RCP LEGEND

MECHANICAL

SUPPLY GRILLE

RETURN GRILLE

EXHAUST FAN

ELECTRICAL

INDICATES BRACKET, WALL MOUNTED
ELECTRICAL LIGHT / FIXTURE / EQUIPMENT, ETC

LIGHT FIXTURES

EMERGENCY EGRESS LIGHT FIXTURES

CEILING MOUNTED
EXIT LIGHT

CEILING MOUNTED
EXIT LIGHT W/ ARROW

OS
CEILING MOUNTED
OCCUPANCY SENSOR

CEILING MOUNTED
RECEPTACLE

FIRE PROTECTION

INDICATES BRACKET, WALL MOUNTED
FIRE PROTECTION FIXTURE / EQUIPMENT, ETC

SPRINKLER HEAD

V
FIRE ALARM STROBE

F
FIRE ALARM HORN STROBE

CO
CARBON MONOXIDE DETECTOR

S
SMOKE DETECTOR

H
HEAT DETECTOR

P
PHOTO DETECTOR

ARCHITECTURAL

8'-0"
CEILING HEIGHT

EXP
EXPOSED CEILING

CEILING FAN

2' x 2' ACOUSTICAL
PANEL LAY-IN
CEILING

GWB
CEILING

METAL PANEL
SOFFIT

ARCHITECTURAL SYMBOLOGY

REFER TO THE GENERAL "G" SERIES SHEETS FOR
GENERAL PROJECT SYMBOLOGY

W1 / L1 / S1
WINDOW / LOUVER / STOREFRONT DESIGNATION

XX.X
PARTITION / WALL TYPE

FD
FLOOR DRAIN

DIRECTION OF SLOPE

FEC
FIRE EXTINGUISHER CABINET

A
SPECIALTY ITEM DESIGNATION

120
DOOR NUMBER

4 / 12
ROOF SLOPE

CJ
CONTROL
JOINT

ARCHITECTURAL GENERAL NOTES

ARCHITECTURAL GENERAL NOTES APPLY
TO ALL ARCHITECTURAL DRAWINGS.

1. PLAN DIMENSIONS SHOWN ARE TO FACE OF FRAMING MEMBERS AND TO CENTERLINE OF COLUMNS.
2. ALL NOTES, DETAILS, AND FEATURES DRAWN AS APPLICABLE FOR ONE CONDITION ARE APPLICABLE TO SIMILAR CONDITIONS, WHETHER OR NOT SPECIFICALLY INDICATED.
3. IN STUD WALLS, LOCATE ALL INTERIOR DOOR FRAMES A DISTANCE OF 4" FROM THE THROAT RETURN TO THE CLOSEST ADJACENT PERPENDICULAR PARTITION, UON.
4. ALL ELEVATIONS ARE MEASURED FROM THE REFERENCE ELEVATION +0'-0", WHICH IS THE TOP OF THE FIRST FLOOR SLAB, UON.
5. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS OR SIZES OF BUILDING ELEMENTS.
6. ALL WOOD BLOCKING AND MISCELLANEOUS STEEL SHOWN IN DETAILS AND SECTIONS SHALL BE CONTINUOUS, UON.
7. USE FIRE-RETARDANT TREATED WOOD PRODUCTS FOR ALL CONCEALED WOOD BLOCKING, UON.
8. USE PRESERVATIVE-TREATED WOOD PRODUCTS FOR ALL WOOD BLOCKING IN CONTACT WITH EXTERIOR MASONRY OR CONCRETE WALLS, AND FOR ALL WOOD BLOCKING IN CONTACT WITH CONCRETE SLABS ON GRADE.
9. VERIFY ALL DIMENSIONS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
10. CONFLICTING INFORMATION BETWEEN THE ARCHITECTURAL DRAWINGS AND OTHER DRAWINGS, SPECIFICATIONS, AND/OR EXISTING CONDITIONS SHALL BE NOTED IN WRITING TO THE ARCHITECT FOR REVIEW AND MUST BE CLARIFIED PRIOR TO COMMENCING THE CONSTRUCTION IN QUESTION.
11. PROVIDE WOOD OR METAL BLOCKING BEHIND GWB AT THE FOLLOWING LOCATIONS:
    A. WALL-MOUNTED OR CEILING-MOUNTED DOOR STOPS, DOOR HOLD-OPEN DEVICES, AND OTHER HARDWARE.
    B. WALL-MOUNTED TOILET ACCESSORIES. AT GRAB BARS, PROVIDE BLOCKING CAPABLE OF RESISTING A MINIMUM LOAD OF 250 POUNDS APPLIED VERTICALLY OR HORIZONTALLY AT ANY POINT ON THE GRAB BAR.
    C. WALL-MOUNTED PLUMBING FIXTURES, INCLUDING BUT NOT LIMITED TO LAVATORIES, SINKS, WATER CLOSETS, AND WATER COOLERS. PROVIDE BLOCKING CAPABLE OF RESISTING A MINIMUM LOAD OF 400 POUNDS APPLIED VERTICALLY AT ANY POINT ON THE PLUMBING FIXTURE.
    D. WALL-MOUNTED CABINETRY, SHELVING, AND SIMILAR ITEMS.
    E. WALL-MOUNTED VIDEO MONITORS, AND SIMILAR ITEMS.
12. MATERIALS USED IN THE PROJECT SHALL BE NEW AND PROVIDED BY THE CONTRACTOR, UON.
13. FURNITURE, FIXTURES, AND EQUIPMENT (FF&E) SHOWN ARE FOR REFERENCE AND COORDINATION ONLY.

ARCHITECTURAL ABBREVIATIONS

&	AND
@	AT
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE, ADJUST
AFF	ABOVE FINISH FLOOR
AFS	ABOVE FINISH SLAB
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
APC	ARCHITECTURAL PRECAST CONCRETE
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BRG	BEARING
BSJ	BUILDING SEPARATION JOINT
BUR	BUILT-UP ROOFING
℄	CENTER LINE
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	COLUMN LINE
CLR	CLEAR
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
D	DEPTH / DRYER
DBL	DOUBLE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EOS	EDGE OF SLAB
EPS	EXPANDED POLYSTYRENE
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FGL	FIBERGLASS
FIN	FINISH
FLR	FLOOR
FO	FACE OF
FP	FIRE PROTECTION
FRT	FIRE RETARDANT TREATED
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
ID	INSIDE DIAMETER
IGU	INSULATING GLASS UNIT
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
KO	KNOCK OUT
L	LENGTH / LONG
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTG	MOUNTING
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
PAF	POWDER-ACTUATED FASTENER
PED	PANIC EXIT DEVICE
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
POLYISO	POLYISOCYANURATE INSULATION
PR	PAIR
PTD	PAINTED
R	RADIUS
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCING
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
SAB	SOUND ATTENUATING BLANKET
SAFB	SOUND ATTENUATING FIRE BLANKET
SF	SQUARE FEET
SIM	SIMILAR
SQ	SQUARE
SS	STAINLESS STEEL
STRUCT	STRUCTURAL
STD	STANDARD
STL	STEEL
SUSP	SUSPENDED
T & B	TOP & BOTTOM
TELE	TELECOMMUNICATION
THR	THRESHOLD
TOC	TOP OF CONCRETE
TOW	TOP OF WALL
TP	TOILET PARTITION
TTL	TOTAL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VTCPIF	VIRGINIA TECH CAMPUS PLANNING, INFRASTRUCTURE, AND FACILITIES
VTR	VENT THRU ROOF
W	WIDTH / WASHER
W/	WITH
W/O	WITHOUT
WC	WALLCOVERING
WD	WOOD
WDW	WINDOW
WO	WINDOW OPENING
WP	WORK POINT
WT	WEIGHT
XPS	EXTRUDED POLYSTYRENE

MATERIAL LEGEND

	ALUMINUM		GRAVEL		PLYWOOD / MDF
	CONCRETE		GWB / GROUT		STEEL
	EARTH		INSULATION - BATT / BLANKET		WOOD BLOCKING / FRAMING - CONTINUOUS
	FILL - GRANULAR		INSULATION - RIGID		WOOD BLOCKING - INTERRUPTED
	FILL - POROUS		INSULATION - SPRAY FOAM		

NOT ALL ABBREVIATIONS, SYMBOLS, AND LEGEND GRAPHICS LISTED ARE NECESSARILY USED ON THIS PROJECT. REFER TO DOCUMENTS FOR SPECIFIC INFORMATION.

VIRGINIA TECH NON-CAPITAL CONSTRUCTION

FORESTRY RESEARCH OPERATIONS CENTER

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VT PROJECT CODE WO# 26-819490

DESIGNER

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REVISIONS

KEY PLAN

SHEET

ARCHITECTURAL LEGEND, NOTES & ABBREVIATIONS

A-001

DESIGN: JCS
DRAWN: ES & NK
REVIEW: DP

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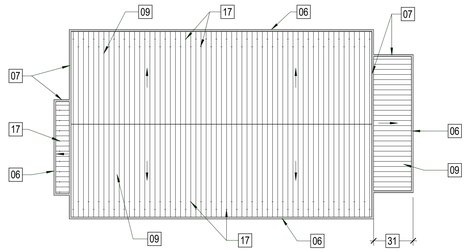
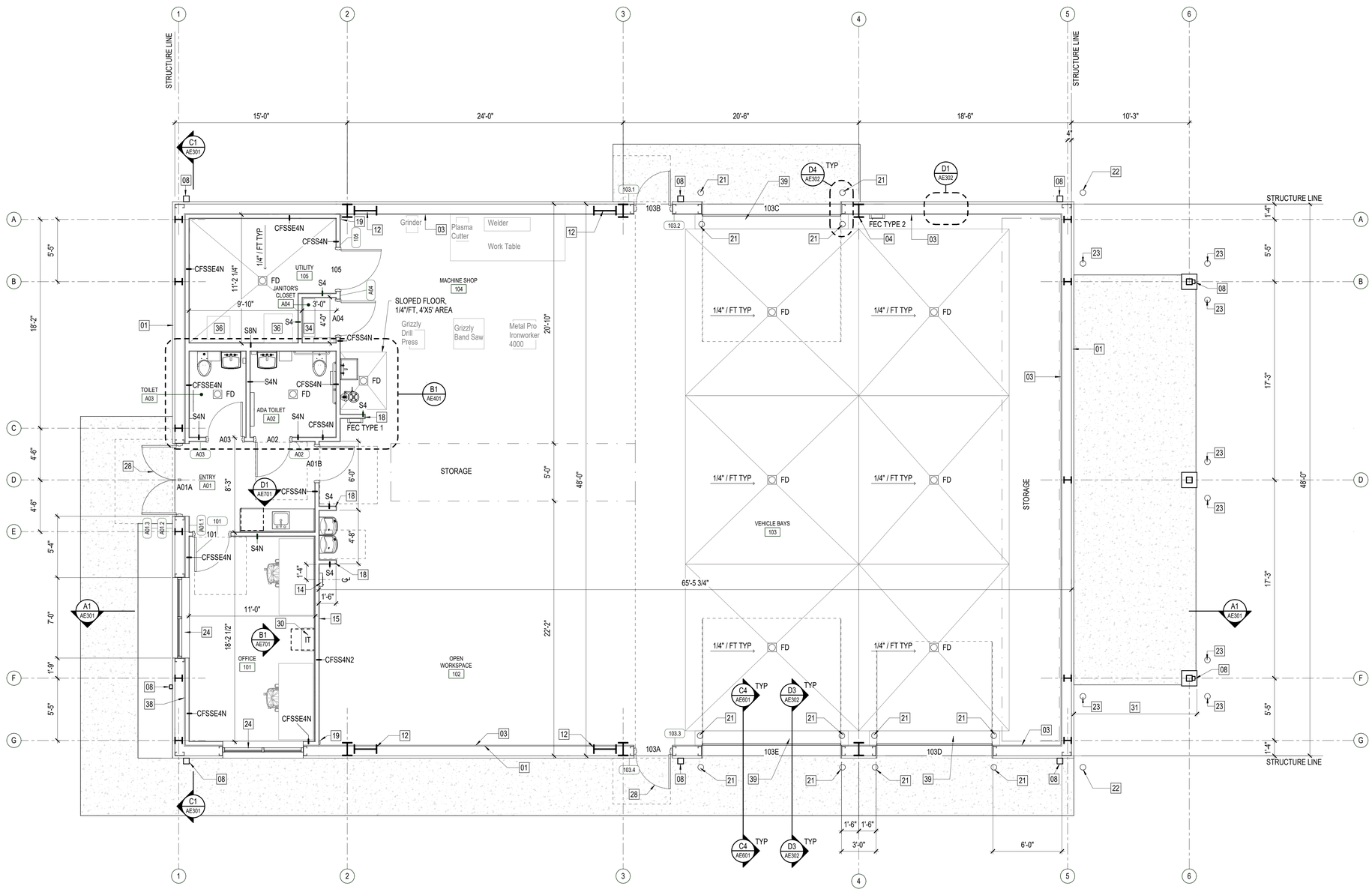


SEE EXTERIOR ELEVATIONS FOR ROOF SLOPES

D1 ROOF PLAN

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



A1 FLOOR PLAN

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

KEY NOTES

#	
01	PEMB INSULATED METAL WALL PANEL TYPICAL
03	PEMB LINER PANEL TO 7'-0" MIN AFF. TYPICAL AT PEMB WALLS IN MACHINE SHOP, OPEN WORKSPACE, AND VEHICLE BAYS.
04	PEMB COLUMN TYPICAL
06	PEMB METAL GUTTER, MATCH PROFILE OF ADJACENT UNMANNED SYSTEMS LAB GUTTERS
07	PEMB METAL RAKE TRIM, MATCH PROFILE OF ADJACENT UNMANNED SYSTEMS LAB RAKE TRIM
08	PEMB METAL DOWNSPOUT
09	PEMB STANDING-SEAM METAL ROOF PANELS TYP
11	PEMB CANTILEVERED CANOPY
12	PEMB PORTAL FRAME COLUMN TYP
13	PEMB ROOF-TO-WALL FLASHING
14	DEFIBRILLATOR: PROVIDE ZOLL "MODEL AED 3" AUTOMATIC EXTERNAL DEFIBRILLATOR, WITH BATTERY, UNIVERSAL PADS, QUICK-RESPONSE AED PREP KIT. PROVIDE ZOLL "SEMI-RECESSED WALL CABINET", PART # 8000-001257, WITH ALARM. INSTALL CABINET AT 48" ABOVE FINISH FLOOR TO TOP OF CABINET. PROVIDE ZOLL "ADA SIGN PACKAGE". INSTALL SIGNS DIRECTLY ABOVE CABINET, WITH WALL-MOUNTED SIGN AT 6'-0" ABOVE FINISH FLOOR AND 3-D WALL SIGN AT 9'-0" ABOVE FINISH FLOOR.
15	PROVIDE CONCEALED BLOCKING IN WALL FOR FUTURE INSTALLATION OF WALL-MOUNTED VIDEO MONITOR. COORDINATE LOCATION OF BLOCKING WITH OWNER.
16	WHERE CONCRETE PAVEMENT ABUTS BUILDING EXTERIOR, STOP BOTTOM OF PEMB WALL PANEL AT FINISH FLOOR. PROVIDE CONTINUOUS SEALANT BETWEEN BOTTOM OF PEMB WALL PANEL TRIM AND CONCRETE PAVEMENT, TYPICAL.
17	SNOWGUARDS TYP
18	TOP OF WALL @ 7'-0" AFF. CAP TOP OF WALL W/ GWB.
19	CONTINUOUS 1X4 WOOD TRIM FROM FLOOR TO BOTTOM OF 1X4 WOOD TRIM AT TOP OF WALL (SEE NOTE ON A1/AE301 FOR TOP-OF-WALL WOOD TRIM). ALLOW 1" SPACE BETWEEN WOOD TRIM AND PEMB LINER PANEL. PAINT WOOD TRIM.
20	ALUMINUM STOREFRONT WINDOW TYPICAL
21	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2 AND SECTIONAL DOOR BOLLARD DETAILS ON AE302.
22	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2.
23	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2. BOLLARD INCLUDED IN ADDITIVE BID ITEM 1.
24	SOLID SURFACE MATERIAL AND ALUMINUM EXPANSION JOINT COVER TYPICAL
25	SECTIONAL OVERHEAD DOOR
26	HOLLOW METAL DOOR AND FRAME
27	ALUMINUM ENTRANCE DOORS AND FRAME
28	PUBLIC ENTRANCE
29	FIXED ALUMINUM LOUVER
30	IT EQUIPMENT CABINET
31	ADDITIVE BID ITEM 1 - STORAGE LEAN-TO: INCLUDES ROOF ASSEMBLY, DOWNSPOUTS, COLUMNS, COLUMN FOUNDATIONS, CONCRETE FLOOR SLAB, AND BOLLARDS. BASE BID: COMPONENTS LISTED AS PART OF ADDITIVE BID ITEM 1 ARE NOT PROVIDED.
32	2'-10" MAX AFF TO SINK RIM
33	WASTE CAN OFOI
34	(5) 12" X 40" X 3/4" WALL-MOUNTED PLASTIC LAMINATE-FACED SHELVES ON ADJUSTABLE BRACKETS AND (3) 60" LONG STANDARDS SPACED 16" OC AND 1'-6" AFF TO BOTTOM OF STANDARDS. STANDARDS: BHMA A156.9, B04102, DOUBLE-SLOT DESIGN, STEEL, 0.07" THICK MIN. BRACKETS: BHMA A156.9, B04112, DOUBLE-SLOT DESIGN, STEEL, 0.058" THICK MIN. PROVIDE 3 BRACKETS PER SHELF. BRACKETS EQUIPPED WITH SCREW HOLES FOR ATTACHMENT TO SHELVES. FINISH FOR STANDARDS AND BRACKETS: BAKED ENAMEL OR BAKED-ON POWDER-COAT PAINT, COLOR AS SELECTED BY OWNER. PROVIDE CONCEALED BLOCKING IN WALL FOR ATTACHMENT OF STANDARDS. SCREW-ATTACH STANDARDS TO BLOCKING AND BRACKETS TO SHELVES.
35	KNOX BOX: MOUNT AT 6'-0" ABOVE FINISH FLOOR MEASURED TO CENTERLINE OF BOX. SEE B1/AE302 FOR INSTALLATION DETAIL.
36	CONCRETE HOUSEKEEPING PAD
37	LOCATION OF PEMB DIAGONAL BRACING BETWEEN PEMB COLUMNS TYP
38	1" CLEAR SPACE BETWEEN CFS STUD WALL FRAMING AND PEMB WALL FRAMING TYPICAL
39	FLOOR RECESS AT OVERHEAD DOORS - SEE DETAILS C4/AE601 & C5/AE601
40	EXTEND UNDERGROUND DRAINS UP TO DAYLIGHT. INCREASE PIPE SIZE AS NEEDED TO FIT DOWNSPOUTS. OFFSET DOWNSPOUT ENDS WHERE NECESSARY TO CONNECT TO DRAIN. EXTEND DOWNSPOUTS INTO DRAINS AND SEAL CONNECTION WITH SEALANT, TYPICAL.

GRAPHIC SCALE(S)

1/16" = 1' - 0" 0 5' 10' 20' 30' 60'

1/4" = 1' - 0" 0 1' 5' 10' 15'

VIRGINIA TECH NON-CAPITAL CONSTRUCTION

FORESTRY RESEARCH OPERATIONS CENTER

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DESIGNER

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John Shields
ARCHITECT

UBO CONFORMANCE

SUBMITTAL

10/23/2026

ISSUED FOR CONSTRUCTION

REVISIONS

KEY PLAN

SHEET

FLOOR PLAN AND ROOF PLAN

AE101

DESIGN: JCS
DRAWN: ES & NK
REVIEW: DP

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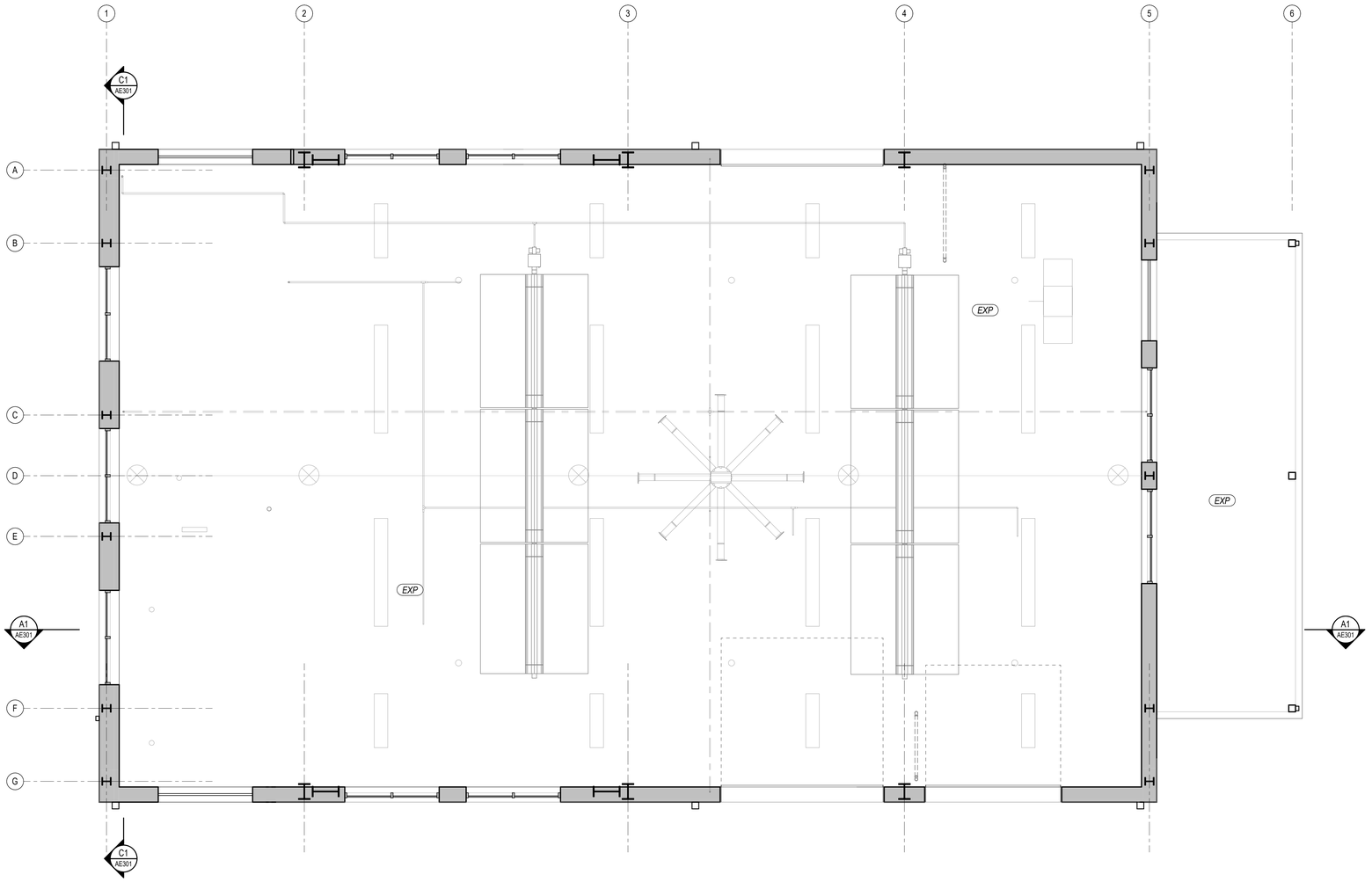
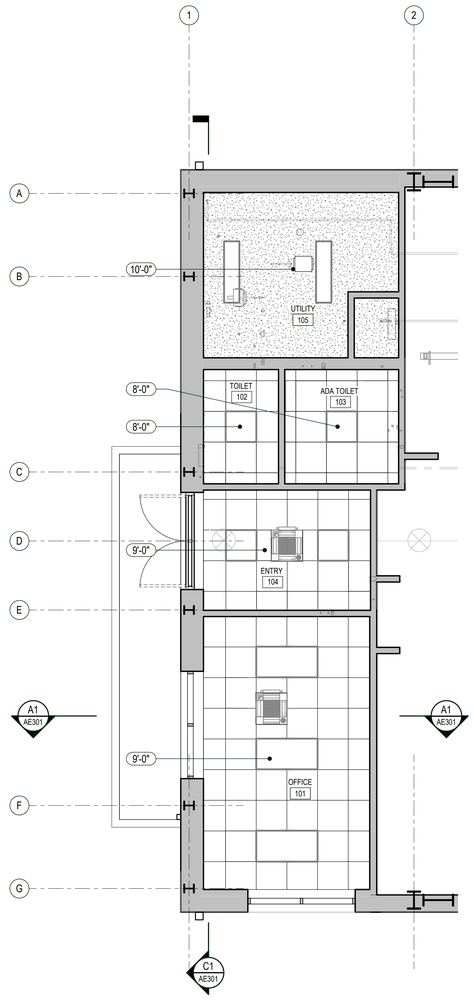


A1 MACHINE SHOP AND VEHICLE BAYS
REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



A5 OFFICE REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE(S)
1/4" = 1' - 0" 0 1' 5' 10' 15'

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REVISIONS

KEY PLAN

SHEET
REFLECTED CEILING PLAN

AE102

DESIGN: JCS
DRAWN: ES & NK
REVIEW: DP

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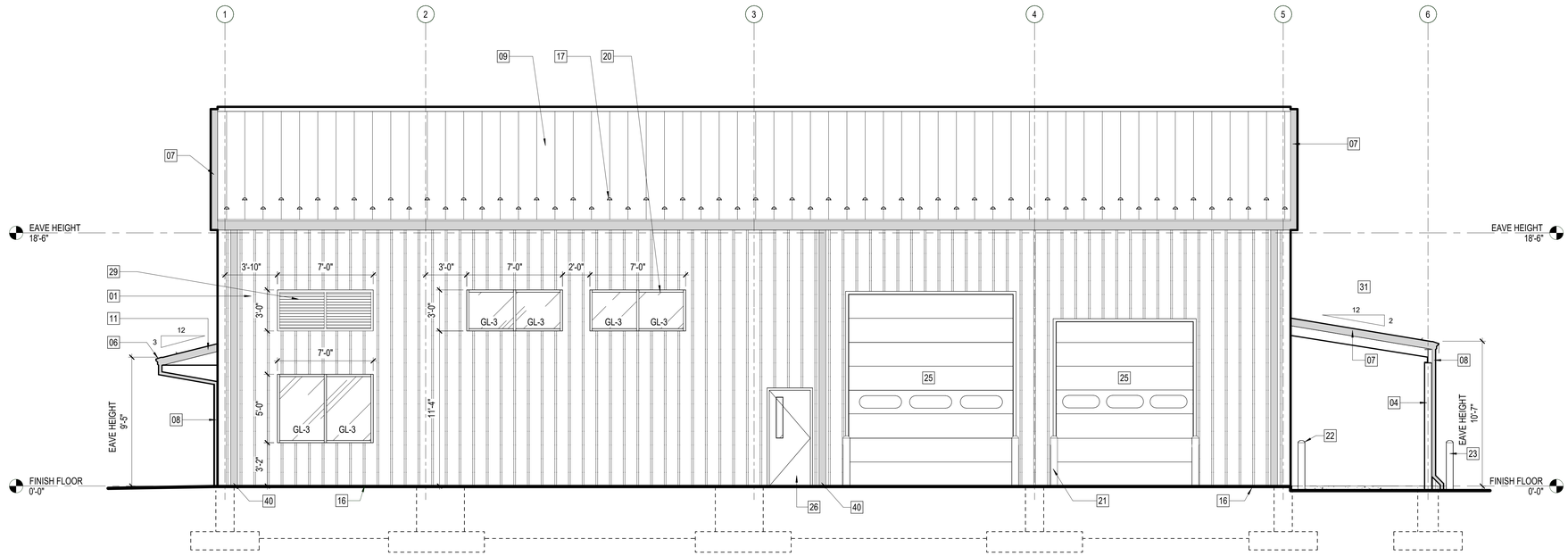
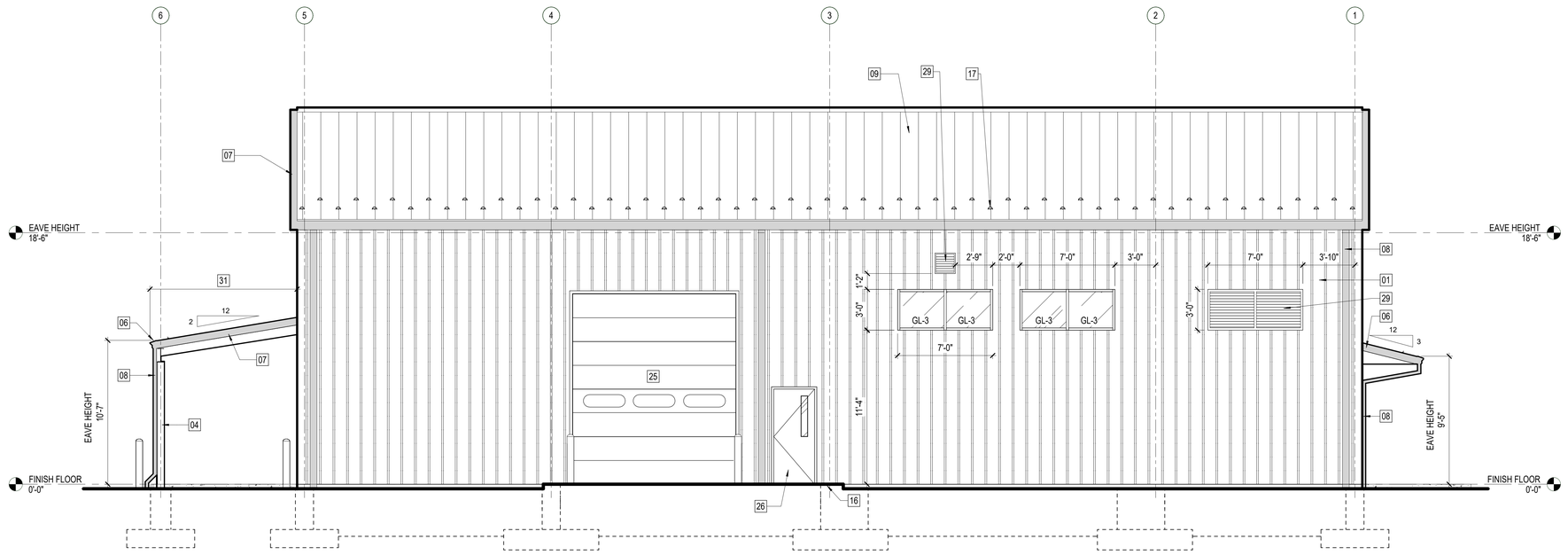


C1 EAST ELEVATION

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



A1 WEST ELEVATION

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

GENERAL NOTES

THESE NOTES APPLY TO ALL EXTERIOR ELEVATIONS.

1. EXTERIOR WINDOWS ARE ALUMINUM STOREFRONT FRAMING WITH GLASS TYPE GL-3 UON.

KEY NOTES

01	PEMB INSULATED METAL WALL PANEL TYPICAL
03	PEMB LINER PANEL TO 7'-0" MIN AFF. TYPICAL AT PEMB WALLS IN MACHINE SHOP, OPEN WORKSPACE, AND VEHICLE BAYS.
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540-982-0800

PROFESSIONAL SEAL

COMMONWEALTH OF VIRGINIA
JOHN C. SHIELDS
Lic. No. 7476
John Shields

UBO CONFORMANCE

SUBMITTAL

10/23/2026

ISSUED FOR CONSTRUCTION

REVISIONS

KEY PLAN

SHEET

EXTERIOR ELEVATIONS

AE201

DESIGN: JCS
DRAWN: ES & NK
REVIEW: DP

CN 11053

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830

FINISH LEGEND

CODE	MATERIAL	MANUFACTURER	DESCRIPTION	COLOR	FINISH	SIZE
APC1	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA HIGH NRC, 15/16" BEVELED TEGULAR, STYLE NO. 2081; SUSPENSION SYSTEM: 15/16 PRELUDE	"WHITE"	WHITE CEILING GRID	24"W X 24"D; 1" THICK
BL1	BLINDS	SWF CONTRACT	HERITAGE; 1" HORIZONTAL ALUMINUM CORDLESS BLINDS	#121 "BRUSHED ALUMINUM"	---	---
CG1	CORNER GUARD	INPRO	STANDARD TYPE 304; 16 GAUGE	STAINLESS STEEL	NO. 4 SATIN	3-1/2" WING; 8' HIGH
PL1	PLASTIC LAMINATE (CASEWORK)	WILSONART	STANDARD HPL	#8236 "MONTEVERDI"	05 TIMBERGRAIN	---
PL2	PLASTIC LAMINATE (COUNTERTOP)	WILSONART	STANDARD HPL	#4878 "PEWTER MESH"	38 FINE VELVET TEXTURE	---
PT1	PAINT (GENERAL)	SHERWIN WILLIAMS	---	#SW 7063 "NEBULOUS WHITE"		---
PT2	PAINT (CEILING)	SHERWIN WILLIAMS	---	#SW 7007 "CEILING BRIGHT WHITE"		---
PT3	PAINT (TRIM)	SHERWIN WILLIAMS	---	#SW 7019 "GAUNTLET GRAY"		---
RB1	RUBBER BASE	JOHNSONITE	BASEWORKS; THERMOSET RUBBER; TYPE: TS WITH TOE	#63 "BURNT UMBER"	---	4"H
SC1	SEALED CONCRETE	---	WATER-BASED CONCRETE FLOOR SEALER SYSTEM	"CLEAR"	---	---
SSM1	SOLID SURFACE MATERIAL (WINDOW STOOL)	MEGANITE	---	#001A "BRIGHT WHITE"	---	---

GENERAL FINISH NOTES

1. FINISHES LISTED IN THE FINISH LEGEND SHALL BE FOR BASIS OF DESIGN. COMPARABLE PRODUCTS BY OTHER MANUFACTURERS SHALL BE CONSIDERED. COMPARABLE PRODUCTS SHALL MATCH LISTED PRODUCTS IN TERMS OF BOTH COLOR AND PERFORMANCE.
2. FINISHES TO BE CONSISTENT WITH THE VIRGINIA TECH DESIGN AND CONSTRUCTION STANDARDS. DEVIATIONS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY ARCHITECT AND VIRGINIA TECH.
3. FINISHES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER 'S INSTRUCTIONS AND RECOMMENDATIONS UTILIZING MANUFACTURER 'S RECOMMENDED PRODUCTS AND ADHESIVES.
4. PROVIDE ACCESSIBLE (ADA / ICC A117.1) SIGNAGE THROUGHOUT AS REQUIRED FOR ROOM IDENTIFICATION AND WAYFINDING.
5. PROVIDE PLASTIC LAMINATE CASEWORK (PL1) AND COUNTERTOP (PL2) IN ENTRY.
6. PROVIDE SOLID SURFACE MATERIAL (SSM1) WINDOW STOOLS IN OFFICE AT EXTERIOR WINDOWS.
7. PROVIDE BLINDS (BL1) ON ALL EXTERIOR WINDOWS IN OFFICE. PROVIDE WOOD BLOCKING FOR WINDOW SHADES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
8. PROVIDE STAINLESS STEEL CORNER GUARDS (CG1) AT OUTSIDE CORNERS OF INTERIOR GYPSUM WALLBOARD WALLS.
9. PAINT INTERIOR DOORS AND FRAMES, PT3. REFER TO DOOR SCHEDULE FOR EXTERIOR DOOR AND FRAME FINISH INFORMATION.
10. PROVIDE RESILIENT BASE (RB1) ON GWB WALLS ONLY. PROVIDE AN EPOXY BASED SEALANT CAULKING BEAD WHERE CONCRETE FLOOR MEETS BUILDING STRUCTURE WALL AND/OR WHERE NO OTHER WALL BASE MATERIAL EXISTS.

GENERAL SIGNAGE NOTES

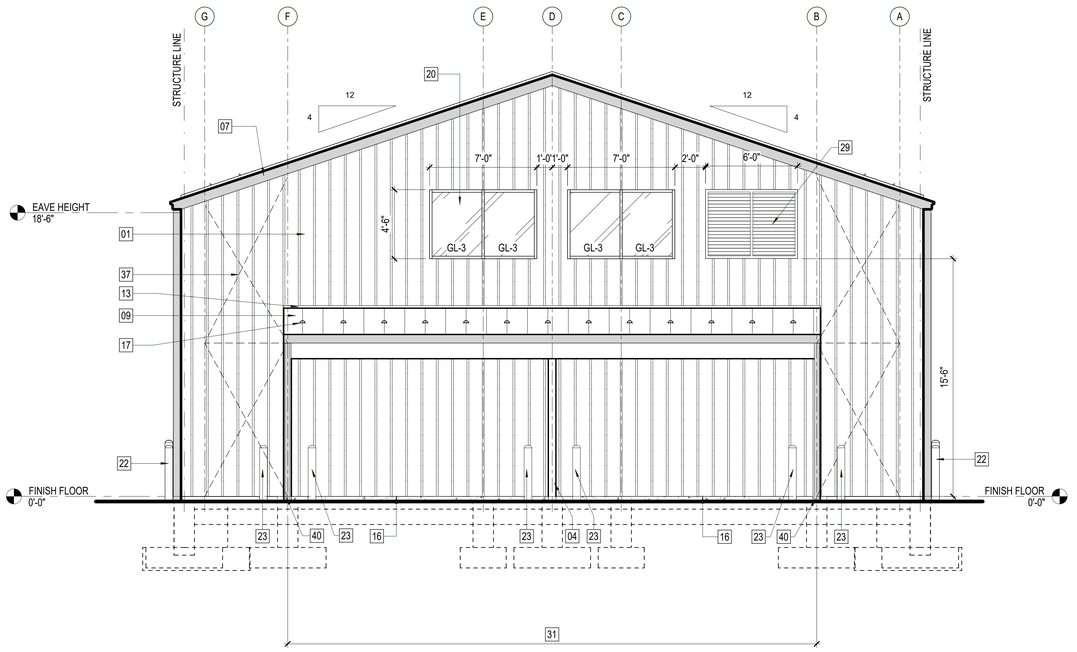
1. REFER TO SHEET AE101 FOR SIGNAGE TAG LOCATIONS
2. BUILDING SIGNAGE: COMPLY WITH VIRGINIA TECH STANDARDS. WORK: CONFORM TO APPLICABLE CODES AND REGULATIONS REFERENCED ON THE LIFE SAFETY DESIGN ANALYSIS, INCLUDING 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
3. SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. PROVIDE CONCEALED FASTENERS AND ANCHORS APPROPRIATE FOR SUBSTRATES INDICATED.
4. CONTRACTOR IS RESPONSIBLE FOR SITE VERIFICATION OF CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF SIGNAGE ITEMS DESCRIBED ON THE PLANS AND SPECIFICATIONS. PROVIDE ADDITIONAL HARDWARE OR SIMILAR ITEMS AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION. VARIANCES SHALL BE REPORTED TO THE GENERAL CONTRACTOR PRIOR TO PROCEEDING WITH THE WORK.
5. PROVIDE SHOP DRAWINGS, INCLUDING DETAILS FOR INSTALLATION AND ATTACHMENT, AND SIGN SAMPLE FOR ARCHITECT 'S REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
6. FOR SIGNS INDICATED AT EXTERIOR LOCATIONS, SIGNAGE TO BE FABRICATED WITH WEATHER AND FADE RESISTANT MATERIALS RECOMMENDED AND APPROVED BY MANUFACTURER FOR EXTERIOR.
7. COORDINATE SIGNAGE INSTALL LOCATIONS WITH ALL OTHER PLANNED WALL DEVICES.
8. GENERAL SIGNAGE FINISHES (UNLESS OTHERWISE NOTED):
   a. FRAME AND HOLDER: "NATURAL SATIN"
   b. STANDARD DISPLAY: CLEARLENS NON-GLARE 1/8" ACRYLIC
   c. ADA PLAQUE: 1/8" ACRYLIC "SILVER"
   d. SIGN BAND: "SILVER"
   e. PAPER INSERT: A00 "WHITE"
   f. TYPOGRAPHY (PRINTED AND RAISED): HELVETICA NEUE ROMAN
   g. PAPER COPY AND SYMBOL COLOR: "BLACK"
   h. RAISED COPY COLOR: A02 "BLACK"
   i. BRAILLE COLOR: TO MATCH THE BACKGROUND

SEE SHEET AE301 FOR SIGNAGE SCHEDULE.

FINISH SCHEDULE

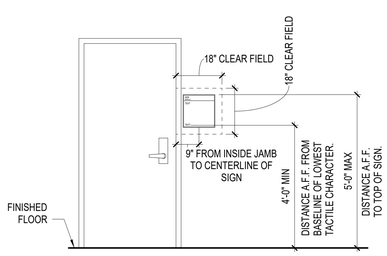
ROOM NO.	ROOM NAME	CODE FLOOR	CODE BASE	CODE WALL	CODE CEILING
FINISH FLOOR					
101	OFFICE	SC1	RB1	PT1	APC1
102	OPEN WORKSPACE	SC1	RB1*	PT1*	EXP
103	VEHICLE BAYS	SC1	RB1	PT1	EXP
104	MACHINE SHOP	SC1	RB1*	PT1*	EXP
105	UTILITY	SC1	RB1	PT1	PT2
A01	ENTRY	SC1	RB1	PT1	APC1
A02	ADA TOILET	SC1	RB1	PT1	APC1
A03	TOILET	SC1	RB1	PT1	APC1
A04	JANITOR'S CLOSET	SC1	RB1	PT1	PT2

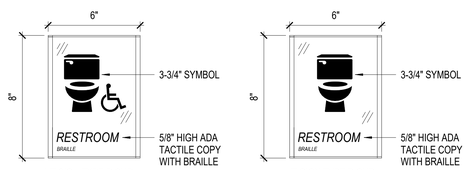
*APPLIES TO GWB WALLS ONLY.

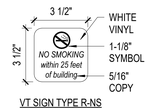


C3 NORTH ELEVATION

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



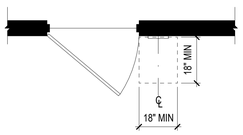




MOUNTING HEIGHT DISTANCES ALSO APPLY FOR SIGNAGE MOUNTED ON DOORS, BESIDE DOUBLE DOORS, OR IN LOCATIONS SHOWN ON PLANS AND NOT ASSOCIATED WITH A DOOR LOCATION.

B1 TYP. SIGNAGE MOUNTING HEIGHTS

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

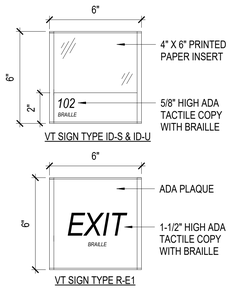


SIGNS CONTAINING TACTILE CHARACTERS SHALL HAVE AN 18" MINIMUM BY 18" MINIMUM SPACE ON THE FLOOR OR GROUND, CENTERED ON THE SIGN, BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN PANEL. SIGN SHALL BE LOCATED TO THE RIGHT SIDE OF THE DOOR FRAME. (INSTALL SIGN ON THE NEAREST ADJACENT WALL IF 18" MIN. OF CLEAR SPACE IS NOT AVAILABLE.) FOR LOCATIONS WITHOUT AVAILABLE WALL SPACE CENTER SIGN ON DOOR.

FOR SIGNS SHOWN ON PLANS THAT ARE NOT ASSOCIATED WITH A DOOR LOCATION, CLEAR SPACE BELOW THE SIGN MUST STILL BE MAINTAINED.

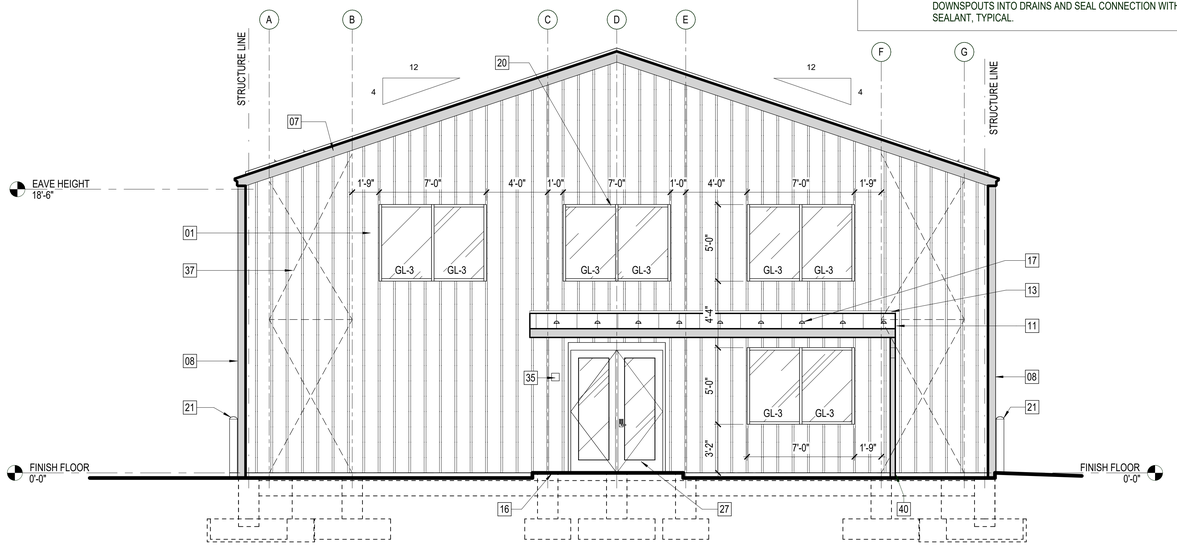
A1 TYP. SIGNAGE LOCATIONS

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



A2 SIGNAGE DETAILS

SCALE: 3" = 1'-0"



A3 SOUTH ELEVATION

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

KEY NOTES

#	
01	PEMB INSULATED METAL WALL PANEL TYPICAL
03	PEMB LINER PANEL TO 7'-0" MIN AFF. TYPICAL AT PEMB WALLS IN MACHINE SHOP, OPEN WORKSPACE, AND VEHICLE BAYS.
04	PEMB COLUMN TYPICAL
06	PEMB METAL GUTTER, MATCH PROFILE OF ADJACENT UNMANNED SYSTEMS LAB GUTTERS
07	PEMB METAL RAKE TRIM, MATCH PROFILE OF ADJACENT UNMANNED SYSTEMS LAB RAKE TRIM
08	PEMB METAL DOWNSPOUT
09	PEMB STANDING-SEAM METAL ROOF PANELS TYP
11	PEMB CANTILEVERED CANOPY
12	PEMB PORTAL FRAME COLUMN TYP
13	PEMB ROOF-TO-WALL FLASHING
14	DEFIBRILLATOR: PROVIDE ZOLL "MODEL AED 3" AUTOMATIC EXTERNAL DEFIBRILLATOR, WITH BATTERY, UNIVERSAL PADS, QUICK-RESPONSE AED PREP KIT. PROVIDE ZOLL "SEMI-RECESSED WALL CABINET", PART # 8000-001257, WITH ALARM. INSTALL CABINET AT 48" ABOVE FINISH FLOOR TO TOP OF CABINET. PROVIDE ZOLL "ADA SIGN PACKAGE". INSTALL SIGNS DIRECTLY ABOVE CABINET, WITH WALL-MOUNTED SIGN AT 6'-0" ABOVE FINISH FLOOR AND 3-D WALL SIGN AT 9'-0" ABOVE FINISH FLOOR.
15	PROVIDE CONCEALED BLOCKING IN WALL FOR FUTURE INSTALLATION OF WALL-MOUNTED VIDEO MONITOR. COORDINATE LOCATION OF BLOCKING WITH OWNER.
16	WHERE CONCRETE PAVEMENT ABUTS BUILDING EXTERIOR, STOP BOTTOM OF PEMB WALL PANEL AT FINISH FLOOR. PROVIDE CONTINUOUS SEALANT BETWEEN BOTTOM OF PEMB WALL PANEL TRIM AND CONCRETE PAVEMENT, TYPICAL.
17	SNOWGUARDS TYP
18	TOP OF WALL @ 7'-0" AFF. CAP TOP OF WALL W/ GWB.
19	CONTINUOUS 1X4 WOOD TRIM FROM FLOOR TO BOTTOM OF 1X4 WOOD TRIM AT TOP OF WALL (SEE NOTE ON A1/AE301 FOR TOP-OF-WALL WOOD TRIM). ALLOW 1" SPACE BETWEEN WOOD TRIM AND PEMB LINER PANEL. PAINT WOOD TRIM.
20	ALUMINUM STOREFRONT WINDOW TYPICAL
21	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2 AND SECTIONAL DOOR BOLLARD DETAILS ON AE302.
22	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2.
23	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2. BOLLARD INCLUDED IN ADDITIVE BID ITEM 1.
24	SOLID SURFACE MATERIAL AND ALUMINUM EXPANSION JOINT COVER TYPICAL
25	SECTIONAL OVERHEAD DOOR
26	HOLLOW METAL DOOR AND FRAME
27	ALUMINUM ENTRANCE DOORS AND FRAME
28	PUBLIC ENTRANCE
29	FIXED ALUMINUM LOUVER
30	IT EQUIPMENT CABINET
31	ADDITIVE BID ITEM 1 - STORAGE LEAN-TO: INCLUDES ROOF ASSEMBLY, DOWNSPOUTS, COLUMNS. COLUMN FOUNDATIONS, CONCRETE FLOOR SLAB, AND BOLLARDS. BASE BID: COMPONENTS LISTED AS PART OF ADDITIVE BID ITEM 1 ARE NOT PROVIDED.
32	2'-10" MAX AFF TO SINK RIM
33	WASTE CAN OFOI
34	(5) 12" X 40" X 3/4" WALL-MOUNTED PLASTIC LAMINATE-FACED SHELVES ON ADJUSTABLE BRACKETS AND (3) 60" LONG STANDARDS SPACED 16" OC AND 1'-6" AFF TO BOTTOM OF STANDARDS. STANDARDS: BHMA A156.9, B04102, DOUBLE-SLOT DESIGN, STEEL, 0.07" THICK MIN. BRACKETS: BHMA A156.9, B04112, DOUBLE-SLOT DESIGN, STEEL, 0.058" THICK MIN. PROVIDE 3 BRACKETS PER SHELF. BRACKETS EQUIPPED WITH SCREW HOLES FOR ATTACHMENT TO SHELVES. FINISH FOR STANDARDS AND BRACKETS: BAKED ENAMEL OR BAKED-ON POWDER-COAT PAINT, COLOR AS SELECTED BY OWNER. PROVIDE CONCEALED BLOCKING IN WALL FOR ATTACHMENT OF STANDARDS. SCREW-ATTACH STANDARDS TO BLOCKING AND BRACKETS TO SHELVES.
35	KNOX BOX: MOUNT AT 6'-0" ABOVE FINISH FLOOR MEASURED TO CENTERLINE OF BOX. SEE B1/AE302 FOR INSTALLATION DETAIL.
36	CONCRETE HOUSEKEEPING PAD
37	LOCATION OF PEMB DIAGONAL BRACING BETWEEN PEMB COLUMNS TYP
38	1" CLEAR SPACE BETWEEN CFS STUD WALL FRAMING AND PEMB WALL FRAMING TYPICAL
39	FLOOR RECESS AT OVERHEAD DOORS - SEE DETAILS C4/AE601 & C5/AE601
40	EXTEND UNDERGROUND DRAINS UP TO DAYLIGHT. INCREASE PIPE SIZE AS NEEDED TO FIT DOWNSPOUTS. OFFSET DOWNSPOUT ENDS WHERE NECESSARY TO CONNECT TO DRAIN. EXTEND DOWNSPOUTS INTO DRAINS AND SEAL CONNECTION WITH SEALANT, TYPICAL.

GRAPHIC SCALE(S)

1/4" = 1' - 0" 0 1' 5' 10' 15'

VIRGINIA TECH NON-CAPITAL CONSTRUCTION

FORESTRY RESEARCH OPERATIONS CENTER

140 INVENTIVE LANE
BLACKSBURG, VA 24061

VT PROJECT CODE WO# 26-819490

DESIGNER

CLARKNEXSEN
A JMT Company

213 SOUTH JEFFERSON, SUITE 1011
ROANOKE, VIRGINIA 24011
540·982·0800

PROFESSIONAL SEAL

COMMONWEALTH OF VIRGINIA
SUSAN A. DREW
Cert. No. 000453
10-23-2025
REGISTERED INTERIOR DESIGNER

COMMONWEALTH OF VIRGINIA
JOHN C. SHIELDS
Lic. No. 7476
REGISTERED ARCHITECT

UBO CONFORMANCE

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REVISIONS

KEY PLAN

SHEET

EXTERIOR ELEVATIONS, FINISH SCHEDULE & SIGNAGE DETAILS

AE202

DESIGN: JCS
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VT: FORESTRY RESEARCH OPERATIONS CENTER			Level: GROUND
Signage Schedule			Type: Metal Color: Silver

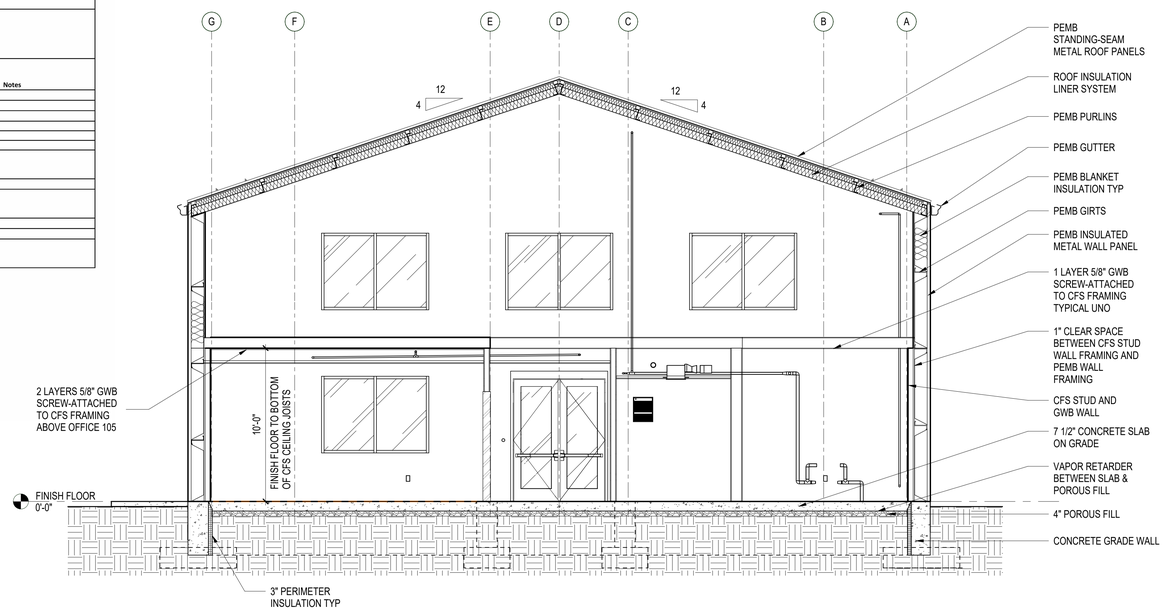
KEY

R: Regulatory Signage (Required for Occupancy)
- Regulatory signage to be highlighted at the top section of spreadsheet for each floor.
- Standard regulatory signage labels cannot be changed without VT approval.
- Frame, content, and installation by CM.

ID: Room Identification Signage (Utility & Standard)
- Content to be generated from labels on architectural plans by A/E.
- Final VT content development by VT-OUP / department representative.
- FF&E work order to VT-Print Services for content.
- Frame and installation by CM.

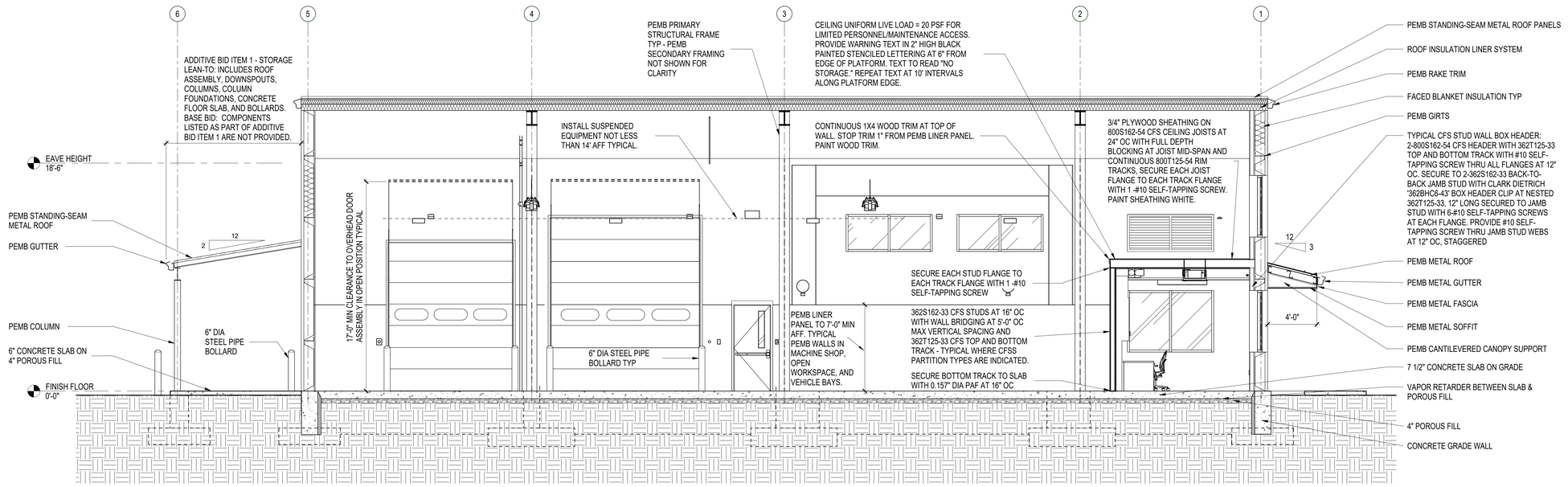
E-MAP / DIR / INFO: Emergency Egress, Directional / Directory, & Informational Signage
- Frame, content, and installation by CM.
- Graphic layouts by A/E using VT supplied .ai templates.
- A/E Deliverable - Adobe Illustrator electronic files to OUP for future changes.

Arch. Room #	Sign Type	Permanent Message: Room # Braille	Installation Type	Display: Insert Message	Notes
105	ID-U	UTILITY	Wall		
A04	ID-U	JANITOR'S CLOSET	Wall		
A03	R-SUR	TOILET	Wall	Toilet Symbol	
A02	R-SUR	ADA TOILET	Wall	Toilet and ADA Symbol	
A01.1	R-E1	EXIT	Wall		
A01.2	ID-S	ENTRY	Wall		
A01.3	R-NS	NO SMOKING WITHIN 25 FEET OF BUILDING	Exterior Wall	No Smoking Symbol	
101	ID-S	OFFICE	Door		
103.1	R-NS	NO SMOKING WITHIN 25 FEET OF BUILDING	Exterior Wall	No Smoking Symbol	
103.2	R-E1	EXIT	Wall		
103.3	R-E1	EXIT	Wall		
103.4	R-NS	NO SMOKING WITHIN 25 FEET OF BUILDING	Exterior Wall	No Smoking Symbol	



C1 TRANSVERSE BUILDING SECTION

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



A1 LONGITUDINAL BUILDING SECTION

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

GENERAL NOTES

THESE NOTES APPLY TO ALL BUILDING SECTIONS.

1. PAINT PRIMARY AND SECONDARY PEMB FRAMING EXPOSED TO VIEW.

GRAPHIC SCALE(S)

1/4" = 1' - 0" 0 1' 5' 10' 15'

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COMMONWEALTH OF VIRGINIA — SUSAN A. DREW — Cert. No. 000453 — 10-23-2026 — CERTIFIED INTERIOR DESIGNER

COMMONWEALTH OF VIRGINIA — JOHN C. SHIELDS — Lic. No. 7476 — John Shields — 10/23/2026 — ARCHITECT

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KEY PLAN

SHEET

BUILDING SECTIONS

AE301

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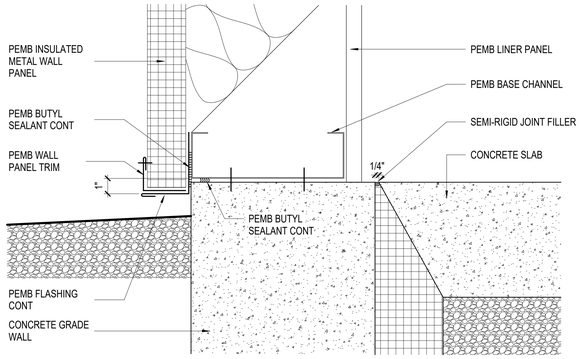
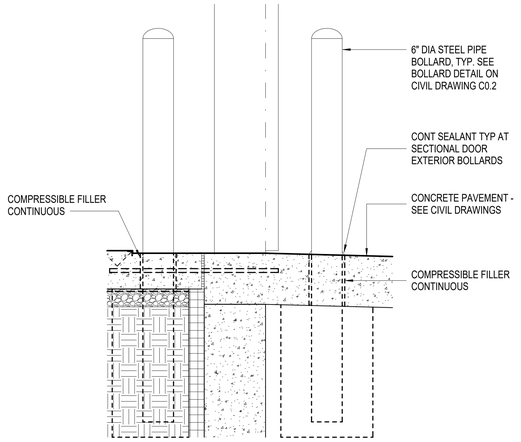
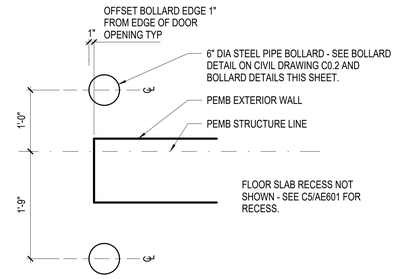


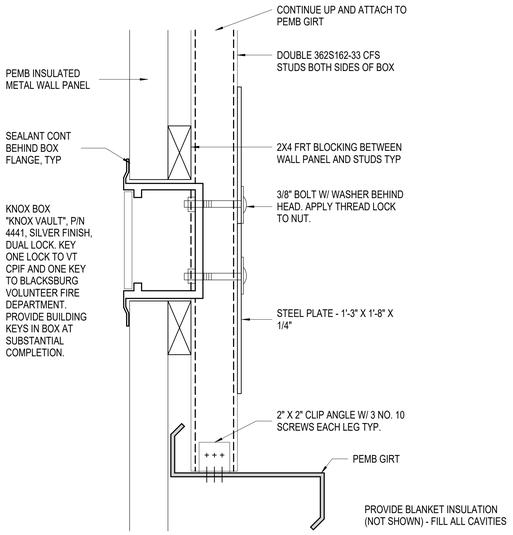
D1 WALL BASE DETAIL
SCALE: 3" = 1'-0"



D3 BOLLARD DETAIL AT SECTIONAL DOORS
SCALE: 1" = 1'-0"



D4 BOLLARD PLAN DETAIL AT SECTIONAL DOORS
SCALE: 1" = 1'-0"



B1 KNOX BOX DETAIL
SCALE: 3" = 1'-0"

GRAPHIC SCALE(S)

1" = 1' - 0" 0 6" 1' 2' 3'

3/4" = 1' - 0" 0 6" 1' 2' 3' 4' 5'

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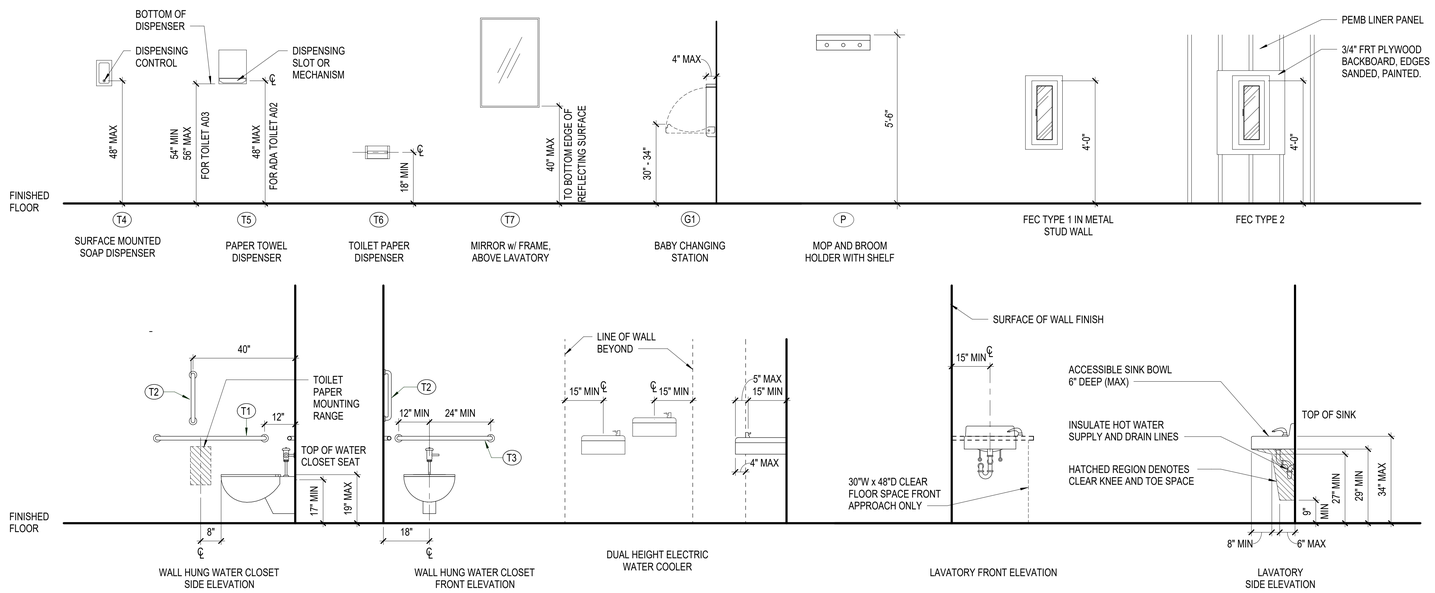
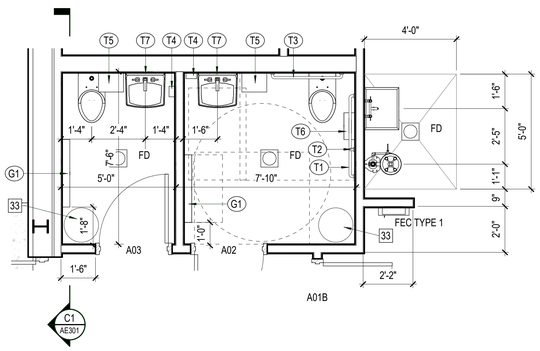


TYPICAL TOILET ACCESSORIES - MOUNTING HEIGHTS

1"=1/2"



B1 ENLARGED TOILET PLAN

SCALE: 3/8" = 1'-0"

LEGEND

#	Description	BASIS OF DESIGN
G1	BABY CHANGING STATION	KOALA KARE KB300
T1	42" HORIZONTAL GRAB BAR	BOBRICK B-6806
T2	18" VERTICAL GRAB BAR	BOBRICK B-6806
T3	36" GRAB BAR	BOBRICK B-6806
T4	SURFACE MOUNTED SOAP DISPENSER	OFCI
T5	PAPER TOWEL DISPENSER	OFCI
T6	3 ROLL TOILET PAPER DISPENSER	OFCI
T7	18"W x 36"H MIRROR	BOBRICK B-165

MANUFACTURERS AND MODEL NUMBERS INDICATED ARE BASIS OF DESIGN ONLY UNLESS OTHERWISE NOTED

GENERAL NOTES

1. ACCESSORY AND FIXTURE MOUNTING HEIGHTS ARE BASED UPON 2010 ADAAG, ANSI A117.1 - 2017 AND 2021 VIRGINIA CONSTRUCTION CODE. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTORS TO ENSURE THAT ALL PLUMBING FIXTURES AND TOILET ROOM ACCESSORIES ARE INSTALLED IN ACCORDANCE WITH THESE GUIDELINES AND CODES.
2. HORIZONTAL GRAB BARS IN TOILET & SHOWERS TO BE MOUNTED SO THAT THE TOP OF THE GRIPPING SURFACE IS AT 33" MIN / 36" MAX AFF.
3. HIGHEST CONTROL, OPERATING MECHANISM OR DISPENSING SLOT OF ALL TOILET ROOM ACCESSORIES SHALL BE NO MORE THAN 48" ABOVE FINISHED FLOOR.
4. ALL OPERATING MECHANISMS SHALL NOT REQUIRE MORE THAN 5LB. MAX OPERATING FORCE.
5. PROVIDE BLOCKING AT ALL PLUMBING FIXTURE AND ACCESSORY LOCATIONS ADEQUATE TO SUPPORT MIN 250 LB LOAD, UON.
6. OBJECTS WITH LEADING EDGES MORE THAN 27" ABOVE FINISHED FLOOR AND NOT MORE THAN 80" ABOVE FINISHED FLOOR SHALL NOT PROTRUDE MORE THAN 4" HORIZONTALLY INTO THE CIRCULATION PATH.
7. DIAMETER OF THE GRIPPING SURFACE OF A HANDRAIL MUST BE 1 1/4" - 1 1/2". THE SPACE BETWEEN A WALL AND A GRAB BAR MUST BE 1 1/2".

KEY NOTES

#	
01	PEMB INSULATED METAL WALL PANEL TYPICAL
03	PEMB LINER PANEL TO 7'-0" MIN AFF. TYPICAL AT PEMB WALLS IN MACHINE SHOP, OPEN WORKSPACE, AND VEHICLE BAYS.
04	PEMB COLUMN TYPICAL
06	PEMB METAL GUTTER, MATCH PROFILE OF ADJACENT UNMANNED SYSTEMS LAB GUTTERS
07	PEMB METAL RAKE TRIM, MATCH PROFILE OF ADJACENT UNMANNED SYSTEMS LAB RAKE TRIM
08	PEMB METAL DOWNSPOUT
09	PEMB STANDING-SEAM METAL ROOF PANELS TYP
11	PEMB CANTILEVERED CANOPY
12	PEMB PORTAL FRAME COLUMN TYP
13	PEMB ROOF-TO-WALL FLASHING
14	DEFIBRILLATOR: PROVIDE ZOLL "MODEL AED 3" AUTOMATIC EXTERNAL DEFIBRILLATOR, WITH BATTERY, UNIVERSAL PADS, QUICK-RESPONSE AED PREP KIT. PROVIDE ZOLL "SEMI-RECESSED WALL CABINET", PART # 8000-001257, WITH ALARM. INSTALL CABINET AT 48" ABOVE FINISH FLOOR TO TOP OF CABINET. PROVIDE ZOLL "ADA SIGN PACKAGE". INSTALL SIGNS DIRECTLY ABOVE CABINET, WITH WALL-MOUNTED SIGN AT 6'-0" ABOVE FINISH FLOOR AND 3-D WALL SIGN AT 9'-0" ABOVE FINISH FLOOR.
15	PROVIDE CONCEALED BLOCKING IN WALL FOR FUTURE INSTALLATION OF WALL-MOUNTED VIDEO MONITOR. COORDINATE LOCATION OF BLOCKING WITH OWNER.
16	WHERE CONCRETE PAVEMENT ABUTS BUILDING EXTERIOR, STOP BOTTOM OF PEMB WALL PANEL AT FINISH FLOOR. PROVIDE CONTINUOUS SEALANT BETWEEN BOTTOM OF PEMB WALL PANEL TRIM AND CONCRETE PAVEMENT, TYPICAL.
17	SNOWGUARDS TYP
18	TOP OF WALL @ 7'-0" AFF. CAP TOP OF WALL W/ GWB.
19	CONTINUOUS 1X4 WOOD TRIM FROM FLOOR TO BOTTOM OF 1X4 WOOD TRIM AT TOP OF WALL (SEE NOTE ON A1/AE301 FOR TOP-OF-WALL WOOD TRIM). ALLOW 1" SPACE BETWEEN WOOD TRIM AND PEMB LINER PANEL. PAINT WOOD TRIM.
20	ALUMINUM STOREFRONT WINDOW TYPICAL
21	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2 AND SECTIONAL DOOR BOLLARD DETAILS ON AE302.
22	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2.
23	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2. BOLLARD INCLUDED IN ADDITIVE BID ITEM 1.
24	SOLID SURFACE MATERIAL AND ALUMINUM EXPANSION JOINT COVER TYPICAL
25	SECTIONAL OVERHEAD DOOR
26	HOLLOW METAL DOOR AND FRAME
27	ALUMINUM ENTRANCE DOORS AND FRAME
28	PUBLIC ENTRANCE
29	FIXED ALUMINUM LOUVER
30	IT EQUIPMENT CABINET
31	ADDITIVE BID ITEM 1 - STORAGE LEAN-TO: INCLUDES ROOF ASSEMBLY, DOWNSPOUTS, COLUMNS, COLUMN FOUNDATIONS, CONCRETE FLOOR SLAB, AND BOLLARDS. BASE BID: COMPONENTS LISTED AS PART OF ADDITIVE BID ITEM 1 ARE NOT PROVIDED.
32	2'-10" MAX AFF TO SINK RIM
33	WASTE CAN OFOI
34	(5) 12" X 40" X 3/4" WALL-MOUNTED PLASTIC LAMINATE-FACED SHELVES ON ADJUSTABLE BRACKETS AND (3) 60" LONG STANDARDS SPACED 16" OC AND 1'-6" AFF TO BOTTOM OF STANDARDS. STANDARDS: BHMA A156.9, B04102, DOUBLE-SLOT DESIGN, STEEL, 0.07" THICK MIN. BRACKETS: BHMA A156.9, B04112, DOUBLE-SLOT DESIGN, STEEL, 0.058" THICK MIN. PROVIDE 3 BRACKETS PER SHELF. BRACKETS EQUIPPED WITH SCREW HOLES FOR ATTACHMENT TO SHELVES. FINISH FOR STANDARDS AND BRACKETS: BAKED ENAMEL OR BAKED-ON POWDER-COAT PAINT, COLOR AS SELECTED BY OWNER. PROVIDE CONCEALED BLOCKING IN WALL FOR ATTACHMENT OF STANDARDS. SCREW-ATTACH STANDARDS TO BLOCKING AND BRACKETS TO SHELVES.
35	KNOX BOX: MOUNT AT 6'-0" ABOVE FINISH FLOOR MEASURED TO CENTERLINE OF BOX. SEE B1/AE302 FOR INSTALLATION DETAIL.
36	CONCRETE HOUSEKEEPING PAD
37	LOCATION OF PEMB DIAGONAL BRACING BETWEEN PEMB COLUMNS TYP
38	1" CLEAR SPACE BETWEEN CFS STUD WALL FRAMING AND PEMB WALL FRAMING TYPICAL
39	FLOOR RECESS AT OVERHEAD DOORS - SEE DETAILS C4/AE601 & C5/AE601
40	EXTEND UNDERGROUND DRAINS UP TO DAYLIGHT. INCREASE PIPE SIZE AS NEEDED TO FIT DOWNSPOUTS. OFFSET DOWNSPOUT ENDS WHERE NECESSARY TO CONNECT TO DRAIN. EXTEND DOWNSPOUTS INTO DRAINS AND SEAL CONNECTION WITH SEALANT, TYPICAL.

GRAPHIC SCALE(S)

1/2" = 1' - 0" 0 6" 1' 2' 3' 4' 5'

3/8" = 1' - 0" 0 1' 2' 3' 4' 5' 10'

VIRGINIA TECH NON-CAPITAL CONSTRUCTION

FORESTRY RESEARCH OPERATIONS CENTER

140 INVENTIVE LANE
BLACKSBURG, VA 24061

VT PROJECT CODE WO# 26-819490

DESIGNER

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JOHN C. SHIELDS
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UBO CONFORMANCE

SUBMITTAL

10/23/2026

ISSUED FOR CONSTRUCTION

REVISIONS

KEY PLAN

SHEET

ENLARGED PLUMBING PLAN

AE401

DESIGN: JCS
DRAWN: ES & NK
REVIEW: DP

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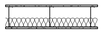
PARTITION TYPES









TYPE	SYMBOL	TAG	DESCRIPTION
S *- STL STUD*		S4	3 5/8" STL STUDS WITH 5/8" GWB EACH SIDE
SN *- STL STUD* *- INSULATED*		S4N	3 5/8" STL STUDS WITH 5/8" GWB EACH SIDE AND 3 1/2" FACED FIBERGLASS INSULATION
		S8N	8" STL STUDS WITH 5/8" GWB EACH SIDE AND 3 1/2" FACED FIBERGLASS INSULATION
CFSSN *- CFS STUD* *- INSULATED*		CFSSE4N	3 5/8" CFS STUDS @ 16" OC WITH 5/8" GWB ONE SIDE AND 3 1/2" FACED FIBERGLASS INSULATION
		CFSS4N	3 5/8" CFS STUDS @ 16" OC WITH 5/8" GWB ONE SIDE AND 5/8" ABUSE-RESISTANT GWB ON MACHINE SHOP/OPEN WORKSPACE SIDE AND 3 1/2" FACED FIBERGLASS INSULATION
		CFSS4N2	3 5/8" CFS STUDS @ 16" OC WITH TWO LAYERS 5/8" GWB OFFICE 101 SIDE AND 5/8" ABUSE-RESISTANT GWB ON MACHINE SHOP/OPEN WORKSPACE SIDE AND 3 1/2" FACED FIBERGLASS INSULATION





GENERAL PARTITION NOTES:

1. NON-STRUCTURAL METAL STUD GAUGE AND SPACING TO BE DETERMINED BY METAL STUD MANUFACTURER GUIDELINES AND TEST REPORTS IN ORDER TO MEET THE FOLLOWING PERFORMANCE REQUIREMENTS FOR HORIZONTAL DEFLECTION, UON IN THE SPECIFICATIONS.
   A. TYPICAL PARTITION STUD GAUGE SHALL BE DESIGNED TO AN L/240 DEFLECTION OR LESS AS REQUIRED BY CODE, UON.
2. PARTITION DIMENSIONING AND PARTITION TYPE DESIGNATIONS ARE INDEPENDENT OF APPLIED FINISHES. REFER TO FINISH SCHEDULE FOR INFORMATION REGARDING APPLIED FINISHES.
3. ALL PARTITIONS TO RUN FROM FINISH FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, UON.
4. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING IN METAL STUD PARTITIONS FOR MOUNTING FIXTURES, CASEWORK, HARDWARE, DOOR STOPS AND OTHER EQUIPMENT.
5. PROVIDE MOLD-RESISTANT GWB IN TOILETS AND WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF SINKS.
6. SEE ADDITIONAL NOTES ON A1/AE301 LONGITUDINAL SECTION REGARDING CONSTRUCTION OF CFS STUD WALLS.

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ARCHITECT

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KEY PLAN

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PARTITION TYPES AND DETAILS

AE501

DESIGN: JCS
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REVIEW: DP

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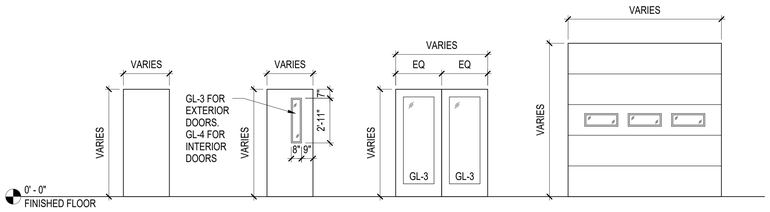
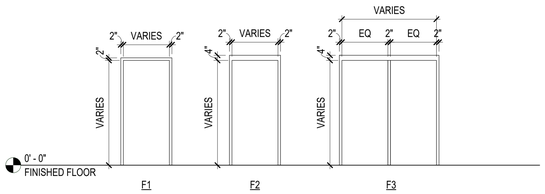
DOOR SCHEDULE

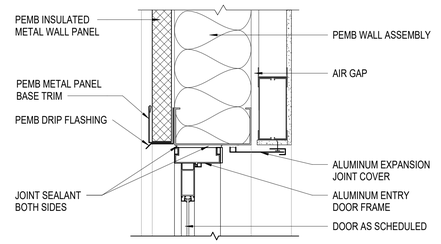
DOOR NO.	ROOM NAME	DOOR					FRAME		DETAIL REFERENCES			HARDWARE				FIRE RATING	COMMENTS
		TOTAL WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL	SET # (SEE SPECS)	CR	ADO	PED		
FINISH FLOOR																	
101	OFFICE	3'-0"	7'-0"	1 3/4"	D1	HM	F1	HM	A4	B3	A3	5	-	-	-	-	
103A	VEHICLE BAYS	3'-0"	7'-0"	1 3/4"	D2	HM	F2	HM	B5	B4	A5	7	-	YES	YES	-	
103B	VEHICLE BAYS	3'-0"	7'-0"	1 3/4"	D2	HM	F1	HM	B5	B4	A5	6	-	-	YES	-	
103C	VEHICLE BAYS	12'-0"	14'-0"	1 1/2"	D4	STL	-	-	D5	C5	C4	-	-	-	-	-	
103D	VEHICLE BAYS	10'-0"	12'-0"	1 1/2"	D4	STL	-	-	D5	C5	C4	-	-	-	-	-	
103E	VEHICLE BAYS	12'-0"	14'-0"	1 1/2"	D4	STL	-	-	D5	C5	C4	-	-	-	-	-	
105	UTILITY	3'-6"	7'-0"	1 3/4"	D1	HM	F1	HM	A4	B3	A3	1	-	-	-	-	
A01A	ENTRY	6'-0"	8'-0"	-	D3	ALUM	F3	ALUM	E4	E5	D4	3	YES	YES	YES	-	
A01B	ENTRY	3'-0"	7'-0"	1 3/4"	D2	HM	F2	HM	A4	B3	A3	4	-	YES	YES	-	
A02	ADA TOILET	3'-0"	7'-0"	1 3/4"	D1	HM	F2	HM	A4	B3	A3	2	-	YES	-	-	
A03	TOILET	3'-0"	7'-0"	1 3/4"	D1	HM	F2	HM	A4	B3	A3	2	-	YES	-	-	
A04	JANITOR'S CLOSET	3'-0"	7'-0"	1 3/4"	D1	HM	F1	HM	A4	B3	A3	8	-	-	-	-	

CR = CARD READER
ADO = AUTOMATIC DOOR OPERATOR
PED = PANIC EXIT DEVICE

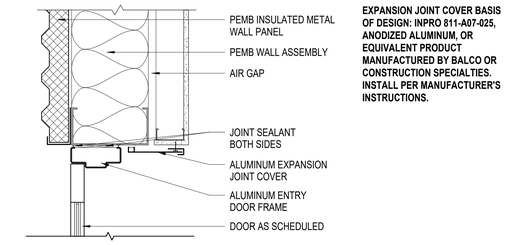




C1 DOOR AND FRAME TYPES
SCALE: 1/4" = 1'-0"

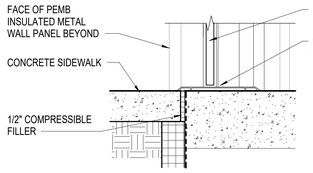


E4 CONDITIONED SPACE - DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



EXPANSION JOINT COVER BASIS OF DESIGN: INPRO 811-A07-025, ANODIZED ALUMINUM, OR EQUIVALENT PRODUCT MANUFACTURED BY BALCO OR CONSTRUCTION SPECIALTIES. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

E5 CONDITIONED SPACE - DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



D4 CONDITIONED SPACE-DOOR SILL DETAIL
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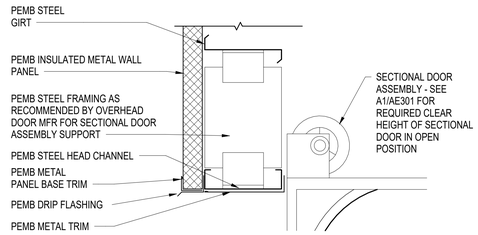
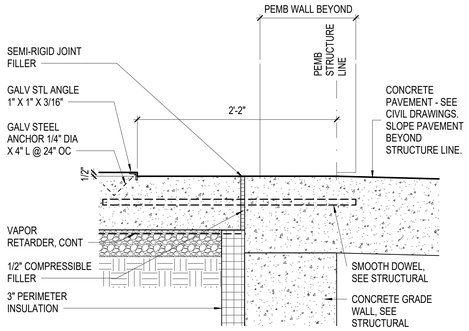


D5 SECTIONAL DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



C4 SECTIONAL DOOR SILL DETAIL
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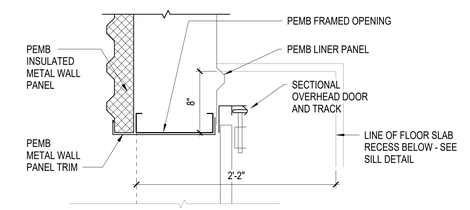
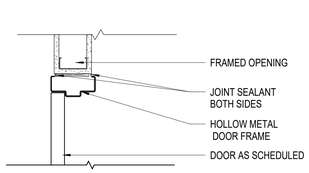
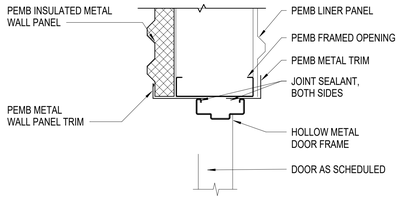


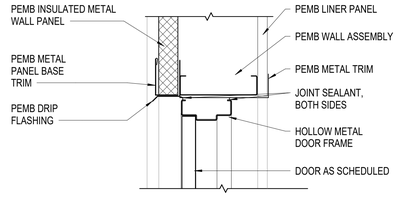
C5 SECTIONAL DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



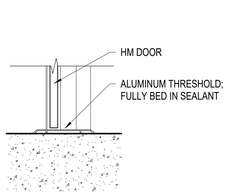
B3 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



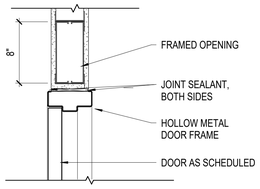
B4 PEMB WALL DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



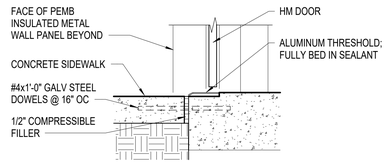
B5 PEMB WALL DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



A3 DOOR SILL DETAIL
SCALE: 1 1/2" = 1'-0"



A4 DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



A5 PEMB WALL DOOR SILL DETAIL
SCALE: 1 1/2" = 1'-0"

VIRGINIA TECH NON-CAPITAL CONSTRUCTION

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KEY PLAN

SHEET

DOOR SCHEDULE AND DETAILS

AE601

DESIGN: JCS
DRAWN: ES & NK
REVIEW: DP

CN 11053

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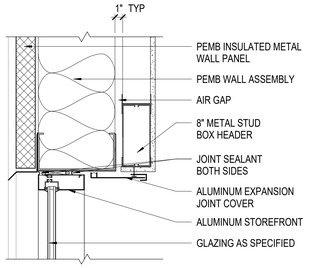
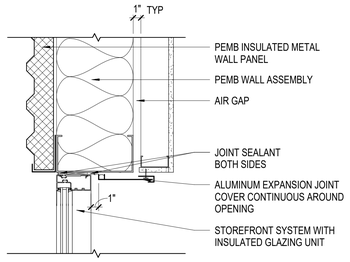


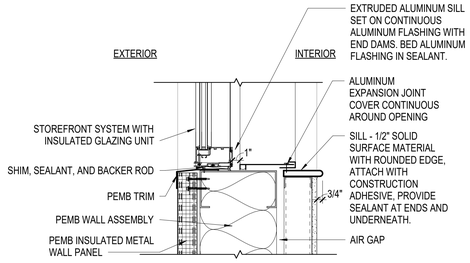
D1 CONDITIONED SPACE - WINDOW HEAD DETAIL

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



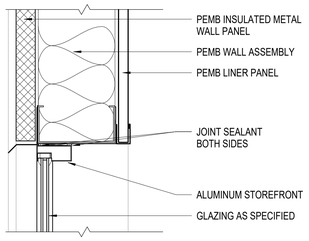
D2 CONDITIONED SPACE - WINDOW JAMB DETAIL

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



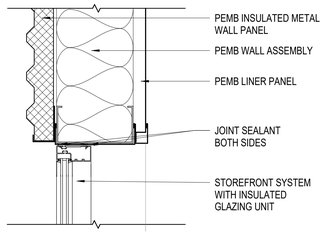
D3 CONDITIONED SPACE - WINDOW SILL DETAIL

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



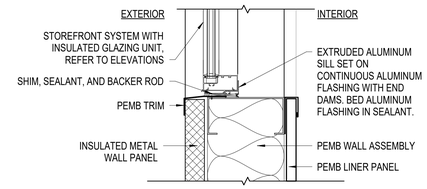
C1 WINDOW HEAD DETAIL

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



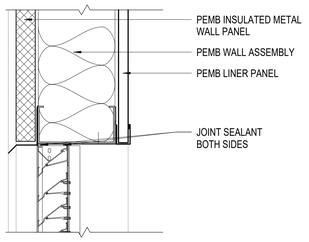
C2 WINDOW JAMB DETAIL

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



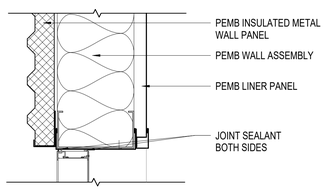
C3 WINDOW SILL DETAIL

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



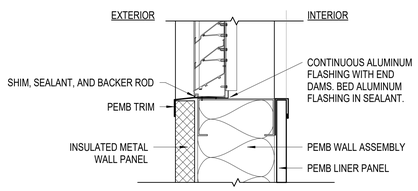
B1 LOUVER HEAD DETAIL

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



B2 LOUVER JAMB DETAIL

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



B3 LOUVER SILL DETAIL

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

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FORESTRY RESEARCH OPERATIONS CENTER

140 INVENTIVE LANE
BLACKSBURG, VA 24061

VT PROJECT CODE WO# 26-819490

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UBO CONFORMANCE

SUBMITTAL

10/23/2026

ISSUED FOR CONSTRUCTION

REVISIONS

KEY PLAN

SHEET

WINDOW DETAILS

AE602

DESIGN: JCS
DRAWN: ES & NK
REVIEW: DP

CN 11053

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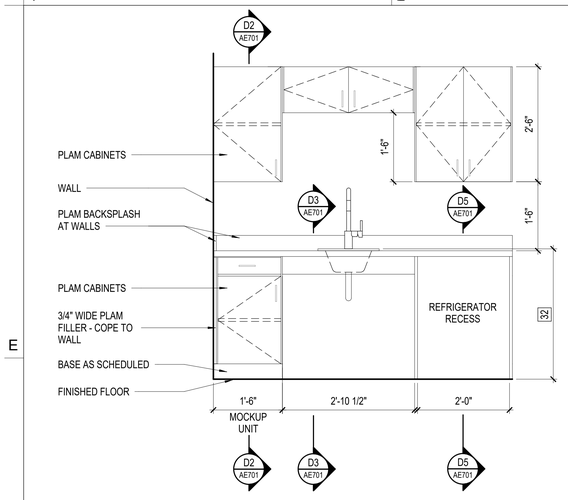
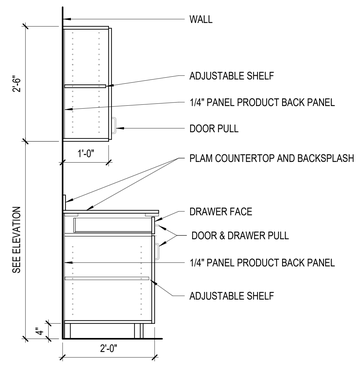


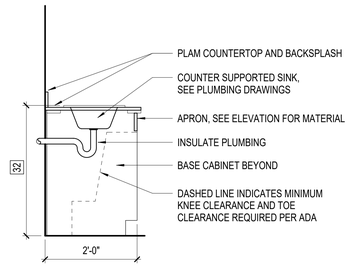
D1 ENTRY COUNTER & SINK

SCALE: 3/4" = 1'-0"



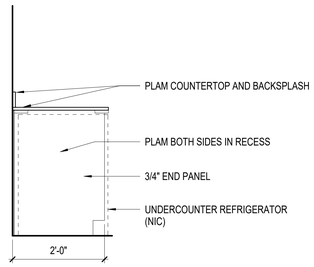
D2 BASE CABINET - DRAWER & DOOR

SCALE: 3/4" = 1'-0"



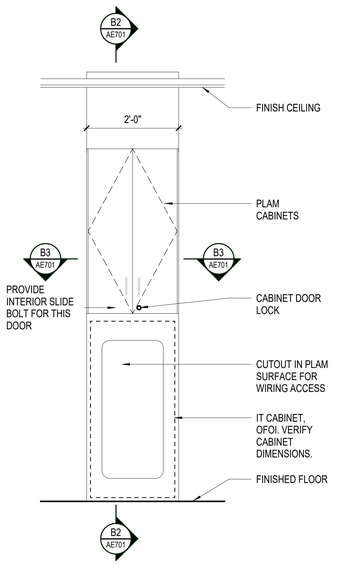
D3 BASE CABINET - ACCESSIBLE SINK UNIT

SCALE: 3/4" = 1'-0"



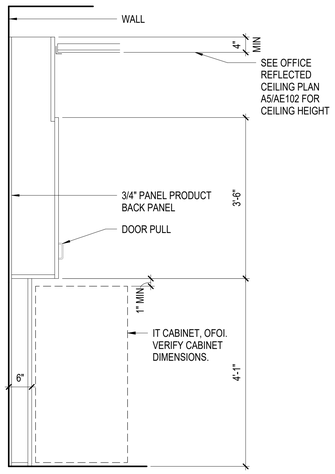
D5 BASE CABINET - ACCESSIBLE REFRIGERATOR

SCALE: 3/4" = 1'-0"



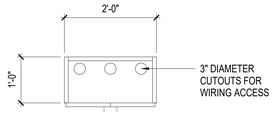
B1 NETWORKING CABINET

SCALE: 3/4" = 1'-0"



B2 NETWORKING CABINET SECTION

SCALE: 3/4" = 1'-0"



B3 NETWORKING CABINET PLAN

SCALE: 3/4" = 1'-0"

KEY NOTES

#	
01	PEMB INSULATED METAL WALL PANEL TYPICAL
03	PEMB LINER PANEL TO 7'-0" MIN AFF. TYPICAL AT PEMB WALLS IN MACHINE SHOP, OPEN WORKSPACE, AND VEHICLE BAYS.
04	PEMB COLUMN TYPICAL
06	PEMB METAL GUTTER, MATCH PROFILE OF ADJACENT UNMANNED SYSTEMS LAB GUTTERS
07	PEMB METAL RAKE TRIM, MATCH PROFILE OF ADJACENT UNMANNED SYSTEMS LAB RAKE TRIM
08	PEMB METAL DOWNSPOUT
09	PEMB STANDING-SEAM METAL ROOF PANELS TYP
11	PEMB CANTILEVERED CANOPY
12	PEMB PORTAL FRAME COLUMN TYP
13	PEMB ROOF-TO-WALL FLASHING
14	DEFIBRILLATOR: PROVIDE ZOLL "MODEL AED 3" AUTOMATIC EXTERNAL DEFIBRILLATOR, WITH BATTERY, UNIVERSAL PADS, QUICK-RESPONSE AED PREP KIT. PROVIDE ZOLL "SEMI-RECESSED WALL CABINET", PART # 8000-001257, WITH ALARM. INSTALL CABINET AT 48" ABOVE FINISH FLOOR TO TOP OF CABINET. PROVIDE ZOLL "ADA SIGN PACKAGE". INSTALL SIGNS DIRECTLY ABOVE CABINET, WITH WALL-MOUNTED SIGN AT 6'-0" ABOVE FINISH FLOOR AND 3-D WALL SIGN AT 9'-0" ABOVE FINISH FLOOR.
15	PROVIDE CONCEALED BLOCKING IN WALL FOR FUTURE INSTALLATION OF WALL-MOUNTED VIDEO MONITOR. COORDINATE LOCATION OF BLOCKING WITH OWNER.
16	WHERE CONCRETE PAVEMENT ABUTS BUILDING EXTERIOR, STOP BOTTOM OF PEMB WALL PANEL AT FINISH FLOOR. PROVIDE CONTINUOUS SEALANT BETWEEN BOTTOM OF PEMB WALL PANEL TRIM AND CONCRETE PAVEMENT, TYPICAL.
17	SNOWGUARDS TYP
18	TOP OF WALL @ 7'-0" AFF. CAP TOP OF WALL W/ GWB.
19	CONTINUOUS 1X4 WOOD TRIM FROM FLOOR TO BOTTOM OF 1X4 WOOD TRIM AT TOP OF WALL (SEE NOTE ON A1/AE301 FOR TOP-OF-WALL WOOD TRIM). ALLOW 1" SPACE BETWEEN WOOD TRIM AND PEMB LINER PANEL. PAINT WOOD TRIM.
20	ALUMINUM STOREFRONT WINDOW TYPICAL
21	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2 AND SECTIONAL DOOR BOLLARD DETAILS ON AE302.
22	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2.
23	6" DIA STEEL PIPE BOLLARD TYP. SEE BOLLARD DETAIL ON CIVIL DRAWING C0.2. BOLLARD INCLUDED IN ADDITIVE BID ITEM 1.
24	SOLID SURFACE MATERIAL AND ALUMINUM EXPANSION JOINT COVER TYPICAL
25	SECTIONAL OVERHEAD DOOR
26	HOLLOW METAL DOOR AND FRAME
27	ALUMINUM ENTRANCE DOORS AND FRAME
28	PUBLIC ENTRANCE
29	FIXED ALUMINUM LOUVER
30	IT EQUIPMENT CABINET
31	ADDITIVE BID ITEM 1 - STORAGE LEAN-TO: INCLUDES ROOF ASSEMBLY, DOWNSPOUTS, COLUMNS, COLUMN FOUNDATIONS, CONCRETE FLOOR SLAB, AND BOLLARDS. BASE BID: COMPONENTS LISTED AS PART OF ADDITIVE BID ITEM 1 ARE NOT PROVIDED.
32	2'-10" MAX AFF TO SINK RIM
33	WASTE CAN OFOI
34	(5) 12" X 40" X 3/4" WALL-MOUNTED PLASTIC LAMINATE-FACED SHELVES ON ADJUSTABLE BRACKETS AND (3) 60" LONG STANDARDS SPACED 16" OC AND 1'-6" AFF TO BOTTOM OF STANDARDS. STANDARDS: BHMA A156.9, B04102, DOUBLE-SLOT DESIGN, STEEL, 0.07" THICK MIN. BRACKETS: BHMA A156.9, B04112, DOUBLE-SLOT DESIGN, STEEL, 0.058" THICK MIN. PROVIDE 3 BRACKETS PER SHELF. BRACKETS EQUIPPED WITH SCREW HOLES FOR ATTACHMENT TO SHELVES. FINISH FOR STANDARDS AND BRACKETS: BAKED ENAMEL OR BAKED-ON POWDER-COAT PAINT, COLOR AS SELECTED BY OWNER. PROVIDE CONCEALED BLOCKING IN WALL FOR ATTACHMENT OF STANDARDS. SCREW-ATTACH STANDARDS TO BLOCKING AND BRACKETS TO SHELVES.
35	KNOX BOX: MOUNT AT 6'-0" ABOVE FINISH FLOOR MEASURED TO CENTERLINE OF BOX. SEE B1/AE302 FOR INSTALLATION DETAIL.
36	CONCRETE HOUSEKEEPING PAD
37	LOCATION OF PEMB DIAGONAL BRACING BETWEEN PEMB COLUMNS TYP
38	1" CLEAR SPACE BETWEEN CFS STUD WALL FRAMING AND PEMB WALL FRAMING TYPICAL
39	FLOOR RECESS AT OVERHEAD DOORS - SEE DETAILS C4/AE601 & C5/AE601
40	EXTEND UNDERGROUND DRAINS UP TO DAYLIGHT. INCREASE PIPE SIZE AS NEEDED TO FIT DOWNSPOUTS. OFFSET DOWNSPOUT ENDS WHERE NECESSARY TO CONNECT TO DRAIN. EXTEND DOWNSPOUTS INTO DRAINS AND SEAL CONNECTION WITH SEALANT, TYPICAL.

GRAPHIC SCALE(S)

3/4" = 1' - 0" 0 6" 1' 2' 3' 4' 5'

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CASEWORK ELEVATIONS, SECTIONS & DETAILS

AE701

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REVIEW: DP

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