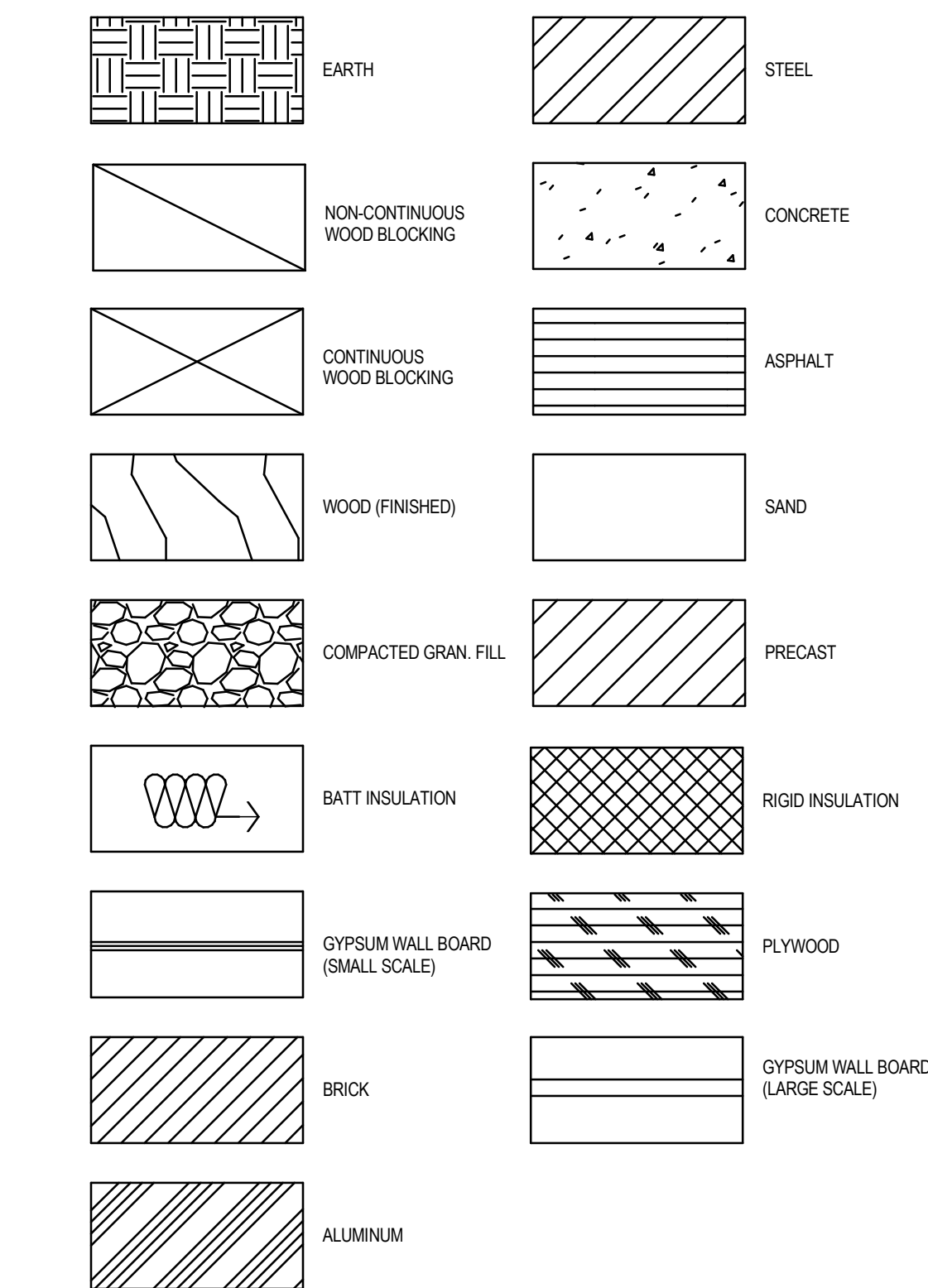
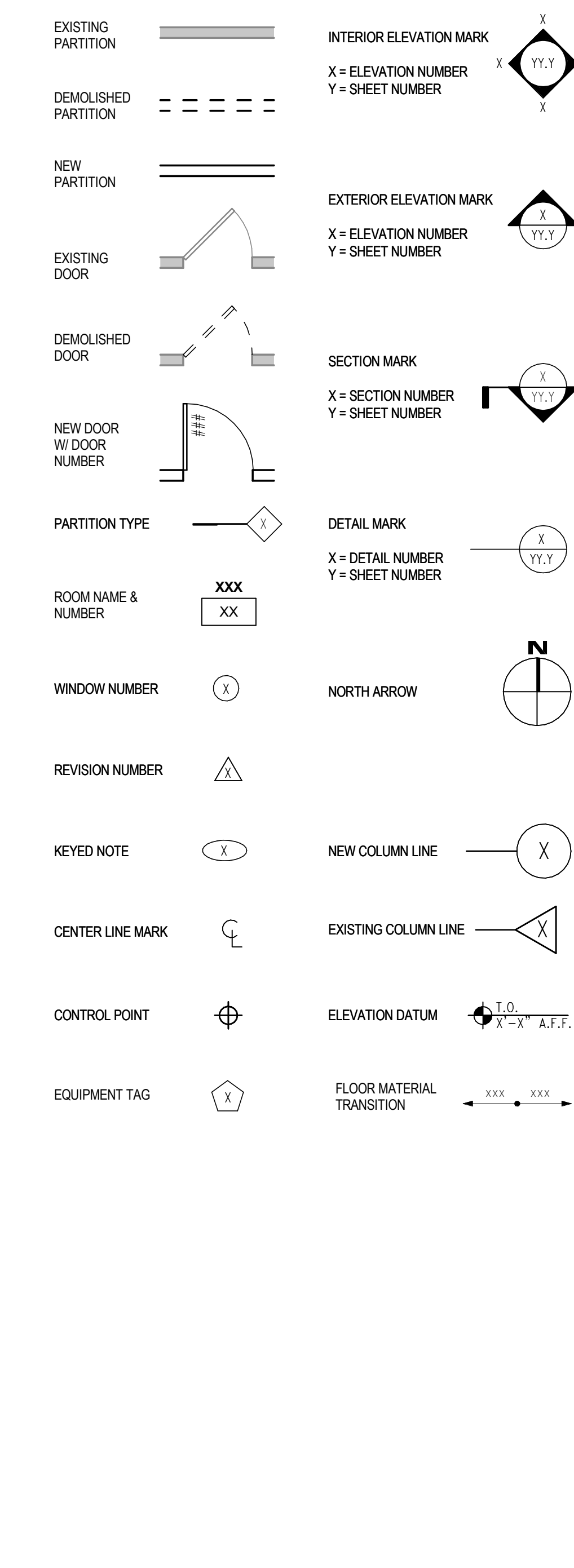


MATERIALS INDICATION

HATCH INDICATIONS SHOWN AS GUIDE ONLY. HATCHING SCALES MAY NEED TO BE MODIFIED DEPENDING UPON SCALE USED



LEGEND - SYMBOLS



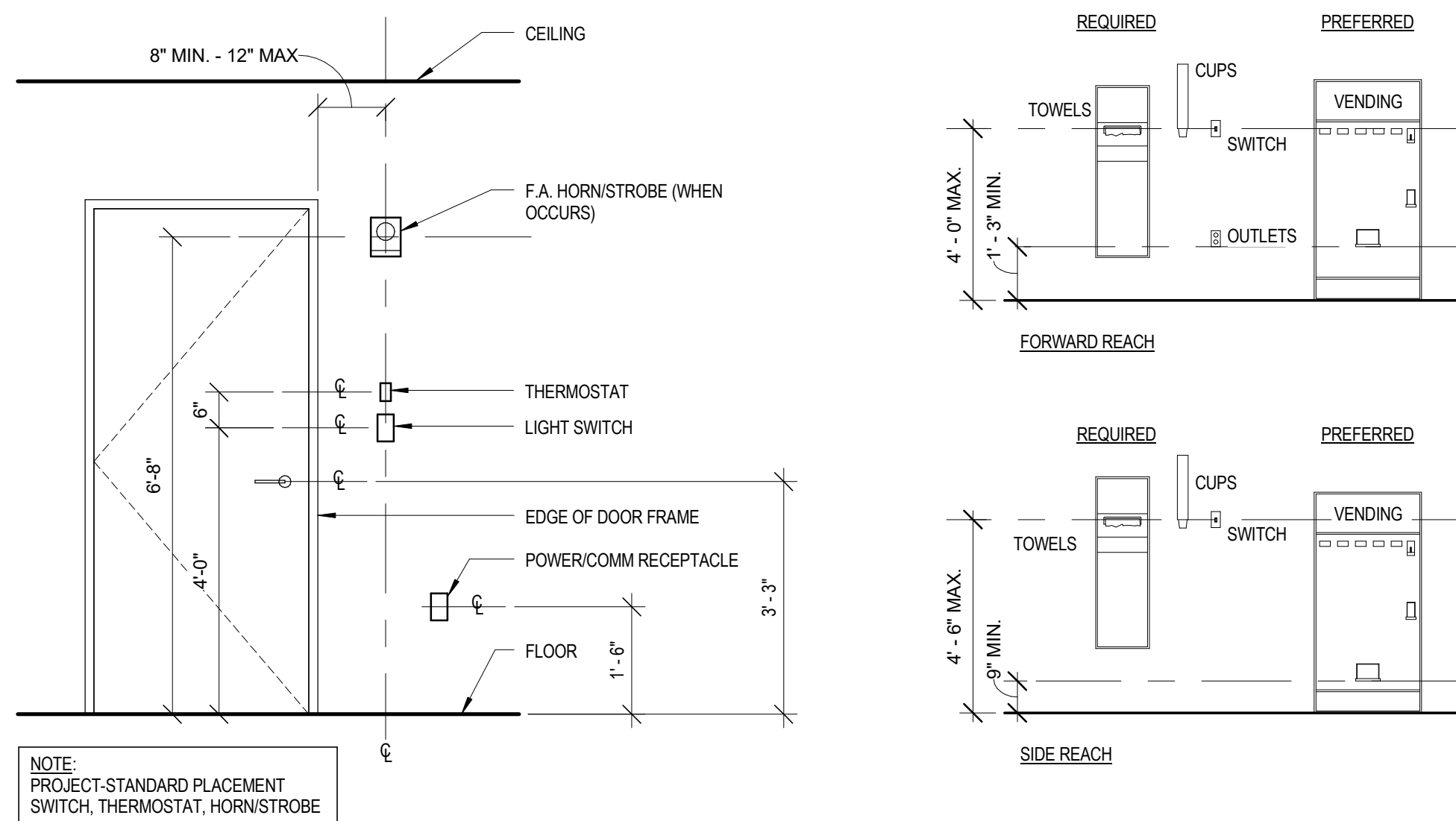
ABBREVIATIONS LIST

REFER TO THE MATERIAL LEGEND FOR ABBREVIATIONS RELATED TO FINISHES NOT HERE LISTED

ACT	ACOUSTIC CEILING TILE	KB	KNEE BRACE
ADJ	ADJUSTABLE	LAV	LAVATORY
ADJC	ADJACENT	LF	LINEAR FEET
ALT	ALTERNATE	LNTL	LINTEL
ALUM	ALUMINUM	MAS	MASONRY
ARCH	ARCHITECTURAL	MAT	MATERIAL
AVG	AVERAGE	MAX	MAXIMUM
BD	BOARD	MDF	MEDIUM DENSITY FIBERBOARD
BL	BLINDS	MECH	MECHANICAL
BLDG	BUILDING	MFR	MANUFACTURER
BKLG	BLOCKING	MH	MANHOLE
BOD	BOTTOM OF DECK	MIN	MINIMUM
BR	BRICK	MIR	MIRROR
BTWN	BETWEEN	MISC	MISCELLANEOUS
C	CARPET	MO	MASONRY OPENING
CB	CATCH BASIN	MTD	MOUNTED
CC	CONCRETE, COLORED	MTL	METAL
CG	CORNER GUARD	NTC	NOT IN CONTRACT
CJ	CONTROL JOINT	NOM	NOMINAL
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OF	OUTSIDE FACE
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONST	CONSTRUCTION	P	PAINT
CONT	CONTINUOUS	PBD	PARTICLE BOARD
CP	COMMUNICATIONS PANEL	PLAM, PL	PLASTIC LAMINATE
CRT	CATHODE RAY TUBE	PLBS	PLUMBING
CS	CONSTRUCTION JOINT	PLS	PLASTIC
CS	CONCRETE, SEALED	PR	PAIR
CST	CONCRETE, STAINED	PROP	PROPERTY
CST	CERAMIC TILE	PT	PRESSURE TREATED
DEMO	DEMOLITION	PTD	PAINTED
DIA	DIAMETER	PTN	PARTITION
DIM	DIMENSION	PWD	PLYWOOD
DN	DOWN	R	RISER OR RADIUS
DR	DOOR	RB	RUBBER BASE
DTS	DOWNSPOUT	RD	ROOF DRAIN
DTL	DETAIL	REF	REFERENCE
DWG	DRAWING	REIN	REINFORCED
EA	EACH	REQD	REQUIRED
EJ	EXPANSION JOINT	REV	REVISION
ELECT	ELECTRICAL	RGL	RAILINGS
EP	ELEVATION	RM	ROOM
EQ	ELECTRICAL PANEL	ROUGH	ROUGH OPENING
EQU	EQUAL	SC	SOLID CORE
EWC	ELECTRIC WATER COOLER	SCH	SCHEDULE
EXT	EXTERIOR	SECT	SECTION
EXTG	EXISTING	SETH	SHEATHING
FAB	FABRICATED	SIM	SIMILAR
FCU	FAN COIL UNIT	SK	SINK
FD	FLOOR DRAIN	SM	SHEET METAL
FDN	FOUNDATION	SOF	SOFFIT
FEC	FIRE EXTINGUISHER CABINET	SPEC	SPECIFICATIONS
FF	FINISH FLOOR	SO	SQUARE
FG	FINISH GRADE	SSM	SOLID SURFACING MATERIAL
FLC	FIRE HOSE CABINET	SST	STAINLESS STEEL
FIN	FINISH	STD	STANDARD
FLR	FLOOR	STL	STEEL
FLG	FLASHING	STR	STRUCTURE
FLT	FLOOR TILE	SUSP	SUSPENDED
FLT	FIREPROOFING	SW	SLAT WALL
FR	FIRE RATING	SYS	SYSTEM
FRP	FIBERGLASS REINFORCED PANEL	T	TREAD
FSK	FLOOR SINK	TC	TOP OF CONCRETE
FT	FEEL	TEL	TELEPHONE
FTG	FOOTING	TGL	TEMPERED GLASS LITE
FTWD	FIRE TREATED WOOD	TJ	TOP OF JOIST
FWP	FABRIC WRAPPED PANEL	TS	TOP OF STEEL
G	GRANITE	TW	TOP OF WALL
GA	GAUGE	TY	TYPICAL
GL	GLASS	UF	UNFINISHED
GR	GRADE	UN	UNLESS OTHERWISE NOTED
GT	GROUT	UR	URINAL
GWB	GYPSUM WALLBOARD	VB	VINYL BASE
HC	HOLLOW CORE	VCT	VINYL COMPOSITION TILE
HD	HEAD	VERT	VERTICAL
HDDB	HARDBOARD	VIF	VERIFY IN FIELD
HDW	HARDWARE	W	WIDTH
HDWD	HARDWOOD	WCL	WATER CLOSET
HMT	HOLLOW METAL	WD	WOOD
HOR	HORIZONTAL	WDW	WINDOW
HR	HANDRAIL	WF	WIDE FLANGE
HT	HEIGHT	WO	WITHOUT
HW	HOT WATER HEATER	WPG	WATERPROOFING
IF	INSIDE FACE	YD	YARD
INSUL	INSULATION		
JT	JOINT		

GENERAL NOTES

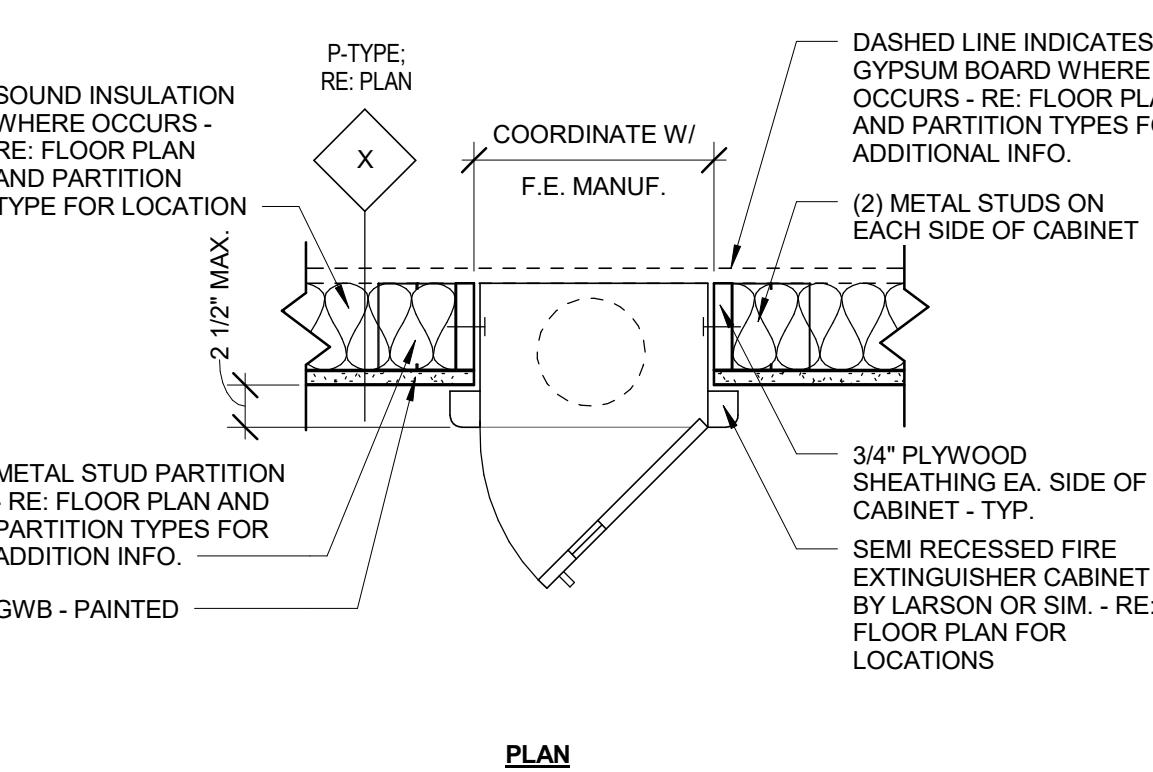
- PHASE ALL DEMOLITION & CONSTRUCTION TO BE SEQUENCED & COORDINATED TO INSURE THAT THE BUILDING OWNER'S OPERATIONS ARE CONTINUOUSLY MAINTAINED.
- THESE PLANS REFLECT INFORMATION GATHERED FROM EXISTING CONDITIONS DRAWINGS & ARCHITECT'S FIELD VERIFICATION. CONTRACTOR SHALL VERIFY ACCURACY OF INFORMATION PRIOR TO COMMENCEMENT OF ANY DEMOLITION AND/OR CONSTRUCTION ACTIVITIES AND REPORT ANY DISCREPANCIES TO COR.
- ITEMS TO BE DEMOLISHED, REMOVED, OR RELOCATED ARE SHOWN DASHED. EXISTING ITEMS TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION BY CONTRACTOR. PATCH & REPAIR ALL RESULTING SURFACES TO REMAIN.
- COORDINATE ALL WORK BETWEEN TRADES AS REQUIRED TO INSURE TIMELY & PROPER INSTALLATION OF ALL BUILDING SYSTEMS.
- ACCESS TO EMPLOYEE ENTRY AND EXIT DOORS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. PROVIDE ALL VA REQUIRED BARRIERS AND SIGNAGE AT THE LIMITS OF THE CONSTRUCTION SITE.
- PROVIDE FULLY SEALED DUST PARTITIONS AS REQUIRED AT ALL LOCATIONS WHERE CONSTRUCTION MEETS THE EXISTING BUILDING IN ORDER TO MAINTAIN A CLEAN DUST-FREE ENVIRONMENT INSIDE THE BUILDING.
- ALL GYPSUM BOARD USED IN THIS PROJECT SHALL BE TYPE "X".
- CONTRACTORS SHALL VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND INCLUDE THE WORK NECESSARY TO COMPLY WITH THE SCOPE OF THE WORK. ADDITIONAL COMPENSATION WILL NOT BE CONSIDERED FOR EXTRA WORK WHEN SUCH WORK COULD HAVE BEEN REASONABLY ASCERTAINED FROM THE PRE BID SITE VISIT REVIEW OF THE EXISTING CONDITIONS AND THE WORK SCOPE DESCRIBED IN THE DOCUMENTS.
- COORDINATION OF ALL WORK AS DESCRIBED ON THE DOCUMENTS IS THE GENERAL CONTRACTOR'S RESPONSIBILITY.
- PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES HAVING JURISDICTION.
- IMMEDIATELY REPORT DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND FIELD CONDITIONS. CONFIRM THE WORK IS BUILDABLE AS SHOWN.
- ALL DIMENSIONS ARE FROM COLUMN CENTER LINE TO FACE OF PARTITION U.O.N. UNDER NO CIRCUMSTANCES SHALL ANY MEASUREMENT BE SCALED FROM THE DRAWINGS. ANY MEASUREMENT NOT GIVEN AN ACTUAL NUMBER DIMENSION SHOULD BE BROUGHT TO THE ATTENTION OF THE CORARCHITECT BEFORE PROCEEDING.
- ALL WOOD USED IN THIS PROJECT SHALL BE FIRE-RETARDANT TREATED.
- ALL NEW PARTITIONS, UNLESS OTHERWISE SHOWN, SHALL BE 20 GA. MTL STUDS.
- COORDINATE & PROVIDE BLOCKING AS REQUIRED FOR MILLWORK & ITEMS ATTACHED OR MOUNTED TO WALLS & CEILINGS.
- ALL INSULATING MATERIALS WITHIN WALLS & IN UNCONCEALED SPACES SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450.
- ALL MATERIALS EXPOSED WITHIN PLenums ARE REQUIRED TO BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E-84.
- PROJECT LIMIT LINES INDICATE THE AREA OF A MAJORITY OF THE PROJECT WORK. BUT SOME WORK WILL BE REQUIRED OUTSIDE OF THE PROJECT LIMITS. REFER TO DRAWINGS AND SPECIFICATIONS FOR INFORMATION.
- CONSTRUCTION MATERIALS AND INSTALLATION METHODS PROVIDED AND PERFORMED BY ALL CONTRACTORS SHALL BE IN COMPLIANCE WITH VAMC FACILITY OPERATIONS, NFPA, ICRA, LSMA, VA SPECIFICATIONS, AND AS FURTHER DESCRIBED IN THIS SCOPE.
- PAINT ALL EXPOSED NEW AND EXISTING PIPING, CONDUIT, WIRE MOLD, ELECTRICAL PANELS, ACCESS PANELS, ETC., TO MATCH WALL FINISH UNLESS OTHERWISE NOTED.
- THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) WILL PERFORM FIELD VERIFICATION AS REQUIRED FOR THE DURATION OF THE PROJECT TO MONITOR PROJECT PROGRESS.
- UTILITY SHUT DOWNS WILL BE COORDINATED BY IPT (INTEGRATED PROJECT TEAM) INCLUDING: COR, VA FACILITY OPERATIONS, AND GENERAL CONTRACTOR.
- ANY INTEGRATED PROJECT TEAM MEMBER (IPT), INCLUDING BUT NOT LIMITED TO: CONTRACTORS / SUB-CONTRACTORS, ARCHITECTS AND/OR ENGINEERS WHO ENTER THE PROJECT BOUNDARY SHALL WEAR ALL PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE'S: CERTIFIED BY OSHA) AT ALL TIMES. SUCH PPE'S INCLUDE: HARD HATS, SAFETY GLASSES, ETC.
- IF THE PROJECT AREA AND AREAS AFFECTED BY THE PROJECT INCLUDE EXISTING EQUIPMENT, SURFACES, FINISHES, MATERIALS, ETC., NOT TO BE REMOVED, THE CONTRACTOR MUST PROTECT THIS EQUIPMENT FROM DUST, DEBRIS, DAMAGE, ETC. THE CONTRACTOR MUST ALSO CLEAN THESE ITEMS/SURFACES TO THE ORIGINAL CONDITION FOUND AT THE START OF THE PROJECT PRIOR TO FINAL INSPECTION. CONTRACTOR IS RESPONSIBLE TO REPAIR/REPLACE ANY DAMAGED EQUIPMENT, ITEMS, ETC.
- PATCH ALL FINISHES WHERE DISTURBED BY THE WORK AND WHERE UNFINISHED SURFACES HAVE BEEN EXPOSED BY DEMOLITION. PATCHING MUST MATCH ADJACENT MATERIALS, COLORS, AND FINISHES. WALL SURFACES THAT ARE PATCHED SHALL HAVE THE FINISHES (PAINT, VINYL, WALL COVERING, ETC.) REPLACED FROM CORNER TO CORNER AND FLOOR TO CEILING.
- UNLESS OTHERWISE INDICATED, FINISH ALL NEW FRAMES AND PARTITIONS TO MATCH SURROUNDING. NEW HOLLOW METAL DOORS SHALL BE PAINTED SAME COLOR AS FRAMES. EXISTING PARTITIONS RECEIVING NEW DOOR FRAMES THAT HAVE VINYL WALL COVERING (VWC) SHALL HAVE THE VWC COMPLETELY REMOVED AND REPLACED WITH NEW VWC OF MATCHING TEXTURE AND COLOR.
- CORRIDOR WALLS AND PLUMBING PARTITIONS SHALL BE CONSIDERED 1 HOUR FIRE / SMOKE RATED WALLS AND NEW OR EXISTING PENETRATIONS MUST BE SEALED ACCORDINGLY WITH UL APPROVED FIRE STOPPING MATERIAL. THE SAME DAY THE PENETRATION IS MADE OR DISCOVERED. ALL FLOOR SLABS, VERTICAL SHAFTS AND STAIRWELLS SHALL BE CONSIDERED 2 HOUR FIRE / SMOKE RATED SEPARATIONS AND SHALL BE SEALED ACCORDINGLY IN THE MANNER LISTED HEREIN. PENETRATIONS THROUGH THE EXTERIOR WALLS SHALL BE SEALED WATERTIGHT.
- IF EXISTING WALLS ARE TO BE USED AS DUST OR SMOKE BARRIERS SEPARATING THE CONSTRUCTION AREA FROM THE MEDICAL CENTER, THE CONTRACTOR IS RESPONSIBLE FOR SEALING ALL EXISTING PENETRATIONS IN THIS WALL, EXTENDING WALL TO CEILING SLAB AND ANY OTHER WORK TO ENSURE THE WALL MEETS THE REQUIREMENTS IN THE GENERAL REQUIREMENTS SPECIFICATIONS FOR CONSTRUCTION BARRIERS.
- WHENEVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC. UNLESS NOTED OTHERWISE, AFTER REMOVAL, FLOORS, WALLS, AND CEILINGS SHALL BE FINISHED TO MATCH ADJOINING SURFACES.
- UTILITY WORK THAT WILL REQUIRE A SHUTDOWN OF EXISTING SERVICE WILL BE DONE AT TIMES OTHER THAN NORMAL WORKING HOURS AT NO ADDITIONAL COST TO THE GOVERNMENT. WORK MUST BE SCHEDULED WITH THE COR 72 HOURS IN ADVANCE OF SHUTDOWN.
- ALL NEW VERTICAL AND HORIZONTAL DUCTS, PIPES, CONDUITS, ETC., IN FINISHED ROOMS OR AREAS THROUGHOUT BUILDING, NOT ENCASED IN MASONRY OR CONCRETE CONSTRUCTION, SHALL BE ENCLOSED IN METAL STUDS AND DRYWALL CHASE WALLS AS DETAILED IN THE DRAWINGS AND FINISHED TO MATCH THE ROOM FINISH.
- WORK THAT MUST OCCUR IN OCCUPIED AREAS OF THE MEDICAL CENTER OR DISRUPT A MEDICAL CENTER FUNCTION, WILL BE DONE AT TIMES OTHER THAN NORMAL WORKING HOURS AT NO ADDITIONAL COST TO THE GOVERNMENT. WORK MUST BE SCHEDULED WITH THE VA COR 72 HOURS IN ADVANCE OF WORK TO TAKE PLACE.
- CONTRACTOR SHALL NOT INSTALL CONDUIT, PIPING, LIGHTING, OR OTHER OBSTRUCTIONS UNDER ADJACENT HVAC EQUIPMENT THAT WILL ELIMINATE OR OBSTRUCT ACCESS TO COILS, MOTORS, VALVES, SWITCHES, PANELS, ETC.
- BEFORE THE CONTRACTOR BEGINS WORK, CONTRACTOR SHALL RECORD ANY EXISTING SYSTEM INFORMATION SUCH AS TEMPERATURE, FLOW RATE, PRESSURE, CURRENT, VOLTAGE, OR ANY OTHER INFORMATION NECESSARY FOR HIM TO RETURN THE AFFECTED SYSTEM TO ORIGINAL OPERATING CONDITION. UNLESS NOTED OTHERWISE IT IS ASSUMED THAT ALL SYSTEMS (HVAC, ELECTRICAL, PLUMBING, ETC.) ARE WORKING PROPERLY IN EVERY MANNER AT THE BEGINNING OF THE PROJECT. THE CONTRACTOR'S RECORDING MEASUREMENTS MUST BE SUBMITTED TO THE COR FOR REVIEW AND ACCEPTANCE BEFORE ANY DEMOLITION OR OTHER RELATED WORK CAN PROCEED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING ACCESS DOORS TO CONSTRUCTION AREAS, EXISTING MECHANICAL, AND ELECTRICAL AREAS, ASSIGNED STORAGE AREAS, EQUIPMENT ACCESS AREAS, ETC. DOORS MUST BE RESTORED TO THE CONDITION ENCOUNTERED AT BEGINNING OF PROJECT. THIS INCLUDES DOOR REPLACEMENT, HARDWARE REPLACEMENT, HARDWARE REPAIR, DOOR REPAIR, ETC.
- CONTRACTOR MUST PROVIDE HIS OWN EQUIPMENT FOR MOVING OF MATERIALS, EQUIPMENT AND TRASH. THIS INCLUDES CARTS FOR REMOVAL OF DEMOLITION MATERIALS, PALLET JACKS FOR EQUIPMENT MOVING, TWO OR FOUR WHEEL CARTS FOR EQUIPMENT TRANSFER, ETC. CONTRACTOR MAY NOT BORROW VA OWNED EQUIPMENT FOR THIS PURPOSE.
- SEVERE NOISE PRODUCING WORK WILL NOT BE ALLOWED DURING NORMAL WORKING HOURS AND MUST BE SCHEDULED WITH THE COR FOR OTHER TIMES 72 HOURS IN ADVANCE OF WORK TAKING PLACE. THIS INCLUDES JACK-HAMMERING CONCRETE, SAW-CUTTING CONCRETE, REPETITIVE HAMMER DRILLING OF CONCRETE, ETC.
- THE VA DOES NOT PROVIDE PHONES FOR THE CONTRACTOR'S USE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COVER THE COSTS OF A CELLULAR PHONE TO BE HELD BY THE SUPERINTENDENT THROUGHOUT THE PROJECT. PROVIDE DIRECT PHONE NUMBER TO COR BEFORE THE START OF THE PROJECT.
- ALL ELECTRICAL CIRCUITRY TO BE CONCEALED UNLESS OTHERWISE SPECIFIED. CIRCUITING FOR ELECTRIC DOOR HOLD OPENS IN MASONRY WALLS SHALL BE SURFACE RACEWAY.
- DRAWINGS ARE DIAGRAMMATIC AND SHOW ONLY THE GENERAL ARRANGEMENT OF EACH SYSTEM BECAUSE OF SMALL SCALE OF DRAWINGS IT IS NOT POSSIBLE TO SHOW OR INDICATE ALL BRANCHES, OFFSETS, FITTINGS, BOXES, AND ACCESSORIES WHICH MAY BE REQUIRED. CONTRACTOR MUST CAREFULLY INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL WORK, FURNISHING SUCH FITTINGS, TRAPS, VALVES, BOXES, ACCESSORIES, ETC., AS MAY BE REQUIRED.
- LOCATIONS OF NEW EQUIPMENT, PIPING, AND ASSOCIATED ITEMS SHOWN ON THE DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ELEVATION FOR ALL WORK, INCLUDING CONNECTIONS TO EXISTING WORK. ALL OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC., REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM SHALL BE PROVIDED AT NO ADDITIONAL COST.
- ALL EXISTING DUCTWORK, ELECTRICAL OR MECHANICAL PIPING, CABLE TRAYS, ETC., ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. PRIOR TO ANY DEMOLITION AND CONSTRUCTION WORK, THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. AND REPORT ANY DISCREPANCIES TO THE COR.
- IF THERE IS ANY WORK TO BE DONE ON EXISTING ROOFS, SUCH AS ROOF PENETRATIONS OR STANDS, OR ANYTHING THAT DAMAGES THE INTEGRITY OF THE ROOF, THIS WORK MUST BE DONE BY A CONTRACTOR LICENSED BY THE ROOFING MEMBRANE MANUFACTURER. HESHE MUST BE APPROVED BY THE MEMBRANE MANUFACTURER SO AS TO NOT VOID OR INTERRUPT EXISTING SINGLE PLY MEMBRANE ROOF WARRANTIES.
- IF ASBESTOS INSULATION IS REMOVED ON THIS PROJECT ALL PIPING AND OTHER MECHANICAL ITEMS THAT HAD THE ASBESTOS INSULATION REMOVED MUST BE RE-INSULATED WITH MATERIALS ACCORDING TO THE SPECIFICATIONS.
- WHEN WORKING IN OCCUPIED AREAS OF THE MEDICAL CENTER THE CONTRACTOR CANNOT LEAVE TOOLS, EQUIPMENT, LADDERS, ETC., UNATTENDED WHERE THEY ARE ACCESSIBLE TO PATIENTS, STAFF, VISITORS, ETC. CEILING TILES AND CEILING ACCESS PANELS MUST ALSO BE REPLACED WHEN UNATTENDED, FOR SAFETY REASONS.
- WATER OR LIQUIDS MUST NOT BE ALLOWED TO COME INTO CONTACT WITH NEW OR EXISTING DRYWALL FROM CONSTRUCTION RELATED ACTIVITIES. REMOVE AND REPLACE ANY DRYWALL THAT HAS COME INTO CONTACT WITH WATER OR OTHER LIQUIDS.
- LIVE ELECTRICAL CIRCUITS ARE BURIED WITHIN THE CONCRETE FLOOR SLABS AND THERE IS NO RECORD OF THE EXACT LOCATIONS. THE CONTRACTOR SHALL MARK THE FLOOR WHEREVER THE CONTRACTOR PLANS ON DRILLING THROUGH THE CONCRETE FLOOR SLAB. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY REPAIR ANY CIRCUIT THAT HAS BEEN CUT OR DAMAGED.
- WHEN AN EXIT IS CLOSED BECAUSE OF THIS PROJECT THE CONTRACTOR MUST INSTALL BARRICADES AND SIGNAGE AT THE EXIT DOOR. THE CONTRACTOR MUST ALSO COVER OR REMOVE THE LIGHTED EXIT SIGN.
- CONTRACTOR SHALL PROVIDE BOXES, CONDUIT, WIRE, AND RECONNECTIONS AS REQUIRED TO RECONNECT ANY AND ALL EXISTING LIGHT FIXTURES, RECEPTACLES, OR DEVICES REMAINING IN USE. REMOVAL OF ANY ELECTRICAL EQUIPMENT SHALL NOT AFFECT THE OPERATION OF EQUIPMENT REMAINING IN USE.
- CONTINUITY OF ALL SERVICES TO AND FROM THE FACILITIES IN THE EXISTING BUILDING SHALL BE MAINTAINED WITHOUT INTERRUPTION, EXCEPT FOR SUCH PERIODS OF TIME WHICH THE V.A. MAY DESIGNATE. IF TEMPORARY CONNECTIONS, ETC. ARE NECESSARY TO ASSURE THE CONTINUITY OF SERVICE, THEY SHALL BE FURNISHED WITHOUT ADDITIONAL CHARGE TO THE V.A. AND SHALL BE REMOVED WHEN NO LONGER NECESSARY.
- ALL EXISTING CONDUIT AND WIRING MADE ABANDONED BY THIS PROJECT OR FOUND TO BE ABANDONED DURING DEMOLITION SHALL BE REMOVED BACK TO PANEL, BOARD, OR SWITCH.
- COORDINATE THE PROVISION AND INSTALLATION OF ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT WITH THE GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR.
- FOR SAFETY PURPOSES THE CONTRACTOR WILL NOT WORK ON ANY ELECTRICAL EQUIPMENT HOT. ALL SHUTDOWNS WILL BE SCHEDULED IN ADVANCE WITH THE COR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS IN WALLS SHALL BE GROUDED OR SEALED INTO OPENINGS.
- CONTRACTOR SHALL COORDINATE IN-WALL & OVERHEAD CEILING INSPECTIONS WITH COR PRIOR TO THE INSTALLATION OF FINISHES. IN-WALL INSPECTIONS REQUIRE 24 HOUR NOTIFICATION. OVERHEAD CEILING INSPECTIONS REQUIRE 48 HOUR NOTIFICATION. CONTRACTOR TO SUPPLY A CART WITH A LOG SHEET AND FULL SET OF HARD COPY DRAWINGS FOR ALL INSPECTIONS. LOG SHEET SHALL BE ITEMIZED BY TYPE OF INSPECTION AND BY ROOM. NO SUCH FINISHES SHALL BE INSTALLED WITHOUT INSPECTION APPROVAL FROM COR.
- ALL CONTRACTOR PERSONNEL ARE REQUIRED TO OBTAIN COR ISSUED BADGE TO BE WORN AT ALL TIMES WHILE ON VA PROPERTY. PRIOR TO THE BADGE BEING ISSUED, CONTRACTOR PERSONNEL ARE REQUIRED TO ATTEND SAFETY AND PROTOCOL TRAINING ADMINISTERED BY THE COR AND FACILITY SAFETY OFFICER.



1 Typical Mounting Heights
1/2" = 1'-0"

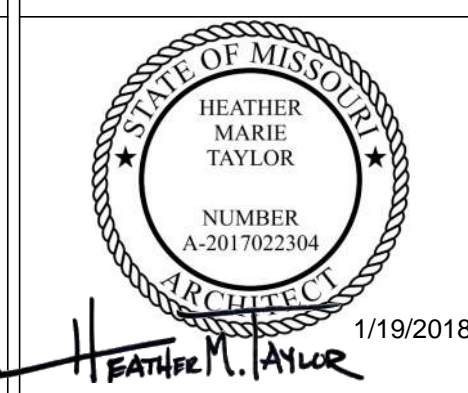
2 Typical Control Reach Limitations
1/4" = 1'-0"

3 Detail - Recessed Fire Extinguisher Cabinet
1 1/2" = 1'-0"



Revisions:	Date

CONSULTANTS:



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Drawing Title
General Information

Project Title
Renovate Vacated Surgery, Ward 6

Location
800 Hospital Drive
Columbia, MO 65201

Date
01/19/2018

Checked
BD/HT

Drawn
ZF

Project Number
589A4-16-102

Building Number
01

Drawing Number
2-G0.1

Office of
Facilities
Management



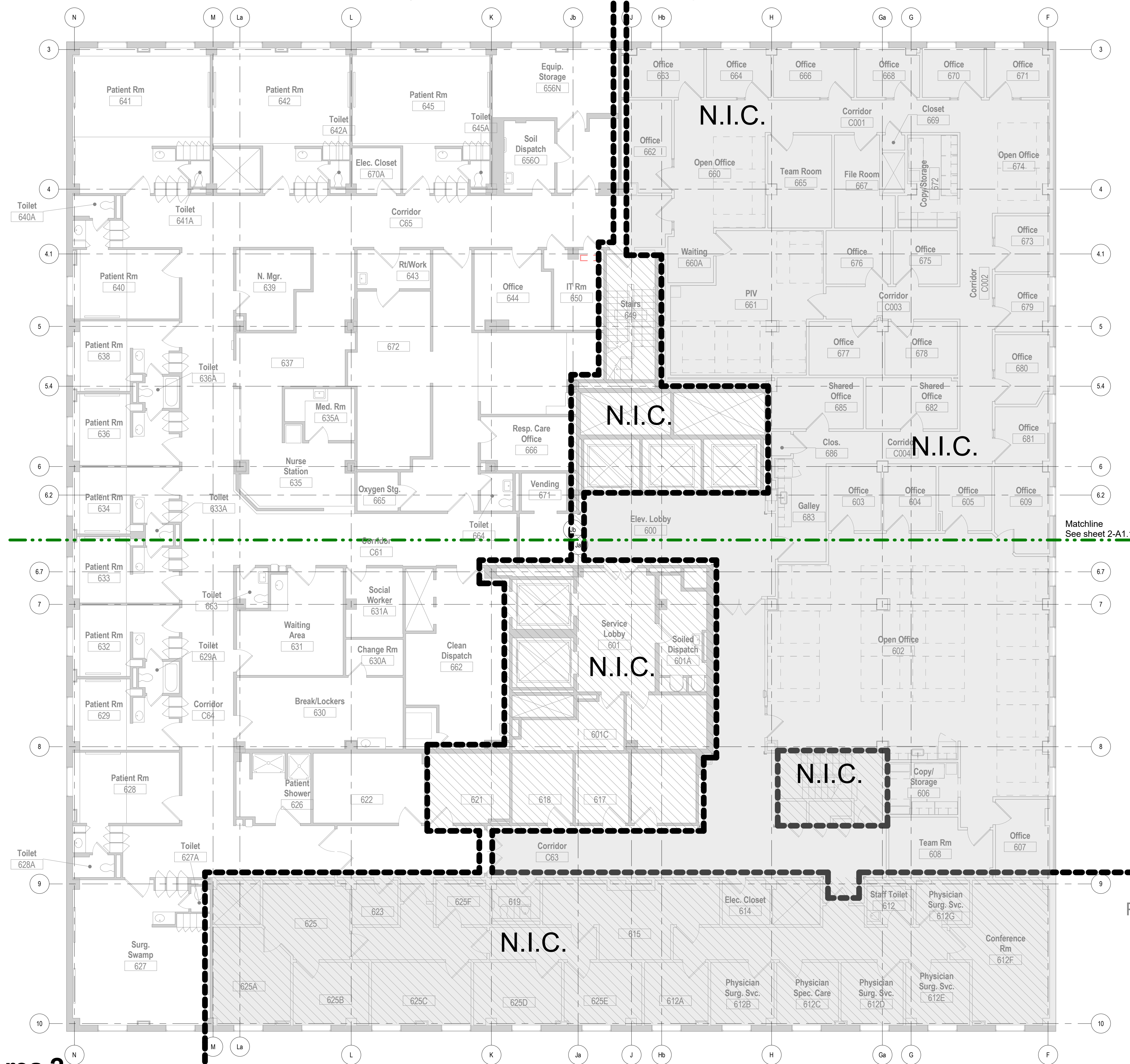
BID DOCUMENTS

Area 2

Renovate Vacated Surgery
Project #: 589A4-16-102

Area 1 N.I.C.

Renovate Vacated ICU
Project #: 589A4-16-101



Area 1 N.I.C.

Renovate Vacated ICU
Project #: 589A4-16-101

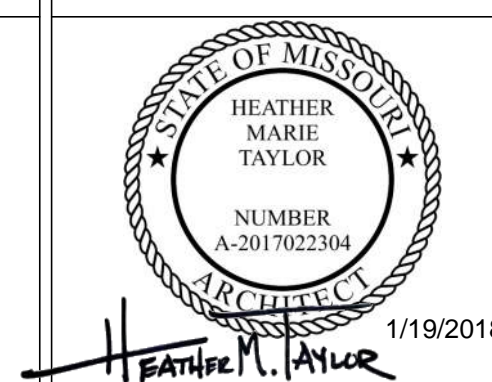
Area 2

Renovate Vacated Surgery
Project #: 589A4-16-102

1 Overall Existing 6th Floor Plan
1/8" = 1'-0"

Revisions:	Date

CONSULTANTS:



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Drawing Title
Overall Existing 6th Floor Plan

Project Title
Renovate Vacated
Surgery, Ward 6

Location
800 Hospital Drive
Columbia, MO 65201

Date
01/19/2018

Checked
BD/HT

Drawn
ZF

Project Number
589A4-16-102

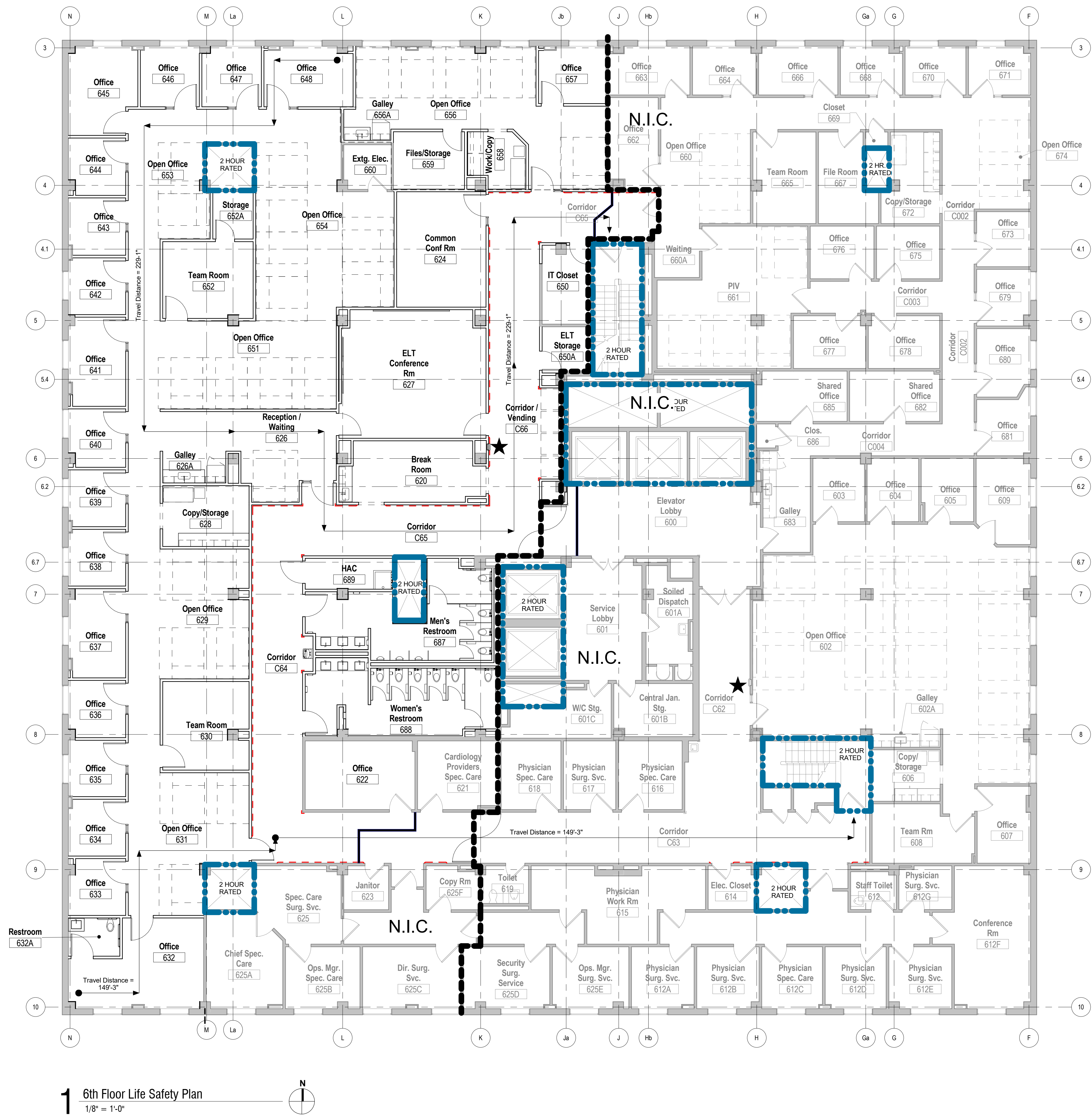
Building Number
01

Drawing Number
2-G0.2

Office of
Facilities
Management



BID DOCUMENTS



Code Summary:
Project Description:
Interior renovation and exterior penthouse renovation of the remaining 9105 s.f. of the 6th floor of Building #1. The balance of the 6th floor was renovated in a recent project. The previous use of this floor was I-2 - Surgery

Applicable Codes:
BUILDING CODE 2015 International Building Code
FIRE CODE 2015 International Fire Code
PLUMBING CODE 2015 International Plumbing Code
MECHANICAL CODE 2015 International Mechanical Code
ELECTRICAL CODE 2015 National Electric Code
ENERGY 2015 International Energy Conservation Code
LIFE SAFETY 2015 NFPA 101 Life Safety Code
ACCESSIBILITY Americans with Disability Act (ADA) - ICC/ANSI 117.1-2009/2010 VA Seismic Design Requirements H-18-8

Jurisdiction:
Department of Veterans Affairs (VA)
Joint Commission on the Accreditation of Healthcare Organizations (JCAHO)
US Department of Health and Human Services

Building Data:
Facility Address: 800 Hospital Drive, Columbia, MO 65201
Occupancy Classification: Business 'B'

Construction Type: "1B" - Auto-Fire Suppression
Fire Protection: SPRINKLERED

Building Elements:
Type IIB: Existing Construction: Table 601 all building elements are of non-combustible materials
Fire Separation 2 Hour Floor
2 Hour Egress Stairwell
2 Hour Vertical Shafts

Means of Egress - Chapter 10

Occupant Load: (Section 1004)
Area of 6th Floor: 23,400SF
Table 1004.1.1, Maximum Floor Area Allowances per Occupant:
Administrative areas (23,490 s.f. @ 100) = 234 occupants

Fire protection systems (chapter 9)
automatic sprinklerprovided throughout
portable extinguishing provide per international fire code
fire alarm and detection systems (907 provided)

Table 1005.1 - Egress width per occupant served
Other = 0.2 inches per occupant x 235 occupants = 47 (existing exit width = 72')

Table 1016.2 Exit Access Travel Distance:
"B" Occupancy - w/ sprinkler system 300',
Dead End Corridor 50' Max.

Plumbing Fixtures - Chapter 29

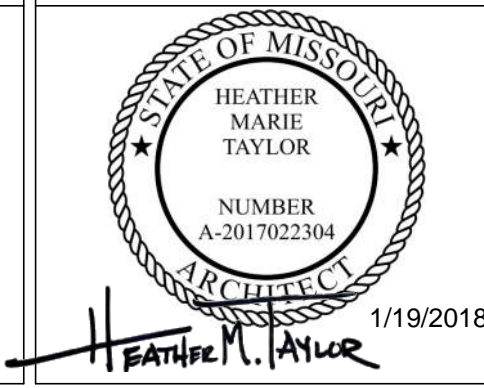
Fixture Counts: (Table 2902.1) (OCC. = 234)
Water Closets (Male) 125 for the first 50; 150 for remainder = 4 (4 provided)
Water Closets (Female) 125 for the first 50; 150 for remainder = 4 (6 provided)
Lavatories (Male) 140 for the first 80; 180 for remainder = 3 (3 provided)
Lavatories (Female) 140 for the first 80; 180 for remainder = 3 (3 provided)
Other 1 Service Sink

Legend - Life Safety Plan

- 2 Hour Fire Rated Partition**
It shall be the contractor's responsibility to inspect and repair fire rated partitions.
- 1 Hour Smoke Compartment Partition**
It shall be the contractor's responsibility to inspect and repair smoke compartment partitions.
- Temporary 1-HR Fire Rated Construction Partition**
extended to deck above
- Semi-Recessed Fire Extinguisher Cabinet:** See Detail 3 / 2-G0.1

Revisions:	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:

FoxArchitects

One Memorial Drive
Suite 1800
Saint Louis, MO 63102
Tel 314.621.4343
Fax 314.621.0261



SSC Engineering, Inc.
18207 Edison Avenue
Overland Park, Missouri 66115
Phone: 816.336.7770 Fax: 816.336.7877
www.sscengineering.com

Drawing Title
6th Floor Life Safety Plan

Project Title
Renovate Vacated Surgery, Ward 6

Location
800 Hospital Drive
Columbia, MO 65201

Date
01/19/2018

Checked
BD/HT

Drawn
ZF

Project Number
589A4-16-102

Building Number
01

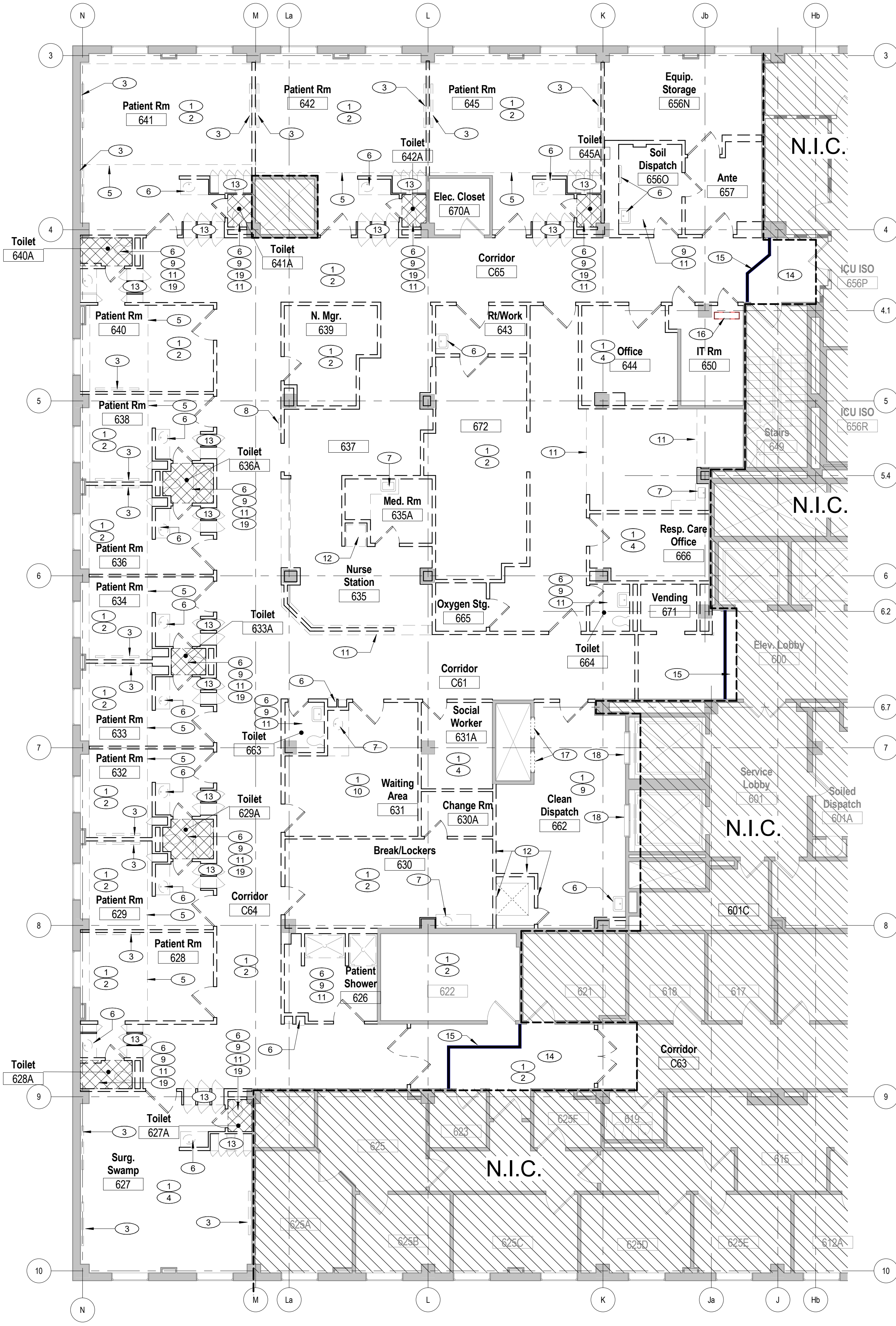
Drawing Number
2-G1.0

Office of
Facilities
Management



BID DOCUMENTS

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



2 6th Floor Demolition Plan - Area 2
1/8" = 1'-0"

Keynote Legend - 6th Floor Demolition Plan

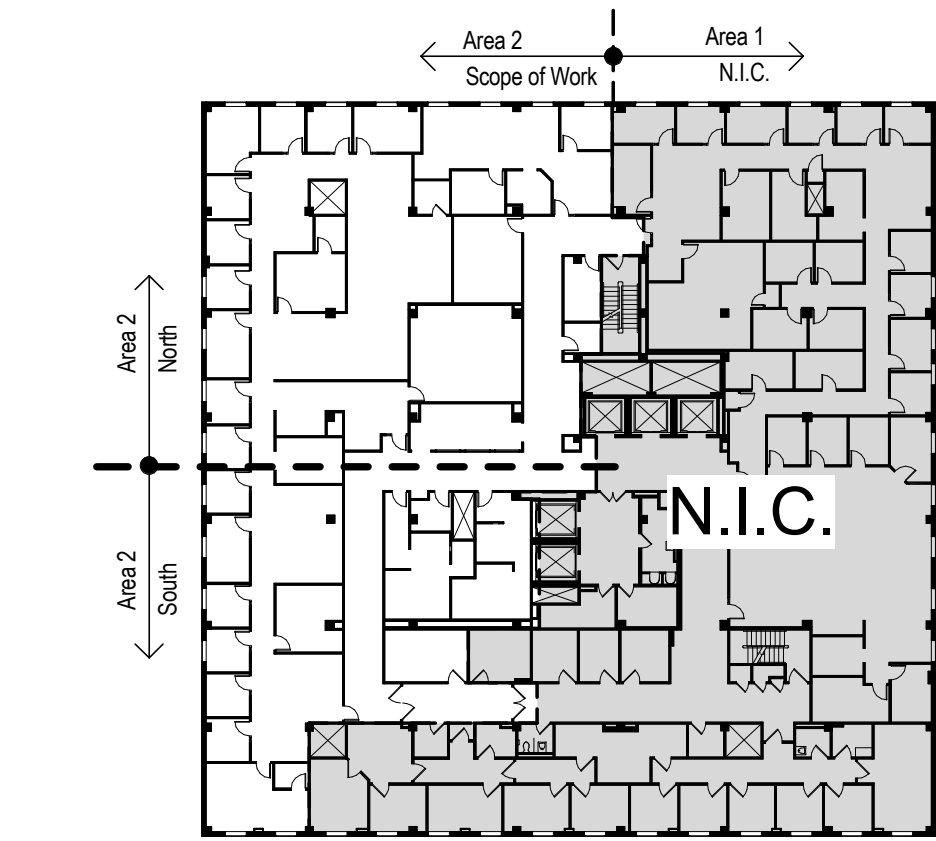
- 1 Demo Existing Acoustical Ceiling Tile System, Light Fixtures, Sprinkler Heads, HVAC Diffusers and Ceiling Mounted Devices Completely. Refer to MEP Drawings For Additional Information.
- 2 Demo Existing Vinyl Composition Tile and Vinyl Base Completely. Prepare Area to Receive New Flooring Finish.
- 3 Remove Existing Medical Gas and Associated Hardware. Cap Services in Wall or Below Floor.
- 4 Demo Existing Carpet Flooring and Base Completely. Prepare Area to Receive New Flooring Finish.
- 5 Dashed Lines Indicate Approximate Layout of Existing Patient Lift Rails. Contractor To Carefully Remove Existing Equipment Rails and Supports and Return to the Owner For Future Use.
- 6 Remove Existing Plumbing Fixture(s) and Associated Hardware Completely. Cap All Services Below Floor. Re: Plumbing Drawings for Additional Information.
- 7 Remove Existing Casework (Upper and Lower). Countertop, Plumbing Fixture and Services Completely. Cap All Services Below Floor.
- 8 Remove Existing Medical Gas Alarm and Control Panel. Cap All Services.
- 9 Demo Existing Ceramic Tile Flooring and Ceramic Base Completely. Prepare Area to Receive New Flooring Finish.
- 10 Demo Existing Sheet Vinyl Flooring and Vinyl Base Completely. Prepare Area to Receive New Flooring Finish.
- 11 Demo Existing Gypsum Board Ceiling System, Light Fixtures, Sprinkler Heads, HVAC Diffusers and Any Ceiling Mounted Devices Completely.
- 12 Demo Existing CMU Wall around existing shaft opening. RE: MEP and Structural Drawings for Additional Demolition Information.
- 13 Remove Existing Lockers
- 14 Coordinate work in this area with COR for after business hours. Area should be clean, tidy and usable before the start of business hours every day.
- 15 Temporary 1-HR Fire Rated Construction Partition. Extend to underside of Deck
- 16 Demo Abandoned Conduit and Concrete Housekeeping Pad. Prepare concrete slab to have a clean, smooth finish
- 17 Demo Existing Dumbwaiter Elevator Door and Frame completely for future infill. Call button to remain but to be deactivated by Elevator Consultant. Coordinate any Elevator shut-down time 72 hours in advance with COR.
- 18 Existing Elevator Door and Frame to Remain. Door to be locked-out. Call button to be deactivated by Elevator Consultant and removed. Coordinate any Elevator shut-down time 72 hours in advance with COR.
- 19 Area of Depressed Slab shown Hatched; Remove Flooring Material and Prepare Floor for Infill.

General Notes - Demolition Plans

- A Demolition and construction must be sequenced and coordinated to ensure that the building owner's operations are continuously maintained.
- B This demolition plan reflects information gathered from existing conditions drawings and architect's field observations. Contractor to verify accuracy of information and include all required demolition in their bid & report any discrepancies to the COR.
- C Items to be demolished, removed, or relocated are shown dashed. Existing items to remain shall be protected during construction by contractor. Patch and repair any surfaces disturbed by demolition that are to remain.
- D Remove all flooring finishes and base unless otherwise noted. Prepare slab and existing walls that are to remain for new finishes.
- E Remove ceiling tile, grids, lights, associated hardware and panels. Refer to RCP Drawings for existing ceiling to remain.
- F Remove all mounted wire mold and receptacles. Pull wire back to electrical panel. RE: Electrical drawings for additional information.
- G Remove all existing phone/data lines back to nearest patch panel. RE: Electrical drawings for additional information.
- H Protect all medical equipment and associated medical items during construction
- I All demolition and construction areas must have ante rooms as required and described in the specifications. Verify exact locations of ante rooms with COR.
- J Remove all ceiling mounted curtain tracks.
- K All work in corridors and elevator lobby (other than containment walls) is to be done on either weekends or after hours.
- L Access to the passenger and freight elevators must be maintained at all times.
- M Severe noise production work will not be allowed during normal working hours and must be scheduled with the COR for other times. This includes jack-hammering concrete, saw-cutting concrete, repetitive hammer drilling, etc.
- N All existing conduit and wiring made abandoned by this project or found to be abandoned during demolition shall be removed back to the panel, board, or switch.
- O All existing pneumatic transportation tubing system throughout work area to be removed above ceilings and floor chases. Coordinate with COR the appropriate location to cap tube system.

Demolition Plan Legend

- Existing Wall to Remain
- Existing Wall to be Demolished
- Existing Door to be Demolished
- Existing Door to Remain
- Temporary 1-HR Fire Rated Construction Partition extended to deck. Shown for reference only. Contractor to coordinate with COR appropriate locations of walls and ante rooms.
- Area Not In Contract

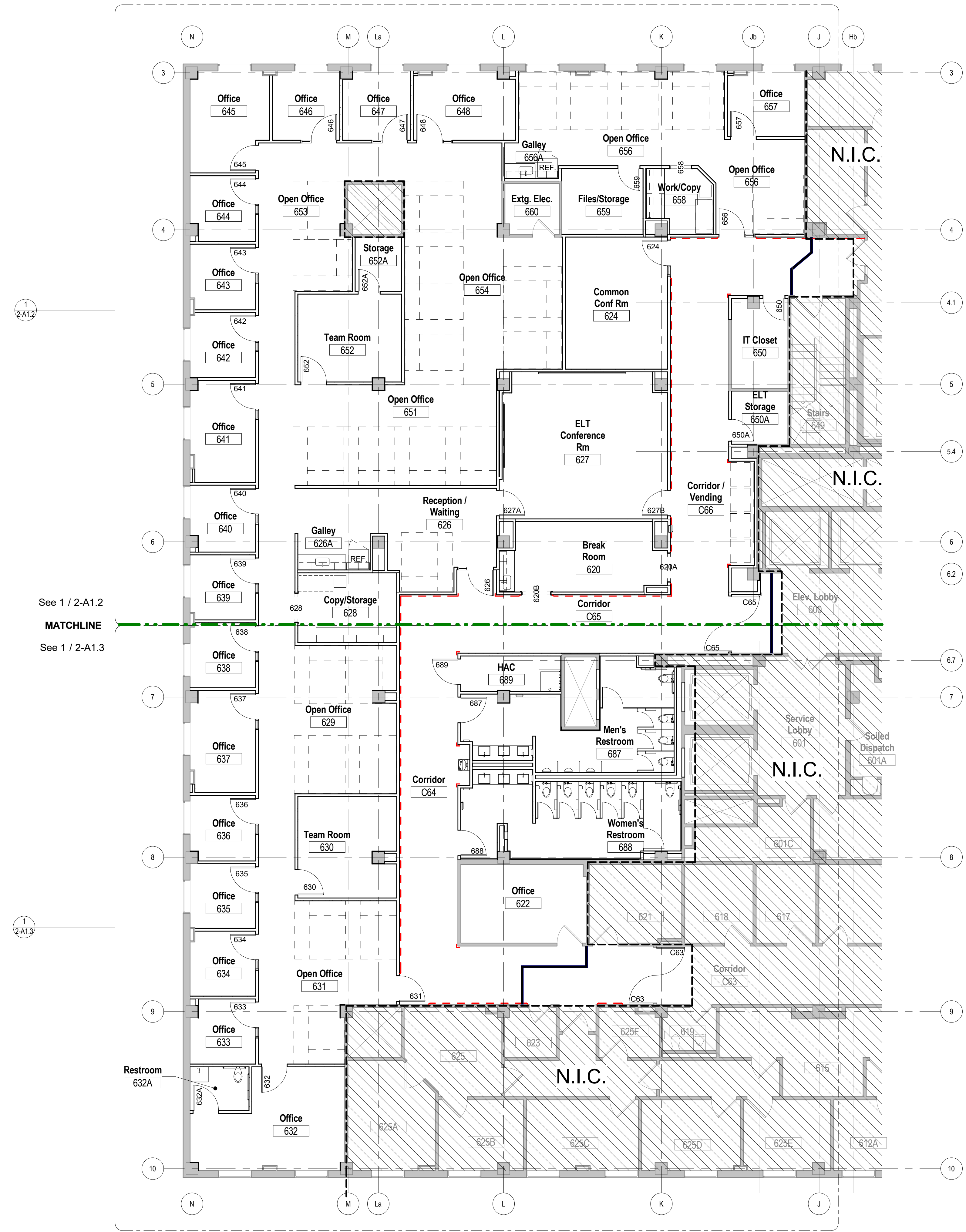


Key Plan - Area 2
Not to Scale

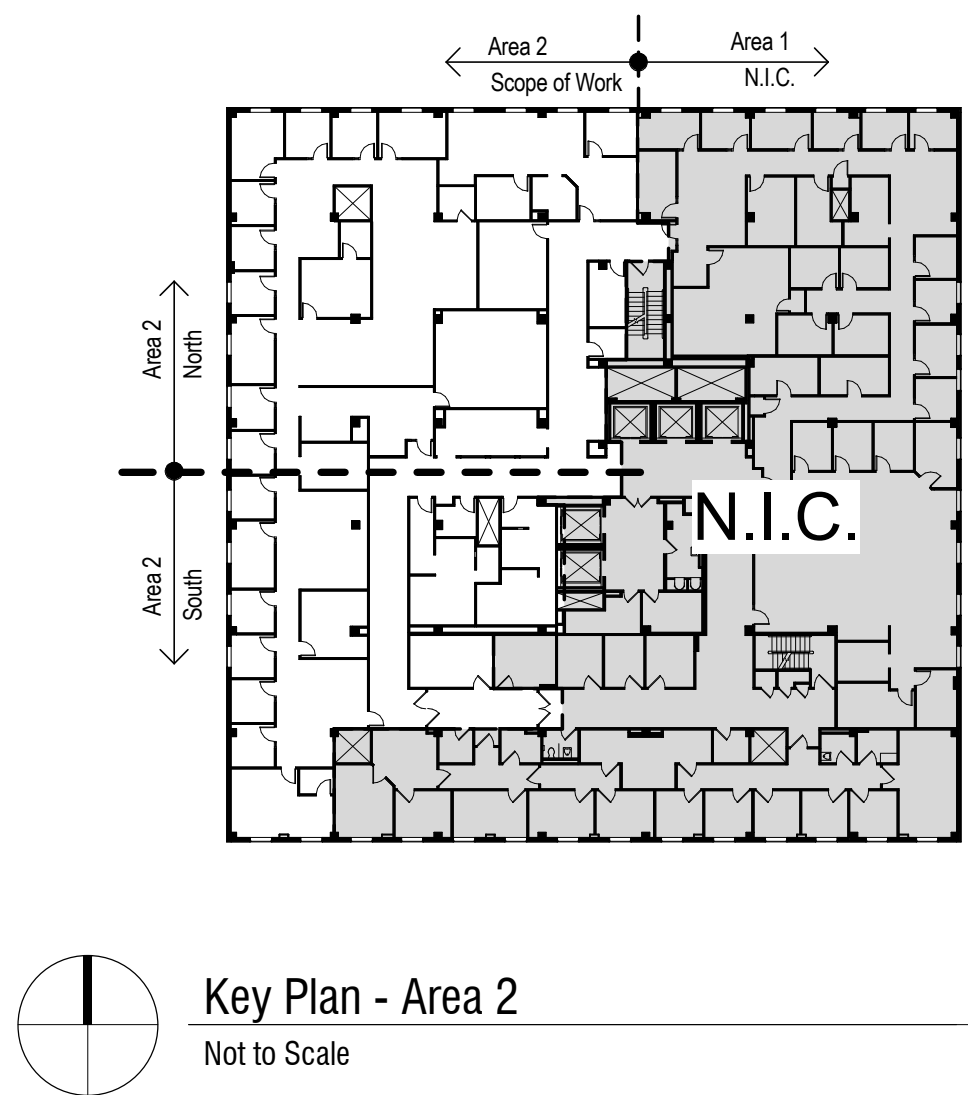
BID DOCUMENTS

Revisions:	Date	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Project Number	Office of Facilities Management Department of Veterans Affairs	
				6th Floor Demolition Plan	Renovate Vacated Surgery, Ward 6	589A4-16-102		
					Location 800 Hospital Drive Columbia, MO 65201	Building Number 01		
					Date 01/19/2018	Checked BD/HT	Drawn ZF	Project Number 2-A1.0

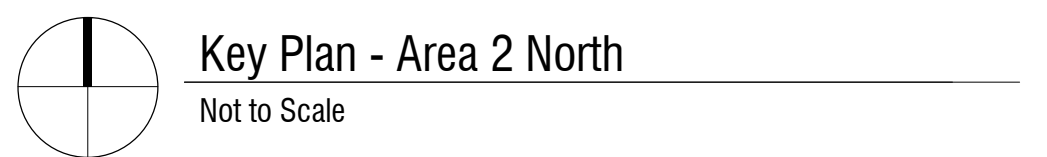
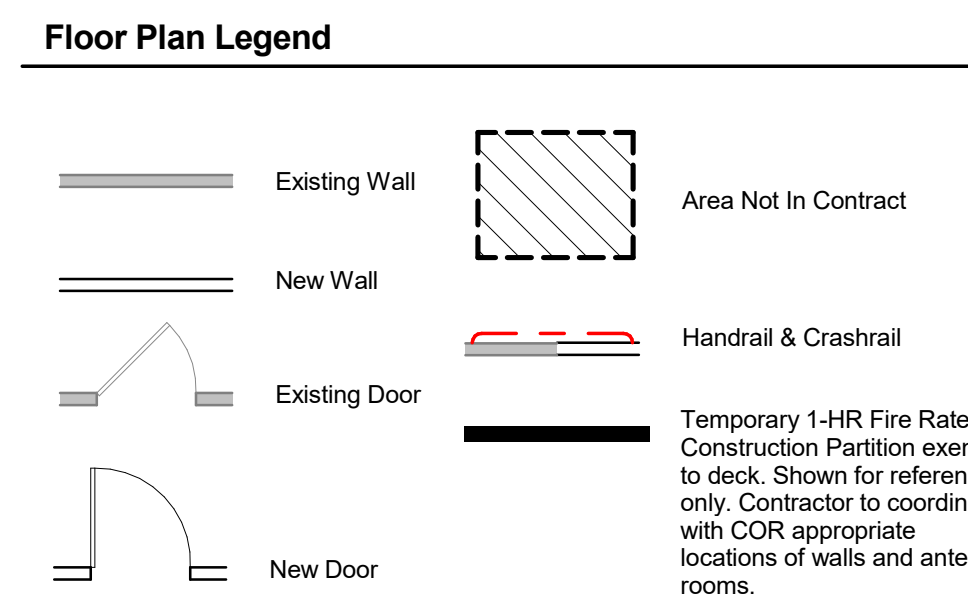
A
three inches = one foot
B
one and one half inches = one foot
C
one inch = one foot
D
three quarters inch = one foot
E
one half inch = one foot
F
one quarter inch = one foot




1 6th Floor Renovation Plan - Area 2
1/8" = 1'-0"



Revisions:		Date	CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Facilities Management	
					<div> 1/19/2018</div>		6th Floor Renovation Plan		Renovate Vacated Surgery, Ward 6		589A4-16-102			
					<div></div>				Building Number 01		Drawing Number 2-A1.1			
					<div>One Memorial Drive Suite 1800 Saint Louis, MO 63102</div> <div>Tel 314.621.4343 Fax 314.621.0261</div>				Location 800 Hospital Drive Columbia, MO 65201				 Department of Veterans Affairs	
									Date 01/19/2018		Checked BD/HT			

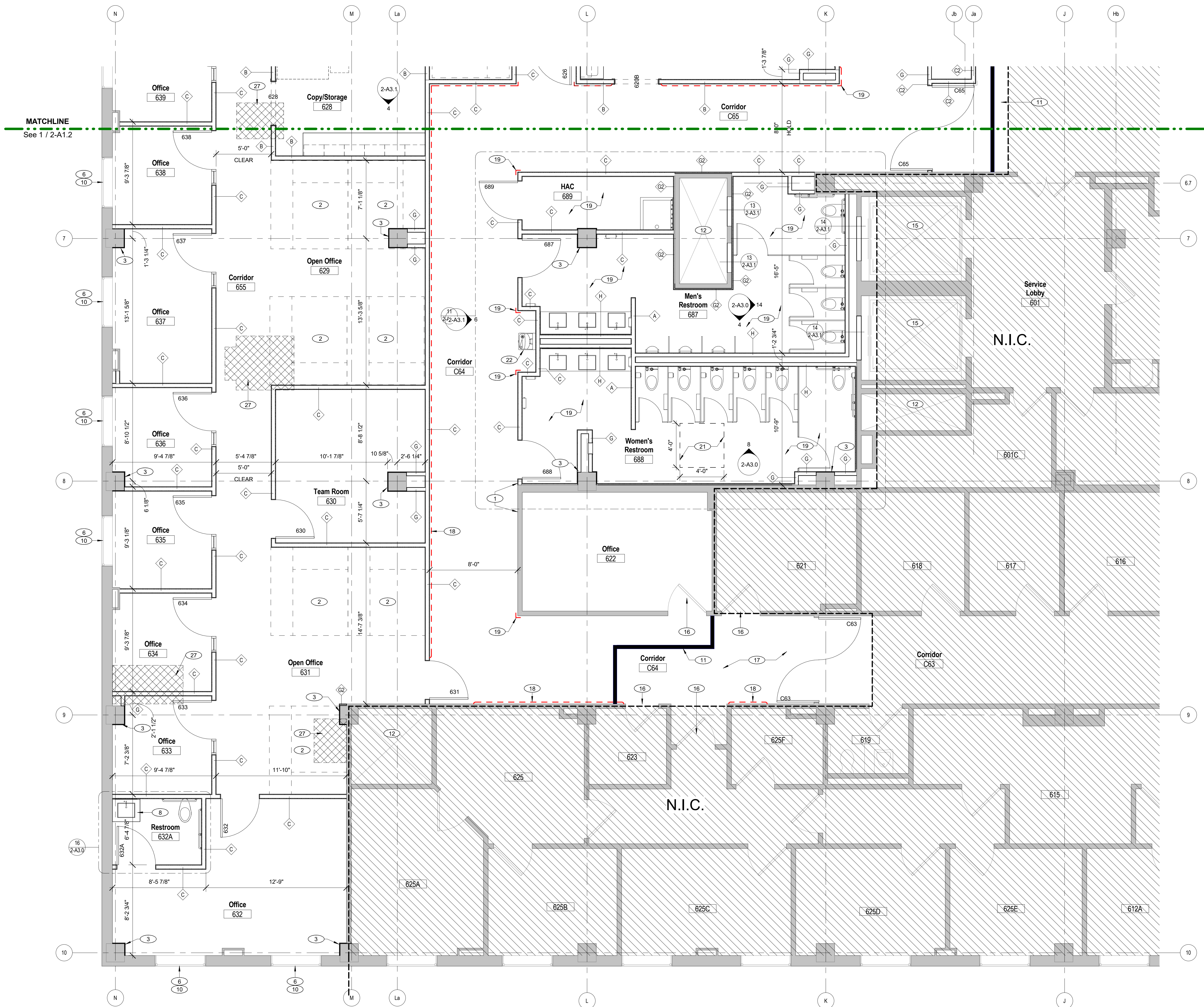


Office of
Facilities
Management

 Department of
Veterans Affairs

Revisions:	Date	CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title 6th Floor Renovation Plan - North	Project Number 589A4-16-102	Project Title Renovate Vacated Surgery, Ward 6	Building Number 01	Drawing Number 2-A1.2	Office of Facilities Management
				One Memorial Drive Suite 1800 Saint Louis, MO 63102 Tel 314.621.4343 Fax 314.621.0261	1937 Edison Avenue Chesterfield, Missouri 63005 Phone 630.532.7770 Fax 630.532.7877 info@sscengineering.com		Location 800 Hospital Drive Columbia, MO 65201	Date 01/19/2018	Checked BD/HT	Drawn ZF	 Department of Veterans Affairs

three inches = one foot
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one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one eighth inch = one foot



1 Partial 6th Floor Plan - Area 2 - South
1/4" = 1'-0"

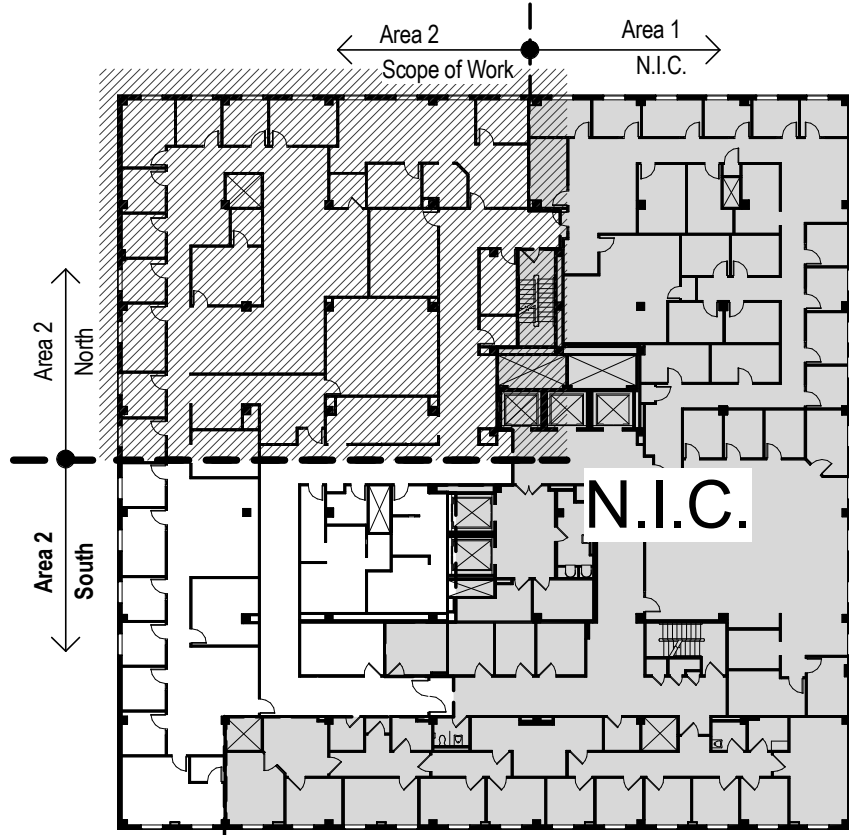
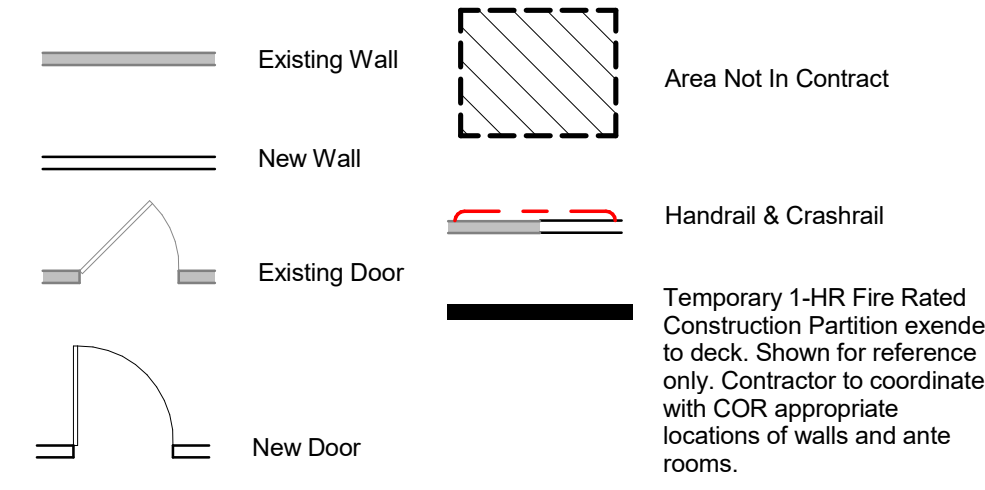
Keynote Legend - 6th Floor Plan

- Align New Wall Construction with Existing Wall. Create a Smooth and Flush Finish. Paint per Room Finish Schedule
- Workstation Shown for Reference only.
- Laminate 5/8" GWB to all Exposed Column Faces
- Base Cabinets and Upper Cabinets; See Elevation for more information.
- BizHub Equipment by Owner. Shown for Reference only
- New Window Treatment - RS1; RE: Room Finish Schedule
- Hollow Metal Cased Opening - Painted; RE: Door Schedule
- Sink; RE: Plumbing Drawings
- New Vending Machines by Owner; See Electrical Drawings for Additional Information.
- New Solid Surface Window Sill - SS2; (RE: Detail 5 / 2-A4.0)
- 1 Hour Rated Temporary Construction Barrier Partition
- Existing 2 Hour Rated Shaft Enclosure. Maintain Fire Rating
- Existing 2 Hour Rated Stairwell Enclosure. Maintain Fire Rating
- Furr Out Existing Column as Required
- Existing 2 Hour Rated Elevator Shaft. Maintain Fire Rating
- Existing Door Panel to Remain. Paint Existing HM Door Frame per Room Finish Schedule
- Install new Flooring per Room Finish Schedule in this Area; Coordinate work in this area with COR for after business hours. Area should be clean, tidy and usable before start of business hours every day.
- Install New Handrails @ this Wall. See Material Legend
- Install Stainless Steel Corner Guard 90° High Starting Above Scheduled Wall Base; See Detail 6 / 2-A4.0 and Material Legend
- Recessed Fire Extinguisher Cabinet; See 3 / 2-G0.1
- Structural Floor In-fill; RE: S-Series Drawings for Additional Information. See 18 / 2-A3.1
- Wall Mounted Drinking Fountain with Bottle Filler. RE: Plumbing for Additional Information
- (6) Wall mounted TVs provided by General Contractor and installed by General Contractor. Provide (6) Recessed AV Boxes behind TVs. See Elevation and ELEC Drawings for Additional Information. Provide FTWD Blocking behind TVs as shown on Elevations
- Install 12'-0" W x 4'-0" H White Magnetic Markerboard with Satin Aluminum marker tray; See Elevation.
- Ceiling Mounted Projector Screen provided and Installed by GC. See RCP for additional information. Center projector screen on wall indicated in Floor Plan.
- Ceiling Mounted Projector provided and Installed by GC. See E-Series Drawings for Additional Information. Follow Manufacturer recommendations for mounting distance and height AFF
- Area of Depressed Slab Shown Hatched. Infill with Lightweight Concrete to Create a Smooth and Level Surface for New Flooring Material. See Room Finish Schedule for Flooring
- Ice and Water Dispenser; See P-Series Drawings for Additional Information regarding water lines and floor drains.
- Coordinate Floor Drains in this area with P-Series Drawings. Slope Flooring immediately surrounding drain towards the center of the drain.
- Curved GWB Soffit Above Shown Dashed. RE: RCP
- Chase; Minimize size as much as possible. See MEP Drawings for Additional Information.

General Notes - Floor Plans

- A All work shown "Not in Contract" (NIC) may be accomplished by a contractor who is not included as part of the construction agreement. The GC is to coordinate with "other" contractors performing NIC work which impacts or relates to work which is part of the construction agreement.
- B Patch Existing Walls to Remain As Required
- C All dimensions are from column center line to face of partition UON. Under no circumstances shall any measurement be scaled from the drawings. Any measurement not given an actual number dimension should be brought to the COR's attention before proceeding.
- D All demolition and construction areas must have ante rooms as required and described in the specifications. Verify exact locations of ante rooms with COR.
- E All work in corridors and Elevator Lobby (other than containment wall) is either after hours or weekend work
- F Access to the passenger and freight elevators must be maintained at all times
- G Install 2 Hour Rated Fire-Caulk at all floor and roof penetrations.
- H Severe noise production work will not be allowed during normal working hours and must be scheduled with the COR for other times. This includes jack-hammering concrete, saw-cutting concrete, repetitive hammer drilling, etc.

Floor Plan Legend

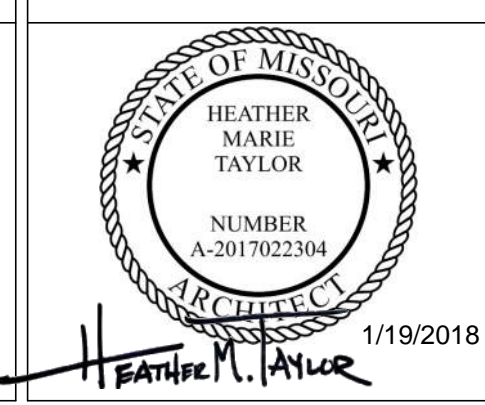


Key Plan - Area 2 South
Not to Scale

BID DOCUMENTS

Revisions:	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:

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SSC Engineering, Inc.
18207 Edison Avenue
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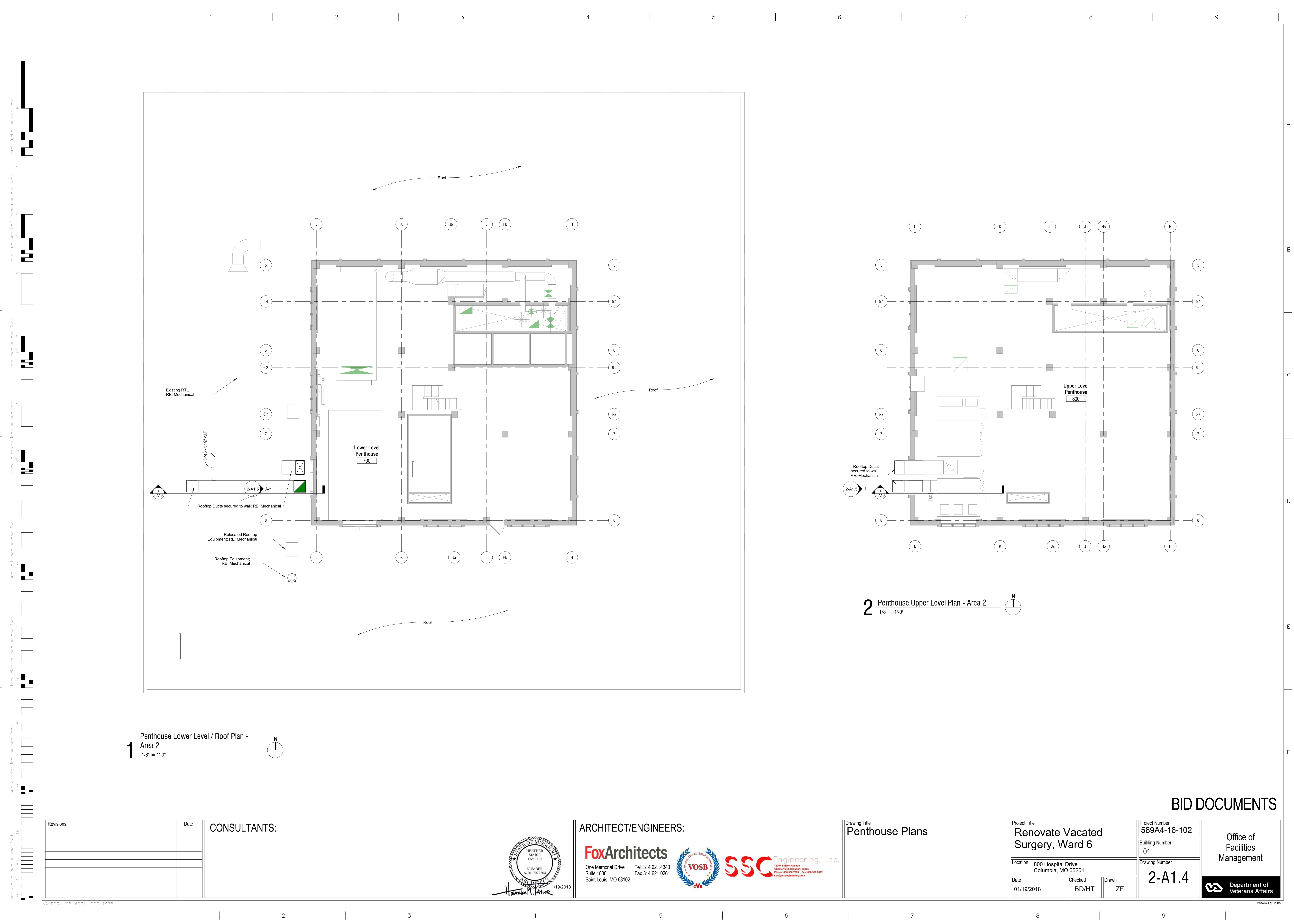
Drawing Title
6th Floor Renovation Plan - South

Project Title
Renovate Vacated Surgery, Ward 6

Location
800 Hospital Drive
Columbia, MO 65201
Date
01/19/2018
Checked
BD/HT
Drawn
ZF

Project Number
589A4-16-102
Building Number
01
Drawing Number
2-A1.3

Office of
Facilities
Management
Department of
Veterans Affairs



one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

A
B
C
D
E
F

1 Penthouse Lower Level / Roof Plan - Area 2
1/8" = 1'-0"

2 Penthouse Upper Level Plan - Area 2
1/8" = 1'-0"

Revisions:		Date	CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Facilities Management Department of Veterans Affairs			
					FoxArchitects One Memorial Drive Suite 1800 Saint Louis, MO 63102 Tel 314.621.4343 Fax 314.621.0261		Penthouse Plans		Renovate Vacated Surgery, Ward 6		589A4-16-102					
					VOSB SSC Engineering, Inc. 18207 Edison Avenue Overland Park, Missouri 66205 Phone: 816.336.7770 Fax: 816.336.7877 info@sscengineering.com				Location 800 Hospital Drive Columbia, MO 65201		Building Number 01					
									Date 01/19/2018		Checked BD/HT		Drawn ZF		Drawing Number 2-A1.4	

A

B

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E

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A

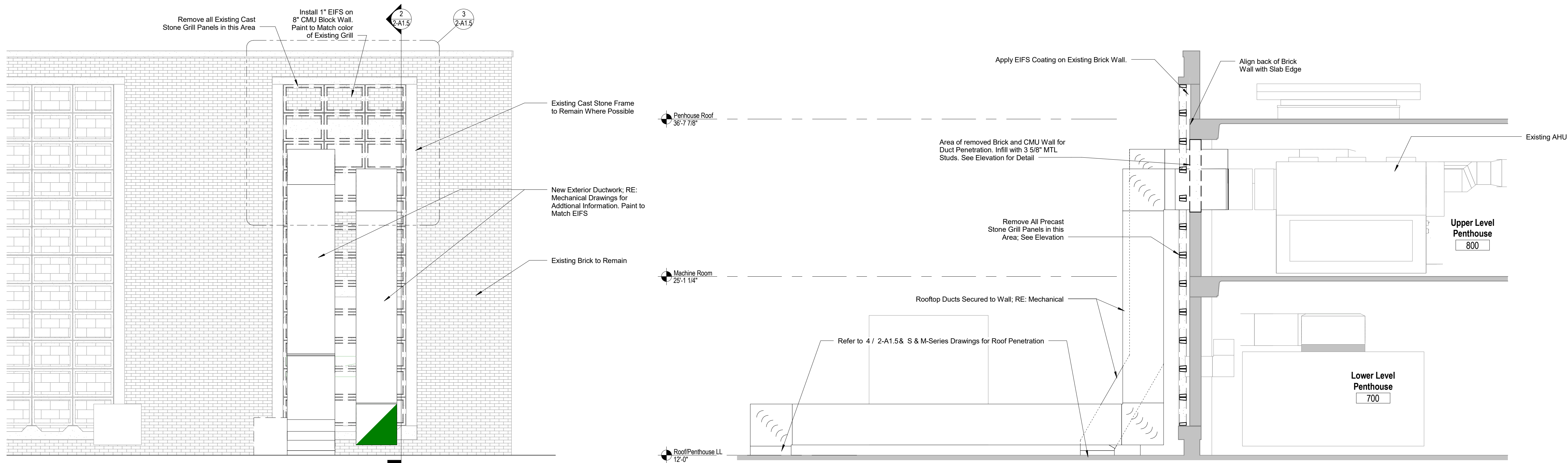
B

C

D

E

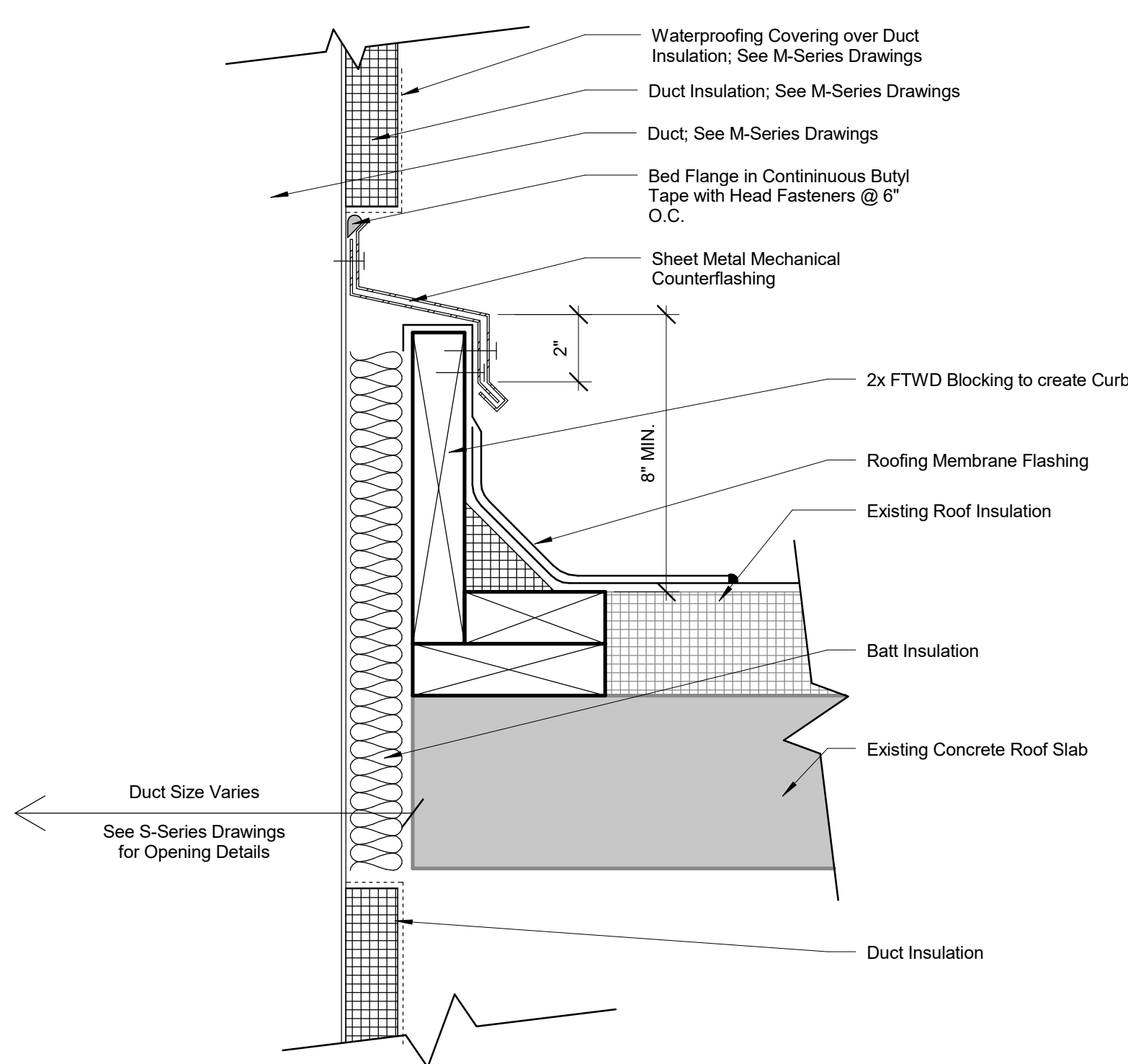
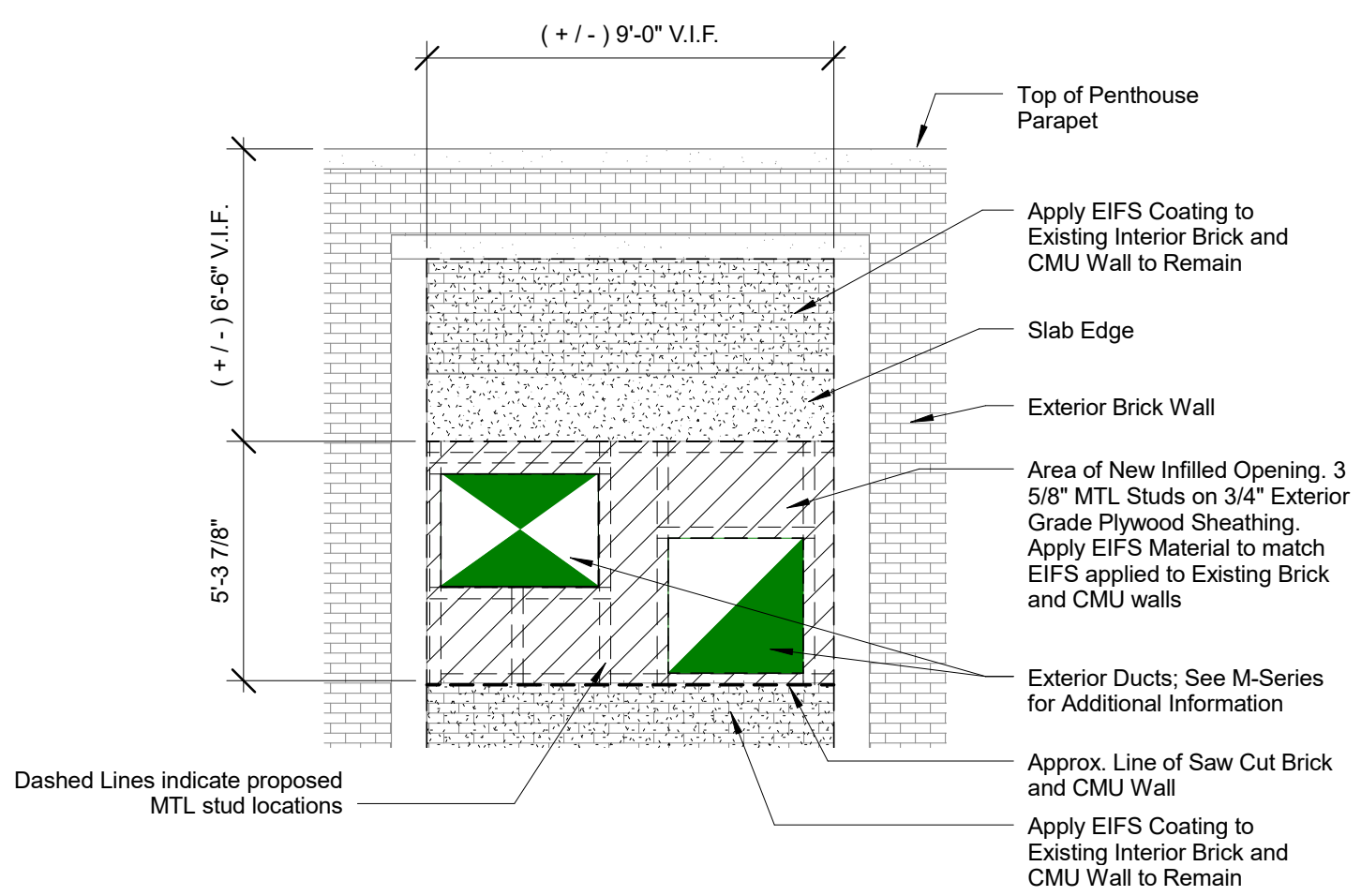
F



1 Elevation - Penthouse West (Demolition and Renovation)
1/4" = 1'-0"

2 Section - Penthouse @ Exterior Ducts (Demolition and Renovation)
1/4" = 1'-0"

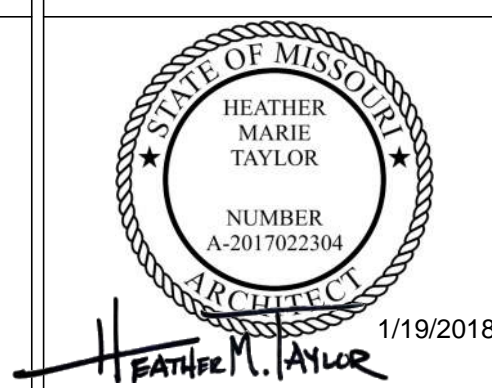
3 Detail - Opening at Penthouse
1/4" = 1'-0"



4 Detail - Rooftop Duct Penetration
3" = 1'-0"

Revisions:	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:

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Overland Park, Missouri 66205
Phone: 816.336.7770 Fax: 816.336.7877
info@sscengineering.com

Drawing Title
Exterior Elevations & Details

Project Title
Renovate Vacated Surgery, Ward 6

Location
800 Hospital Drive
Columbia, MO 65201

Date
01/19/2018

Checked
BD/HT

Drawn
ZF

Project Number
589A4-16-102
Building Number
01

Drawing Number
2-A1.5


Office of
Facilities
Management








BID DOCUMENTS



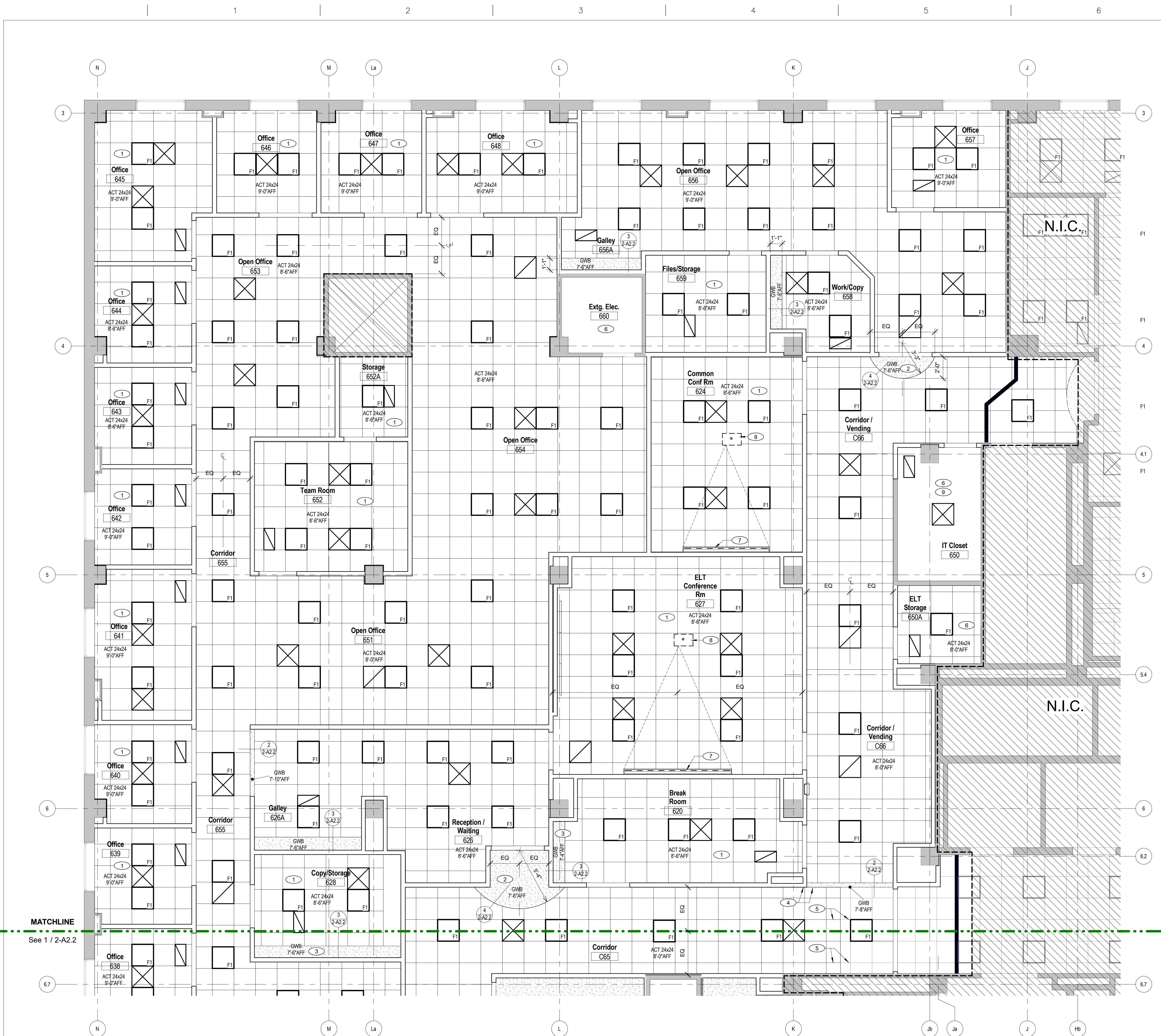
- Legend - 5th Floor Ceiling Work**

-  Area of ceiling work on 5th floor. Remove and patch GIBB ceiling as required for work above.

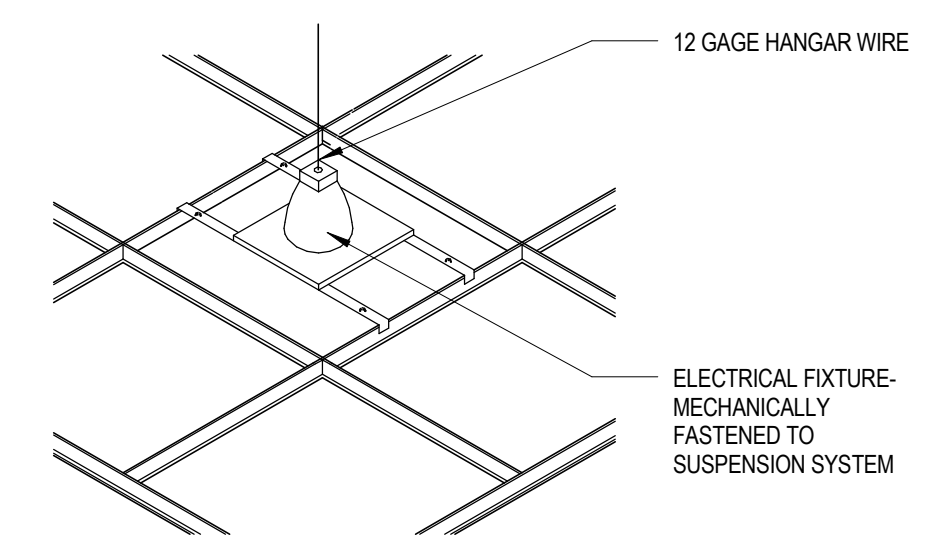
 Area of ceiling work on 5th floor. Remove and reinstall ACT ceiling system as required for work above.

Revisions:	Date	CONSULTANTS:	 <i>Heather M. Taylor</i> 1/19/2018	ARCHITECT/ENGINEERS:	 One Memorial Drive Suite 1800 Saint Louis, MO 63102 Tel 314.621.4343 Fax 314.621.0261	 Veterans Owned Small Business	 1927 Edison Avenue Columbia, Missouri 65205 Tel 636.586.7877 info@sscengineering.com	Drawing Title 5th Floor Ceiling Work	Project Title Renovate Vacated Surgery, Ward 6	Project Number 589A4-16-102	Building Number 01	2-A2.0	 Department of Veterans Affairs
								Location 800 Hospital Drive Columbia, MO 65201			Drawing Number		
								Date 01/19/2018	Checked BD/HT	Drawn ZF			

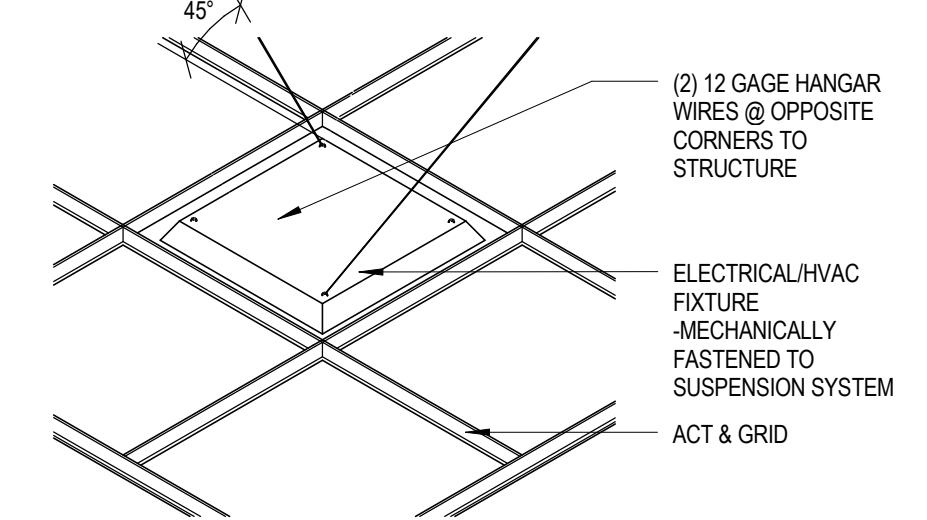
three inches = one foot
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one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



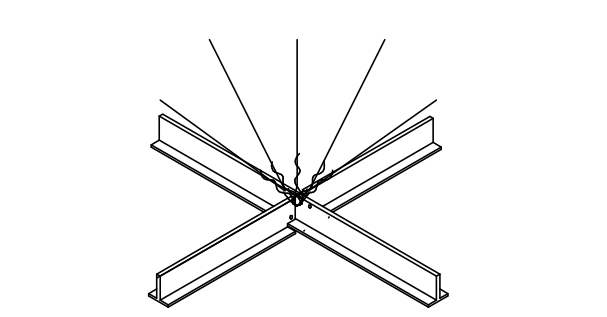
- General Notes - Reflected Ceiling Plans**
- A Refer to Electrical drawings for engineering information, i.e. circulating, fixture schedule, etc. These architectural drawings will take precedence for fixture location, exiting, and egress pathway.
 - B Refer to Seismic Bracing requirements on 2-A2.1
 - C All Gridded Ceilings to be ACT, UON
 - D All building core and shell shown shaded as existing UON
 - E All ceiling and fixture dimensions noted above finish floor (AFF) are from bottom of the fixture and ceiling pads
 - F Per specification, submit shop drawings on all special ceiling items for architectural review of seams, joints, and layout.
 - G If any ceiling element cannot be installed as shown due to conflicts with existing piping, ductwork, or structure, contact COR for direction before proceeding with the installation.
 - H Louvers, grills, and diffusers shall be prefinished to match ceiling. In cases where these items are not available from the manufacturer in a prefinished color to match the ceiling, provide automotive paint finish or electrostatic painted finish to match the ceiling. Follow finish schedule and notes for selected color.
 - I Respective contractors shall coordinate and review locations of access panels in new GWB ceilings / soffits required to provide access to new and existing valves, junction / pull boxes, dampers, etc.
 - J For all electrical ceiling device locations RE: electrical drawings.
 - K ACT Grid lines and Light Fixtures to be centered in rooms and corridors, where possible, UON
 - L Severe noise production work will not be allowed during normal working hours and must be scheduled with the COR for other times. This includes jack-hammering concrete, saw-cutting concrete, repetitive hammer drilling, etc.



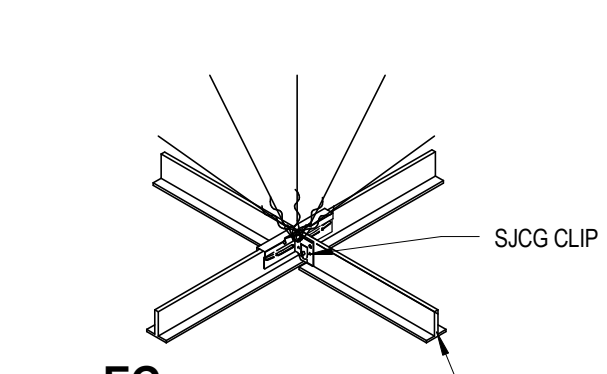
AT RECESSED DOWNLIGHT



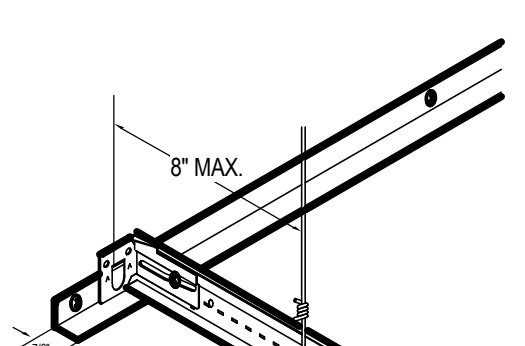
AT LAY-IN FIXTURE



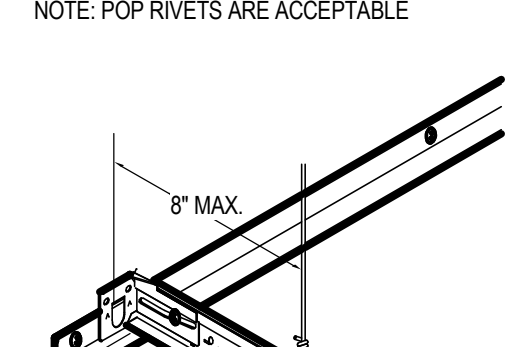
LFB LATERAL FORCE BRACE



EC EXPANSION CLIP

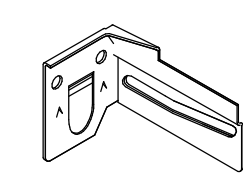


ATTACHED WALL
NOTE: POP RIVETS ARE ACCEPTABLE



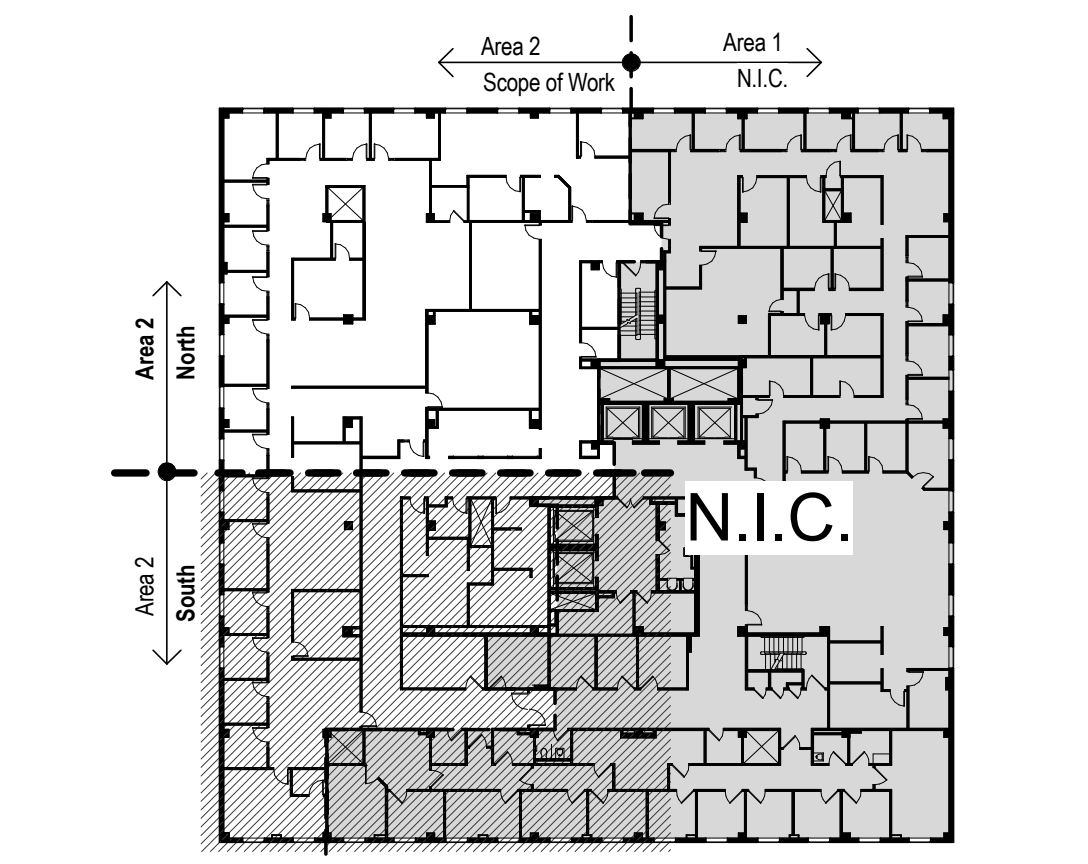
UNATTACHED WALL

- REQUIREMENTS:**
- ATTACHED ON (2) ADJACENT WALLS WITH THE BERCC2.
 - NOTE: ATTACHING BERCC2 CLIP TO THE WALL SECURES THE GRID AND ELIMINATES THE NEED FOR POP RIVETS THROUGH THE VISIBLE PART OF THE WALL MOLDING.
 - BERCC2 CLIP WITH 3/4" CLEARANCE ON UNATTACHED ENDS.
 - BERCC2 CLIP ON ALL (4) WALLS
 - HEAVY-DUTY GRID
 - LATERAL BRACING
 - PERIMETER SUPPORT WIRE
 - EXPANSION CLIP PER MFR



- Reflected Ceiling Plan Legend**
- Suspended Ceiling Tile System; ACT1 - See Material Schedule
 - Gypsum Wall Board Ceiling System; Painted - See Room Finish Schedule
 - Air Return Diffuser (RE: MECH.)
 - or
 - Air Supply Diffuser (RE: MECH.)
 - Exit Sign (RE: ELEC.)
 - 2'-0" x 2'-0" Lay-In Light Fixture (RE: ELEC.)
 - 6" Recessed Can Light Fixture (RE: ELEC.)
 - 1'-0" x 4'-0" Lay-In Light Fixture (RE: ELEC.)

- Keynote Legend - 3rd Floor Reflected Ceiling Plan**
- 1 Align Ceiling grid lines so 2x2 Light Fixtures are centered in room
 - 2 Curved GWB Soffit over Department Entrance
 - 3 GWB Soffit @ Casework
 - 4 Align Bulkhead with Wall
 - 5 Tie in new Ceiling Grid with Existing Ceiling Grid
 - 6 No ceiling this room.
 - 7 Ceiling Mounted Projector Screen provided and Installed by GC. See RCP for additional information and detail 5 / 2-A2.2 Center projector screen on wall indicated in Floor Plan.
 - 8 Ceiling Mounted Projector provided and Installed by GC. See E-Series Drawings for Additional Information. Follow Manufacturer recommendations for mounting distance and height AFF
 - 9 Existing lights to remain in this room. Install Occupancy Sensors. See E-Series Drawings for Additional Information



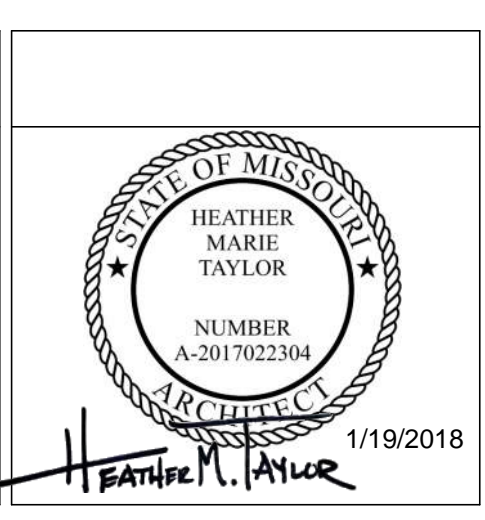
Key Plan - Area 2 North
Not to Scale

BID DOCUMENTS

6th Floor Reflected Ceiling Plan - Area 2 North
1 1/4" = 1'-0"

Revisions:	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:

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One Memorial Drive
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Saint Louis, MO 63102

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Fax 314.621.0261

SSC Engineering, Inc.
18207 Edison Avenue
Overland Park, Missouri 66116
Phone 816.351.7770 Fax 816.351.7877
info@sscengineering.com

Drawing Title
6th Floor Reflected Ceiling Plan - North

Project Title
Renovate Vacated Surgery, Ward 6

Location
800 Hospital Drive
Columbia, MO 65201

Date
01/19/2018

Checked
BD/HT

Drawn
ZF

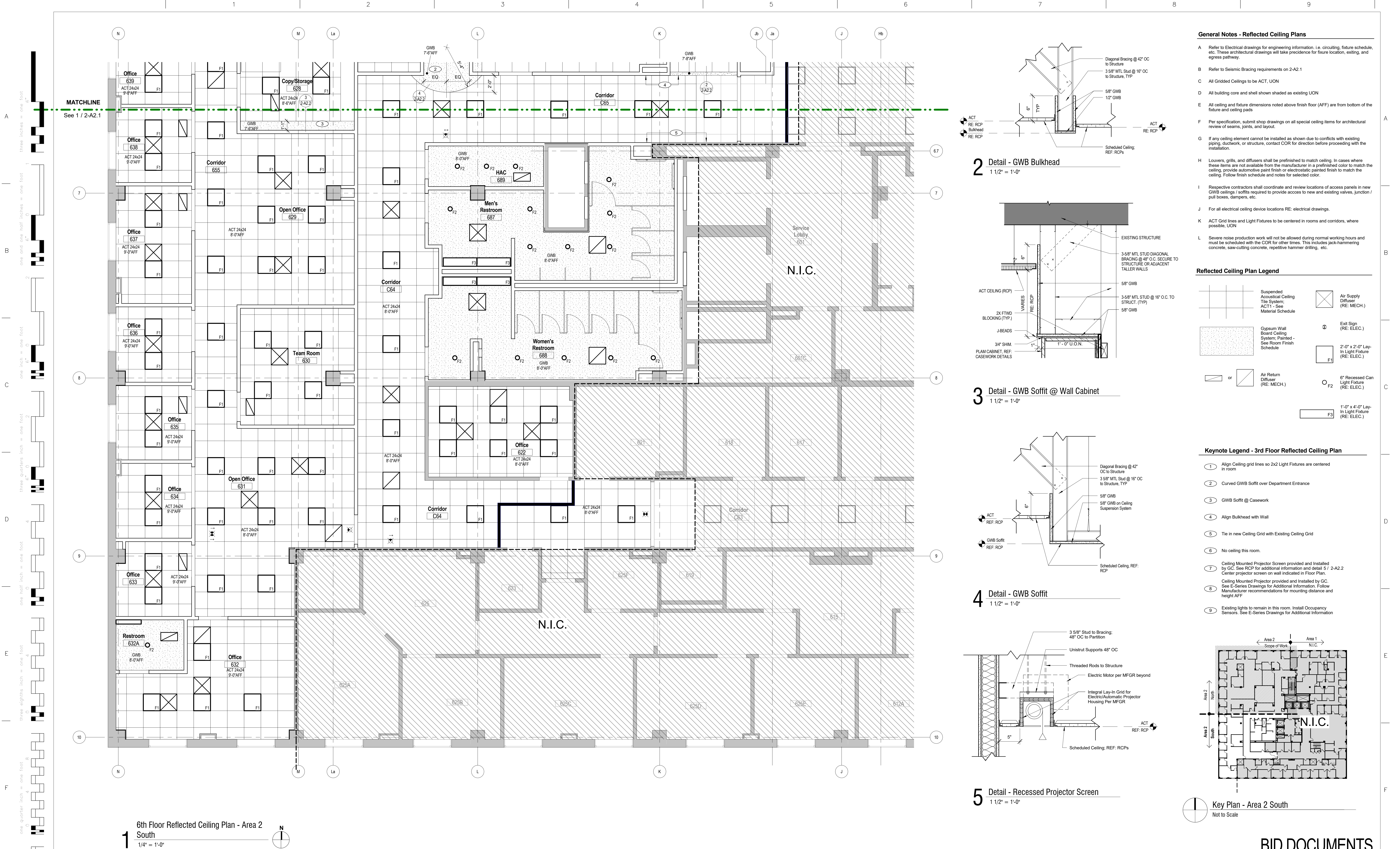
Project Number
589A4-16-102

Building Number
01

Drawing Number
2-A2.1

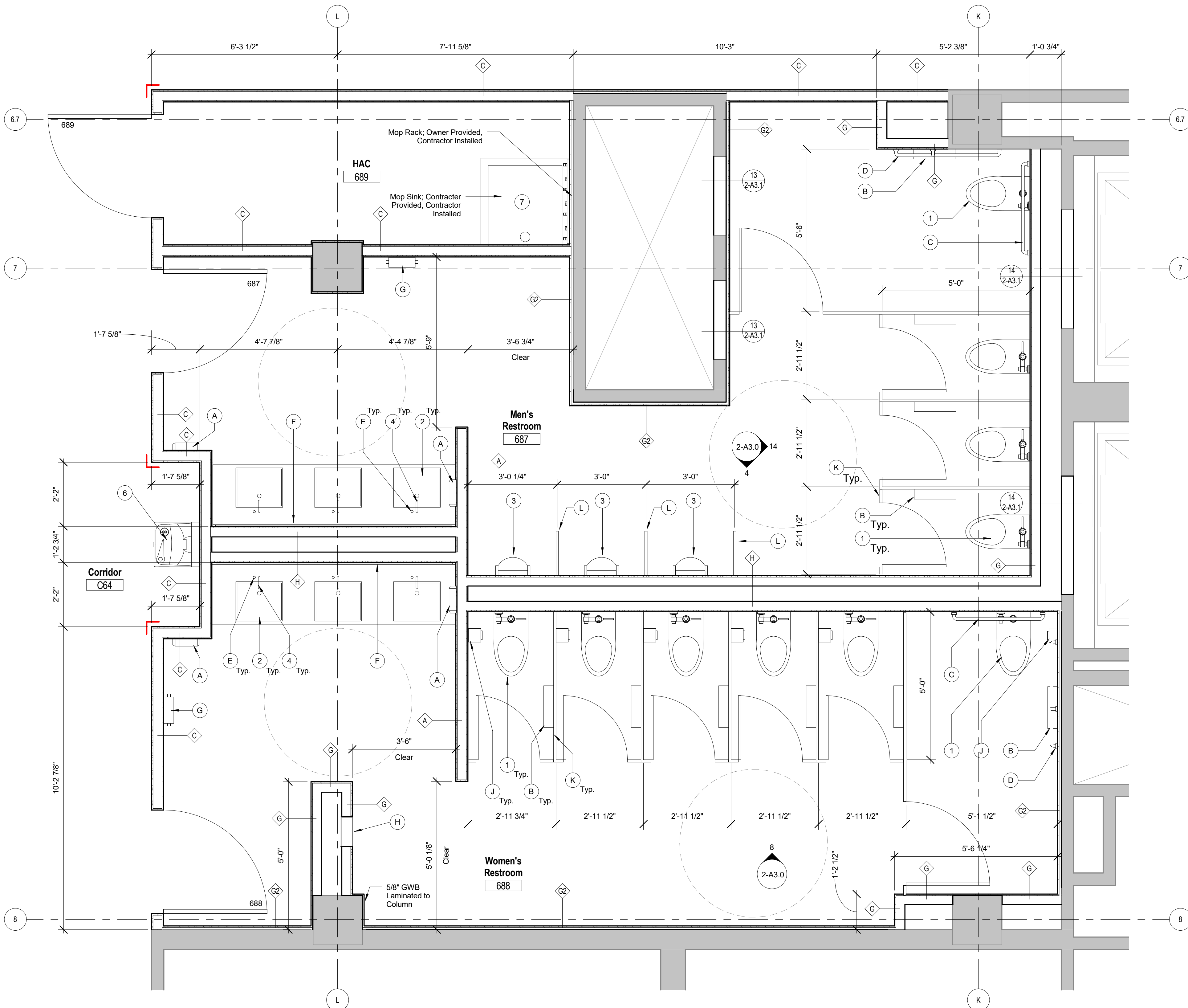
Office of
Facilities
Management

Department of
Veterans Affairs

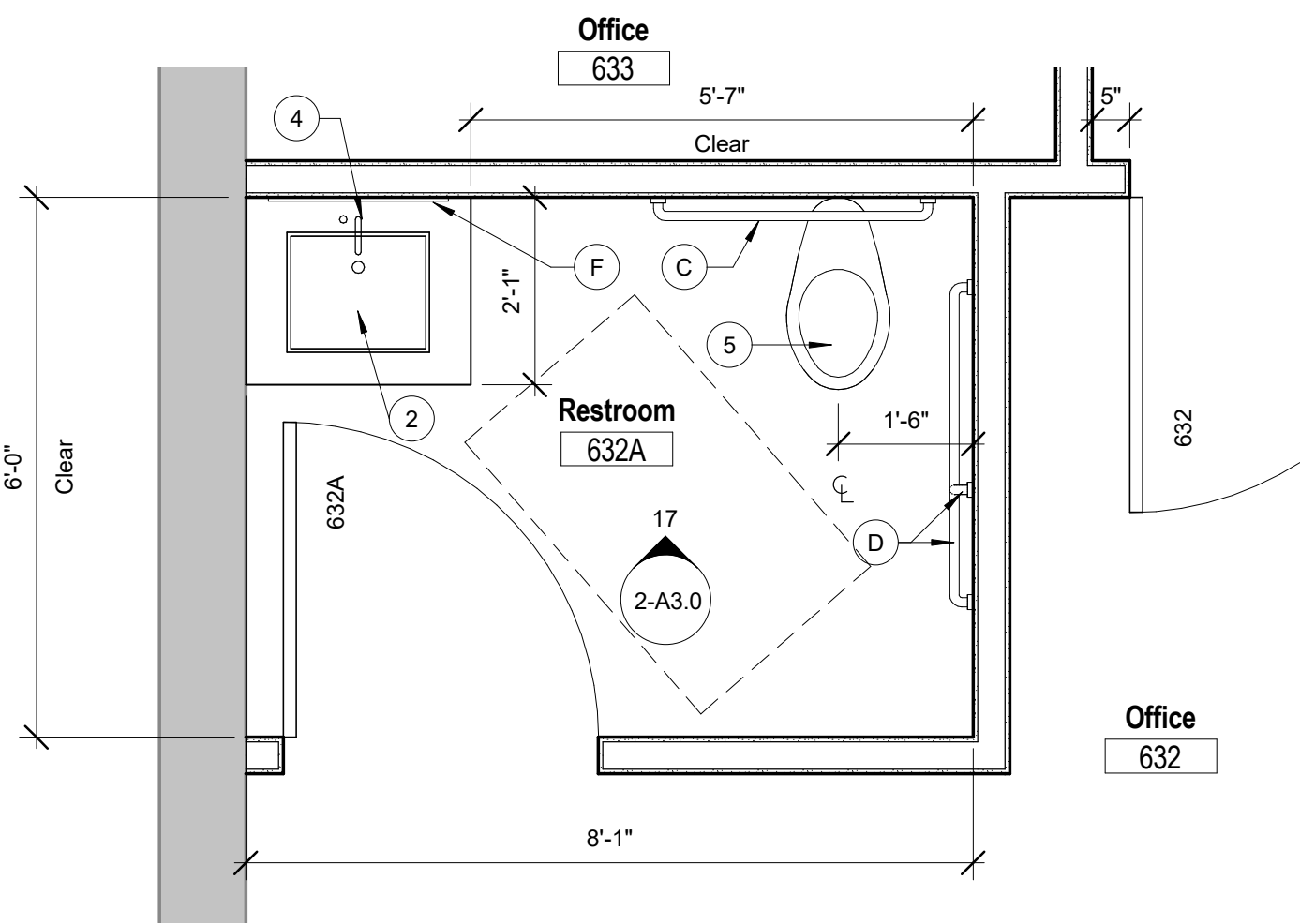


Revisions:	Date	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Project Number	Office of Facilities Management
				6th Floor Reflected Ceiling Plan - South	Renovate Vacated Surgery, Ward 6	589A4-16-102	
					Location 800 Hospital Drive Columbia, MO 65201	Building Number 01	
					Date 01/19/2018	Drawn ZF	
					Checked BD/HT	2-A2.2	

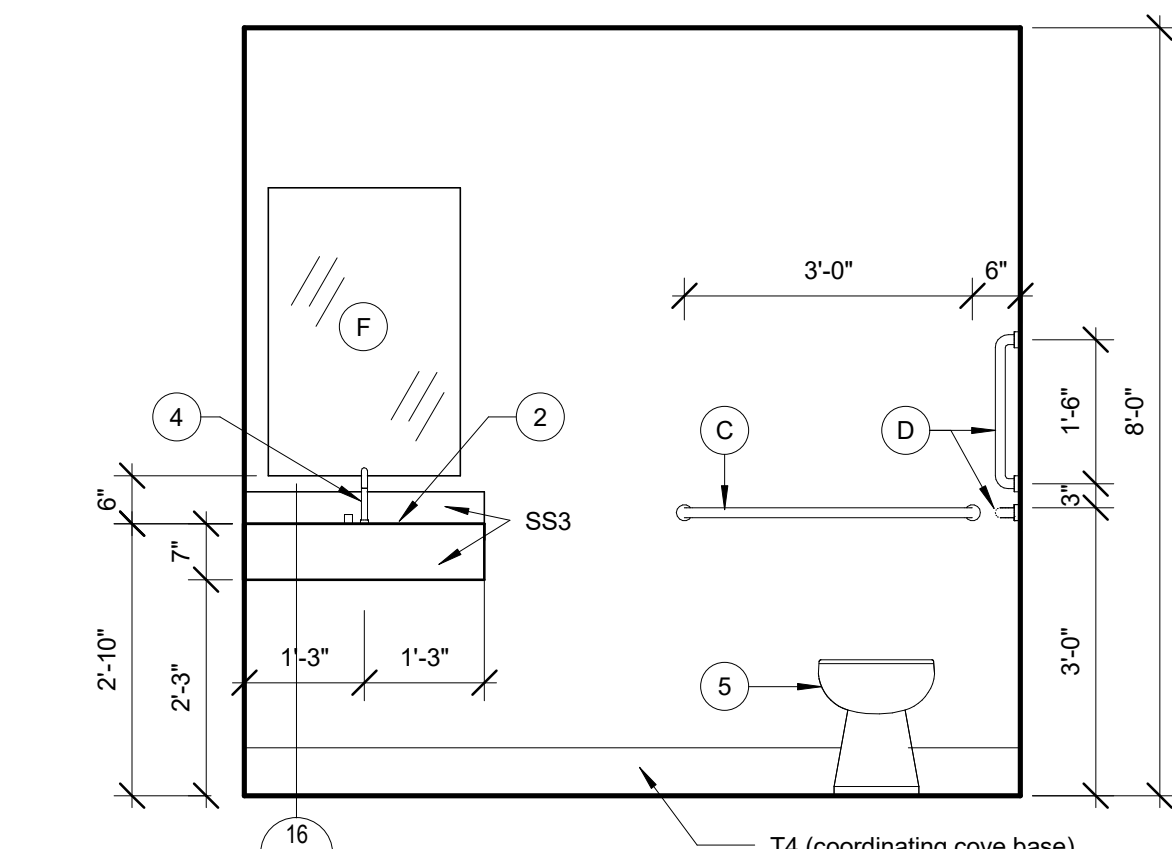
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot



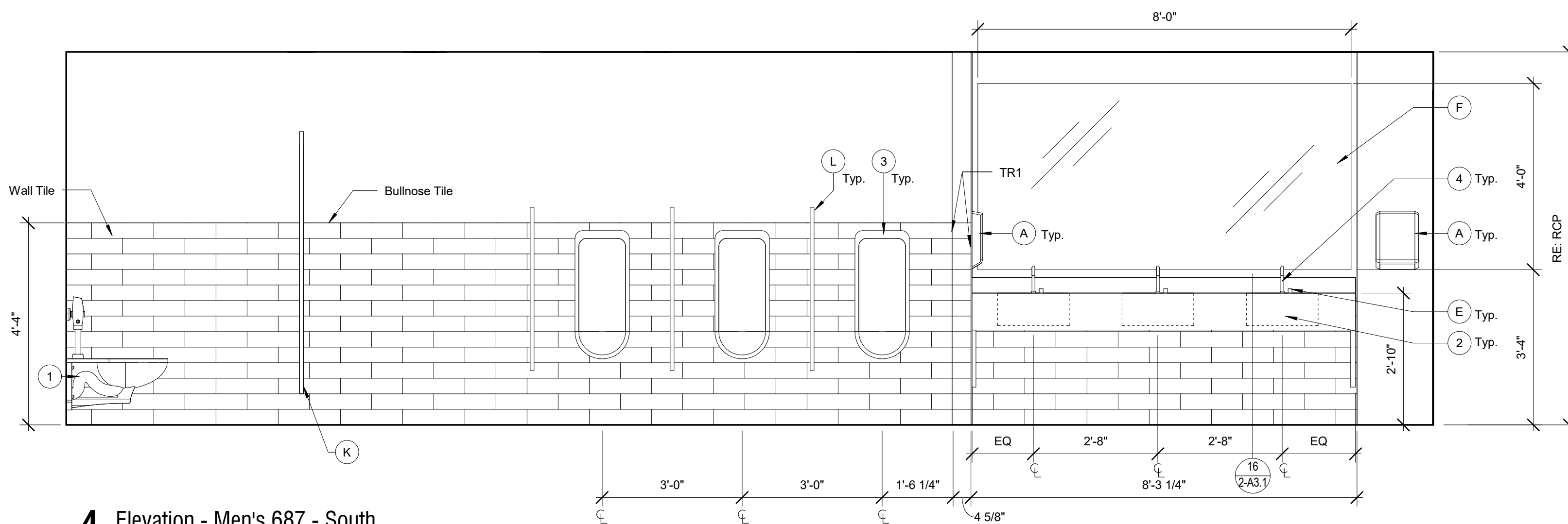
11 Enlarged Restroom Plan - Area 2
1/2" = 1'-0"



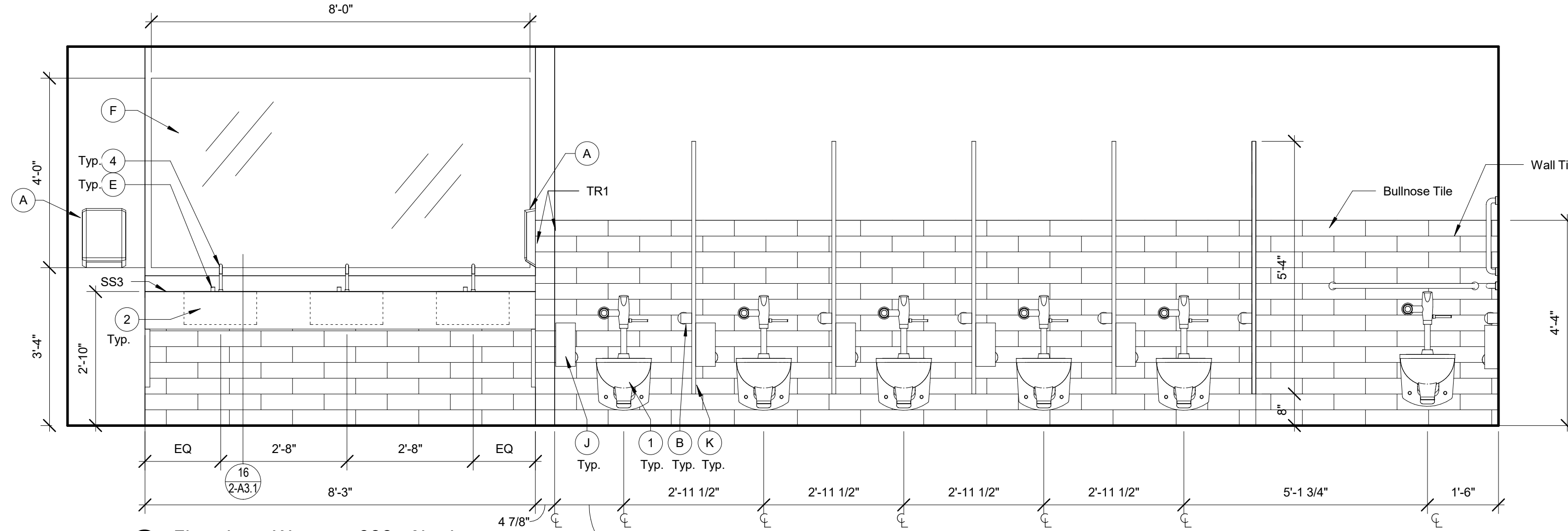
16 Enlarged Plan - Restroom 632A
1/2" = 1'-0"



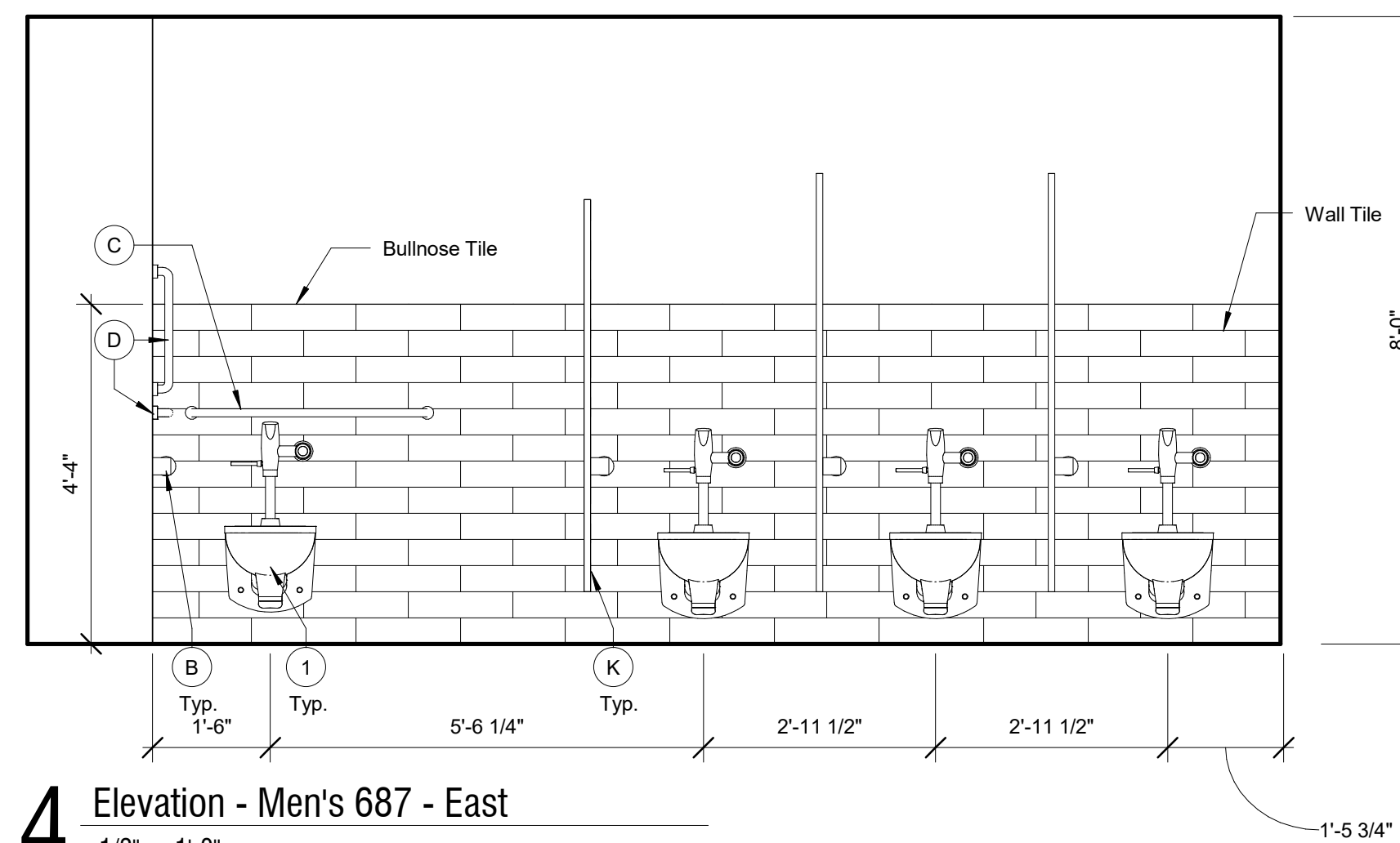
17 Elevation - Restroom 632A - North
1/2" = 1'-0"



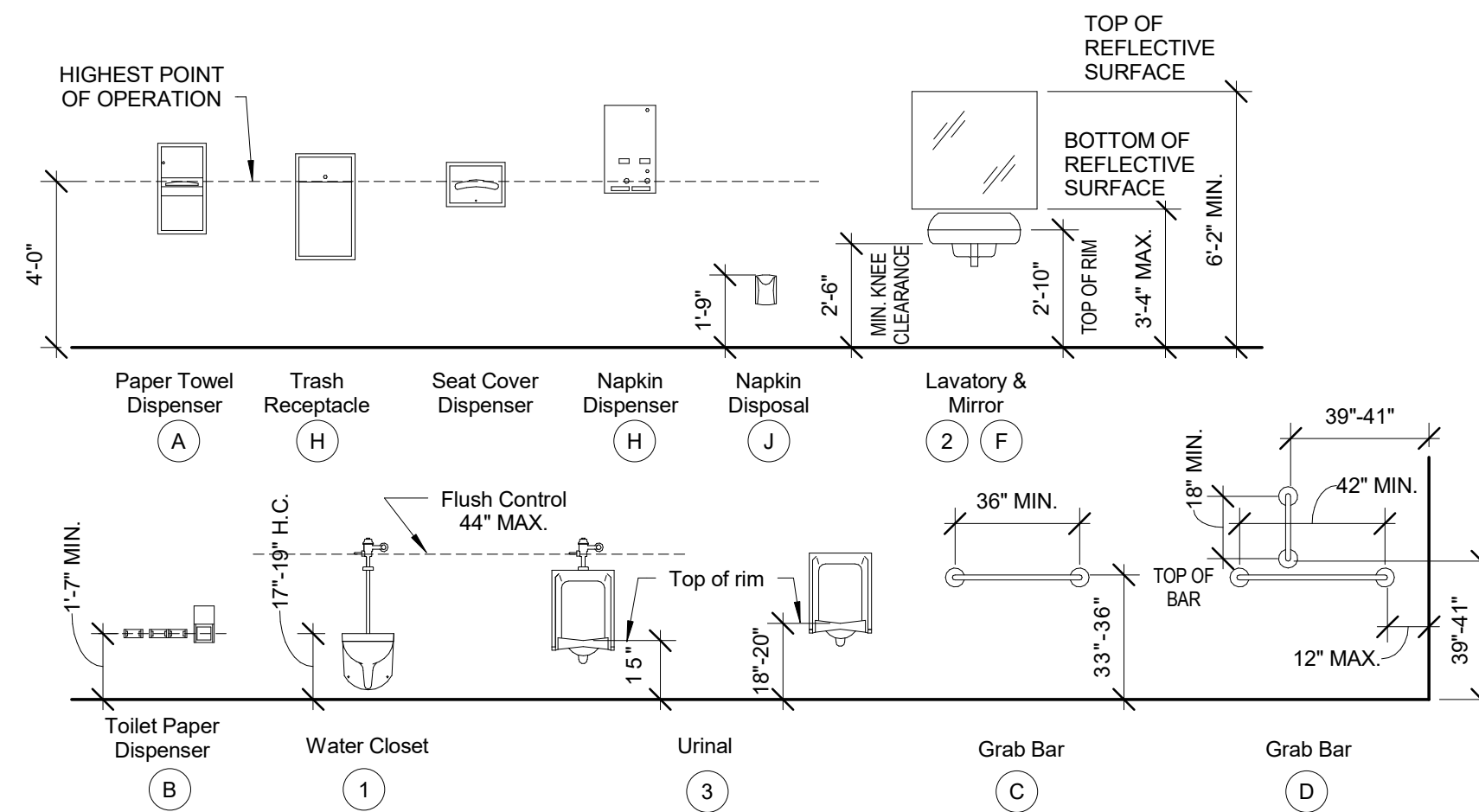
4 Elevation - Men's 687 - South
1/2" = 1'-0"



8 Elevation - Womens 688 - North
1/2" = 1'-0"



14 Elevation - Men's 687 - East
1/2" = 1'-0"



12 Standard Mounting Heights
1/4" = 1'-0"

Restroom Accessory Schedule

Key	Description	Manufacturer/Model	Finish	Mounting	Remarks
A	Paper Towel Dispenser	--	--	Per MFG Instructions	1
B	Toilet Tissue Dispenser	--	--	Per MFG Instructions	1
C	Grab Bar: 1 @ 36" Straight Bar	Bobrick B-5006 x 36	--	Wall Mounted Top of Bar 3'-0" AFF	2
D	Grab Bar: 1 @ 42" Straight Bar w/ 18" Vertical Bar Above	Bobrick B-5006 x 42 B-5008 x 18	--	Wall Mounted Top of Bar 3'-0" AFF	2
E	Soap Dispenser	--	--	Per MFG Instructions	1
F	Mirror	Bobrick B-165 x 2436	--	Bottom of Reflective Surface @ 40" AFF	2
G	Bio-hazardous Waste Receptacle	--	--	--	1
H	Sanitary Napkin Dispenser	--	--	--	1
J	Sanitary Disposal	--	--	--	1
K	Toilet Partition	--	--	--	2
L	Urinal Partition	--	Stainless Steel	--	2

Remarks - Restroom Accessory Schedule:
1. Provided by Owner (VA) and installed by GC
2. Provided and installed by GC

Plumbing Fixture Schedule

Key	Description	Manufacturer/Model	Finish	Mounting	Remarks
1	Wall Hung Toilet	--	--	Wall	1, 2
2	Lavatory Sink	--	--	Counter	1, 2
3	Urinal	--	--	Wall	1, 2
4	Faucet - Automatic	--	--	Surface	1, 2
5	Floor Mounted Toilet	--	--	Floor	1, 2
6	Drinking Fountain with Bottle Filler	--	--	Wall @ ADA Height	1, 2
7	Mop Sink	24" x 24"	--	Floor	1, 2

Remarks - Plumbing Fixture Schedule:
1. Provided and installed by GC
2. See Plumbing Drawings for more information.

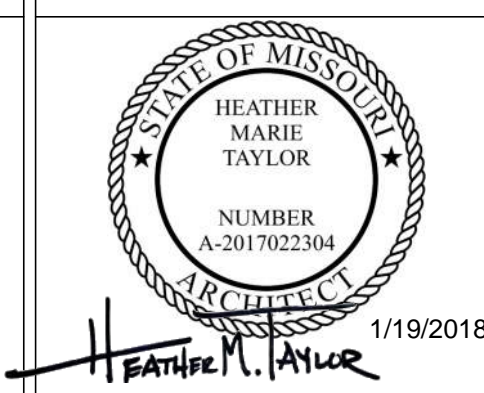
General Notes - Restroom Accessories & Plumbing Fixtures:

- A. All accessories and fixtures specified are for design intent only.
B. Hot water & drain pipes under lavatories shall be insulated or otherwise configured to protect against contact.
C. Mounting and location of accessories in accordance with ADA accessible accessories. See 12 / 2-A3.0 for more information

BID DOCUMENTS

Revisions:	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:

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One Memorial Drive
Suite 1800
Saint Louis, MO 63102
Tel 314.621.4343
Fax 314.621.0261



SSC Engineering, Inc.
18207 Edison Avenue
Overland Park, Missouri 66205
Phone: 636.336.7770 Fax: 636.336.7877
www.sscengineering.com

Drawing Title
Enlarged Restroom Plans & Elevations

Project Title
Renovate Vacated Surgery, Ward 6

Location
800 Hospital Drive
Columbia, MO 65201

Date
01/19/2018

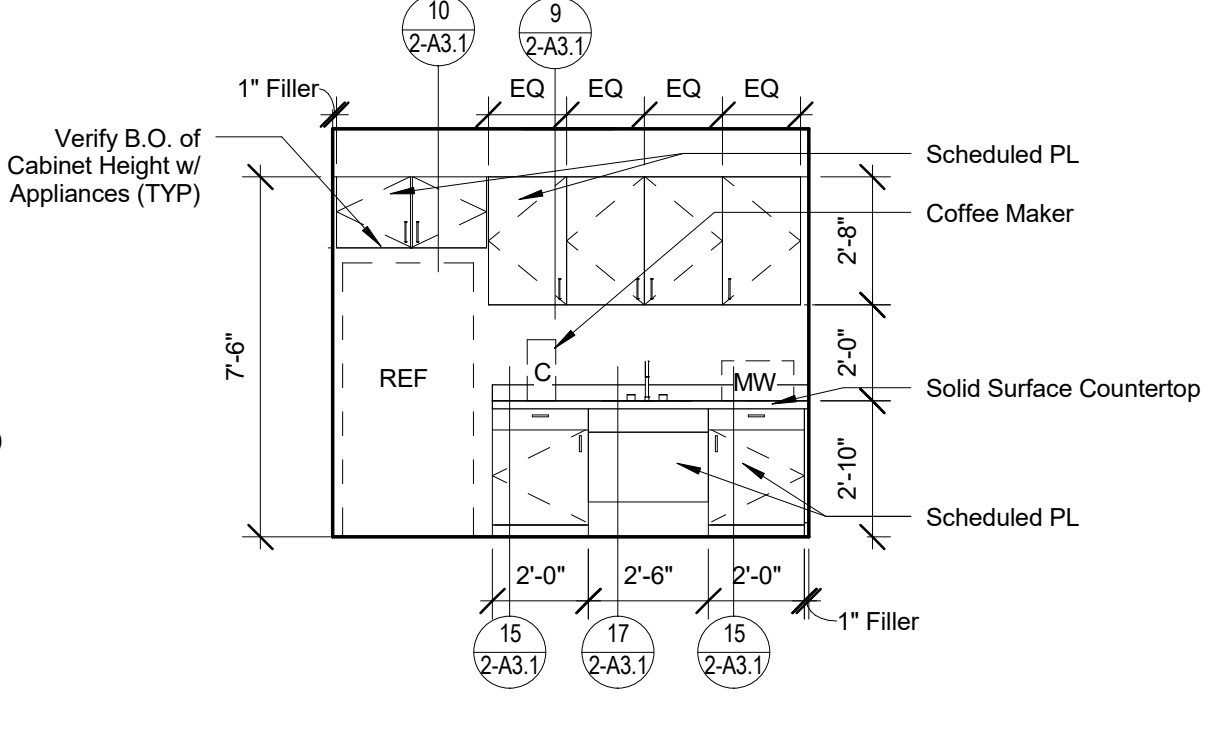
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BD/HT

Drawn
ZF

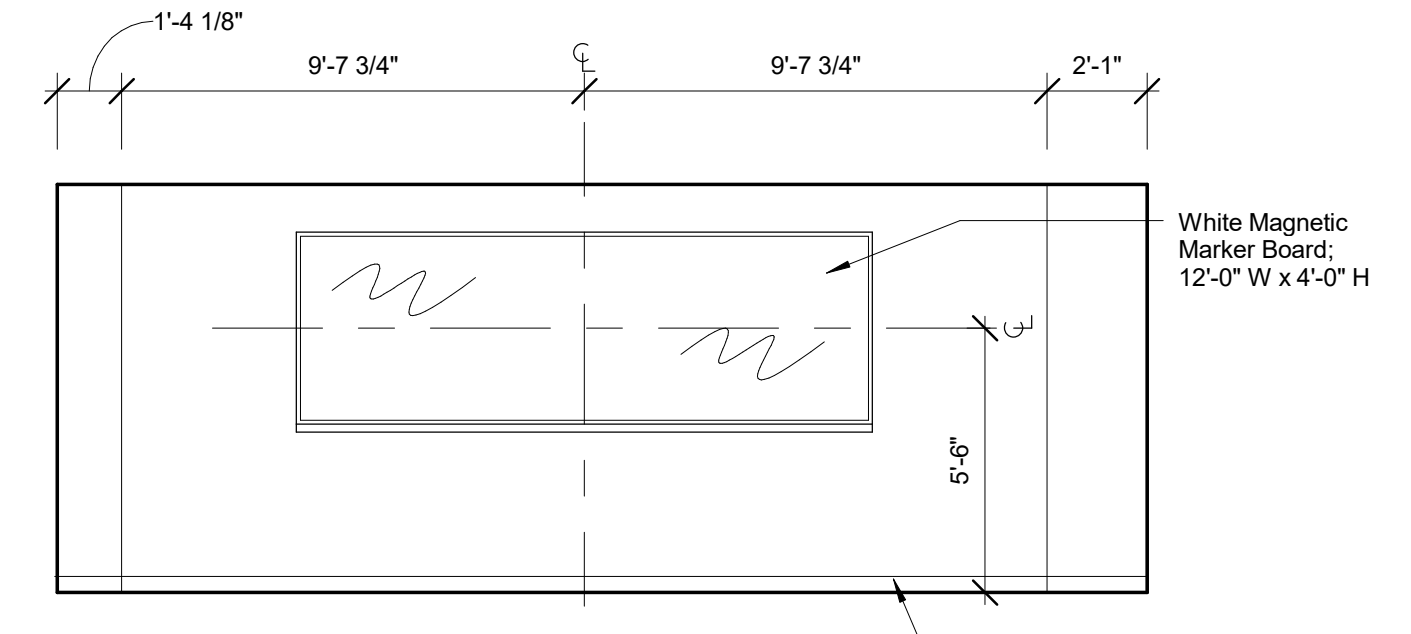
Project Number
589A4-16-102
Building Number
01
Drawing Number
2-A3.0

Office of
Facilities
Management

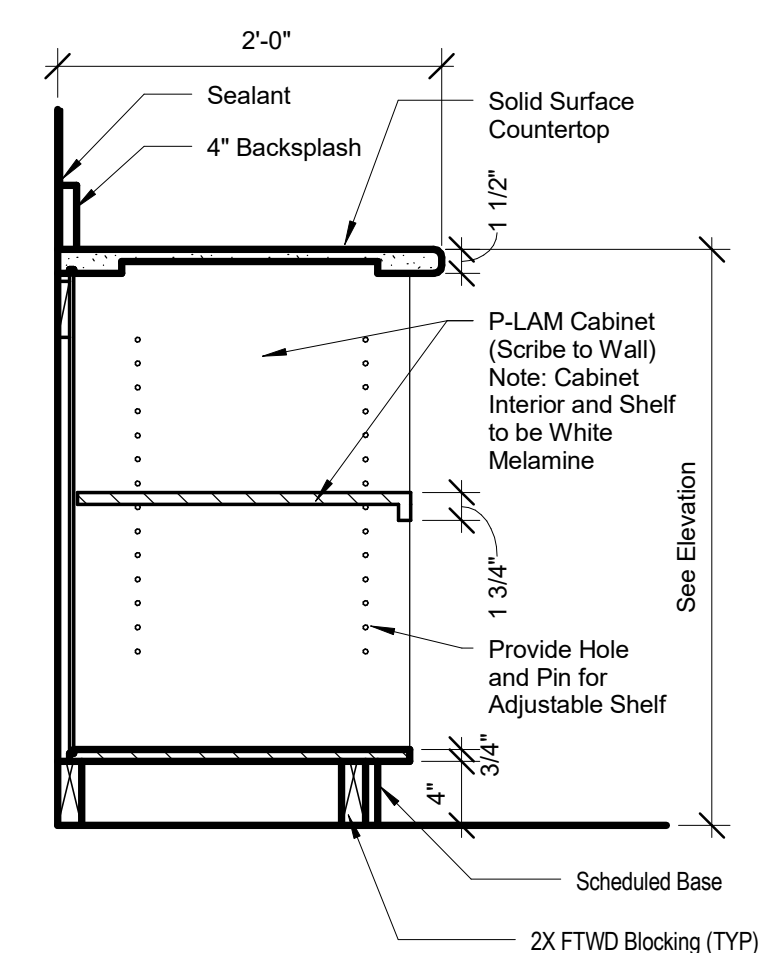




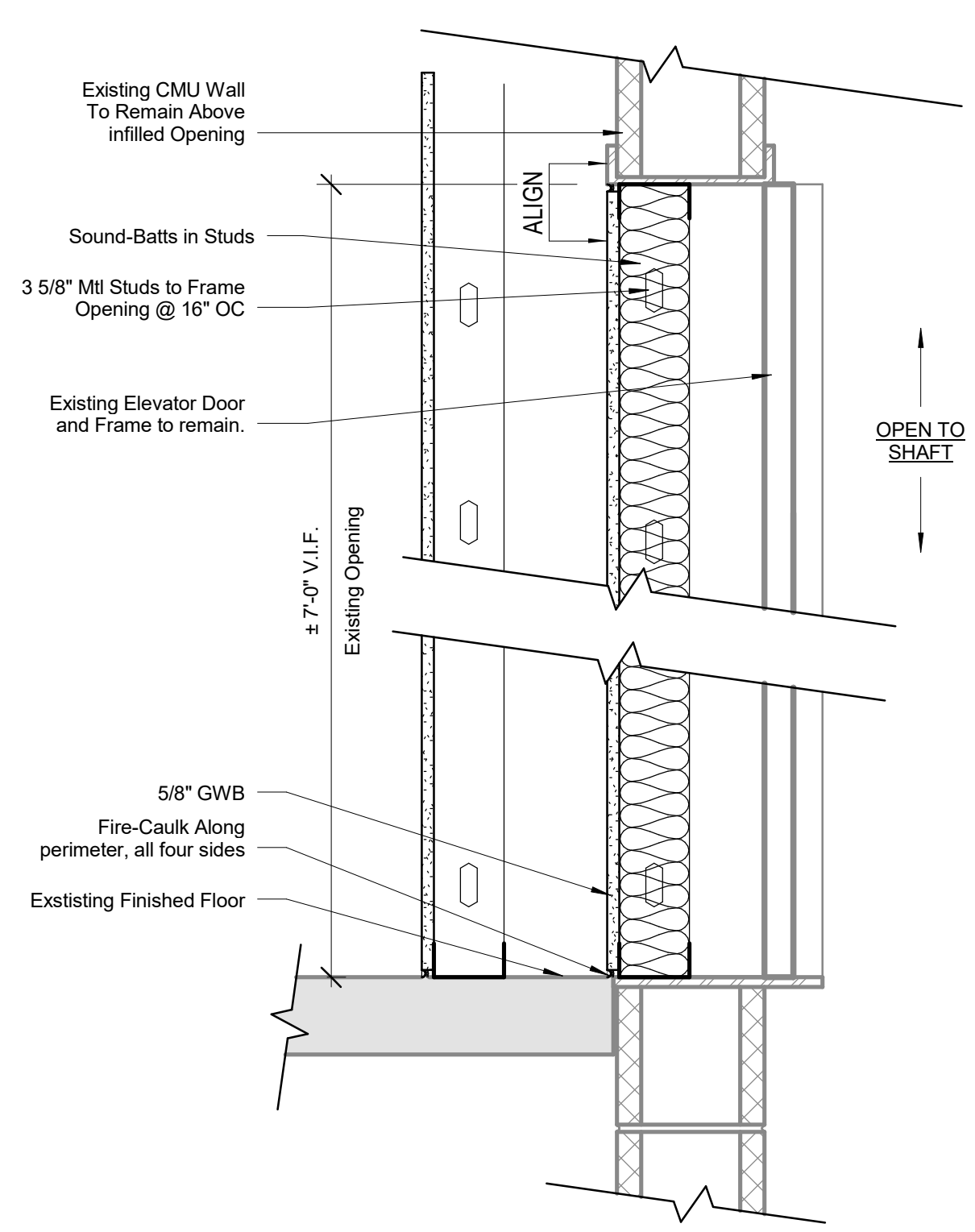
5 Elevation - Galley 626A
1/4" = 1'-0"



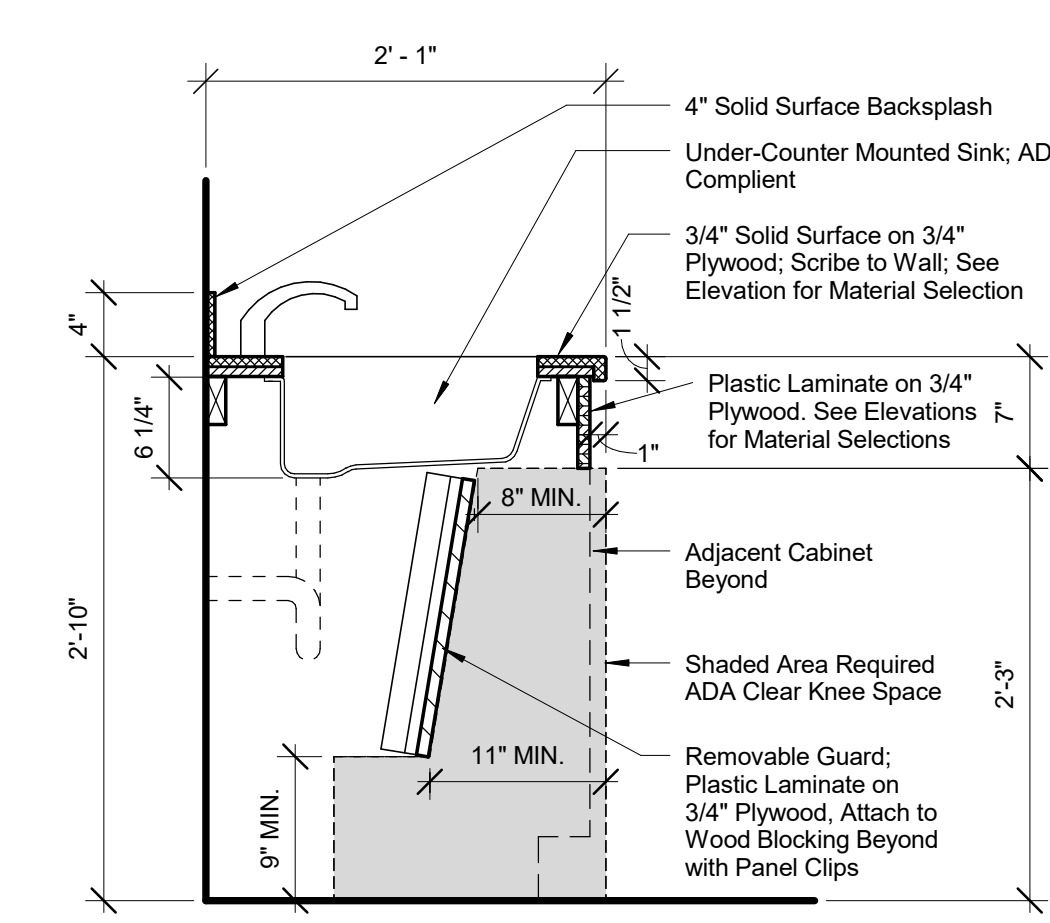
8 Elevation - ELT Conference 627 North



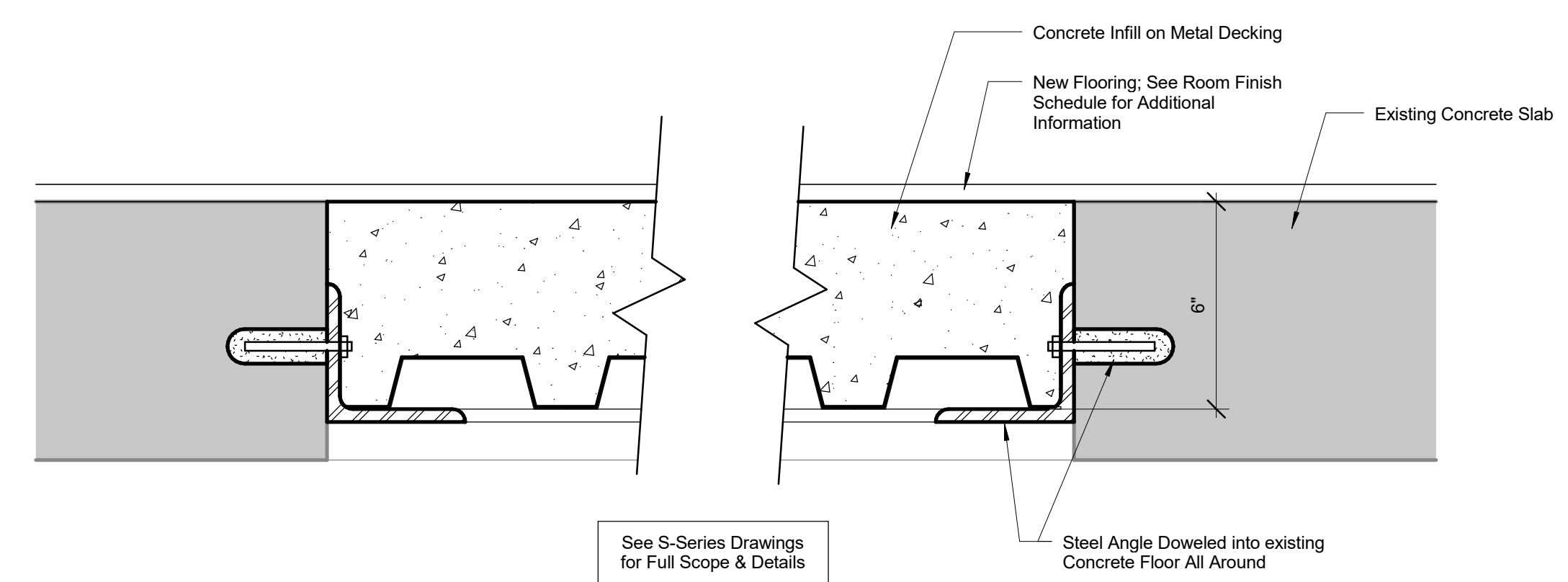
12 Detail - Base Cabinet w/ Open Shelves



14 Detail - Elevator Infill



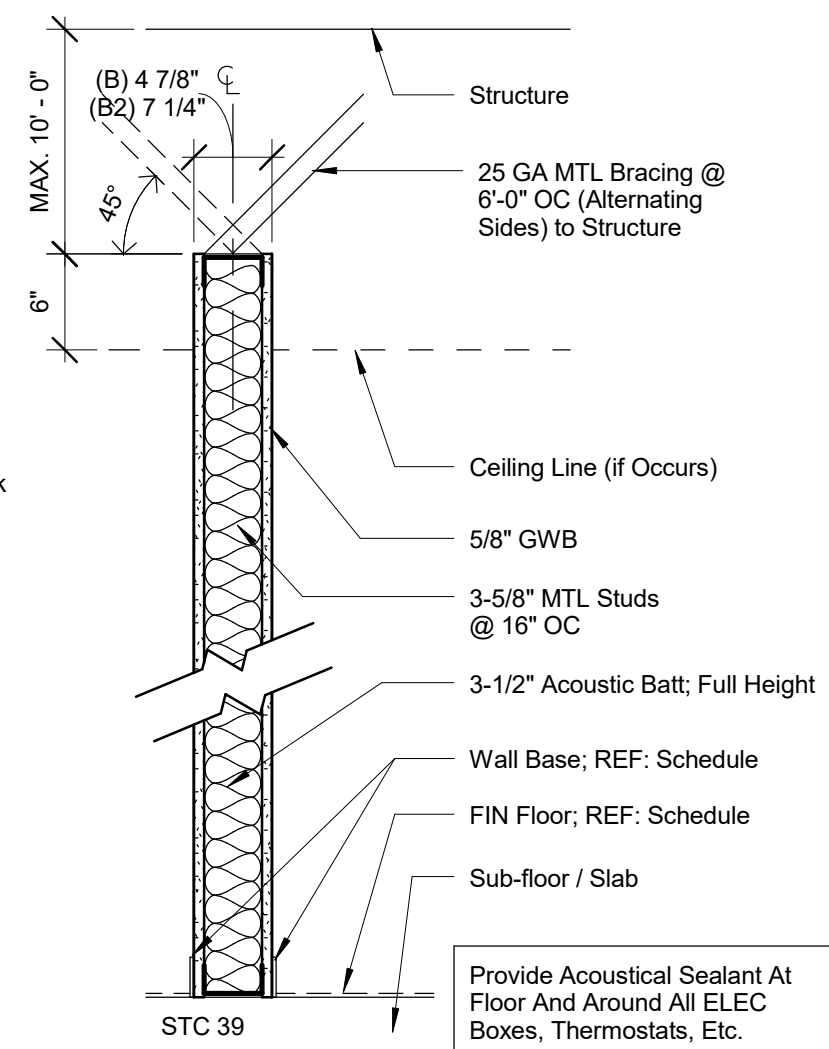
17 Detail - ADA Galley Sink



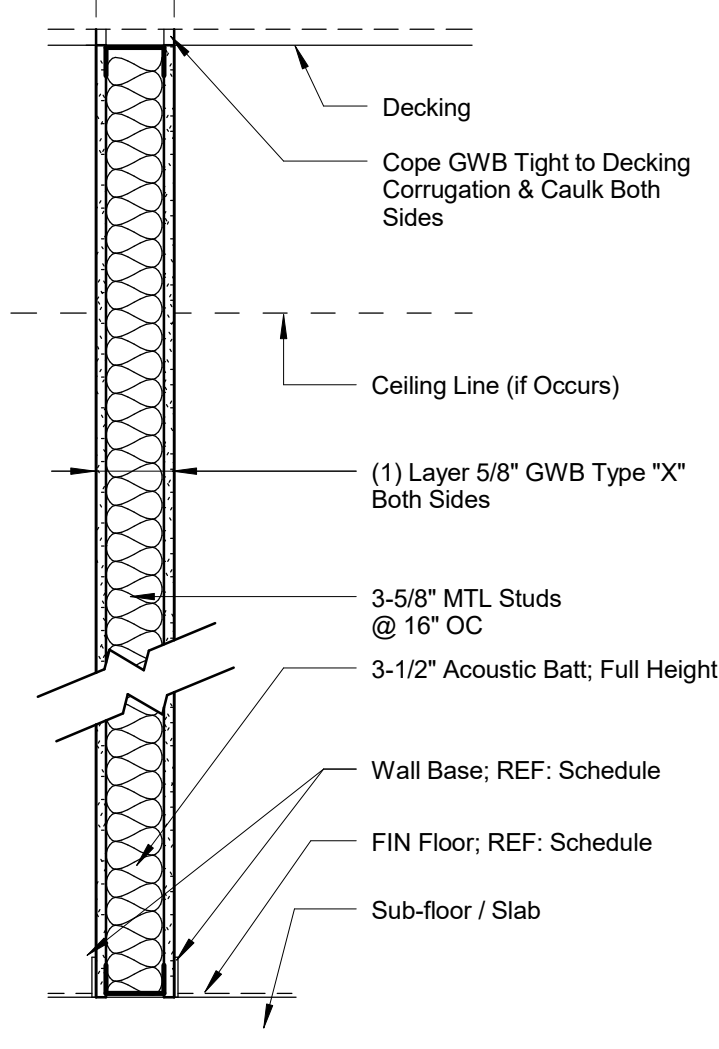
18 Detail - Floor Infill

Office of
Facilities
Management

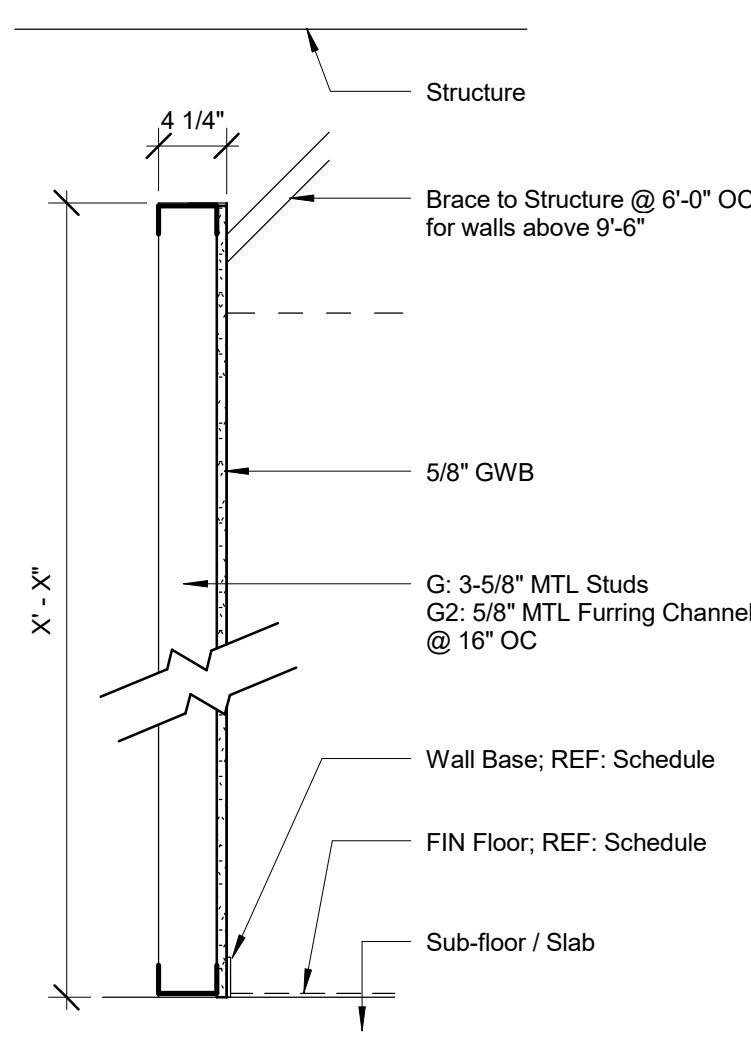
 Department of
Veterans Affairs



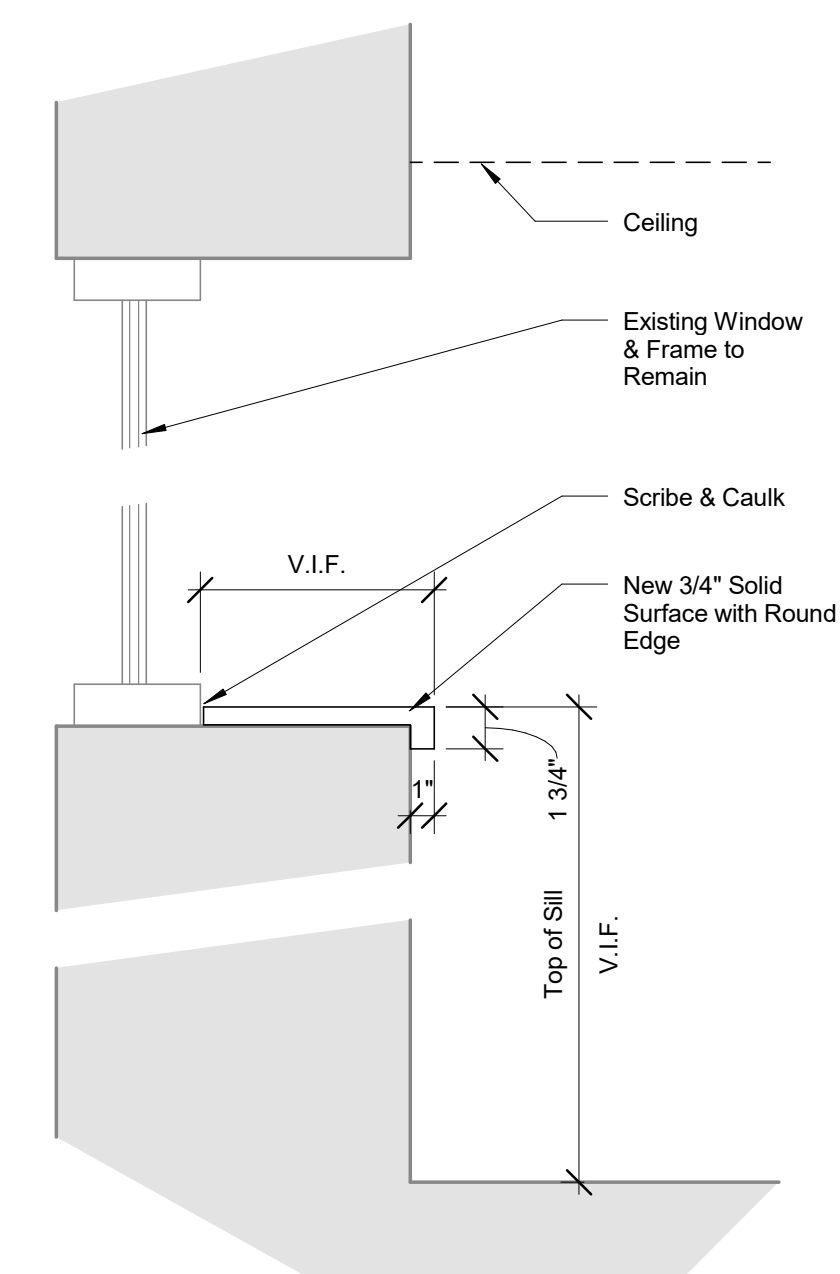
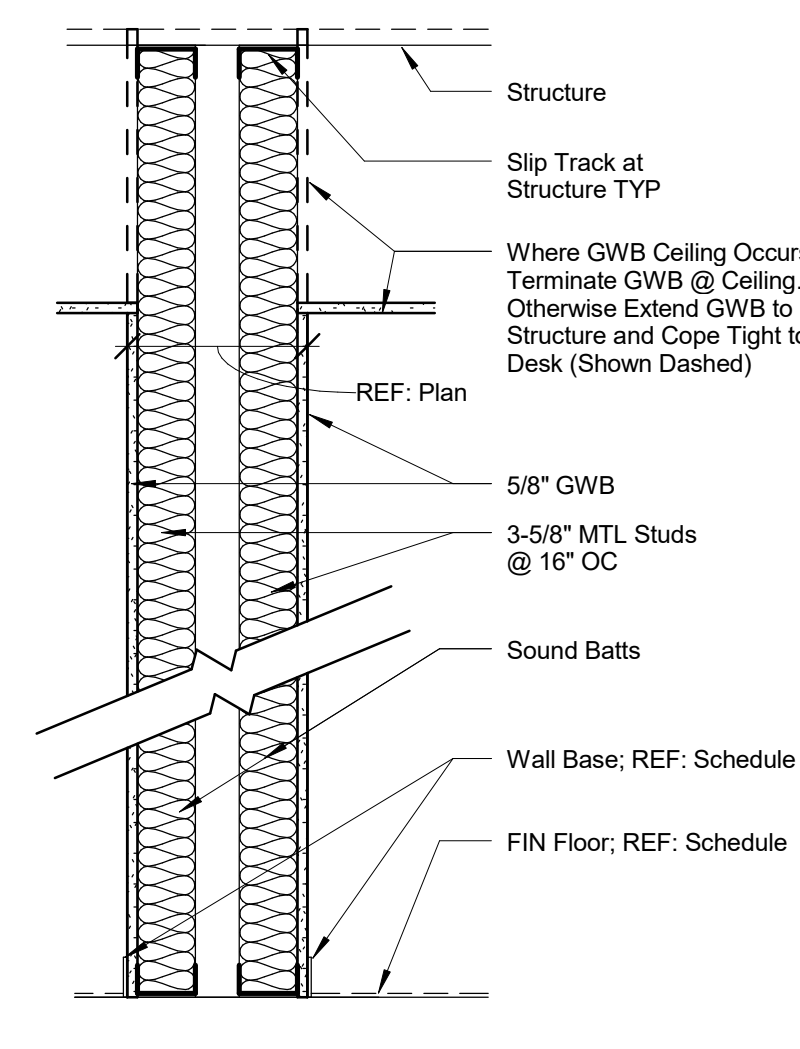
A2	Partition Type	
	Not to Scale	6" Studs



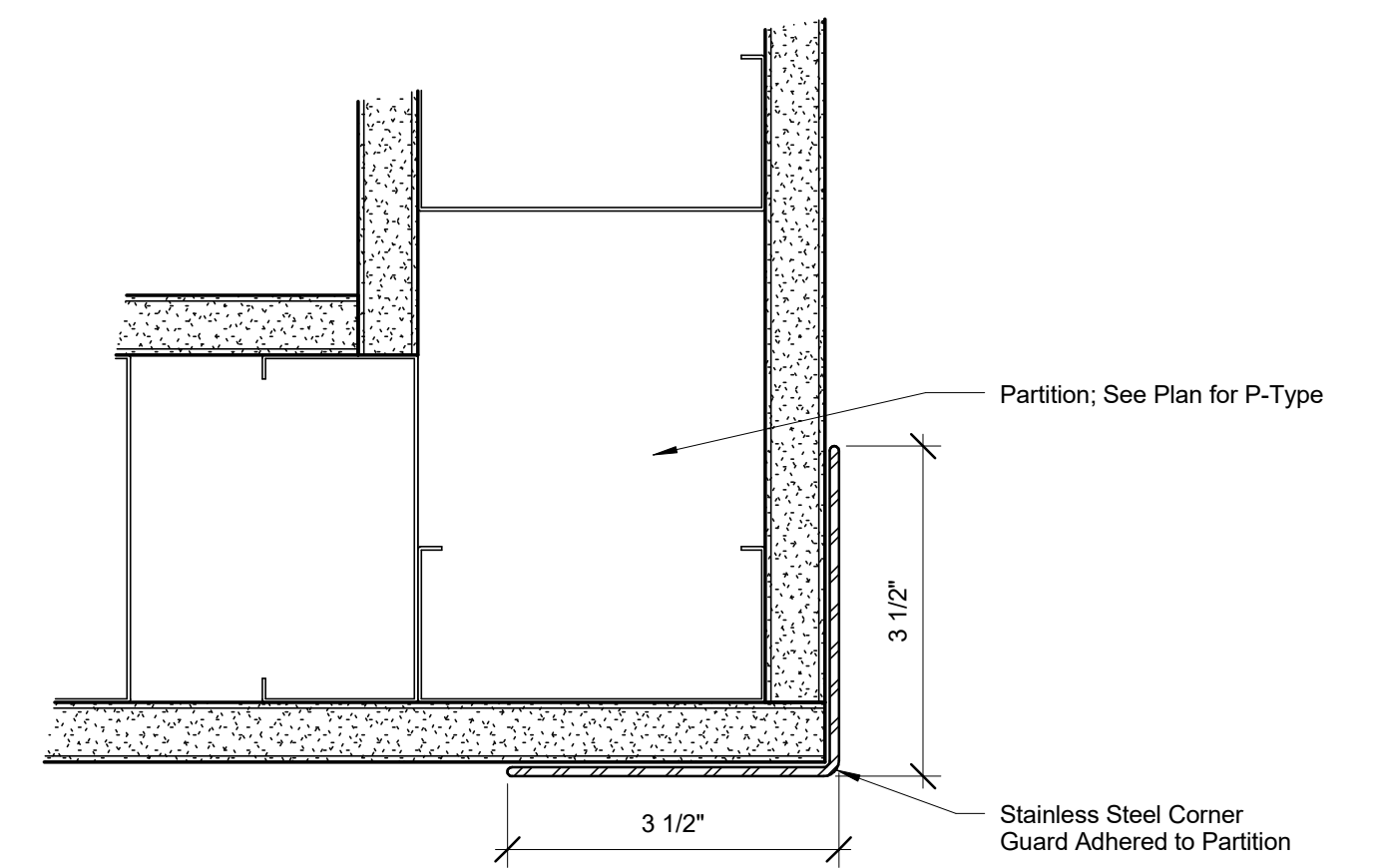
Partition Type
Not to Scale
1 Hour Smoke Compartment



G2	Partition Type	
	Not to Scale	5/8" MTL Furring Channel



5 Detail - New Window Sill @ Existing Window Area 2
1 1/2" = 1'-0"



6 Detail - Corner Guard @ Wall Protection
Area 2
6" = 1'-0"

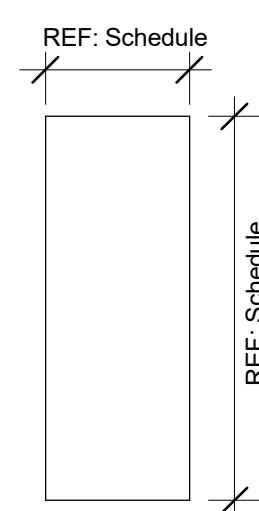
Partition Types

Door Schedule - Area 2												
Door								Frame				
Door Number	Door Type	Width	Size Height	Thickness	HW Group	MAT'L	Label	Remarks	Frame Type	Finish	Label	Remarks
620A	--	4'-0"	8'-0"		--	--	--	2	3	PAINTED	--	
620B	--	4'-0"	8'-0"		--	--	--	2	3	PAINTED	--	
624	F	3'-6"	7'-0"	1 3/4"	3	WD	--	--	2	PAINTED	--	
626	F	3'-6"	7'-0"	1 3/4"	3	WD	--	--	2	PAINTED	--	
627A	F	3'-6"	7'-0"	1 3/4"	3	WD	--	--	3	PAINTED	--	
627B	F	3'-6"	7'-0"	1 3/4"	3	WD	--	--	1	PAINTED	--	
628	--	4'-0"	7'-0"		--	--	--	2	3	PAINTED	--	
630	F	3'-6"	7'-0"	1 3/4"	4	WD	--	--	1	PAINTED	--	
631	F	3'-6"	7'-0"	1 3/4"	3	WD	--	--	1	PAINTED	--	
632	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	1	PAINTED	--	
632A	F	3'-6"	7'-0"	1 3/4"	6	WD	--	--	1	PAINTED	--	
633	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
634	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
635	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
636	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
637	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
638	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
639	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
640	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
641	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
642	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
643	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
644	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
645	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	1	PAINTED	--	
646	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
647	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
648	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	2	PAINTED	--	
650	F	3'-0"	7'-0"	1 3/4"	2	WD	--	--	1	PAINTED	--	
650A	F	3'-0"	7'-0"	1 3/4"	2	WD	--	--	1	PAINTED	--	
652	F	3'-6"	7'-0"	1 3/4"	4	WD	--	--	2	PAINTED	--	
652A	F	3'-0"	7'-0"	1 3/4"	2	WD	--	--	1	PAINTED	--	
656	F	3'-6"	7'-0"	1 3/4"	3	WD	--	--	2	PAINTED	--	
657	F	3'-6"	7'-0"	1 3/4"	1	WD	--	--	1	PAINTED	--	
658	--	3'-0"	7'-0"		--	--	--	2	3	PAINTED	--	
659	F	3'-0"	7'-0"	1 3/4"	2	WD	--	--	1	PAINTED	--	
687	F	3'-6"	7'-0"	1 3/4"	5	WD	--	--	1	PAINTED	--	
688	F	3'-6"	7'-0"	1 3/4"	5	WD	--	--	1	PAINTED	--	
689	F	3'-6"	7'-0"	1 3/4"	2	WD	--	--	1	PAINTED	--	
683	F	7'-8"	7'-0"	1 3/4"	7	HM	45 MIN	1	4	PAINTED	--	1
685	F	7'-8"	7'-0"	1 3/4"	7	HM	45 MIN	1	4	PAINTED	--	1

A.	Wood Door Panel: Marshfield Door Systems, Face Grade Veneer, Red Oak, Rift-Cut, Autumn 32-95 (Basis of Design)
B.	VA to Approve Card Readers used in this project
C.	Coordinate Electric Strikes with the current VA security testing and maintenance company (Currently Stanley Security Solutions or Tech Electronics)

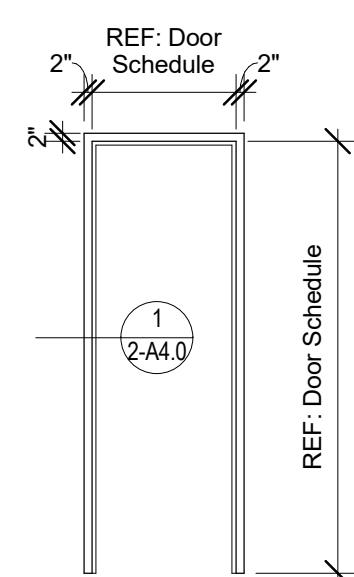
Door Remarks _____ Frame Remarks _____

Group 1	Group 2	Group 3	Group 4
3 Pair Butt Hinges	3 Butt Hinges	3 Butt Hinges	3 Butt Hinges
1 Office Lockset	1 Store Room Lockset	1 Office Lockset	1 Classroom Lockset
2 Silencers	2 Silencers	1 Surface Closes	1 Kickplate
2 Lever Handles	3 Silencers	1 Kickplate	3 Silencers
1 Kick plate	1 Wall Stop	3 Silencers	1 Wall Stop
1 Wall Stop		1 Power Supply	
		1 Electronic Strike	
		1 Proximity Card Reader	
Group 5	Group 6	Group 7	
3 Butt Hinges	3 Butt Hinges	2 Continuous Hinge	
2 Kickplate	1 Privacy Lockset	2 Egress Push Pad	
2 Silencers	2 Kickplate	2 Handle	
1 Push Pad	3 Silencers	4 Kickplate	
1 Pull Handle	1 Wall Stop	2 Smoke Seal	
1 Power Supply		2 Power Supply	
1 Assisted Opener		2 Hold Open (Link to Fire Suppression System)	
2 Operator Pads			
1 Wall Stop			

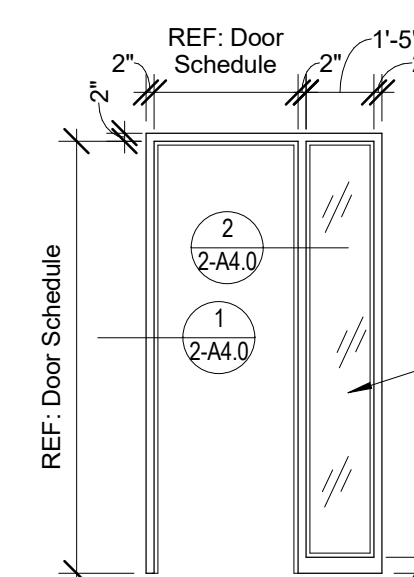


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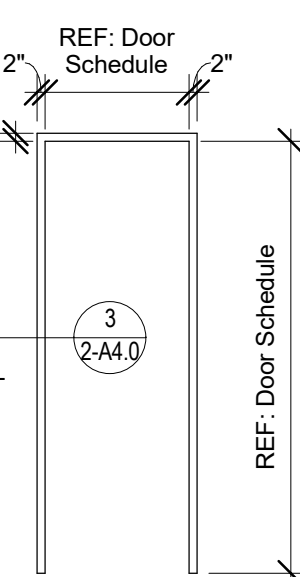
Door Types



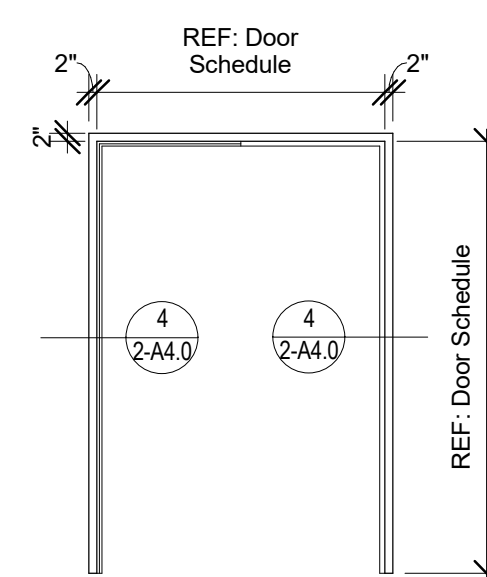
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2

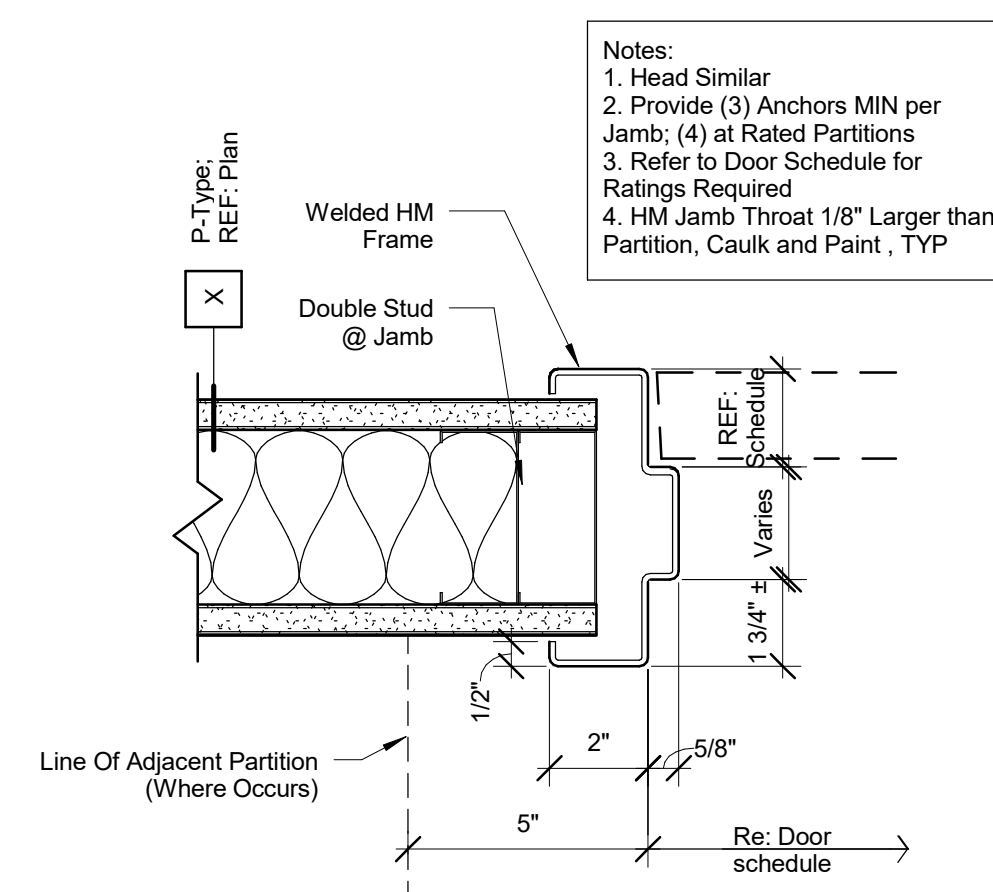


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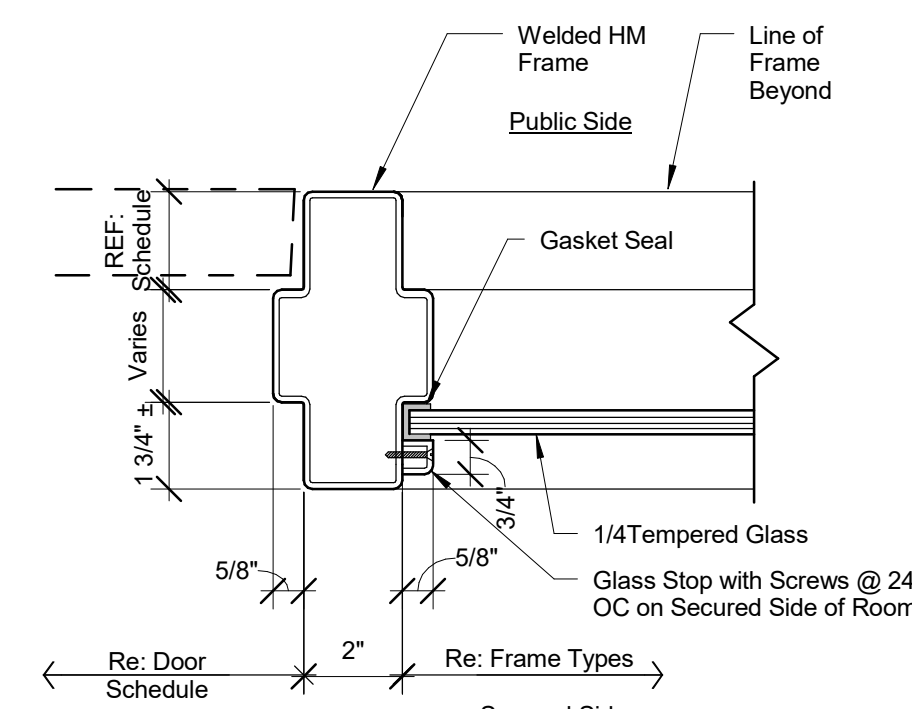


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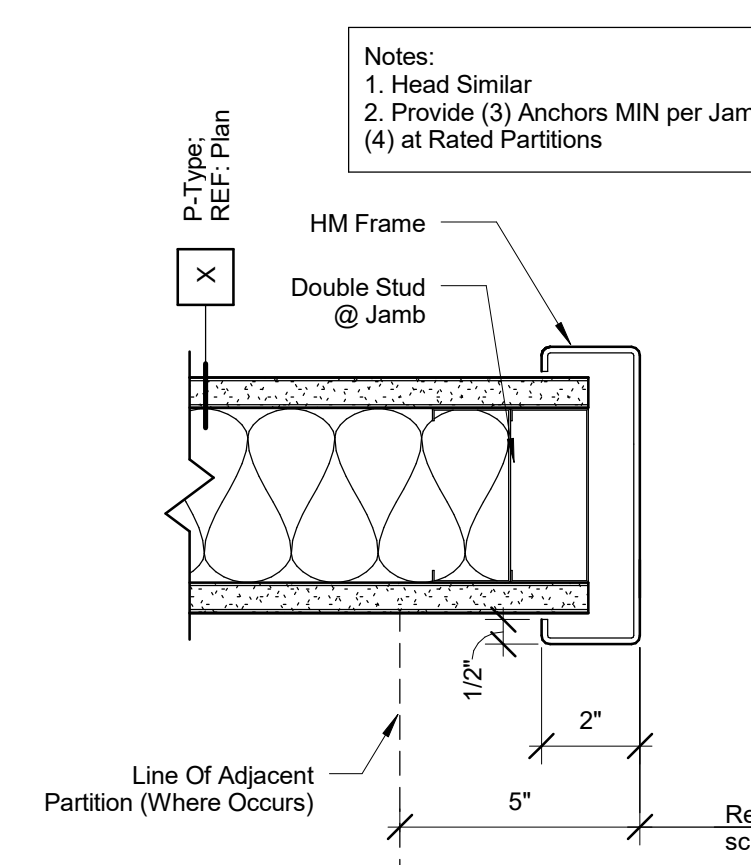
Frame Type



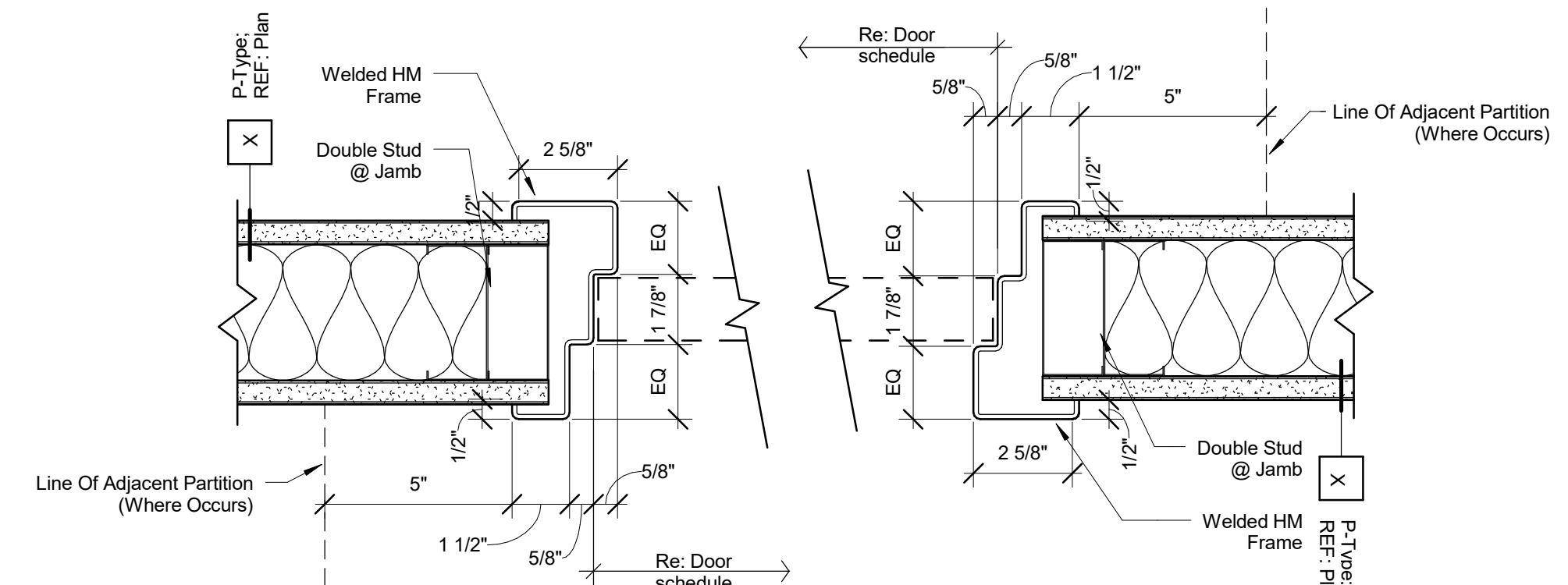
1 Detail - HM Door Jamb
3" = 1'-0"





2 Detail - HM Door Jamb @ Sidelite
3" = 1'-0"



3 Detail - HM Cased Opening



4 Detail - HM Double Egress Door Jamb

Revisions:		Date	CONSULTANTS:		<div><div>STATE OF MISSOURI HEATHER MARIE TAYLOR NUMBER 6-2997022-04 1/19/2018</div><div></div></div>		ARCHITECT/ENGINEERS:		Drawing Title Partition Types, Door Schedule & Details		Project Title Renovate Vacated Surgery, Ward 6		Project Number 589A4-16-102		Office of Facilities Management <div> Department of Veterans Affairs</div>							
							FoxArchitects One Memorial Drive Suite 1800 Saint Louis, MO 63102 Tel 314.621.4343 Fax 314.621.0261		<div><div>VOSB Veterans Owned Small Business</div><div>SSC Engineering, Inc. 1807 Dallas Avenue Chesterfield, Missouri 63005 Fax: 636.526.7877 info@sscengineering.com</div></div>		Building Number 01		Drawing Number 2-A4.0				Location 800 Hospital Drive Columbia, MO 65201		Date 01/19/2018		Checked BD/HT	

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

ALL WF (U.N.O.): A992 GRADE 50 (FY=50)
ALL ANGLE, BASE PLATES, CONN. PLATES (U.N.O.): A36 (FY=36)
STRUCTURAL PIPE: A53 (FY=35)
STRUCTURAL TUBE: A500 GRADE B (FY=46)
HEADED STUDS: AWS D1.1, TYPE B
THREADED ROD: A36
ANCHOR ROD: F1554 GR36 OR 55 PER DETAILS
BOLTS: A325 / F1552
ELECTRODES: MATCHING STRENGTH, 70KS. MIN.

2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERRECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.

3. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN. OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY AN ENGINEER, REGISTERED IN THE STATE OF MISSOURI. RETAINED BY THE FABRICATOR, COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE DETAIL.

A. ALL PLATE DIMENSIONS AND GRADES.
B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.
C. ALL HOLE SIZES AND SPACINGS.
D. NUMBER AND TYPES OF BOLTS: WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.
E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR THE CONNECTION.

DESIGN CALCULATIONS FOR TYPICAL BEAM CONNECTIONS AND ALL PRIMARY BRACING AND HANGER CONNECTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

4. CONNECTION DESIGN FORCES:

A. BEAMS, GREATER OF:

- 55% OF TOTAL ALLOWABLE UNIFORM LOAD CAPACITY FROM A.I.S.C 9TH EDITION TABLES FOR ALLOWABLE LOADS ON BEAMS, W_oL
- REACTIONS SHOWN ON DRAWINGS.
- 10 KIPS.

B. CONNECTION FORCE NOTATION:

P = AXIAL FORCE IN KIPS: (+) TENSION, (-) COMPRESSION
V OR T = SHEAR IN KIPS
M = MOMENT IN FOOT KIPS
T = TORSION IN FOOT KIPS

- LOADS SHOWN INCLUDE COMPENSATION FOR CODE PERMITTED STRESS INCREASES AND LOAD REDUCTIONS FOR CONNECTION DESIGN.

5. THE MINIMUM PLATE THICKNESS SHALL BE 3/8"

6. BOLTED CONNECTIONS:

- MINIMUM BOLT DIAMETER = 3/4"
- ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS. OVERSIZED HOLES AND LONG-SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON THE DRAWINGS.
- A307 BOLTS MAY BE USED WHERE INDICATED ON THE DRAWINGS.
- PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHES AND THEY SHALL NOT EXTEND INTO NOR PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.
- SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.

7. WELDED CONNECTIONS:

- WELDS ARE CONTINUOUS UNLESS NOTED.
- ALL FILLET WELDS: A.I.S.C. MINIMUM BUT NOT LESS THAN 1/8" UNLESS NOTED OTHERWISE.
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE LATEST "STRUCTURAL WELDING CODE" (A.W.S. D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE LATEST REQUIREMENTS OF TABLE 4.1.1 OF (A.W.S. D1.1).
- ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED OTHERWISE.

8. SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

9. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE OF HOLES, SLOTS, CUTS, ETC., AND ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

10. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE HAS BEEN PROPERLY ALIGNED AND WILL THEREBY BE STIFFENED.

11. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. ANCHOR BEAMS TO MASONRY WITH A GOVERNMENT-TYPE ANCHOR.

12. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.

13. EXPANSION BOLTS:

UNLESS NOTED OTHERWISE, EXPANSION BOLTS SHALL HAVE THE FOLLOWING MINIMUM ULTIMATE LOAD CAPACITIES WHEN DRILLED INTO CONCRETE WITH A MINIMUM DESIGN STRENGTH OF 4000 P.S.I. ULTIMATE LOAD CAPACITIES SHALL PROVIDE FOR A MINIMUM FACTOR OF SAFETY = 4.

DIAMETER	SHEAR	TENSION	EFFECTIVE EMBEDMENT
1/2"	3570 LBS.	4040 LBS	3 1/4"
3/4"	7635 LBS	5075 LBS	3 3/4"

14. TESTING OF EXPANSION BOLTS AND EPOXY ANCHORS.

- EXPANSION BOLTS: THE CONTRACTOR SHALL TEST 25% OF ALL EXPANSION BOLTS ACCORDING TO THE MANUFACTURER'S REQUIRED TORQUES
- EPOXY ANCHORS: THE CONTRACTOR SHALL TEST 25% OF ALL EPOXY ANCHORS WITH PULL TEST EQUAL TO 150% TIMES THE ALLOWABLE BOLT TENSILE CAPACITIES.
- NOTE: THE EPOXY ANCHORS ARE TO BE STORED IN A COOL LOCATION ACCORDING TO THE MANUFACTURES SPECIFICATIONS.

15. SEE MISC. NOTES FOR EPOXY / ADHESIVE ANCHORS.

EXISTING REWORK NOTES:

EXISTING CONDITIONS:

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, SUCH AS DIMENSIONS, ELEVATIONS, CONFIGURATION, AND DETAILS OF EXISTING STRUCTURES AND CONDITIONS WHERE THEY AFFECT NEW CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY IF ANY DEVIATIONS FROM ANTICIPATED CONDITIONS ARE DISCOVERED.

2. COORDINATION: A COMPLETE SET OF CONTRACT DOCUMENTS, THE CONTRACT DOCUMENTS ARE ONE COMPLETE, COMPREHENSIVE AND INCLUSIVE DOCUMENT CONSISTING OF THE AGGREGATE COLLECTION OF DRAWINGS AND SPECIFICATIONS FOR ALL OF THE DISCIPLINE DIVISIONS (E.G. SITE, CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, ETC.). NO SINGLE DISCIPLINE DIVISION IS AUTONOMOUS NOR DOES IT STAND ALONE FROM ANY OR ALL OTHER DISCIPLINE DIVISIONS.

3. VERIFY ALL DIMENSIONS, ELEVATIONS, DEPRESSIONS, INSERTS, EMBEDDED ITEMS, EQUIPMENT PADS AND SUPPORTS, OPENINGS, DETAILS, AND CONDITIONS BY CROSS-REFERENCING TO ARCHITECTURAL AND ALL OTHER DISCIPLINE SECTION DRAWINGS, PARTICULARLY CIVIL, MECHANICAL, AND ELECTRICAL SECTIONS.

4. SEE ARCHITECTURAL AND ALL OTHER DISCIPLINE SECTION DRAWINGS FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

5. STRUCTURAL DRAWINGS DO NOT SHOW ALL REQUIRED OPENINGS THROUGH STRUCTURAL MEMBERS.

6. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND ALL OTHER DISCIPLINE SECTION DRAWINGS.

7. NOTES REGARDING USE OF DRAWINGS: DRAWING SCALES ARE NOTED FOR REFERENCE ONLY. NOT ALL ITEMS ARE DRAWN TO SCALE, AND DRAWINGS SHOULD NOT BE SCALED TO OBTAIN DIMENSIONS OR ELEVATIONS NOT INDICATED.

MISCELLANEOUS:

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

4. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

5. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

7. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.

8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.

9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.

10. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITINGS OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

11. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ENGINEER BEFORE THE EFFECTED WORK PROCEEDS.

12. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.

13. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL DRAWINGS.

14. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN STATE WHERE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTORS.

15. EPOXY/ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE REQUIREMENTS PROVIDED BY THE EPOXY/ADHESIVE MANUFACTURER. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IF THE TEMPERATURES ARE NOT WITHIN THE PROPER RANGE.

STRUCTURAL ABBREVIATIONS:

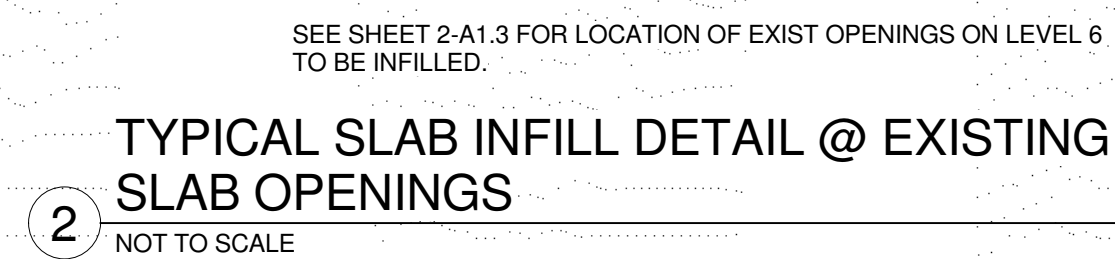
ADDITIONAL	ADDL.	KIP = 1000 lbs.	K
ALUMINUM	ALUM.	KNOCKOUT	KO
ANCHOR BOLT	A.B.	POUND	lb.
AND	&	LIGHT WEIGHT	LT. WT.
ANGLE	L	LIVE LOAD	L.L.
ARCHITECTURAL	ARCH.	LONG	LONG.
AT	@	LONGITUDINAL	LONG.
BASEMENT	BSMT.	LONG LEG HORIZONTAL	L.L.H.
BASE PLATE	B.P.	LONG LEG VERTICAL	L.L.V.
BEARING	BRG.	LONG WAY	L.W.
BETWEEN	BETWN.	LOW POINT	L.P.
BLOCK	BLK.	MANUFACTURER	MFG.
BOARD	BD	MARK	MR.
BOTTOM	BDT	MASONRY	MAS.
BOTTOM FACE	B/FACE	MASONRY OPENING	M.O.
BOTTOM OF METAL DECK	BOD	MATERIAL	MATL
BOTTOM OF FOOTING	BOF	MAXIMUM	MAX.
BOTTOM OF WALL	BOW	MECHANICAL	MECH
BRICK	BRK	METAL	MTL
BRICK SHELF	B/S	MINIMUM	MNL.
BRIDGING	BRDG.	MISCELLANEOUS	MISC.
BUILDING	BLDG.	MOMENT CONNECTION	M.C.
CANTILEVER	CANTL.	NEAR FACE	N.F.
CAST IN PLACE	C.I.P.	NOMINAL	NOM.
CEILING	CLG.	NOT IN CONTRACT	N.I.C.
CEMENT	CEM.	NOT TO SCALE	N.T.S.
CENTER LINE	CL	ON CENTER	O.C.
CENTER TO CENTER	C.C.	OPENING	O.PNG.
CENTERED	C.TRD.	OPPOSITE HAND	OP.H.
CLEAR	CL. or CLR.	OUTSIDE FACE	O.F.
CONCRETE	CONC.	PANEL	PNL.
COLUMN	COL.	PENTHOUSE	P.H.
CONNECTION	CONN.	PLATE	PL
CONSTRUCTION	CONST.	PLUMBING	PLBG
CONSTRUCTION JOINT	C.J.	PRECAST CONCRETE	P.C.
CONTINUOUS	CONT.	POCKET	PKCT.
CONTRACTOR	CONTR.	POST TENSION	P.T.
DEAD LOAD	D.L.	RADIUS	RAD.
DECK	DK.	RECTANGULAR	RECT.
DIAGONAL	DIAG.	REFERENCE	REF.
DIAMETER	DIA.	REFER TO	REF.
DIMENSION	DIM.	REINFORCING	REINF.
DOWELS	DWLS.	REQUIRED	REQD.
DOWN	DN.	REVISION	REV.
DRAWINGS	DWGS.	ROOM	RM
EACH	EA.	ROOF	RF.
EACH FACE	E.F.	SCHEDULE	SCHD.
EACH WAY	E.W.	SECTION	SECT.
ELECTRICAL	ELECT.	SHORT WAY	S.W.
ELEVATION	EL.	SIMILAR	SM.
ELEVATOR	ELEV.	SIMILAR	SL.
EMBEDDED	EMBED.	SLAB ON GRADE	S.O.G.
EQUAL	EQ	SPACE, SPACING, SPACES	S.P.A.
EQUIPMENT	EQUIP.	SPECIFICATIONS	SPECS
EXIST.	EXST.	SQUARE	SO
EXPANSION JOINT	E.J.	STANDARD	STD.
EXTERIOR	EXT.	STEEL	STL.
FAR FACE	F.F.	STRUCTURE OR STRUCTURAL	STRUC
FINISH	FIN.	SUPPORT	SUPPT.
FINISH FLOOR	FIN. FLR.	SYMMETRICAL	SYMM.
FLOOR	FL.	THICKNESS	THK.
FOOTING	FTG.	TOP FACE	T.FACE
FOUNDATION	FND.	TOP OF BRICK LEDGE	TBL
FRAMING	FRMG.	TOP OF FOOTING	TOF
GALVANIZED	GALV.	TOP OF CONCRETE	TOC
GAUGE	GA.	TOP OF PIER	TOP
GENERAL CONTRACTOR	G.C.	TOP OF JOIST	T/OJST
GIRDER	GIR.	TOP OF SLAB	TSL
GRADE	GR.	TOP OF STRUCTURAL STEEL	TOS
GYPSUM	GYP.	TOP OF WALL	TOW
HEIGHT	HT.	TRUSS BEARING	TBRG.
HIGH POINT	H.P.	TYPICAL	TYP.
HORIZONTAL	HORIZ.	UNLESS NOTED OTHERWISE	U.N.O.
INSIDE FACE	I.F.	VERTICAL	VERT
INTERIOR	INT.	VERIFY IN FIELD	VF
JOINT	JT. or JNT.	WIND BRACE	W.B.
JOIST	JST.	WELDED WIRE FABRIC	W.W.F.
		WITH	W/

STRUCTURAL SHEET INDEX 303

SHEET NUMBERS	SHEET NAME
2-S0.1	STRUCTURAL GENERAL NOTES
2-S2.1	STRUCTURAL FRAMING PLANS AND DETAILS

BID DOCUMENTS

Revisions:	Date	CONSULTANTS:	MICHAEL VALERE VANDE VELDE PE-2004017260	ARCHITECT/ENGINEERS:	Drawing Title STRUCTURAL GENERAL NOTES	Project Title Renovate Vacated Surgery, Ward 6	Project Number 589A4-16-102	Office of Facilities Management
						Location 800 Hospital Drive Columbia, MO 65201	Building Number 01	
						Date 01/19/18	Drawing Number 2-S0.1	
						Checked MVV	Drawn JMH	

CONSULTANTS:

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one eighth inch = one foot
SSC 201502

MECHANICAL ABBREVIATIONS

AF	ABOVE FINISHED FLOOR
AC	AIR HANDLING UNIT
APD	AIR PRESSURE DROP(IN WC)
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNITS
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEAN OUT
CD	CONDENSATE DRAIN
CONN	CONNECTION
COR	CONTRACTING OFFICER REPRESENTATIVE
CV	CONTROL VALVE
DIA	DIAMETER
DB	DRY BULB TEMPERATURE
DSD	DUCT SMOKE DETECTOR SUPPLY
DSR	DUCT SMOKE DETECTOR RETURN
E	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EFF	EFFICIENCY
EF	EXHAUST FAN
ERC	ENERGY RECOVERY COIL
FRM	FEET PER MINUTE
FT	FEET
FAT	FLOAT & THERMOSTATIC TRAP
FLA	FULL LOAD AMP'S
GALV	GALVANIZED
GSS	GLYCOL SUPPLY PIPING
GCR	GLYCOL RETURN PIPING
GH	GRAVITY HOOD
H	HUMIDIFIER
HA	HAZARDOUS ASBESTOS ABATEMENT
HR	HOOR
HP	HORSEPOWER
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
HX	HEAT EXCHANGER
IB	INVERTED BUCKET TRAP
IH	INDUSTRIAL HYGIENIST
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LVR	LEAVING WATER RETURN
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTU/HR
MC	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MIN	MINIMUM
MPS	MEDIUM PRESSURE STEAM
MPR	MEDIUM PRESSURE CONDENSATE RETURN
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
POC	POINT OF CONNECTION
PICV	PRESSURE INDEPENDENT CONTROL VALVE
PD	PRESSURE DROP
RA	RETURN AIR
RF	RELIEF FAN
RH	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SUPPLY AIR GRILL
SA	SUPPLY AIR
SF	SUPPLY FAN
SW	SWITCH
STL	STEEL
TC	TEMPERATURE CONTROLLER
TSP	TOTAL STATIC PRESSURE
TXV	THERMAL EXPANSION VALVE
VA	VETERAN AFFAIRS
VAV	VARIABLE AIR VOLUME BOX (R= RETURN, E=EXHAUST)
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP(FT. H2O)
W.C.	WATER COLUMN
X	EXISTING

MECHANICAL SYMBOLS LEGEND		
	AIR DEVICE TAG	S = SUPPLY R = RETURN E = EXHAUST X = EXISTING
	EQUIPMENT IDENTIFICATION	
	CONDENSATE DRAIN	
	CHILLED WATER SUPPLY	
	CHILLED WATER RETURN	
	LOW PRESSURE STEAM SUPPLY	
	LOW PRESSURE STEAM RETURN	
	HEATING HOT WATER SUPPLY	
	HEATING HOT WATER RETURN	
	HEATING/CHILLED WATER LOOP	
	DEMO PIPE OR EQUIPMENT	
	POINT OF CONNECTION NEW TO EXISTING	
	OPPOSED BLADE DAMPER	
	THERMOSTAT / TEMPERATURE SENSOR	
	HUMIDITY SENSOR	
	PRESSURE SENSOR	
	BOTTOM OF DUCT ELEVATION	
	RECTANGULAR DUCT (FIRST NUMBER IS SURFACE SHOWN-DIMENSIONS REPRESENT NET FREE AREA)	
	ROUND DUCT	
	RECTANGULAR TO ROUND TRANSITION	
	TRANSITION	
	INCLUDED RISE (R) OR DROP (D) ARROW IN DIRECTION OF CHANGE	
	TEMPORARY SUPPLY FLEXIBLE DUCTWORK	
	SUPPLY AIR UP OR IN SECTION	
	RETURN/EXHAUST OR OUTSIDE AIR UP OR IN SECTION	
	SUPPLY AIR DOWN OR AWAY	
	RETURN/EXHAUST OR OUTSIDE AIR DOWN OR AWAY	
	RECTANGULAR ELBOW WITH TURNING VANES	
	VOLUME/BALANCE DAMPER	
	MOTORIZED DAMPER	
	FIRE DAMPER/SMOKE DAMPER/COMB. FIRE SMOKE DAMPER	
	ROUND TAP WITH DAMPER (BOTTOM)	
	CEILING MOUNTED, SQUARE SUPPLY AIR DIFFUSER 4-WAY UNLESS OTHERWISE INDICATED (ARROW INDICATES DIRECTION OF THROW)	
	CEILING MOUNTED RETURN AIR GRILLE	
	GATE VALVE	
	GLOBE VALVE	
	CHECK VALVE	
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)	
	WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR	
	FLEXIBLE CONNECTION	
	ANGLE GLOBE VALVE	
	BUTTERFLY VALVE	
	BALL VALVE	
	MODULATING CONTROL VALVE	
	TWO POSITION CONTROL VALVE	
	THREE-WAY MODULATING CONTROL VALVE	
	THREE-WAY TWO POSITION CONTROL VALVE	
	PRESSURE REGULATING VALVE	
	PRESSURE SAFETY VALVE	
	AUTOMATIC BALANCING CONTROL VALVE	
	WATER BALANCE DEVICE	
	CIRCUIT SETTER VALVE	
	GATE VALVE WITH GLOBE-VALVED BYPASS	
	PLUG VALVE	
	PRESSURE REDUCING VALVE (PRV)	
	DUCT MOUNTED SMOKE DETECTOR	

MECHANICAL SYMBOLS LEGEND (CONT.)	
	RECTANGULAR TAP WITH DAMPER (BOTTOM)
	ROUND DUCT UP OR IN SECTION
	ROUND DUCT ON OR AWAY
	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL
	THERMOSTATIC TRAP
	THERMOMETER
	PRESSURE GAUGE
	FLOW ELEMENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	QUICK-COUPLE HOSE CONNECTOR

GENERAL NOTES:

- CONSTRUCTION MATERIALS AND INSTALLATION METHODS PROVIDED AND PERFORMED BY ALL CONTRACTORS SHALL BE IN COMPLIANCE WITH VAMC FACILITY OPERATIONS, NFPA, ICRA, ILSM, VA SPECIFICATIONS, AND AS FURTHER DESCRIBED IN THIS SCOPE.
- RECORD SITE AND UTILITY DRAWINGS PROVIDED BY THE VAMC ARE FOR REFERENCE ONLY.
- PAIN ALL EXPOSED NEW AND EXISTING PIPING TO MATCH WALL FINISH UNLESS OTHERWISE NOTED.
- THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) WILL PERFORM FIELD VERIFICATION AS REQUIRED FOR THE DURATION OF THE PROJECT TO MONITOR PROJECT PROGRESS.
- UTILITY SHUT DOWNS WILL BE COORDINATED 72 HOURS IN ADVANCE WITH IPT (INTEGRATED PROJECT TEAM) INCLUDING: COR, VA FACILITY OPERATIONS, AND GENERAL CONTRACTOR.
- CONTRACTOR SHALL FIELD VERIFY AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE PERFORMANCE OF THE WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY THE COR IMMEDIATELY IF SIGNIFICANT DISCREPANCIES OR OMISSIONS ARE DISCOVERED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND NOTIFY COR OF ALL DISCREPANCIES, IF ANY, FOUND PRIOR TO PLACEMENT OF ANY COMPONENTS.
- THE CONTRACTOR WILL TAKE ALL NECESSARY PRECAUTIONS INCLUDING THE BUILDING AND MAINTENANCE OF DUST TIGHT PARTITIONS, DAILY VACUUMING, SWEEPING, AND PROVISION OF CLEAN FLOOR MATS AT THE PROJECT ENTRANCES, TO PREVENT THE INFILTRATION OF DIRT AND DUST FROM THE CONSTRUCTION AREAS INTO THE OWNER OCCUPIED AREAS.
- IF THE PROJECT AREA(S) AFFECTED BY THE PROJECT INCLUDE EXISTING EQUIPMENT, SURFACES, FINISHES, MATERIALS, ETC. NOT TO BE REMOVED, THE CONTRACTOR MUST PROTECT THIS EQUIPMENT FROM DUST, DEBRIS, DAMAGE, ETC.. THE CONTRACTOR MUST ALSO CLEAN THESE ITEMS/SURFACES TO THE ORIGINAL CONDITION FOUND AT THE START OF THE PROJECT PRIOR TO FINAL INSPECTION.
- PATCH ALL FINISHES WHERE DISTURBED BY THE WORK AND WHERE UNFINISHED SURFACES HAVE BEEN EXPOSED BY DEMOLITION. PATCHING MUST MATCH ADJACENT MATERIALS, COLORS, AND FINISHES. WALL SURFACES THAT ARE PATCHED SHALL BE FINISHED (PAINT, VINYL WALL COVERING, ETC.) REPLACED FROM CORNER TO CORNER AND FLOOR TO CEILING.
- CORRIDOR WALLS AND PLUMBING PARTITIONS SHALL BE CONSIDERED 1 HOUR FIRE / SMOKE RATED WALLS AND NEW OR EXISTING PENETRATIONS MUST BE SEALED ACCORDINGLY WITH APPROVED FIRE STOPPING MATERIAL. THE SAME DAY THE PENETRATION IS MADE OR DISCOVERED. ALL FLOOR SLABS, VERTICAL SHAFTS AND STAIRWELLS SHALL BE CONSIDERED 2 HOUR RATED SEPARATIONS AND SHALL BE SEALED ACCORDINGLY IN THE MANNER LISTED HEREIN. PENETRATIONS THROUGH THE EXTERIOR WALLS SHALL BE SEALED WATERIGHT.
- WHENEVER EXISTING EQUIPMENT, PIPING, ETC. ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC., UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS, AND CEILINGS SHALL BE FINISHED TO MATCH ADJUVING SURFACES.
- UTILITY WORK THAT WILL REQUIRE A SHUTDOWN OF EXISTING SERVICE WILL BE DONE AT TIMES OTHER THAN NORMAL WORKING HOURS AT NO ADDITIONAL COST TO THE GOVERNMENT. WORK MUST BE SCHEDULED WITH THE COR.
- WORK THAT MUST OCCUR IN OCCUPIED AREAS OF THE MEDICAL CENTER OR DISRUPT A MEDICAL CENTER FUNCTION, WILL BE DONE AT TIMES OTHER THAN NORMAL WORKING HOURS AT NO ADDITIONAL COST TO THE GOVERNMENT. WORK MUST BE SCHEDULED WITH THE COR.
- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS TO ELIMINATE CONFLICTS AND/OR INTERFERENCES. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC., REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- CONTRACTOR SHALL NOT INSTALL PIPING, OR OTHER OBSTRUCTIONS UNDER ADJACENT HVAC EQUIPMENT THAT WILL ELIMINATE OR OBSTRUCT ACCESS TO COILS, MOTORS, VALVES, SWITCHES, PANELS, ETC.
- BEFORE THE CONTRACTOR BEGINS WORK, CONTRACTOR SHALL RECORD ANY EXISTING SYSTEM INFORMATION SUCH AS TEMPERATURE, FLOW RATE, PRESSURE, OR ANY OTHER INFORMATION NECESSARY FOR HIM TO RETURN THE SYSTEM TO THE EXISTING CONDITION. UNLESS NOTED OTHERWISE IT IS ASSUMED THAT ALL SYSTEMS (HVAC, ELECTRICAL, PLUMBING, ETC.) ARE WORKING PROPERLY IN EVERY MANNER AT THE BEGINNING OF THE PROJECT. THE CONTRACTOR'S RECORDED MEASUREMENTS MUST BE SUBMITTED TO THE COR FOR REVIEW AND ACCEPTANCE BEFORE ANY DEMOLITION OR OTHER RELATED WORK CAN PROCEED.
- CONTRACTOR MUST PROVIDE HIS OWN EQUIPMENT FOR MOVING OF MATERIALS, EQUIPMENT AND TRASH. THIS INCLUDES CARTS FOR REMOVAL OF DEMOLITION MATERIALS, PALLET JACKS FOR EQUIPMENT MOVING, TWO OR FOUR WHEEL CARTS FOR EQUIPMENT TRANSFER, ETC. CONTRACTOR MAY NOT BORROW VA OWNED EQUIPMENT FOR THIS PURPOSE.
- SEVERE NOISE PRODUCING WORK WILL NOT BE ALLOWED DURING NORMAL WORKING HOURS AND MUST BE SCHEDULED WITH THE COR FOR OTHER TIMES. THIS INCLUDES, FITT-K-HAMMERING CONCRETE, SAW-CUTTING CONCRETE, REPETITIVE HAMMER DRILLING OF CONCRETE, ETC.
- ALL CONTRACTOR PERSONNEL ARE REQUIRED TO OBTAIN COR ISSUED BADGE TO BE WORN AT ALL TIMES WHILE ON VA PROPERTY. PRIOR TO BADGE BEING ISSUED, CONTRACTOR PERSONNEL ARE REQUIRED TO ATTEND SAFETY AND PROTOCOL TRAINING ADMINISTERED BY THE COR AND FACILITY SAFETY OFFICER.
- ALL WORK REQUIRING SUBMITTALS MUST HAVE AN APPROVED SUBMITTAL PRIOR TO BEGINNING WORK. THE VA IS NOT RESPONSIBLE FOR REWORK REQUIRED AS THE RESULT OF AN UNAPPROVED SUBMITTAL.
- DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EACH SYSTEM. BECAUSE OF THE SMALL SCALE OF DRAWINGS IT IS NOT POSSIBLE TO SHOW OR INDICATE ALL BRANCHES, OFFSETS, FITTINGS, BOXES, AND ACCESSORIES WHICH MAY BE REQUIRED.
- LOCATIONS OF NEW EQUIPMENT, PIPING, AND ASSOCIATED ITEMS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL FIELD COORDINATE LOCATIONS AND ELEVATIONS FOR THE WORK, INCLUDING CONNECTIONS TO EXISTING WORK. REQUIRED OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC. TO HAVE A COMPLETE AND FUNCTIONAL SYSTEM ARE INCLUDED IN THE SCOPE OF THE WORK. NOTIFY THE COR IMMEDIATELY IF SIGNIFICANT DISCREPANCIES OR OMISSIONS ARE DISCOVERED THAT AFFECT PERFORMANCE OF THE WORK.
- LOCATIONS OF EXISTING DUCTWORK, ELECTRICAL, MECHANICAL, PIPING, CABLE TRAYS, ETC., ARE NOT NECESSARILY SHOWN ACCURATELY ON THE DRAWINGS. FIELD VERIFY THE LOCATIONS OF EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. AFFECTING THE PERFORMANCE OF THE WORK. NOTIFY THE COR IMMEDIATELY IF SIGNIFICANT DISCREPANCIES OR OMISSIONS ARE DISCOVERED THAT AFFECT PERFORMANCE OF THE WORK.
- WHEN WORKING IN OCCUPIED AREAS OF THE MEDICAL CENTER THE CONTRACTOR CANNOT LEAVE TOOLS, EQUIPMENT, LADDERS, ETC., UNATTENDED WHERE THEY ARE ACCESSIBLE TO PATIENTS, STAFF, VISITORS, ETC. CEILING TILES AND CEILING ACCESS PANELS MUST ALSO BE REPLACED WHEN UNATTENDED, FOR SAFETY REASONS.
- CONTRACTOR IS MADE AWARE THAT THERE ARE NO STORAGE AREAS AVAILABLE FOR CONTRACTOR'S USE AT THE MEDICAL CENTER. OUTSIDE THE CONTRACTOR'S WORK AREA, AND ABSOLUTELY NO ACCESSIBLE STORAGE AREAS.
- WATER OR LIQUIDS MUST NOT BE ALLOWED TO COME INTO CONTACT WITH NEW OR EXISTING DRYWALL FROM CONSTRUCTION RELATED ACTIVITIES. REMOVE AND REPLACE ANY DRYWALL THAT HAS COME INTO CONTACT WITH WATER OR OTHER LIQUIDS.
- CONTINUITY OF ALL SERVICES TO AND FROM THE FACILITIES IN THE EXISTING BUILDING SHALL BE MAINTAINED WITHOUT INTERRUPTION, EXCEPT FOR SUCH PERIODS OF TIME WHICH THE VA MAY DESIGNATE. IF TEMPORARY CONNECTIONS, ETC. ARE NECESSARY TO ASSURE THE CONTINUITY OF SERVICE, THEY SHALL BE FURNISHED WITHOUT ADDITIONAL CHARGE TO THE VA AND SHALL BE REMOVED WHEN NO LONGER NECESSARY.
- ALL EXISTING PIPING AND ASSOCIATED HANGERS MADE ABANDONED BY THIS PROJECT OR FOUND TO BE ABANDONED DURING DEMOLITION SHALL BE REMOVED, INCLUDING HANGERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR.
- ALL OPEN FLOOR PENETRATIONS EXPOSED BY DEMOLITION OF PIPING SHALL BE SEALED TO MAINTAIN FIRE RATING.
- CRANES CANNOT BE PLACED IN VA PROPERTY DURING NORMAL WEEKDAY HOURS. SCHEDULE DURING WEEKEND HOURS IN DAYLIGHT.

MECHANICAL GENERAL DEMOLITION NOTES:

- THESE GENERAL DEMOLITION NOTES APPLY TO ALL DEMOLITION WORK.
- DEMOLISH PIPING, DUCTWORK, AND EQUIPMENT SHOWN BOLD-DASHED OR CROSS HATCHED.
- CONTRACTOR SHALL USE CAUTION WHEN REMOVING PIPING, EQUIPMENT AND FIXTURES TO AVOID DAMAGE TO ELECTRICAL WIRING THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO PIPING.
- WHEREVER EXISTING EQUIPMENT, PIPING, ETC., ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC., UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJUVING SURFACES.
- WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
- SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION. REFER TO MEP AND SPRINKLER DEMOLITION PLANS FOR MEP AND SPRINKLER DEMOLITION.
- THE HAZARDOUS ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY ACMH (ASBESTOS CONTAINING MATERIALS, PCBs OR OTHER HAZARDOUS MATERIALS) PRESENTLY EXISTING WITHIN THE AREAS AFFECTED BY THE PROJECT SCOPE.
- MEP DEMOLITION WORK: VERIFY EXISTING SERVICES TO REMAIN. ALL NECESSARY CARE SHALL BE TAKEN DURING DEMOLITION TO PREVENT DAMAGE TO PLUMBING, ELECTRICAL, AND MECHANICAL SYSTEMS TO REMAIN. DUCTWORK, PIPING, ELECTRICAL LINES, AND PLUMBING SERVING OTHER AREAS SHALL PROVIDE FOR UNINTERRUPTED SERVICE TO THOSE AREAS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE OWNER. COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR AND C.O.R.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWING AND DETAILS FOR FLOOR PATCHING REQUIREMENTS.

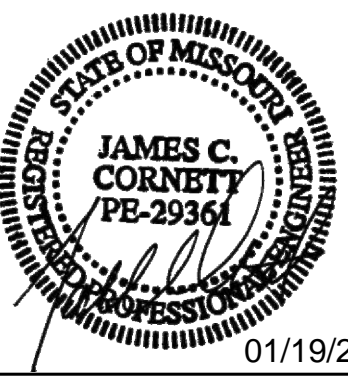
MECHANICAL GENERAL RENOVATION NOTES:

- THESE GENERAL NOTES APPLY TO ALL RENOVATION WORK.
- DUCT SIZES SHOWN ARE SHEET METAL SIZES.
- ALL DUCTS DOWNSTREAM OF VAV BOXES SHALL BE 2" WG PRESSURE CLASS. ALL SUPPLY DUCTS BETWEEN SUPPLY FAN AND VAV BOXES SHALL BE 4" WG PRESSURE CLASS. RETURN AND EXHAUST DUCTS SHALL BE 4" WG PRESSURE CLASS.
- TRANSITION FROM DUCT SIZES SHOWN TO EQUIPMENT CONNECTION SIZE AS REQUIRED.
- MAINTAIN 25"-0" MINIMUM BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PREVENT THE INSTALLATION OF CONDUITS, PIPING, LIGHTING, OR OTHER OBSTRUCTIONS UNDER OR ADJACENT TO HVAC EQUIPMENT THAT OBSTRUCTS ACCESS TO COILS, MOTORS, VALVES, FILTERS, ETC., OR OTHER HVAC COMPONENTS NEEDING MAINTENANCE OR OPERATIONS ACCESS.
- THERMOSTATS AND SENSORS SHALL BE MOUNTED AT 4'-6".
- COORDINATE DUCTWORK WITH ALL MECHANICAL, SPRINKLER AND PLUMBING PIPING BEFORE COMMENCEMENT OF WORK.
- LOCATIONS OF NEW EQUIPMENT, DUCTWORK, PIPING, AND ASSOCIATED ITEMS SHOWN ON THE DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ELEVATION OF ALL WORK. PROVIDE OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC., REQUIRED FOR A COMPLETE SYSTEM.
- MINOR CHANGES IN LAYOUT OR LOCATION MAY BE REQUIRED TO AVOID INTERFERENCES, OBSTRUCTIONS, ETC. AND ARE INCLUDED IN THE WORK. NOTIFY THE COR IMMEDIATELY IF SIGNIFICANT INTERFERENCES OR OBSTRUCTIONS ARE DISCOVERED THAT AFFECT PERFORMANCE OF THE WORK.
- ALL UTILITIES SERVING EXISTING AREAS SHALL REMAIN IN SERVICE AT ALL TIMES EXCEPT FOR SHORT PERIODS OF INTERRUPTION FOR TIE-IN OF NEW SERVICES TO EXISTING. ALL INTERRUPTIONS SHALL BE SCHEDULED WITH COR AND SHALL NOT BE SCHEDULED UNTIL NEW SERVICES ARE COMPLETE AND READY FOR FINAL CONNECTION.
- REMOVE AND REPLACE CEILING TILES AS NEEDED TO PERFORM THE WORK INDICATED ON THE PLANS. REPLACE ANY DAMAGED TILES WITH NEW TILES THAT MATCH THE EXISTING CEILING. NOTIFY COR OF ANY EXISTING CEILING TILES THAT ARE ALREADY DAMAGED PRIOR TO THE START OF WORK.
- 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.
- WORK OUTSIDE OF PROJECT LIMITS SHALL BE SCHEDULED WITH COR.
- LABEL ALL EQUIPMENT, PIPING AND DUCTWORK AS NECESSARY TO LOCATE EQUIPMENT FOR FUTURE PM. REFER TO SPECIFICATIONS 09 91 00 AND 23 05 11.

Revisions:	Date

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Drawing Title

MECHANICAL NOTES,
SYMBOLS AND
ABBREVIATIONS

Project Title

**Renovate Vacated
Surgery, Ward 6**

Location 800 Hospital Drive
Columbia, MO 65201

Date 01/19/2018

Checked JCC

Drawn SSC

Project Number

589A4-16-102

Building Number

01

Drawing Number

2-M0.1

Office
of
Facilities
Management



Bid Documents

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

TERMINAL UNIT (SUPPLY) SEQUENCE OF OPERATION

RUN CONDITIONS - SCHEDULED OR OCCUPANCY SENSOR(S):
THE UNIT SHALL RUN ACCORDING TO A USER DEFINED TIME SCHEDULE OR
WHEN OCCUPANCY SENSOR SHOWS SPACE IS OCCUPIED IN THE FOLLOWING
MODES:

OCCUPIED MODE:
72°F (ADJ.) COOLING SETPOINT.
70°F (ADJ.) HEATING SETPOINT.

UNOCCUPIED MODE (STANDBY):
78°F (ADJ.) COOLING SETPOINT.
70°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP IF THE ZONE TEMPERATURE IS GREATER THAN THE
COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING
SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
- THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE
HEATING AND COOLING SETPOINTS OF THE ZONE SENSOR.
REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW
THROUGH ONE OF THE FOLLOWING:

OCCUPIED:
- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE
ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW
(ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS
SATISFIED.

- WHEN THE ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE
CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT
ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE
AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED
AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE
IS SATISFIED.

REHEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE
THE REHEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN
ITS HEATING SETPOINT.

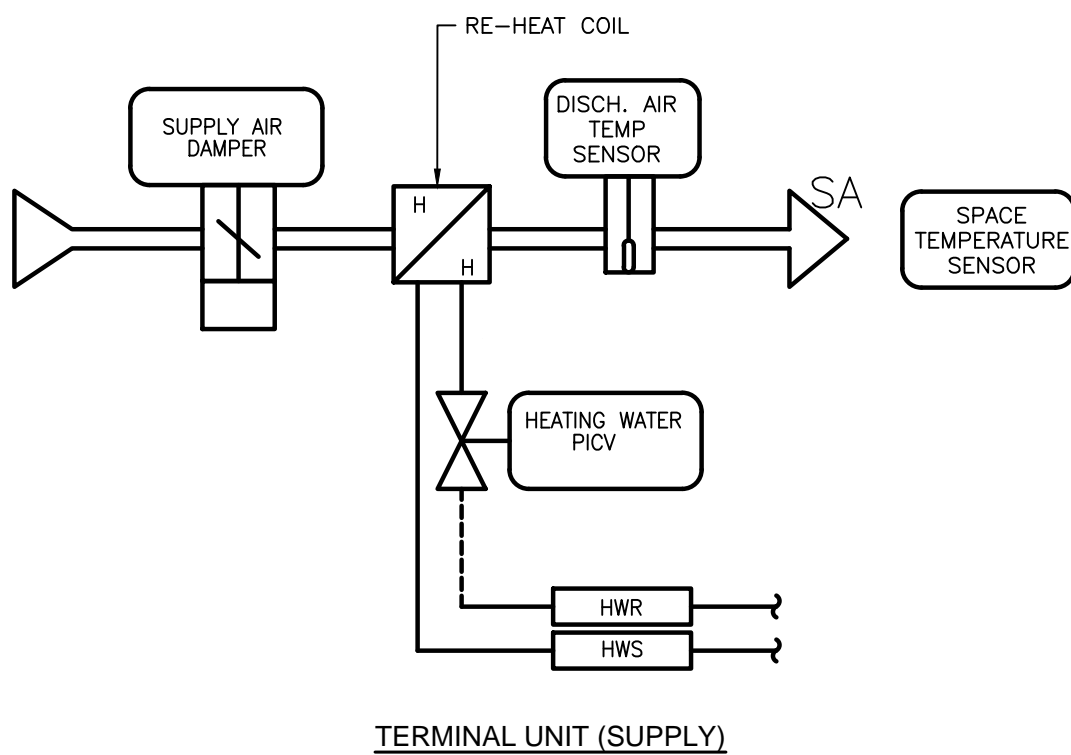
REHEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND
LIMIT REHEATING IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 30°F
(ADJ.) ABOVE THE ZONE TEMPERATURE.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP IF THE DISCHARGE AIR TEMPERATURE IS
GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP IF THE DISCHARGE AIR TEMPERATURE IS LESS
THAN 40°F (ADJ.).

EXISTING HOT WATER HEATING SYSTEM

- HOT WATER HEATING SHALL BE CONTROLLED BY BUILDING EMS.
- SYSTEM CURRENTLY SERVICES SPECIALTY CARE SUITE, UNIT TO SERVE
EXISTING FAN COIL UNITS AND NEW AND EXISTING VAV ZONE RE-HEAT COILS.
- A STEAM PRESSURE REGULATING VALVE SHALL MODULATE THE FLOW OF
STEAM TO THE HEAT EXCHANGER IN RESPONSE TO A TEMPERATURE SENSOR
LOCATED IN THE HOT WATER SUPPLY PIPING AT THE DISCHARGE OF THE
TEMPERATURE SENSOR SETPOINT SHALL BE 180°F.
- THE HEATING HOT WATER PUMP (XHW-1) SHALL BE ACTIVATED WHENEVER
OUTSIDE AIR TEMPERATURE IS BELOW 75°F. OPERATING PUMP SHALL
MODULATE ITS SPEED BASED ON NEW THE STATIC PRESSURE SENSOR(S)
LOCATED ON THE 6TH FLOOR.

COORDINATE ALL SEQUENCE OF OPERATIONS WITH TEST AND
BALANCING CONTRACTOR.



TERMINAL UNIT (SUPPLY)

AIR HANDLING UNIT SCHEDULE - EXISTING (SHOWN FOR REFERENCE ONLY)																									
MARK	MANUF	SERVES	TOTAL CFM	OUTSIDE CFM	SUPPLY SP (IN)			RETURN SP (IN)			SUPPLY FAN(S)					RETURN FAN(S)					CLG COIL	HTG COIL	HUMIDIFIER	STARTER	REMARKS
					IN	EX	TOT	IN	EX	TOT	NUMBER	DIA. (IN)	HP (EACH)	BHP (EACH)	HP (TOTAL)	NUMBER	DIA. (IN)	HP (EACH)	BHP (EACH)	HP (TOTAL)					
XAC-5	VENTROL	6TH FLR	20,000	6,650	2.7	3.1	5.8	0.4	2.6	3.0	3	22	9.0	8.6	27.0	3	20	5.5	5.3	16.5	CC-5	HC-5	H-5	VFD	1
REMARKS: 1. EXISTING TO REMAIN.																									

VAV TERMINAL UNIT SCHEDULE																			
TAG	SERVES ROOM(S)	MANUFACTURER	INLET SIZE MODEL	MAX CFM	MIN CFM	HEATING										MAX WPD (F7)	MAX APD (IN)	ROWS	REMARKS
						MAX CFM	GPM	EAT (°F)	LAT (°F)	EWI (F7)	LWT (F7)	MBH							
XVAV-01	SIEMENS	SH-506	06	200	100	200	0.3	55	—	180	—	4.8	—	—	—	—	5		
XVAV-02	SIEMENS	SH-506	06	150	100	150	0.3	55	—	180	—	4.4	—	—	—	—	5		
VAV-27	657 OFFICE	TITUS	06	250	90	250	0.6	55	95.4	180	142.9	10.5	0.5	0.25	2	1,2,4,6			
VAV-28	656 OPEN OFFICE	TITUS	12	750	495	750	1.3	55	94.1	180	127.8	32.1	0.5	0.25	2	1,2,3,6			
VAV-29	658 WORK/COPY	TITUS	06	250	210	210	0.3	55	79.1	180	142.8	5.3	0.5	0.25	1	1,2,3,6			
VAV-30	648 OFFICE	TITUS	08	350	120	335	0.6	55	93.5	180	133.8	14.1	0.5	0.25	2	1,2,3			
VAV-31	646 647 OFFICES	TITUS	10	500	160	500	1.0	55	93.4	180	134.7	21.0	0.5	0.25	2	1,2,3			
VAV-32	645 OFFICE	TITUS	10	550	130	550	1.1	55	93.4	180	135.6	23.1	0.5	0.25	2	1,2,3			
VAV-33	NOT USED	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
VAV-34	642 643 644 OFFICE	TITUS	10	675	675	675	1.0	55	91.7	180	123.9	27.1	0.5	0.25	2	1,2,3			
VAV-35	653 OPEN OFFICE	TITUS	06	300	225	225	0.4	55	80.2	180	145.0	6.2	0.5	0.25	1	1,2,3			
VAV-36	652 TEAM ROOM	TITUS	06	300	200	200	0.3	55	80.0	180	143.3	5.3	0.5	0.25	1	1,2,3			
VAV-37	654 OPEN OFFICE	TITUS	10	550	450	450	0.7	55	80.0	180	145.6	12.3	0.5	0.25	1	1,2,3			
VAV-38	624 COMMON CONFERENCE	TITUS	08	400	235	235	0.3	55	80.7	180	135.5	6.5	0.5	0.25	1	1,2,3,6			
VAV-39	650 IT CLOSET	TITUS	06	200	135	135	0.3	55	97.9	180	147.4	3.4	0.5	0.25	1	1,2,4			
VAV-40	C66 CORRIDOR	TITUS	10	500	500	500	1.0	55	81.3	180	141.9	14.4	0.5	0.25	1	1,2,3			
VAV-41	627 ELT CONFERENCE	TITUS	10	650	415	415	0.6	55	79.0	180	143.4	9.1	0.5	0.25	1	1,2,3,6			
VAV-42	620 BREAK ROOM	TITUS	06	200	190	190	0.3	55	80.0	180	143.3	4.2	0.5	0.25	1	1,2,4,6			
VAV-43	C65 CORRIDOR	TITUS	08	400	300	300	0.7	55	85.5	180	149.6	6.6	0.5	0.25	1	1,2,3			
VAV-44	626 RECEPTION	TITUS	10	600	400	400	0.9	55	84.0	180	149.4	12.7	0.5	0.25	1	1,2,3			
VAV-45	651 OPEN OFFICE	TITUS	10	500	495	495	0.8	55	78.6	180	145.1	12.9	0.5	0.25	1	1,2,3			
VAV-46	641 OFFICE	TITUS	08	350	115	325	0.6	55	94.1	180	134.1	13.9	0.5	0.25	2	1,2,3			
VAV-47	638 639 640 OFFICES	TITUS	10	675	220	675	1.4	55	93.7	180	136.9	28.6	0.5	0.25	2	1,2,3			
VAV-48	637 OFFICE	TITUS	08	350	115	350	0.6	55	92.6	180	133.5	14.4	0.5	0.25	2	1,2,3			
VAV-49	629 OPEN OFFICE	TITUS	08	475	260	260	0.4	55	82.1	180	138.9	7.7	0.5	0.25	1	1,2,3			
VAV-50	687 688 RESTROOMS	TITUS	08	650	650	650	0.6	55	77.9	180	125.2	14.3	0.5	0.25	2	1,2,3			
VAV-51	NOT USED	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
VAV-52	630 TEAM ROOM	TITUS	06	200	170	170	0.3	55	83.1	180	144.9	4.6	0.5	0.25	1	1,2,3			
VAV-53	635 636 OFFICES	TITUS	10	450	145	450	0.9	55	95.4	180	135.5	19.0	0.5	0.25	2	1,2,3			
VAV-54	633 634 OFFICES	TITUS	10	450	145	400	0.9	55	98.7	180	137.2	16.3	0.5	0.25	2	1,2,3			
VAV-55	632 OFFICE	TITUS	12	650	270	650	1.2	55	96.5	180	128.4	30.7	0.5	0.25	2	1,2,3			
VAV-56	631 OFFICE	TITUS	10	675	460	460	0.8	55	80.0	180	146.0	12.6	0.5	0.25	1	1,2,3			
REMARKS: 1. VERIFY LEFT OR RIGHT HAND PIPING CONNECTIONS AND CONTROLS PRIOR TO ORDERING. 2. FACTORY MOUNTED CONTROLS SUPPLIED BY CONTROLS CONTRACTOR. 3. 2-WAY MODULATING CONTROL HOT WATER VALVE. 4. 3-WAY HOT WATER CONTROL VALVE. 5. EXISTING TO REMAIN. 6. REFER TO THE SPECIFICATIONS FOR ALL BID ITEMS.																			

EXHAUST FAN SCHEDULE							
MARK	MODEL NO.	LOCATION	CFM	ESP	HP	VOLTS/PH	RPM
KEF-33	-	6TH FL ROOF	-	-	-	-	1
EF-47	G-183-VG	6TH FL ROOF	3,000	1.0	1.0	115/1	1325
EF-48	G-095-VG	6TH FL ROOF	475	0.75	0.25	115/1	1725
REMARKS: 1. EXISTING TO BE RELOCATED. 2. DISCONNECT SWITCH. 3. DIRECT DRIVE. 4. ROOF MOUNTED UPBLAST. 5. FAN SIZED FOR 10% LEAKAGE.							

AIR DEVICE SCHEDULE						
PLAN MARK	MODEL	MATL.	NECK SIZE	FRAME TYPE	PANEL	REMARKS
S1	TDC-AA	ALUM	6"Ø	LAY-IN	24x24	1,2
S2	TDC-AA	ALUM	8"Ø	LAY-IN	24x24	1,2
S3	TDC-AA	ALUM	10"Ø	LAY-IN	24x24	1,2
S4	TDC-AA	ALUM	12"Ø	LAY-IN	24x24	1,2
S5	TDC-AA	ALUM	10"Ø	HARD	24x24	1,2
S6	301FS	ALUM	6x6	HARD	-	1
S7	301FS	ALUM	10x6	HARD	-	1
R1	PAR-AA	ALUM	6"Ø	LAY-IN	24x24	-
R2	PAR-AA	ALUM	8"Ø	LAY-IN	24x24	-
R3	PAR-AA	ALUM	10"Ø	LAY-IN	24x24	-
R4	PAR-AA	ALUM	12"Ø	LAY-IN	24x24	-
R5	PAR-AA	ALUM	14"Ø	LAY-IN	24x24	-
R6	NOT USED	-	-	-	-	-
R7	PAR-AA	ALUM	22x10 (8")	LAY-IN	24x12	1
R8	PAR-AA	ALUM	22x10 (10")	LAY-IN	24x12	1
R9	350FL	ALUM	10x6	HARD	-	1
E1	PAR-AA	ALUM	6"Ø	LAY-IN	24x24	-
E2	PAR-AA	ALUM	8"Ø	LAY-IN	24x24	-
E3	PAR-AA	ALUM	10"Ø	LAY-IN	24x24	-
E4	PAR-AA	ALUM	22x10 (6")	LAY-IN	24x12	1
E5	PAR-AA	ALUM	22x10 (8")	LAY-IN	24x12	1
E6	PAR-AA	ALUM	6"Ø	HARD	24x24	-
E7	PAR-AA	ALUM	8"Ø	HARD	24x24	-
E8	350FL	ALUM	6x6	HARD	-	1
REMARKS: 1. PROVIDE TRANSITION FROM ROUND DUCT TO NECK SIZE. 2. FULL FACE DIFFUSER. (16x16 DUCT SIZE)						

VIBRATION ISOLATION AND SEISMIC RESTRAINT SCHEDULE	
SEE SPECIFICATION SECTION 23 05 41.	

BRAND NAME OR EQUAL: NAME BRANDS USED ON THE DRAWINGS ARE NOT MEANT TO BE RESTRICTIVE, BUT ONLY TO INDICATE A BRAND THAT REFLECTS THE CHARACTERISTICS AND LEVEL OF QUALITY THAT WILL SATISFY THE GOVERNMENT'S NEEDS. THE SALIENT PHYSICAL, FUNCTIONAL, OR PERFORMANCE CHARACTERISTICS THAT EQUAL PRODUCTS MUST MEET ARE IDENTIFIED IN THE SPECIFICATIONS AND DRAWINGS.

Revisions:	Date	CONSULTANTS:	JAMES C. CORNETT PE-29361	ARCHITECT/ENGINEERS:	Drawing Title MECHANICAL SCHEDULES AND FLOW CONTROL DIAGRAMS	Project Title Renovate Vacated Surgery, Ward 6	Project Number 589A4-16-102	Office of Facilities Management
			JAMES C. CORNETT PE-29361 01/19/2018	FoxArchitects One Memorial Drive Suite 1800 Saint Louis, MO 63102 Tel 314.621.4343 Fax 314.621.0261	VOSB cVe	Location 800 Hospital Drive Columbia, MO 65201	Building Number 01	
				SSC Engineering, Inc. 18007 Edison Avenue Channahon, Illinois 61009 Phone: 815.330.7770 Fax: 815.330.7977 info@sscengineering.com		Date 01/19/2018	Checked JCC	Drawn SSC
							Drawing Number 2-M0.2	