV. E) COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD PART 1: GENERAL REQUIREMENTS, (· TIA - 568 .2 (REV. D) COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING
STANDARD - PART 2: BALANCED TWISTED PAIR CABLING COMPONENTS,
(· TIA - 568.3 (REV. D) OPTICAL FIBER CABLING COMPONENTS STANDARD, AND
(· TIA - 568 .4 (REV. D) BROADBAND COAXIAL CABLING AND COMPONENTS STANDARD (WITH ADDENDUMS AND ERRATA).
(G) TIA - 569 (REV. E)- TELECOMMUNICATIONS PATHWAYS AND SPACES.
(H) TIA/EIE - 590 (REV. A) - STANDARD FOR PHYSICAL LOCATION AND PROTECTION OF BELOW GROUND FIBER OPTIC CABLE PLANT.
(I) ANSI/TIA - 606 (REV. D) - ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE.
(J) TIA - 607 (REV. D) - GENERIC TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES.
(K) ANSI/TIA - 758 (REV. B) - CUSTOMER-OWNED OUTSIDE PLANT TELECOMMUNICATION INFRASTRUCTURE STANDARD.
(L) ANSI/TIA - 862 (REV. B)- BUILDING AUTOMATION SYSTEMS CABLING STANDARD.
(M) TIA - 942 (REV. B) - TELECOMMUNICATIONS INFRASTRUCTURE STANDARD FOR DATA CENTERS.
(N) TIA - 1179 (REV. A)- HEALTHCARE FACILITY TELECOMMUNICATIONS INFRASTRUCTURE STANDARD.

COMMUNICATION SYMBOLS

P# +H — WALL MOUNTED - VOICE / DATA OUTLET
P# = NUMBER OF VOICE/DATA PORTS IN EACH FACEPLATE, IF NOT SHOWN PROVIDE 2 PORTS.
+ H =INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN INSTALL AT TYPICAL 18" RECEPTACLE HEIGHT. COORDINATE WITH ELECTRICAL

P# — CEILING MOUNTED - VOICE / DATA OUTLET
P# = NUMBER OF VOICE / DATA PORTS IN FACEPLATE, IF NOT SHOWN PROVIDE 4 PORTS

P# — FLOOR MOUNTED-TELEPHONE/DATA OUTLET
P# = NUMBER OF VOICE / DATA PORTS IN FACEPLATE, IF NOT SHOWN PROVIDE 4 PORTS

P# +H — WALL MOUNTED - GETWELL NETWORK DATA OUTLET
P# = NUMBER OF VOICE / DATA PORTS IN FACEPLATE, IF NOT SHOWN PROVIDE 1 PORTS
+ H =INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN INSTALL AT TYPICAL 72" RECEPTACLE HEIGHT. COORDINATE WITH ELECTRICAL

WAP — CEILING MOUNTED - OUTLET FOR WIRELESS ACCESS POINT
P# = NUMBER OF VOICE / DATA PORTS IN FACEPLATE, IF NOT SHOWN PROVIDE 2 PORTS

E P# — FLOOR BOX- VOICE / DATA OUTLETS
P# = NUMBER OF VOICE / DATA PORTS IN FACEPLATE, IF NOT SHOWN PROVIDE 4 PORTS
E= POWER OUTLET- REFER TO ELECTRICAL PLANS FOR DETAILS

E P# — POKE THRU- VOICE / DATA OUTLETS
P# = NUMBER OF VOICE / DATA PORTS IN FACEPLATE, IF NOT SHOWN PROVIDE 4 PORTS
E= POWER OUTLET- REFER TO ELECTRICAL PLANS FOR DETAILS

TV T# + H — WALL MOUNTED TV OUTLET
PROVIDE 1 DATA PORT OTHERWISE NOTED
T# = TYPE OF OUTLET SEE TELECOMMUNICATION DETAILS
+ H =INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN INSTALL AT TYPICAL 72" RECEPTACLE HEIGHT. COORDINATE WITH ELECTRICAL

TV T# + H — CEILING MOUNTED TV OUTLET
PROVIDE 1 DATA PORT UNLESS OTHERWISE NOTED
T# = TYPE OF OUTLET SEE TELECOMMUNICATION DETAILS
+ H =INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN INSTALL AT TYPICAL 72" RECEPTACLE HEIGHT. COORDINATE WITH ELECTRICAL

ELECTRONIC SAFETY AND SECURITY SYMBOLS

REMOTE DICTATING OUTLET MTD 1'-6" (457 mm) AFF. UNLESS OTHERWISE NOTED

PA — SECURITY / DURESS-ALARM BUTTON MOUNTED 3" ABOVE COUNTER TOP / COUNTER TOP BACK SPLAH.

X — CEILING MOUNTED SECURITY CAMERA, X REPERSENTS VIEW RANGE OF CAMERA

X — WALL MOUNTED SECURITY CAMERA, X REPERSENTS VIEW RANGE OF CAMERA

CR — WALL MOUNTED CARD READER

CR/K — WALL MOUNTED CARD READER WITH KEYPAD

RFID — WALL MOUNTED PATIENT WRISTBAND READER

AIP — AIPHONE

ADO — AUTOMATIC DOOR OPENER

REX — REQUEST TO EXIT PUSH BUTTON

ACP — ACCESS CONTROL PANEL

ACPS — ACCESS CONTROL POWER SUPPLY

KP — KEYPAD LOCK

RX — REQUEST TO EXIT MOTION

ES — DOOR LOCKING MECHANISM/ELECT STRIKE

ML — DOOR LOCKING MECHANISM/MAG LOCK

ROOF POLE MOUNTED SECURITY CAMERA

CCP — CAMERA CONTROL PANEL

MID — MOTION INTRUSION DETECTOR

GB — GLASS BREAK SENSOR

DC — DOOR CONTACT

WS — DOOR OPENER WAVE SENSOR FOR MOTORIZED DOOR
ESSEX ELECTORNICS #32NF3X.

INTERCOM STATION (REFER TO SPECS. FOR FUNCTIONAL OPERATION OF INSTRUMENT & TYPE REQUIRED)

S — INTERCOM STAFF STATION.

R — RADIO CHANNEL SELECTOR FACILITIES, MTD. 4'-6" (1372 mm) AFF UNLESS OTHERWISE NOTED.

R M — SPEAKER PROGRAM SELECTOR SWITCH & VOLUME CONTROL MTD. 4'-6" (1372 mm) AFF UNLESS OTHERWISE NOTED.

DB — DURESS BUTTON

DAP — DIVERSITY PATCH ANTENNA

DAC — DAS ANTENNA CELLULAR

DS — OVER THE DOOR ALARM SENSOR PERVENTIVE

S PA — PUBLIC ADDRESS SYSTEM
2X2 RECESSED SPEAKER

S X — SPEAKER, WALL MOUNTED, "X" INDICATES THE TYPE, PROVIDE SCHEDULE ON LEGEND MTD. 7'-6" (2286mm) AFF UNLESS OTHERWISE NOTED

S PA — PUBLIC ADDRESS SYSTEM
WALL MOUNTED SPEAKER

S EM — EMERGENCY MANAGEMENT SYSTEM TEXT-TO-SPEECH
WALL MOUNTED SPEAKER.

V — SOUND MASKING (WHITE NOISE) SYSTEM LOCAL KEYPAD
STATION

S X — SPEAKER, CEILING MOUNTED, "X" INDICATES THE TYPE, PROVIDE SCHEDULE ON LEGEND

S PA — PUBLIC ADDRESS SYSTEM
CEILING RECESSED ROUND SPEAKER

S IC — INTERCOM SYSTEM SPEAKER.

S SM — SOUND MASKING (WHITE NOISE) SYSTEM SPEAKER.

N — NURSE CALL - WALL MOUNTED
-"D" DENOTES DOME LIGHT
-"ST" DENOTES STAFF ASSIST
-"P" DENOTES PULL CORD
-"PS" DENOTES PATIENT STATION WITH STAFF ASSIST AND EMERGENCY CALL

N — NURSE CALL - CEILING MOUNTED
-"D" DENOTES DOME LIGHT
-"DZ" DENOTE ZONE DOME LIGHT

GENERAL SYMBOLS

CATV — CABLE TELEVISION LINE = CATV

CCTV — CLOSED CIRCUIT TELEVISION LINE = CCTV. MINIMUM 1" (25mm) CONDUIT

FO — FIBEROPTICS LINE = FO

T — TELEPHONE LINE = T

I — INTERCOM LINE = I. MINIMUM 3/4" (19mm) CONDUIT.

S — SOUND LINE = S

NC — NURSE CALL LINE = NC. MINIMUM 3/4" (19mm) CONDUIT.

R — RADIO CONDUIT RUN, MINIMUM 3/4" (19mm) CONDUIT.

C — TELECOMMUNICATIONS MANHOLE

TELECOMMUNICATION TERMINAL CABINET

TTB — TELEPHONE BACKBOARD (WALL MOUNTED)

ICT DRAWING INDEX

T001	ICT - LEGEND, SYMBOLS AND ABBREVIATIONS
TD102.1	ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K AREA
TD102.2	ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2B AREA
TD102	ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND & THIRD FLOOR
T102.1	ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR - 2K AREA
T102.2	ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR - 2B AREA
T102.3	ICT - TELECOMMUNICATIONS CABLE TRAY - PARTIAL SECOND FLOOR - 2K, 2B AREAS
T102	ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR
T103	ICT - TELECOMMUNICATIONS PLAN - THIRD FLOOR
TS102.1	ICT - SECURITY PLAN - PARTIAL SECOND FLOOR - 2K AREA
TS102.2	ICT - SECURITY PLAN - PARTIAL SECOND FLOOR - 2B AREA
T411	ICT - TELECOMMUNICATIONS RISER DIAGRAM
T511	ICT - DETAILS
T512	ICT - DETAILS
T513	ICT - DETAILS

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5/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ICT - LEGEND, SYMBOLS AND ABBREVIATIONS

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026 | Checked: WG | Drawn: JC

Project Number: 521-24-102

Building Number: #1

Drawing Number: T001

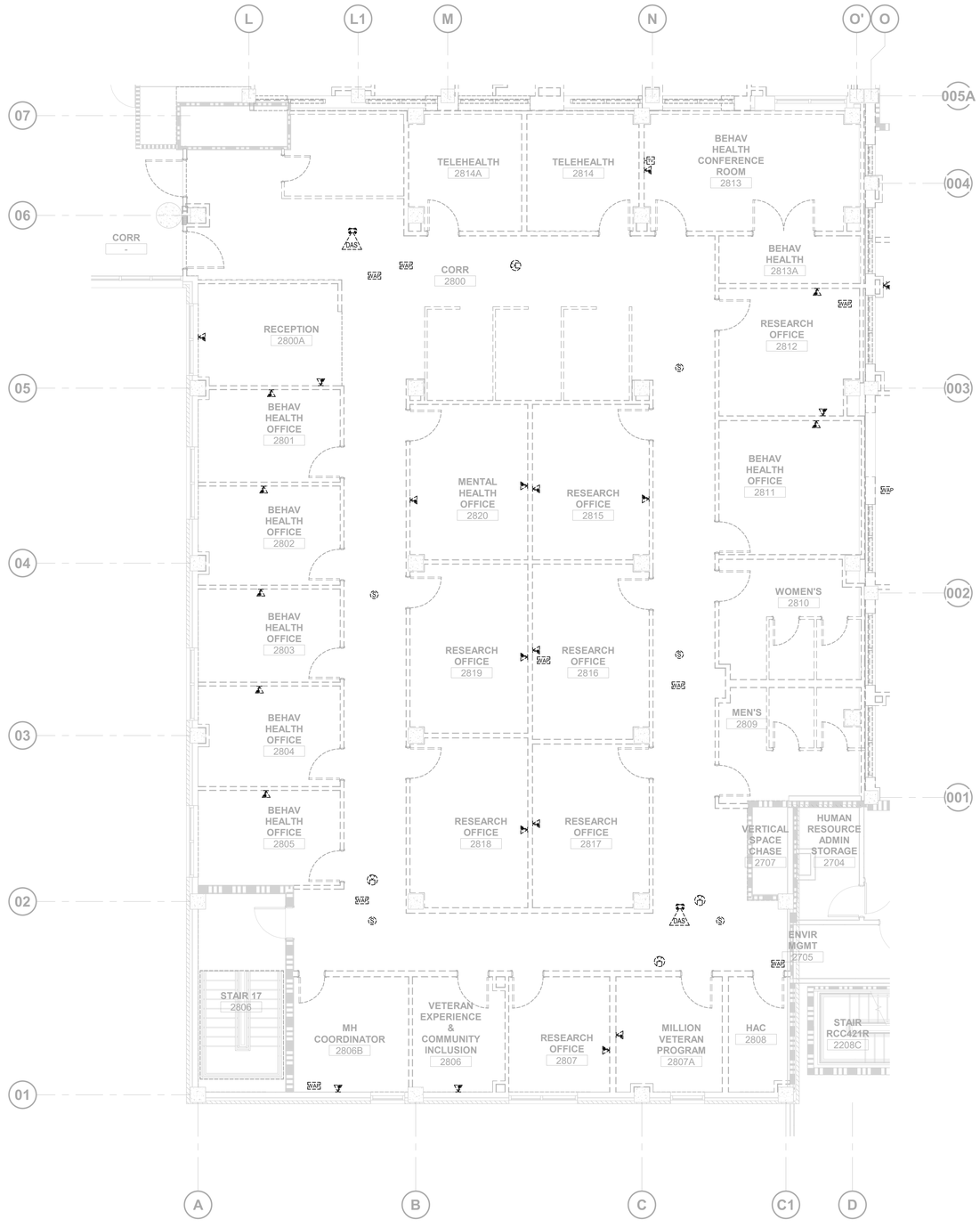
VA FORM 08-6231

TELECOM DEMOLITION GENERAL NOTES

A. DARK DASHED LINES SHALL BE REMOVED AND DEMOLISHED BACK TO SOURCE, INCLUDING WIRING, CONDUIT, HARDWARE, ETC, UNLESS OTHERWISE NOTED.

B. WIRELESS ACCESS POINTS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLE BACK TO SOURCE. COORDINATE WITH VA OI&T.

C. DAS ANTENNAS SHALL BE PROTECTED IN PLACE. TEST FOR FUNTIONALITY. PROVIDE TEMPORARY ANTENNA AND CABLING SUPPORT. TO BE REINSTALLED WITHIN 2FT OF THE SAME LOCATION AFTER NEW PLENUM WORK IS COMPLETE. ANY DAMAGE TO THE ANTENNA OR CABLING SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH VA OI&T.



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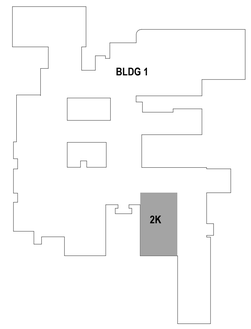
1 **02 TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K AREA**

3/16" = 1'-0"

0 8' 16' 24'



KEYPLAN

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RCDD
5/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2K AREA

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: WG

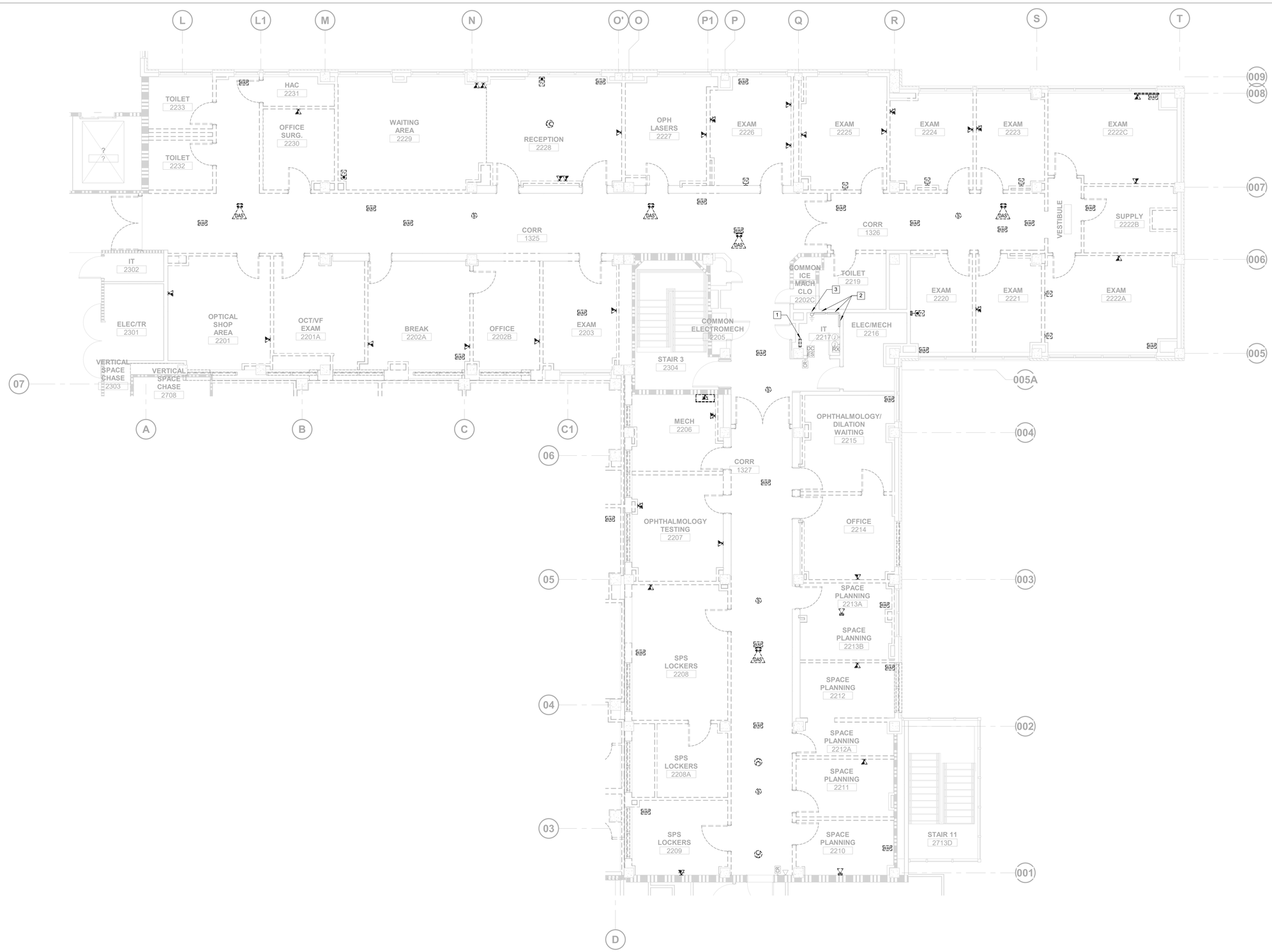
Drawn: JC

Project Number: 521-24-102

Building Number: #1

Drawing Number: TD102.1

VA FORM 08-6231



TELECOM DEMOLITION GENERAL NOTES

A. DARK DASHED LINES SHALL BE REMOVED AND DEMOLISHED BACK TO SOURCE, INCLUDING WIRING, CONDUIT, HARDWARE, ETC, UNLESS OTHERWISE NOTED.

B. WIRELESS ACCESS POINTS SHALL BE CAREFULLY REMOVED AND STORED IN A VA DESIGNATED SECURED SITE. PULL CABLE BACK TO SOURCE. COORDINATE WITH VA OI&T.

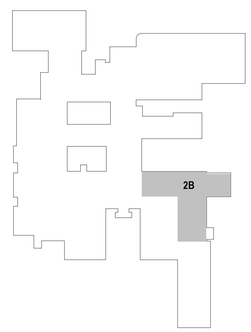
C. DAS ANTENNAS SHALL BE PROTECTED IN PLACE. TEST FOR FUNTIONALITY. PROVIDE TEMPORARY ANTENNA AND CABLING SUPPORT. TO BE REINSTALLED WITHIN 2FT OF THE SAME LOCATION AFTER NEW PLENUM WORK IS COMPLETE. ANY DAMAGE TO THE ANTENNA OR CABLING SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH VA OI&T.

TELECOM DEMOLITION KEYNOTES

1 REMOVE AND DEMOLISH ACCESS CONTROL PANEL. EXTEND ANY EXISTING TO REMAIN CIRCUITS TO THE NEW ACCESS CONTROL PANEL LOCATION.

2 EXISTING COPPER TELEPHONE SYSTEM, PUNCHBLOCKS AND CABLING TO REMAIN.

3 EXISTING TELECOMMUNICATIONS GROUNDING BUSBAR TO REMAIN.



KEYPLAN

N

1 02 TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2B AREA

3/16" = 1'-0"

0 8' 16' 24'

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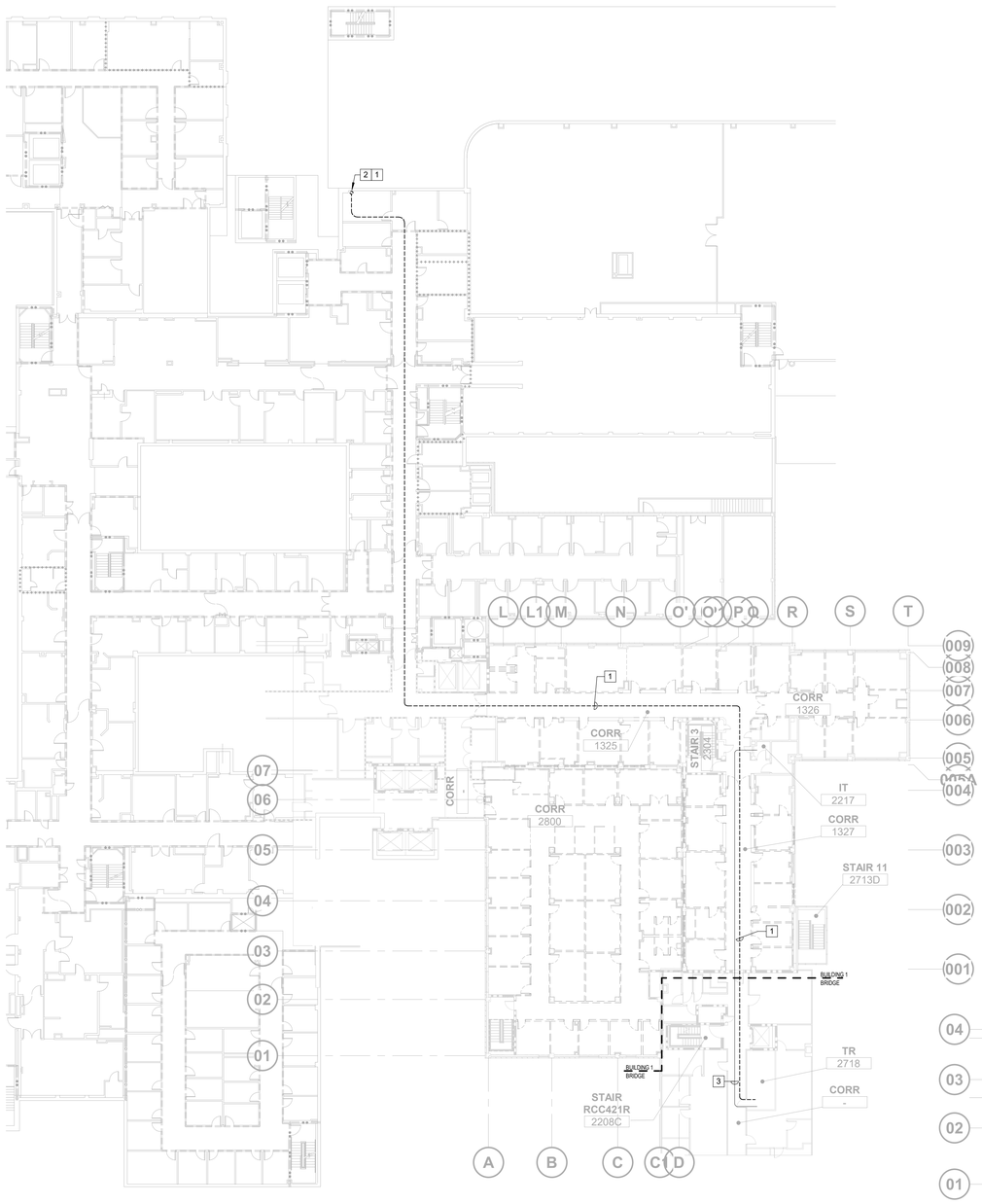
5/15/2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR - 2B AREA
Approved: Project Director	
Phase	ISSUED FOR BID
	FULLY SPRINKLERED
Project Title	RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY
Location	BIRMINGHAM VAMC
Issue Date	05/15/2026
Checked	WG
Drawn	JC
Project Number	521-24-102
Building Number	#1
Drawing Number	TD102.2

VA FORM 08-6231



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1 02 TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND FLOOR

1" = 20'-0"

0 10' 20' 40'

N

2 03 TELECOMMUNICAITONS DEMOLITION PLAN - PARTIAL THIRD FLOOR

1" = 20'-0"

0 10' 20' 40'

TELECOM DEMOLITION KEYNOTES

1 BACKBONE FIBER TO BE REMOVED AND DEMOLISHED FROM MDA FIBER PATCH PANEL TO EACH TR ROOM FIBER PATCH PANEL PER SHEET 1/T411 BACKBONE CABLING DIAGRAM, AND RE-PULLED IN RENOVATION NEW WORK. COORDINATE WITH COR AND OI&T FOR ZERO DOWNTIME. APPROXIMATE PATH. VERIFY IN FIELD. ACTUAL LOCATION PER FINAL EHRM CONSTRUCTION. CONTRACTOR TO ACCOMODATE FOR THIS CONTINGENCY. ANY DAMAGE TO THE EXISTING FIBER CABLE SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

2 TO THIRD FLOOR MAIN COMPUTER ROOM.

3 EXISTING TBB (TELECOMMUNICATIONS BONDING BACKBONE) SERVING SECOND FLOOR. DISCONNECT AND REMOVE TBB BACK TO TGB (TELECOMMUNICATIONS GROUNDING BUSBAR) IN SECOND FLOOR. PROVIDE NEW TBB FROM IT 2217 TO TR 2718 IMMEDIATLY FOR MINIMAL DOWNTIME. THE CONTRACTOR SHALL COORDINATE WITH ALL CONTRACTORS TO PROVIDE A NEW ROUTE PRIOR TO NEW WORK TO MINIMIZE DOWN TIME. COORDINATE WITH VA OI&T.

4 UTILIZE EXISTING SLEEVE FROM 2ND FLOOR LEVEL.

5 TO SECOND FLOOR LEVEL.

6 TO SECOND FLOOR LEVEL TR2 2718.

7 EXISTING T-MOBILE EQUIPMENT HEAD-END UNIT.

8 EXISTING PAGING AMPLIFIER

9 EXISTING PAGING SYSTEM.

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Drawing Title ICT - TELECOMMUNICATIONS DEMOLITION PLAN - PARTIAL SECOND & THIRD FLOOR

Approved: Project Director

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Location BIRMINGHAM VAMC

Issue Date 05/15/2026 | **Checked** WG | **Drawn** JC

Project Number 521-24-102

Building Number #1

Drawing Number TD102

VA FORM 08-6231

TELECOMMUNICATIONS GENERAL NOTES

A. DAS ANTENNAS SHALL BE REINSTALLED WITHIN 2FT OF THE SAME LOCATION AFTER NEW PLENUM WORK IS COMPLETE. CLEAN OF DEBRIS AND TEST FOR FUNTIONALITY. CONTRACTOR TO REPLACE ANY NON-WORKING ANTENNAS AND CABLING.

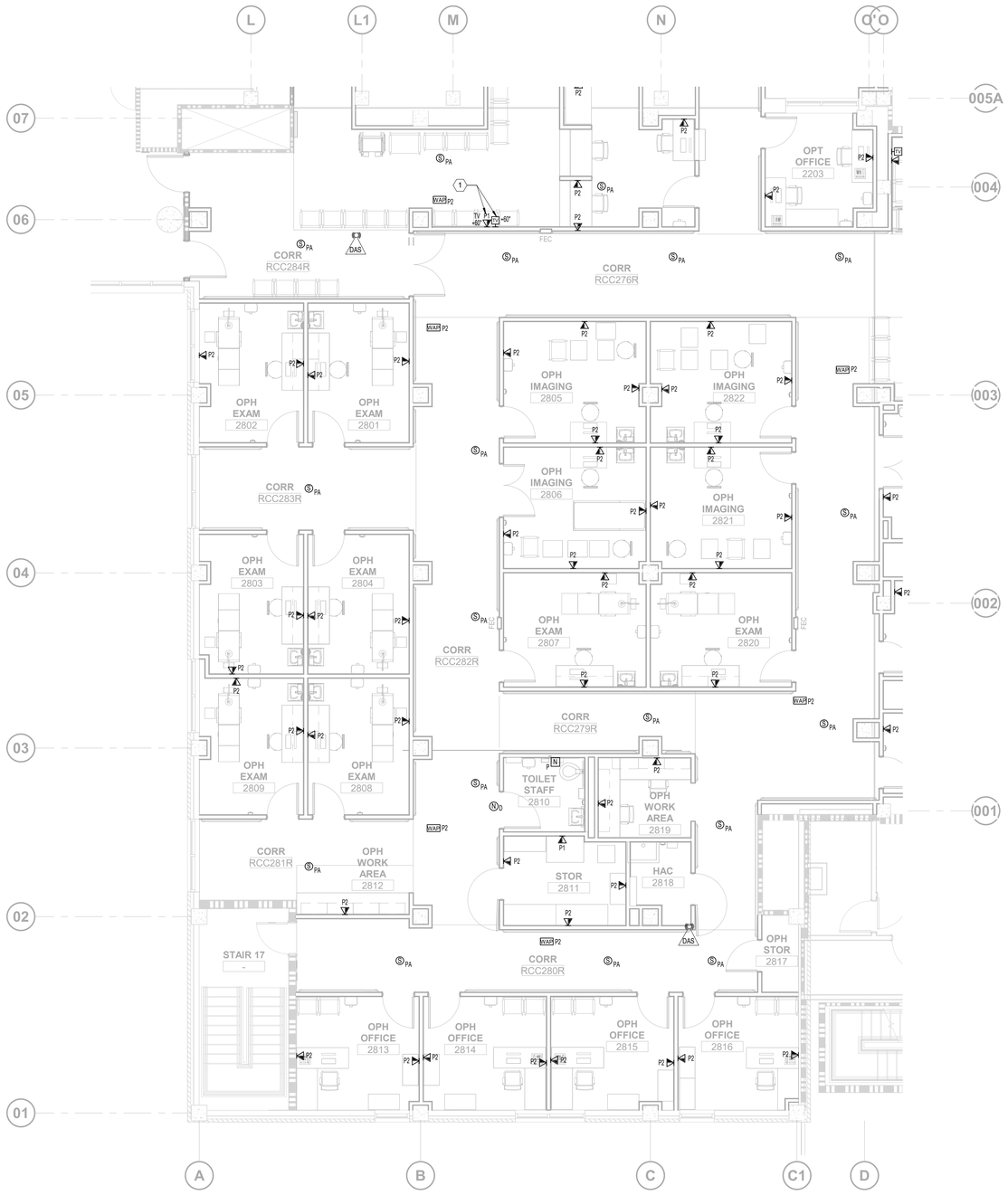
B. NURSE CALL SYSTEM HEAD-END CABINET LOCATED IN BUILDING 1, SECOND FLOOR, TR2 2718. REFER TO SHEET T102.2 FOR EXACT CABINET LOCATION. NURSE CALL SYSTEM SHALL BE COMPATIBLE WITH THE FACILITY'S EXISTING ASCOM TELLIGENCE SYSTEM.

C. NURSE CALL MASTER STATION LOCATED IN BUILDING 1, THIRD FLOOR, ROOM HEALTHCARE ADMIN SVC SWITCHBOARD OPERATION ROOM 3313.

D. WORK AREA OUTLETS TO TERMINATE TO PATCH PANELS IN TR2 2718.

TELECOMMUNICATIONS KEYNOTES

1 MOUNT OUTLETS TO TELEVISION OUTLET ENCLOSURE. REFER TO DETAIL FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION WITH ARCHITECTRUAL ELEVATIONS.

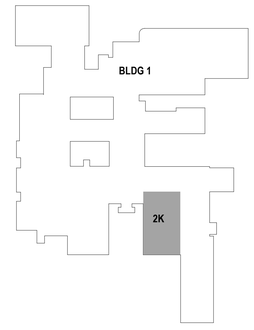


N

1 **02 TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR - 2K AREA**

3/16" = 1'-0"

0 8' 16' 24'



KEYPLAN

ISSUE FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	3/16/2026
95% CONSTRUCTION DOCUMENTS	01/30/2026
65% DESIGN DEVELOPMENT RESUBMITTAL	12/01/2025
65% DESIGN DEVELOPMENT SUBMISSION	09/08/2025
Revisions:	Date:

CONSULTANT

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VA CONTRACT NO.36C24724C0036
Bancroft Project No. 23-135

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5/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR - 2K AREA	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
Approved: Project Director	FULLY SPRINKLERED	Location: BIRMINGHAM VAMC	Building Number: #1
		Issue Date: 05/15/2026 / Checked: WG / Drawn: JC	Drawing Number: T102.1

VA FORM 08-6231

TELECOMMUNICATION GENERAL NOTES

A. DAS ANTENNAS SHALL BE REINSTALLED WITHIN 2FT OF THE SAME LOCATION AFTER NEW PLENUM WORK IS COMPLETE. CLEAN OF DEBRIS AND TEST FOR FUNTIONALITY. CONTRACTOR TO REPLACE ANY NON-WORKING ANTENNAS AND CABLING.

B. NURSE CALL SYSTEM HEAD-END CABINET LOCATED IN BUILDING 1, SECOND FLOOR, TR2 2718. REFER TO SHEET T102.2 FOR EXACT CABINET LOCATION. NURSE CALL SYSTEM SHALL BE COMPATIBLE WITH THE FACILITY'S EXISTING ASCOM TELLIGENCE SYSTEM.

C. NURSE CALL MASTER STATION LOCATED IN BUILDING 1, THIRD FLOOR, ROOM HEALTHCARE ADMIN SVC SWITCHBOARD OPERATION ROOM 3313.

D. WORK AREA OUTLETS TO TERMINATE TO PATCH PANELS IN TR2 2718.

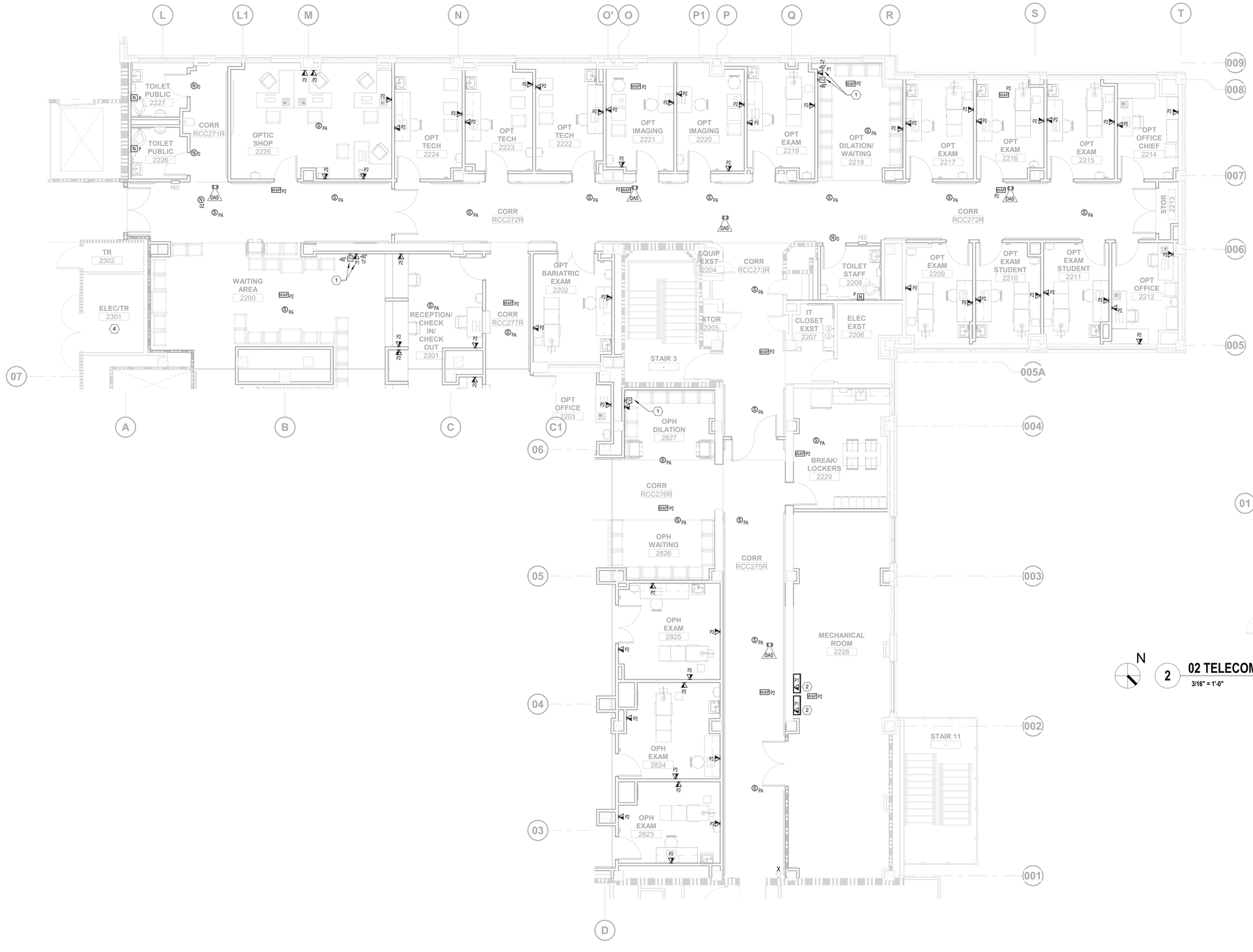
TELECOMMUNICATION KEYNOTES

1 MOUNT OUTLETS TO TELEVISION OUTLET ENCLOSURE. REFER TO DETAIL FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION WITH ARCHITECTRUAL ELEVATIONS.

2 DIRECT DIGITAL CONTROL (DDC) PANEL. COORDINATE EXACT LOCATION AND QUANTITY WITH TEMPERATURE CONTROLS (TC) CONTRACTOR.

3 PROVIDE NURSE CALL SYSTEM HEAD-END CABINET AND NETWORK CONNECTION TO TR PATCH PANEL SERVING THIS AREA. CABINET TO SERVE 2K,2B.

4 CATV RISER.



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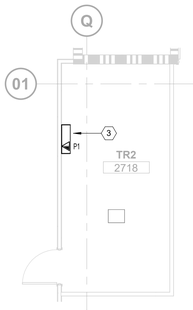
1 02 TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR - 2B AREA

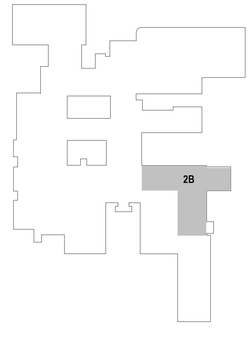
3/16" = 1'-0"



N

2 02 TELECOMMUNICATIONS PLAN - ROOM TR2 2718

3/16" = 1'-0"



KEYPLAN

0 8' 16' 24'

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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: ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR - 2B AREA

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: WG

Drawn: JC

Project Number: 521-24-102

Building Number: #1

Drawing Number: T102.2

VA FORM 08-6231

TELECOMMUNICATIONS GENERAL NOTES

A. ALL INSTALLATION TECHNIQUES SHALL BE REVIEWED WITH AND APPROVED BY THE COR. THE CONTRACTOR SHALL INCLUDE CONTINGENCY IN HIS BID FOR ANY ADDITIONAL EFFORT OR WORK ABOVE NORMAL. REFER TO ARCHITECTURAL OPEN CEILING PLANS AND COORDINATE WITH ALL TRADES.

B. ALL JUNCTION BOX COVERS SHALL BE LABELED WITH THE APPROPRIATE PANEL/CIRCUIT NUMBERS AND THE TYPE OF SYSTEM THE WIRING IS SERVING. I.E. FIRE ALARM, LIGHTING, ETC.

C. HATCHED AREAS NOT IN SCOPE OF WORK.

D. WIRE MESH CABLE TRAY SIZE AS SHOWN ON PLAN.

E. TELECOMMUNICATIONS CABLE TRAY SHALL BE PLACED AT LOWEST POSITION WITHIN CEILING SPACE FOR EASY AND FREQUENT ACCESS.

F. TELECOMMUNICATIONS CABLE TRAY SHALL BE INSTALLED IN A LINEAR FASHION, EITHER PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURE. JOGS, SHIFTS OR DIRECTIONAL CHANGES THAT ARE NOT 90 DEGREES SHALL BE AVOIDED WHENEVER POSSIBLE.

G. TELECOMMUNICATIONS CABLE TRAY SHALL BE INSTALLED ON A CONTINUOUS HORIZONTAL PLANE. CHANGES IN ELEVATION SHALL BE AVOIDED WHENEVER POSSIBLE.

H. OTHER UTILITIES SHALL NOT BE ALLOWED TO BE PLACED BELOW TELECOMMUNICATIONS CABLE TRAY.

I. OTHER UTILITIES, CONDUIT OR CABLING SHALL NOT BE PERMITTED TO PASS THRU THE TELECOMMUNICATIONS CABLE TRAY, EITHER VERTICALLY OR HORIZONTALLY.

J. TELECOMMUNICATIONS CABLE TRAY SHALL NOT BE CUT IN SUCH A WAY THAT IT WEAKENS THE STRUCTURAL INTEGRITY OF THE CABLE TRAY.

K. WHERE PERMISSIBLE, BOTTOM OF TELECOMMUNICATIONS CABLE TRAY SHALL BE PLACED 6" ABOVE TOP OF CEILING T-BAR GRID AND SUSPENDED BAFFLES, BUT UNDER NO CIRCUMSTANCES SHALL SEPARATION BE LESS THAN 3 INCHES.

L. ONE SIDE OF TELECOMMUNICATIONS CABLE TRAY SHALL HAVE A MINIMUM OF 12 INCHES OF HORIZONTAL CLEARANCE TO ALLOW FOR ACCESS TO CABLES FOR MOVES, ADDS AND CHANGES.

M. FROM THE TOP OF THE TELECOMMUNICATIONS CABLE TRAY THERE SHALL BE A MINIMUM OF 12 INCHES OF VERTICAL CLEARANCE TO ALLOW FOR ACCESS TO CABLES FOR MOVE, ADDS AND CHANGES. WHERE THE DISTANCES DOES NOT EXCEED 6'-0", VERTICAL CLEARANCE MAY BE REDUCED TO 6 INCHES. WHERE DISTANCE DOES NOT EXCEED 3'-0", VERTICAL CLEARANCE MAY BE REDUCED TO 3 INCHES. IF VERTICAL CLEARANCE DOES NOT MEET THE ABOVE CRITERIA, TELECOMMUNICATIONS CABLE TRAY SHALL BE TRANSITIONED INTO CONDUIT WHICH EXTENDS A MINIMUM OF 3 INCHES PAST OBSTRUCTION. CONDUIT CROSS-SECTIONAL CALCULATED FILL AREA SHALL BE EQUAL TO OR GREATER THAN THE CROSS-SECTIONAL CALCULATED FILL AREA OF THE TELECOMMUNICATIONS CABLE TRAY.

N. WHERE OTHER DISCIPLINES EQUIPMENT ARE IN CLOSE PROXIMITY WITH TELECOMMUNICATIONS CABLE TRAY OR CONDUIT AND REQUIRE MAINTENANCE, COORDINATE TELECOMMUNICATIONS PATHWAY WITH OTHER DISCIPLINES TO ALLOW FOR MAINTENANCE CLEARANCE AND ROUTING OF TELECOMMUNICATIONS PATHWAYS.

O. CABLE TRAY SHALL NOT INTERFERE WITH EQUIPMENT SUCH AS VAV MAINTENANCE CLEARANCES. COORDINATE WITH MECHANICAL CONTRACTOR.

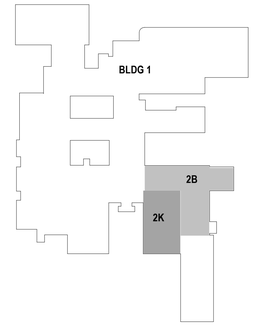
P. COORDINATE CABLE TRAY PHASING WITH OTHER SYSTEMS IN THE CEILING SPACE.

TELECOMMUNICATIONS KEYNOTES

1 PROVIDE NEW SLEEVES IF EXSITING SLEEVES ARE NOT DEEMED REUSABLE. RECAULK EXISTING SLEEVES.

2 CONDUIT TRANSITION.

3 PROVIDE ACCESS CONTROL PANEL AND POWER SUPPLIES.



KEYPLAN

N

1 02 TELECOMMUNICATIONS CABLE TRAY - PARTIAL SECOND FLOOR - 2K, 2B AREAS

1/8" = 1'-0"

ISSUE FOR BID	05/15/2026
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BICSI Chris Carter BICSI ID # 136803 Expires 03-01-27 RCDD
5/15/2026

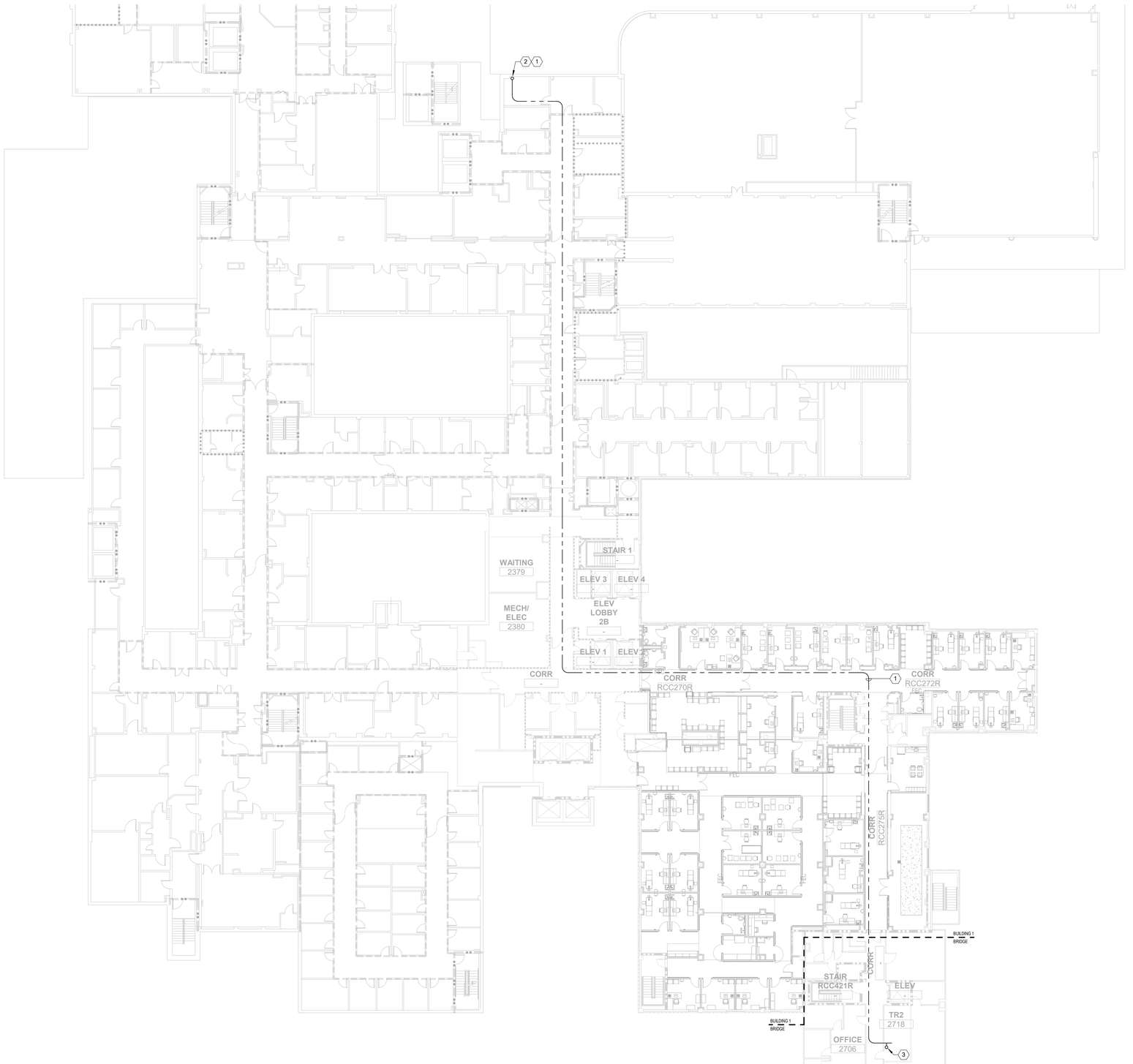
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

0 4' 8' 16'

Drawing Title: ICT - TELECOMMUNICATIONS CABLE TRAY - PARTIAL SECOND FLOOR - 2K, 2B AREAS	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
			Building Number: #1
Approved: Project Director	FULLY SPRINKLERED	Location: BIRMINGHAM VAMC	Drawing Number: T102.3
		Issue Date: 05/15/2026 / Checked: WG / Drawn: JC	

VA FORM 08-6231



TELECOMMUNICATIONS KEYNOTES

1 PROVIDE NEW BACKBONE FIBER FROM MCR EXISTING MDA FIBER PATCH PANEL TO EACH EXISTING TR ROOM FIBER PATCH PANEL PER SHEET 1/T411 BACKBONE CABLING DIAGRAM. FIBER TYPE TO BE EQUAL TO THAT OF THE DEMOLISHED FIBER. COORDINATE EXACT REQUIREMENTS WITH VA OI&T. FOLLOW EXISTING PATH AND ADJACENT FIBER RUNS. SUPPORT METHODS EQUAL TO ADJACENT FIBER RUNS. APPROXIMATE PATH. VERIFY IN FIELD. ACTUAL LOCATION PER FINAL EHRM CONSTRUCTION. CONTRACTOR TO ACCOMODATE FOR THIS CONTINGENCY. ANY DAMAGE TO THE EXISTING FIBER CABLE SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

2 TO THIRD FLOOR MAIN COMPUTER ROOM.

3 TO THIRD FLOOR LEVEL TR2 3718.

N

1 **02 TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR**

1/16" = 1'-0"

0 8' 16' 32'

ISSUE FOR BID	05/15/2026
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Chris Carter
BICSI ID # 108893
Expires 12-31-27
RCDD

5/15/2026

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VA U.S. Department of Veterans Affairs

Drawing Title: ICT - TELECOMMUNICATIONS PLAN - PARTIAL SECOND FLOOR

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: WG

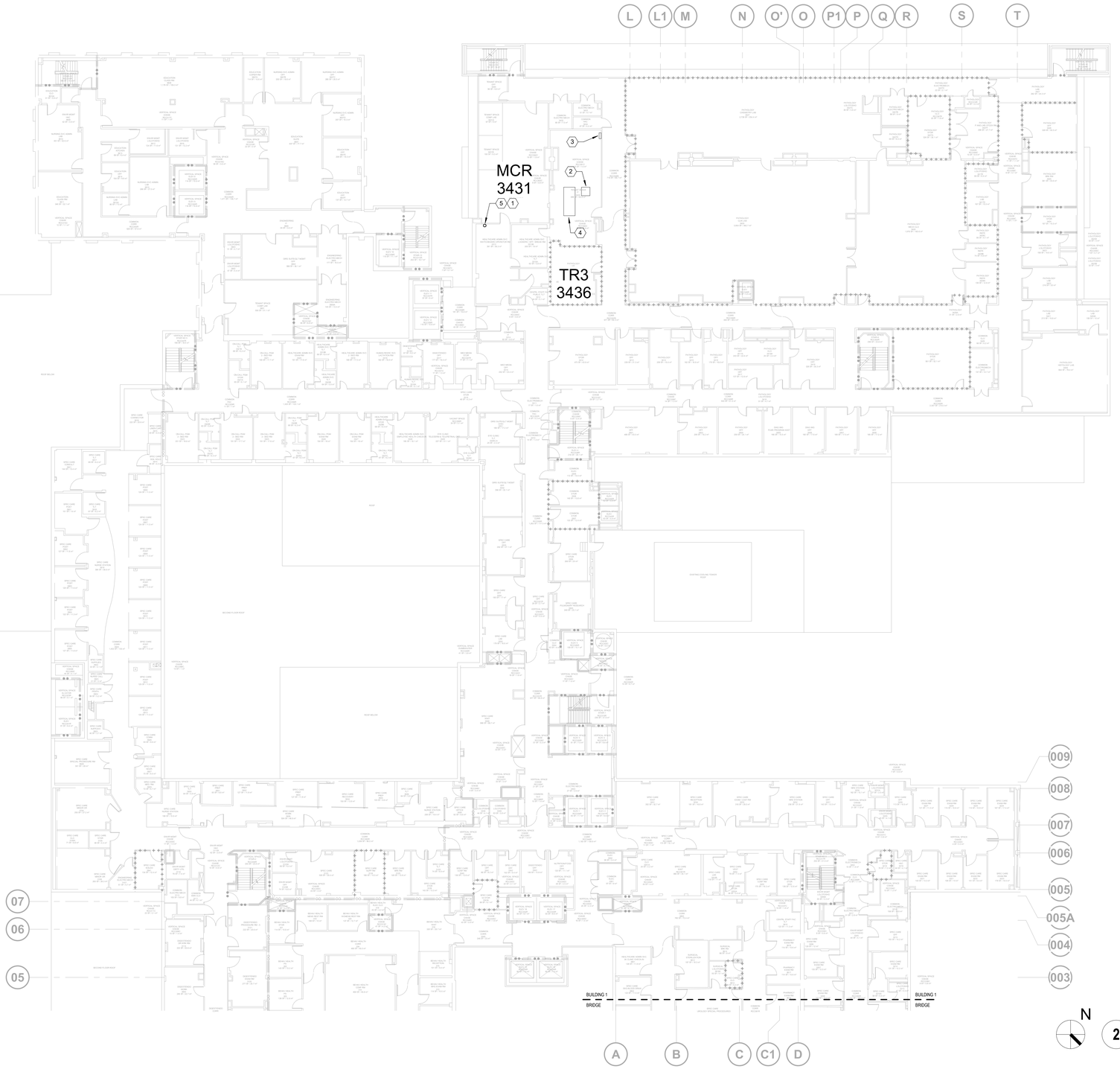
Drawn: JC

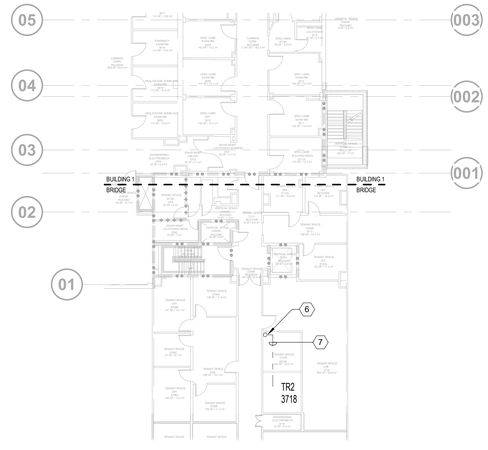
Project Number: 521-24-102

Building Number: #1

Drawing Number: T102

VA FORM 08-6231





TELECOMMUNICATIONS KEYNOTES

1 PROVIDE NEW BACKBONE FIBER FROM MCR EXISTING MDA FIBER PATCH PANEL TO EACH EXISTING TR ROOM FIBER PATCH PANEL PER SHEET 1/T411 BACKBONE CABLING DIAGRAM. FIBER TYPE TO BE EQUAL TO THAT OF THE DEMOLISHED FIBER. COORDINATE EXACT REQUIREMENTS WITH VA OI&T. FOLLOW EXISTING PATH AND ADJACENT FIBER RUNS. SUPPORT METHODS EQUAL TO ADJACENT FIBER RUNS. APPROXIMATE PATH. VERIFY IN FIELD. ACTUAL LOCATION PER FINAL EHRM CONSTRUCTION. CONTRACTOR TO ACCOMODATE FOR THIS CONTINGENCY. ANY DAMAGE TO THE EXISTING FIBER CABLE SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

2 EXISTING PAGING AMPLIFIER

3 EXISTING PAGING SYSTEM.

4 EXISTING T-MOBILE EQUIPMENT HEAD-END UNIT.

5 UTILIZE EXISTING SLEEVE FROM 2ND FLOOR LEVEL.

6 TO SECOND FLOOR LEVEL TR2 2718.

7 PROVIDE NEW BACKBONE FIBER FROM MCR EXISTING MDA FIBER PATCH PANEL TO EACH EXISTING TR ROOM FIBER PATCH PANEL PER SHEET 1/T411 BACKBONE CABLING DIAGRAM. FIBER TYPE TO BE EQUAL TO THAT OF THE DEMOLISHED FIBER. COORDINATE EXACT REQUIREMENTS WITH VA OI&T. FOLLOW EXISTING PATH AND ADJACENT FIBER RUNS. SUPPORT METHODS EQUAL TO ADJACENT FIBER RUNS. APPROXIMATE PATH. VERIFY IN FIELD. ACTUAL LOCATION PER FINAL EHRM CONSTRUCTION. CONTRACTOR TO ACCOMODATE FOR CONTINGENCY. ANY DAMAGE TO THE EXISTING FIBER CABLE SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

N

1 03 TELECOMMUNICATIONS PLAN - PARTIAL THIRD FLOOR

1/16" = 1'-0"

N

2 03 TELECOMMUNICATIONS PLAN - PARTIAL THIRD FLOOR BRIDGE

1/16" = 1'-0"

0 8' 16' 32'

ISSUE FOR BID	05/15/2026
100% CONSTRUCTION DOCUMENTS	3/16/2026
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Drawing Title: ICT - TELECOMMUNICATIONS PLAN - THIRD FLOOR

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location: BIRMINGHAM VAMC

Issue Date: 05/15/2026

Checked: WG

Drawn: JC

Project Number: 521-24-102

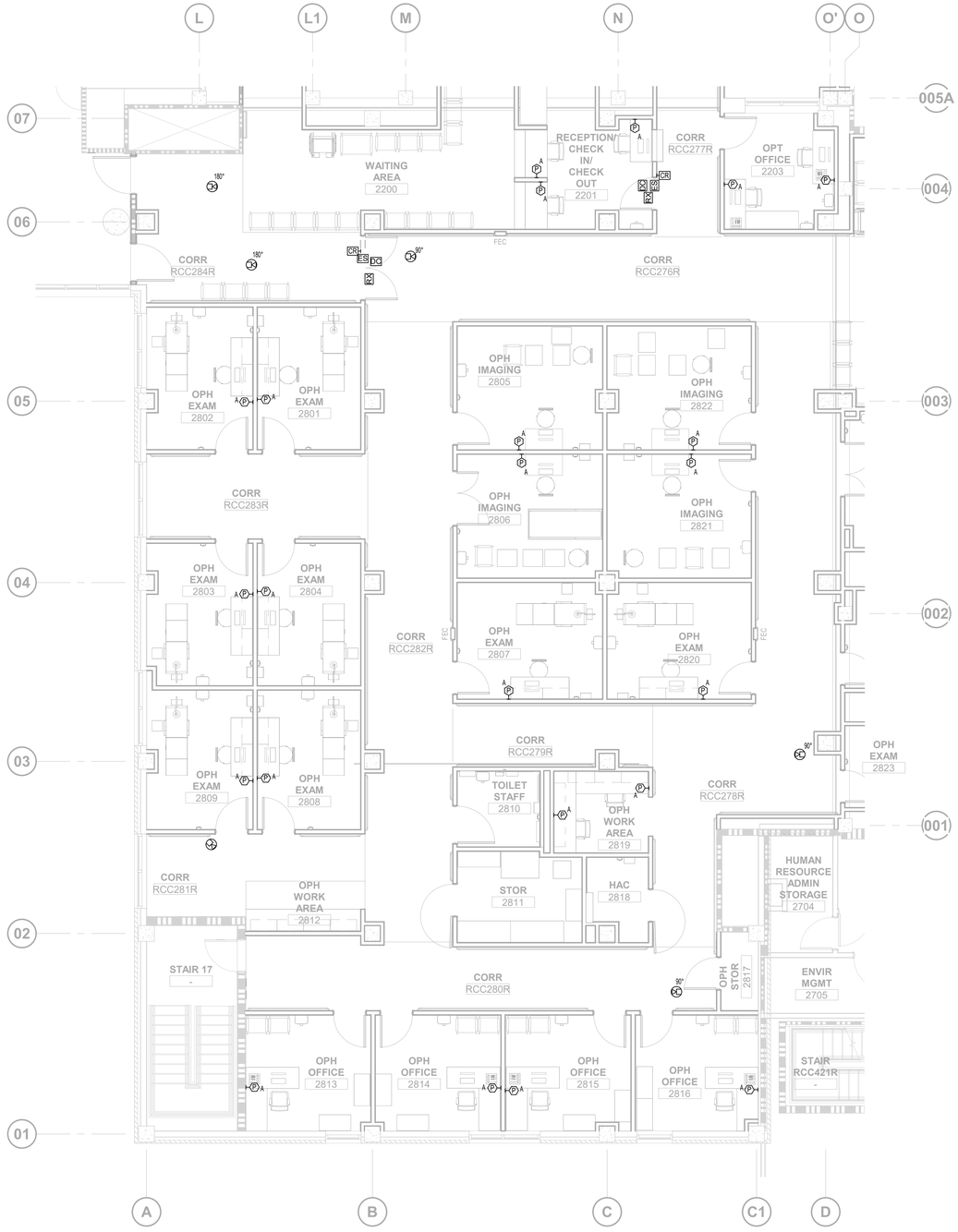
Building Number: #1

Drawing Number: T103

VA FORM 08-6231

SECURITY GENERAL NOTES

A. REFER TO SHEET 1/T102.3 FOR ACCESS CONTROLS PANEL LOCATION.



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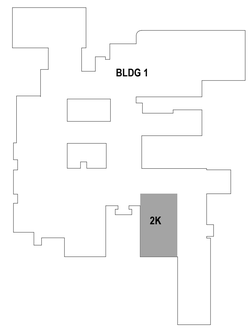
1 02 SECURITY PLAN - PARTIAL SECOND FLOOR - 2K AREA

3/16" = 1'-0"

0 8' 16' 24'



KEYPLAN

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5/15/2026

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Drawing Title: ICT - SECURITY PLAN - PARTIAL SECOND FLOOR - 2K AREA

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

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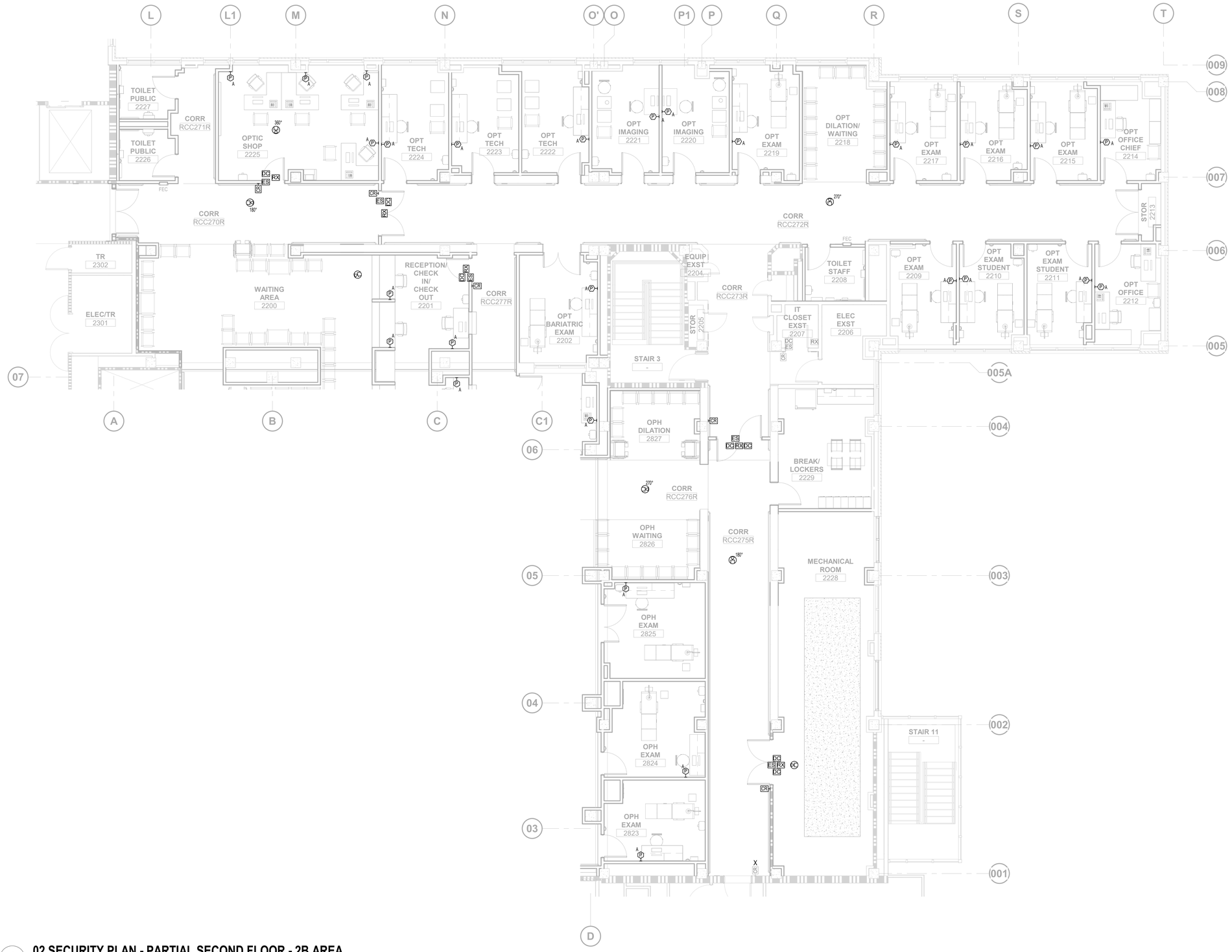
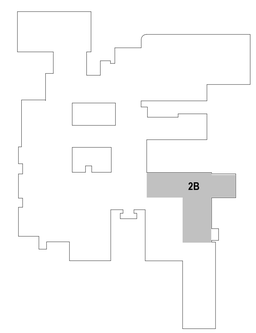


SECURITY GENERAL NOTES

A. REFER TO SHEET 1/T102.3 FOR ACCESS CONTROLS PANEL LOCATION.



KEYPLAN

N

1 **02 SECURITY PLAN - PARTIAL SECOND FLOOR - 2B AREA**

3/16" = 1'-0"

0 8' 16' 24'

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5/15/2026

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VA U.S. Department of Veterans Affairs

Drawing Title: ICT - SECURITY PLAN - PARTIAL SECOND FLOOR - 2B AREA

Approved: Project Director

Phase: ISSUED FOR BID

FULLY SPRINKLERED

Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

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Project Number: 521-24-102

Building Number: #1

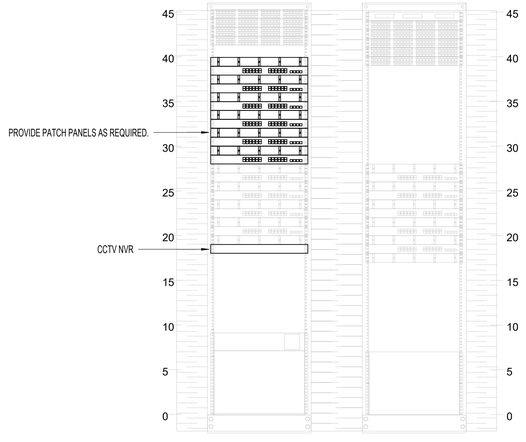
Drawing Number: TS102.2

VA FORM 08-6231

TR EQUIPMENT CAPACITY CALCULATION

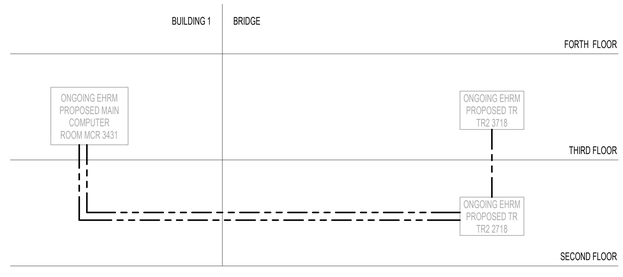
EXISTING CONDITIONS PER ONGOING EHRM UPGRADE. TR2 2718 RACK SERVING 2K, 2B
SCOPE OF WORK HAS A CAPACITY OF 432 PATCH PANEL PORTS IN TOTAL
PER EHRM UPGRADE DESIGN. THE SCOPE OF WORK IS UTILIZING 413 OUT OF 432 PORTS. A REMAINING OFSPARE CAPACITY OF 19 PATCH PANEL PORTS.
THE EXISTING RACK CONTAIN 9 (24) PORT SWITCHES. TOTALING TO 216 SWITCHED PORTS.

THE RENOVATED 2K, 2B DESIGN WILL UTILIZE APPROXIMATLY 258 PORTS. VA TO PROVIDE (2) ADDITIONAL MANAGED SWITCHES TO SUPPORT THE 2K, 2B RENOVATION, UTILIZING THE AVAILABLE RACKS RU SPACE.



2 EXISTING RACK ELEVATION - 2ND FLOOR - TR2 2718

NOT TO SCALE



NOTES:
1. HALFTONE LINEWORK IS EXISTING TO REMAIN. DARK-TONE LINEWORK IS NEW WORK.
2. THIS IS AN ESTIMATED CABLE ROUTING DIAGRAM. TO BE CONFIRMED PER ONGOING EHRM UPGRADE PLANS.
3. FIBER TYPE OM4 AND OS1 TO MATCH PREVIOUSLY DEMOLISHED CABLE. TO BE VERIFIED BY VA OI&T .

1 BACKBONE CABLING DIAGRAM

NOT TO SCALE

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Bancroft Project No. 23-135

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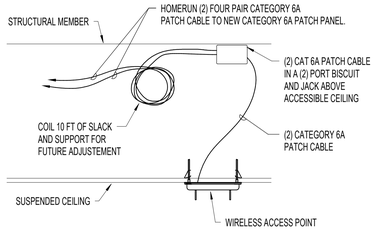
5/15/2026

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

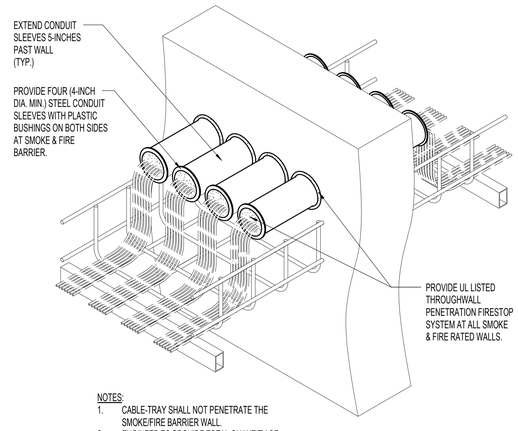
Drawing Title: ICT - TELECOMMUNICATIONS RISER DIAGRAM	Phase: ISSUED FOR BID	Project Title: RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY	Project Number: 521-24-102
Approved: Project Director	FULLY SPRINKLERED	Location: BIRMINGHAM VAMC	Building Number: #1
		Issue Date: 05/15/2026 / Checked: WG / Drawn: JC	Drawing Number: T411

VA FORM 08-6231



1 WIRELESS ACCESS POINT (WAP) DETAIL

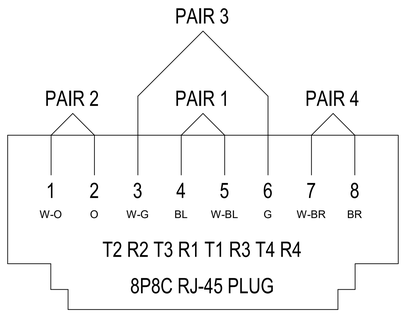
NOT TO SCALE



NOTES:
1. CABLE-TRAY SHALL NOT PENETRATE THE SMOKE/FIRE BARRIER WALL.
2. ENGINEER TO PROVIDE TOTAL QUANTITY OF SLEEVES REQUIRED FOR 150% OF RATED CABLE TRAY CAPACITY.

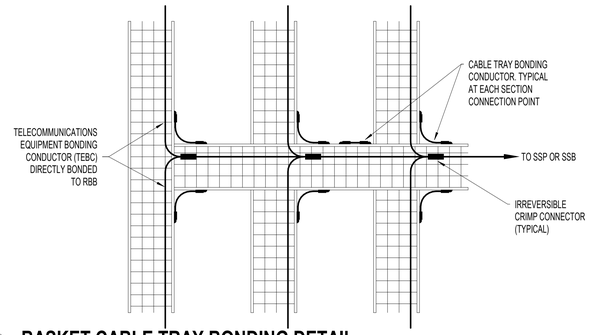
4 CABLE TRAY TRANSITION AT SMOKE & FIRE-RATED WALLS

NOT TO SCALE



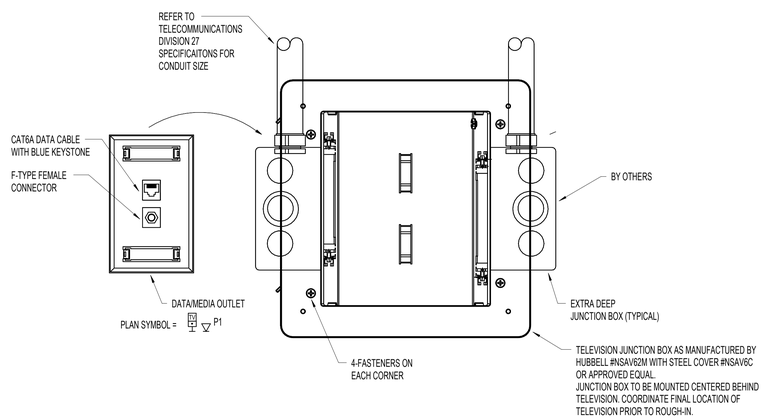
7 TELECOMMUNICATIONS T568B JACK WIRING DIAGRAM

NOT TO SCALE



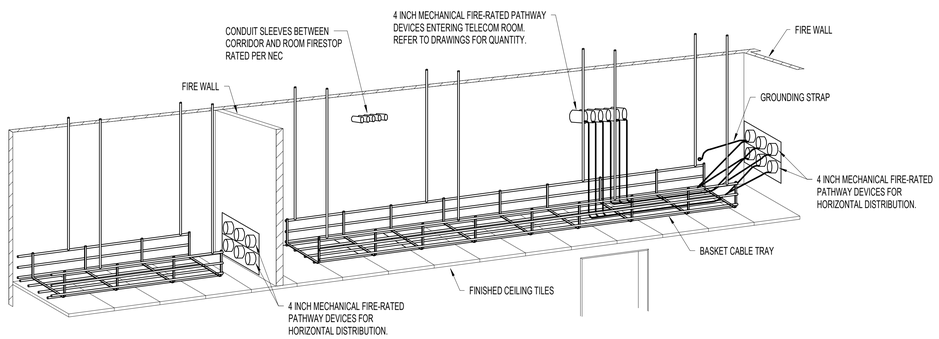
3 BASKET CABLE TRAY BONDING DETAIL

NOT TO SCALE



2 TELEVISION OUTLET ENCLOSURE DETAIL

NOT TO SCALE



6 CABLE TRAY WITH FIRE WALL PENETRATIONS

NOT TO SCALE

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95% CONSTRUCTION DOCUMENTS	**01/30/2026**
65% DESIGN DEVELOPMENT RESUBMITTAL	**12/01/2025**
65% DESIGN DEVELOPMENT SUBMISSION	**09/08/2025**
Revisions:	**Date:**

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Chris Carter
BICSI ID # 149983
Expires 12-31-27
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5/15/2026

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
ICT - DETAILS

Approved: Project Director

Phase
ISSUED FOR BID

FULLY SPRINKLERED

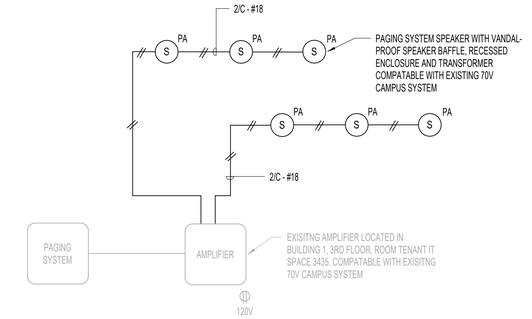
Project Title
RENOVATE WARDS 2K/2B FOR OPTOMETRY/OPHTHALMOLOGY

Location
BIRMINGHAM VAMC

Issue Date 05/15/2026
Checked WG
Drawn JC

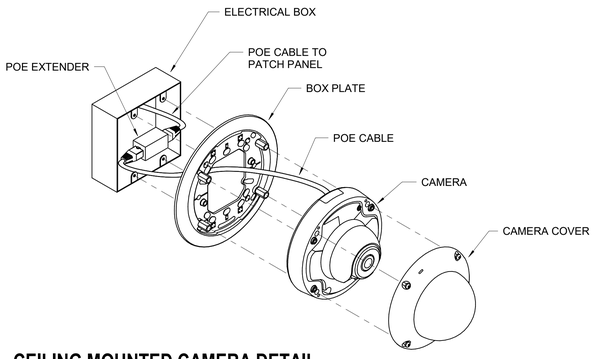
Project Number 521-24-102
Building Number #1
Drawing Number T511

VA FORM 08-6231



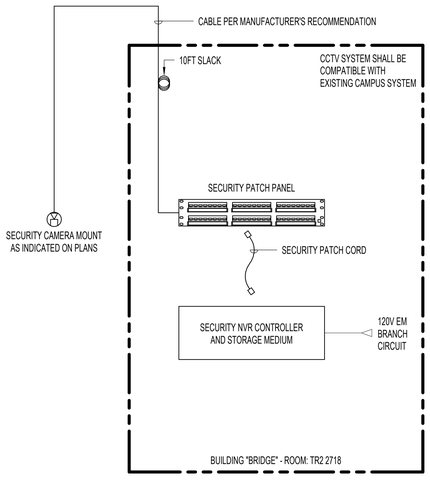
3 TYPICAL PAGING SYSTEM RISER

NOT TO SCALE



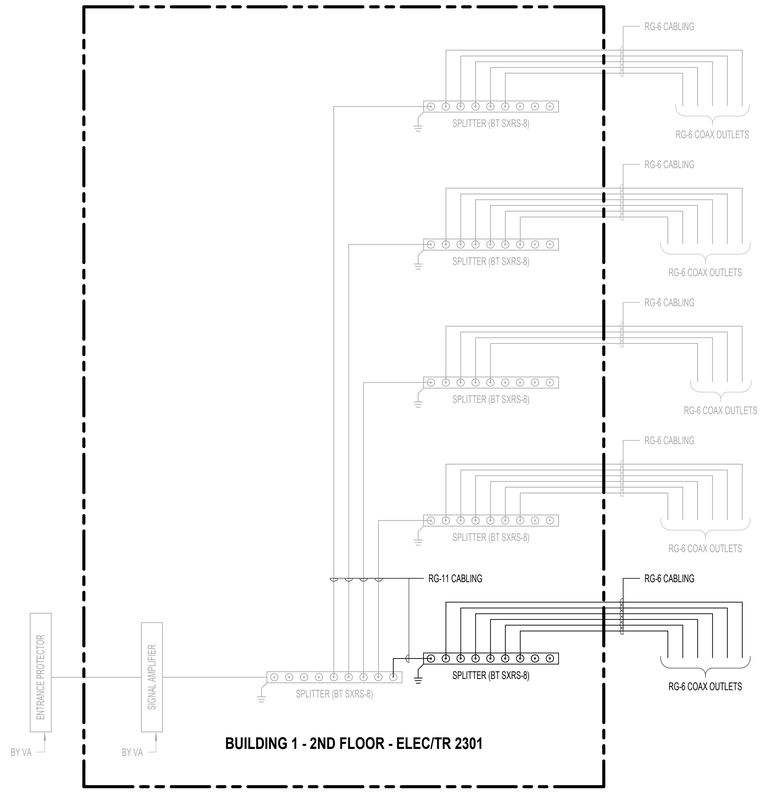
4 CEILING MOUNTED CAMERA DETAIL

NOT TO SCALE



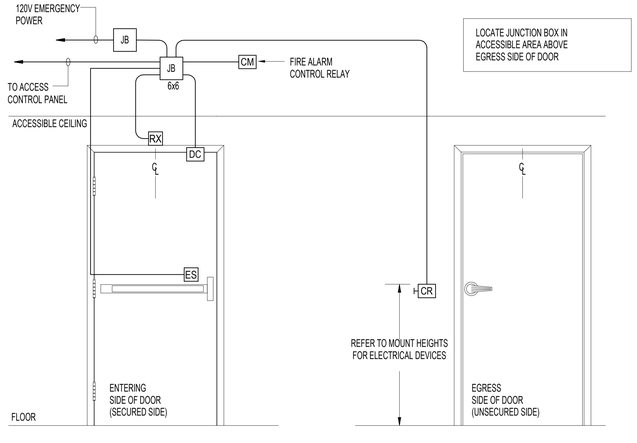
5 TYPICAL VIDEO SURVEILLANCE SYSTEM RISER DIAGRAM

NOT TO SCALE



2 TYPICAL CATV RISER DETAIL

NOT TO SCALE



NOTES:

A. WHERE INSTALLATION DOES NOT OCCUR WHERE THERE IS AN ACCESSIBLE CEILING ABOVE. CONDUITS SHALL HOME RUN TO THE NEAREST ACCESSIBLE CEILING OR TO A SECURITY PANEL.

B. DETAILS ARE REPRESENTATIVE OF TYPICAL INSTALLATION. VERIFY EXACT REQUIREMENTS WITH VA SECURITY VENDOR FOR ROUGH-IN AND POWER.

C. 3/4" CONDUIT MINIMUM.

D. REFER TO ARCHITECTURAL DRAWINGS FOR HARDWARE DOOR SCHEDULE.

ELECTRIC STRIKE KEY NOTES

1. RECESSED MAGNETIC DOOR CONTACT.
2. PROVIDE REQUEST TO EXIT MOTION.
3. ELECTRIC DOOR STRIKE. WIRE THROUGH DOOR TO STRIKE.
4. REQUEST TO EXIT PNEUMATIC PUSH BUTTON.
5. CARD READER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG PLASTER-RING MOUNTED FLUSH WITH WALL.

1 SINGLE DOOR WITH ELECTRIC STRIKE DETAIL

NOT TO SCALE

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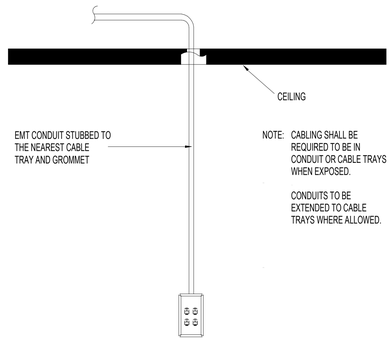
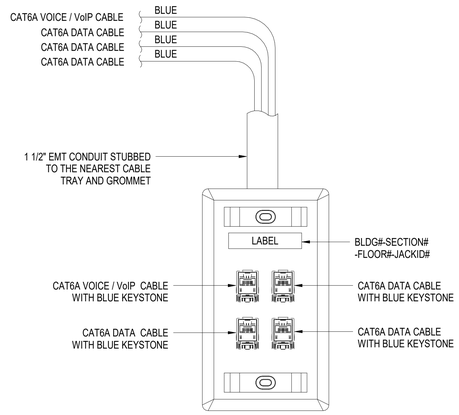
VA FORM 08-6231



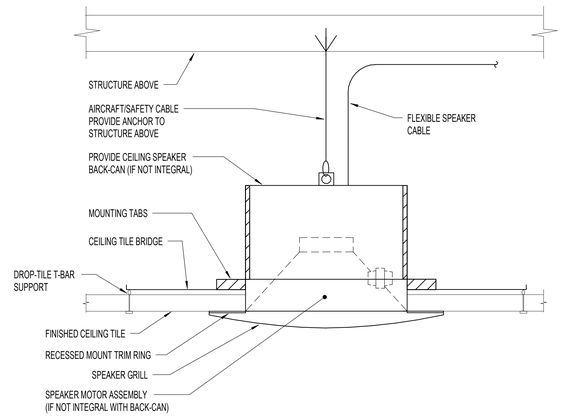
7 DATA PORT CONDUIT DROP

NOT TO SCALE



4 FOUR PORT FACEPLATE DETAIL

NOT TO SCALE

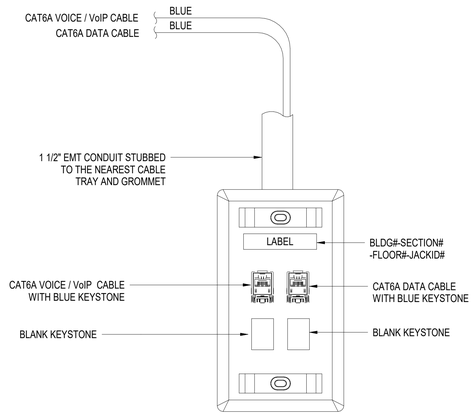


2 CEILING PUBLIC ADDRESS SYSTEM SPEAKER DETAIL

NOT TO SCALE

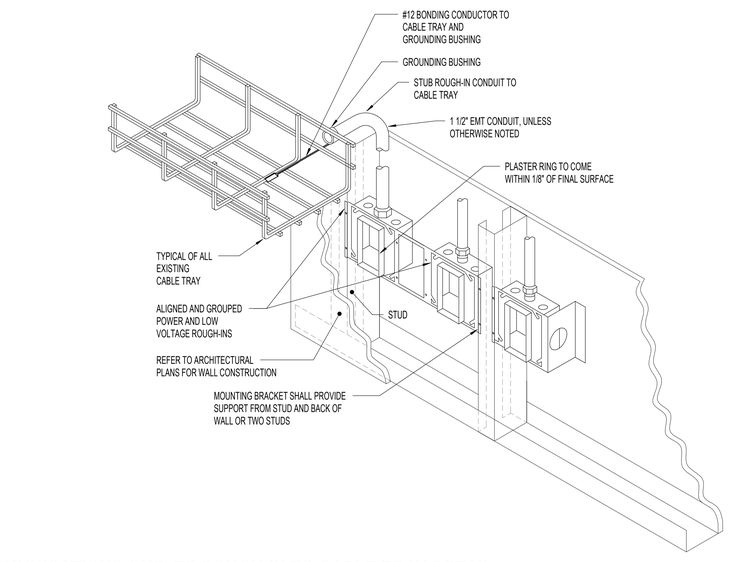
NOTES:

1. WHERE SUPPORTS ATTACH TO METAL ROOF DECKING, EXCLUDING CONCRETE ON METAL DECKING, DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDE ELECTRICAL AND MECHANICAL ITEMS HANGING FORM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, THE ADDITION OF SUPPLEMENTAL FRAMING OFF STEEL FRAMING WILL BE REQUIRED.



5 TWO PORT FACEPLATE DETAIL

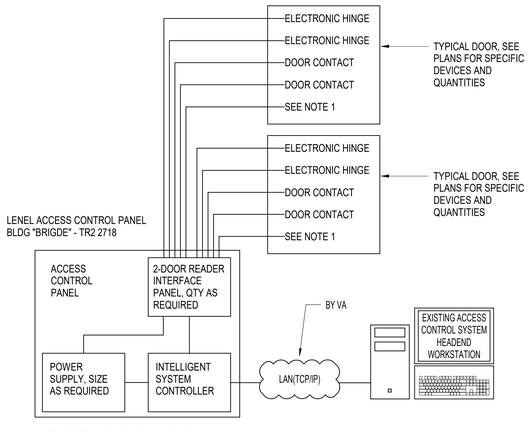
NOT TO SCALE



1 COMMUNICATIONS OUTLET ROUGH-IN TO CABLE TRAY DETAIL

NOT TO SCALE

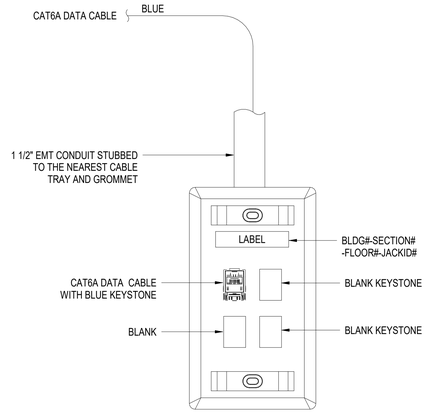
1. THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS. SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
3. METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL.
4. MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
5. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.
6. TERMINATE CONDUIT STUB ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
7. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY IN THE ROOM.
8. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
9. FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.



ACCESS CONTROL SYSTEM NOTES:
RISER IS INTENDED TO SHOW GENERAL CONFIGURATION AND CONNECTIONS. VERIFY DEVICE QUANTITIES FROM FLOOR PLANS AND PROVIDE AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. ALL CABLING SHALL BE IN CONDUIT DEDICATED FOR THE ACCESS CONTROL SYSTEM. MINIMUM SIZE CONDUIT IS 1". VERIFY ALL CABLING TYPES AND QUANTITIES WITH MANUFACTURER AS PROVIDED AS REQUIRED.

3 TYPICAL ACCESS CONTROL SYSTEM RISER DIAGRAM

NOT TO SCALE



6 SINGLE PORT FACEPLATE DETAIL

NOT TO SCALE

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BICSI Chris Carter BICSI ID # 136883 Expires 12-31-27 REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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