PROJECT INFORMATION

VA | U.S. Department of Veterans Affairs

UPGRADE PROSTHETICS LAB

VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS

385 Tremont Avenue, East Orange, NJ 07018

PROJECT CONTACT DIRECTORY

CONTRACT OFFICER/SPECIALIST

Ms. Mitchelle R. Labady
Mitchelle.Labady@va.gov

CONTRACTING OFFICER REPRESENTATIVE (COR)

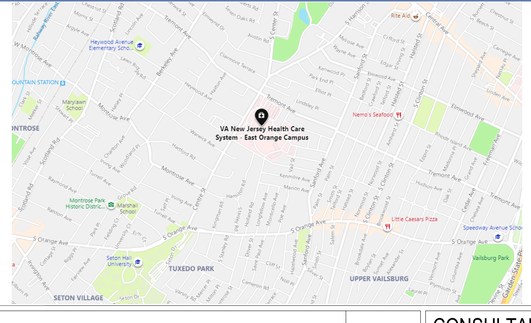
Patricia Y. Bonilla
Patricia.Bonilla@va.gov
Cell: 862-285-0111
Office. 973-676-1000 X 1650

ARCHITECT / MEP/FP & STRUCTURAL ENGINEERS

acela architects + engineers, pc
2633 Moravian Avenue
Allentown, PA 18103

Joseph L. Herman, AIA, NCARB, LEED AP
Cell: (610) 417-7850
jherman@acela-ae.com

LOCATION MAP



APPROVALS

Approved by Medical Center Director	Approved by Director of Facility Management Service
Approved by Project COR	Approved by Medical Director
Approved by Infection Control	Approved by Safety Officer
Approved by CO	

LIST OF DRAWINGS

GENERAL INFORMATION

1	GI101	COVER SHEET
2	GI102	GENERAL INFORMATION, SYMBOLS & GENERAL NOTES
3	GI201	LIFE SAFETY PLAN
4	GI301	ICRA PLAN, DETAILS & NOTES
5	GI401	EXISTING CONDITION PHOTOS

GENERAL CONTRACT

6	GC101	DOOR & WINDOW SCHEDULE & DETAILS
7	GC102	PARTITION TYPES
8	GC103	STANDARDS & TYPICAL DETAILS

ASBESTOS / LEAD ABATEMENT

9	HA101	A LEVEL ASBESTOS ABATEMENT PLANS

ARCHITECTURAL DEMOLITION

10	AD101	A LEVEL - FLOOR & REFLECTED CEILING PLANS - DEMOLITION

ARCHITECTURAL ELEMENTS

11	AE101	A LEVEL - FLOOR PLANS - NEW WORK
12	AE102	A LEVEL - REFLECTED CEILING PLANS - NEW WORK
13	AE103	REFLECTED CEILING PLAN DETAILS
14	AE201	A LEVEL ENLARGED PLANS, ELEVATIONS & DETAILS
15	AE202	A LEVEL ENLARGED PLANS, ELEVATIONS & DETAILS
16	AE203	INTERIOR ELEVATIONS
17	AE204	INTERIOR ELEVATIONS
18	AE401	CASEWORK DETAILS
19	AE501	EXTERIOR WALL LOUVER DETAILS

ARCHITECTURAL INTERIORS

20	AI101	INTERIOR FINISH LEGEND, FLOOR FINISH PLAN & SCHEDULE
21	AI102	WALL FINISH PLAN & DETAILS

ARCHITECTURAL EQUIPMENT

22	AQ101	A LEVEL - EQUIPMENT PLANS - EXISTING & NEW WORK

ARCHITECTURAL WAY-FINDING

23	AW101	INTERIOR SIGNAGE, ELEVATIONS & DETAILS

FIRE PROTECTION

24	FX101	FIRE PROTECTION DEMOLITION & NEW WORK

PLUMBING

25	P001	PLUMBING ABBREVIATIONS, LEGENDS AND NOTES
26	PD101	PLUMBING PLAN - DEMOLITION
27	PN101	PLUMBING PLAN - NEW WORK
28	P301	PLUMBING SCHEDULES AND DETAILS

MECHANICAL

29	M001	MECHANICAL LEGENDS, ABBREVIATIONS AND NOTES
30	MH101	MECHANICAL DEMOLITION AND NEW WORK HVAC & PIPING PLANS
31	MH201	MECHANICAL DETAILS
32	MH202	MECHANICAL DETAILS
33	MH203	MECHANICAL DETAILS
34	MH301	MECHANICAL SCHEDULES
35	MI401	MECHANICAL CONTROLS

ELECTRICAL

36	E001	ELECTRICAL LEGENDS, ABBREVIATIONS AND NOTES
37	ED101	ELECTRICAL POWER AND LIGHTING DEMOLITION PLANS
38	E101	ELECTRICAL POWER AND LIGHTING NEW WORK PLANS
39	E102	ELECTRICAL EQUIPMENT AND AUXILIARY NEW WORK PLANS
40	E103	ELECTRICAL TELECOM AND FIRE ALARM PLANS
41	E201	ELECTRICAL PANEL SCHEDULES AND SINGLE LINE DIAGRAM
42	E301	ELECTRICAL DETAILS
43	E302	ELECTRICAL DETAILS

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers

acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103

office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · JOSEPH LEONARD HERMAN · 21734 · REGISTERED ARCHITECT · 6/18/2021

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
Approved:	FULLY SPRINKLERED	Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Building Number: 1
		Issue Date: 6/18/2021 · Checked: JLH · Drawn: ACELA	Drawing Number: GI101

6/14/2009 12:39:03 PM

VA FORM 08 - 6231

ARCHITECTURAL SYMBOLS

- CENTER LINE
- SPOT ELEVATION — X'-X"
- BREAK LINE
- DETAIL INDICATOR — 1 / XX-XX
- DETAIL INDICATOR FOR SMALL CONDITIONS — D2 / XX-XX
- DIMENSION LINE — 1"
- EXISTING DOOR OPENING
- NEW DOOR HARDWARE AND OPENING / BORROWED LIGHT IDENTIFIER — HW-XX; 1 1 / X
  - SEE DOOR SCHEDULE, DETAILS, SPECIFICATIONS AND ELEVATIONS SHEET
- X DRAWING TITLE — SCALE: 1 1/2" = 1'-0" — DRAWING BLOCK TITLE, TYPICAL
- ELEVATION INDICATOR, INTERIOR — # / XX-XX
- ELEVATION INDICATOR, EXTERIOR — # / XX-XX / EXTERIOR
- ELEVATION INDICATOR, INTERIOR CORRIDOR — # / XX-XX
- BUILDING SECTION INDICATOR — 1 / XX-XX
- TYPICAL DETAIL INDICATOR — DETAIL NUMBER; 1 / XX-XX; SHEET WHERE DRAWN
- EXISTING ROOM NAME AND NUMBER — CORRIDOR / C2
- NEW ROOM NAME AND NUMBER — CORRIDOR / C2
- COLUMN GRID — 1 / A
- ARCHITECTURAL KEYNOTE TAG — #
- REFLECTED CEILING KEYNOTE TAG — X
- WALL OR PARTITION TYPE — X
- FIRE EXTINGUISHER CABINET — FEC
- CORNER GUARD — CG
- NORTH ARROW — P N / N
- REVISION — 7
- REVISION CLOUD

ARCHITECTURAL ABREVIATIONS

&	AND
@	AT
℄	CENTERLINE
#	NUMBER
AB	ANCHOR BOLT
ABV	ABOVE
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AT	ACOUSTIC TILE
AUTO	AUTOMATIC
AVG	AVERAGE
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BMPR	BUMPER
BOT	BOTTOM
BRG	BEARING
BEL	BELOW
BR	BUMPER RAIL
BRK	BRICK
C	CONCRETE
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CCT	CUBICLE CURTAIN TRACK
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CT	CERAMIC TILE
CLG	CEILING
CL	CLOSET
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CPT	CARPET
CU	CUBIC
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DOOR OPENING
DOZ	DOZEN
DP	DAMPPROOFING
DR	DOOR
DWG	DRAWING
DWGS	DRAWINGS
DWR	DRAWER
E	EAST
EA	EXHAUST AIR, EACH
EL	ELEVATION
ELEV	ELEVATION
ELEC	ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EP	ELECTRICAL PANELBOARD
EPY	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWS	EYE WASH STATION
EXP	EXPANSION
EJ	EXPANSION JOINT
EXIST	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FB	FACE BRICK
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FACE OF
FOC	FACE OF CONCRETE
FOS	FACE OF STUD
FOW	FACE OF WALL
FPRF	FIREPROOF(ING)
FR	FIRE RATING, FRAME
FRMG	FRAMING
FS	FULL SIZE
FT	FOOT OR FEET
FTG	FOOTING
FUR	FURRING
FUT	FUTURE
GC	GENERAL CONTRACTOR
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GALV STL	GALVANIZED STEEL
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GUARD
GL	GLASS
GND	GROUND
GR	GRADE
GWB	GYPSUM WALLBOARD
GYP BD	GYPSUM WALLBOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDPL	HIGH DENSITY PLASTIC LAMINATE
HDWR	HARDWARE
HDWD	HARDWOOD
HT	HEIGHT
HDRL	HANDRAIL
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HR	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ID	IDENTIFICATION, INSIDE DIAMETER / DIMENSION
IN	INCH
INCL	INCLUDE(D)
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JST	JOIST
JT	JOINT
KP	KICK PLATE
KO	KNOCKOUT
L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LBS	POUND
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LH	LEFT HAND
LIN	LINEAR
LIQ	LIQUID
LKR	LOCKER
LG	LONG
LL	LEAD LINED
LLV	LONG LEG VERTICAL
LP	LOW POINT
LRG	LARGE
LT	LIGHT
LT WT	LIGHTWEIGHT
LVR	LOUVER
LVT	LUXORY VINYL TILE
MAT	WALK-OFF CARPET
MATL	MATERIAL
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MP	MOP PLATE
MTD	MOUNTED
N	NORTH
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEG	NEGATIVE
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER / DIMENSION
OFF	OFFICE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OH	OVERHEAD
OZ	OUNCE
P	PAINT
PAV	PAVING
PC	PRECAST CONCRETE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PLBG	PLUMBING
PMF	PREMOLDED FILLER
PR	PAIR
PT	POINT
PT	PORCELAIN TILE
PTN	PARTITION
QT	QUARRY TILE
R	RADIUS, RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE, RUBBER BASE
RD	ROOF DRAIN
RL	ROOF LEADER
REF	REFERENCE
REFR	REFRIGERATOR
REQ'D	REQUIRED
REV	REVISION
RFI	REQUEST FOR INFORMATION
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RT	RUBBER TILE
S	SOUTH
S	SOLID SURFACE
SA	SUPPLY AIR
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
SH	SPRINKLER HEAD
SHT	SHEET
SIM	SIMILAR
SM	SMOKE
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
STA	STATION
STD	STANDARD
STO	STORAGE
STL	STEEL
SS	STAINLESS STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
TEL	TELEPHONE
TEMP	TEMPERED
T&G	TONGUE AND GROOVE
THK	THICK
TOC	TOP OF CONCRETE
TOP	TOP OF PAVEMENT
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRAN	TRANSITION
TV	TELEVISION
TYP	TYPICAL
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
VB	BAPOR BARRIER
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VTR	VET THRU ROOF
W	WEST
W/	WITH
WD	WOOD
W/O	WITHOUT
WP	WATERPROOF
WP	WALL PROTECTION
WRS	WINDOW ROLLER SHADE
WT	WEIGHT
WWF	WELDED WIRE FRAME

NOTE:

ALL ABBREVIATIONS SHOWN MAY NOT BE USED ON THIS PROJECT. CERTAIN COMMON ABBREVIATIONS MAY NOT BE SHOWN.

MATERIAL LEGEND

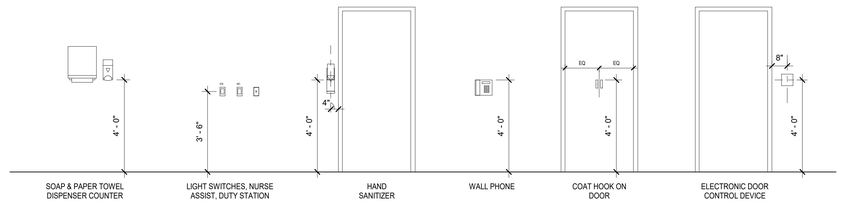
- WOOD
- WOOD FINISH
- ALUMINUM
- STEEL
- EARTH
- CONCRETE
- GYPSUM - PLASTER
- MASONRY - CONCRETE BLOCK
- RIGID INSULATION
- BATT INSULATION
- PLYWOOD
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED

GENERAL NOTES - GENERAL CONDITIONS

1. SPACES AROUND THE PROJECT AREAS WILL BE OCCUPIED DURING PERFORMANCE OF WORK. IMMEDIATE AREAS OF ALTERATIONS WILL BE VACATED. ALL CONTRACTOR WORK WILL BE PERFORMED DURING NORMAL DAYTIME WORKING HOURS UNLESS INDICATED. ALL TEMPORARY SYSTEM SHUTDOWNS WILL OCCUR DURING 2ND SHIFT OR WEEKENDS AND COORDINATED AND APPROVED BY THE PROJECT COR.
2. BEFORE STARTING WORK WITHIN AN OCCUPIED AREA, THE CONTRACTOR WILL BE RESPONSIBLE TO SET-UP TEMPORARY/PERMANENT CONSTRUCTION/ICRA BARRIERS WITH ANTEROOM AND MAINTAIN NEGATIVE AIR PRESSURE. ALL TEMPORARY CONSTRUCTION BARRIERS OUTSIDE THE INDICATED CONSTRUCTION PHASE AREA WILL BE REMOVED AT THE CONCLUSION OF THE WORK SHIFT. THE CONTRACTOR WILL BE RESPONSIBLE TO CLEAN AND PREPARE THE AREA TO BE OCCUPIED BY MEDICAL CENTER STAFF AND PATIENTS.
3. DIMENSIONS SUPERSEDE DRAWINGS. DO NOT SCALE PLANS. DIMENSIONS ARE TO THE FACE OF EXISTING MATERIALS UNLESS OTHERWISE NOTED. DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED AT THE SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND MATERIALS REQUIRED FOR THE CONTRACTED WORK. REPORT ALL DISCREPANCIES TO ARCHITECT PRIOR TO FABRICATIONS AND ERECTION.
4. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING DEMOLITION AND CONSTRUCTION TO SUPPORT LOADS. SUCH MATERIAL SHALL BE REMOVED AT THE COMPLETION OF WORK AND SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
5. DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT WOULD REDUCE THEIR LOAD CARRYING CAPACITY OR LOAD-DEFLECTION RATIO.
6. WHERE EXISTING CONSTRUCTION, EQUIPMENT, ETC. IS REQUIRED TO BE REMOVED, RESTORE EXPOSED FINISHES OF CUT AND PATCHED AREAS AND EXTEND FINISH RESTORATION INTO ADJOINING CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. CUT EXISTING CONSTRUCTION USING METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO BE RETAINED OR ADJOINING CONSTRUCTION. WHERE INDICATED TO REMOVE FINISHES, REMOVE SO TOTALLY, FROM PLANE TO PLANE, TREAT REMAINING SUBSURFACE TO RECEIVE NEW FINISHES DESIGNATED.
7. WHERE EXISTING CONSTRUCTION, EQUIPMENT, ETC. SHOWN TO BE RELOCATED SHALL BE COORDINATED BY THE CONTRACTOR WITH THE VA PRIOR TO START OF WORK IN EACH AREA. THE VA WILL REMOVE ALL ITEMS OF SALVAGEABLE VALUE, INCLUDING BUT NOT LIMITED TO DOORS, HARDWARE, MOVEABLE EQUIPMENT NOT ALREADY DESIGNATED FOR REINSTALLATION/REUSE, PRIOR TO CONTRACTOR COMMENCING WORK.
8. WHERE EXISTING PARTITIONS HAVE BEEN REMOVED OR NEW SERVICES PENETRATE EXISTING SURFACES, THE OPENINGS SHALL BE PATCHED TO MATCH THE EXISTING ADJACENT SURFACES FINISH, TEXTURE AND SHEEN.
9. WHERE EXISTING PARTITIONS HAVE BEEN REMOVED OR NEW SERVICES PENETRATE EXISTING SURFACES, THE OPENING SHALL BE PATCHED TO MATCH THE EXISTING ADJACENT SURFACES FINISH, TEXTURE AND SHEEN.
10. IN GENERAL, WHEREVER SERVICES ARE REMOVED, THE OPENINGS SHALL BE PATCHED TO MATCH THE EXISTING ADJACENT SURFACES FINISH TEXTURE AND SHEEN. WHERE REMOVAL OF EXISTING CONSTRUCTION, PIPING, DUCTWORK AND OTHER ITEMS CREATES OPENINGS IN THE WALLS, FLOORS OR CEILINGS, PATCH OPENINGS IMMEDIATELY WITH THE SAME MATERIALS AS ADJACENT CONSTRUCTION. MAINTAIN THE REQUIRED FIRE RATING. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION. FILL IN ALL EXISTING OPENINGS THAT ARE NOT TO REMAIN, UNLESS OTHERWISE NOTED. FINISH TO MATCH FINISH OF ADJACENT SURFACE.
11. WHERE CODED NOTE DESIGNATIONS ARE SHOWN AS "TYP" OR "TYPICAL" IT IS INTENDED THAT THE NOTE GENERALLY REFERS TO ALL SIMILAR ITEMS OR SURFACES.
12. A HAZARDOUS MATERIALS SURVEY WAS NOT CONDUCTED BY THE ARCHITECT OF RECORD. A HAZARDOUS MATERIALS SURVEY WAS SUPPLIED BY THE VA. THE RESULTS OF THE SAMPLES TAKEN ARE INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE PROTECTIVE MEASURES FOR ITS WORKERS PRIOR TO THE BEGINNING OF ANY RENOVATION OR DEMOLITION WORK.
13. AFTER COMPLETION OF DEMOLITION, SCHEDULE A WALK-THROUGH WITH THE COR AND ARCHITECT FOR REVIEW OF EXISTING CONDITIONS.
14. PATCH AND FIRE STOP EXISTING ABANDONED PENETRATIONS THROUGH THE CONCRETE FLOORS AND WALLS.

GENERAL NOTES - CONSTRUCTION NOTES

1. ALL DIMENSIONS OF NEW PARTITIONS/BARRIERS SHALL BE TAKEN TO FACE OF STUD. DIMENSIONS TO EXISTING WORK SHALL BE TAKEN TO FACE OF FINISH SURFACE.
2. DO NOT SCALE DRAWINGS. DRAWINGS ARE CONCEPTUAL PLANS.
3. THE WORK OF THE CONTRACTOR SHALL INCLUDE ALL LABOR AND MATERIALS FOR ALL TRADES CONCERNED FOR COMPLETING THE PROJECT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL PROCURE, COMPLETE AND APPLY FOR ALL PERMITS AS REQUIRED TO CONSTRUCT THE PROJECT.
5. THE CONTRACTOR SHALL BE FAMILIAR WITH THE CONTRACT DOCUMENTS AND MUST VISIT THE SITE AND BE ACQUAINTED WITH THE CONDITIONS AFFECTING THE WORK.
6. WORKMANSHIP. ALL WORK TO BE FIRST RATE, HIGH QUALITY, AND ACCOMPLISHED IN A WORKMANLIKE MANNER BY SKILLED CRAFTSMEN USING ACCEPTED PRACTICES AND METHODS APPROPRIATE TO THE TRADE INVOLVED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY CLEANING UP OF THE WORK AREA. THE AREA SHALL BE CLEANED EACH DAY AND TRASH SHALL BE DISPOSED OF AT THE END OF EACH DAY. AT THE END OF THE PROJECT, THE CONTRACTOR SHALL CLEAN THE WORK AREA THOROUGHLY.
8. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE TIME OF ACCEPTANCE BY THE OWNER UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.
9. ALL PLUMBING WORK SHALL CONFORM TO THE ADOPTED EDITION OF THE INTERNATIONAL PLUMBING CODE. INSTALL ALL WATER, WASTE AND VENT PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES. REVIEW DRAWINGS AND PROVIDE ALL WORK FOR A COMPLETE AND OPERABLE SYSTEM, INCLUDING ALL INCIDENTALS, REQUIRED BY CODE AGENCIES AND LOCAL GOVERNING BODIES.
10. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL BUILDING CONDITIONS, COORDINATE ALL DIMENSIONS IN FIELD AND VERIFY ALL LOCATIONS OF UTILITIES IN THE FIELD.
11. ALL HEATING, VENTILATING AND AIR CONDITIONING WORK SHALL CONFORM TO THE ADOPTED EDITION OF THE INTERNATIONAL MECHANICAL CODE.
12. THE COMPLETE MECHANICAL AND HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) SYSTEM AND INSTALLATION SHALL COMPLY AND CONFORM TO ALL 2018 INTERNATIONAL MECHANICAL AND ENERGY CONSERVATION CODES, AND 2018 FACILITIES GUIDELINE INSTITUTE (AS APPLICABLE), STATE CODES, AND ANY REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
13. THE COMPLETE ELECTRICAL SYSTEM AND INSTALLATION SHALL COMPLY AND CONFORM TO ALL ADOPTED CODES, REGULATIONS OF THE NATIONAL ELECTRICAL CODE AS WELL AS TO ALL STATE AND LOCAL LAWS, ORDINANCES AND CODES.



NOTES:
THE DIMENSIONS SHOWN ARE FOR TYPICAL MOUNTING HEIGHTS.
SEE ELEVATIONS FOR MOUNTING HEIGHT FOR INFREQUENTLY USED ITEMS.
SEE ELEVATIONS FOR ATYPICAL MOUNTING HEIGHTS.

STANDARD MOUNTING HEIGHTS

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — JOSEPH LEONARD MANN — 21734 — REGISTERED ARCHITECT — 6/18/2021

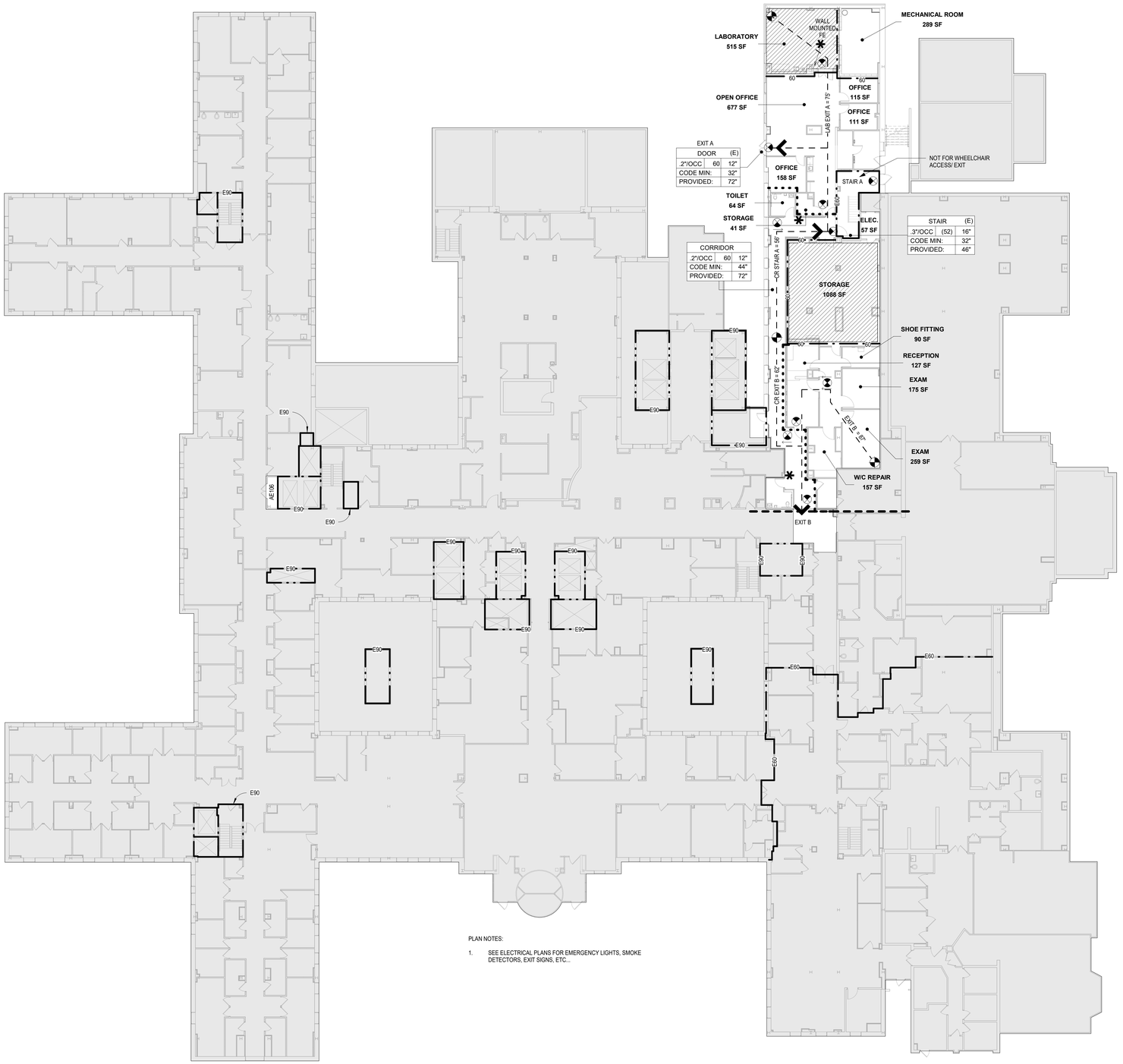
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	GENERAL INFORMATION, SYMBOLS & GENERAL NOTES
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	UPGRADE PROSTHETICS LAB
Location	VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS
Issue Date	6/18/2021
Checked	JLH
Drawn	ACELA
Project Number	561-19-160
Building Number	1
Drawing Number	GI102

C:\Users\akanuka\Documents\561-19-160_ProstheticsLab VA R2019 Cntl 11-05-20_akanuka.rvt
7/7/2021 3:33:21 PM

VA FORM 08 - 6231



1 LEVEL A - LIFE SAFETY PLAN
1/16" = 1'-0"

LIFE SAFETY ANALYSIS

PROJECT OVERVIEW:
RENOVATE
APPLICABLE CODES:
- NFPA 13-2019 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- NFPA 14-2019 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOUSE SYSTEMS
- NFPA 24-2019 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
- NFPA 72-2019 NATIONAL FIRE ALARM CODE
- NFPA 90A-2018 STANDARD FOR HEALTH CARE FACILITIES
- NFPA 99-2018 STANDARD FOR HEALTH CARE FACILITIES
- NFPA 101-2021 LIFE SAFETY CODE
- NFPA 220-2018 STANDARD ON TYPES OF BUILDING CONSTRUCTION
- NFPA 291-2019 RECOMMENDED PRACTICE FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS
- NFPA 1963-2009 STANDARD FOR FIRE HOSE CONNECTIONS
- VA DESIGN GUIDE AND TECHNICAL GUIDE
- VA FIRE PROTECTION DESIGN MANUAL - DECEMBER 2015
- UNIFORM FEDERAL ACCESSIBILITY STANDARDS WITH VA BARRIER FREE DESIGN GUIDE (PG 18-13)

BUILDING USE CLASSIFICATION:
HEALTH CARE
EXISTING HEALTH CARE OCCUPANCY (NFPA 101 - CHAPTER 18)

BUILDING CONSTRUCTION:
BUILDING STRUCTURE: STEEL COLUMNS/BEAMS, ENCASED IN CONCRETE, CONCRETE SLABS

NUMBER OF STORIES ____
CONSTRUCTION TYPE: TYPE II (222) NFPA-101

SPRINKLER: FULLY SPRINKLERED IN ACCORDANCE WITH NFPA13- INSTALLATION OF SPRINKLER SYSTEMS

FIRE EXTINGUISHERS: PROVIDE IN ACCORDANCE WITH NFPA-10-PORTABLE FIRE EXTINGUISHERS WITH TRAVEL DISTANCE OF 75 FT.

MAX. ALLOWABLE NUMBER OF STORIES (ABOVE GRADE):
EXISTING

MAX. ALLOWABLE AREAS:
LIFE SAFETY CODE: UNLIMITED

BUILDING COMPONENTS	**NFPA 220 2012 NFPA 101 2018**
PROJECT SQUARE FOOTAGE	
AREA A (PATIENT AREA)	**2,422 SF**
AREA B (ADMINISTRATION AREA)	**2,273 SF**
RATED CONSTRUCTION	**FIRE RATING (IN HOURS)**
EXTERIOR WALLS	-
LOAD BEARING	2
NON-LOAD BEARING	0
INTERIOR BEARING WALLS	2
RATED CONSTRUCTION	**FIRE RATING (IN HOURS)**
EXIT, EXIT HALLWAY STAIRWAY ENCLOSURE	2 (4 OR MORE STORIES)
MECHANICAL SHAFTS, ELEVATOR HOIST WAYS	2 (4 OR MORE)
EXIT ACCESS CORRIDORS	0 (SMOKE TIGHT)
HORIZONTAL EXITS	NA
MIN. # OF EXITS/FLOOR (<500 OCC. LOAD)	2
(> 500-1000)	3
SMOKE BARRIERS	1
COLUMNS	2
COLUMNS (ROOF ONLY)	1
BEAMS	1
BEAMS (ROOF ONLY)	1
FLOOR CONSTRUCTION (INCLUDING BEAMS)	2
ROOF CONSTRUCTION	-
SOILED LINEN ROOMS	1 HR
STORAGE ROOMS MORE THAN 100 SF	1 HR

TRAVEL DISTANCE (FT)

• FROM ANY POINT TO EXIT (WITH AUTO FIRE SUPP. SYS.)	200 FEET
• MAX. DEAD END LENGTH REQUIRED (SPRINKLERED BLDG)	30 FEET (18.2.5.2)
• COMMON PATH OF TRAVEL	100 FEET (18.2.5.3)

REQUIRED EGRESS WIDTH:

DOORWAYS	34" MIN.
STAIR DOORS	36" WIDE
STAIRS	44"
CORRIDOR WIDTH	44"

OPENING PROTECTIVES IN RATED CONSTRUCTION	
DOORS IN OTHER 1 HR RATED CONSTRUCTION	3/4 HR. "C" LABEL
DOORS IN 2 HR RATED CONST. (SELF CLOSING)	1 1/2 HR. "B" LABEL
DOORS IN SMOKE BARRIER PARTITIONS (SELF CLOSING)	3/4 HR

SMOKE COMPARTMENT

• MINIMUM OF TWO PER FLOOR	18.3.7.1 (2)
• MAXIMUM OF 40,000 SF PER SMOKE COMPARTMENT	18.3.7.1 (4)
• TRAVEL DISTANCE FROM ANY POINT TO REACH A DOOR: 200 FEET	18.3.7.1 (5)

GENERAL NOTES

A. PARTITIONS SHALL BE TYPE A1 UNLESS NOTED OTHERWISE.

B. REFER TO SPECIFICATIONS AND PARTITION TYPE SCHEDULE FOR ADDITIONAL NOTES.

C. NEW PARTITIONS ARE DIMENSIONED TO FACE OF METAL STUD OR MASONRY UNLESS NOTED OTHERWISE.

D. EXISTING PARTITIONS ARE DIMENSIONED TO FINISH FACE UNLESS NOTED OTHERWISE.

E. REFER TO ELECTRICAL DRAWINGS FOR EXIT LIGHT LOCATIONS.

FIRE RATING LEGEND

SYMBOL (NUMBER SHOWS OPENING RATING)	BARRIER	OPENING RATING
90 — 60 — 60	ONE HOUR	60 MIN.
E60 — E60 — E60 / E90 — E90 — E90	EXISTING	EXISTING
	SMOKE BARRIER	
*	FIRE EXTINGUISHER IN RECESSED CABINET UNLESS OTHERWISE NOTED	
	EXIT SIGNAGE W/ DIRECTIONAL ARROWS- REFER TO ELECTRICAL PLANS FOR MORE INFORMATION	
	HAZARDOUS AREA	

NOTE: FOR SCHEDULED OPENINGS WHERE SMOKE AND FIRE SEPARATIONS COINCIDE,THE MORE STRINGENT FIRE RATING SHALL APPLY. REFER TO THE PARTITION SCHEDULE FOR FIRE RESISTIVE REFERENCES.

EXIT CAPACITIES LEGEND

DOORS

DOOR		
.2"/OCC		WIDTH PER OCCUPANT (NFPA T 7.3.3.1) / OCCUPANTS (AREA/OCC. LOAD FACTOR)
CODE MIN:	32"	CODE MIN (18 IBC 1010.1.1)
PROVIDED:		CLEARANCE PROVIDED

MIN WIDTH (0.2" X OCC.)

CLEARANCE SHOWN W/ DOOR OPEN 90° BETWEEN STOP & OPEN DOOR FACE

CORRIDORS

CORRIDOR		
.2"/OCC		WIDTH PER OCCUPANT (NFPA T 7.3.3.1) / OCCUPANTS (AREA/OCC. LOAD FACTOR)
CODE MIN:	44"	CODE MIN (2018 NFPA 39.2.3.2)
PROVIDED:		CLEARANCE PROVIDED

MIN WIDTH (0.2" X OCC.)

CLEARANCE SHOWN BETWEEN FACE OF WALLS

STAIRS

STAIR		
.3"/OCC		WIDTH PER OCCUPANT (NFPA T 7.3.3.1) / OCCUPANTS (AREA/OCC. LOAD FACTOR)
CODE MIN:	36" *	CODE MIN (18 IBC 1010.1.1)
PROVIDED:		CLEARANCE PROVIDED

MIN WIDTH (0.3" X OCC.)

* 2018 NFPA TABLE **7.2.2.2.1.1(b) EXISTING STAIRS**

TRAVEL DISTANCE LIMITS

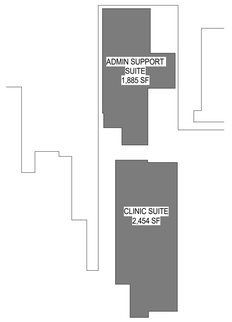
	OCCUPANCY	DISTANCE
COMMON PATH OF TRAVEL (2018 NFPA 39.2.5.3)	B	100'
DEAD END (2018 NFPA 39.2.5.2)	B	20'
TRAVEL DISTANCE LIMIT (2018 NFPA 39.2.6.3)	B	300'

* TRAVEL DISTANCES ARE FOR SPRINKLERED BUILDINGS

OCCUPANT LOAD FACTORS

(2018 NFPA 101, TABLE 7.3.1.2 OCCUPANT LOAD FACTOR)

SPACE FUNCTION	SF/OCC
ASSEMBLY	15 NET
BUSINESS	150 GROSS
EXERCISE	50 GROSS
STORAGE	500 GROSS



SQUARE FOOTAGE PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · JOHN LEONARD HEWITT · 21734 · REGISTERED ARCHITECT
6/18/2021

Office of Construction and Facilities Management

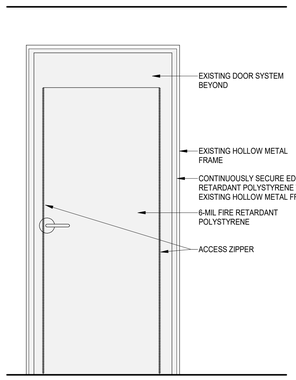
VA U.S. Department of Veterans Affairs

Drawing Title LIFE SAFETY PLAN	**Phase** FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

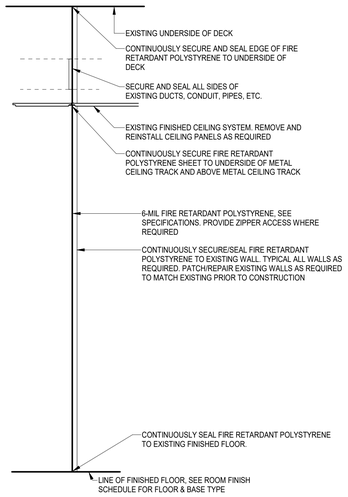
Project Title UPGRADE PROSTHETICS LAB	**Project Number** 561-19-160
	Building Number 1
Location VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	**Drawing Number** GI201
Issue Date 6/18/2021 / **Checked** JLH / **Drawn** ACELA	Page 3 of 43

C:\Users\alexsuarez\Documents\561-19-160_Prosthetics Lab VA R2019 CM 11-06-20_alexsuarez.rvt
7/12/2021 3:33:29 PM

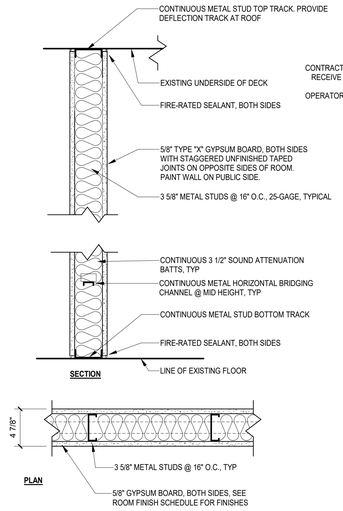
VA FORM 08 - 6231



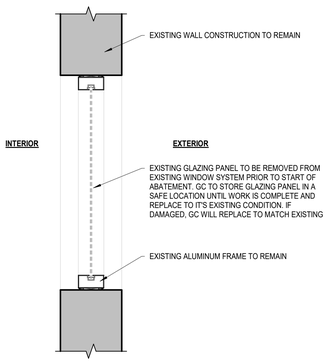
T3 FIRE RETARDANT DUST CONTROL DETAIL AT DOOR



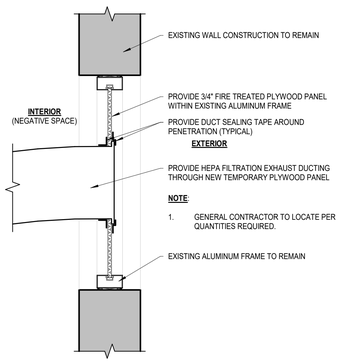
T2 FIRE RETARDANT DUST CONTROL BARRIER



T1 1 HOUR RATED TEMPORARY CONSTRUCTION FIRE BARRIER

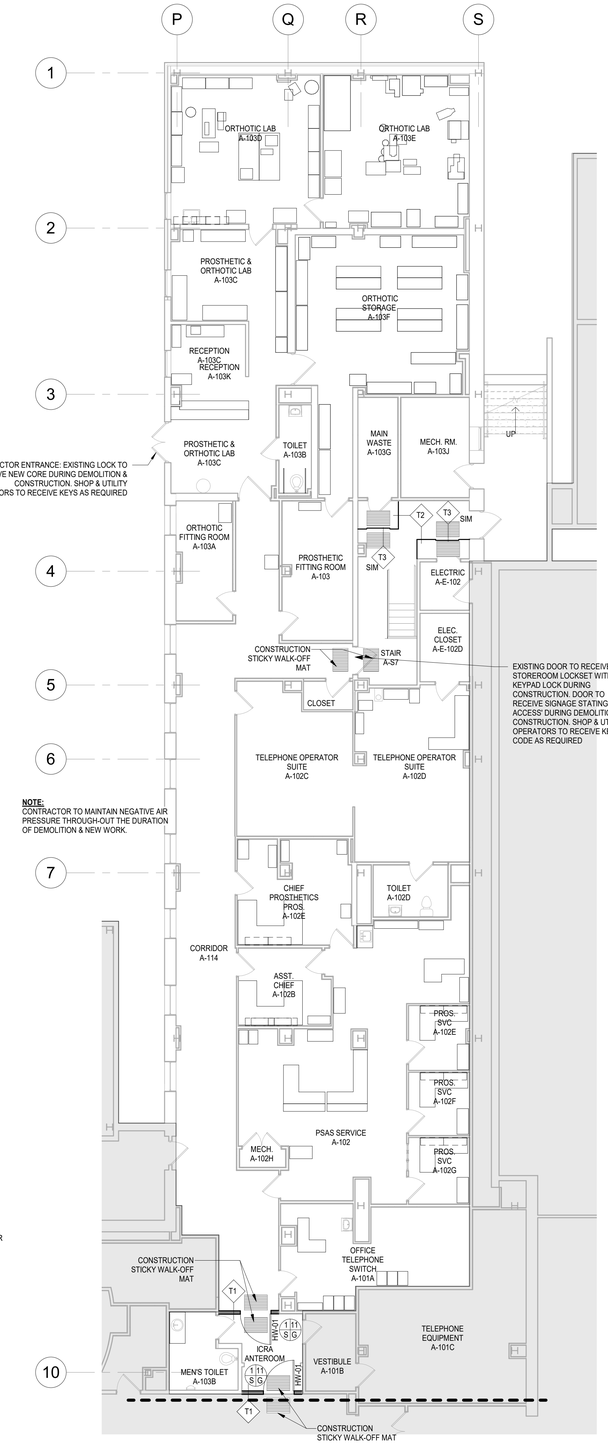


GLAZING PANEL REMOVAL



HEPA EXHAUST

A TYPICAL HEPA FILTRATION THROUGH WINDOW DETAIL
1" = 1'-0"

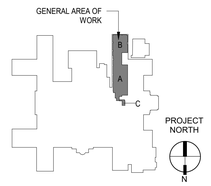


1 ICRA PLAN
1/8" = 1'-0"

ICRA CONTROL POLICY

ICRA CLASS II PROJECT
PRECAUTIONS DURING CONSTRUCTION

1. EXECUTE WORK BY METHODS TO MINIMIZE RAISING DUST FROM CONSTRUCTION OPERATIONS
2. IMMEDIATELY REPLACE A CEILING TILE DISPLACED FOR VISUAL INSPECTION
3. PROVIDE ACTIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPERSING INTO ATMOSPHERE
4. WATER MIST WORK SURFACES TO CONTROL DUST WHILE CUTTING DRY WALL FOR BARRIERS
5. SEAL UNUSED DOORS WITH DUCT TAPE IN THE CONSTRUCTION AREA
6. BLOCK OFF AND SEAL AIR VENTS IN THE CONSTRUCTION AREA
7. PLACE DUST MAT AT ENTRANCE AND EXIT OF WORK AREA
8. REMOVE OR ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM
9. REMOVE CONSTRUCTION WASTE DAILY
10. PROVIDE TEMPORARY 1 HR. FIRE BARRIER PARTITIONS AS INDICATED AND SEAL UNUSED DOORS AT PERIMETER OF THE WORK AREA WITH PAINTER'S TAPE TO SEAL AREA FROM NON-WORK AREA BEFORE CONSTRUCTION BEGINS
11. MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK SITE UTILIZING HEPA FILTER EQUIPPED AIR FILTRATION UNITS. COORDINATE LOCATION OF WINDOW AND ABOVE FLOOR PENETRATIONS WITH COR. SPACE SHALL BE CONTINUOUSLY MONITORED. BALL IN THE WALL IS NOT ACCEPTABLE. PATCH FLOOR PENETRATION AND REPLACE WINDOW GLAZING AFTER CONSTRUCTION AS REQUIRED TO MATCH EXISTING.
12. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS OR BY COVERING IN PLASTIC AND SEALING WITH DUCT TAPE. REMOVE WASTE DAILY EITHER AFTER 5 PM AND BEFORE 7 AM
13. USE ROUTE AGREED UPON BY THE ICRA TEAM AND COR FOR TRANSPORT OF CONTAINERS THROUGH THE FACILITY
14. SEAL HOLES, PIPES, CONDUITS, AND PUNCTURES AIRTIGHT AND/OR FIRE SEAL AS REQUIRED
15. CONSTRUCT AN AIRTIGHT ONE-HOUR RATED ANTEROOM AND REQUIRE ALL PERSONNEL TO PASS THROUGH THIS ROOM SO THEY CAN BE VACUUMED USING HEPA VACUUM CLEANER BEFORE LEAVING WORK SITE; OR WEAR PAPER COVERALLS THAT ARE REMOVED EACH TIME THEY LEAVE THE WORK SITE
16. ALL PERSONNEL ENTERING WORK SITE ARE REQUIRED TO WEAR SHOE COVERS. SHOE COVERS MUST BE CHANGED EACH TIME THE WORKER EXITS THE WORK AREA THROUGH THE ANTEROOM
17. WORK OUTSIDE THE PRIMARY WORK AREA (AREA OF CONTAINMENT) WILL BE PERFORMED WITHIN A FIRE-RATED PLASTIC ENCLOSURE WITH NEGATIVE AIR HEPA FILTER SYSTEM TO CONTROL DUST. ENCLOSURE TO BE CONSTRUCTED AND REMOVED DAILY AS REQUIRED BY THE COR. CONTRACTOR TO SANITIZE WORK AREA PRIOR TO REMOVING PLASTIC CONTAINMENT AREA



A LEVEL KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ICRA PLAN, DETAILS & NOTES	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
Approved:	FULLY SPRINKLERED	Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Building Number: 1
		Issue Date: 6/18/2021 / Checked: JLH / Drawn: ACELA	Drawing Number: GI301

Page 4 of 43

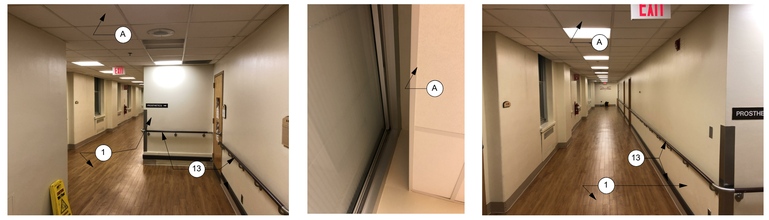
VA FORM 08 - 6231

C:\Users\dakowsky\Documents\561-19-160_Prosthetics Lab VA NJ\21d GM 11-06-20_dakowsky.RVB057.rvt
7/12/2021 3:38:55 PM

GENERAL NOTE:

REFER TO 'AD' SERIES DRAWINGS FOR DEMOLITION PLANS, SCHEDULES, AND NOTES

15 PHOTOS - MAIN CORRIDOR
1/8" = 1'-0"

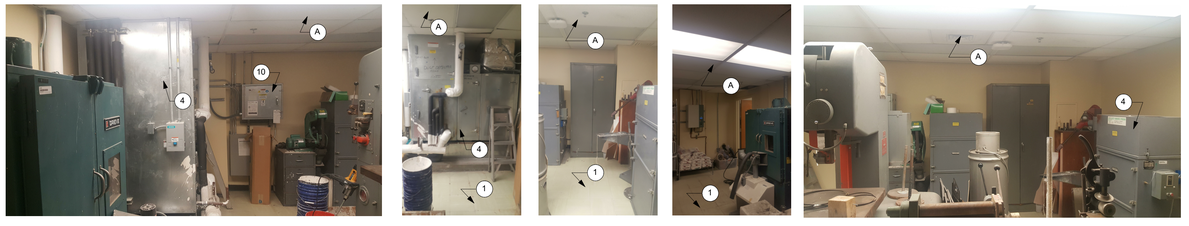


14 PHOTOS - COMMON CORRIDOR
1/8" = 1'-0"

13 PHOTOS - A-102H
1/8" = 1'-0"

12 PHOTOS - AE-102D ELEC CLOSET
1/8" = 1'-0"

11 PHOTOS - A-103J NATURAL GAS METER
1/8" = 1'-0"

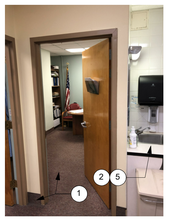


10 PHOTOS - A-103E LAB
1/8" = 1'-0"

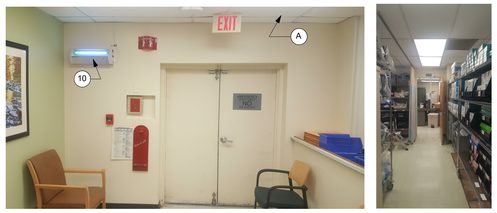
9 PHOTOS - A-103D LAB
1/8" = 1'-0"

8 PHOTOS - A-103A ORTHOTIC FITTING ROOM
1/8" = 1'-0"

7 PHOTOS - A-103B TOILET
1/8" = 1'-0"



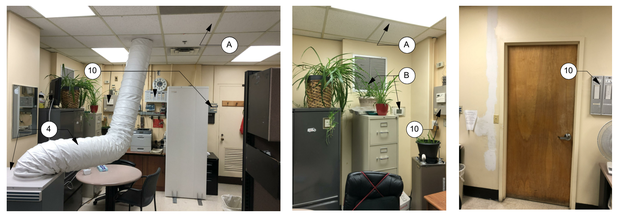
6 PHOTOS - A-102E CHIEF PROSTHETICS PROS
1/8" = 1'-0"



5 PHOTOS - A-103C RECEPTION & A-103C PROSTHETIC & ORTHOTIC LAB
1/8" = 1'-0"

4 PHOTOS - A-103 PROSTHETICS FITTING ROOM
3/16" = 1'-0"

3 PHOTOS - A-102 PROSTHETICS SERVICE (INCLUDES A102 E/F/G)
1/8" = 1'-0"



2 PHOTOS - A-102C & A-102D TELEPHONE OPERATOR SUTIE
1/8" = 1'-0"

1 PHOTOS - A-101A OFFICE TELEPHONE SWITCH & A-101C TELE. EQUIP. ROOM
1/8" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · LEONARD J. ACELA · REGISTERED ARCHITECT · 21734 · 6/18/2021

Office of Construction and Facilities Management

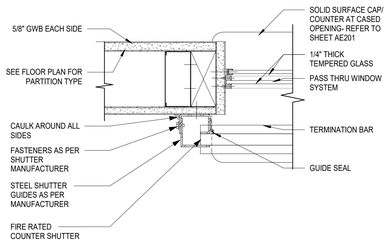
VA U.S. Department of Veterans Affairs

Drawing Title: EXISTING CONDITION PHOTOS	Phase: FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

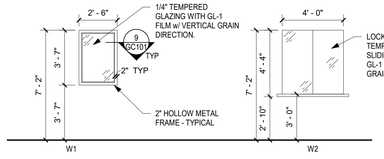
Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
	Building Number: 1
Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Drawing Number: GI401
Issue Date: 6/18/2021	Checked: JLH
	Drawn: ACELA

VA FORM 08 - 6231

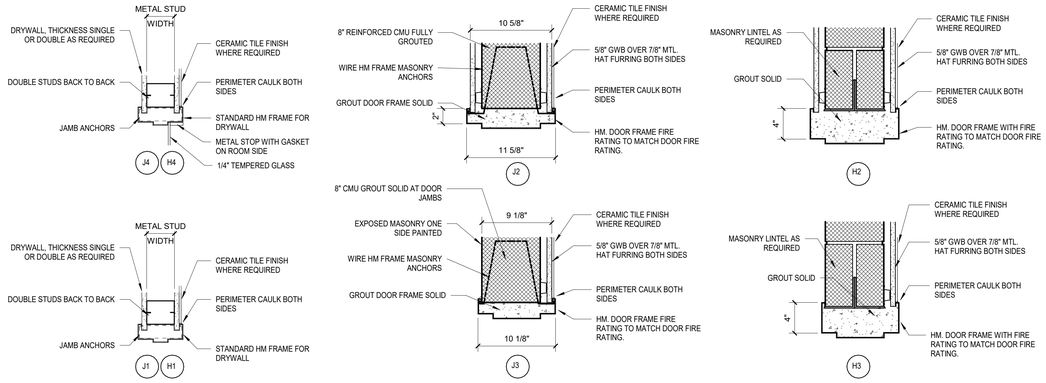
C:\Users\alanowsky\Documents\561-19-160_Prosthetic Lab VA #2019 CM 11-06-20_alanowsky2BWD7.rvt
7/12/2021 3:33:49 PM



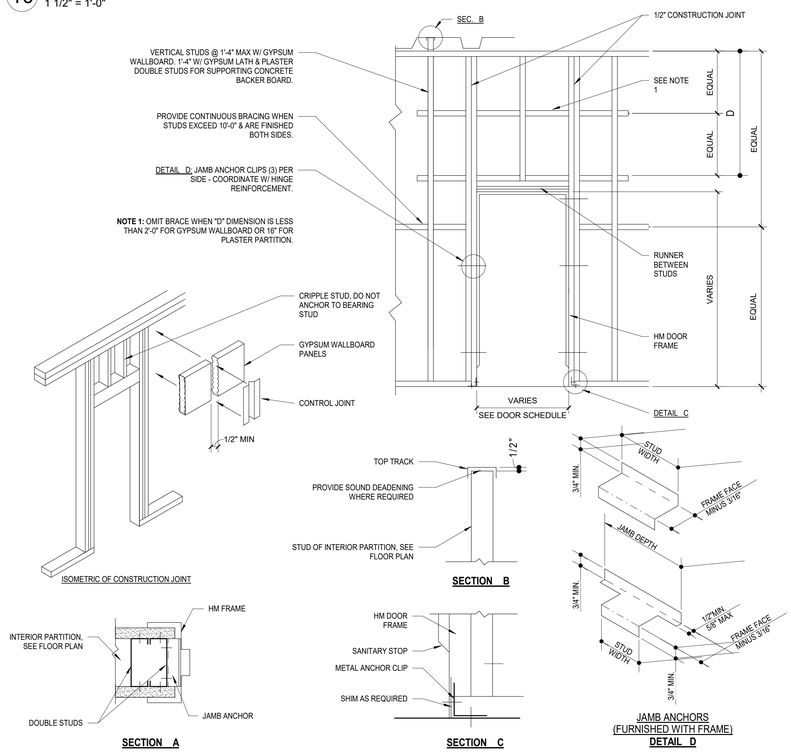
12 SECTION - FIRE SHUTTER JAMB DETAIL
3" = 1'-0"



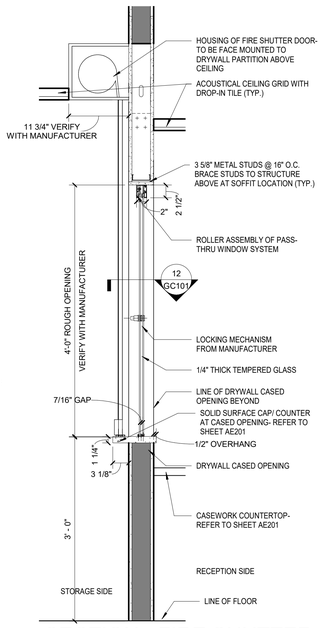
11 WINDOW SCHEDULE
1/4" = 1'-0"



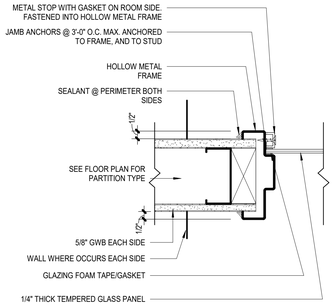
10 DETAILS - INTERIOR DOOR JAMBS
1 1/2" = 1'-0"



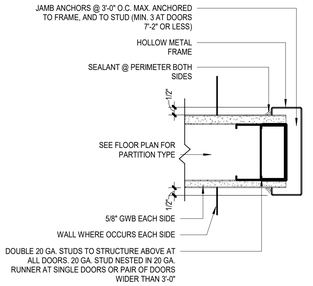
5 DETAILS - DOOR OPENING FRAMING
1/2" = 1'-0"



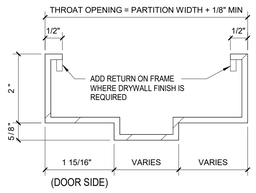
8 SECTION - FIRE SHUTTER AT PASS-THRU WINDOW
1" = 1'-0"



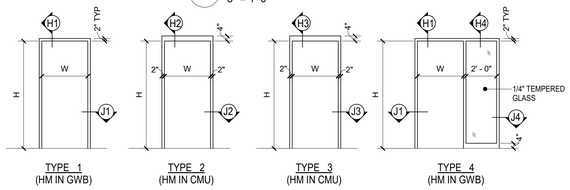
9 SECTION - HOLLOW METAL VISION PANEL
3" = 1'-0"



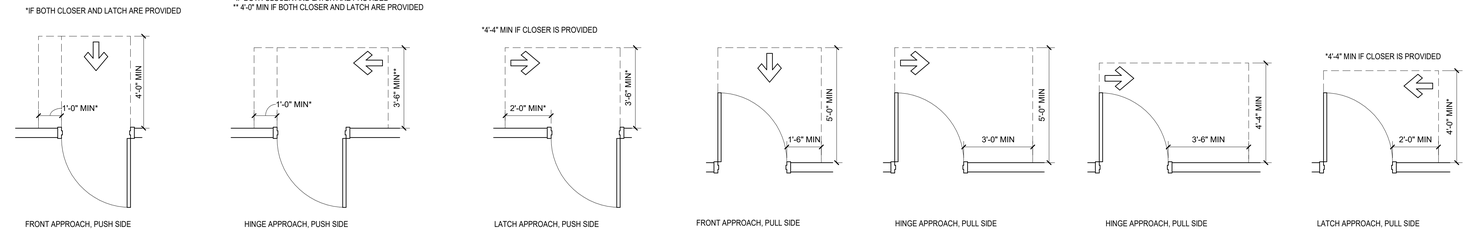
7 TYP. JAM DETAIL, HD SIM CASED OPENING
3" = 1'-0"



4 DETAIL - TYPICAL DOOR FRAME
6" = 1'-0"



3 INTERIOR DOOR FRAMES
1/4" = 1'-0"

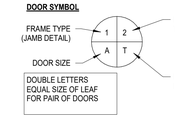


1 TYPICAL DOOR APPROACH CLEARANCES
3/8" = 1'-0"

DOOR SIZES

MK	WIDTH IN	WIDTH mm	HEIGHT IN	HEIGHT mm	MK	WIDTH IN	WIDTH mm	HEIGHT IN	HEIGHT mm
A	1'-6"	(457)	6'-8"	(2032)	N	2'-0"	(610)	7'-0"	(2134)
B	2'-0"	(610)	6'-8"	(2032)	O	2'-2"	(660)	7'-0"	(2134)
C	2'-2"	(660)	6'-8"	(2032)	P	2'-4"	(711)	7'-0"	(2134)
D	2'-4"	(711)	6'-8"	(2032)	Q	2'-6"	(762)	7'-0"	(2134)
E	2'-6"	(762)	6'-8"	(2032)	R	2'-8"	(813)	7'-0"	(2134)
F	2'-8"	(813)	6'-8"	(2032)	S	3'-0"	(914)	7'-0"	(2134)
G	2'-10"	(864)	6'-8"	(2032)	T	3'-4"	(1016)	7'-0"	(2134)
H	3'-0"	(914)	6'-8"	(2032)	U	3'-6"	(1067)	7'-0"	(2134)
I	3'-2"	(965)	6'-8"	(2032)	V	3'-8"	(1118)	7'-0"	(2134)
J	3'-4"	(1016)	6'-8"	(2032)	W	3'-10"	(11168)	7'-0"	(2134)
K	3'-8"	(1118)	6'-8"	(2032)	X	4'-0"	(1219)	7'-0"	(2134)
L	3'-10"	(1168)	6'-8"	(2032)	Y				
M	1'-6"	(457)	7'-8"	(2337)	Z	3'-6"	(1087)	8'-6"	

DOOR SYMBOL



LEGEND (SEE ELEVATIONS)

GLASS OR LOUVER REQUIRED BY MODIFICATION

GLASS OR LOUVER REQUIRED BY ELEVATION TYPE

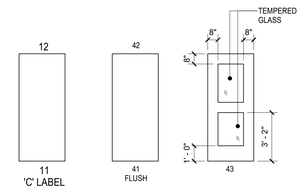
DOOR MODIFICATIONS

A	LAMINATED GLASS
D	DOUBLE GLAZED TEMPERED GLASS
H	ELECTRIC HOLD OPEN
L	LOUVER
LP	LIGHT PROOF LOUVER
M	MECHANICAL SEAL FOR LIGHT PROOF & SOUND RETARDING DOOR
T	TEMPERED GLASS
U	UNDERCUT 1" (25mm)
V	LEAD GLASS
F	FIRE RATED GLAZING
F/F	FIRE RATED GLAZING W/ FILM
W/F	WIRED FLAT GLASS
G	DOOR GASKETS AND DOOR SWEEP

NOTES:

1. ALL DOORS SHALL BE FLUSH - 1 3/4" (44mm) THICK UNLESS NOTED OTHERWISE.
2. TOP & SIDE RAILS SHALL BE 9" (229mm) MIN. BOTTOM RAILS SHALL BE 12" (305mm) MIN.
3. DOOR TYPES 7, 8, & 9 SHALL NOT BE USED FOR OPPOSING DOORS.
4. FOR SCHEDULING DOOR TYPES, SEE PG-18-14.
5. EVEN NUMBERS ARE METAL; ODD NUMBERS ARE WOOD.

6 DOOR NOTES AND SIZES
1/8" = 1'-0"



GENERAL NOTE:
1. ALL 'B' LABELED DOORS WILL HAVE A 90 MINUTE RATING.
2. ALL 'C' LABELED DOORS WILL HAVE A 45 MINUTE RATING.
3. EVEN NUMBERS ARE METAL; ODD NUMBERS ARE WOOD.

2 DOOR TYPES
1/4" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

Office of Construction and Facilities Management

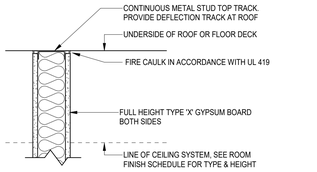
VA U.S. Department of Veterans Affairs

Drawing Title: DOOR & WINDOW SCHEDULE & DETAILS	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
Approved:	FULLY SPRINKLERED	Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Building Number: 1
		Issue Date: 6/18/2021 / Checked: JLH / Drawn: ACELA	Drawing Number: GC101

Page 6 of 43

C:\Users\akenady\Documents\561-19-160_Prosthetics Lab VA R21V3 CM 11-06-20_akenady.rvt 7/12/2021 3:33:13 PM

VA FORM 08 - 6231

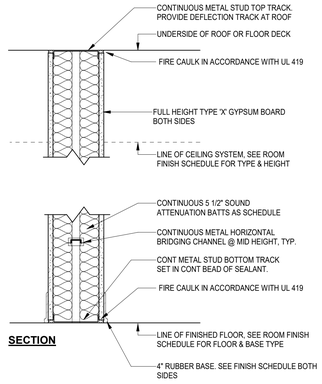


ASSEMBLY: UL-U419

STC: 48

NOTE: ANY PENETRATIONS THROUGH PARTITION ARE TO BE FIRE CAULKED

R1 1-HR RATED METAL STUD PARTITION

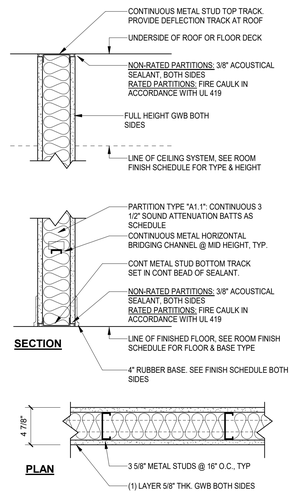


ASSEMBLY: UL-U493

STC: 58

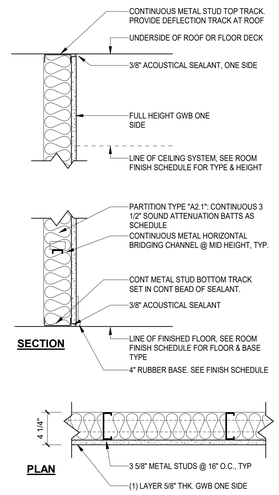
NOTE: ANY PENETRATIONS THROUGH PARTITION ARE TO BE FIRE CAULKED

R2 1-HR RATED METAL STUD PARTITION

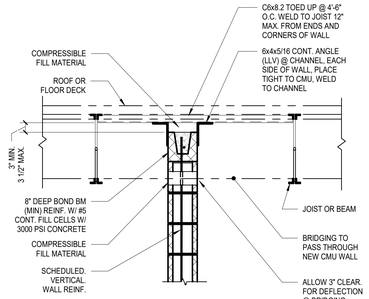


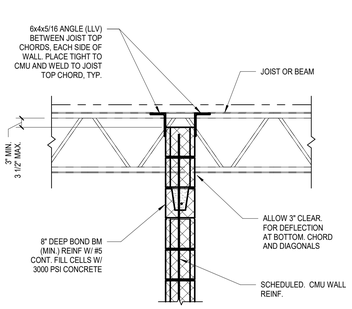
A1 METAL STUD PARTITION

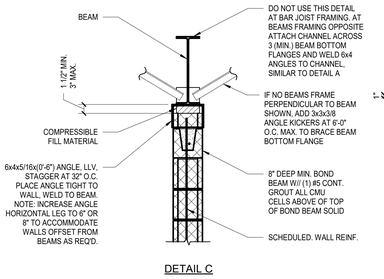
1 HOUR FIRE RATED PARTITION

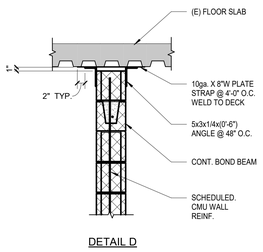


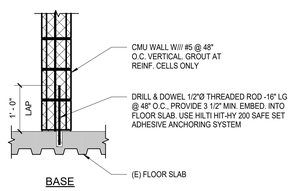
A2 METAL STUD PARTITION



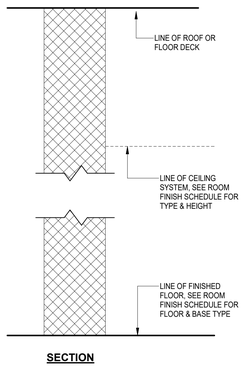






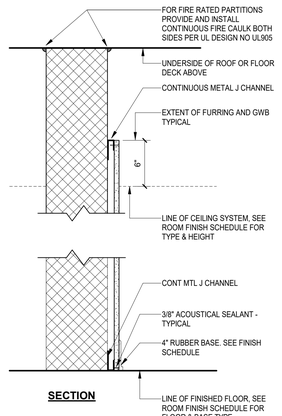


TYPICAL INTERIOR MASONRY WALL DETAILS



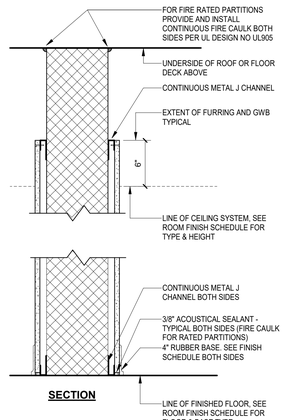
C1 CMU PARTITION

1 HOUR FIRE RATED PARTITION



C2 CMU PARTITION

1 HOUR FIRE RATED PARTITION



C3 CMU PARTITION

1 HOUR FIRE RATED PARTITION

GENERAL NOTES - PARTITIONS

1. DO NOT SCALE DRAWINGS. CONTRACTOR(S) ARE TO VERIFY SITE DIMENSIONS AND CONDITIONS PRIOR TO WORK.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE CODES INCLUDING ACCESSIBILITY STANDARDS AND THE REQUIREMENTS OF "AMERICANS WITH DISABILITIES ACT."
3. CONTRACTOR(S) SHALL VISIT THE SITE AND CORRELATE THE REQUIREMENTS OF THE DOCUMENTS WITH THE EXISTING CONDITIONS.
4. DRAWINGS ARE DIAGRAMMATIC AND SINCE EXISTING CONDITIONS, INCLUDING AREAS ABOVE ACCESSIBLE CEILINGS MAY AFFECT NEW WORK, THE CONTRACTOR SHALL COORDINATE AND ALTER NEW WORK TO PROPERLY FIT THE EXISTING CONDITIONS. THE WORK SHALL BE PERFORMED AT NO EXTRA COST. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO THE START OF CONSTRUCTION. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK.
5. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHEN SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT VA COR BEFORE PROCEEDING WITH THE WORK.
6. SOME MASONRY AND LUMBER DIMENSIONS SHOWN ON THE DRAWINGS ARE NOMINAL DIMENSIONS. CONTRACTOR(S) SHALL COORDINATE ACTUAL DIMENSIONS WITH THE JOB CONDITIONS. REPORT ALL DISCREPANCIES TO THE VA COR.
7. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE NOT GUARANTEED TO BE COMPLETE. THE CONTRACTOR(S) SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND MATERIALS REQUIRED FOR THE CONTRACTED WORK. REPORT ALL DISCREPANCIES TO THE VA COR PRIOR TO FABRICATION AND ERECTION.
8. THE TERM 'PATCH TO MATCH' OR 'CUTTING AND PATCHING' DENOTES THAT REPAIR WORK IS NECESSARY TO CONSTRUCT A FLOOR, BASE, WAINSCOT, WALL OR CEILING TO MATCH ITS ADJACENT SURFACE, TEXTURE, MATERIAL, FINISH AND COLOR OF ADJACENT EXISTING SURFACES.
9. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE VA COR AND OWNER.
10. WHERE EXISTING PARTITIONS OR SERVICES HAVE BEEN REMOVED, OR NEW SERVICES PENETRATE EXISTING SURFACES, THE OPENINGS SHALL BE PATCHED TO MATCH THE EXISTING SURFACE FINISH,
11. TEXTURE, AND SHEEN.
12. WHERE NEW OPENINGS OCCUR IN STRUCTURAL BEARING WALL, CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SUPPORTS AND/OR SHORING AS REQUIRED FOR INSTALLATION OF LINTELS.
13. WHERE EXISTING DOORWAYS ARE TO BE FILLED IN, CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING WALL WIDTHS.
14. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL ACCESS DOORS, ACCESS PANELS AND FRAMES, INCLUDING, BUT NOT LIMITED TO THOSE SPECIFIC IN THE CONSTRUCTION DOCUMENTS AND FURNISHED BY OTHER CONTRACTORS. ALL ACCESS DOORS AND PANEL LOCATIONS TO BE COORDINATED AND APPROVED BY VA COR PRIOR TO INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR PAINTING ALL ACCESS PANELS AND ACCESS DOORS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PAINT COLORS WITH THE ARCHITECT PRIOR TO COMMENCING WITH THE WORK.
15. INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF STUD. THE CONTRACTOR SHALL COORDINATE FINISH DIMENSIONS WITH FINISH SCHEDULE WHEN CRITICAL TO THE INSTALLATION OF MILLWORK OR EQUIPMENT.

GENERAL NOTES - PARTITION SCHEDULE

1. ALL PARTITIONS ARE TYPE A1 UNLESS NOTED OTHERWISE.
2. REFER TO THE LIFE SAFETY PLANS FOR FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS.
3. FIRE RESISTANCE RATING INDICATED ON THE LIFE SAFETY PLANS SHALL MEAN THE ENTIRE LENGTH AND HEIGHT OF THE PARTITION INDICATED TO BE FIRE RATED. ALL PIPING, DUCTS, CABINETS, ETC. THAT PENETRATE PARTITIONS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE FIRE RESISTANT RATING OF THE PARTITION.
4. ALL DIMENSIONS OF NEW PARTITIONS/BARRIERS SHALL BE TAKEN TO FACE OF STUD. DIMENSIONS TO EXISTING WORK SHALL BE TAKEN TO FACE OF FINISH SURFACE.
5. PROVIDE BLOCKING IN PARTITIONS FOR WALL MOUNTED ACCESSORIES.
6. PROVIDE WATER RESISTANT GYPSUM BOARD AT PLUMBING LOCATIONS UNLESS CEMENTITIOUS BACKER BOARD IS SPECIFIED.
7. METAL STUDS SHALL BE 20 GAUGE MINIMUM. MAXIMUM HEIGHT IS 15'-0". PARTITION HEIGHTS THAT EXCEED 15'-0" SHALL INCREASE IN GAUGE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION TECHNICAL GUIDE, LATEST EDITION.

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers

acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103

office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — JOSEPH LEONARD JELINEK — 21734 — REGISTERED ARCHITECT — 6/18/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

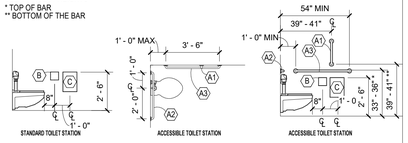
Drawing Title	PARTITION TYPES
Phase	FINAL BID DOCUMENTS
Project Title	UPGRADE PROSTHETICS LAB
Project Number	561-19-160
Building Number	1
Approved:	
	FULLY SPRINKLERED
Location	VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS
Issue Date	6/18/2021
Checked	JLH
Drawn	ACELA
Drawing Number	GC102

C:\Users\akovsky\Documents\561-19-160_Prosthetics Lab VA R22\19 CM 11-06-20_akovsky.RVBDSY.rvt
7/12/2021 3:33:17 PM

TOILET ACCESSORY SCHEDULE

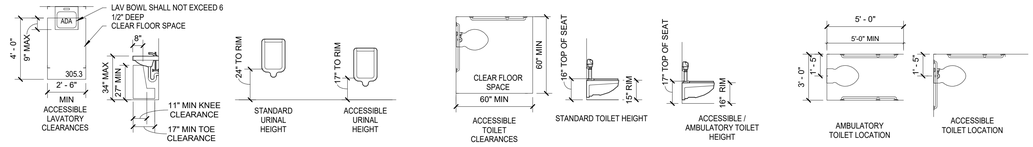
SYM	DESCRIPTION	MANUFACTURER / MODEL NUMBER	REMARKS
A1	18" GRAB BAR	BOBRICK B-6897 x 18	MIN 1 1/2" CLEARANCE BETWEEN GRAB BARS AND ALL WALLS, FIXTURES, ACCESSORIES TYP. BOBRICK B-2583 CONCEALED ANCHOR PLATES
A2	36" GRAB BAR	BOBRICK B-6897 x 36	
A3	42" GRAB BAR	BOBRICK B-6897 x 42	
B	TOILET TISSUE DISPENSER	PROVIDED BY VA, INSTALLED BY GC	
C	SANITARY NAPKIN DISPOSAL	PROVIDED BY VA, INSTALLED BY GC	
D	SEAT COVER DISPENSER	PROVIDED BY VA, INSTALLED BY GC	
E1	ADA WATERCLOSET	SEE PLUMBING DRAWINGS	
F	WALL-HUNG LAVATORY	SEE PLUMBING DRAWINGS	
G	SOAP DISPENSER	PROVIDED BY VA, INSTALLED BY GC	
H	DOUBLE COAT HOOK	BOBRICK B-7672	
I	SINK SHROUD	TRUEBRO #2018SLSS3003	
Q	MIRROR	BOBRICK B-2931836 *BOTTOM EDGE OF REFLECTING SURFACE TYP MIRROR NOTE: CENTERED ON FIXTURE OR WASH STATION UNLESS NOTED OTHERWISE	
R	BABY CHANGING STATION	KOALA KARE KB200-01SS	
V	PAPER TOWEL DISPENSER	PROVIDED BY VA, INSTALLED BY GC	

NOTE: SEE DETAILS BELOW FOR FIXTURE CLEARANCES / HEIGHTS
* TOP OF BAR
** BOTTOM OF THE BAR

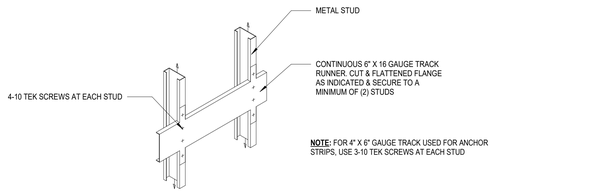


**TO HIGHEST OPERABLE COMPONENT.

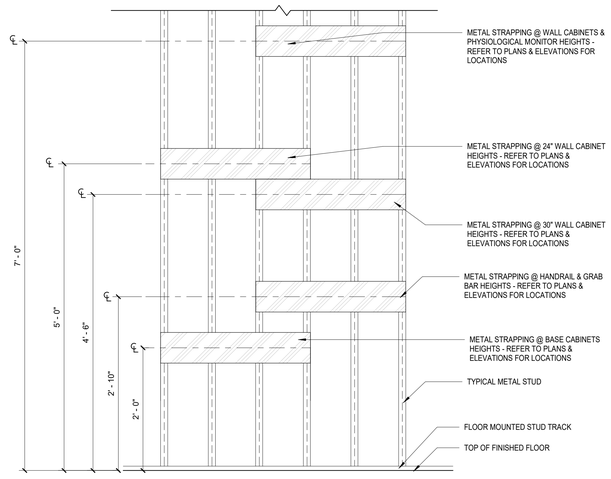
TOILET ACCESSORY NOTES:
1. GC TO PROVIDE AND INSTALL ALL TOILET ACCESSORIES UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL VERIFY THAT ALL FIXTURES, PIPES, AND ACCESSORIES DESIGNATED FOR ACCESSIBLE USE CAN BE INSTALLED WITHIN THE BELOW CLEARANCE REQUIREMENTS PRIOR TO INSTALLATION.



ACCESSIBLE CLEARANCES & FIXTURE INSTALLATION LOCATIONS
SCALE: 1/4"=1'-0"

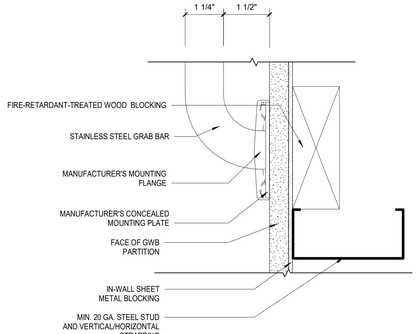


NOTE: FOR 4" X 6" GAUGE TRACK USED FOR ANCHOR STRIPS, USE 3-10 TEK SCREWS AT EACH STUD

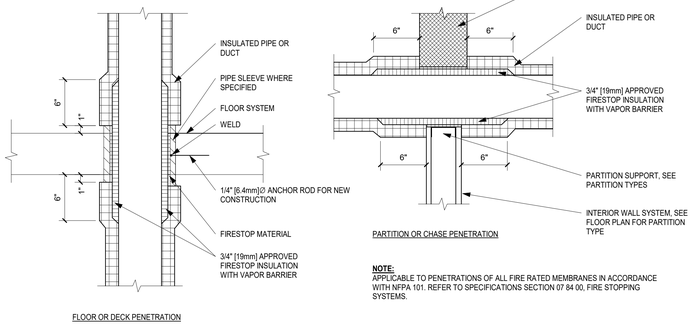


NOTE: METAL STRAPPING TO BE FASTENED (1) STUD BEYOND LOCATIONS NEEDED

6 DETAIL - TYPICAL BLOCKING EXTENTS
1" = 1'-0"

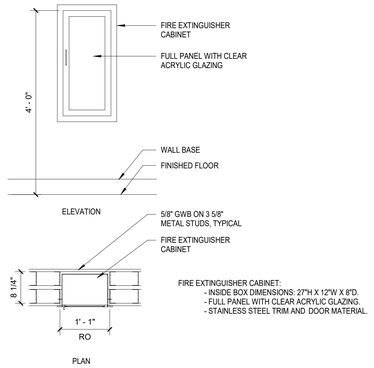


5 DETAIL - ADA GRAB BAR CONNECTION
6" = 1'-0"



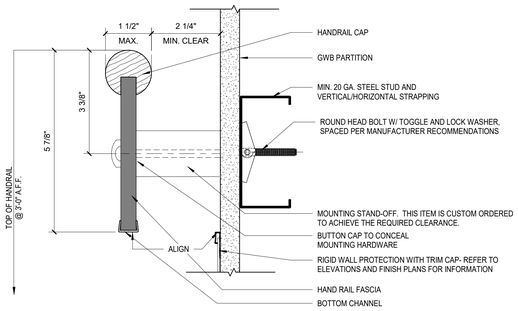
NOTE:
APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION 07 84 00, FIRE STOPPING SYSTEMS.

4 TYPICAL PIPE/DUCT PENETRATION OF SMOKE/FIRE BARRIERS
1 1/2" = 1'-0"

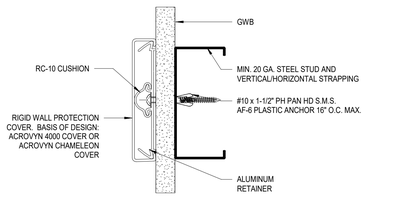


FIRE EXTINGUISHER CABINET:
- INSIDE BOX DIMENSIONS: 27"H X 12"W X 8"D.
- FULL PANEL WITH CLEAR ACRYLIC GLAZING.
- STAINLESS STEEL TRIM AND DOOR MATERIAL.

3 FIRE EXTINGUISHER CABINET
3/4" = 1'-0"



2 DETAIL - HANDRAIL
6" = 1'-0"



1 DETAIL - CRASH RAIL / WALL BUMPER SECTION
6" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — LEONARD J. PINTO — LICENSED ARCHITECT — 21734
6/18/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: STANDARDS & TYPICAL DETAILS	Phase: FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

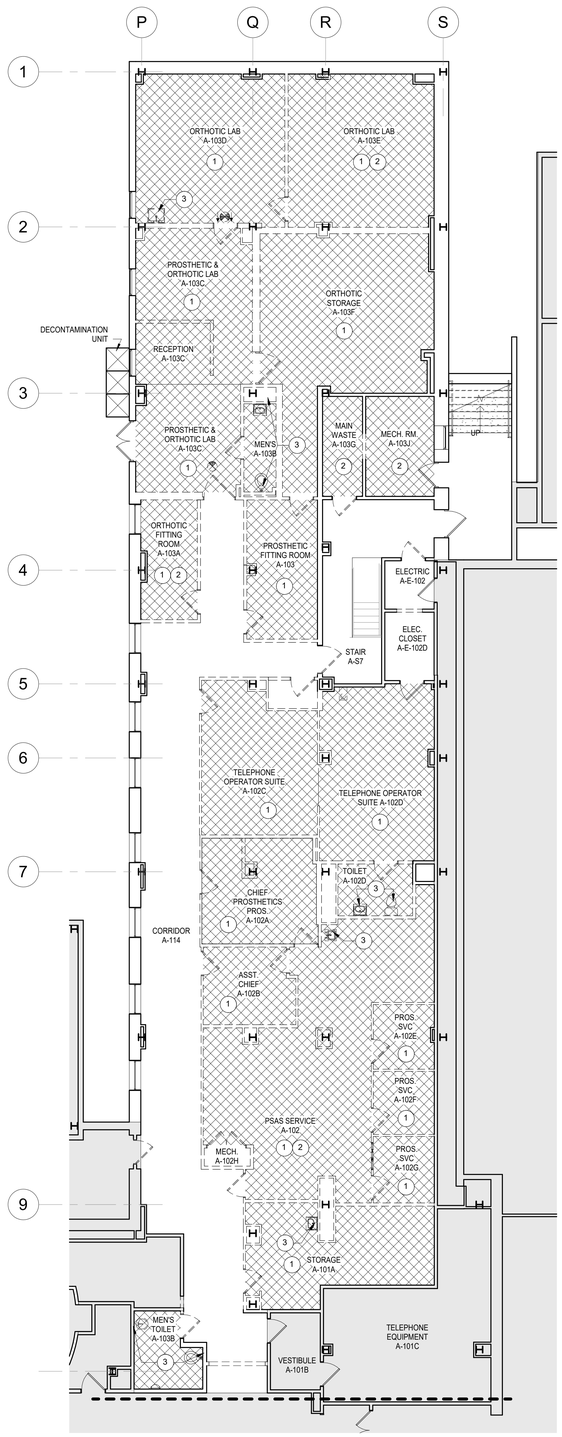
Project Title: UPGRADE PROSTHETICS LAB		Project Number: 561-19-160
		Building Number: 1
Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS		Drawing Number: GC103
Issue Date: 6/18/2021	Checked: JLH	Drawn: ACELA

Page 8 of 43

VA FORM 08 - 6231

C:\Users\akunsky\Documents\561-19-160_Prosthetics Lab VA R2019 CM 11-06-20_akunsky#ZW97-rvt

7/1/2021 3:33:19 PM



1 ABATEMENT PLAN
1/8" = 1'-0"
0' 2' 4' 8' 16'
1/8" = 1'-0"

Floor	Functional Space #	Room Description	HSA #	Material Description	Quantity Estimate	Type of ACM	Material Category	ACM Assessment: Friability	Condition	Amount of Damage	Potential for Disturbance	Potential for Human Exposure	Response Action	Notes
A	101A	Storage	A-30	Mastic under 12"x12" medium gray speckled	125 sf	1.4% Ch	Misc	NF1	Good	0 sf	Low	Low	1	
A	102	PSAS Service	A-17	Pipe insulation - corrugated	24 lf	10% Ch	TSI	Fri	Good	0 lf	Low	Low	1	Assumed in plaster wall chases 1304 SF
			A-28	Mastic under 12"x12" tan w/multicolor specks VFT - black	910 sf	1.9% Ch	Misc	NF1	Good	0 sf	Low	Low	1	
A	102C 102D	Telephone Operator Suite	A-28	Mastic under 12"x12" tan w/multicolor specks VFT - black	200 sf	1.9% Ch	Misc	NF1	Good	0 sf	Low	Low	1	Assumed under carpeting 525 SF
			A-64	12"x12" vinyl floor tile - light beige streaked	645 sf	12.1% Ch	Misc	NF1	Good	0 sf	Low	Low	1	568 SF
			A-65	Mastic under 12"x12" light beige streaked VFT - black	645 sf	1.3% Ch	Misc	NF1	Good	0 sf	Low	Low	1	136 SF
A	102A	Chief Prost Pros	A-28	Mastic under 12"x12" tan w/multicolor specks VFT - black	200 sf	1.9% Ch	Misc	NF1	Good	0 sf	Low	Low	1	576 SF
A	102B	Asst. Chief	A-28	Mastic under 12"x12" tan w/multicolor specks VFT - black	115 sf	1.9% Ch	Misc	NF1	Good	0 sf	Low	Low	1	344 SF
A	102E	Pros. Svc.	A-28	Mastic under 12"x12" tan w/multicolor specks VFT - black	70 sf	1.9% Ch	Misc	NF1	Good	0 sf	Low	Low	1	INCLUDED IN A102 SF
A	102F	Pros. Svc.	A-28	Mastic under 12"x12" tan w/multicolor specks VFT - black	70 sf	1.9% Ch	Misc	NF1	Good	0 sf	Low	Low	1	INCLUDED IN A102 SF
A	102G	Pros. Svc.	A-28	Mastic under 12"x12" tan w/multicolor specks VFT - black	70 sf	1.9% Ch	Misc	NF1	Good	0 sf	Low	Low	1	INCLUDED IN A102 SF
A	103	Prosthetic Fitting Room	A-04	12"x12" vinyl floor tile - medium beige clouded	165 sf	2.4% Ch	Misc	NF1	Good	0 sf	Low	Low	1	408 SF
A	103A	Orthotic Fitting Room	A-04	12"x12" vinyl floor tile - medium beige clouded	115 sf	2.4% Ch	Misc	NF1	Good	0 sf	Low	Low	1	
			A-17	Pipe insulation - corrugated	24 lf	10% Ch	TSI	Fri	Good	0 lf	Low	Low	1	Assumed in plaster wall chases 368 SF
A	103C	Prosthetic & Orthotic Lab	A-12	Mastic under 12"x12" light green streaked - black	485 sf	2.5% Ch	Misc	NF1	Good	0 sf	Low	Low	1	618 SF

Floor	Functional Space #	Room Description	HSA #	Material Description	Quantity Estimate	Type of ACM	Material Category	ACM Assessment: Friability	Condition	Amount of Damage	Potential for Disturbance	Potential for Human Exposure	Response Action	Notes
A	103D	Orthotic Lab	A-12	Mastic under 12"x12" light green streaked - black	380 sf	2.5% Ch	Misc	NF1	Good	0 sf	Low	Low	1	632 SF
A	103E	Orthotic Lab	A-12	Mastic under 12"x12" light green streaked - black	370 sf	2.5% Ch	Misc	NF1	Good	0 sf	Low	Low	1	464 SF
			A-17	Pipe insulation - corrugated	1 lf	10% Ch	TSI	Fri	Good	0 lf	Low	Low	1	Observed in wall
A	103F	Orthotic Storage	A-13	9"x9" vinyl floor tile - cream w/white & brown specks	645 sf	1.6% Ch	Misc	NF1	Good	0 sf	Low	Low	1	760 SF
			A-14	Mastic under 9"x9" cream w/white & brown specks VFT - black	645 sf	1.5% Ch	Misc	NF1	Good	0 sf	Low	Low	1	
A	103G	Main Waste	A-17	Pipe insulation - corrugated	3 lf	10% Ch	TSI	Fri	Good	0 lf	Low	Low	1	Observed 288 SF
			A-24	Pipe insulation - cardboard	10 lf	4.1% Ch	TSI	Fri	Good	0 lf	Low	Low	1	Observed
			A-25	Pipe fitting insulation	7 ea	60% Ch	TSI	Fri	Good	0 lf	Low	Low	1	Observed
A	103J	Mechanical Room	A-17/A19	Pipe insulation / fittings	25 lf	10%-60%	TSI	Fri	Good	0 lf	Low	Low	1	352 SF

ABATEMENT - GENERAL NOTES

A. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING MATERIALS AS NOTED INCLUDING THE REMOVAL OF ALL NON ASBESTOS-CONTAINING MATERIALS SUCH AS VINYL AND CERAMIC FLOORING, AND ANY DEMOLITION, REMOVAL AND DISPOSAL NECESSARY TO EXPOSE ASBESTOS CONTAINING MATERIALS AND DEBRIS INCLUDING ALL REQUIRED PREPARATION, CLEANING, ENCAPSULATION AND DECONTAMINATION IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS AND THE PROJECT PLANS AND SPECIFICATIONS.

B. CONCEALED ACM (PIPE INSULATION) MAY EXIST WITHIN WALLS, CHASES, AND ABOVE RIGID CEILINGS, COORDINATE ACCESS WITH THE GENERAL CONTRACTOR IF EXPLORATORY DEMOLITION IS REQUIRED.

C. IF SUSPECTED ASBESTOS OR HAZARDOUS MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY, AND NOTIFY THE OWNER/ARCHITECT IN WRITING, PRIOR TO CONTINUING WORK.

D. INSTALL CRITICAL BARRIERS AND WARNING SIGNS TO ESTABLISH ABATEMENT WORK AREAS PRIOR TO THE START OF REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS PER THE PROJECT SPECIFICATIONS.

E. INSTALL NEGATIVE AIR MACHINE FOR LOCAL EXHAUST VENTILATION BASED ON SITE CONDITIONS, BEST PRACTICES, AND SPECIFICATIONS. GC TO PROVIDE THE REQUIRED NUMBER OF HIGH EFFICIENCY PARTICULATE AIR-EQUIPPED (HEPA) FILTRATION MACHINE RATED AT 95% CAPTURE OF 0.3 MICRONS INCLUDING POLLEN, MOLD SPORES AND DUST PARTICLES FOR ALL AREAS OF ABATEMENT. CONFIGURE AND PLACE NEGATIVE AIR MACHINES AS NEEDED TO MAXIMIZE AIR MOVEMENT AND TO ACHIEVE FOUR (4) AIR CHANGES PER HOUR. COORDINATE NEGATIVE AIR DISCHARGE LOCATIONS TO EXHAUST OUTSIDE OF BUILDING.

F. INSTALL FULL CONTAINMENT INCLUDING THREE STAGE PERSONAL DECONTAMINATION UNIT.

G. FOR MATERIALS REPORTED TO CONTAIN <1% ASBESTOS, FOLLOW OSHA REQUIREMENTS FOR MATERIALS WITH 1% OR LESS ASBESTOS, INCLUDING WET HANDLING, CLEAN UP, DISPOSAL IN LEAK TIGHT CONTAINERS, AND AN EXPOSURE ASSESSMENT.

H. AN ASBESTOS SURVEY REPORT FOR THE ENTIRE AREA IS INCLUDED IN THE SPECIFICATIONS.

I. PERFORM ALL WORK IN ACCORDANCE WITH THE PHASING PLANS AS OUTLINED WITHIN THE PROJECT.

ABATEMENT LEGEND

SCOPE OF ABATEMENT WORK. REFER TO NOTES AND SUMMARY OF MATERIALS FOR ADDITIONAL INFORMATION

THREE (3) STAGE PERSONAL DECONTAMINATION UNIT. INSTALL AT CONTAINMENT WORK AREAS AS REQUIRED. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO COORDINATE WITH COR ON FINAL LOCATION
- CLEAN ROOM
- SHOWER ROOM
- EQUIPMENT / DIRTY ROOM

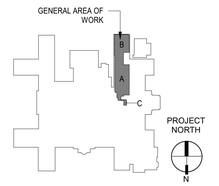
AREA OF WORK GENERALLY NOT INCLUDED IN CONTRACT

SUMMARY OF MATERIALS TO BE ABATED

DESCRIPTION	CATEGORY	QUANTITY
PIPE INSULATION	FRIABLE	APPROXIMATELY 120 LF
MASTIC FLOORING ADHESIVE	NON-FRIABLE	APPROXIMATELY 5,750 SF

ABATEMENT KEY NOTES

NUMBER	DESCRIPTION
1	REMOVE FLOOR TILE AND MASTIC. ESTABLISH FULL CONTAINMENT WITH NEGATIVE PRESSURE EXHAUST TO REMOVE ASBESTOS FLOORING AND MASTIC IN ACCORDANCE WITH THE SPECIFICATIONS, ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, AND THE APPROVED HAZARD ABATEMENT PLAN
2	REMOVE PIPE INSULATION. ESTABLISH FULL CONTAINMENT WITH NEGATIVE PRESSURE EXHAUST TO REMOVE PIPE INSULATION USING THE GLOVEBAG ABATEMENT METHODS IN ACCORDANCE WITH THE SPECIFICATIONS, ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, AND THE APPROVED HAZARD ABATEMENT PLAN
3	APPROXIMATE LOCATION OF PIPING WITH ASBESTOS INSULATION TO BE ABATED AND REMOVED. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION



A LEVEL KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

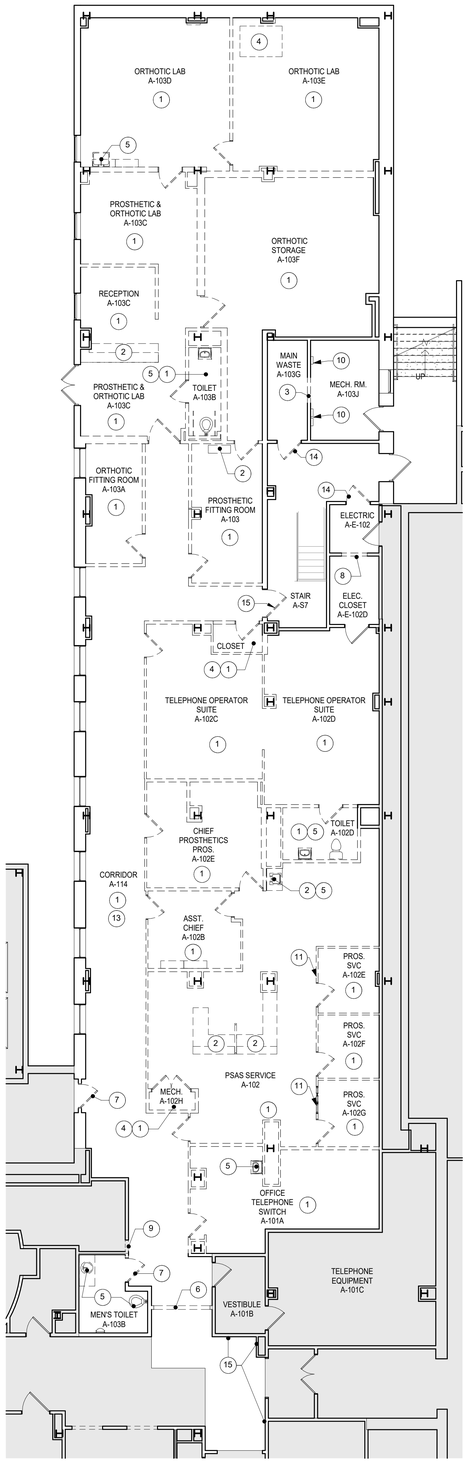
STATE OF NEW JERSEY — JOHN LEONARD LUNN — 21734 — REGISTERED ARCHITECT — 6/18/2021

Office of Construction and Facilities Management

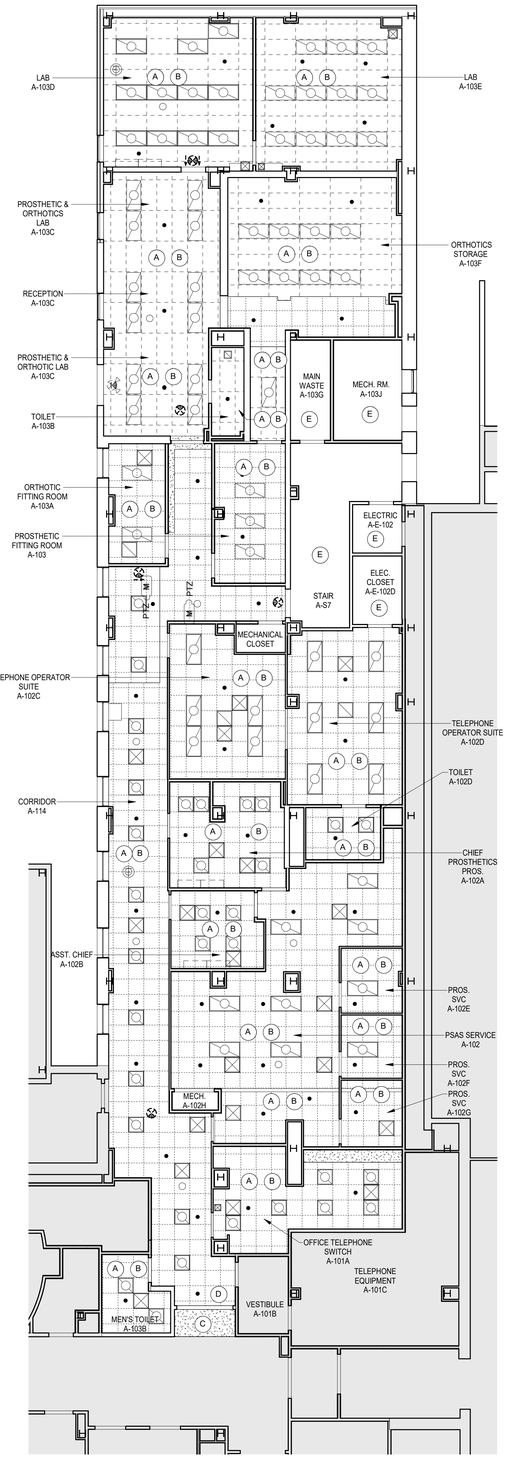
VA | U.S. Department of Veterans Affairs

Drawing Title	A LEVEL ASBESTOS ABATEMENT PLANS
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	UPGRADE PROSTHETICS LAB
Location	VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS
Issue Date	6/18/2021
Checked	JLH
Drawn	ACELA
Project Number	561-19-160
Building Number	1
Drawing Number	HA101

C:\Users\dakovsky\Documents\561-19-160_Prosthetics Lab VA R22\19 CM 11-06-20_dakovskyVRSKY.rvt
7/12/2021 3:33:53 PM



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



1 REFLECTED CEILING PLAN - DEMOLITION
1/8" = 1'-0"

GENERAL NOTE:

REFER TO 'GM01' FOR EXISTING CONDITION PHOTOS FOR FURTHER CLARIFICATION ON CERTAIN CONDITIONS

DEMOLITION KEY NOTES

# NUMBER	DESCRIPTION
1	REMOVE EXISTING FLOORING AND WALL BASE THROUGHOUT. REMOVE EXISTING WALLS/PARTITIONS AS NOTED IN PLAN. WHERE WALLS/PARTITIONS MEET A WALL OR EXISTING SURFACE TO REMAIN, CONTRACTOR SHALL CLEAN, SAND AND REPAIR SURFACE AS NECESSARY SO THAT THE REMOVAL IS NOT APPARENT
2	REMOVE EXISTING CABINETRY AND COUNTERTOPS. PATCH, REPAIR, CLEAN AND PREP SURFACE TO BE SMOOTH AND READY TO RECEIVE NEW FINISH
3	PROVIDE NEW OPENING IN EXISTING WALL FOR NEW DOOR. PROVIDE TEMPORARY SHORING AS NECESSARY. PREPARE EXISTING CONSTRUCTION TO RECEIVE NEW DOOR/WINDOW. WHERE AN OPENING IS CUT INTO EXISTING WALL SURFACE, ALL CUTS SHALL BE CLEAN, LEVEL AND ALL AFFECTED SURFACES SHALL BE REPAIRED AND FINISHED TO MATCH ADJACENT NEW OR EXISTING CONSTRUCTION
4	REMOVE ALL EXISTING MECHANICAL EQUIPMENT AND DUCTWORK THAT WILL NOT BE REUSED. REMOVAL TO INCLUDE BUT IS NOT LIMITED TO DUCTWORK, DIFFUSERS, RADIATORS, BASEBOARD UNITS, FANS AND ABANDONDED EQUIPMENT. CONTRACTOR SHALL COORDINATE EQUIPMENT REMOVAL WITH MECHANICAL DRAWINGS
5	REMOVE EXISTING PLUMBING EQUIPMENT. REMOVAL SHALL INCLUDE BUT IS NOT LIMITED TO TOILETS, LAVATORIES, AND TOILET ACCESSORIES, KITCHEN SINK AND DRAIN. REFERENCE MEP DRAWINGS. PATCH, REPAIR AND PREPARE TO EXISTING FLOORS AND WALLS NOT SCHEDULED FOR DEMOLITION
6	REMOVE EXISTING HOLLOW METAL DOOR FRAME AND ASSOCIATED WALL COMPONENTS. PATCH EXISTING SOFFIT TO REMAIN
7	REMOVE EXISTING DOOR AND FRAMING AND PREP OPENING TO RECEIVE NEW DOOR AND FRAME. REFER TO NEW WORK PLANS FOR EXTENT
8	PROVIDE NEW OPENING IN EXISTING WALL. REFER TO NEW WORK PLANS FOR EXTENT. PREPARE EXISTING CONSTRUCTION TO RECEIVE NEW DOOR/WINDOW. WHERE AN OPENING IS CUT INTO EXISTING WALL SURFACE, ALL CUTS SHALL BE CLEAN, LEVEL AND ALL AFFECTED SURFACES SHALL BE REPAIRED AND FINISHED TO MATCH ADJACENT NEW OR EXISTING CONSTRUCTION
9	PROVIDE NEW OPENING IN EXISTING WALL FOR NEW FIRE EXTINGUISHER CABINET. REMOVE EXISTING CEILING AS REQUIRED WITHIN ADJACENT ROOM. REFER TO NEW WORK PLANS FOR EXTENT. PREPARE EXISTING CONSTRUCTION TO RECEIVE NEW DOOR/WINDOW. WHERE AN OPENING IS CUT INTO EXISTING WALL SURFACE, ALL CUTS SHALL BE CLEAN, LEVEL AND ALL AFFECTED SURFACES SHALL BE REPAIRED AND FINISHED TO MATCH ADJACENT NEW OR EXISTING CONSTRUCTION
10	REMOVE AND/OR RELOCATE EXISTING ELECTRICAL AND LOW VOLTAGE EQUIPMENT AS REQUIRED. REFER TO MEP DRAWINGS FOR EXTENT OF DEMOLITION AND NEW WORK
11	REMOVE EXISTING PARTIAL HEIGHT PARTITION SYSTEMS AND THEIR DOORS THROUGHOUT
12	EXISTING PIPING IS TO BE RELOCATED ABOVE THE NEW CEILING. REFER TO MEP DRAWINGS FOR EXTENT OF DEMOLITION AND NEW WORK
13	EXISTING HANDRAILS AND WALL BUMPERS TO BE REMOVED THROUGHOUT SCOPE OF WORK
14	REMOVE EXISTING DOOR AND FRAMING AND PREP OPENING TO BE INFILLED. INFILL OPENING IMMEDIATELY AFTER REMOVAL OF EXISTING DOOR AND FRAME
15	EXISTING HANDRAIL, WALL BUMPERS AND WALL BASE ARE TO BE REMOVED ON WALLS NOTED AND WALLS ARE TO BE PREPPED TO RECEIVED NEW HANDRAIL, WALL BUMPER AND WALL BASE TO MATCH NEW SCOPE OF WORK

DEMOLITION RCP KEY NOTES

X NUMBER	DESCRIPTION
A	REMOVE EXISTING CEILING. REMOVAL SHALL BE, BUT NOT LIMITED TO GWB, CEILING TILES, CEILING GRID AND ASSOCIATED CURTAIN TRACK, METAL FASTENERS, TIE RODS, AND SUSPENDED SIGNAGE. TEMPORARILY SUPPORT EXISTING DEVICES TO REMAIN FOR INSTALLATION OF NEW CEILINGS. REFER TO MEP DRAWINGS FOR MORE INFORMATION
B	REMOVE ALL EXISTING MECHANICAL EQUIPMENT AND DUCTWORK THAT WILL NOT BE REUSED. REMOVAL TO INCLUDE BUT IS NOT LIMITED TO DUCTWORK, DIFFUSERS, RADIATORS, BASEBOARD UNITS, FANS AND ABANDONDED EQUIPMENT. CONTRACTOR SHALL COORDINATE EQUIPMENT REMOVAL WITH MECH
C	EXISTING CEILING SYSTEM TO REMAIN
D	REMOVE EXISTING HOLLOW METAL DOOR FRAME AND ASSOCIATED WALL COMPONENTS. PATCH EXISTING SOFFIT TO REMAIN
E	NO CEILING WORK

DEMOLITION LEGEND - FLOOR PLAN

- EXISTING CONSTRUCTION TO REMAIN. PATCH AS REQUIRED BY THE SPECIFICATIONS WITHIN THE CONTRACT AREA.
- EXISTING CONSTRUCTION TO REMAIN. PATCH AS REQUIRED BY THE SPECIFICATIONS WITHIN THE CONTRACT AREA.
- EXISTING WALL CONSTRUCTION SHOWN HATCHED TO BE DEMOLISHED AND REMOVED IN ITS ENTIRETY. ALL WALLS ARE ASSUMED TO BE OF MASONRY CONSTRUCTION.
- EXISTING DOOR, HARDWARE AND HOLLOW METAL FRAME SHOWN AS HATCHED TO BE REMOVED IN ITS ENTIRETY
- EXISTING DOOR, HARDWARE AND HOLLOW METAL FRAME SHOWN AS HATCHED TO BE REMOVED IN ITS ENTIRETY
- PORTION OF EXISTING WALL TO BE REMOVED. PROVIDE NEW STRUCTURAL LINTEL AS REQUIRED.
- EXISTING COLUMN ENCLOSURE TO BE REMOVED, UNLESS OTHERWISE NOTED.
- EXISTING WALL MOUNTED SINK TO BE REMOVED.
- EXISTING LAVATORY TO BE REMOVED.
- EXISTING WATER CLOSET TO BE REMOVED
- EXISTING URINAL TO BE REMOVED
- AREA OF WORK GENERALLY NOT INCLUDED IN CONTRACT

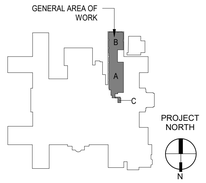
DEMOLITION LEGEND - RCP

- EXISTING ACOUSTICAL CEILING TILE SYSTEM TO BE REMOVED
- EXISTING GYP. BOARD SOFFIT TO BE REMOVED
- EXISTING LIGHT FIXTURE(S) TO BE REMOVED
- EXISTING MECHANICAL GRILLES TO BE REMOVED. GC TO MODIFY MECHANICAL SYSTEM AS REQUIRED.
- SPRINKLER HEAD. MODIFY EXISTING FIRE PROTECTION SYSTEM AS REQUIRED FOR NEW WORK. SEE FIRE PROTECTION DRAWINGS.
- EXISTING CEILING MOUNTED WIRELESS ACCESS POINT TO BE REMOVED
- M PTZ CAMERA TO BE REMOVED
- EXIT SIGN TO BE REMOVED
- EMERGENCY LIGHT TO BE REMOVED
- EXISTING OVERHEAD CABINET TO BE REMOVED
- AREA OF WORK GENERALLY NOT INCLUDED IN CONTRACT.

Architectural Demolition - Finishes

Room Number	Room Name	Base Finish	Floor Finish	Wall Finish	Ceiling Finish	Specialty	Comments
A-101A	OFFICE TELEPHONE SWITCH	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-102	PSAS SERVICE	VINYL WALL BASE	VINYL FLOOR TILE AND BROADLOOM CARPET	PAINT	ACOUSTIC TILE AND GRID, GWB SOFFIT	STAINLESS STEEL CORNER GUARDS	
A-102B	ASSISTANT CHIEF	VINYL WALL BASE	BROADLOOM CARPET	PAINT	ACOUSTIC TILE AND GRID, GWB SOFFIT	N/A	
A-102C	TELEPHONE OPERATOR SUITE	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-102D	TELEPHONE OPERATOR SUITE	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-102D	TOILET	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-102E	CHEIF PROSTHETICS PROS.	VINYL WALL BASE	BROADLOOM CARPET	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-102E	PROSCTHETIC SERVICE	VINYL WALL BASE	BROADLOOM CARPET	SYSTEMS FURNITURE PANELS AND PAINT	ACOUSTIC TILE AND GRID	SYSTEMS FURNITURE COMPONENTS	
A-102F	PROSCTHETIC SERVICE	VINYL WALL BASE	BROADLOOM CARPET	SYSTEMS FURNITURE PANELS AND PAINT	ACOUSTIC TILE AND GRID	SYSTEMS FURNITURE COMPONENTS	
A-102G	PROSTHETIC SERVICE	VINYL WALL BASE	VINYL FLOOR TILE	SYSTEMS FURNITURE PANELS AND PAINT	ACOUSTIC TILE AND GRID	SYSTEMS FURNITURE COMPONENTS	
A-102H	MECH. CLOSET	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	NONE	N/A	EXISTING CEILING CONDITION IS OPEN TO ABOVE
A-103	PROSTHETIC FITTING ROOM	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-103A	ORTHOTIC FITTING ROOM	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	WINDOW BLINDS	WINDOWS SILLS: EXISTING TO REMAIN
A-103B	TOILET	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-103B	MEN'S TOILET	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-103C	PROSTHETIC AND ORTHOTIC LAB	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	CUBICLE CURTAIN, WINDOW BLINDS	WINDOWS SILLS: EXISTING TO REMAIN
A-103C	RECEPTION	VINYL WALL BASE	VINYL FLOOR TILE AND RUBBER WALK-OFF MAT	PAINT	ACOUSTIC TILE AND GRID	RECEPTION WORKSURFACE AND SUPPORTS AND WINDOW BLINDS	
A-103D	ORTHOTIC LAB	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	METAL WALL CABINETS AND WINDOW BLINDS	WINDOWS SILLS: EXISTING TO REMAIN
A-103E	ORTHOTIC LAB	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-103F	ORTHOTIC STORAGE	VINYL WALL BASE	VINYL FLOOR TILE	PAINT	ACOUSTIC TILE AND GRID	N/A	
A-103G	MAIN WASTE	DEMO FLOOR BASE AT NEW DOOR LOCATION	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	
A-103J	MECH. ROOM	DEMO FLOOR BASE AT NEW DOOR LOCATION	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	
A-114	CORRIDOR	VINYL WALL BASE	LUXORY VINYL TILE AND RUBBER WALK-OFF MAT	PAINT	ACOUSTIC TILE AND GRID, GWB SOFFIT	HANDRAIL, CRASH RAIL, SIGNAGE, CHAIR GUARD, STAINLESS STEEL CORNER GUARDS AND WINDOW BLINDS	WINDOWS SILLS: EXISTING TO REMAIN
A-E-102	ELECTRIC	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	
A-E-102D	ELEC. CLOSET	DEMO FLOOR BASE AT NEW DOOR LOCATION	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	EXISTING WALLS AR ENOT FINISHED. EXISTING CEILING CONDITION IS OPEN TO ABOVE
A-S7	STAIR	VINYL WALL BASE	BROADLOOM CARPET	EXISTING TO REMAIN	EXISTING TO REMAIN	N/A	

NOTE: REFER TO HA101 FOR FURTHER INFORMATION ON FINISH/MATERIAL ABATEMENT LOCATIONS.



A LEVEL KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — JOHN LEONARD — 21734 — REGISTERED ARCHITECT — 6/18/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: A LEVEL - FLOOR & REFLECTED CEILING PLANS - DEMOLITION

Approved:

Phase: FINAL BID DOCUMENTS

FULLY SPRINKLERED

Project Title: UPGRADE PROSTHETICS LAB

Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS

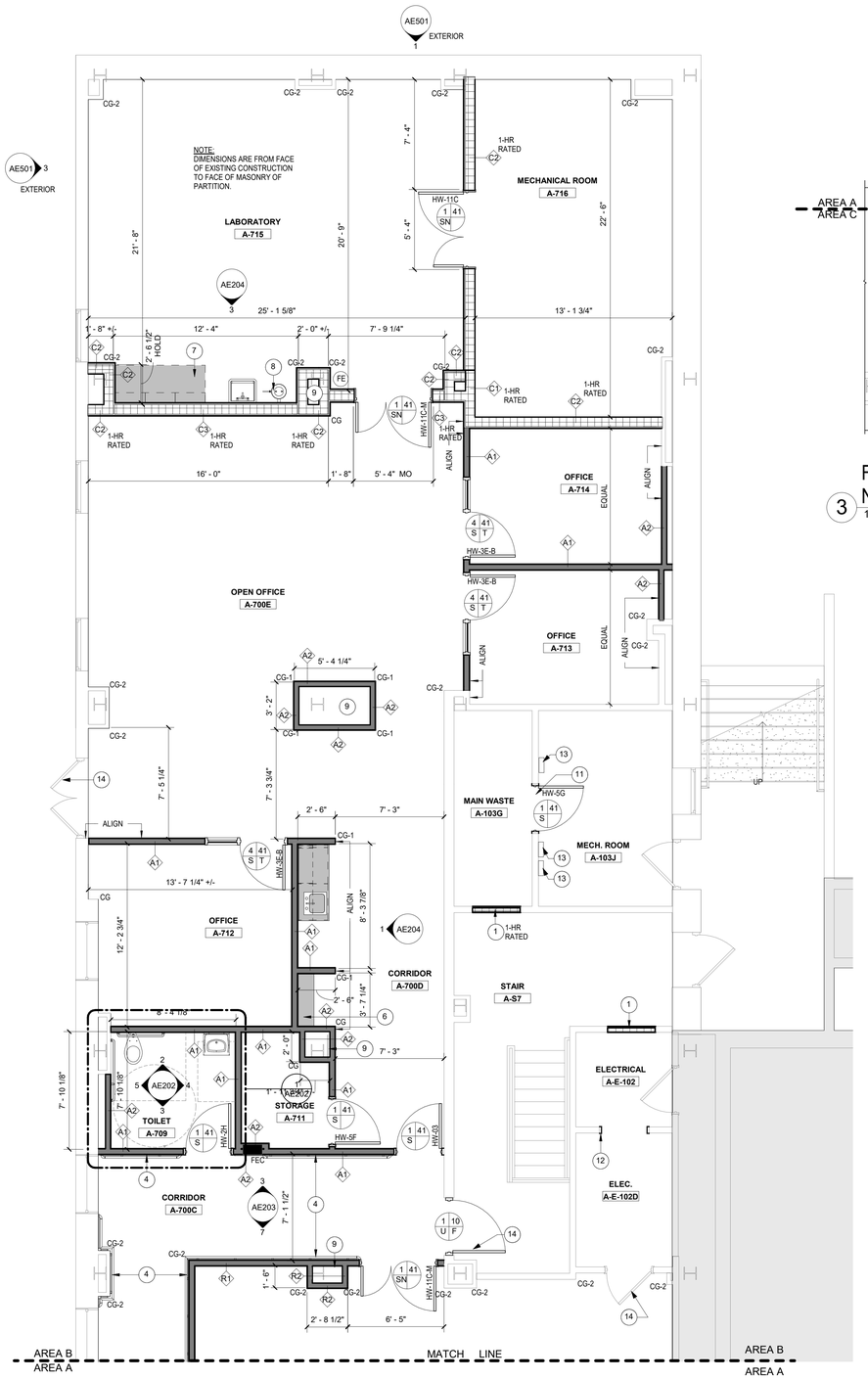
Issue Date: 6/18/2021 | **Checked**: JLH | **Drawn**: ACELA

Project Number: 561-19-160

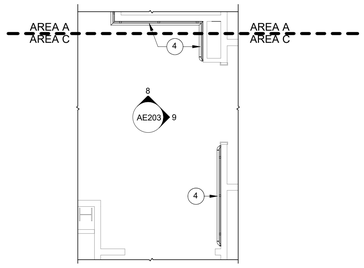
Building Number: 1

Drawing Number: AD101

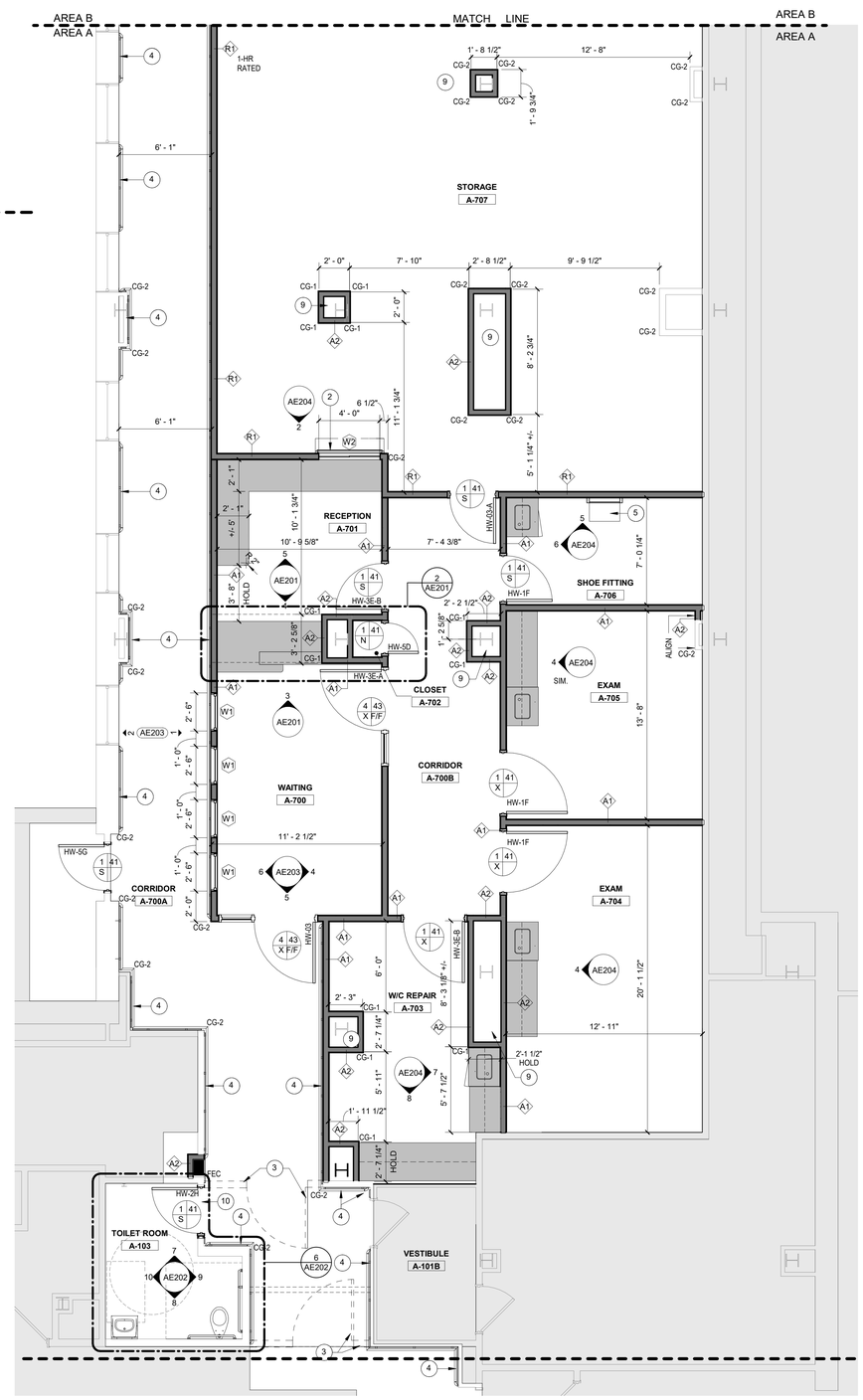
C:\Users\dakunady\Documents\561-19-160_Prosthetics Lab VA 6QV1d CM 11-06-20_dakunady.RVB057.rvt
7/12/2021 3:32:27 PM



2 FLOOR PLAN - AREA B - NEW WORK
1/4" = 1'-0"



3 FLOOR PLAN - AREA C - NEW WORK
1/4" = 1'-0"



1 FLOOR PLAN - AREA A - NEW WORK
1/4" = 1'-0"

NEW FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION TO REMAIN. PATCH AS REQUIRED FOR NEW FINISHES IF INDICATED ON FINISH SCHEDULE.
- NEW CONSTRUCTION
- NEW CONSTRUCTION - 8" CMU WALLS
- NEW WATER CLOSET
- NEW WALL MOUNTED LAVATORY
- NEW COUNTER MOUNTED SINK
- NEW WALL MOUNTED SERVICE SINK
- NEW EYE WASH
- FE — WALL MOUNTED FIRE EXTINGUISHER
- NEW CASEWORK/ MILLWORK
- AREA OF WORK GENERALLY NOT INCLUDED IN CONTRACT

GENERAL FLOOR PLAN NOTES

A. ALL PARTITIONS TO BE TYPE 'A1' UNLESS NOTED OTHERWISE. REFER TO GC401 FOR PARTITION INFORMATION

B. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. IF DRAWINGS CONFLICT WITH ACTUAL FIELD CONDITIONS, CONTACT ARCHITECT PRIOR TO PROCEEDING WITH WORK

C. REFER TO LIFE SAFETY PLANS FOR RATED WALL LOCATIONS

D. REFER TO AQ-SERIES DRAWINGS FOR FURNITURE AND EQUIPMENT LOCATION COORDINATION

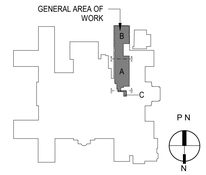
E. PROVIDE CONCEALED IN-WALL REINFORCING / BLOCKING FOR ATTACHMENT OF ALL MILLWORK, CASEWORK, AND / OR ACCESSORIES AS REQUIRED

F. ALL DIMENSIONS ARE TO FACE STUD UNLESS NOTED OTHERWISE. VERIFY IN FIELD WITH DESIGNER FINAL LOCATIONS OF ALL LIGHT SWITCHES, STROBES, FIRE EXTINGUISHER CABINETS, FIRE ALARM PULLS AND OTHER DEVICES ON WALLS

G. REFER TO FINISH SCHEDULE IN 'A' SERIES DRAWINGS FOR CORNER GUARD (CG-1 & CG-2) TYPES

NEW WORK PLAN KEY NOTES

NUMBER	DESCRIPTION
1	CMU INFILL. TOOTH-IN INFILL CMU AND INFILL EXISTING MASONRY OPENING TO MATCH EXISTING. PREP WALLS FOR NEW FINISHES. SEE FINISH SCHEDULE.
2	SILL OF FIRE SHUTTER DOOR TO BE MILLWORK. REFER TO DETAIL 8/GC301
3	DASHED LINES REPRESENT APPROXIMATE LOCATION OF ICRA PARTITIONS & DOORS TO REMAIN DURING CONSTRUCTION. ONCE CONSTRUCTION HAS BEEN COMPLETED, ICRA PARTITIONS & DOORS ARE TO BE REMOVED. PATCH, CLEAN & REPAIR AREA TO MATCH NEW CONSTRUCTION AND FINISHES. REFERENCE DRAWING GI301 FOR ADDITIONAL INFORMATION.
4	HANDRAIL AND BUMPER RAIL: SEE FINISH LEGEND & ELEVATIONS
5	WALL-MOUNTED COMPUTER STATION. SEE SPECIFICATIONS
6	MILLWORK: COAT ROAD AND SHELF. SEE ELEVATION
7	NEW STAINLESS STEEL TABLE AND WALL MOUNTED SHELVING. REFER TO EQUIPMENT PLANS FOR INFORMATION
8	EMERGENCY EYEWASH STATION. SEE PLUMBING DRAWINGS
9	LOCATION OF EXISTING CHASE. CONTRACTOR TO REDUCE SIZE OF CHASE IF POSSIBLE. EXTEND FINISHES/MILLWORK AS REQUIRED.
10	REMOVE EXISTING TRANSFER GRILLE ABOVE DOOR AND INFILL WALL WITH EXISTING CONSTUCTION. PREP EXISTING WALLS FOR NEW FINISHES. SEE FINISH SCHEDULE.
11	EXISTING CONDUIT: RELOCATE/MODIFY AS REQUIRED FOR NEW OPENING. SEE PHOTOS FOR EXTENT OF REQUIRED WORK.
12	NEW HOLLOW METAL FRAMED OPENING. SIZE TO BE BE 3'-0"W X 7'-0"H. VIF LOCATION WITH EXISTING ELECTRICAL EQUIPMENT LOCATIONS. SEE DEMOLITION DRAWINGS.
13	EXISTING WALL MOUNTED EQUIPMENT. REFER TO EXISTING CONDITION PHOTOS ON SHEET GI401
14	EXISTING FRAME IS TO REMAIN AND IS TO BE PAINTED TO MATCH NEW



A LEVEL KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · JOSEPH LEONARD · 21734 · REGISTERED ARCHITECT
6/18/2021

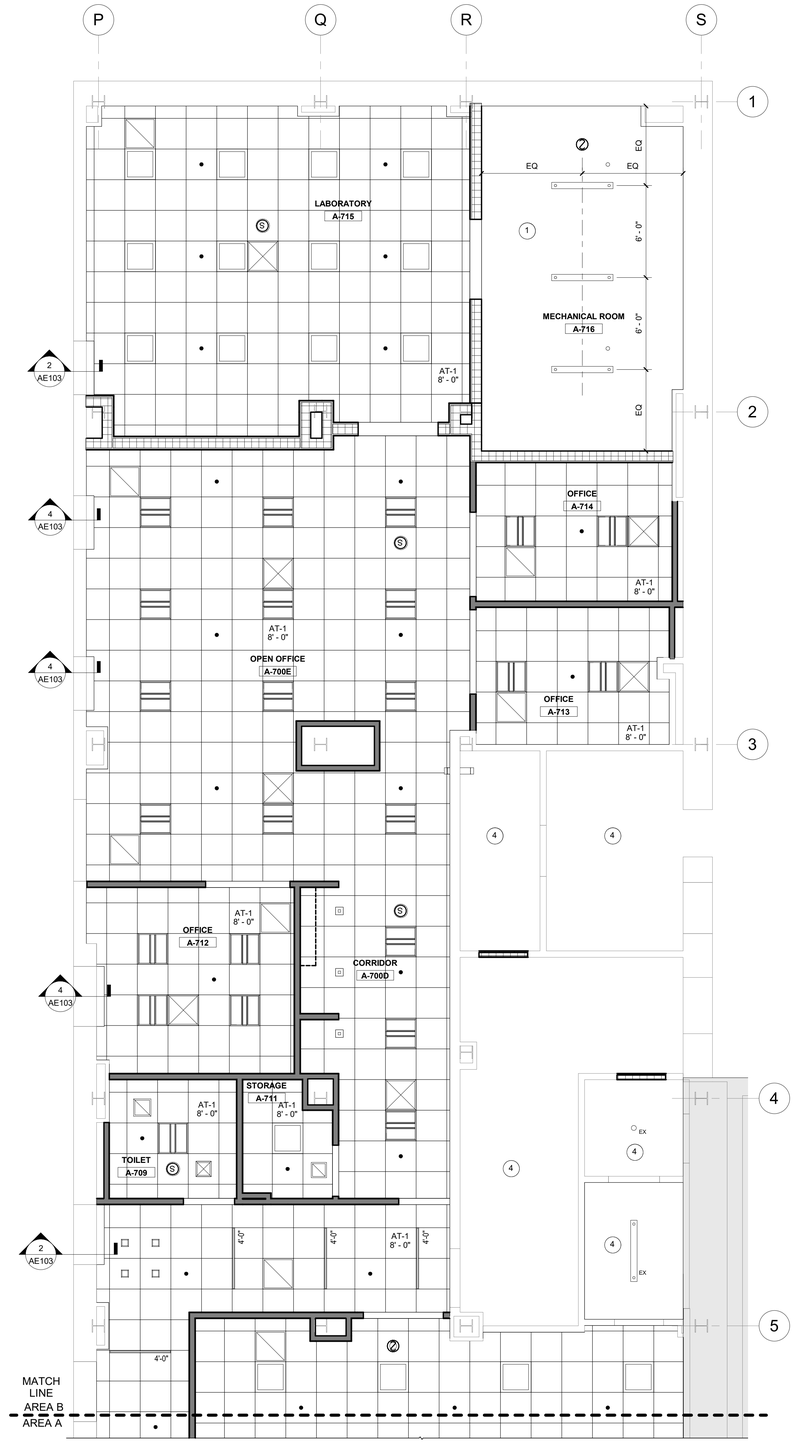
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: A LEVEL - FLOOR PLANS - NEW WORK	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
Approved:			Building Number: 1
	FULLY SPRINKLERED	Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Drawing Number: AE101
		Issue Date: 6/18/2021 · Checked: JLH · Drawn: ACELA	Page 11 of 43

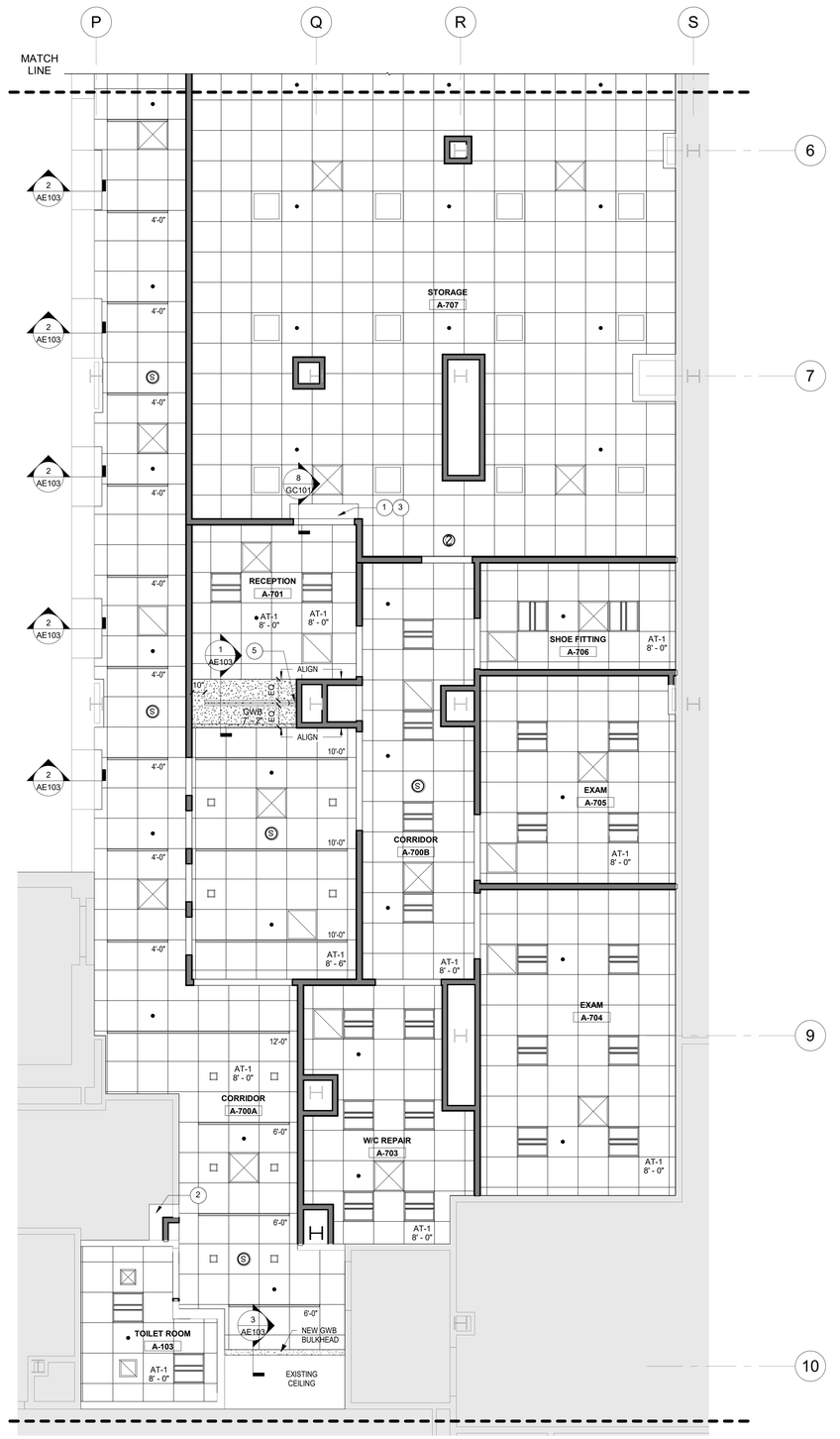
C:\Users\akowsky\Documents\561-19-160_Prosthetics Lab VA R2019 Dtl 11-06-20_akowsky.WSN7.rvt
7/12/2021 3:32:44 PM

VA FORM 08 - 6231



2 REFLECTED CEILING PLAN - NEW WORK - AREA B
1/4" = 1'-0"

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



1 REFLECTED CEILING PLAN - NEW WORK - AREA A
1/4" = 1'-0"

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

NEW RCP LEGEND

NOTE: COORDINATE WITH ENGINEERING DRAWINGS

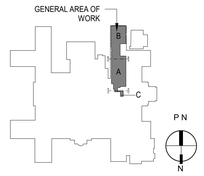
- 2x2 ACOUSTICAL CEILING TILE SYSTEM
- GYPSUM BOARD SOFFIT/CEILING
- 2x2 RECESSED LIGHT FIXTURE
- RECESSED LINEAR FIXTURE-LENGTH VARIES REFER TO PLANS
- RECESSED TAPELIGHT FIXTURE-LENGTH VARIES REFER TO PLANS
- 6"X6" RECESSED LIGHT FIXTURE
- 4" X 48" PENDANT LIGHT FIXTURE
- EXHAUST AIR GRILLE
- SUPPLY AIR GRILLE
- SPRINKLER HEAD
- (S) CEILING MOUNTED SPEAKER
- (S) CEILING MOUNTED SMOKE DETECTOR
- AREA OF WORK GENERALLY NOT INCLUDED IN CONTRACT.

RCP GENERAL NOTES

1. ALL CEILINGS ARE 8'-0" AFF UNLESS NOTED OTHERWISE. SEE CEILING PLAN LEGEND FOR CEILING TYPES.
2. WHERE THE LIGHTS AND ACCESSORIES ARE SHOWN TO BE RECESSED IN CEILING TILES, THEY SHALL BE CENTERED OR EDGE ALIGNED IN THE CEILING TILES, AS INDICATED GRAPHICALLY, UNLESS NOTED OTHERWISE.
3. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE DESCRIPTIONS AND ALL CEILING MOUNTED ELECTRICAL DEVICES.
4. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER DESCRIPTIONS AND ALL CEILING MOUNTED MECHANICAL DEVICES.
5. REFER TO TECHNOLOGY DRAWINGS FOR IDENTIFICATION AND DESCRIPTION OF CEILING MOUNTED TECHNOLOGY EQUIPMENT.
6. CEILING HEIGHT DIMENSIONS SHOWN ON REFLECTED CEILING PLAN AND DETAILS ARE FROM FINISH FLOOR TO FINISH CEILING.
7. UNLESS NOTED OTHERWISE, LIGHT FIXTURES SHALL BE LOCATED AS SHOWN ON THE REFLECTED CEILING PLANS.
8. WHERE LIGHT FIXTURES, DEVICES AND ACCESSORIES ARE SHOWN TO BE RECESSED IN CEILING TILES, THEY SHALL BE CENTERED IN THE CEILING TILES UNLESS NOTED OTHERWISE.
9. PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT. ACCESS PANELS LOCATED IN FINISHED AREAS SHALL BE PAINTED TO MATCH ADJACENT SURFACES. LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING WITH THE INSTALLATION.
10. ALL GYPSUM. BOARD CEILINGS AND SOFFITS ARE TO BE PAINTED.
11. NO MECHANICAL EQUIPMENT IN THE CEILING CAVITY REQUIRING NORMAL MAINTENANCE SHALL BE INSTALLED ABOVE A GYPSUM. BOARD CEILING. NOTIFY ARCHITECT IF ANY SUCH ITEMS ARE INDICATED ABOVE GYPSUM. BOARD CEILINGS.
12. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN HARD CEILINGS SHALL BE CENTERED IN CORRIDORS AND LOCATED A DISTANCE OF 1'-0" FROM WALL TO THE CENTER OF THE FIXTURE UNLESS NOTED OTHERWISE. LOCATE EXIT SIGNS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
13. SOFFITS AND BULKHEADS SHALL BE LATERALLY BRACED TO RESIST HORIZONTAL MOVEMENT.
14. CONTRACTOR SHALL COORDINATE ALL TYPES OF FIXTURES WITH ELECTRICAL DRAWINGS. FIXTURES SHOWN ON ARCHITECTURAL DRAWINGS ARE FOR REFERENCE ONLY AND ARE INDICATED FOR LOCATION ONLY.
15. PROVIDE AND INSTALL NEW LIGHT FIXTURES, SENSING AND OTHER DEVICES AS INDICATED: SEE ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
16. PROVIDE AND INSTALL HVAC DIFFUSERS AND RETURN GRILLS AS INDICATED: SEE MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
17. PROVIDE AND INSTALL SPRINKLER HEAD LOCATIONS AS INDICATED: SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL REQUIREMENTS.

REFLECTED CEILING PLAN KEY NOTES

NUMBER	DESCRIPTION
1	NO CEILING IN THIS AREA. OPEN TO STRUCTURE ABOVE
2	MODIFY EXISTING CEILING WITHIN ROOM AS REQUIRED FOR NEW WORK
3	NEW ACT MOLDING TO ATTACH TO FACE OF FIRE SHUTTER HOUSING- REFER TO DETAIL
4	EXISTING CEILING SYSTEM TO REMAIN
5	RECESSED LIGHT FIXTURE TO CONTONUE DOWN VERTICAL FACE OF COLUMN SURROUND



A LEVEL KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · LEONARD J. LINN · 21734 · REGISTERED ARCHITECT
6/18/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

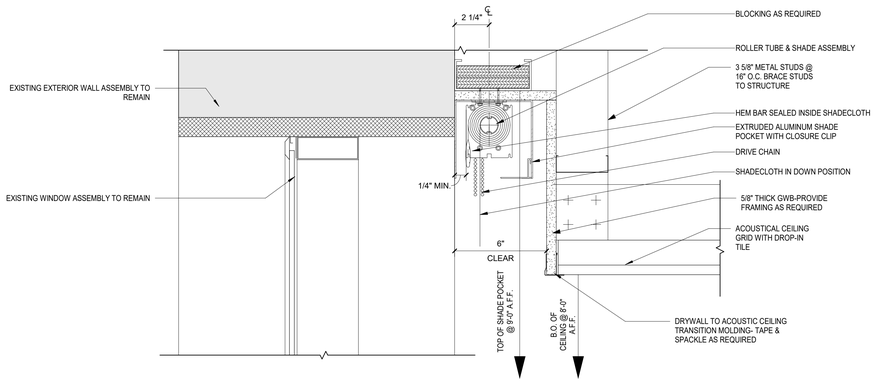
Drawing Title: A LEVEL - REFLECTED CEILING PLANS - NEW WORK	Phase: FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: UPGRADE PROSTHETICS LAB		Project Number: 561-19-160
		Building Number: 1
Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS		Drawing Number: AE102
Issue Date: 6/18/2021	Checked: JLH	Drawn: ACELA

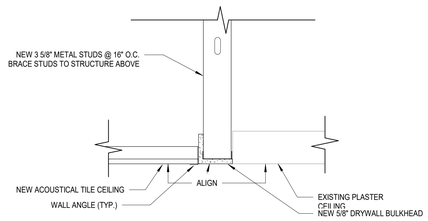
Page 12 of 43

C:\Users\ekenady\Documents\561-19-160_Prosthetics Lab VA EO219.CM 11-06-20_ekenady.rvt
7/12/2021 3:32:48 PM

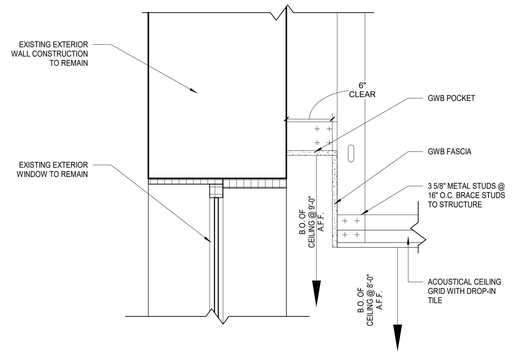
VA FORM 08 - 6231



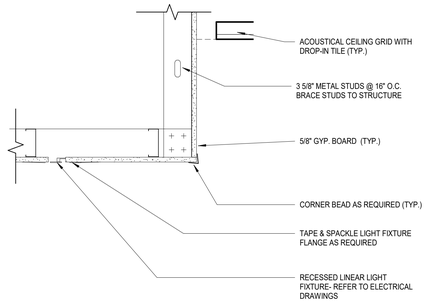
4 SECTION - WINDOW SHADE POCKET
3" = 1'-0"



3 TYPICAL CEILING TRANSITION
1 1/2" = 1'-0"



2 DETAIL - TYPICAL EXISTING WINDOW TRANSITION
1 1/2" = 1'-0"



1 SECTION - RECESSED LINEAR LIGHT
1 1/2" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY LEONARD HEIM 21734 REGISTERED ARCHITECT
6/18/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

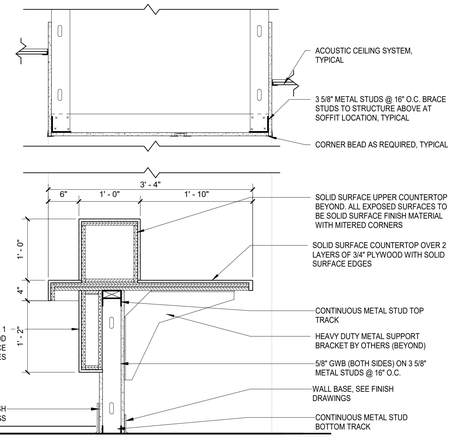
Drawing Title REFLECTED CEILING PLAN DETAILS	**Phase** FINAL BID DOCUMENTS	**Project Title** UPGRADE PROSTHETICS LAB	**Project Number** 561-19-160
			Building Number 1
Approved:	FULLY SPRINKLERED	**Location** VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	**Drawing Number** AE103
		Issue Date 6/18/2021 / **Checked** JLH / **Drawn** ACELA	Page 13 of 43

C:\Users\alexisaly\Documents\561-19-160_Prosthetics Lab VA RD19 CM 11-06-20_alexisaly.rvt
7/12/2021 3:33:53 PM

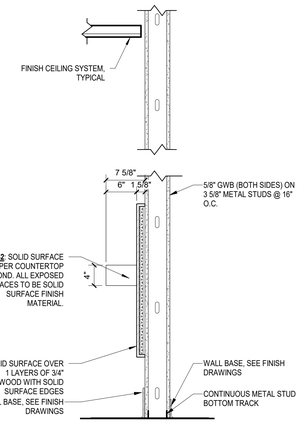
VA FORM 08 - 6231

GENERAL NOTE:

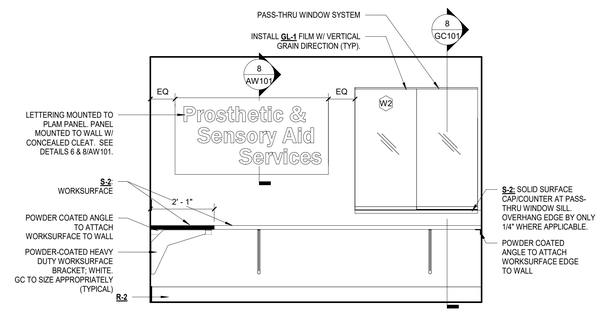
ALL WOOD TO BE FIRE RETARDANT



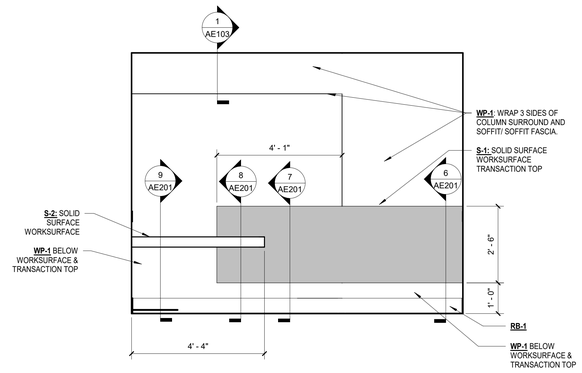
SECTION - RECEPTION WORKSURFACE APRON
8 1" = 1'-0"



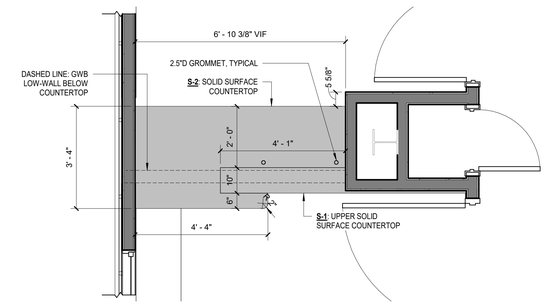
6 SECTION DETAIL - RECEPTION DESK ACCENT
1" = 1'-0"



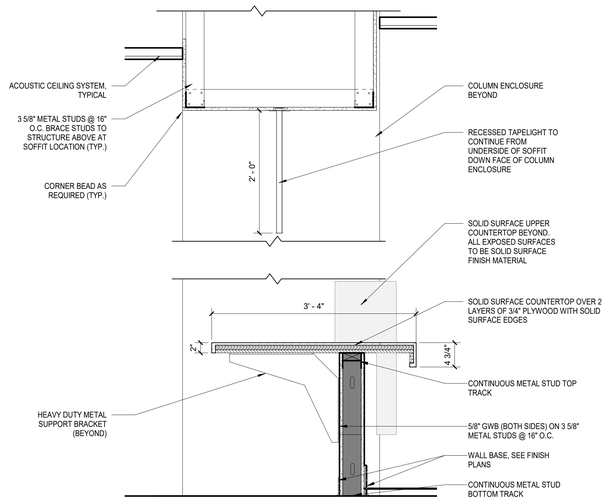
5 RECEPTION A-701 NORTH
1/2" = 1'-0"



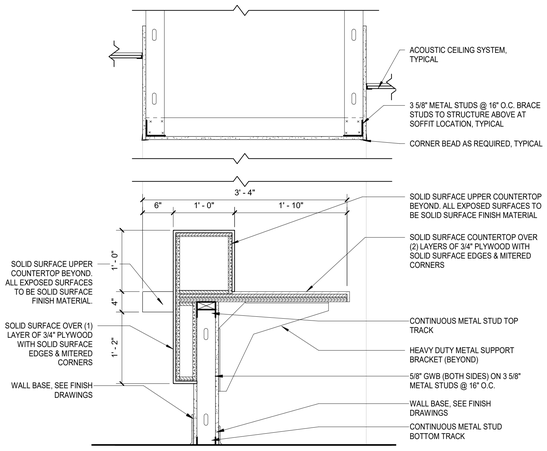
3 WAITING ROOM A-700 - NORTH
1/2" = 1'-0"



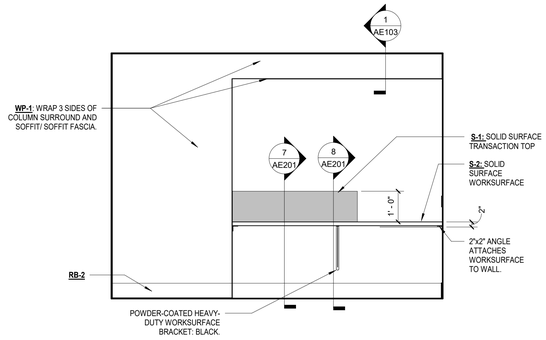
2 ENLARGED PLAN - RECEPTION DESK ABOVE COUNTERTOP
1/2" = 1'-0"



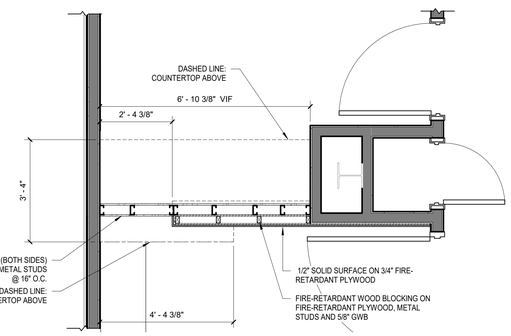
9 SECTION DETAIL - RECEPTION WORKSURFACE
1" = 1'-0"



7 SECTION - RECEPTION TRANSACTION COUNTER
1" = 1'-0"



4 RECEPTION A-701 SOUTH
1/2" = 1'-0"



1 ENLARGED PLAN - RECEPTION DESK BELOW COUNTERTOP
1/2" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — LEONARD J. PACI — 21734 — REGISTERED ARCHITECT
6/18/2021

Office of Construction and Facilities Management

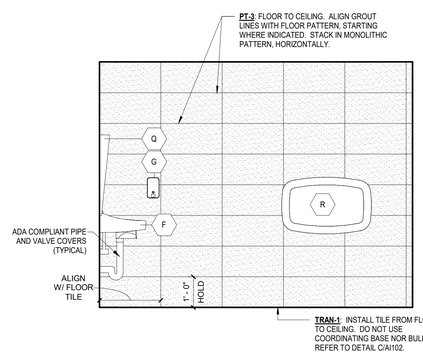
VA U.S. Department of Veterans Affairs

Drawing Title A LEVEL ENLARGED PLANS, ELEVATIONS & DETAILS	**Phase** FINAL BID DOCUMENTS	**Project Title** UPGRADE PROSTHETICS LAB	**Project Number** 561-19-160
Approved:	FULLY SPRINKLERED	**Location** VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	**Building Number** 1
		Issue Date 6/18/2021 / **Checked** JLH / **Drawn** ACELA	**Drawing Number** AE201

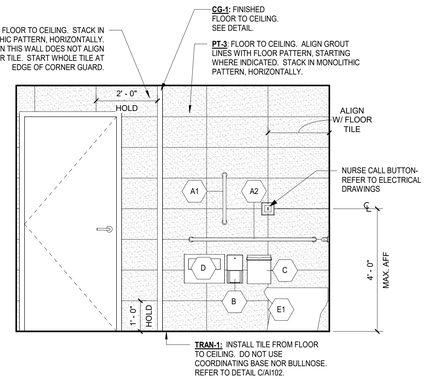
Page 14 of 43

VA FORM 08 - 6231

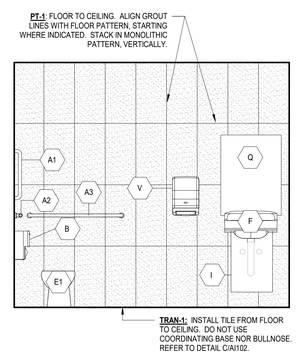
C:\Users\dakrusty\Documents\561-19-160_Prosthetics Lab VA NJ\19 DM 11-06-20_dakrusty.RVBSKY.rvt
7/12/2021 3:37:21 PM



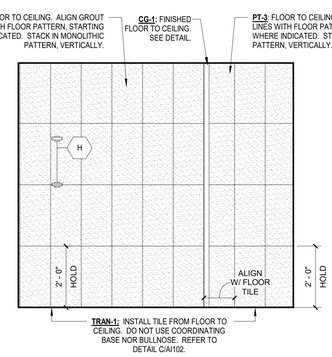
10 TOILET ROOM A-103 WEST
1/2" = 1'-0"



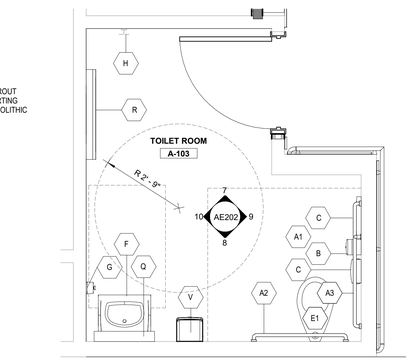
9 TOILET ROOM A-103 EAST
1/2" = 1'-0"



8 TOILET ROOM A-103 SOUTH
1/2" = 1'-0"

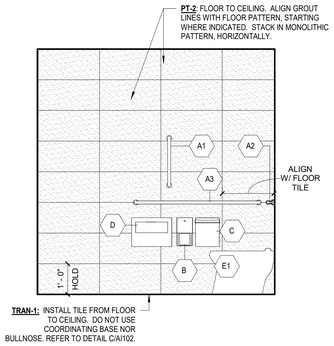


7 TOILET ROOM A-103 NORTH
1/2" = 1'-0"

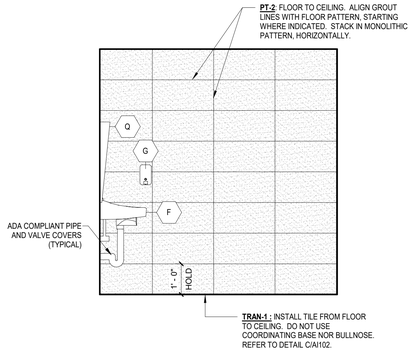


NOTE:
~~WE CAN CHECK WITH THEM, BUT I'M SURE THAT THEY WANT THE LINES TO RUN CONTINUOUS THROUGH THE~~
PATTERN WITH THE FLOOR TILE PATTERN.
** SEE SHEET GC501 FOR TOILET ROOM ACCESSORIES SCHEDULE

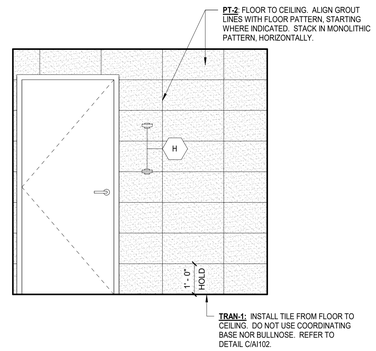
6 ENLARGED PLAN - TOILET ROOM A-103
1/2" = 1'-0"



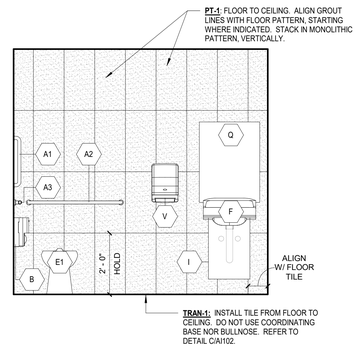
5 TOILET ROOM A-709 WEST
1/2" = 1'-0"



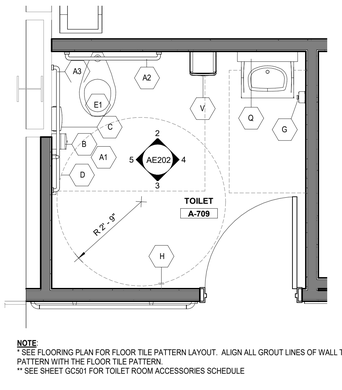
4 TOILET ROOM A-709 EAST
1/2" = 1'-0"



3 TOILET ROOM A-709 SOUTH
1/2" = 1'-0"



2 TOILET ROOM A-709 NORTH
1/2" = 1'-0"



NOTE:
* SEE FLOORING PLAN FOR FLOOR TILE PATTERN LAYOUT. ALIGN ALL GROUT LINES OF WALL TILE PATTERN WITH THE FLOOR TILE PATTERN.
** SEE SHEET GC501 FOR TOILET ROOM ACCESSORIES SCHEDULE

1 ENLARGED PLAN - TOILET ROOM A-709
1/2" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · JOHN LEONARD · 21734 · REGISTERED ARCHITECT
6/18/2021

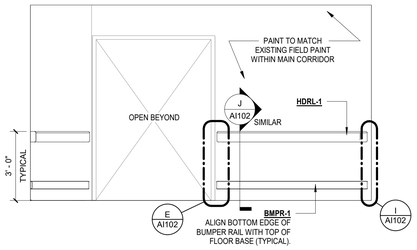
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

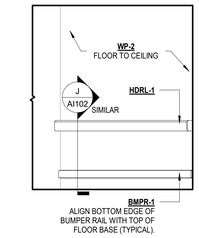
Drawing Title	A LEVEL ENLARGED PLANS, ELEVATIONS & DETAILS
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	UPGRADE PROSTHETICS LAB
Location	VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS
Issue Date	6/18/2021
Checked	JLH
Drawn	ACELA
Project Number	561-19-160
Building Number	1
Drawing Number	AE202

VA FORM 08 - 6231

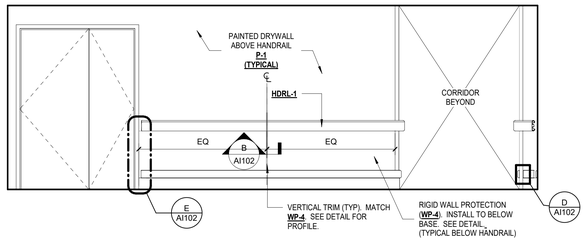
C:\Users\alexnaday\Documents\561-19-160_Prosthetics Lab VA R2019 CM 11-06-20_alexnaday.rvt
7/12/2021 3:37:24 PM



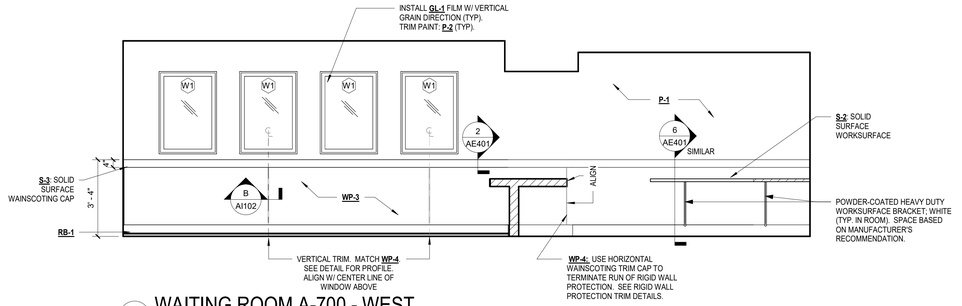
9 ELEVATION - MAIN CORRIDOR - EAST
3/8" = 1'-0"



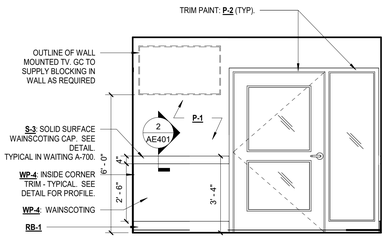
8 ELEVATION - MAIN CORRIDOR - NORTH
3/8" = 1'-0"



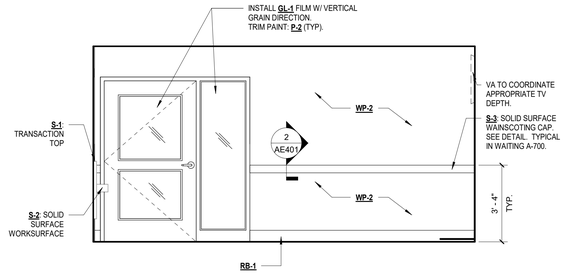
7 CORRIDOR A-700C - SOUTH
3/8" = 1'-0"



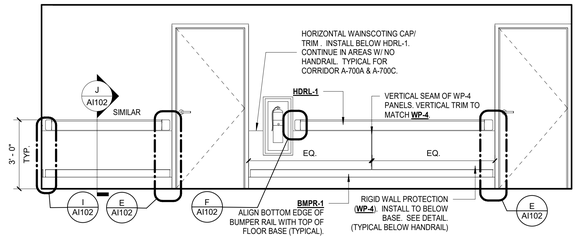
6 WAITING ROOM A-700 - WEST
3/8" = 1'-0"



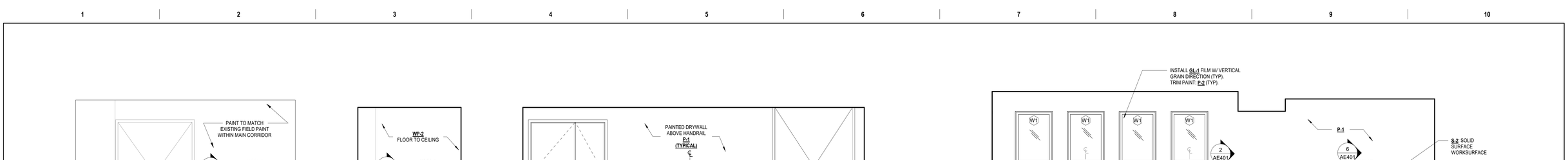
5 WAITING ROOM A-700 - SOUTH
3/8" = 1'-0"



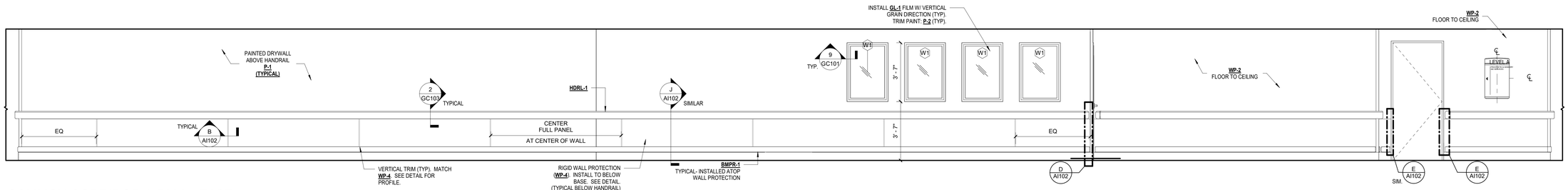
4 WAITING ROOM A-700 - EAST
3/8" = 1'-0"



3 CORRIDOR A-700C - NORTH
3/8" = 1'-0"



2 COMMON CORRIDOR A-700A - WEST
3/8" = 1'-0"



1 COMMON CORRIDOR A-700A - EAST
3/8" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY LEONARD J. HEIM 21734 REGISTERED ARCHITECT
6/18/2021

Office of Construction and Facilities Management

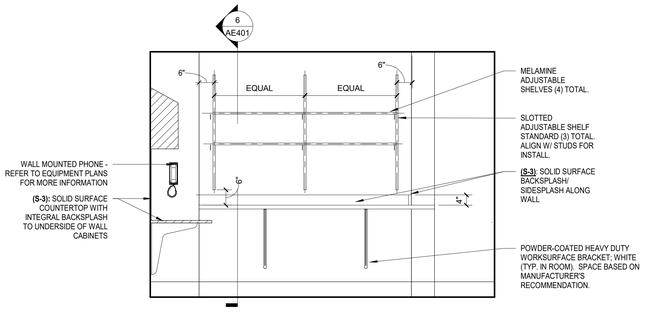
VA U.S. Department of Veterans Affairs

Drawing Title: INTERIOR ELEVATIONS	Phase: FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

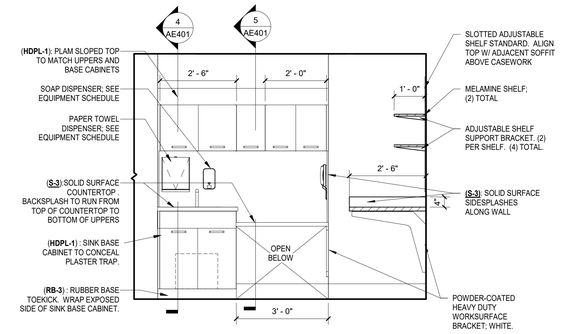
Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
	Building Number: 1
Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Drawing Number: AE203
Issue Date: 6/18/2021 / Checked: JLH / Drawn: ACELA	Page 16 of 43

C:\Users\alexisaly\Documents\561-19-160_Prosthetics Lab VA RD219 CM 11-06-20_alexisaly2BWD7.rvt
7/12/2021 3:37:28 PM

VA FORM 08 - 6231

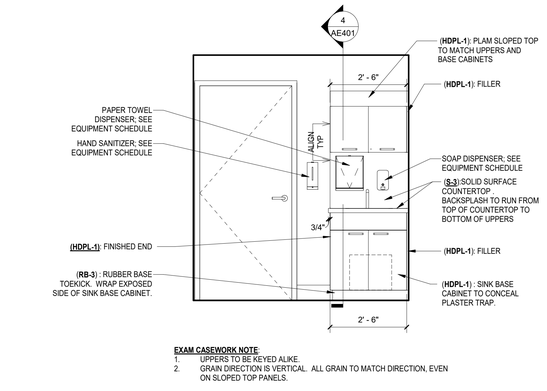


8 W/C REPAIR A-703 - SOUTH
1/2" = 1'-0"



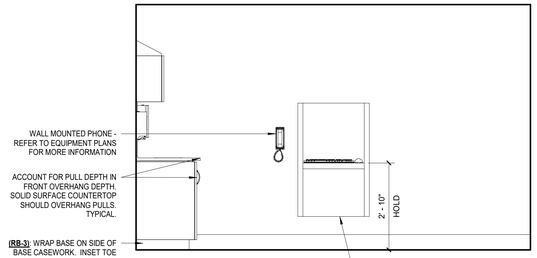
EXAM CASEWORK NOTE:
1. UPPERS TO BE KEYED ALIKE.
2. GRAIN DIRECTION IS VERTICAL. ALL GRAIN TO MATCH DIRECTION, EVEN ON SLOPED TOP PANELS.

7 W/C REPAIR A-703 EAST
1/2" = 1'-0"

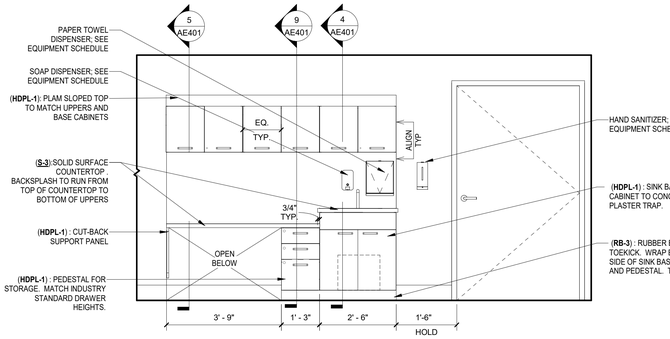


EXAM CASEWORK NOTE:
1. UPPERS TO BE KEYED ALIKE.
2. GRAIN DIRECTION IS VERTICAL. ALL GRAIN TO MATCH DIRECTION, EVEN ON SLOPED TOP PANELS.

6 SHOE FITTING - WEST
1/2" = 1'-0"

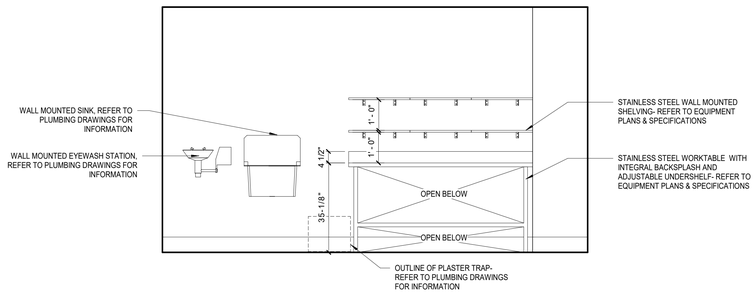


5 SHOE FITTING A-706 NORTH
1/2" = 1'-0"

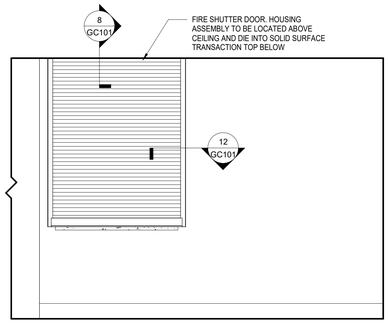


EXAM CASEWORK NOTE:
1. A-705 HAS MIRRORED LAYOUT.
2. ALL DRAWERS AND DOORS IN UPPERS AND BASE CABINETS TO BE KEYED ALIKE PER ROOM.
3. GRAIN DIRECTION IS VERTICAL. ALL GRAIN TO MATCH DIRECTION, EVEN ON SLOPED TOP PANELS.

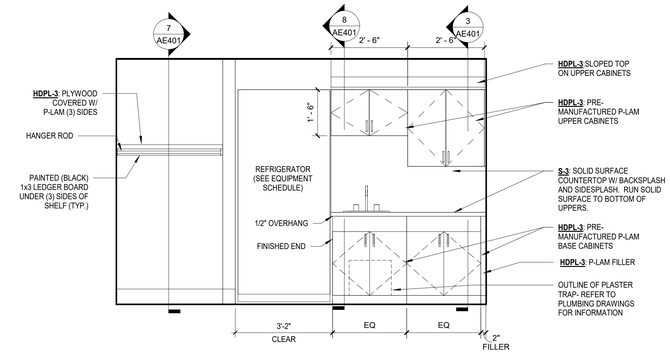
4 EXAM CASEWORK A-704 & A-705 - WEST
1/2" = 1'-0"



3 LABORATORY A-715 - SOUTH
1/2" = 1'-0"



2 STORAGE A-707 - SOUTH
1/2" = 1'-0"



1 CORRIDOR A-709 - WEST
1/2" = 1'-0"

Revisions:	**Date:**

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · JOSEPH LEONARD HEALY · 21734 · REGISTERED ARCHITECT
6/18/2021

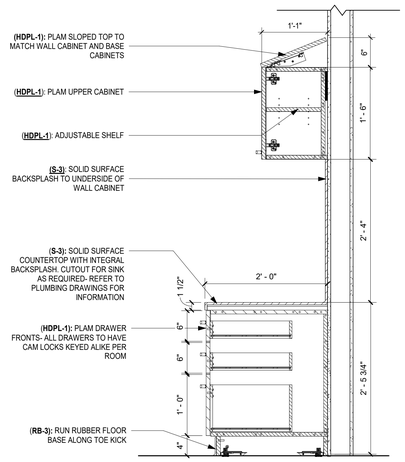
Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

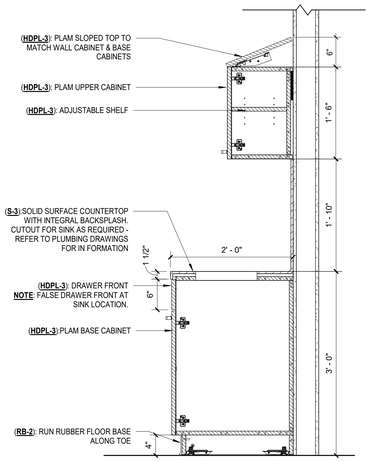
Drawing Title INTERIOR ELEVATIONS	**Phase** FINAL BID DOCUMENTS	**Project Title** UPGRADE PROSTHETICS LAB	**Project Number** 561-19-160
			Building Number 1
Approved:	FULLY SPRINKLERED	**Location** VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	**Drawing Number** AE204
		Issue Date 6/18/2021 · **Checked** JLH · **Drawn** ACELA	Page 17 of 43

C:\Users\akanuka\Documents\561-19-160_Prosthetics Lab VA R2019 Cbl 11-06-20_akanuka.rvt
7/12/2021 3:37:00 PM

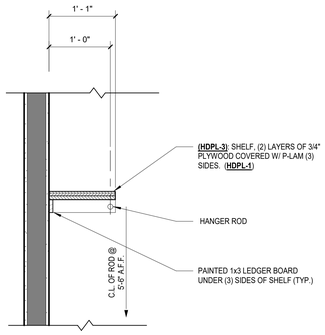
VA FORM 08 - 6231



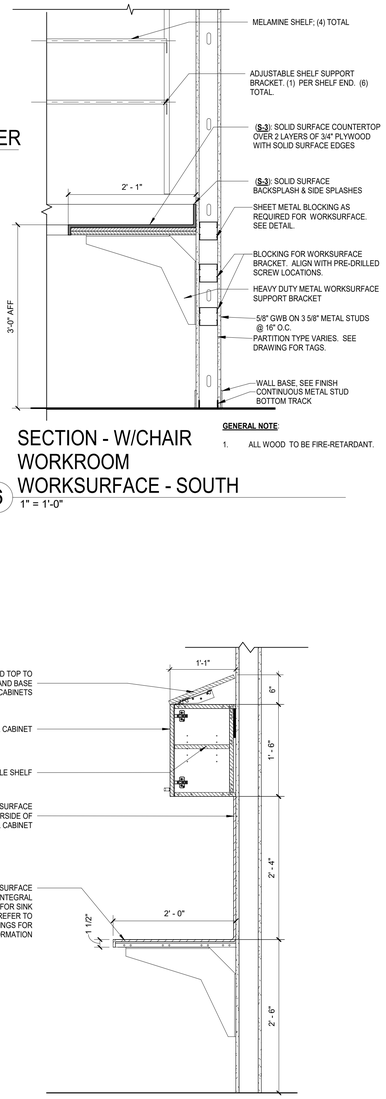
9 SECTION - EXAM ROOM BASE CABINET - 3 DRAWER
1" = 1'-0"



8 SECTION - FULL HEIGHT BASE CABINET WITH SINK
1" = 1'-0"



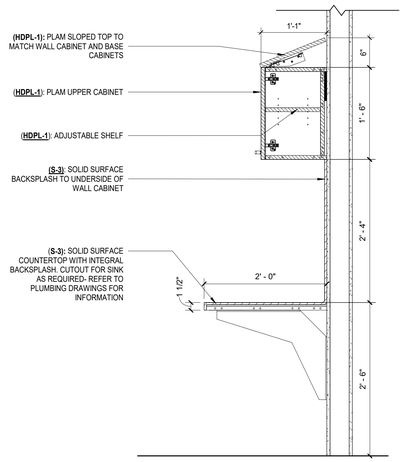
7 CLOSET SHELF-ROD SECTION
1" = 1'-0"



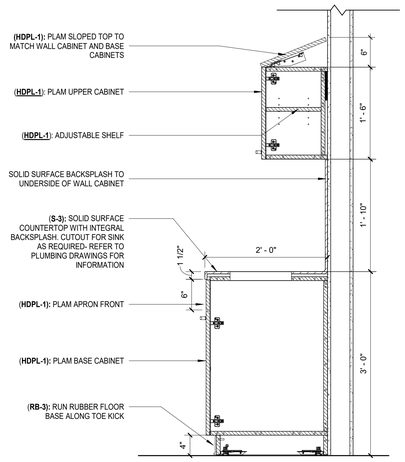
GENERAL NOTE:

1. ALL WOOD TO BE FIRE-RETARDANT.

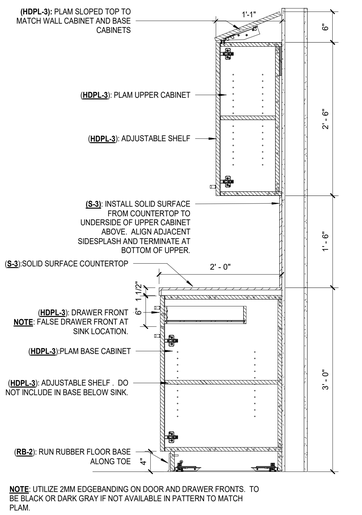
6 SECTION - W/CHAIR WORKROOM WORKSURFACE - SOUTH
1" = 1'-0"



5 SECTION - EXAM ROOM WORK SURFACE
1" = 1'-0"

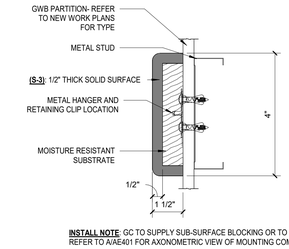


4 SECTION - EXAM ROOM BASE & WALL CABINET
1" = 1'-0"



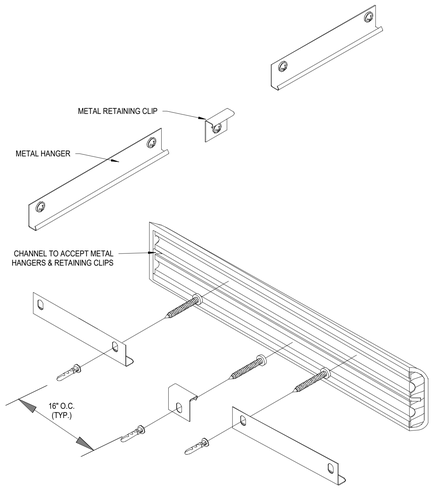
NOTE: UTILIZE 2MM EDGEBANDING ON DOOR AND DRAWER FRONTS. TO BE BLACK OR DARK GRAY IF NOT AVAILABLE IN PATTERN TO MATCH PLAM.

3 SECTION - FULL-HEIGHT BASE CABINET
1" = 1'-0"



INSTALL NOTE: GC TO SUPPLY SUB-SURFACE BLOCKING OR TO STUD MOUNT. REFER TO A/AE401 FOR AXONOMETRIC VIEW OF MOUNTING COMPONENTS

2 DETAIL - SOLID SURFACE CHAIR RAIL
NTS



INSTALL NOTE: MITER JOINTS AT INSIDE CORNERS WHERE BUMPER RAILS MEET. HANGER BRACKET TO BE MAXIMUM 36" W/ (2) HANGER BRACKETS AND (1) RETAINING CLIP PER RUN.

1 MANUFACTURER'S MOUNTING DETAIL OF SOLID SURFACE CHAIR RAIL RETAINING CLIP
NTS

GENERAL NOTES - MILLWORK & CASEWORK

1. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN
2. ALL INTERIOR FINISHES SHALL HAVE CLASS "A" FIRE RATING
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK, FIXTURES AND MATERIALS AS NECESSARY TO THE PROJECT AS PER THESE DRAWINGS AND IN STRICT ACCORDANCE WITH ALL FEDERAL STATE AND LOCAL CODES, REGULATIONS, AND ACCORDANCE WITH ALL FEDERAL STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION
4. MATERIALS, DIMENSIONS AND ALL OTHER CONDITIONS NOT OTHERWISE INDICATED IN THESE CONSTRUCTION DOCUMENTS SHALL BE INTERPRETED AS HAVING THE SAME MEANING AS THOSE MOST SIMILARLY DETAILED AND MORE FULLY DEFINED ELSEWHERE WITHIN THESE DOCUMENTS
5. IF ANY PORTION OF THESE DOCUMENTS IS FOUND TO BE IN CONFLICT WITH CODES, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND/OR STRUCTURAL DRAWINGS, THE DESIGNER SHALL BE NOTIFIED OF THESE CONFLICTS IN WRITING BY THE CONTRACTOR
6. FLOOR TOLERANCE: IN LAYING OUT AND DETAILING THE WORK TO BE COMPLETED, CONSIDERATION SHALL BE GIVEN TO VARIATIONS IN THE FLOOR LEVELNESS RESULTING FROM CONSTRUCTION QUALITY, EXISTING CONDITIONS AND LIVE AND DEAD LOADS IMPOSED ON THE STRUCTURE. FIELD VERIFICATION SHALL BE MADE OF CONDITIONS TO VERIFY CONSTRUCTION TOLERANCES. ALIGNMENT OF DOOR HEADS AND OTHER HORIZONTAL ELEMENTS SHALL BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE. LEVEL FLOORS AS REQUIRED USING APPROVED LEVELING COMPOUND
7. ALL FASTENERS AND ATTACHMENTS SHALL BE FULLY CONCEALED FROM VIEW, UNO
8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND LOCATING ALL NECESSARY REINFORCING TO ACCOMMODATE INTERIOR FINISHES, FIXTURES AND EQUIPMENT, AS DESCRIBED IN THESE DOCUMENTS
9. DIMENSIONS NOTED AS "CLEAR" OR "CRITICAL" SHALL BE MEASURED FROM FINISHED FACE TO FINISHED FACE
10. SHOP DRAWINGS, AS REQUIRED, SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION
11. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A DESCRIPTION OF ALL MATERIALS ALONG WITH SAMPLES PROPOSED FOR USE WITHIN THE CONSTRUCTION DOCUMENTS
12. ANY SUBSTITUTIONS PROPOSED BY CONTRACTOR SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL PRIOR TO IMPLEMENTATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESEARCH AND QUALIFY THAT PERFORMANCE AND CONSTRUCTION SPECIFICATIONS MEET THOSE OF THE ORIGINALLY SPECIFIED ITEM PRIOR TO SUBMISSION FOR APPROVAL
13. ALL FINISH CARPENTRY AND MILLWORK SHALL BE IN ACCORDANCE WITH ARCHITECTURAL WOODWORKS INSTITUTE (AWI) STANDARDS FOR SELECTION OF MATERIALS, HARDWARE, FABRICATION, WORKMANSHIP AND FINISHING
14. THE CONTRACTOR, AT THE COMPLETION OF THIS PROJECT, SHALL CLEAN THE ENTIRE SPACE AND LEAVE READY FOR USE, AS APPROVED BY OWNER/CLIENT
15. "TYPICAL" MEANS THE REFERENCED DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED
16. WHERE ELECTRICAL, MECHANICAL AND/OR OTHER WALL MOUNTED DEVICES OCCUR AT THE SAME LOCATION BUT AT DIFFERENT HEIGHTS, THEY SHALL BE CENTERED ABOVE EACH OTHER. ALL INACTIVE DEVICES LOCATED ON WALLS TO BE GANGED TOGETHER WHERE POSSIBLE. FOR ACTIVE LOCATIONS, COORDINATE WITH DRAWINGS LOCATED ON COVER SHEET OR DESIGNER
17. PROVIDE BLOCKING IN WALL FOR ALL FURNITURE, MILLWORK, FIXTURES AND EQUIPMENT. ALL WOOD BLOCKING IS TO BE FIRE-RETARDANT-TREATED WOOD.
18. PROVIDE WHITE FINISH FOR OUTLETS, SWITCHES & COVER PLATES UNO
19. ALL AREAS NOT IN SCOPE THAT MAY BE AFFECTED DUE TO CONSTRUCTION SHALL BE TREATED AND FINISHED TO MATCH EXISTING - ARCHITECT TO BE NOTIFIED
20. PROVIDE SHOP DRAWINGS FOR ALL MILLWORK BASED ON FIELD DIMENSIONS
21. PROVIDE SAMPLES OF MATERIALS, FINISHES & HARDWARE FOR MILLWORK
22. PROVIDE GROMMETS FOR ALL COUNTERTOP EQUIPMENT WHERE OUTLETS ARE NOT SHOWN ABOVE COUNTER HEIGHT. FIELD VERIFY LOCATIONS
23. ALL SHELVING INSIDE CUSTOM PLASTIC LAMINATE CABINETS SHALL HAVE A MELAMINE FINISH WITH PLASTIC LAMINATE EDGE AND FLUSH MOUNTED ADJUSTABLE STANDARDS AND BRACKETS
24. COORDINATE UNDER CABINET AND COUNTER LIGHTING WITH ELECTRICAL CONTRACTOR TO CONCEAL WIRING
25. CONTRACTOR SHALL BE RESPONSIBLE FOR REINFORCING METAL STUDS WITH WOOD STUDS FLOOR TO CEILING VERTICALLY AT ALL WALL HUNG OVERHEAD CABINETS AND SHELVING
26. COORDINATE ELECTRICAL AND TELEPHONE OUTLET LOCATIONS ON FIELD AND PROVIDE GROMMETS. PROVIDE REMOVABLE ACCESS PANELS IN CASEWORK & MILLWORK, AS NECESSARY
27. PROVIDE HEAVY DUTY FULL EXTENSION DRAWER SLIDES AT ALL DRAWERS
28. AT AREAS WHERE BRACKETS ARE USED - REFER TO MANUFACTURER'S REQUIREMENTS FOR SPACING & BLOCKING
29. CONTRACTOR TO PROVIDE COUNTERTOP PROFILE FOR REVIEW
30. BACK AND SIDE SPLASHES TO BE NON-INTEGRAL TO COUNTERTOPS, UNLESS NOTED OTHERWISE
31. SIDESPLASHES TO BE AT ALL ADJACENT WALL LOCATIONS UNO, PROFILE TO MATCH BACKSPLASH
32. GC TO COORDINATE LOCATION OF SINK WITH PLUMBING SHOP DRAWINGS
33. ALL EXPOSED EDGES/SURFACES TO BE FINISHED
34. CONTRACTOR TO COORDINATE COUNTERTOP WITH APPLIANCES, EQUIPMENT & THEIR REQUIRED CLEARANCES PER MANUFACTURER
35. GC TO VERIFY ALL FIELD DIMENSIONS PRIOR TO FABRICATION & INSTALLATION
36. GC TO CONFIRM ALL DRAWER AND CABINET DOORS, AS WELL AS APPLIANCES, FULLY OPEN & OPERATE WITHOUT CONFLICT TAKING INTO CONSIDERATION HARDWARE PULLS /HANDLES, PRIOR TO ORDERING OR INSTALLING ANY CASEWORK
37. ALL SINK BASE CABINETS TO BE A MINIMUM OF 30" WIDE (CLEAR)
38. ALL SINGLE CABINETS TO BE NO MORE THAN 18" WIDE. ALL DOUBLE DOOR CABINETS TO BE NO MORE THAN 36" WIDE
39. GC TO VERIFY 34" MAXIMUM ABOVE FLOOR FINISH TO RIM OF SINK IN ALL ACCESSIBLE KITCHENS & BATHROOMS
40. GC TO VERIFY ALL QUANTITIES PRIOR TO FABRICATION & INSTALLATION
41. ALL FILLERS, VERTICAL SUPPORTS, HORIZONTAL PANELS, TOEKICKS & APRONS, AS APPLICABLE, FINISHED TO MATCH CABINETRY
42. FINISHED END PANELS ARE TO BE PROVIDED AT ALL END CABINETS THAT DO NOT TERMINATE AT FRAMED CONSTRUCTION
43. PROVIDE HARDWARE FOR ALL CASEWORK; REFER TO ID DRAWINGS FOR INFORMATION. CONFIRM HARDWARE WITH OWNER ACELA TO ORDERING
44. CONTINUE FINISHES UNDER & AROUND REMOVABLE PANEL & APPLIANCES
45. ALL MILLWORK TO BE EXTERIOR GRADE PLYWOOD CONSTRUCTION AT WET LOCATIONS OR WHERE SINK IS LOCATED
46. PROVIDE MINIMUM OF 27"H CLEAR FOR KNEE SPACE AT ACCESSIBLE WORKSPACE
47. DRAWER HARDWARE TO BE APPROVED BY ACELA
48. PROVIDE NICKEL L-SHAPED METAL SHELF PIN FOR ALL INTERIOR SHELVES
49. GROMMETS TO BE 2-PIECE SWIVEL, 2.5" DIAMETER. SEE FINISH SCHEDULE FOR BASIS OF DESIGN
50. PROVIDE 3/4" PLYWOOD SUBSTRATE AT ALL PLASTIC LAMINATE APPLICATIONS
51. AT VERTICAL SURFACES: SEE DRAWINGS FOR GRAIN DIRECTION. ALL GRAIN DIRECTION SHOULD MATCH, INCLUDING TOE KICKS
52. WHERE SINKS ARE LOCATED PROVIDE 100% MILDEW RESISTANT SILICONE BEAD AT ALL COUNTERTOP JOINTS
53. ALL HINGES AND CLOSURE HARDWARE TO WORK PROPERLY WITH DRAWER GLIDES AND OPENING SYSTEMS. HARDWARE TYPES SHOULD NOT INHIBIT THE PROPER USE OF OTHER COORDINATING HARDWARE, NOR CAUSE FAILURE. I.E. - DO NOT USE SOFT-CLOSE HINGES WITH TOUCH LATCH OPENERS, ECT.
54. ALL HINGES TO BE MULTI-PURPOSE CONCEALED HINGES WITH SNAP-OFF REMOVAL OPTION.
55. ALL HINGES TO HAVE 120 DEGREE RANGE OF MOTION, UNLESS NOT APPLICABLE FOR APPLICATION. I.E. - BLIND CORNERS, ECT.
56. DRAWERS TO HAVE 5-FACE DRAWER CONSTRUCTION

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · LEONARD J. HAUCK · REGISTERED ARCHITECT · 21734
6/18/2021

Office of Construction and Facilities Management

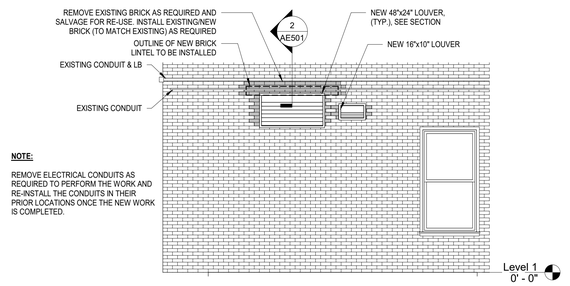
VA U.S. Department of Veterans Affairs

Drawing Title: CASEWORK DETAILS	Phase: FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

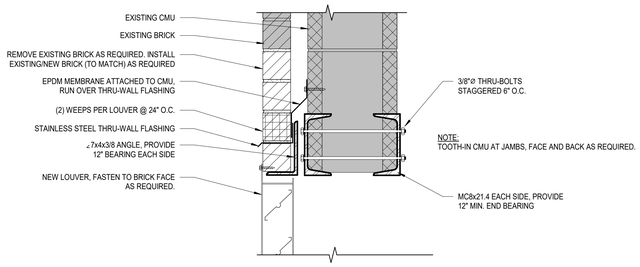
Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
	Building Number: 1
Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Drawing Number: AE401
Issue Date: 6/18/2021 · Checked: JLH · Drawn: ACELA	Page 18 of 43

C:\Users\akumar\Desktop\561-19-160_Prosthetics Lab VA ROOM DA 11-06-20_akumarAVWN01.rvt
7/17/2020 3:32:55 PM

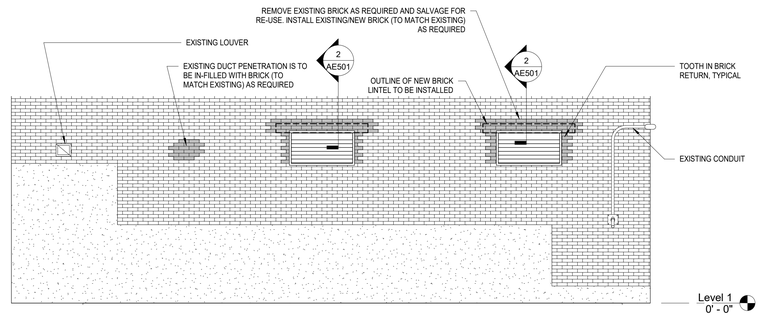
VA FORM 08 - 6231



3 WEST WALL PARTIAL ELEVATION
1/4" = 1'-0"



2 SECTION @ LOUVER LINTELS
1 1/2" = 1'-0"



1 NORTH WALL ELEVATION
1/4" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · JOHN LEONARD JR. · 21734 · REGISTERED ARCHITECT
6/18/2021

Office of Construction and Facilities Management

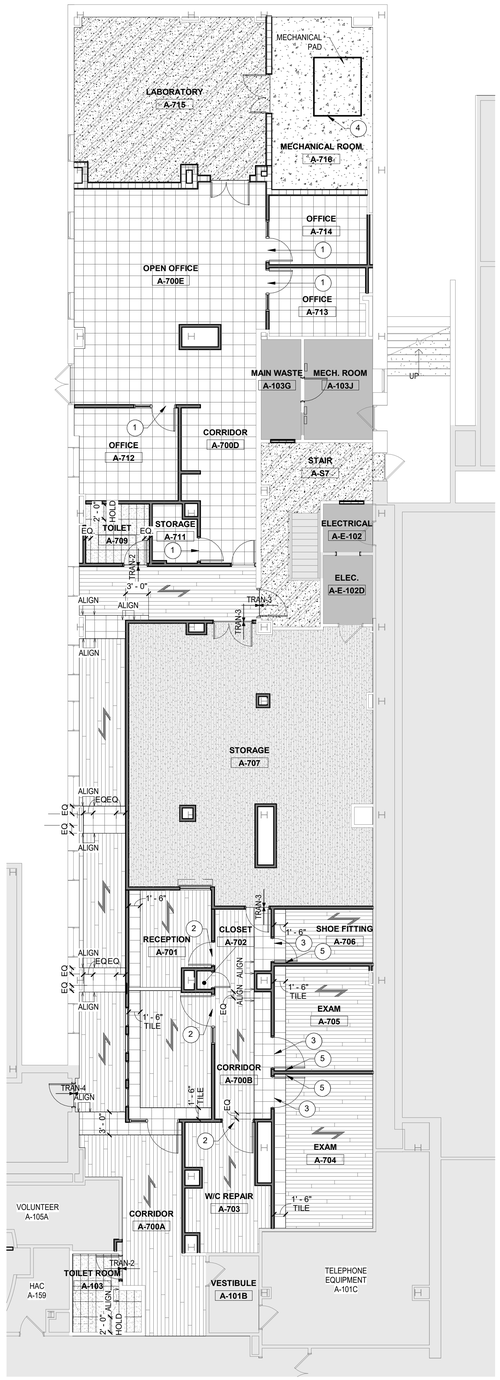
VA U.S. Department of Veterans Affairs

Drawing Title: EXTERIOR WALL LOUVER DETAILS	Phase: FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
	Building Number: 1
Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Drawing Number: AE501
Issue Date: 6/18/2021 · Checked: JLH · Drawn: ACELA	Page 19 of 43

C:\Users\akovsky\Documents\561-19-160_Prosthetics Lab VA NJ\19 CM 11-05-20_akovsky.rvt
7/1/2020 3:37:31 PM

VA FORM 08 - 6231



1 FLOOR FINISH PLAN

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

INTERIOR FINISH MATERIAL LEGEND

Spec. Section	Code	Material Type	Manufacturer	Style	Size	Color	Finish	Comments	Special Pricing Info
08.11.03 HOLLOW METAL DOORS AND FRAMES									
08.11.03	HMD-1	Hollow Metal Door	Steelcraft	See Drawings	See Drawings	P-2	Refer to P-2 for paint finish.	See specifications.	GC to source locally.
08.14.00 INTERIOR WOOD DOORS									
08.14.00	WD-1	Wood Door (Prefinished)	Acrovyn	Flush Door	See Drawings	Smokey Elm	Suede Texture	See specifcaions.	Rory Davis; 610 825-0320
08.80.00 GLAZING									
08.80.00	GL-1	Glass Film	SOLYX	Jute SX-5083	59"W roll	N/A	N/A	Refer to door tags for install location on doors. Refer to AE203 for install locations on vision panels.	Decorative Films; 888-657-5224
08.80.00	RES-1	Resin	3Form	Chroma	1/4" Guage	Cauldron N41 + White Out	Vellum	Use in Reception A-701 signage. Refer to drawing AW101 for more information. GC to prepare for lead/fabrication time for this item.	Kelly Greenwalt; 610-823-4635
09.30.13 CERAMIC/PORCELAIN TILING									
09.30.13	PT-1	Porcelain Tile	Daltile	Articulo	12"x24"	Feature Beige AR07	Matte	Grout color: Laticrete Natural Grey 24. Refer to specifications for grout type. Use with TRAN-2. See A1101 for location.	Tile: Susan Metka; 484-576-9387. Grout: GC source locally.
09.30.13	PT-2	Porcelain Tile	Trinity Tile	Cadence	12"x24"	Morning Mist	Standard	Grout color: Laticrete Natural Grey 24. Refer to specifications for grout type. Use with TRAN-2. See AE202 for location.	Tile: Doug Fulmer; 717-945-4010. Grout: GC source locally.
09.30.13	TRAN-1	Wall Tile to Floor Tile Transition	Schluter	Dilex-AHK	GC to determine transition height thickness.	Brushed Chrome Anodized Aluminum	Standard to Selected Color	GC to determine sizing for proper transition between products. See AI101 for location.	GC to source locally. Refer to detail C/AI102
09.30.13	TRAN-2	Floor Tile to LVT Flooring Transition	Schluter	RENO-U	GC to determine transition height thickness.	Satin Anodized	Standard to Selected Color	GC to determine sizing for proper transition between products. Ensure ADA compliant transition. See AI101 for location.	GC to source locally. Refer to detail B/AI101
09.51.00 ACOUSTICAL CEILINGS									
09.51.00	AT-1	Acoustical Ceiling Tile	Armstrong	Ultima Health Zone 1935	24"x24"	White	N/A	Use with 15/16 white ceiling grid.	GC to source locally.
09.65.13 RESILIENT BASE AND ACCESSORIES									
09.65.13	RB-1	Rubber Base	Tarkett	Profiles: Reveal	6"H	283 Toast	N/A	See Finish Schedule for location.	Doug Fulmer; 717-945-4010
09.65.13	RB-2	Rubber Base	Tarkett	Baseworks w/ Toe (Rubber)	6"H	283 Toast	N/A	See Finish Schedule for location.	Doug Fulmer; 717-945-4010
09.65.13	RB-3	Rubber Base	Tarkett	Baseworks w/ Toe (Rubber)	4"H	283 Toast	N/A	Use only as toe kick on front and side of base cabinets. See Interior Elevations AE204 for location.	Doug Fulmer; 717-945-4010
09.65.19 RESILIENT TILE FLOORING									
09.65.19	LVT-1	Luxury Vinyl Tile (Plank)	Mannington	Spacia Wood	7.25"x48"	Sun Bleached Oak SS5W2531	Quantum Guard (Standard)	See AI101 for location. Refer to drawing for direction and pattern.	Paden Faulkner; 267-424-9494
09.65.19	LVT-2	Luxury Vinyl Tile (Square)	Mannington	Spacia Stone	18"x18"	Jura Grey AROSJA34	Quantum Guard (Standard)	See AI101 for location. Refer to drawing for direction and pattern.	Paden Faulkner; 267-424-9494
09.65.19	RT-1	Rubber Tile	Ecore	ECOsurfaces	12"x12"	Mr. Slate 601	N/A	See AI101 for location. Refer to drawing for direction and pattern.	Doug Fulmer; 717-945-4010
09.65.19	TRAN-3	Rubber Tile to LVT Transition	Schluter	RENO-U	GC to determine transition height thickness.	Stainless Steel	N/A	GC to determine sizing for proper transition between products. Ensure ADA compliant transition. See AI101 for location.	GC to source locally. Refer to detail B/AI101
09.65.19	TRAN-4	LVT to Sealed Concrete/Epoxy Transition	Schluter	Schine	GC to determine transition height thickness.	Stainless Steel	N/A	GC to determine sizing for proper transition between products. See AI101 for location.	
09.65.19	WSF-1	Welded Seam Vinyl Sheet Safety Flooring	Gerflor	Tarasafe Ultra	6'-6"x65'-6" roll	Pebble 8704	N/A	GC to minimize seaming as much as possible. Use coordinating welded seam from manufacturer (color match). Where using integral cove, use finishing cap. See specification for information.	Donald Seifert; 610-888-9551
09.91.00 PAINTING									
09.91.00	C-1	Sealed Concrete	See Specification	See Specification	N/A	Clear	N/A	GC to source sealant based on written specifications. See AI101 for location.	GC to source locally.
09.91.00	P-1	Wall Paint	Sherwin Williams	N/A	N/A	Loggia SW7506	Eggshell	Field color. Use on all walls unless otherwise noted.	GC to source locally.
09.91.00	P-2	Wall Paint	Sherwin Williams	N/A	N/A	Smokehouse SW 7040	Semi-Gloss	Door and vision panel trim color. Metal door color.	GC to source locally.
09.91.00	P-3	Wall Paint	Sherwin Williams	N/A	N/A	Storm Cloud SW6249	Eggshell	Accent paint. See AI102 for location tags.	GC to source locally.
09.91.00	P-4	Wall Paint	Sherwin Williams	N/A	N/A	Albaster SW 7008	Eggshell	Accent paint. See AI102 for location tags. Use on all drywall soffits in ceiling.	GC to source locally.
09.91.00	P-5	Wall Paint	Sherwin Williams	N/A	N/A	Ryegrass SW6423	Eggshell	Accent paint. See AI102 for location tags.	GC to source locally.
09.91.00	P-6	Floor Paint	Sherwin Williams	N/A	N/A	See Specifications	GC to determine based on application, standard requirements and industry standard. See specifications.	Utilize on floor in mechanical room indicating safety zone surrounding mechanical unit in accordance with applicable codes. Yellow color to be in accordance with ANSI Z535.1-2017: Safety Colors standard. GC to utilize proper paint type for application according to written specification.	GC to source locally.
10.26.00 WALL AND DOOR PROTECTION									
10.26.00	BMPR-1	Bumper Rail (Wall)	Acrovyn	SCR-40N	4"H	Chinchilla 194	Suede Texture	Utilize with coordinating end caps. See AE203 for install location, spacing, and height. See 1/GC501 for detail.	Rory Davis; 610 825-0320
10.26.00	CG-1	Corner Guard	Acrovyn	8PH (90 Degree Corner Guard - Flush)	2" Leg	Stainless Steel	Standard	Install from floor base to ceilin. See AE101 for locations. See AI102 for details.	Rory Davis; 610 825-0320
10.26.00	CG-2	Corner Guard	Acrovyn	CO-8 (90 Degree Corner Guard - Surface Mount)	2" Leg	Stainless Steel	Standard	Install from floor base to ceilin. See AE101 for locations. See AI102 for details.	
10.26.00	HDRL-1	Handrail	Koroguard	HSSR; Round Top w/ Radius Return	N/A	Natural (1) Maple Top; Satin Aluminum	N/A	Use Round Top Cap in Natural (1) with Satin Aluminum Rail. Button Caps to be Sain Chrome (BB). Stand-Offs to be Aluminum (SA22). See AE203 for install location, spacing and height. Note: Stand-offs for mounting must be ordered in a custom size for clearance. See detail for clearance to maintain. Account for longer lead time.	Melissa Peslak; 267-410-0704
10.26.00	WP-1	Rigid Wall Protection	Wolf Gordon; Rampart	Ennis	52"Wx27YD Bolt	Denim GOH31973805	Surcoat Stain (Standard)	Install at least 1" behind rubber floor base. See AI102 for location.	Jessica Kaklins; 215-219-4675
10.26.00	WP-2	Rigid Wall Protection	Wolf Gordon; Rampart	Ennis	52"Wx27YD Bolt	Shadow GOH31975859	Surcoat Stain (Standard)	Install at least 1" behind rubber floor base. See AI102 for location.	Jessica Kaklins; 215-219-4675
10.26.00	WP-3	FRP	Marlite	Standard FRP; Smooth	4'x8' Sheet	White; Smooth Texture	Smooth Texture	Install from floor to ceiling, and install at least 1" behind floor base. See AI102 for location.	Greg Leary; 330-243-7187
10.26.00	WP-4	Rigid Wall Protection	Acrovyn	Rigid Wall Protection Sheet	4'x8' Sheet	Driftwood 262	Suede Texture	See drawing A102 for location below S-3 wainscoting cap and HDRL-1. Use with coordinating vertical seams and inside corners from manufacturer.	Rory Davis; 610 825-0320
12.24.00 WINDOW SHADES									
12.24.00	WRS-1	Window Roller Shade	Mecho Shade Systems	EcoVeil Screen 0950 Series	1"x 1" Basketweave; 1% Openess Factor	0963 Grey	N/A	Use at (2) windows in Open Office A-700E and (1) window at Office A-712. No shades in Corridor A-700A or A-700B. No shade in Laboratory A-715.	Finn O'Brien; 610-325-2216
12.32.00 MANUFACTURED WOOD CASEWORK									
12.32.00	HDPL-1	Plastic Laminate (High Density)	Nevamar	Standard Laminate	N/A	Meditation Elm WE2700T	Matte Finish	Refer to Casework Elevations (AE-204) for locations.	GC to source locally.
12.32.00	HDPL-2	Plastic Laminate (High Density)	Pionite	Standard Laminate	N/A	Cavalcade South AT650SD	Matte Finish	Use in Reception A-701 signage. Refer to AW101 for location and details.	GC to source locally.
12.32.00	HDPL-3	Plastic Laminate (High Density)	Formica	Standard Laminate	N/A	Earthen Twill 8828-58	Matte Finish	Refer to Casework Elevations (AE-204) for locations.	GC to source locally.
12.36.00 COUNTERTOPS									
12.36.00	S-1	Solid Surface	Corian	N/A	See detail section for thickness.	Limestone Prima	Semi-Gloss	See AE20I, AE202, and AE203 for location and thickness. Use eased edge profile where applicable.	Maria DiPietro; 215-275-4199
12.36.00	S-2	Solid Surface	Corian	N/A	See detail section for thickness.	Ash Concrete	Semi-Gloss	See AE20I, AE202, and AE203 for location and thickness. Use eased edge profile where applicable.	Maria DiPietro; 215-275-4199
12.36.00	S-3	Solid Surface	Corian	N/A	See detail section for thickness.	Bisque	Semi-Gloss	See AE20I, AE202, and AE203 for location and thickness. Use eased edge profile where applicable.	Maria DiPietro; 215-275-4199
12.36.00	SS-1	Stainless Steel	N/A	N/A	N/A	N/A	N/A	GC to source manufacturer.	Purchased as furniture item.

GENERAL FLOORING INSTALL NOTE

1. REFER TO FINISH DRAWINGS, INTERIOR ELEVATIONS AND DETAILS FOR FINISH LOCATIONS.
2. REFER TO FLOORING PLAN FOR FLOORING INSTALL PATTERNS, PATTERN START LOCATIONS, AND FLOORING INSTALL DIRECTION.
3. TRANSITIONS TO OCCUR AT CENTERLINE OF DOORS & OPENINGS. DRAWING ASSIGNS TRANSITIONS THROUGH GRAPHIC REPRESENTATION.
4. REFER TO WALL FINISH PLAN AND INTERIOR ELEVATIONS FOR INSTALL HEIGHT OF WALL PROTECTION AND WALL PROTECTION TRIM INFORMATION.
5. REFER TO INTERIOR ELEVATIONS AND CASEWORK ELEVATIONS FOR SOLID SURFACE AND PLASTIC LAMINATE MATERIAL LOCATION ASSIGNMENT.
6. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPE ASSIGNMENT.

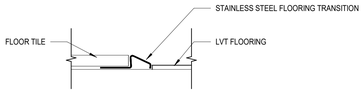
FLOOR FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	COMMENTS
A-101B	VESTIBULE	NIC	NIC	
A-103	TOILET ROOM	PT-1	NONE	Refer to Floor Finish Plan for floor tile pattern.
A-103G	MAIN WASTE	NIC	MATCH EXISTING AT INFILL	Install new wallbase on wall where door is infilled. Match existing wall base in room.
A-103J	MECH. ROOM	NIC	NIC	
A-700	WAITING	LVT-1 & LVT-2	RB-1	Refer to Floor Finish Plan for flooring pattern.
A-700A	CORRIDOR	LVT-1 & LVT-2	RB-1	Refer to Floor Finish Drawings for flooring pattern. Refer to Wall Finish Drawing and Interior Elevations for wall finish information.
A-700B	CORRIDOR	LVT-1 & LVT-2	RB-1	Refer to Floor Finish Plan for flooring pattern.
A-700C	CORRIDOR	LVT-1 & LVT-2	RB-1	Refer to Floor Finish Plan for flooring pattern.
A-700D	CORRIDOR	LVT-2	RB-2	
A-700E	OPEN OFFICE	LVT-2	RB-2	
A-701	RECEPTION	LVT-1 & LVT-2	RB-1	Refer to Floor Finish Plan for flooring pattern.
A-702	CLOSET	LVT-1 & LVT-2	RB-1	Refer to Floor Finish Plan for flooring pattern.
A-703	W/C REPAIR	LVT-1	RB-2	
A-704	EXAM	LVT-1 & LVT-2	RB-2	Refer to Floor Finish Plan for flooring pattern.
A-705	EXAM	LVT-1 & LVT-2	RB-2	Refer to Floor Finish Plan for flooring pattern.
A-706	SHOE FITTING	LVT-1 & LVT-2	RB-2	Refer to Floor Finish Plan for flooring pattern.
A-707	STORAGE	RT-1	RB-2	Refer to Floor Finish Plan for flooring pattern.
A-709	TOILET	PT-1	NONE	Refer to Floor Finish Plan for floor tile pattern.
A-711	STORAGE	LVT-2	RB-2	Refer to Floor Finish Plan for flooring pattern.
A-712	OFFICE	LVT-2	RB-2	
A-713	OFFICE	LVT-2	RB-2	
A-714	OFFICE	LVT-2	RB-2	
A-715	LABORATORY	WSF-1	WSF-1 (INTEGRAL COVE)	Refer to Floor Finish Plan for flooring pattern.
A-716	MECHANICAL ROOM	C-1	RB-2	
A-E-102	ELECTRICAL	NIC	MATCH EXISTING AT INFILL	Install new wallbase on wall where door is infilled. Match existing wall base in room.
A-E-102D	ELEC.	NIC	MATCH EXISTING AT INFILL	Install new wallbase on wall where door is infilled. Match existing wall base in room.
A-S7	STAIR	WSF-1	RB-2	

GENERAL NOTE: ALL WALLS P-1, UNLESS OTHERWISE NOTED. SEE PLAN FOR ACCENT PAINT COLOR LOCATIONS. LEGEND INDICATES FINISH TYPE (PAINT/ WALL PROTECTION/ WALL TILE), PLAN INDICATES SELECTION ASSIGNMENT.

FLOOR FINISH KEY NOTES

NUMBER	DESCRIPTION
1	CONTINUE FLOORING PATTERN FROM A-700D. DO NOT RESTART PATTERN.
2	CONTINUE FLOORING PATTERN FROM CORRIDOR A-700B. DO NOT RESTART PATTERN.
3	CONTINUE ACCENT FLOORING PATTERN FROM CORRIDOR A-700B.
4	REFER TO WALL FINISH PLAN FOR FLOOR PAINT INFORMATION.
5	NEW FLOORING PATTERN START LOCATION.



NOTE: GC TO SELECT PROPER SIZING. ENSURE SELECTION IS ADA COMPLIANT.

A TRANSITION - TILE TO LVT & RUBBER TILE TO LVT

6" = 1'-0"

GENERAL NOTES - INTERIOR FINISHES

GENERAL NOTES:

1. EXISTING CONDITIONS HAVE BEEN SHOWN FROM GENERAL SPACE OBSERVATIONS AND EXISTING DRAWINGS RESPECTIVE TRADES SHALL CONDUCT A COMPLETE FIELD SURVEY OF EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID PRICE. NO ADDITIONAL PAYMENT WILL BE MADE FOR CLAIMS THAT ARISE FROM LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
2. ALL FINISHES SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND ORDINANCES; IBC SECTIONS 803, 804 AND 805.
3. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A MINIMUM OF TWELVE (12) MONTHS AFTER THE DATE OF FINAL COMPLETION TO CONTRACTOR UNDER THE CONTRACT. ANY ITEMS DEEMED TO BE DEFECTIVE SHALL BE REPLACED AT CONTRACTORS SOLE EXPENSE, BUT AT OWNER'S OPTION AND CONVENIENCE, BE REPAIRED, REPLACED OR RE-PERFORMED.
4. ALL GYPSUM BOARD SOFFITS AND HEADERS WITHIN THE SCOPE LIMIT LINES TO BE PAINTED SAME AS ADJACENT WALL COLOR UNLESS NOTED OTHERWISE.
5. FINISH DRAWINGS SUPERSEDE ARCHITECTURAL DRAWINGS FOR FINISH MATERIALS, COLORS AND LOCATIONS ONLY.
6. FINISH SAMPLES SHALL BE SUBMITTED TO COR FOR APPROVAL BEFORE PURCHASING AND INSTALLATION.
7. FINAL COUNTERTOP GROMMET LOCATIONS TO BE FIELD VERIFIED.

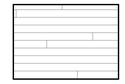
FLOORING NOTES:

1. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY COR OF ANY DISCREPANCIES.
2. PROVIDE NEW RUBBER BASE AND FLOOR COVERINGS AS SPECIFIED THROUGHOUT. CONTRACTOR TO PREP FLOORS AS NECESSARY FOR NEW FINISHES.
3. CONTRACTOR TO PROVIDE TEMPORARY PROTECTION ON ALL EXISTING & NEW FLOORING.
4. CONTRACTOR TO CLEAR CAULK AT ALL DOOR FRAMES WHERE NEW RESILIENT FLOORING HAS BEEN INSTALLED WITHIN SCOPE LIMITS.
5. TRANSITION AND REDUCING STRIPS ARE TO BE INSTALLED AT ALL CHANGES IN FLOOR MATERIAL AND/OR ELEVATION THAT OCCURS IN AREAS TO BE NEWLY FINISHED. VERIFY WITH COR EACH CONDITION AND TYPE OF TRANSITION AND/OR REDUCING STRIP TO BE USED PRIOR TO INSTALLATION. FLOAT FLOOR AS REQUIRED FOR SMOOTH/FLUSH TRANSITION BETWEEN MATERIAL CHANGES. TRANSITION TO BE INSTALLED AT CENTER OF DOOR. SEE SCHEDULE FOR TYPE.

WALL NOTES:

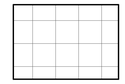
1. PREP ALL EXISTING AND NEW WALLS FOR NEW FINISHES, PATCH AND REPAIR WALLS TO CREATE A SMOOTH UNIFORM FINISH.
2. CONTRACTOR TO APPLY AT LEAST TWO COATS OF PAINT. EACH COAT TO BE EQUAL TO 1.6 MIL. APPLY MORE IF NECESSARY TO COVER EXISTING COLOR.
3. CONTRACTOR IS TO PREP WALLS AS NECESSARY FOR NEW WALL BASE.
4. CONTRACTOR SHALL PAINT ALL MISC. METAL ITEMS SUCH AS ELECTRICAL PANEL COVERS, COUNTERTOP SUPPORT BRACKETS, ELECTRICAL WIRE MOLD, ETC. TO MATCH ADJACENT WALL COLOR. SEE WALL FINISH SCHEDULE.

FLOORING KEY



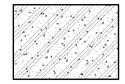
LVT-1

INSTALL NOTES:
1. INSTALL IN 1/2 STAGGERED PLANK PATTERN.
2. REFER TO FLOOR FINISH PLAN AND KEY NOTES FOR PATTERN START LOCATIONS.
3. REFER TO FLOOR FINISH PLAN FOR FOR GRAIN DIRECTION.
4. WHERE PATTERN START IS NOT INDICATED, CENTER WIDTH OF PLANKS EQUALLY BETWEEN WALLS.
5. CONTINUE PATTERN THROUGH DOOR OPENINGS, WHERE INDICATED. DO NOT RESTART PATTERN IN THESE LOCATIONS.



LVT-2

INSTALL NOTES:
1. INSTALL IN MONOLITHIC PATTERN.
2. REFER TO FLOOR FINISH PLAN FOR PATTERN START LOCATIONS.
3. NO VISUAL GRAIN DIRECTION TO CONSIDER DURING INSTALL.
4. CONTINUE PATTERN THROUGH DOOR OPENINGS, WHERE INDICATED. DO NOT RESTART PATTERN IN THESE LOCATIONS.
5. WHERE PATTERN START IS NOT INDICATED, CENTER EQUALLY BETWEEN WALLS.



WSF-1

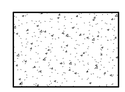
INSTALL NOTES:
1. NO VISUAL GRAIN DIRECTION TO CONSIDER DURING INSTALL.
2. LAYOUT SHOULD MINIMIZE SEAMING.

RT-1

INSTALL NOTES:
1. INSTALL IN MONOLITHIC PATTERN.
2. NO VISUAL GRAIN DIRECTION TO CONSIDER DURING INSTALL.
3. WHERE PATTERN START IS NOT INDICATED, CENTER EQUALLY BETWEEN WALLS.

PT-1

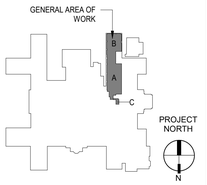
INSTALL NOTES:
1. INSTALL IN STACKED MONOLITHIC PATTERN.
2. REFER TO FLOOR FINISH PLAN FOR PATTERN START LOCATIONS.
3. REFER TO FLOOR FINISH PLAN FOR VISUAL PATTERN (GRAIN) DIRECTION.
4. SEE TOILET ROOM ELEVATIONS (AE202) FOR WALL TILE INSTALL PATTERN.



C-1

INDICATES FLOORING **NOT IN CONTRACT**.

INDICATES DIRECTION OF FLOORING PATTERN INSTALLATION (GRAIN DIRECTION).



A LEVEL KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY LEONARD J. NAVIN REGISTERED ARCHITECT 21734
6/18/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: INTERIOR FINISH LEGEND, FLOOR FINISH PLAN & SCHEDULE

Approved:

Phase: FINAL BID DOCUMENTS

FULLY SPRINKLERED

Project Title: UPGRADE PROSTHETICS LAB

Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS

Issue Date: 6/18/2021

Checked: JLH

Drawn: ACELA

Project Number: 561-19-160

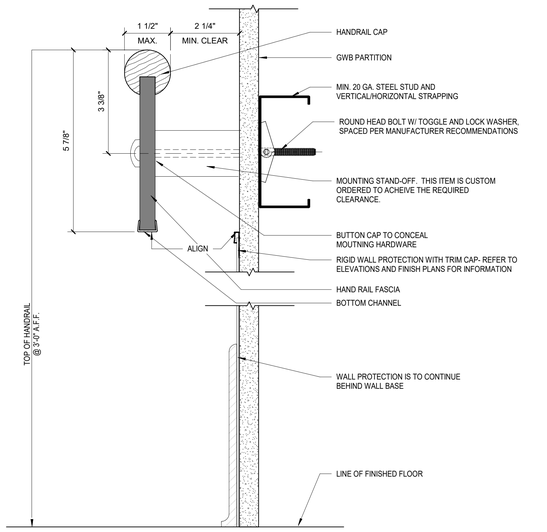
Building Number: 1

Drawing Number: AI101

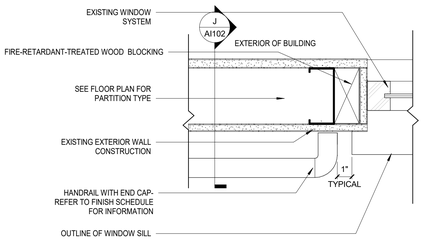
VA FORM 08 - 6231

C:\Users\alexnady\Documents\561-19-160_Prosthetics Lab VA 60219 CM 11-06-20_alexnady.VWR001.rvt

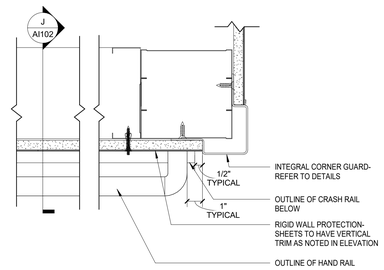
7/12/2021 3:32:55 PM



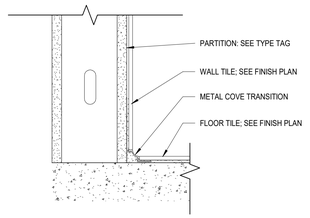
J DETAIL - HANDRAIL W/ BASE
6" = 1'-0"



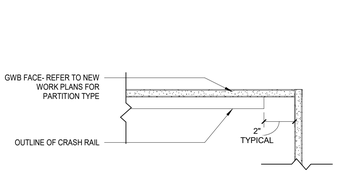
G SECTION - TYPICAL HANDRAIL TERMINATION AT WINDOW SILL
3" = 1'-0"



D SECTION - WALL PROTECTION TERMINATION AT HANDRAIL & CRASH RAIL OUTSIDE CORNER
3" = 1'-0"

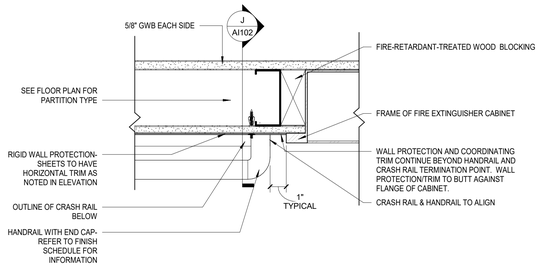


C DETAIL - TRANSITION - WALL TILE TO FLOOR TILE
3" = 1'-0"

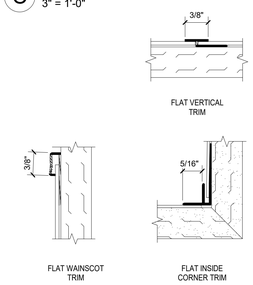


INSTALL NOTE: DISTANCE BETWEEN WALL AND CRASH RAIL MAY DECREASE. HOLD A DISTANCE LARGE ENOUGH TO INSTALL END CAP OF CRASH RAIL SUCCESSFULLY. HOLD 1" DISTANCE MINIMUM.

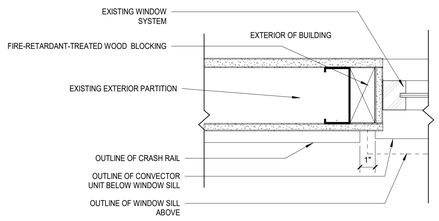
I SECTION - TYPICAL CRASH RAIL TERMINATION AT INSIDE CORNER
3" = 1'-0"



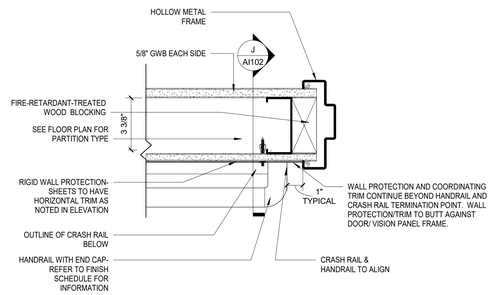
F SECTION - TYPICAL HANDRAIL/ CRASH RAIL TERMINATION AT FIRE EXTINGUISHER CABINET
3" = 1'-0"



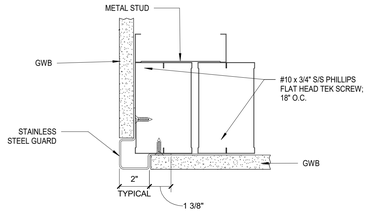
B DETAIL - RIGID WALL PROTECTION TRIM
12" = 1'-0"



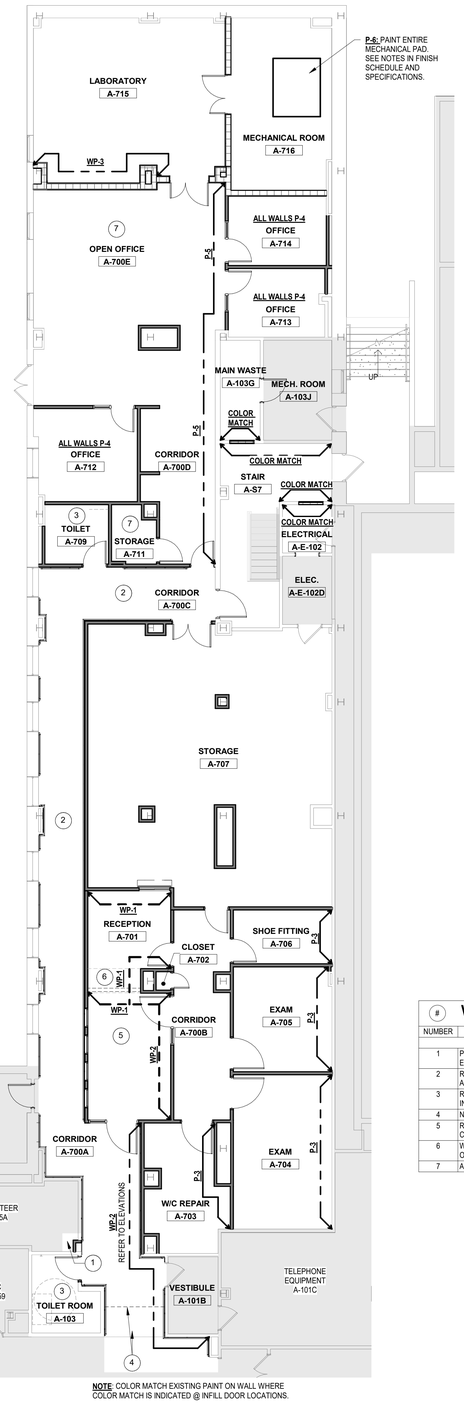
H SECTION - TYPICAL HANDRAIL TERMINATION AT CONVECTOR UNIT
3" = 1'-0"



E SECTION - TYPICAL HANDRAIL/ CRASH RAIL TERMINATION AT HOLLOW METAL FRAME
3" = 1'-0"



A DETAIL - CORNER GUARD
3" = 1'-0"

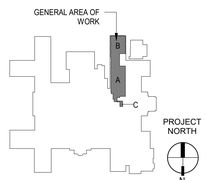


NOTE: COLOR MATCH EXISTING PAINT ON WALL WHERE COLOR MATCH IS INDICATED @ INFILL DOOR LOCATIONS.

1 WALL FINISH PLAN
1/8" = 1'-0"

WALL FINISH KEY NOTES

NUMBER	DESCRIPTION
1	PAINT INTERIOR OF ROOM A-105A AS REQUIRED WITH NEW WORK. PAINT TO MATCH EXISTING ADJACENT WALL FINISH
2	REFER TO DRAWING SHEET AE203 FOR FINISH ASSIGMENT ON WALLS IN CORRIDOR A-700A AND A-700C.
3	REFER TO DRAWING SHEET AE332 FOR WALL TILE DIRECTION. MATCH TILE PLACEMENT IN ELEVATION AS INDICATED FOR PATTERN.
4	NEW HEADER & ADJACENT EXISTING SOFFIT ARE TO BE PAINTED 'P-4'
5	REFER TO INTERIOR ELEVATIONS (AE203) FOR WALL PROTECTION AND WAINSCOTING CAP INFORMATION. SEE DETAILS.
6	WP-1 IS TO BE INSTALLED AT ALL FACES, UNDERSIDE OF SOFFIT AND ALL THREE SIDES OF COLUMN BUILDOUT
7	ALL WALLS ARE TO BE PAINTED P-4, EXCEPT IF OTHERWISE NOTED.



A LEVEL KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · JOHN LEONARD HEIM · 21734 · REGISTERED ARCHITECT
6/18/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

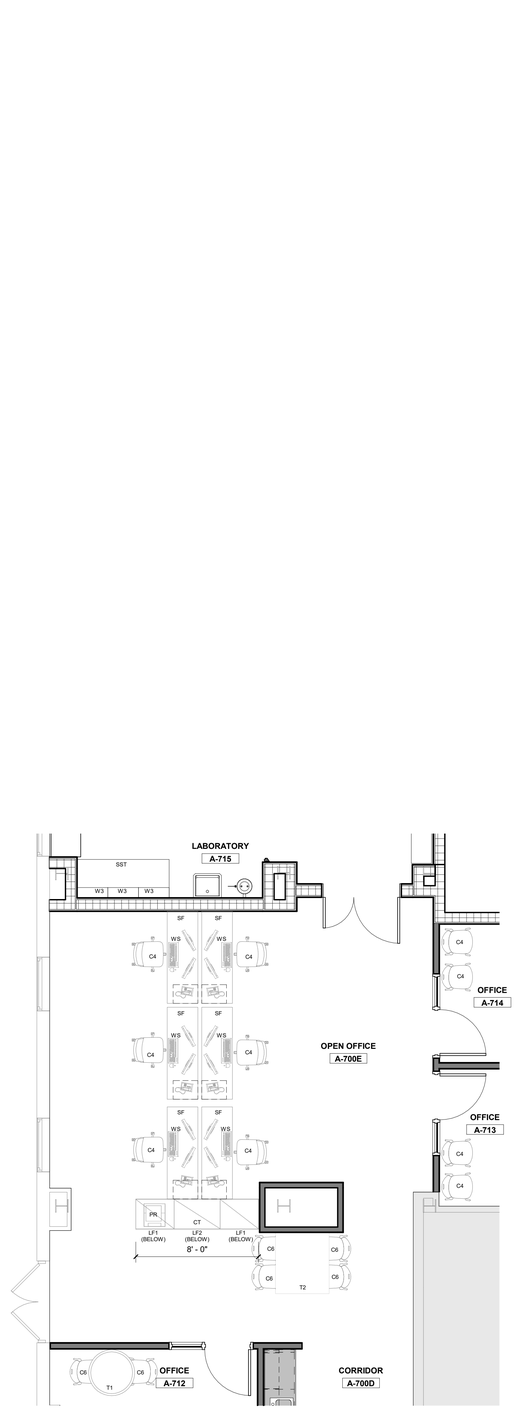
Drawing Title	WALL FINISH PLAN & DETAILS
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	UPGRADE PROSTHETICS LAB
Location	VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS
Issue Date	6/18/2021
Checked	JLH
Drawn	ACELA
Project Number	561-19-160
Building Number	1
Drawing Number	AI102

Page 21 of 43

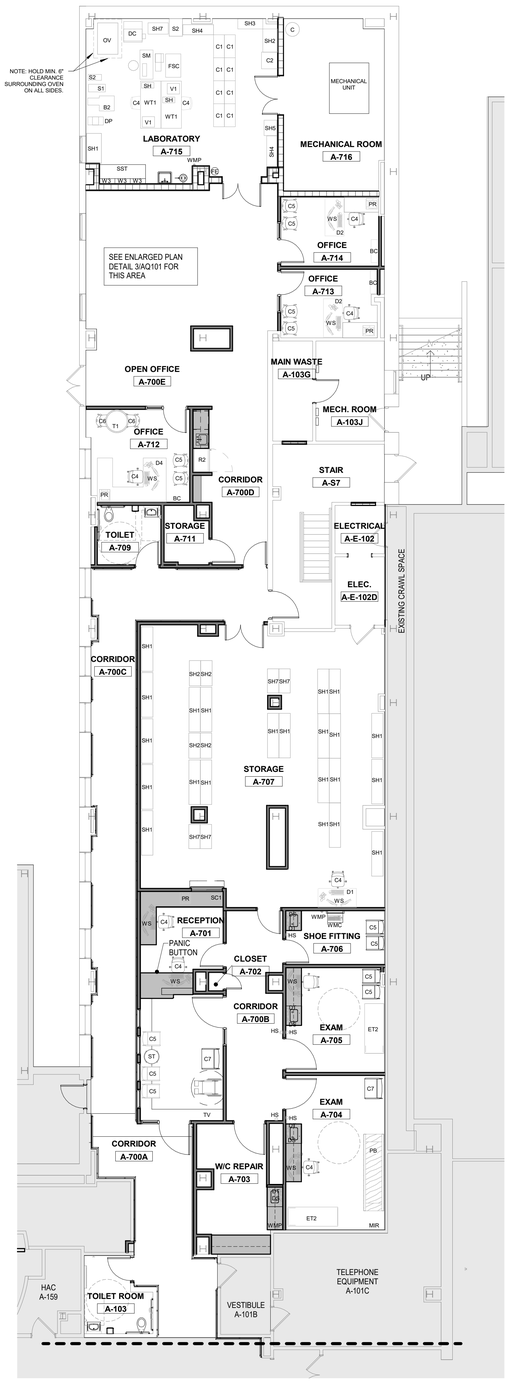
C:\Users\alexkunsky\Documents\561-19-160_ProstheticsLab VA R2019 CM 11-06-20_alexkunsky.rvt

7/12/2021 3:33:00 PM

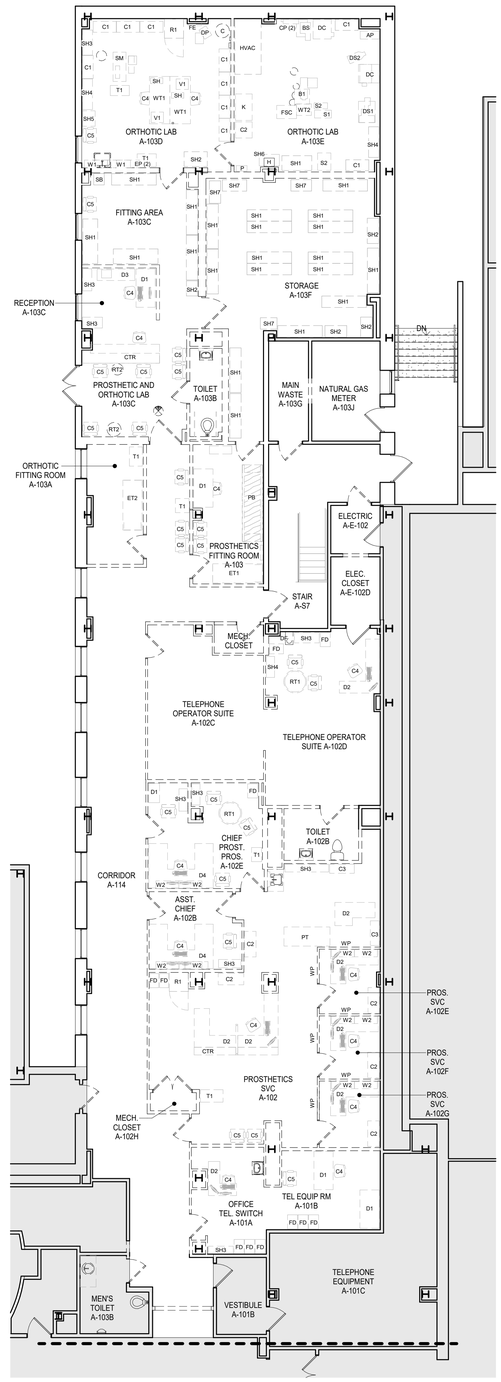
VA FORM 08 - 6231



3 ENLARGED PLAN - OPEN OFFICE EQUIPMENT PLAN
1/4" = 1'-0"



2 EQUIPMENT PLAN - NEW
1/8" = 1'-0"



1 EQUIPMENT PLAN - DEMOLITION
1/8" = 1'-0"

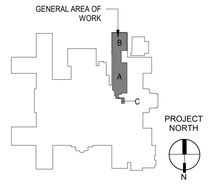
EQUIPMENT SCHEDULE

TAG	COMPONENT	REMOVED BY V.A. INSTALLED BY V.A.	REMOVAL AND DISPOSAL BY CONTRACTOR	CONTRACTOR TO INSTALL	REMOVED BY CONTRACTOR, INSTALLED BY CONTRACTOR	SUPPLIED BY THE V.A. INSTALLED BY THE V.A.	CONTRACTOR PROVIDE, CONTRACTOR INSTALL
AP	ACCESS PANEL (ON WALL)		■				
B1	BAND SAW - EXISTING			■			
B2	BAND SAW - NEW			■			
BC	LOW BOOKCASE	■					
BS	BELT SANDER	■					
C	AIR COMPRESSOR				■		
C1	TALL METAL CABINET	■					
C2	SHORT FILE CABINET	■					
C3	WOOD STOR. CABINET FOR TALL SHEETS OF MATERIAL	■					
C4	CHAIR (TASK)	■					
C5	ARMCHAIR	■					
C6	SIDE CHAIR (ARMLESS)	■					
C7	BARIATRIC CHAIR					■	
CP	CONTROL PANEL		■				
CT	COMMON TOP (FURNITURE)					■	
CTR	COUNTER		■				
D1	RECTANGULAR DESK	■					
D2	"L" SHAPE DESK		■				
D3	FILE CABINET DESK	■					
D4	"U" SHAPE DESK	■					
DC	DUST COLLECTOR					■	
DF	DRINK FOUNTAIN		■				
DP	DRILL PRESS					■	
DS	WALL MOUNTED SOAP DISPENSER			■			
DS1	DISC SANDER		■				
DS2	DISC SANDER		■				
DT	WALL MOUNTED PAPER TOWEL DISPENSER			■			
FSC	FLAMMABLE STORAGE CABINET	■					
EP	ELECTRIC PANEL		■				
ET1	EXAM TABLE	■					
ET2	EXAM TABLE 2	■					
FD	DRAWER VERTICAL FILE CABINET	■					
FE	FIRE EXTINGUISHER				■		
FEC	FIRE EXTINGUISHER CABINET						■
H	HUMIDIFIER (WALL MTD.)		■				
HS	HAND SANITIZER (WALL MTD.)			■			
HVAC	MECHANICAL UNIT		■				
K	KILN	■					
LF1	LATERAL FILE - 3 DRAWER; 30" WIDE					■	
LF2	LATERAL FILE - 3 DRAWER; 36" WIDE					■	
OV	OVEN			■			
MIR	MIRROR ON WHEELS					■	
P	PUMP (WATER) ON FLOOR		■				
PB	PARALLEL BARS	■					
PR	PRINTER					■	
PT	PLASTIC TABLE	■					
R1	REFRIGERATOR (EXISTING)		■				
R2	REFRIGERATOR (NEW)					■	
RT1	ROUND TABLE	■					
RT2	ROUND END TABLE	■					
SC1	SCANNER		■				
S1	DISC SANDER		■				
S2	ROLL SANDER	■					
SB	STACKED BINS - PLASTIC					■	
SF	SYSTEM FURNITURE - DESK & MOBILE PED	■					
SH	SHAPER FASTENED TO WT1	■					
SH1	WIRE SHELF ON WHEELS	■					
SH2	WIRE SHELF ON WHEELS	■					
SH3	WOOD SHELF	■					
SH4	METAL SHELF	■					
SH5	PLASTIC SHELF ON WHEELS	■					
SH6	12" HIGH WIRE SHELF WITH PLASTER OF PARIS	■					
SH7	WIRE SHELF (NOT ON WHEELS)	■					
SM	SEWING MACHINE ON TABLE						■
SST	STAINLESS STEEL WORK TABLE (72"Lx30"Dx36"H W/ SHELVES BELOW AND 4"H BACKSPLASH)	■					
ST	SIDE TABLE					■	
T1	TABLE	■					
T2	TABLE	■					
TV	WALL MOUNTED TELEVISION (BRACKET BY CONTRACTOR)			■			
V1	VICE FASTENED TO WT1	■					
W1	WALL CABINETS	■					
W2	WALL CABINETS (DESK)						■
W3	WALL MOUNTED STAINLESS STEEL SHELVES (3)						■
WMC	WALL MOUNTED COMPUTER STATION					■	
WMP	WALL MOUNTED PHONE		■				
WP	WALL PANEL - SYSTEMS FURNITURE					■	
WS	WORK STATION; (2) MONITORS, KEYBOARD, MOUSE, PHONE	■					
WT1	WORK TABLE	■					
WT2	WORK TABLE	■					

NOTE: CONTRACTOR TO SUPPLY AND INSTALL ALL WALL BLOCKING AND ELECTRICAL OUTLETS AS REQUIRED FOR A COMPLETE INSTALLATION FOR ALL EQUIPMENT AND CASEWORK.

CASEWORK LEGEND

INDICATES CASEWORK OR MILLWORK ITEM SUPPLIED BY GC. SEE CORRESPONDING ELEVATIONS, DETAILS AND FINISH SCHEDULE FOR MORE INFORMATION.



A LEVEL KEY PLAN

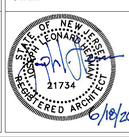
Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP



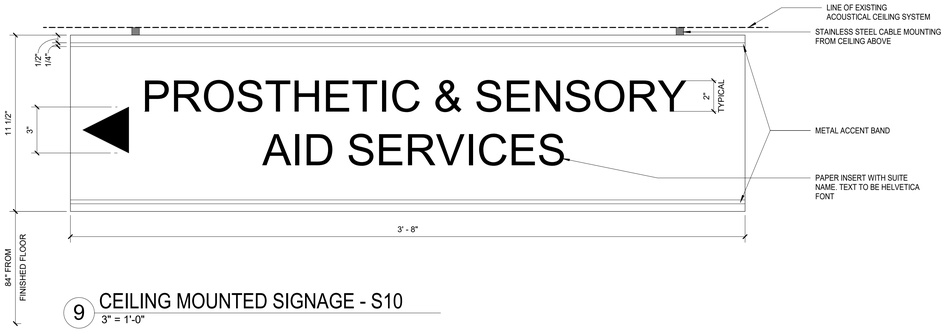
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

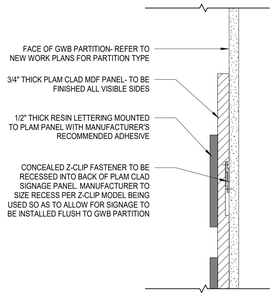
Drawing Title: A LEVEL - EQUIPMENT PLANS - EXISTING & NEW WORK	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETICS LAB	Project Number: 561-19-160
Approved:	FULLY SPRINKLERED	Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS	Building Number: 1
		Issue Date: 6/18/2021 / Checked: JLH / Drawn: ACELA	Drawing Number: AQ101

VA FORM 08 - 6231

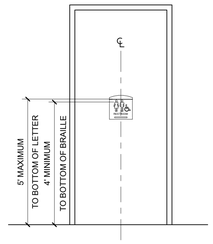
C:\Users\ahuneault\Documents\561-19-160_Prosthetics Lab VA R2019 Cbf 11-05-20_ahuneault@NJVA.ccf
7/12/2021 3:33:12 PM



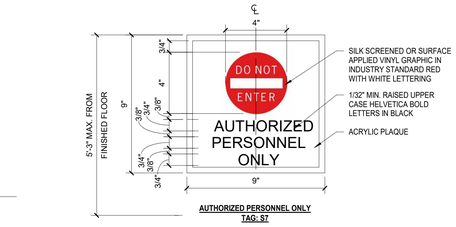
9 CEILING MOUNTED SIGNAGE - S10
3" = 1'-0"



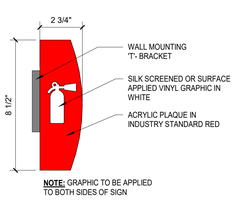
8 SECTION - RECEPTION SIGNAGE MOUNTING
3" = 1'-0"



5 ELEVATION - TOILET ROOM SIGNAGE (DOOR MOUNTED)
1/2" = 1'-0"

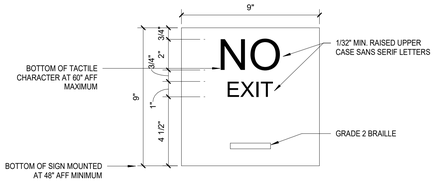


AUTHORIZED PERSONNEL ONLY
TAG: S7

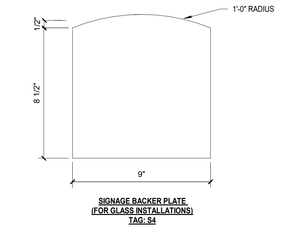


NOTE: GRAPHIC TO BE APPLIED TO BOTH SIDES OF SIGN

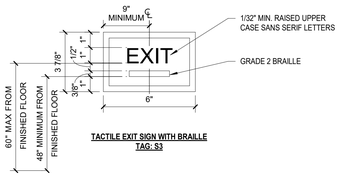
FIRE EQUIPMENT IDENTIFICATION
TAG: S9



NOT EXIT
TAG: S8

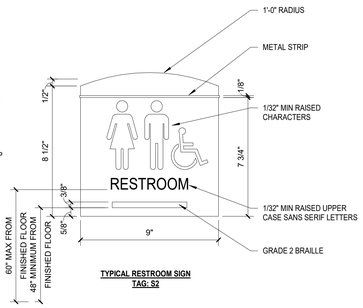


SIGNAGE BACKER PLATE (FOR GLASS INSTALLATIONS)
TAG: S4

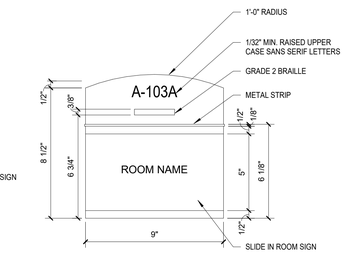


TACTILE EXIT SIGN WITH BRAILLE
TAG: S3

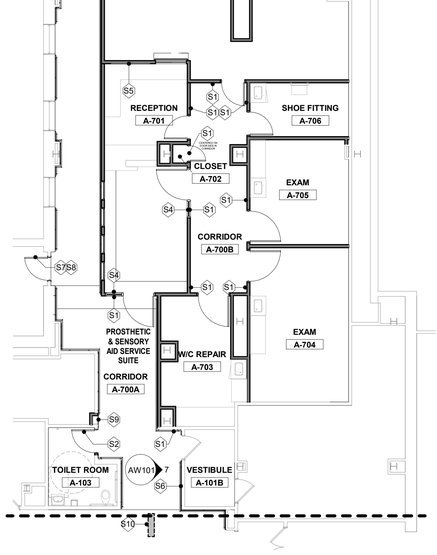
NOTE:
- 9" MINIMUM FROM DOOR JAMB EDGE TO CENTERLINE OF SIGN, WHERE WALL-MOUNTED.
- WALL-MOUNTED ON LATCH SIDE FOR SINGLE USE DOORS.
- WALL-MOUNTED ON INACTIVE LEAF SIDE FOR DOUBLE DOORS W/ ONE ACTIVE LEAF.
- WALL-MOUNTED ON RIGHT SIDE OF ACTIVE LEAF FOR DOUBLE DOORS W/ TWO ACTIVE LEAVES



TYPICAL RESTROOM SIGN
TAG: S2

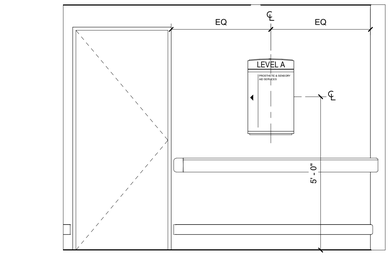


TYPICAL ROOM SIGN
TAG: S1

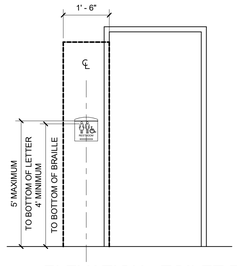


NOTE: PLAN SHOWS APPROXIMATE LOCATION OF SIGNAGE. REFER TO ELEVATIONS FOR FURTHER INSTALL LOCATION INFORMATION.

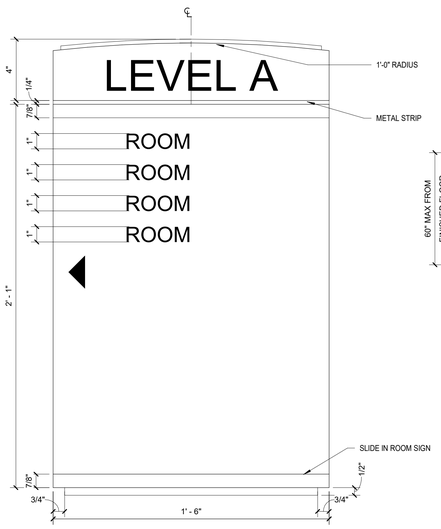
1 FLOOR PLAN - INTERIOR SIGNAGE
1/8" = 1'-0"



7 ELEVATION - MAIN CORRIDOR SUITE SIGNAGE - S6
1/2" = 1'-0"



4 ELEVATION - TOILET ROOM SIGNAGE
1/2" = 1'-0"



DIRECTIONAL SIGN
TAG: S6

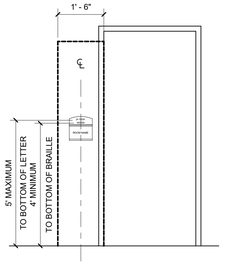
SIGNAGE NOTE:
1. GC TO VERIFY ALL DIMENSIONS, MATERIALS, LETTERING, ETC... OF EXISTING SIGNAGE TO BE REUSED FOR PROPOSED SIGNAGE PRIOR TO FABRICATION. SUBMIT SHOP DRAWINGS TO ARCHITECT AND FIELD VERIFIED MEASUREMENTS FOR REVIEW.
2. TYPICAL MOUNTING HEIGHT IS 54" AFF TO CENTER LINE OF SIGN. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MIN AND 60 INCHES MAX AFF MEASURED FROM THE BASELINE OF THE LOWEST AND HIGHEST TACTILE CHARACTER RESPECTIVELY.

2 SIGNAGE TYPICALS
3" = 1'-0"

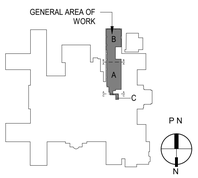
TEXT HEIGHT: 6"H
FONT: FRANKLIN GOTHIC MEDIUM; BOLD.
(DO NOT USE FRANKLIN GOTHIC HEAVY)

ACELA TO REVIEW SHOP DRAWINGS FROM MANUFACTURER FOR APPROVAL.

6 3D - INTERIOR SIGNAGE @ RECEPTION - S5



3 ELEVATION - ROOM NAME SIGNAGE
1/2" = 1'-0"



A LEVEL KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — JOHN LEONARD LEVITT — 21734 — REGISTERED ARCHITECT — 6/18/2021

Office of Construction and Facilities Management

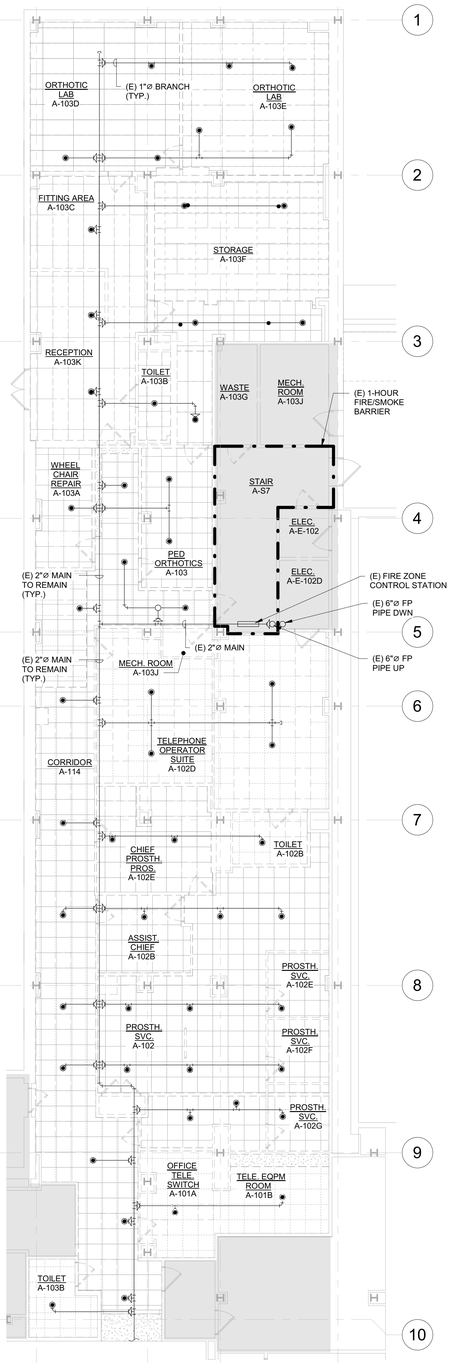
VA U.S. Department of Veterans Affairs

Drawing Title: INTERIOR SIGNAGE, ELEVATIONS & DETAILS	Phase: FINAL BID DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: UPGRADE PROSTHETICS LAB
Project Number: 561-19-160
Building Number: 1
Location: VA NEW JERSEY HEALTH CARE SYSTEM - EAST ORANGE CAMPUS
Drawing Number: AW101
Issue Date: 6/18/2021
Checked: JLH
Drawn: ACELA

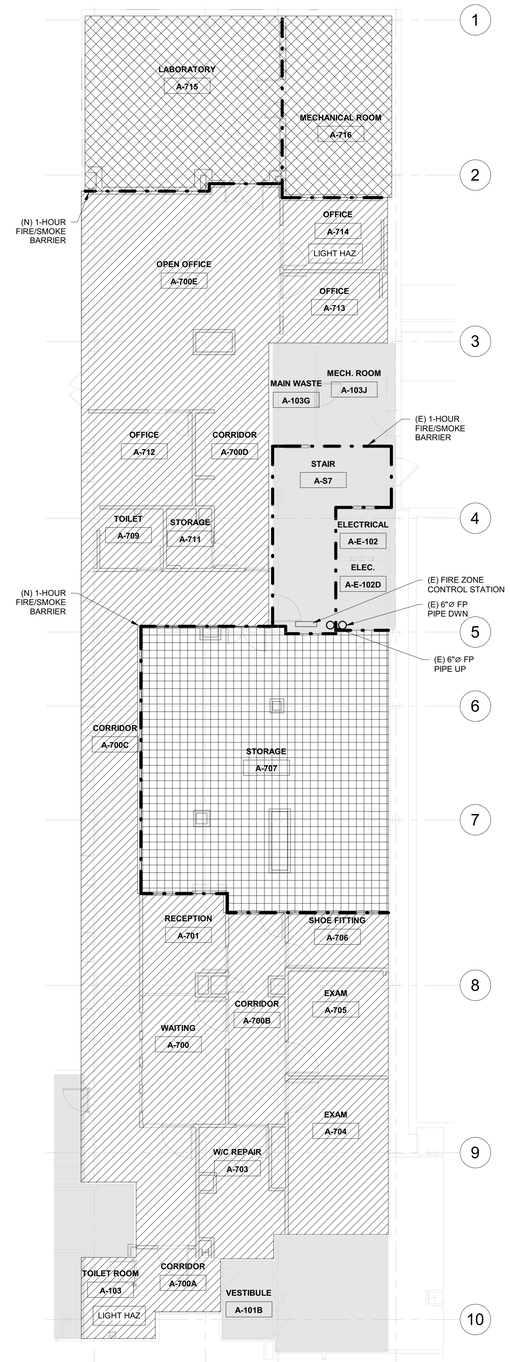
VA FORM 08 - 6231

C:\Users\alevitt\Desktop\Documents\561-19-160_Prosthetics Lab VA NJ\21X DM 11-05-20_alevitt.rvt 7/12/2021 3:37:36 PM



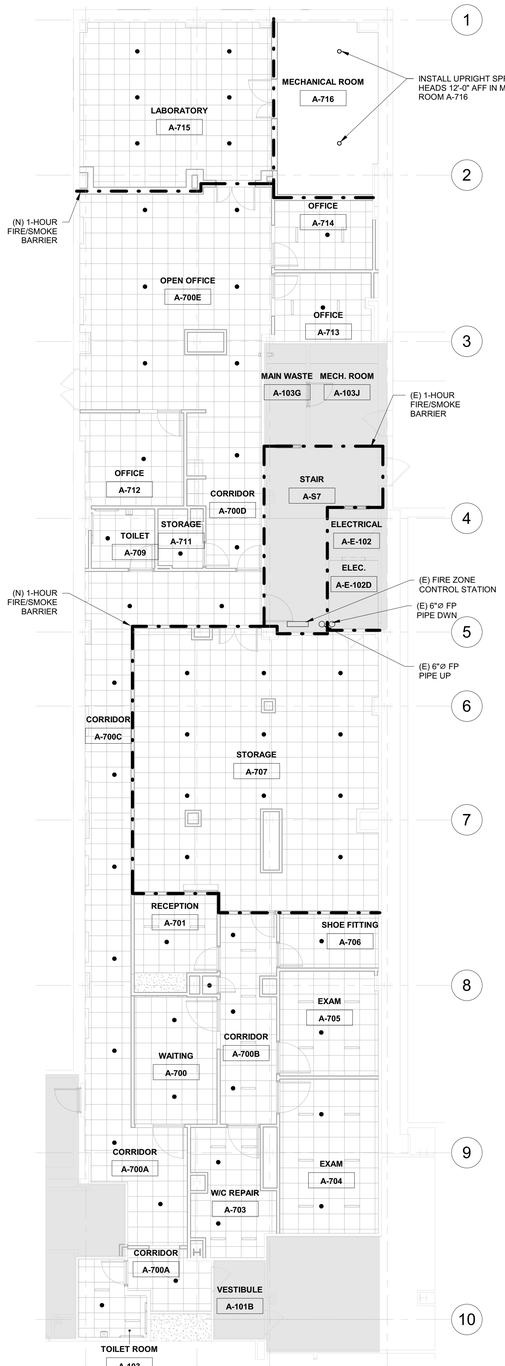
1 FIRE PROTECTION PLAN - DEMOLITION

1/8" = 1'-0"



2 FIRE PROTECTION PLAN - HAZARD CLASSIFICATIONS

1/8" = 1'-0"



3 FIRE PROTECTION PLAN - NEW WORK SPRINKLERS

1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

1. FIRE PROTECTION SPRINKLER INSTALLATION SHALL MEET THE REQUIREMENTS OF THE FOLLOWING:
   A. NFPA 13 AND 14, 2019 EDITION.
   B. LOCAL AND STATE REGULATIONS AND IBC 2018 EDITION.
   C. DVA FIRE PROTECTION MANUAL; SEVENTH EDITION, REVISED DECEMBER 2015.
2. SPRINKLER HEADS SHALL BE FM APPROVED QUICK RESPONSE IN ALL AREAS EXCEPT WHERE SPECIFICALLY PROHIBITED, IN COMPLIANCE WITH VA GUIDELINES AND NFPA REQUIREMENTS.
3. SPRINKLER HEADS IN ELECTRICAL ROOMS/CLOSETS, HEADS AND WITHIN 15 FEET OF AUTOCLAVES SHALL BE INTERMEDIATE TEMPERATURE RATED. SPRINKLER ROOMS IN MECHANICAL ROOMS TO BE TEMPERATURE RATED. ALL OTHER SPRINKLER HEADS SHALL BE ORDINARY TEMPERATURE RATED UNLESS NOTED OTHERWISE.
4. SPRINKLER PIPE SIZES AND SPRINKLER HEAD LOCATIONS SHALL CONFORM TO NFPA REQUIREMENTS.
5. PIPING SHALL NOT BE LOCATED IN ANY ELECTRICAL ROOMS/CLOSETS OR TELECOMMUNICATION ROOMS/CLOSETS UNLESS THOSE PIPES SERVE ONLY THAT SPACE.
6. ALL SPRINKLER PIPE TO MAINTAIN A 6'-0" MIN. VERTICAL CLEARANCE FROM TOP OF ELECTRICAL CONTROL PANELS & SWITCHGEAR/TRANSFORMERS.
7. PROVIDE SPRINKLER ZONE FLOOR CONTROL VALVE ASSEMBLY CONSISTING OF ZONE VALVE WITH SUPERVISORY SWITCH, CHECK VALVE, FLOW SWITCH, SELF-CONTAINED TEST AND DRAIN ASSEMBLY AND PRESSURE GAGE, ON THE SPRINKLER MAIN BRANCH SERVING EACH FLOOR.
8. INSTALL PIPING SO THAT VALVES ARE ACCESSIBLE AND STEMS EXTEND VERTICALLY UP. ALL CONTROL VALVES SHALL BE EQUIPPED WITH TAMPER SWITCHES.
9. ALL WATER FLOW SWITCHES MUST BE ISOLATED BY MEANS OF A FITTING OR UNION ON BOTH SIDES TO FACILITATE REMOVAL AND SERVICE OF THE FLOW SWITCH.
10. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE QUANTITY OF SPRINKLER HEADS AS REQUIRED TO MAINTAIN THE MIN. COVERAGE REQUIRED BY NFPA 13 IN ALL AREAS IN THE PROJECT SCOPE.
11. COORDINATE COLOR OF SPRINKLER HEAD COVER PLATES OR TRIM RINGS WITH CEILINGS THROUGHOUT PROJECT. MATCH CEILING COLOR AS REQUIRED.
12. COORDINATE THE EXACT LOCATION OF ALL SPRINKLER HEADS, PIPING, EQUIPMENT, AND DEVICES WITH ARCHITECTURAL DRAWINGS AND THE RESPECTIVE DRAWINGS OF PIPING, DUCTWORK, DIFFUSERS, BEAMS, LIGHTS, ETC. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THESE COMPONENTS IN THE FIELD AND DOCUMENT ON THEIR SUBMITTALS.
13. PROVIDE COMPLETE AND FUNCTIONAL FIRE PROTECTION SYSTEMS FOR THE PROJECT. THE SYSTEMS SHALL CONFORM TO THE SPECIFICATIONS AND AS SHOWN ON DRAWINGS. ITEMS OR WORK NOT SHOWN OR SPECIFIED, BUT REQUIRED FOR COMPLETE SYSTEMS, SHALL BE PROVIDED AND CONFORM TO ACCEPTED TRADE PRACTICES. THE DRAWINGS AND SPECIFICATIONS ARE PRESENTED TO DEFINE SPECIFIC SYSTEM REQUIREMENTS AND SERVE TO EXPAND ON THE PRIMARY CONTRACT REQUIREMENTS OF PROVIDING COMPLETE SYSTEMS. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND ROUTING OF THE SYSTEMS INCLUDED IN THE SCOPE OF WORK.
14. THESE DRAWINGS WERE PREPARED FROM INFORMATION TAKEN FROM THE ORIGINAL BUILDING DRAWINGS, THE 2011 BUILDING WIDE SPRINKLER SYSTEM UPGRADE (VA PROJECT #528A7-11-704), AND FIELD SURVEY INFORMATION COMPILED BY THE ENGINEERING DESIGN TEAM FOR THE PURPOSE OF ENGINEERING DESIGN CONCEPT. EXISTING CONDITIONS ARE SHOWN AS ACCURATELY AS POSSIBLE. THERE IS THE POSSIBILITY THAT CONDITIONS SHOWN ARE NOT EXACTLY AS EXISTING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, LOCATIONS, SIZES AND CONDITIONS AT THE SITE AND DOCUMENT ALL INFORMATION ON SUBMITTALS.
15. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS ARE BEING OBSERVED. THE CONTRACTOR SHALL INSTALL SIGNAGE, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE COR AND WILL PROMPTLY BE RESTORED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.
16. CONTRACTOR SHALL MAKE ALL NECESSARY SUBMISSIONS AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO STARTING FABRICATION AND CONSTRUCTION.
17. CONTRACTOR SHALL PROVIDE WIRED SMOKE DETECTORS IN THE CONSTRUCTION AREA DURING CONSTRUCTION UNTIL NEW SPRINKLER SYSTEM IS FUNCTIONAL.

FIRE PROTECTION DESIGN

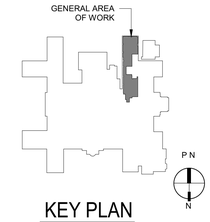
1. SYSTEM TYPE; WET-PIPE
2. SPRINKLER HEAD SPACING AND PIPE SIZING SHALL BE:
   A. LIGHT HAZARD COVERAGE: 0.10 GPM/SQ.FT. OVER 1500 SQ.FT., 225 SQ.FT. PER SPRINKLER HEAD.
   B. ORDINARY HAZARD GROUP I COVERAGE: 0.15 GPM/SQ.FT. OVER 1500 SQFT., 130 SQ.FT. PER SPRINKLER HEAD.
   C. ORDINARY HAZARD GROUP II COVERAGE: 0.20 GPM/SQ.FT. OVER 1500 SQ.FT., 130 SQ.FT. PER SPRINKLER HEAD.
3. PROVIDE FOR AN ADDITIONAL WATER ALLOWANCE OF 250 FPM FOR INSIDE AND OUTSIDE HOSE STREAMS IN THE SPRINKLER HYDRAULIC REQUIREMENTS.
4. THE CALCULATED DEMAND INCLUDING HOSE STREAM REQUIREMENTS SHALL FALL NO LESS THAN 10 PERCENT BELOW THE AVAILABLE WATER SUPPLY.
5. SYSTEM SHALL BE DESIGNED ON A HYDRAULICALLY CALCULATED BASIS UTILIZING THE AREA DENSITY METHOD PER NFPA 13 BY THE SPRINKLER CONTRACTOR. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY.
6. SPRINKLER PIPE SIZES SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS BASED ON EXISTING SPRINKLER SYSTEM HYDRAULIC DATA TOTAL FLOW; 1335 GPM AT 60 PSI.

FIRE PROTECTION NEW WORK NOTES

1. SCOPE OF WORK: REMOVE EXISTING SPRINKLER HEADS AND BRANCH PIPING IN PROJECT WORK AREA. REWORK SPRINKLER BRANCH PIPING IN PROJECT WORK AREA TO ACCOMMODATE RENOVATIONS AND INSTALLATION OF ALL NEW TRADES. SPRINKLER SYSTEM IN PROJCET WORK AREA WILL BE SERVED FROM EXISTING SPRINKLER ZONE FROM STAIR A-S7. COORDINATE HEAD LOCATIONS WITH ARCHITECTURAL CEILING PLAN.
2. WHERE REQUIRED, RECONNECT EXISTING SPRINKLER BRANCH PIPING SERVING ROOMS NOT INCLUDED IN THE PROJECT SCOPE OF WORK ARAE. THESE ROOMS SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO: A-103G, A-103J, A-E-102, A-E-102D, AND STAIR A-S7.
3. ALL HANGERS SHALL BE PER NFPA 13 AND VA STANDARDS.
4. THE FIRE SPRINKLER SYSTEM SHALL BE FABRICATED, INSTALLED, TESTED AND PLACED INTO SERVICE IN ACCORDANCE WITH NFPA 13 AND VA STANDARDS.
5. ANY NEW SPRINKLER SYSTEM PIPING SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH NFPA AND VA STANDARDS.
6. ALL NEW 1" - 2" PIPING SHALL BE SCHEDULE 40 BLACK CARBON STEEL, THREADED FITTINGS AND JOINTS.
7. PIPE LABELS SHALL BE EVERY 20'.
8. PIPE SLEEVES SHALL BE SV40 BLACK PIPE FOR ALL PIPES PASSING THROUGH WALLS.
9. APPROVED IDENTIFICATION SIGNS FOR ALL SYSTEM COMPONENTS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13 AND VA STANDARDS.
10. ALL EXPOSED SPRINKLER PIPING (EXISTING AND NEW) SHALL BE PAINTED RED.

FIRE PROTECTION LEGEND

- AREA TO HAVE LIGHT HAZARD COVERAGE (LIGHT HAZ)
- AREA TO HAVE ORDINARY HAZARD GROUP I COVERAGE (OH-1)
- AREA TO HAVE ORDINARY HAZARD GROUP II COVERAGE (OH-2)
- AREA NOT IN SCOPE OF PROJECT
- SEMI RECESSED PENDANT SPRINKLER
  EXISTING PLANS: EXISTING TO BE REMOVED
  NEW WORK PLANS: NEW TO BE INSTALLED
- UPRIGHT SPRINKLER HEAD
  EXISTING PLANS: EXISTING TO BE REMOVED
  NEW WORK PLANS: NEW TO BE INSTALLED



KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · DAVID ALLEN BROWN · 24GE04258100 · PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION DEMOLITION & NEW WORK	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETIC LAB	Project Number: 561-19-160
Approved:	FULLY SPRINKLERED	Location: EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ	Building Number: 1
		Issue Date: 6/18/2021 / Checked: DJW / Drawn: ACELA	Drawing Number: FX101

Page 24 of 43

VA FORM 08 - 6231

C:\Users\bzhang.ACELA\OneDrive - Acela Architects + Engineers, P C\Documents\20-USDVA-04 MEP_bzhangYDJ40.rvt

7/9/2021 2:22:36 PM

PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
AD	AREA DRAIN/ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AG	AIR GAP
AP	ACCESS PANEL
AS	AUTOMATIC SPRINKLER
ASD	ADJUSTABLE SPEED DRIVES
ASD	AUTOMATIC SPRINKLER DRAIN
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASR	AUTOMATIC SPRINKLER RISER
AV	ACID VENT
AW	ACID WASTE
BFP	REDUCED PRESSURE BACKFLOW PREVENTER
BHP	BREAK HORSEPOWER
BSP	BLACK STEEL PIPE
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CELSIUS
CA	COMPRESSED AIR
CGA	COMPRESSED GAS ASSOCIATION
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
CV	CONTROL VALVE
DCW	DOMESTIC COLD WATER
DFU	DRAINAGE FIXTURE UNITS
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DHWS	DOMESTIC HOT WATER SUPPLY
DI	DEIONIZED WATER
DN	DOWN
DOE	DEPARTMENT OF ENERGY
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWR	DRINKING WATER RETURN
DWS	DRINKING WATER SUPPLY
DWV	DRAIN WASTE VENT
EL	ELEVATION
EMCS	ENERGY MONOSERRAT AND CENTRAL SYSTEM
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPACT	ENERGY POLICY ACT
ESC	ESCUTCHEON
ESH	EMERGENCY SHOWER
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
EWS	EYE WASH STATION
EWS/SH	EYEWASH/DRENCH SHOWER
EX	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FCW	FILTERED COLD WATER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT (HOSE) CONNECTION
FM	FLOW METER
FOP	FUEL OIL PUMP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FS	FLOOR SINK
FS	FLOW SWITCH
FU	FIXTURE UNITS
GAL	GALLON
GCO	GRADE CLEANOUTS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GRS	GAS REGULATOR STATION
GT	GREASE TRAP
GVTR	GAS VENT THROUGH ROOF
GWH	GAS FIRED WATER HEATER
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HD	HUB DRAIN
HEX	HEAT EXCHANGER
HP	HORSEPOWER
HS	HAND SINK
HST	HOT WATER STORAGE TANK (DOMESTIC)
HWB	HOT WATER BOILER
HWCP	HOT WATER CIRCULATING PUMP
HWP	HOT WATER PUMP
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
IRW	IRRIGATION WATER
IW	INDIRECT WASTE
IWH	INSTANTANEOUS WATER HEATER
IWR	INDUSTRIAL WATER RETURN
IWS	INDUSTRIAL WATER SUPPLY
KW	KILOWATT
KWH	KILOWATT-HOUR
L/S	LITER PER SECOND
LA	LABORATORY AIR
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LCW	LABORATORY COLD WATER
LHW	LABORATORY HOT WATER
LNG	LIQUID NATURAL GAS
LOX	LIQUID OXYGEN
LV	LABORATORY VACUUM
LW	LOW WATER
M	METER
MA	MEDICAL AIR
MAV	MANUAL AIR VENT
MBH	1000 BTUH
MED	MEDICAL
MER	MECHANICAL EQUIPMENT ROOM
MH	MANHOLE
MOU	MEMORANDUM OF UNDERSTANDING
MSB	MOP SERVICE BASIN
MV	MEDICAL VACUUM
N2	NITROGEN
N2O	NITROUS OXIDE
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM.	NOMINAL
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OR	OPERATING ROOM
OVFL	OVERFLOW
PA	PASCAL
PD	PRESSURE DROP OR DIFFERENCE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PG	PRESSURE GAGE
PP	PLUMBING PUMP
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG	POUNDS PER SQUARE INCH GAGE
PTRV	PRESSURE TEMPERATURE RELIEF VALVE
PW	POTABLE WATER
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
RL	ROOF LEADER
RP	RECIRCULATION PUMP
RO	REVERSE OSMOSIS WATER
RWL	RAIN WATER LEADER
SAN	SANITARY SEWER
SMACNA	SHEET METER AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SCFM	STANDARD CUBIC FOOT/MINUTE
SCW	SOFTENED COLD WATER
SDMH	STORM DRAIN MANHOLE
SMH	SANITARY MANHOLE
SP	SUMP PUMP
SPR	SPRINKLER LINE
SQFT/SF	SQUARE FEET
SS	STAINLESS STEEL
ST	STORAGE TANK
SW	STORM WATER
TCV	TEMPERATURE CONTROL VALVE
TD	TEMPERATURE DIFFERENCE
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TSTAT	THERMOSTAT
TWR	TEMPERED WATER RETURN
TWS	TEMPERED WATER SUPPLY
TYP	TYPICAL
V	VENT
VAC	VACUUM
VB	VACUUM BREAKER
VCO	VACUUM CLEANER OUTLET
VP	VACUUM PUMP
VS	VENT STACK
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WG	WATER GAGE
WH	WALL HYDRANT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTER
WL	WATER LINE
WM	WATER METER
WPD	WATER PRESSURE DROP
WS	WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNITS
YCO	YARD CLEANOUT
YH	YARD HYDRANT

GENERAL PLUMBING SYMBOLS

- 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 ELBOW UP
- PIPE ELBOW DOWN
- PIPE TEE DOWN
- PIPE TEE UP
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION
- INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
- FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES
- STRAINER
- THERMOMETER
- PRESSURE GAGE
- FE — FLOW ELEMENT
- CO — CLEANOUT
- HOSE BIB
- FD — FLOOR DRAIN
- (E) — EXISTING TO REMAIN
- (D) — EXISTING TO BE REMOVED

PLUMBING VALVE SYMBOLS

- GATE VALVE
- GLOBE VALVE
- GATE VALVE WITH 3/4 " HOSE ADAPTER
- CHECK VALVE
- 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
- AUTOMATIC FLOW CONTROL VALVE
- PRESSURE RELIEF VALVE
- MANUAL AIR VENT
- TEST PLUG (PRESSURE/TEMPERATURE)
- AV — AUTOMATIC AIR VENT

PLUMBING PIPING SYMBOLS

NOTE: SYMBOLS INDICATED BELOW ARE SHOWN AS EXISTING. PIPE SYMBOLS FOR NEW WORK WILL BE THE SAME EXCEPT SHOWN BOLD.

- DOMESTIC COLD WATER, COLD WATER
- DOMESTIC HOT WATER, HOT WATER
- DOMESTIC HOW WATER RETURN, HOT WATER RETURN
- CA — MEDICAL AIR (LOW PRESSURE)
- V — MEDICAL VACUUM
- HPA — MEDICAL AIR (HIGH PRESSURE)
- MPA — MEDICAL AIR (MEDIUM PRESSURE)
- VENT (SANITARY)
- SS — SOIL, WASTE, OR SANITARY SEWER
- SANITARY SEWER, BELOW GRADE
- SD — STORM WATER
- SD — STORM WATER, BELOW GRADE
- SCW — SOFTEN COLD WATER
- FCW — FILTERED COLD WATER
- DWS — DRINKING WATER SUPPLY
- DWR — DRINKING WATER RETURN
- TWS — TEMPERED WATER SUPPLY
- TWR — TEMPERED WATER RETURN
- N_20 — NITROUS OXIDE
- O — OXYGEN
- N_2 — NITROGEN
- NG — NATURAL GAS
- NG — NATURAL GAS, BELOW GRADE
- FOD — FUEL OIL DISCHARGE
- FOS — FUEL OIL SUPPLY
- FOV — FUEL OIL VENT
- FOR — FUEL OIL RETURN
- PIPE TO BE DEMOLISHED

DRAWING SYMBOLS

- 2 / PL105 — DETAIL NUMBER; DRAWING NUMBER WHERE DRAWN
- A / PL105 — SECTION LETTER; DRAWING NUMBER WHERE SHOWN
- 26-P 3 — BUILDING NO. WHERE EQUIPMENT IS LOCATED; EQUIPMENT ABBREVIATION (PUMP); PUMP NO.3 IN BUILDING NO.26; TYPICAL UNIT NO.

PLUMBING DRAWING LIST

P001	PLUMBING LEGENDS, ABBREVIATIONS AND NOTES
PD101	PLUMBING PLAN - DEMOLITION
PN101	PLUMBING PLAN - NEW WORK
P301	PLUMBING SCHEDULES AND DETAILS

PLUMBING GENERAL NOTES

GENERAL:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, INVERTS, PIPE SIZES AND MATERIALS, FLUID FLOW DIRECTION(S) AND CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING INSTALLATION OR FABRICATION WORK. (DO NOT SCALE DRAWINGS).
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES EVEN IF THE UTILITIES ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL REPAIR ALL DAMAGES AT THEIR OWN EXPENSE AND WILL BE RESPONSIBLE FOR ANY ADDITIONAL DAMAGES CAUSED BY A SYSTEM BEING DOWN.
3. THIS INSTALLATION WILL CONFORM TO ALL CODES AND THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES HAVING JURISDICTION.
4. INSTALL ALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS AND THE APPLICABLE CODES, STANDARDS AND REGULATIONS.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS ARE BEING OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY ON THE PREMISES, AND WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, TEMPORARY FENCES, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE COR AND ONGOING OPERATIONS AND WILL PROMPTLY BE RESTORED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.
6. ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE DONE IN ACCORDANCE WITH THE GOVERNING CODES, INDUSTRY STANDARDS AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.
7. WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED.
8. WORK ALL DRAWINGS WITH THE PROJECT SPECIFICATIONS.
9. UNLESS OTHERWISE NOTED, SUPPLY AND VENT PIPING SHOWN ON RESPECTIVE PLANS OCCURS ABOVE THE CEILING OF THAT FLOOR. SANITARY PIPING SHOWN OCCURS ABOVE THE CEILING OF THE FLOOR BELOW OR UNDER THE SLAB OF FLOORS ON GRADE.
10. PIPING RISING WITHIN A STORY IS DESIGNATED AS "RISE". PIPING RISING TO ANOTHER STORY IS NOTED AS "UP". PIPING DROPPING WITHIN A STORY IS NOTED AS "DROP". PIPING DROPPING TO ANOTHER STORY IS NOTED AS "DN".

PLUMBING NOTES:

1. ALL PIPING MATERIALS AND COMPONENTS INCLUDING FITTINGS, PIPE, FLANGES, VALVES, ETC. SHALL BE DESIGNATED, FABRICATED AND INSTALLED PER THE APPROPRIATE SECTIONS OF THE LATEST CODES, VETERAN'S AFFAIRS PLUMBING STANDARDS AND PROJECT CONTRACT DOCUMENTS.
2. SANITARY SEWERS 3" AND SMALLER SHALL SLOPE 1/4" PER FOOT (MIN.), ALL SANITARY SEWERS 4" AND LARGER SHALL SLOPE 1/8" PER FOOT (MIN.) IN THE DIRECTION OF FLOW.
3. ALL HORIZONTALLY ROUTED WASTE VENTS SHALL BE INSTALLED WITH A SLOPE TO FACILITATE GRAVITY DRAINAGE TO THE WASTE SYSTEM.
4. ALL CLEANOUTS INSTALLED IN THE SEWER SYSTEM SHALL BE SIZED AS FOLLOWS:

PIPE SIZE	SIZE OF CLEANOUT
2"	2"
2 1/2"	2 1/2"
3"	3"
4"-6"	4"

5. CLEANOUTS INSTALLED IN HORIZONTAL PIPING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 100'.
6. THE MAXIMUM VERTICAL DISTANCE FROM THE FIXTURE OUTLET (LAVATORY, FLOOR DRAIN, ETC.) TO THE TRAP WEIR SHALL BE 24".
7. SURFACES TO BE SOLDERED SHALL BE CLEANED BRIGHT. THE JOINTS SHALL BE PROPERLY FLUXED AND MADE WITH APPROVED SOLDER. SOLDER JOINTS FOR POTABLE WATER SHALL BE MADE WITH A SOLDER CONTAINING NOT MORE THAN 0.2 PERCENT LEAD.
8. UNIONS SHALL BE INSTALLED AT ALL EQUIPMENT. THE USE OF DIELECTRIC UNIONS AND FLANGES MUST BE INSTALLED IN AREAS WHERE JOINING OF DISSIMILAR METALS (I.E. CARBON STEEL TO COPPER OR BRONZE, ETC.) THIS IS TO FACILITATE PIPING REMOVAL AND REASSEMBLY FOR FUTURE MAINTENANCE WORK AND/OR PREVENT GALVANIC CORROSION.
9. PIPE SUPPORT SPACING SHALL BE IN ACCORDANCE WITH MSS SP-58.
10. ALL POTABLE WATER BRANCHES SHALL BE INSTALLED WITH ISOLATION VALVES CLOSE TO MAIN.
11. ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH WATER ISOLATION VALVES.
12. CONTRACTOR SHALL PROVIDE WALL ACCESS COVERS TO ALL CLEANOUTS AND VALVES LOCATED WITHIN WALLS.
13. ALL WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES SHALL BE PROTECTED IN ACCORDANCE WITH SPECIFICATIONS.
14. ALL PIPES OR TUBING WHICH PASS THROUGH RATED AND NON-RATED WALLS, FLOORS, AND FOUNDATION WALLS, SHALL PASS THROUGH A SCHEDULE 40 CARBON STEEL PIPE SLEEVE. SLEEVES WHICH PASS THROUGH MASONRY SHALL BE GALVANIZED COATED. ALL SLEEVES SHALL BE INSTALLED FLUSH ON BOTH SIDES OF WALL PENETRATION.
    NON-RATED WALLS: THE SLEEVE SHALL BE SIZED TO ALLOW FREE PASSAGE OF INSULATED AND NON-INSULATED PIPES AND TUBING.
    RATED WALLS: PIPES WHICH PASS THROUGH FIRE-RATED WALLS & FLOORS SHALL USE THE APPROPRIATE DETAILED INSTALLATION METHOD OF SEALING WHILE MAINTAINING THE INTEGRITY OF THE WALL'S FIRE RATING(S).
    EXTENSION WALLS & FOUNDATION: PIPES WHICH PASS THROUGH EXTENSION WALLS OR FOUNDATION WALLS SHALL BE SEALED AND MADE WEATHER-TIGHT.
15. INSULATE COLD AND HOT WATER PIPING PER THE PROJECT DOCUMENTS WITH FIRE RETARDANT VAPOR BARRIER JACKET. PIPE INSULATION SHALL BE SEALED WITH A FIRE RESISTIVE ADHESIVE.
16. CONTRACTOR IS RESPONSIBLE FOR ALL TESTING COORDINATION OF INSPECTIONS OF THE ENTIRE POTABLE WATER, SANITARY SEWER AND VENT SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE INTERNATIONAL PLUMBING CODE.
17. ALL PIPING AND VALVES SHALL BE PROPERLY IDENTIFIED, LABELED AND TAGGED. CONTRACTOR SHALL SUBMIT VALVE TAG LIST PER SPECIFICATIONS.
18. CONTRACTOR SHALL FLUSH AND DISINFECT THE ENTIRE POTABLE WATER SYSTEM. FLUSHING AND DISINFECTION OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE INTERNATIONAL PLUMBING CODE.
19. PROVIDE THREE (3) ELBOW SWING JOINTS FOR ALL DOMESTIC HOT WATER CONNECTIONS TO THE MAIN.
20. CONTRACTOR SHALL PROVIDE AND INSTALL THERMAL EXPANSION/CONTRACTION COMPENSATION IN THE DOMESTIC HOT WATER AND RECIRCULATION SYSTEMS, LIMITING THE MAXIMUM MOVEMENT TO 1 1/2" OR LESS. ANCHORS & RESTRAINTS SHALL BE INSTALLED WHERE NECESSARY. ALL PIPES SHALL BE PROPERLY GUIDED INTO THE THERMAL EXPANSION LOOPS OR COMPENSATORS.

NOTE:

PLUMBING DRAWINGS ARE BASED ON OBSERVED EXISTING/AS-BUILT CONDITIONS AND NOT ALL PIPING WAS ACCESSIBLE. CONTRACTOR SHALL VERIFY ALL PIPE SIZES AND LENGTHS.

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — JANE ALLEN BROWN — 24GE04258100 — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

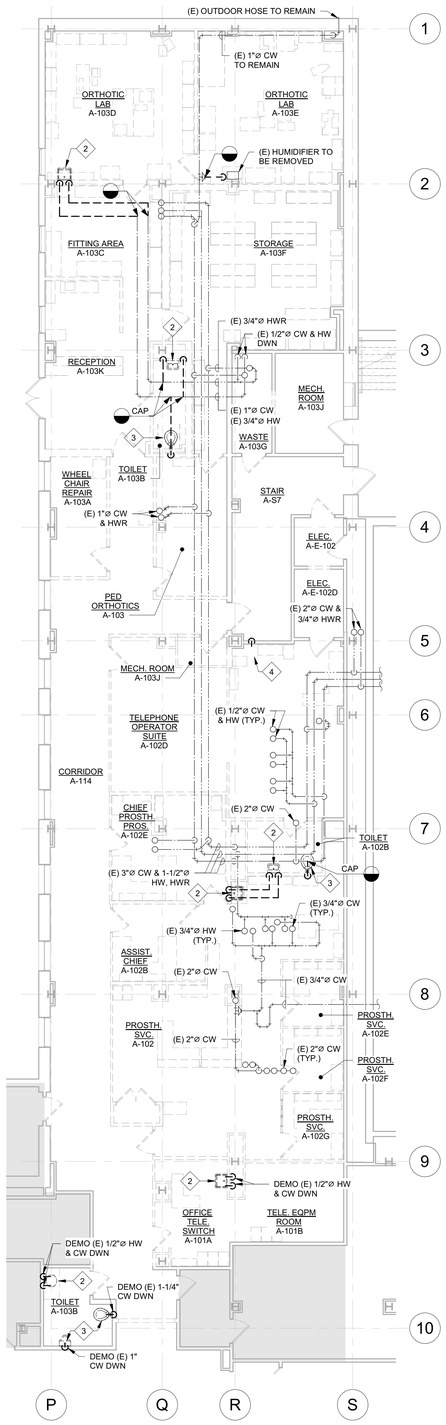
VA U.S. Department of Veterans Affairs

Drawing Title	PLUMBING ABBREVIATIONS, LEGENDS AND NOTES
Phase	FINAL BID DOCUMENTS
Project Title	UPGRADE PROSTHETIC LAB
Project Number	561-19-160
Building Number	1
Approved:	
	FULLY SPRINKLERED
Location	EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ
Issue Date	6/18/2021
Checked	DJW
Drawn	ACELA
Drawing Number	P001

VA FORM 08 - 6231

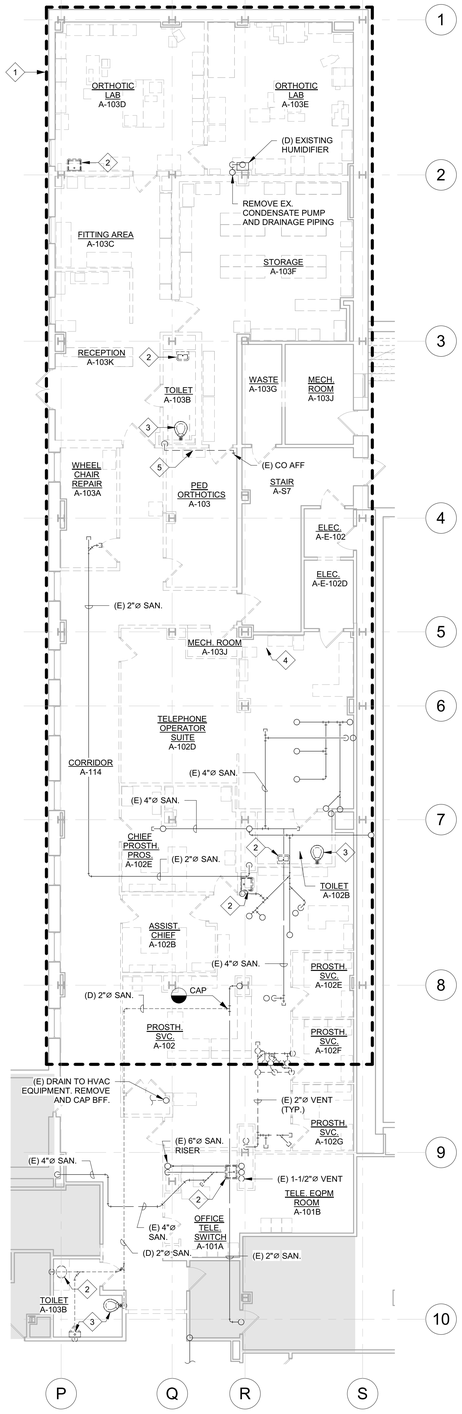
C:\Users\bzhang\ACELA\OneDrive - Acela Architects + Engineers, P:\Documents\20\USDVA-04 MEP_bzhang\YD4\Q.rvt

7/9/2021 2:22:36 PM



1 PLUMBING SUPPLY PLAN - DEMOLITION

1/8" = 1'-0"



2 PLUMBING SANITARY PLAN - DEMOLITION

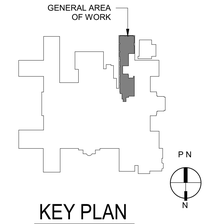
1/8" = 1'-0"

PLUMBING KEYED DEMOLITION NOTES

1. SANITARY PIPING IS LOCATED IN CRAWLSPACE BETWEEN LEVEL A AND LEVEL B. CONTRACTOR SHALL VERIFY ALL PIPE SIZES, LENGTHS AND ROUTING.
2. REMOVE EXISTING LAVATORY/SINK COMPLETELY. REMOVE ASSOCIATED CW, HW, SANITARY, AND VENT BACK TO ACTIVE MAINS (OR POINT INDICATED) AND CAP.
3. REMOVE EXISTING WATER CLOSET/URINAL COMPLETELY. REMOVE ASSOCIATED CW, SANITARY AND VENT BACK TO ACTIVE MAINS (OR POINT INDICATED) AND CAP.
4. REMOVE EXISTING DRINKING FOUNTAIN COMPLETELY. REMOVE ASSOCIATED CW, SANITARY AND VENT BACK TO ACTIVE MAINS (OR POINT INDICATED) AND CAP.
5. RELOCATE EXISTING PIPING CURRENTLY EXPOSED IN ROOM TO ABOVE NEW FINISH CEILING.

PLUMBING GENERAL DEMOLITION NOTES

1. ALL AREAS OF THE BUILDING AFFECTED BY PLUMBING DEMOLITION WORK SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT FINAL FINISHES. REPAIR WORK SHALL BE DONE TO VA STANDARDS.
2. DEMOLITION WORK SHALL INCLUDE REMOVAL OF EXISTING BUILDING CONSTRUCTION TO EXTENT REQUIRED TO PERFORM NEW CONSTRUCTION ACTIVITIES INDICATED.
3. REMOVE ALL EXISTING PLUMBING SYSTEM COMPONENTS, MATERIALS, APPARATUS, AND APPLIANCES WITHIN THE DESIGNATED PROJECT AREA, UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND OTHER PLUMBING CONTRACT DOCUMENTS FOR ADDITIONAL SCOPE OF WORK FOR SYSTEMS TO BE REMOVED OR RETAINED TO EXTENT REQUIRED TO PERFORM NEW CONSTRUCTION ACTIVITIES INDICATED. REMOVAL SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL ASSOCIATED PIPING, HANGERS, SUPPORTS, BRACING, VALVES, AND EQUIPMENT. PATCH EXISTING CONSTRUCTION WHERE ITEMS ARE REMOVED TO MATCH ADJACENT EXISTING FINISHES TO REMAIN.
4. THE DEMOLITION PROCEDURES SHALL PROVIDE FOR SAFE CONDUCT OF WORK, PROTECTION OF PERSONNEL, CAREFUL REMOVAL AND OTHER DISPOSITION OF MATERIALS SPECIFIED TO BE SALVAGED (IF ANY), PROTECTION OF PROPERTY TO REMAIN UNDISTURBED, COORDINATION WITH OTHER WORK IN PROGRESS, AND TIMELY DISCONNECTION OF UTILITY SERVICES.
5. EXISTING WORK SHALL BE CUT, DRILLED, ALTERED, REMOVED, OR TEMPORARILY REMOVED AND REPLACED FOR PERFORMANCE OF WORK UNDER THE CONTRACT. WORK REPLACED SHALL MATCH SIMILAR EXISTING CONSTRUCTION. STRUCTURAL MEMBERS OF CONCRETE OR STRUCTURAL STEEL SHALL NOT BE CUT OR ALTERED, EXCEPT AS SHOWN, WITHOUT AUTHORIZATION OF THE COR. WORK REMAINING IN PLACE DAMAGED OR DEFACED DURING THIS CONTRACT SHALL BE RESTORED TO THE CONDITION AT TIME OF AWARD OF CONTRACT.
6. REMOVE EXISTING PIPING INSULATION, NOT REMOVED BY ABATEMENT CONTRACTOR, FROM ALL CW, HW AND HWR PIPNG WITHIN THE PROJECT SCOPE OF WORK AREA.



KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · CHRISTOPHER ALLEN HERRON · 24GE04258100 · PROFESSIONAL ENGINEER

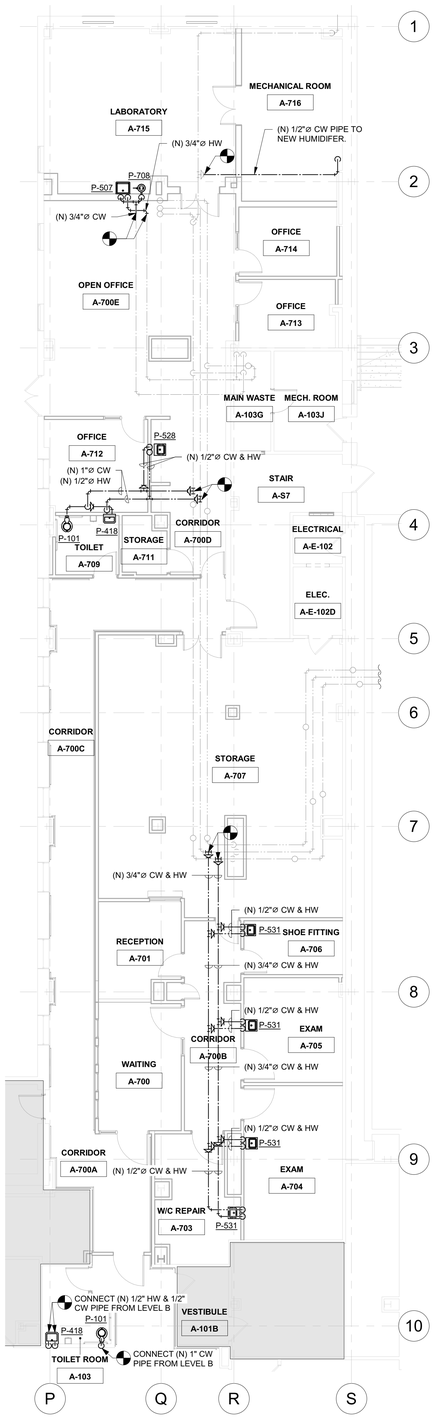
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

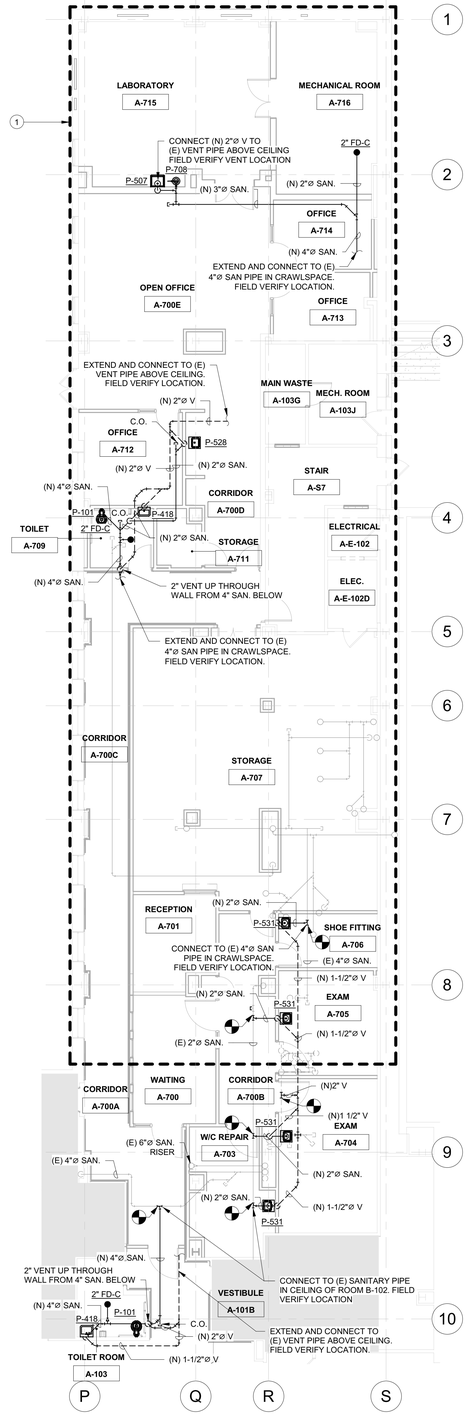
Drawing Title	PLUMBING PLAN - DEMOLITION
Phase	FINAL BID DOCUMENTS
Project Title	UPGRADE PROSTHETIC LAB
Project Number	561-19-160
Building Number	1
Approved:	
	FULLY SPRINKLERED
Location	EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ
Issue Date	6/18/2021
Checked	DJW
Drawn	ACELA
Drawing Number	PD101

VA FORM 08 - 6231

C:\Users\bzhang.ACELA\OneDrive - Acela Architects + Engineers, P C\Documents\20-USDVA-04 MEP_bzhangYDJ4Q.rvt 7/9/2021 2:22:41 PM



1 PLUMBING SUPPLY PLAN - NEW WORK
1/8" = 1'-0"



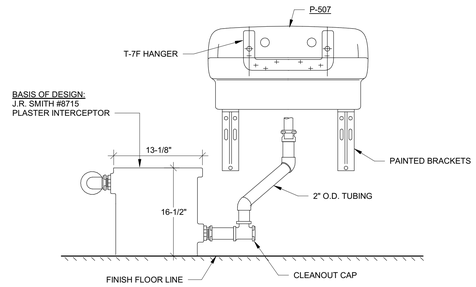
2 PLUMBING SANITARY PLAN - NEW WORK
1/8" = 1'-0"

PLUMBING KEYED NEW WORK NOTES

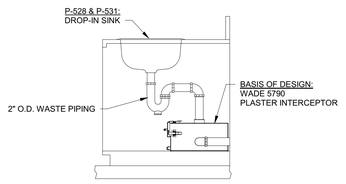
1. SANITARY PIPING IS LOCATED IN CRAWLSPACE BETWEEN LEVEL A AND LEVEL B. CONTRACTOR SHALL VERIFY ALL PIPE SIZES, LENGTHS AND ROUTING.

PLUMBING GENERAL NEW WORK NOTES

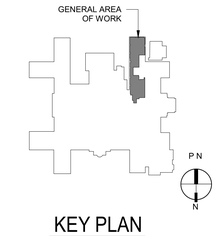
1. SEE SHEET P301 FOR PLUMBING DETAILS.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL VA, LOCAL AND STATE PLUMBING CODES FOR THE STATE OF NEW JERSEY.
3. MAKE CONNECTIONS BETWEEN EXISTING AND NEW PIPES WITH COMPRESSION FITTINGS.
4. WASTE, VENT, HOT, AND COLD PIPING ROUGH IN SHOWN FOR CLARITY. HOT AND COLD WATER PIPING SHALL BE RUN ABOVE CEILING AND DROP DOWN AT DESIGNATED LOCATIONS, WASTE LINES SHALL BE RUN THROUGH THE CRAWLSPACE LOCATED IN-BETWEEN LEVELS A AND B.
5. CONTRACTOR/OTHERS SHALL EXAMINE ALL PROJECT CONTRACT DOCUMENTS TO DETERMINE EXTENT OF WORK RELATED TO TRADES INVOLVED.
6. PROVIDE NEW VENT PIPING AT EACH NEW FIXTURE. CONNECT INTO EXISTING VENT PIPING HBU CEILING WHERE POSSIBLE.
7. ALL PLUMBING LINES LOCATED UNDER SINKS SHALL HAVE SCALD PROTECTION.
8. PROVIDE SHUT-OFF VALVES ON DOMESTIC HOT AND COLD WATER LINES AT ALL PLUMBING FIXTURES TO ALLOW FOR ISOLATION OF THE FIXTURE. SHUT-OFF VALVES SHALL ALSO BE PROVIDE ON DOMESTIC HOT AND COLD WATER LINES AT THE POINT OF CONNECTION TO THE EXISTING PLUMBING SYSTEM.
9. THE CONTRACTOR SHALL VERIFY THAT ALL PLUMBING PIPE SIZES AND PRESSURES MEET THE SPECIFICATIONS ON THE DRAWINGS.
10. WATER CLOSETS REQUIRE A MINIMUM COLD WATER PRESSURE OF 25 PSI.
11. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.
12. REINSULATE ALL CW, HW AND HWR PIPNG WITHIN THE PROJECT SCOPE OF WORK AREA.



3 P-507 SOLID INTERCEPTOR DETAIL
NTS



4 P-528 & P-531 SOLID INTERCEPTOR DETAIL
NTS



KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY
DAVID ALLEN BROWN
24GE04258100
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

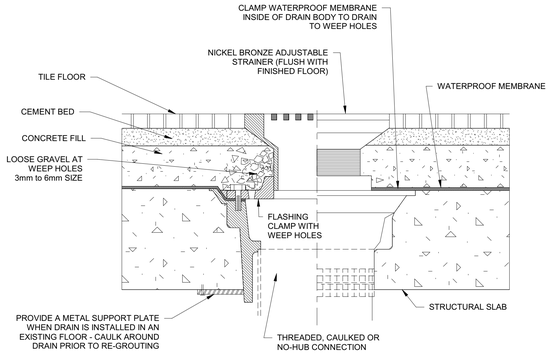
Drawing Title PLUMBING PLAN - NEW WORK	**Phase** FINAL BID DOCUMENTS	**Project Title** UPGRADE PROSTHETIC LAB	**Project Number** 561-19-160
Approved:	FULLY SPRINKLERED	**Location** EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ	**Building Number** 1
		Issue Date 6/18/2021 / **Checked** DJW / **Drawn** ACELA	**Drawing Number** PN101

Page 27 of 43

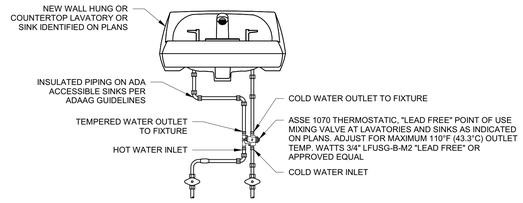
VA FORM 08 - 6231

C:\Users\bzhang.ACELA\OneDrive - Acela Architects + Engineers, P.C\Documents\20-USDVA-04 MEP_bzhangYDJ4Q.rvt

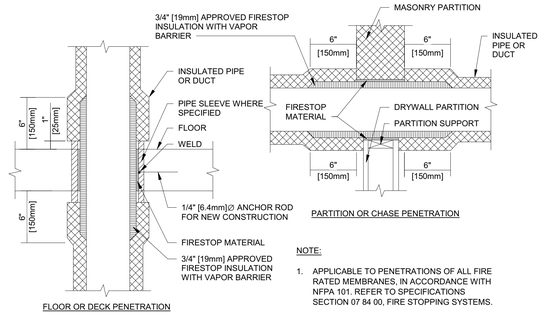
7/9/2021 2:22:43 PM



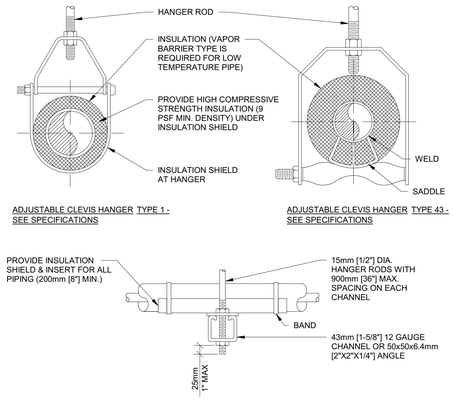
1 TYPE "C" FLOOR DRAIN DETAIL
NTS



2 TYPICAL POINT OF USE MIXING VALVE DETAIL
NTS

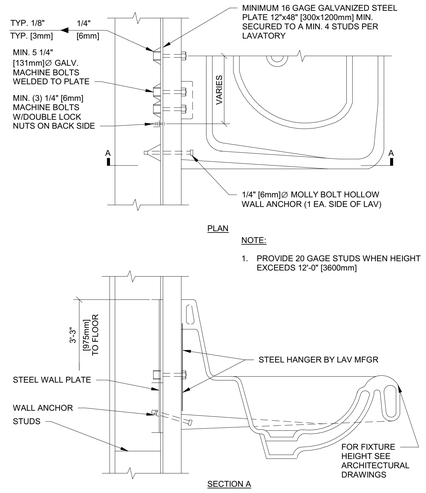


3 PIPE/DUCT PENETRATION OF SMOKE/FIRE BARRIERS
NTS

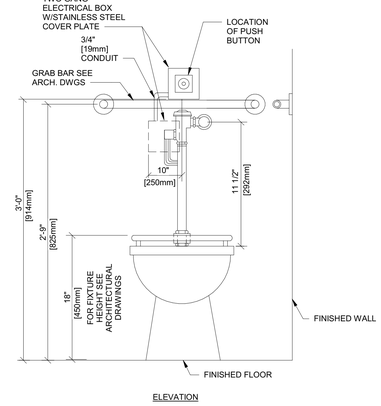


MAXIMUM PIPE/TUBING SUPPORT SPACING																		
NOM. SIZE	mm [IN]	THRU 20 [THRU 3/4]	25 [1]	32 [1-1/4]	40 [1-1/2]	50 [2]	65 [2-1/2]	75 [3]	100 [4]	125 [5]	150 [6]	200 [8]	250 [10]	300 [12]	350 [14]	400 [16]	450 [18]	500 [20]	600 [24]
PIPE	mm [FT]	2100 [7]	2100 [7]	2100 [7]	2700 [9]	3000 [10]	3400 [11]	3700 [12]	4100 [14]	4900 [16]	5200 [17]	5800 [19]	6700 [22]	7000 [23]	7600 [25]	8200 [27]	8500 [28]	9100 [30]	9600 [32]
TUBING	mm [FT]	1500 [5]	1800 [6]	2100 [7]	2400 [8]	2400 [8]	2700 [9]	3000 [10]	3700 [12]	4000 [13]	4100 [14]	4900 [16]	- -	- -	- -	- -	- -	- -	- -
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																			

4 PLUMBING PIPE HANGER DETAIL
NTS



5 LAVATORY MOUNTING DETAIL
NTS



6 P-101 WATER CLOSET DETAIL
NTS

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE PIPE		VENT PIPE		COLD WATER		HOT WATER		DRAINAGE FIXTURE UNITS	WATER FIXTURE UNITS	ELECTRIC SENSOR	BASIS OF DESIGN	REMARKS
		IN	[mm]	IN	[mm]	IN	[mm]	IN	[mm]					
P-101	WATER CLOSET	3	[75]	2	[50]	1.0	[25]	----	----	4	10	YES	AMERICAN STANDARD MODEL 3461.001 W/ SLOAN ROYAL MODEL 111 ESS-1.28-OR-HW FLUSH VALVE	FLOOR MOUNTED (ADA)
P-418	LAVATORY	1.5	[40]	1.5	[40]	.5	[13]	.5	[13]	1	2	YES	SLOAN MODEL SS-3003 W/ SLOAN MODEL ETF-600-BOX-BDN -CP-0.5GPM-MLM-IR-FCT FAUCET AND TRUBRO MODEL 2018SLSS3003 LAV SHIELD	WALL MOUNTED
P-507	PLASTER SINK	2	[50]	1.5	[40]	.5	[13]	.5	[13]	3	4	NO	AMERICAN STANDARD MODEL 9061.193 W/ J.R. SMITH MODEL 6715 PLASTER TRAP AND ELAKY MODEL LK940AT10T4H FAUCET	WALL MOUNTED WITH PLASTER TRAP
P-528	KITCHEN SINK	2	[50]	1.5	[40]	.5	[13]	.5	[13]	3	2	NO	ELKAY MODEL LRAD221955 W/ ELKAY MODEL LK800GN08T4 FAUCET W/ WADE MODEL 5790 PLASTER TRAP	COUNTER MOUNTED
P-531	EXAM SINK	1.5	[40]	1.5	[40]	.5	[13]	.5	[13]	1	2	NO	ELKAY MODEL LRAD191865 W/ ELKAY MODEL LK800GN08T4 FAUCET W/ WADE MODEL 5790 PLASTER TRAP	COUNTER MOUNTED
P-708	EMERG. EYEWASH	1.25	[32]	1.25	[32]	.5	[13]	.5	[13]	----	----	N/A	BRADLEY MODEL S19224Y W/ NAVIGATOR MODEL S19-200 EFX8 THERMOSTATIC MIXING VALVE	WALL MOUNTED WITH FOOT PEDAL. SEE NOTE 1

NOTES:
1. EMERGENCY EYEWASH EQUIPMENT SHALL MEET ANSI Z358.1, "AMERICAN NATIONAL STANDARD FOR EMERGENCY EYEWASH AND SHOWER EQUIPMENT". PROVIDE AN ASSE 1071 COMPLIANT MIXING VALVE FOR THE TEPID WATER SUPPLY.
2. PROVIDE WALL CARRIERS FOR ALL WALL MOUNTED SINKS PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
3. PROVIDE TALL GOOSE-NECK FAUCET FOR EXAM AND LAB SINKS.

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD
acela architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY DAVID ALLEN BROWN 24GE04258100 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	PLUMBING SCHEDULES AND DETAILS
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	UPGRADE PROSTHETIC LAB
Location	EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ
Issue Date	6/18/2021
Checked	DJW
Drawn	ACELA
Project Number	561-19-160
Building Number	1
Drawing Number	P301

C:\Users\tzhang.ACELA\OneDrive - Acela Architects + Engineers, P:\CIDocuments\20-U5\DVA-04 MEP_tzhang\YDJ4Q.rvt
7/9/2021 2:22:39 PM
VA FORM 08 - 6231

MECHANICAL ABBREVIATIONS

A	AREA
ACCU	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AF	AIR FILTER
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AMPS	AMPERES
AMS	AIRFLOW MEASURING STATION
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROLS
B	BOILER
BB	BASEBOARD
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT/HR
CC	COOLING COIL
CD	CONDENSATE DRAIN
CENTRIF	CENTRIFUGAL
CFM	CUBIC FEET PER MINUTE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
COND	CONDENSATE
(S)CP	CONDENSATE PUMP/RECFEIVER
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	CITY WATER
D	DEPTH AND/OR DROP
DB	DRY BULB
DW	DOMESTIC WATER
DIA	DIAMETER
DN	DOWN
DP	DEW POINT
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD
EF	EXHAUST FAN
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
F&T	FLOAT & THERMOSTATIC TRAP
FCU	FAN COIL UNIT
FD	DAMPER FIRE
FL	FUSIBLE LINK
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSD	FIRE/SMOKE DAMPER
FT	FEET
FT HD	FOOT HEAD
FV	FACE VELOCITY
GA	GAUGE
GPM	GALLONS PER MINUTE
H2O	WATER
HC	HEATING COIL
HD	HEAD
HP	HORSEPOWER
HT	HEIGHT
H	HUMIDISTAT AND/OR HUMIDIFIER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IN	INCHES
KVA	KILOVOLT AMPERE
KW	KILOWATTS
L	LENGTH AND/OR LOUVER
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LP	LIQUID PROPANE
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU/HOUR
MIN	MINIMUM
MU	MAKEUP WATER
NEG	NEGATIVE
NG	NATURAL GAS
NO.	NUMBER
NTS	NOT TO SCALE
O.A.	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
P	PUMP
PH	PHASE
PNL	PANEL
POS	POSITIVE
PRESS	PRESSURE
PRV	PRESSURE REDUCING/RELIEF VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GUAGE
R	RISE
R.A.	RETURN AIR
RCP	RADIANT CEILING PANEL
REC	RECEIVER
RECIP	RECIPROCATING
REFR	REFRIGERANT
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RR	REGISTER RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
S	SWITCH, SENSOR AND/OR SMOKE DETECTOR
SAN	SANITARY WASTE
SD	SMOKE DAMPER
SENS	SENSIBLE
SF	SUPPLY FAN
SG	SPECIFIC GRAVITY
SP	STATIC PRESSURE
T	THERMOSTAT AND/OR TRAP (STEAM)
TEMP	TEMPERATURE
TONS	TONS OF REFRIGERATION
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
UH	UNIT HEATER
V	VOLTS
VAV	VARIABLE AIR VOLUME
VP	VELOCITY PRESSURE
W	WIDTH
WB°	WET BULB
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
WT	WEIGHT

AIR MOVING DEVICES AND COMPONENTS

SYMBOL	DESCRIPTION
	DUCTWORK EXISTING (ABOVE CEILING UNLESS NOTED OTHERWISE)
	DUCTWORK - DEMOLITION
	DUCTWORK - NEW WORK
	SUPPLY DUCT RISER
	RETURN DUCT RISER
	EXHAUST DUCT RISER
R	CHANGE OF ELEVATION RISE (R) DROP (D)
10x10 AD	ACCESS DOORS, VERTICAL OR HORIZONTAL
10"∅ 12x12	DUCT SECTION, NEGATIVE PRESSURE TYPICAL ASSEMBLY
20x10 15x8	TRANSITION
	DUCT ELBOW WITH TURNING VANES
BDD	BACK DRAFT DAMPER
M	MOTOR OPERATED DAMPER
FSD	COMBINATION FIRE & SMOKE DAMPER
FD AD	FIRE DAMPER
FD	FIRE DAMPER
	VOLUME DAMPER
	MANUAL DUCT SPLITTER
SD AD	SMOKE DAMPER (PROVIDE ACCESS DOOR)
	DUCT HEATER
AD	DUCT ACCESS DOOR
S	DUCT SMOKE DETECTOR

PIPING LEGEND

SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CD	CONDENSATE DRAIN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LPR	LOW PRESSURE STEAM RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
T	STEAM TRAP

TYPICAL ANNOTATIONS

SYMBOL	DESCRIPTION
1	KEYED DEMOLITION NOTE
1	KEYED NEW WORK NOTE
	REVISION CLOUD
#	REVISION TAG
T	SPACE THERMOSTAT
H	HUMIDITY SPACE SENSOR
S	SMOKE DETECTOR FOR LOCATION ONLY. SEE ELECTRICAL DWGS.

EQUIPMENT TAG LEGEND

SYMBOL	DESCRIPTION
EQ 1	EQUIPMENT TAG NO. 1 EQUIPMENT NO. 1
(A) 100 CFM	TYPE (A) SUPPLY DIFFUSER/GRILL - 100 CFM
(B) 100 CFM	TYPE (B) SUPPLY DIFFUSER/GRILL - 100 CFM
(C) 100 CFM	TYPE (C) SUPPLY DIFFUSER/GRILL - 100 CFM
(D) 100 CFM	TYPE (D) EXHAUST/RETURN REGISTER/GRILL - 100 CFM
(E) 100 CFM	TYPE (E) EXHAUST/RETURN REGISTER/GRILL - 100 CFM
(F) 100 CFM	TYPE (F) EXHAUST/RETURN REGISTER/GRILL - 100 CFM

GENERAL HVAC NOTES

1. COORDINATE WORK WITH THE WORK OF ALL OTEHR TRADES. COORDINATE THE LOCATION OF ALL EQUIPMENT, LOUVERS, WALL OPENINGS WITH OTHER TRADES, ARCHITECTURAL FLOOR PLANS, ELEVATIONS, SECTIONS, DETAILS AND STRUCTURAL SUPPORTS.
2. PRIOR TO SUBMITTIONS SHOP DRAWINGS, CHECK AND VERIFY AIR TERMINAL CONTROL DEVICES AND COORDINATE INSTALLATION REQUIREMENTS WITH THE ROOM FINISH SCHEDULES PROVIDED IN GENERAL CONSTRUCTION DOCUMENTS.
3. DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT AND ASSOCIATED APPURTENANCES NO LONGER REQUIRED, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS.
4. ALL EQUIPMENT PADS INDICATED ON THE HVAC DRAWINGS SHALL BE PROVIDED BY THIS CONTRACTOR, UNLESS OTHERWISE NOTED.
5. COORDINATE PARTITION AND BUILDING ENVELOPE OPENINGS REQUIRED FOR THE INSTALLATION OF THIS CONTRACT WORK WITH THE WORK OF OTHER CONTRACTORS.
6. ALL PIPING, CONDUIT, DUCTWORK AND OTHER PENETRATIONS REQUIRED THROUGH THE BUILDING PARTITIONS OR THE BUILDING ENVELOPE SHALL BE SEALED IN A WEATHERPROOF AND WATERTIGHT MANNER, UNLESS OTHERWISE NOTED.
7. REVIEW THE GENERAL CONSTRUCTION DOCUMENTS TO COORDINATE THE TYPE OF SEAL REQUIRED RELATIVE TO THE PARTITION CONSTRUCTION, I.E.: FIRE RATED PARTITION, SMOKE-RATED PARTITIONS, COMBINATION THEREOF OR NON-RATED PARTITION.
8. SEALS THROUGH SMOKE RATED PARTITIONS SHALL PREVENT SMOKE PASSAGE, INCLUDES ALL PARTITIONS NOTED AS SMOKE-BARRIERS OR ONE-HOUR WALLS. THE WALLS MUST COMPLY WITH THE REQUIREMENTS FOR SMOKE-BARRIER WALLS AS DESCRIBED IN THE LIFE SAFETY CODE, NFPA 101 AND, IN ADDITION, BE ONE-HOUR FIRE-RATED.
9. DUCT ACCESS DOORS SHALL BE PROVIDED AT ALL DAMPER, COIL, HUMIDIFIER, FILTER OR BARRED SECURITY GRATE LOCATIONS.
10. DUCT ACCESS PANELS SHALL BE NOMINALLY TWO INCHES SMALLER THAN THE OUTSIDE EDGE OF THE DUCT DIMENSION TO FACILITATE REMOVAL OF DEVICE IN THE DUCTWORK.
11. COORDINATE ROUGH OPENINGS AND FRAMING REQUIREMENTS FOR ACCESS PANELS AS REQUIRED OR SHOWN ON ARCHITECTURAL DRAWINGS. ACCESS DOORS SHALL BE PROVIDED IN THESE PARTITIONS OR CEILINGS WHEREVER VALVES, DUCT ACCESS DOORS, DAMPERS, TERMINAL UNITS OR EQUIPMENT REQUIRING SERVICING OR ADJUSTMENT ARE CONCEALED BEHIND PARTITIONS OR CEILINGS. COORDINATE LOCATIONS OF ALL ACCESS DOORS AND KEYING SYSTEMS.
12. ALL DUCTWORK IN AREAS WITHOUT CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE, UNLESS OTHERWISE NOTED.
13. ALL DIMENSIONS AND NEW CONDITIONS SHALL BE CHECKED AND VERIFIED AT THE STIE BY THE CONTRACTOR.
14. REFERENCE INDICATED DIMENSIONS. DO NOT SCALE DRAWINGS. RESOLVE ANY DISCREPANCIES WITH THE PROFESSIONAL BEFORE BEGINNING WORK.
15. VERIFY ALL DIMENSIONS AND INSPECT CONDITIONS OF PRIOR WORK BY ALL TRADES BEFORE PROCEEDING WITH ANY WORK. UNACCEPTABLE OR INCORRECT PRIOR WORK SHALL BE REPAIRED OR REPLACED BEFORE STARTING WORK. PROCEEDING WITH THE WORK SHALL CONSTITUTE ACCEPTANCE OF PRIOR WORK.
16. THERMOSTATS AND ALL OTHER WALL MOUNTED MECHANICAL ACCESSORIES SHALL BE ALIGNED VERTICALLY OR HORIZONTALLY WITH ALL ELECTRICAL OUTLETS, COMPUTER AND TELEPHONE OUTLETS/JACKS, SWITCHES, PULL STATIONS, EXIT LIGHTS, WHEN IN CLOSE PROXIMITY. COORDINATION OF THIS ALIGNMENT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION MANAGER AND ALL CONTRACTORS, AND LOCATIONS SHALL BE APPROVED BY THE ARCHITECT.
17. COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, GRILLES, CEILING MOUNTED FANS AND HEATERS WITH ARCHITECTURAL REFLECTED CEILINGS PLANS, LIGHT FIXTURES, SPRINKLERS, ETC.
18. DUCTWORK SHALL NOT BE FABRICATED OR INSTALLED UNLESS FIRST COORDINATED WITH OTHER TRADES AND CONDITIONS, AND CONFLICTS HAVE BEEN RESOLVED, COORDINATED AND INDICATED ON DUCT SHOP DRAWINGS. CHANGES REQUIRED FROM FAILURE TO DO SO, SHALL BE AT THE CONTRACTOR'S EXPENSE.
19. ALL DUCT SIZES INDICATED ARE NET FREE AREA. ADD 2" CLEARANCE FOR EXTERIOR INSULATION ON INSULATED DUCTS WHEN COORDINATING SPACE REQUIREMENTS.
20. CONFRIM EXACT STRUCTURAL REQUIREMENTS FOR THE MOUNTING AND SUPPORT OF ALL ACTUAL EQUIPMENT, PIPING AND DUCTWORK SUBMITTED AND APPROVED TO BE INSTALLED, WITH STRUCTURAL ENGINEER. ALL MOUNTING DETAILS INDICATED ON MECHANICAL DRAWINGS ARE INTENDED TO CONVEY A GENERAL MEANS OF SUPPORT.
21. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL OFFSETS, BENDS, ACCESS PANELS AND SIMILAR PARTS, WHICH MAY BE REQUIRED, THE CONTRACTOR SHALL INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AND CEILING HEIGHTS AFFECTING HIS WORK AND PROVIDE ALL NECESSARY OFFSETS, FITTINGS, ACCESS PANELS AND SIMILAR ACCESSORIES THAT MAY BE REQUIRED TO PROVIDE A COMPLETE AND OPERATING INSTALLATION AT NO ADDITIONAL COSTS TO THE OWNER.
22. PROVIDE FIRE STOPS FOR ALL PIPING AND DUCTWORK PENETRATIONS USING U.L. RATED ASSEMBLIES.
23. PROVIDE FIRE DAMPERS AND DUCT ACCESS DOORS AT ALL 2 HOUR FIRE RATED WALL PENETRATIONS, REFER TO ARCHITECTURAL DRAWINGS INDICATING ALL FIRE WALL ASSEMBLIES.
24. FURNISH AND INSTALL ALL MECHANICAL SYSTEMS IN ACCORDANCE WITH VA STANDARDS AND GUIDELINES, AND MANUFACTURER'S RECOMMENDED INSTALLATION RECOMMENDATIONS.
25. REPLACE ALL EXISTING PIPING INSULATION REMOVED UNDER ABATEMENT SCOPE OF WORK. COORDINATE SCOPE OF WORK WITH ABATEMENT CONTRACTOR.

MECHANICAL DRAWING LIST

M001	MECHANICAL LEGENDS, ABBREVIATIONS AND NOTES
MH101	MECHANICAL DEMOLITION AND NEW WORK HVAC & PIPING PLANS
MH201	MECHANICAL DETAILS
MH202	MECHANICAL DETAILS
MH203	MECHANICAL DETAILS
MH301	MECHANICAL SCHEDULES
MI401	MECHANICAL CONTROLS

7/9/2021 1:30:09 PM

C:\Users\tborger\Documents\20-USDVA-04 MEP_tborgerSKHYN.rvt

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers

acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103

office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · DAVID ALLEN BROWN · 24GE04258100 · REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL LEGENDS, ABBREVIATIONS AND NOTES	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETIC LAB	Project Number: 561-19-160
Approved:			Building Number: 1
	FULLY SPRINKLERED	Location: EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ	Drawing Number: M001
		Issue Date: 6/18/2021 · Checked: DJW · Drawn: ACELA	Page 29 of 43

VA FORM 08 - 6231

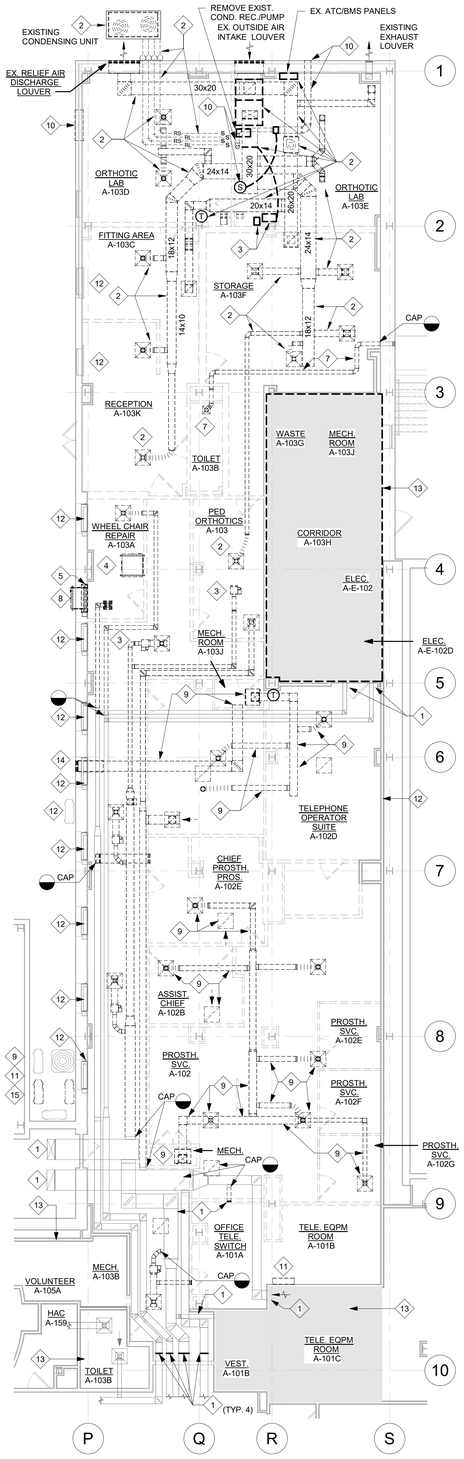
MECHANICAL GENERAL DEMOLITION NOTES

1. COORDINATE DEMOLITION WITH NEW WORK AND OTHER TRADES.
2. COORDINATE EXACT EXTENTS OF DEMOLITION AND TERMINATION POINTS OF DEMOLITION WITH THE NEW SCOPE OF WORK REQUIREMENTS.
3. COORDINATE ELECTRICAL TERMINATIONS WITH ELECTRICAL CONTRACTOR.

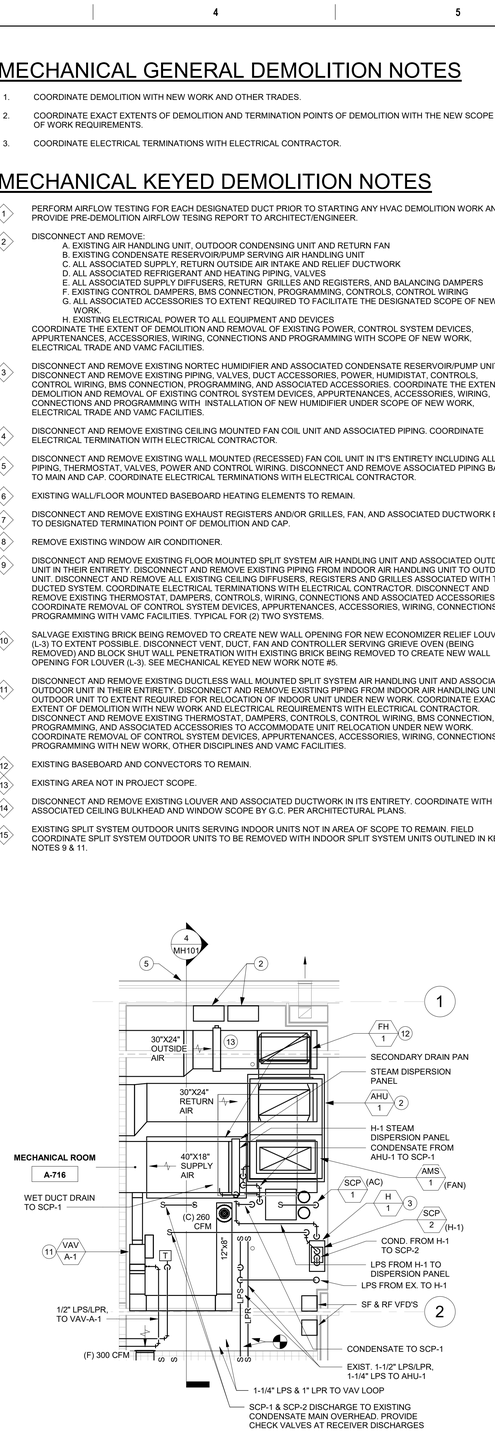
MECHANICAL KEYED DEMOLITION NOTES

1. PERFORM AIRFLOW TESTING FOR EACH DESIGNATED DUCT PRIOR TO STARTING ANY HVAC DEMOLITION WORK AND PROVIDE PRE-DEMOLITION AIRFLOW TESING REPORT TO ARCHITECT/ENGINEER.
2. DISCONNECT AND REMOVE:
   A. EXISTING AIR HANDLING UNIT, OUTDOOR CONDENSING UNIT AND RETURN FAN
   B. EXISTING CONDENSATE RESERVOIR/PUMP SERVING AIR HANDLING UNIT
   C. ALL ASSOCIATED SUPPLY, RETURN OUTSIDE AIR INTAKE AND RELIEF DUCTWORK
   D. ALL ASSOCIATED REFRIGERANT AND HEATING PIPING, VALVES
   E. ALL ASSOCIATED SUPPLY DIFFUSERS, RETURN GRILLES AND REGISTERS, AND BALANCING DAMPERS
   F. EXISTING CONTROL DAMPERS, BMS CONNECTION, PROGRAMMING, CONTROLS, CONTROL WIRING
   G. ALL ASSOCIATED ACCESSORIES TO EXTENT REQUIRED TO FACILITATE THE DESIGNATED SCOPE OF NEW WORK.
   H. EXISTING ELECTRICAL POWER TO ALL EQUIPMENT AND DEVICES

   COORDINATE THE EXTENT OF DEMOLITION AND REMOVAL OF EXISTING POWER, CONTROL SYSTEM DEVICES, APPURTENANCES, ACCESSORIES, WIRING, CONNECTIONS AND PROGRAMMING WITH SCOPE OF NEW WORK, ELECTRICAL TRADE AND VAMC FACILITIES.
3. DISCONNECT AND REMOVE EXISTING NORTEC HUMIDIFIER AND ASSOCIATED CONDENSATE RESERVOIR/PUMP UNIT. DISCONNECT AND REMOVE EXISTING PIPING, VALVES, DUCT ACCESSORIES, POWER, HUMIDISTAT, CONTROLS, CONTROL WIRING, BMS CONNECTION, PROGRAMMING, AND ASSOCIATED ACCESSORIES. COORDINATE THE EXTENT OF DEMOLITION AND REMOVAL OF EXISTING CONTROL SYSTEM DEVICES, APPURTENANCES, ACCESSORIES, WIRING, CONNECTIONS AND PROGRAMMING WITH INSTALLATION OF NEW HUMIDIFIER UNDER SCOPE OF NEW WORK, ELECTRICAL TRADE AND VAMC FACILITIES.
4. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED FAN COIL UNIT AND ASSOCIATED PIPING. COORDINATE ELECTRICAL TERMINATION WITH ELECTRICAL CONTRACTOR.
5. DISCONNECT AND REMOVE EXISTING WALL MOUNTED (RECESSED) FAN COIL UNIT IN IT'S ENTIRETY INCLUDING ALL PIPING, THERMOSTAT, VALVES, POWER AND CONTROL WIRING. DISCONNECT AND REMOVE ASSOCIATED PIPING BACK TO MAIN AND CAP. COORDINATE ELECTRICAL TERMINATIONS WITH ELECTRICAL CONTRACTOR.
6. EXISTING WALL/FLOOR MOUNTED BASEBOARD HEATING ELEMENTS TO REMAIN.
7. DISCONNECT AND REMOVE EXISTING EXHAUST REGISTERS AND/OR GRILLES, FAN, AND ASSOCIATED DUCTWORK BACK TO DESIGNATED TERMINATION POINT OF DEMOLITION AND CAP.
8. REMOVE EXISTING WINDOW AIR CONDITIONER.
9. DISCONNECT AND REMOVE EXISTING FLOOR MOUNTED SPLIT SYSTEM AIR HANDLING UNIT AND ASSOCIATED OUTDOOR UNIT IN THEIR ENTIRETY. DISCONNECT AND REMOVE EXISTING PIPING FROM INDOOR AIR HANDLING UNIT TO OUTDOOR UNIT. DISCONNECT AND REMOVE ALL EXISTING CEILING DIFFUSERS, REGISTERS AND GRILLES ASSOCIATED WITH THIS DUCTED SYSTEM. COORDINATE ELECTRICAL TERMINATIONS WITH ELECTRICAL CONTRACTOR. DISCONNECT AND REMOVE EXISTING THERMOSTAT, DAMPERS, CONTROLS, WIRING, CONNECTIONS AND ASSOCIATED ACCESSORIES. COORDINATE REMOVAL OF CONTROL SYSTEM DEVICES, APPURTENANCES, ACCESSORIES, WIRING, CONNECTIONS AND PROGRAMMING WITH VAMC FACILITIES. TYPICAL FOR (2) TWO SYSTEMS.
10. SALVAGE EXISTING BRICK BEING REMOVED TO CREATE NEW WALL OPENING FOR NEW ECONOMIZER RELIEF LOUVER (L-3) TO EXTENT POSSIBLE (DISCONNECT VENT, DUCT, FAN AND CONTROLLER SERVING GREVE OVEN (BEING REMOVED) AND BLOCK SHUT WALL PENETRATION WITH EXISTING BRICK BEING REMOVED TO CREATE NEW WALL OPENING FOR LOUVER (L-3). SEE MECHANICAL KEYED NEW WORK NOTE #5.
11. DISCONNECT AND REMOVE EXISTING DUCTLESS WALL MOUNTED SPLIT SYSTEM AIR HANDLING UNIT AND ASSOCIATED OUTDOOR UNIT IN THEIR ENTIRETY. DISCONNECT AND REMOVE EXISTING PIPING FROM INDOOR AIR HANDLING UNIT TO OUTDOOR UNIT TO EXTENT REQUIRED FOR RELOCATION OF INDOOR UNIT UNDER NEW WORK. COORDINATE EXACT EXTENT OF DEMOLITION WITH NEW WORK AND ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. DISCONNECT AND REMOVE EXISTING THERMOSTAT, DAMPERS, CONTROLS, CONTROL WIRING, BMS CONNECTION, PROGRAMMING, AND ASSOCIATED ACCESSORIES TO ACCOMMODATE UNIT RELOCATION UNDER NEW WORK. COORDINATE REMOVAL OF CONTROL SYSTEM DEVICES, APPURTENANCES, ACCESSORIES, WIRING, CONNECTIONS AND PROGRAMMING WITH NEW WORK, OTHER DISCIPLINES AND VAMC FACILITIES.
12. EXISTING BASEBOARD AND CONVECTORS TO REMAIN.
13. EXISTING AREA NOT IN PROJECT SCOPE.
14. DISCONNECT AND REMOVE EXISTING LOUVER AND ASSOCIATED DUCTWORK IN ITS ENTIRETY. COORDINATE WITH ASSOCIATED CEILING BULKHEAD AND WINDOW SCOPE BY G.C. PER ARCHITECTURAL PLANS.
15. EXISTING SPLIT SYSTEM OUTDOOR UNITS SERVING INDOOR UNITS NOT IN AREA OF SCOPE TO REMAIN. FIELD COORDINATE SPLIT SYSTEM OUTDOOR UNITS TO BE REMOVED WITH INDOOR SPLIT SYSTEM UNITS OUTLINED IN KEYED NOTES 9 & 11.



1 MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"



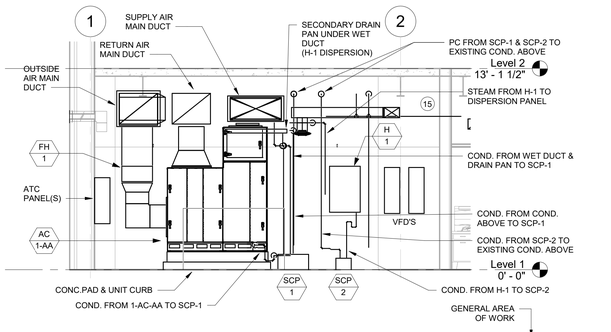
3 MECHANICAL NEW WORK PLAN - ENLARGED
1/4" = 1'-0"

MECHANICAL GENERAL NEW WORK NOTES

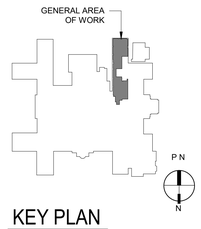
1. COORDINATE HVAC NEW WORK WITH DEMOLITION AND OTHER TRADES.
2. THE EXACT EXTENTS OF DEMOLITION AND TERMINATION POINTS OF DEMOLITION SHALL BE DETERMINED BY NEW SCOPE OF WORK REQUIREMENTS.
3. PROVIDE BALANCING DAMPERS FOR EACH INDIVIDUAL DIFFUSER, REGISTER OR GRILLE FOR BALANCING. INSTALL IN BRANCH DUCT OR TAKEOFF TO EACH DEVICE. PROVIDE NECK MOUNTED BALANCING DAMPERS ONLY FOR DIFFUSERS, REGISTERS OR GRILLES WITH LIMITED DUCT ACCESS ACCOMMODATIONS, LIMITED OR OBSTRUCTED ACCESS FOR DAMPER ADJUSTMENT.
4. TRAP ALL CONDENSATE DISCHARGE PIPING AT EQUIPMENT AND PITCH TO CONDENSATE PUMPS/RECEIVERS IN DIRECTION OF FLOW. PROVIDE VENT PIPE TO EXTERIOR AND OVERLOW PIPING TO ADJACENT FLOOR DRAINS FOR CONDENSATE PUMP RECEIVERS.
5. PITCH ALL LPS/LPR CONTINUOUSLY WITHOUT ISOLATED, UNTRAPPED LOW POINTS.
6. SLEEVE AND SEAL ALL DUCT AND PIPING PENETRATIONS IN FIRE RATED PARTITONS.
7. REPLACE EXISTING PIPING INSULATION REMOVED UNDER ABATEMENT SCOPE OF WORK. COORDINATE SCOPE OF WORK WITH ABATEMENT CONTRACTOR.

MECHANICAL KEYED NEW WORK NOTES

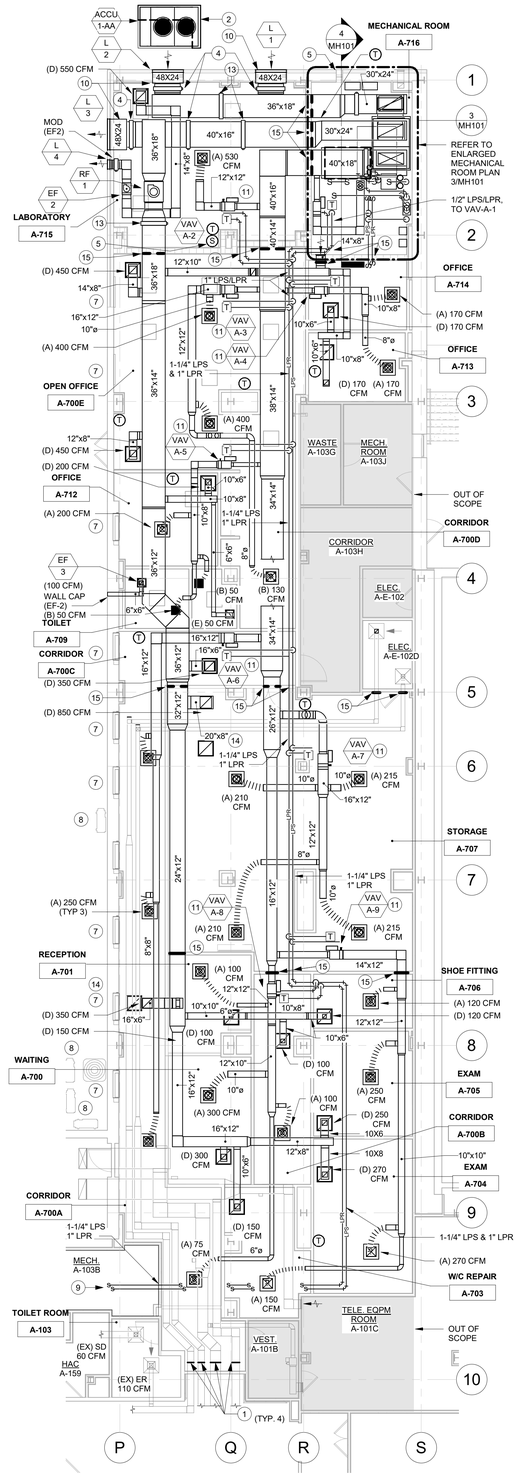
1. REBALANCE EXISTING DUCTWORK TO MATCH AIRFLOWS FROM PRE-DEMOLITION AIRFLOW TESTING.
2. FURNISH AND INSTALL NEW AIR HANDLING UNIT AT NEW DESIGNATED LOCATION. PROVIDE NEW DUCT CONNECTIONS FOR SUPPLY, RETURN, RELIEF AND OUTSIDE AIR AS SHOWN. INSTALL UNIT ON 6" CONCRETE EQUIPMENT PAD. INSTALL UNIT ON EXTENDED BASE RAIL OR CURB AS REQUIRED TO PROVIDE ADEQUATE HEIGHT FOR TRAPPED CONDENSATE DISCHARGE PIPE AND PROVIDE TRAPPED/PITCHED CONDENSATE DISCHARGE PIPE TO RELOCATED AIR HANDLING UNIT CONDENSATE RECEIVER/PUMP ADJACENT TO AIR HANDLING UNIT. EXTEND AND CONNECT EXISTING POWER AND CONTROL WIRING CONNECTIONS AND PROVIDE FULLY FUNCTIONING CONTROLS OF THE NEW AIR HANDLING UNIT. EXTEND AND CONNECT STEAM HEATING PIPING TO NEW AIR HANDLING UNIT HEATING COIL. INSTALL NEW OUTDOOR AIR-COOLED CONDENSING UNIT AND ALL REFRIGERANT PIPING, POWER AND CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND THE INDOOR UNIT AND CONTROL PANEL(S). PROVIDE INTERFACE WITH EXISTING BMS FOR COMPLETE FUNCTION OF MONITORING, PARAMETER ADJUSTMENT AND ALARMS OF NEW AIR HANDLING EQUIPMENT OUTLINED IN THE CONSTRUCTION DOCUMENTS. PROVIDE NEW (DELTA) CONTROL PANEL AND/OR EXPANSION MODULE AS REQUIRED TO PROVIDE ADEQUATE CONTROL POINTS TO ACCOMMODATE CONTROL FUNCTIONS FOR THE NEW AIR HANDLING UNIT, AIR-COOLED CONDENSING UNIT, RETURN FAN, ECONOMIZER DAMPERS (RELIEF, RETURN, OUTSIDE AIR), HUMIDIFIER AND ASSOCIATED CONDENSATE PUMP(S), VARIABLE AIR VOLUME TERMINAL BOXES AND ALL OTHER ASSOCIATED EQUIPMENT. PROVIDE FULLY OPERATIONAL SYSTEMS WITH ALL OPERATIONS AND CONTROLS COMPLETELY TESTED AND FUNCTIONAL. EXPAND EXISTING CONCRETE EQUIPMENT PAD TO EXTEND 4" (MIN.) BEYOND EACH SIDE OF NEW OUTDOOR CONDENSING AIR-COOLED UNIT FOOTPRINT.
3. PROVIDE NEW HUMIDIFIER, CONDENSATE RECEIVER/PUMP AND HUMIDISTATS IN DESIGNATED LOCATIONS. PROVIDE NEW INJECTION PANEL IN SUPPLY AIR DUCT AND PIPING FROM HUMIDIFIER TO INJECTION TUBE/PANEL. CONDENSATE PIPING, SECONDARY DRAIN PAN UNDER WETTED DUCT WITH TRAPPED DISCHARGE TO CONDENSATE RECEIVER/PUMP AND CONDENSATE PUMP DISCHARGE PIPE TO EXISTING CONDENSATE PIPE (OVERHEAD). PROVIDE POWER AND CONTROL WIRING AND CONNECTIONS. PROVIDE OR EXTEND CONTROL WIRING AS REQUIRED TO PROVIDE/RESTORE BMS CONNECTION(S) AND COMPLETE FUNCTION ACCORDING TO EXISTING CONTROL SEQUENCE OF OPERATIONS.
4. PROVIDE (4) ECONOMIZER DAMPERS WHERE INDICATED IN RELIEF DISCHARGE DUCT (40x16) AND RETURN AIR DUCT (40x16) DOWNSTREAM OF RETURN AIR FAN AND OUTSIDE AIR INTAKE DUCTS (2 - 36x14 EA.). PROVIDE DAMPER ACUATORS, POWER AND CONTROL WIRING, AND CONNECTION TO UNIT CONTROLLER AND BMS FOR FULLY FUNCTIONING ECONOMIZER CYCLE PER SEQUENCE OF OPERATIONS.
5. BLOCK OFF EXISTING WALL PENETRATION FROM REMOVED GRIEVE OVEN VENT. USE RECYCLED BRICKS REMOVED TO CREATE NEW RELIEF LOUVER (L-3) WALL OPENING. COORDINATE WITH MECHANICAL KEYED DEMOLITION NOTE #10.
6. PROVIDE NEW TERMINAL BOXES INCLUDING ALL PIPING, THERMOSTATS, VALVES, POWER, CONTROLS AND ASSOCIATED DUCTWORK. PROVIDE INTERFACE WITH BMS PANEL IN MECHANICAL ROOM FOR COMPLETE FUNCTION OF MONITORING, PARAMETER ADJUSTMENT AND ALARMS IN ACCORDANCE WITH SEQUENCE OF OPERATIONS. COORDINATE ELECTRICAL POWER WITH ELECTRICAL CONTRACTOR.
7. EXISTING WALL MOUNTED RADIANT HEATING ELEMENT TO REMAIN INCLUDING ALL VALVES, POWER AND CONTROL WIRING. CLEAN HEATING ELEMENTS AND ENCLOSURE AT COMPLETION OF MECHANICAL WORK.
8. EXISTING SPLIT SYSTEM OUTDOOR UNITS TO REMAIN INCLUDING ALL PIPING, VALVES, POWER AND CONTROL WIRING. COORDINATE WITH DEMOLITION PLANS.
9. CONNECT NEW 1" MPS TO PRV STATION (50/15) FROM EXISTING 1-1/2" MPS IN PLUMBING SHOP ON LEVEL BELOW MECHANICAL ROOM A-103B. PROVIDE NEW 1-1/4" LPS & 1" LPR FROM PLUMBING SHOP DOWNSTREAM OF NEW PRV STATION UP TO MECHANICAL ROOM A-103B. COORDINATE EXACT LOCATION OF CONNECTION POINTS TO EXISTING STEAM IN PLUMBING SHOP. INSTALL PRV STATION PER DETAIL. PROVIDE DIRT LEG AND TRAP AT BASE OF RISERS. CONTINUOUSLY PITCH ALL STEAM AND CONDENSATE PIPING WITHOUT UNTRAPPED LOW POINTS.
10. 48" H x 24" W X 12" D GALVANIZED, INSULATED, PITCHED BOTTOM, LOUVER PLENUM WITH 40" W X 16" H MOTOR OPERATED ECONOMIZER DAMPER IN DUCT CONNECTION. TYPICAL FOR (3). (2) OUTSIDE AIR INTAKE AND (1) RELIEF AIR DISCHARGE.
11. CONNECT LPS/LPR STEAM PIPING FOR NEW VARIABLE AIR VOLUME (VAV) TERMINAL UNIT TO STEAM (LPS/LPR) PIPING ABOVE CEILING. INSULATE AND TAG PIPING AND VALVES AS SPECIFIED.
12. PROVIDE FILTER HOUSING AND MERV 4 PRE-FILTER IN OUTSIDE AIR INTAKE DUCT UPSTREAM OF AHU-1 CONNECTION. INSTALL FILTER HOUSING IN DUCT DROP TO AHU-1 WITH SIDE ACCESS. PROVIDE TRANSITIONS IN FILTER HOUSING INTAKE/DISCHARGE TO DCUTWORK UPSTREAM/DOWNSTREAM OF FILTER HOUSING.
13. PROVIDE AIRFLOW MEASURING STATIONS IN OUTSIDE AIR AND RETURN AIR DUCTS. REFER TO SHEET MI401 MECHANICAL CONTROLS.
14. RELOCATE EXISTING DUCTWORK TO REMAIN IN SERVICE TO EXTENT REQUIRED TO ACCOMMODATE INSTALLATION OF NEW DUCTWORK.
15. PROVIDE IRON ANGLE FRAME, SLEEVE AND FIRESTOPPING FOR ALL DUCT (AND PIPE) PENETRATIONS THROUGH RATED PARTITIONS NOT REQUIRING FIRE DAMPERS (1-1/2 HR & LESS). REFER TO FIRE DAMPER DETAIL ON SHEET MH202 AND DETAIL 4 - TYPICAL PIPE/DUCT PENETRATION OF SMOKE/FIRE BARRIERS ON SHEET GC501.



4 MECHANICAL ROOM SECTION
1/4" = 1'-0"



KEY PLAN



2 MECHANICAL NEW WORK PLAN
1/8" = 1'-0"

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — JAMES ALLEN BROWN — 24GE04258100 — LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DEMOLITION AND NEW WORK HVAC & PIPING PLANS

Phase: FINAL BID DOCUMENTS

Project Title: UPGRADE PROSTHETIC LAB

Project Number: 561-19-160

Building Number: 1

Approved:

FULLY SPRINKLERED

Location: EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ

Issue Date: 6/18/2021

Checked: DJW

Drawn: ACELA

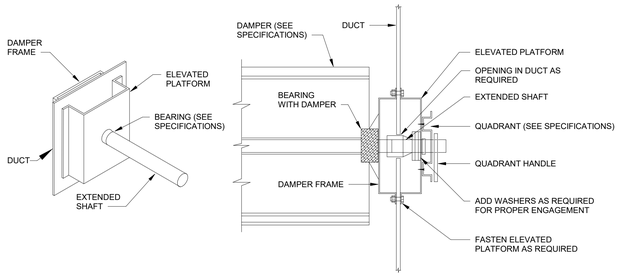
Drawing Number: MH101

Page 30 of 43

VA FORM 08 - 6231

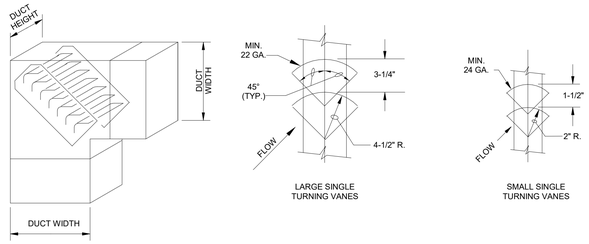
C:\Users\tborger\Documents\20-USDVA-04 MEP_tborger9KHYN.rvt

7/9/2021 1:30:12 PM



OPPOSED BLADE VOLUME DAMPER DETAIL

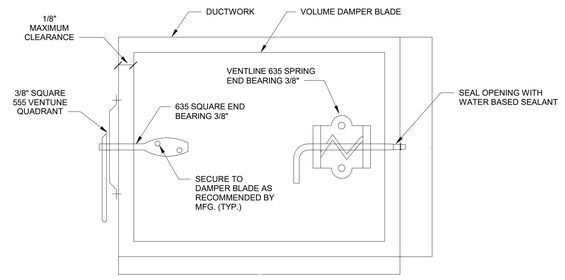
SCALE: N.T.S.



NOTES:
1. LARGE SINGLE THICKNESS TURNING VANES SHALL BE USED FOR ELBOWS OVER 24 INCHES IN DUCT WIDTH.
2. SMALL SINGLE THICKNESS TURNING VANES SHALL BE USED FOR ELBOWS 24 INCHES AND UNDER IN DUCT WIDTH.
3. THE MAXIMUM UNSUPPORTED VANE LENGTH IS 36 INCHES FOR SMALL SINGLE VANES AND LARGE SINGLE VANES. FOLLOW SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS, FIG. 2-4 LATEST EDITION, FOR VANE SUPPORT REQUIREMENTS.
4. ALL UNEQUAL ELBOWS SHALL HAVE SINGLE THICKNESS TURNING VANES WITH EDGES CONSTRUCTED TO PROJECT TANGENTS PARALLEL TO DUCT SIDES. SEE UNEQUAL ELBOW TURNING VANE DETAIL.
5. DOUBLE THICKNESS TURNING VANES WILL NOT BE ALLOWED.
6. RADIUS ELBOWS WITH CENTERLINE RADIUS EQUAL TO 1-1/2 THE DUCT WIDTH OR MORE DO NOT REQUIRE TURNING VANES. SEE SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS, FIG. 2-2 TYPE RE-1 FOR ADDITIONAL INFORMATION. ALL OTHER RADIUS ELBOWS AND 45° BENDS SHALL HAVE TURNING VANES IN ACCORDANCE WITH SMACNA.

TURNING VANE DETAILS

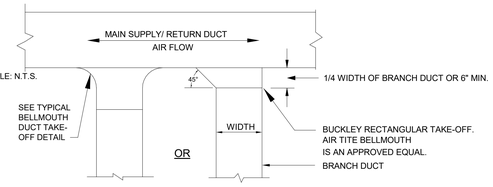
SCALE: N.T.S.



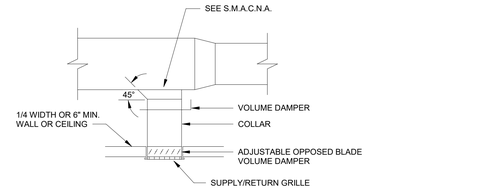
NOTES:
1. FOR INSULATED DUCTS PROVIDE 22 GAUGE ELEVATED PLATFORM AND 639 SQUARE END BEARING IN LIEU OF 635 SQUARE END BEARING.
2. REFER TO SMACNA HVAC DUCT CONSTRUCTION FIG. 2-14 FOR ADDITIONAL INFORMATION.

VOLUME DAMPER HARDWARE FOR RECTANGULAR DUCT 3" S.P. CLASS AND BELOW

SCALE: N.T.S.

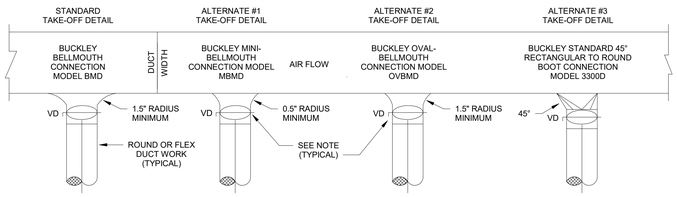


TYPICAL BRANCH DUCT TAKE-OFF DETAIL



REGISTER AND GRILLE CONNECTION DETAIL

SCALE: N.T.S.



ROUND DUCT SIZE	DUCT OPENING SIZE	MINIMUM DUCT HEIGHT
5"ø	8"ø	9"
6"ø	9"ø	10"
7"ø	10"ø	11"
8"ø	11"ø	12"
9"ø	12"ø	13"
10"ø	13"ø	14"
12"ø	15"ø	16"
14"ø	17"ø	18"
16"ø	19"ø	20"

ROUND DUCT SIZE	DUCT OPENING SIZE	MINIMUM DUCT HEIGHT
5"ø	—	—
6"ø	7"ø	9"
7"ø	—	—
8"ø	9"ø	11"
9"ø	—	—
10"ø	11"ø	13"
12"ø	—	—
14"ø	—	—
16"ø	—	—

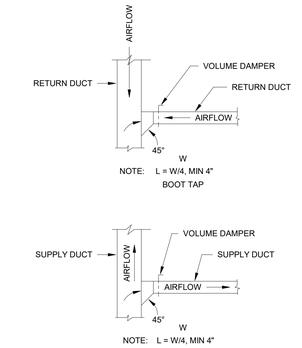
ROUND DUCT SIZE	DUCT OPENING SIZE	MINIMUM DUCT HEIGHT
5"ø	—	—
6"ø	—	—
7"ø	—	—
8"ø	9"x10-9/16"	10"
9"ø	9"x12-1/8"	10"
10"ø	12"ø	10"
12"ø	13"ø	10"
14"ø	15"ø	10"
16"ø	17"ø	10"
	19"ø	10"

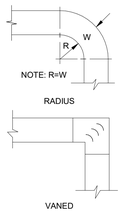
ROUND DUCT SIZE	DUCT OPENING SIZE	MINIMUM DUCT HEIGHT
5"ø	5" X 10"	7"
6"ø	6" X 12"	8"
7"ø	6" X 12"	8"
8"ø	6-1/2" X 12"	8-1/2"
9"ø	6-1/2" X 14"	8-1/2"
10"ø	6-1/2" X 16"	8-1/2"
12"ø	8-1/2" X 18"	10-1/2"
14"ø	10" X 20"	12"
16"ø	—	—

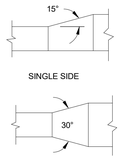
NOTES:
1) ALTERNATE FITTING'S TO BE USED WHEN DUCT HEIGHT DOES NOT PERMIT THE USE OF THE STANDARD SIZE BELLMOUTH.
2) BENDING THE EDGES OF BELLMOUTHS IS NOT ALLOWED.

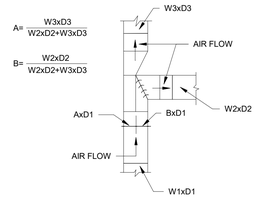
TYPICAL BELLMOUTH DUCT TAKE-OFF DETAIL

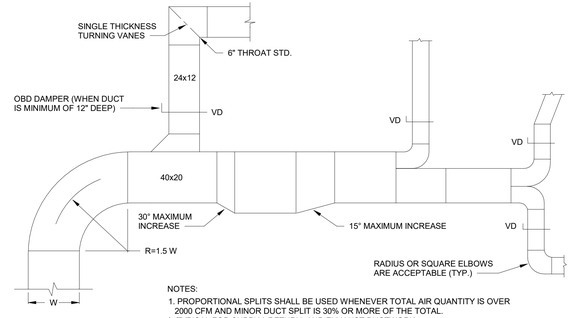
SCALE: N.T.S.











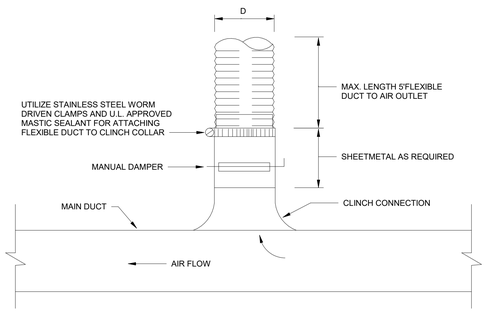
NOTES:
1. PROPORTIONAL SPLITS SHALL BE USED WHENEVER TOTAL AIR QUANTITY IS OVER 2000 CFM AND MINOR DUCT SPLIT IS 30% OR MORE OF THE TOTAL.
2. TYPICAL FOR SUPPLY, RETURN, AND EXHAUST DUCTWORK.
3. FOR BELLMOUTH TAKE-OFFS, SEE TYPICAL DUCT TAKE-OFF.

TYPICAL SUPPLY OR RETURN DUCT

SCALE: N.T.S.

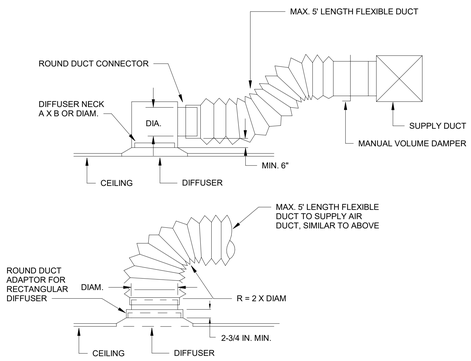
TYPICAL DUCT FITTING DETAILS

SCALE: N.T.S.

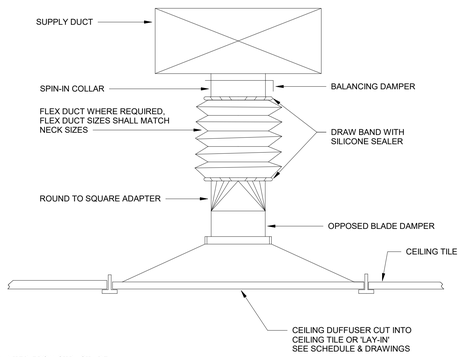


ROUND BRANCH CONNECTION DETAIL

SCALE: N.T.S.

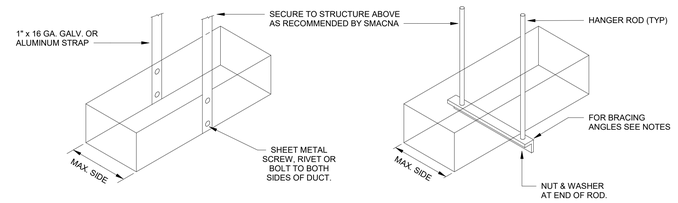


NOTE: DIFFUSERS TO BE INDEPENDENTLY MOUNTED FROM STRUCTURE.



TYPICAL DIFFUSER CONNECTION DETAILS

SCALE: N.T.S.



MAX. 16 GA. DUCT PERIMETER (IN.)	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE / ROD	STRAP	WIRE / ROD	STRAP	WIRE / ROD	STRAP	WIRE / ROD
UP TO 60"	1" X 22 GA.	10 GA. (0.135")	1" X 22 GA.	10 GA. (0.135")	1" X 22 GA.	12 GA. (0.106")	1" X 22 GA.	12 GA. (0.106")
61" TO 144"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"	1" X 22 GA.	1/4"	1" X 22 GA.	1/4"
145" TO 192"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	3/8"	1" X 22 GA.	1/4"
193" TO 240"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"
241" TO 336"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"
337" TO 384"	1-1/2" X 16 GA.	1/2"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 16 GA.	3/8"
385" AND UP	SPECIAL ANALYSIS REQUIRED							

NOTES:
1. FOR SEVERAL DUCTS ON ONE HANGER, ROD / WIRE TYPE HANGERS MAY BE USED. SIZE OF THE HANGER WILL BE SELECTED BY THE SUM OF THE DUCT PERIMETERS.
2. DUCTS SHALL BE SUPPORTED FROM STRUCTURAL STEEL, NOT FLOOR DECK ABOVE.
3. FOR MINIMUM FASTENERS AND MAXIMUM ALLOWABLE LOADS FOR HANGERS, SEE *TABLE 5.1 RECTANGULAR DUCT HANGER MINIMUM SIZE**.
4. TRAPEZE ANGLE SIZING SHALL COMPLY WITH *TABLE 5-3 ALLOWABLE LOADS IN POUNDS FOR TRAPEZE BARS**.
5. STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL.
6. 12, 10, OR 8 GA. WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.
7. TABLE ALLOWS FOR DUCT WEIGHT, 1 LB/SF INSULATION WEIGHT AND NORMAL REINFORCEMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.

* ALL SPECIFICATIONS AND TABLE REFERENCES LISTED ABOVE ARE TAKEN FROM THE THIRD EDITION - 2005 SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE".

TYPICAL DUCT HANGER DETAIL - SCHEDULE

SCALE: N.T.S.

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · BRIAN ALLEN HORAN · 24GE04258100 · LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

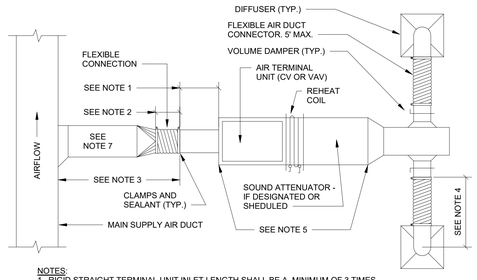
VA U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL DETAILS
Phase	FINAL BID DOCUMENTS
Project Title	UPGRADE PROSTHETIC LAB
Project Number	561-19-160
Building Number	1
Approved:	
	FULLY SPRINKLERED
Location	EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ
Drawing Number	MH201
Issue Date	6/18/2021
Checked	DJW
Drawn	ACELA

Page 31 of 43

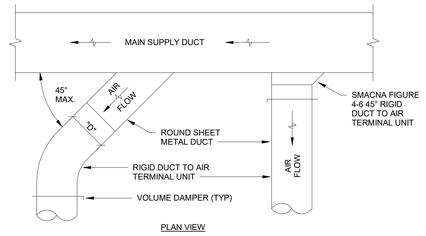
7/9/2021 1:30:14 PM
C:\Users\tborger\Documents\20-USDVA-04 MEP_tborger3KHYN.rvt

VA FORM 08 - 6231



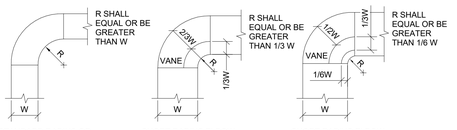
NOTES:
1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET.
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0" [900mm].
3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET (3 METERS). FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100' [1.64Pa/m].
4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0" [1500mm]. USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION WITH VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.
6. USE OF THE FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.
7. REFER TO SUPPLY DUCT TAKE-OFF DETAIL - AIR TERMINAL UNIT INLET.

AIR TERMINAL DUCT CONNECTION DETAIL



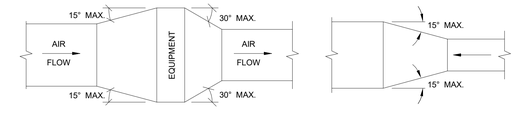
PLAN VIEW

SUPPLY DUCT TAKE OFF DETAIL - AIR TERMINAL UNIT INLET



NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

DUCTWORK RADIUS ELBOW DETAILS

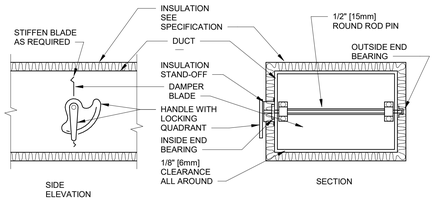


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

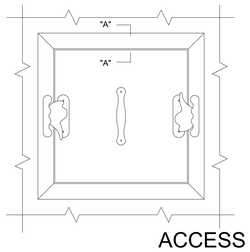
NOTE: MAXIMUM ANGLES SHOWN SHALL APPLY UNLESS OTHERWISE INDICATED ON PLANS.

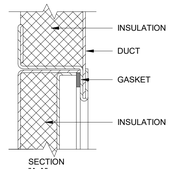
DUCTWORK TRANSITION DETAIL



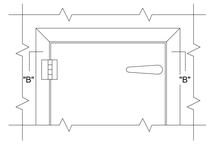
NOTES:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

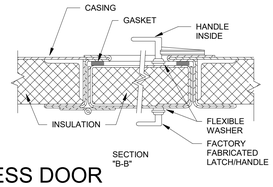
VOLUME DAMPER DETAIL





ACCESS PANEL

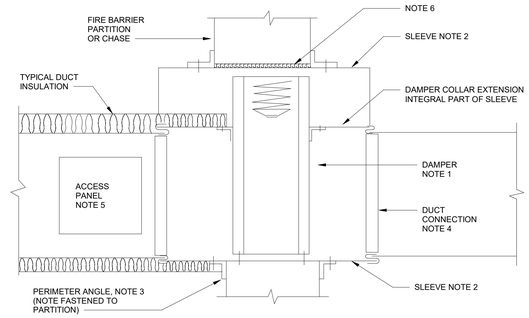




ACCESS DOOR

NOTES:
1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
3. SEE SMACNA 2005, FIGURE 9-15.

ACCESS PANEL/DOOR DETAIL



NOTES:
1. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. PERIMETER ANGELS: GALVANIZED STEEL, NOT LESS THAN 1 1/2"x1 1/2"x14 GAGE TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA LPDS, FIG. 2-13, SEAL JOINTS.
5. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING OF FUSIBLE LINKS.
6. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH. FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.

FIRE DAMPER DETAIL

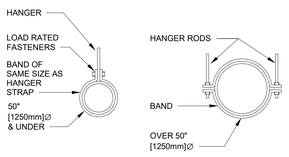
NOTES:
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50mm] RADIUS, 1 1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

DUCTWORK SQUARE VANE ELBOW DETAIL

EXHAUST/RETURN BRANCH DUCT TAKE-OFF DETAIL

NOTES:
1. VENT ALL HIGH POINTS INDICATED ABOVE.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

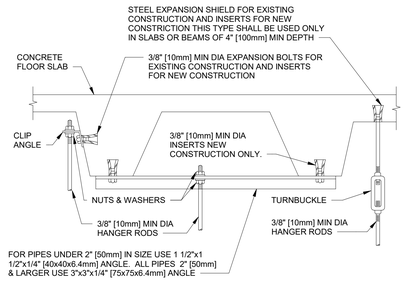
AIR VENT DETAIL



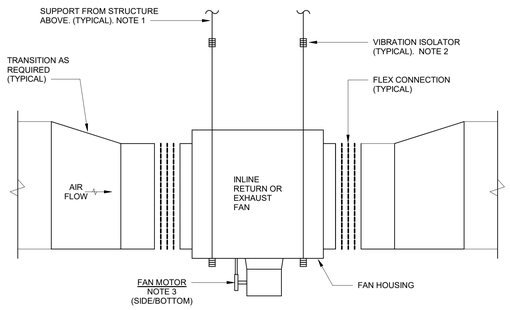
HANGER STRAPS OR RODS			
MAX. DUCT Ø IN. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10]Ø. RODS	1320 [598]	144 [3600]
84 [2100]	TWO 1/2 [13]Ø RODS	2500 [1133]	144 [3600]

NOTE:
TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

ROUND DUCT HANGER DETAIL

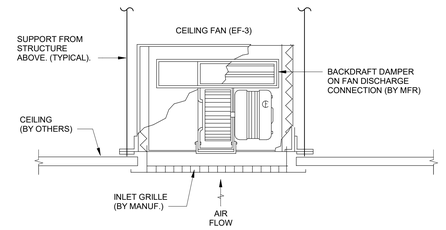


SECURING HANGER RODS IN CONCRETE



NOTES:
1. SUSPEND UNIT FROM STRUCTURE ABOVE PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE MANUFACTURER'S STANDARD VIBRATION ISOLATORS ON ALL HANGERS AND SUPPORTS.
3. COORDINATE FAN MOTOR ARRANGEMENT (SIDE, BOTTOM) WITH MAINTENANCE REQUIREMENTS, SITE CONDITIONS AND CEILING HEIGHTS.

INLINE FAN DETAIL



CEILING FAN DETAIL

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers

acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY DAVID ALLEN BROWN 24GE04258100 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

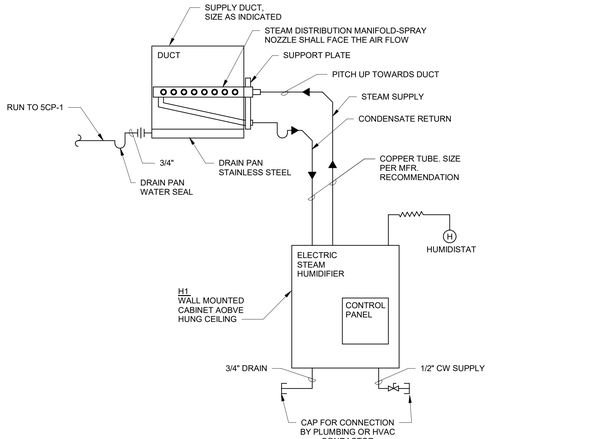
VA U.S. Department of Veterans Affairs

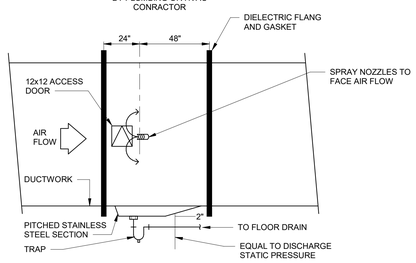
Drawing Title	MECHANICAL DETAILS
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	UPGRADE PROSTHETIC LAB
Location	EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ
Issue Date	6/18/2021
Checked	DJW
Drawn	ACELA
Project Number	561-19-160
Building Number	1
Drawing Number	MH202

VA FORM 08 - 6231

C:\Users\tborger\Documents\20-USDVA-04 MEP..tborger3KHYN.rvt

7/9/2021 1:30:16 PM

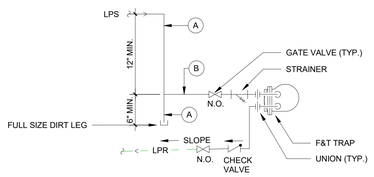




NOTES:

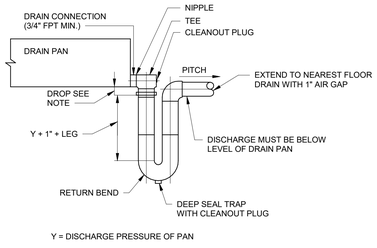
1. IF MFR. RECOMMENDED INSTALLATION INSTRUCTIONS DIFFER FROM THIS DETAIL THEN MFR. INSTRCUTIONS SHALL TAKE PRECEDENCE.
2. PROVIDE WALL MOUNT HUMIDIFIER FOR H-1. MOUNT AS SHOWN ON WALL OR COLUMN.
3. POWER TO HUMIDIFIER BY E.C.

STEAM HUMIDIFIER PIPING DETAIL



PIPE SIZE (INCHES)			TRAP CAPACITY
LPS	A	B	LB/HR
3/4	SAME SIZE AS LPS	3/4	30
1 & 1 1/4		3/4	60
1 1/2 & 2		1	90
2 1/2 & 3		1 1/4	180
4 & 5	5	1 1/2	360
6 & 8	5	1 1/2	700
10 & 12	6	2	1200
14 & 16	8	2	1800

STEAM TRAP AND RISER DETAIL

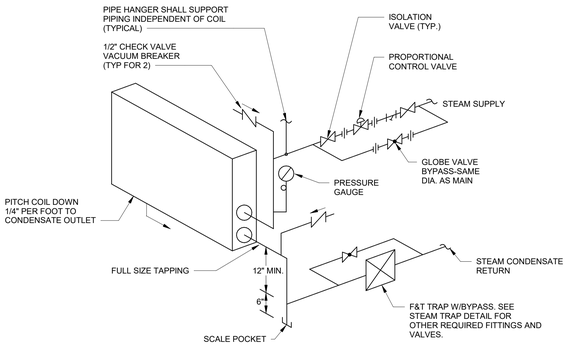


Y = DISCHARGE PRESSURE OF PAN

NOTES:

1. 1" MIN. DROP REQUIRED, USE STANDARD FITTINGS.
2. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
3. PITCH DRAIN FOR PROPER RUN-OFF.
4. MANUALLY PRIME FILL TRAP BEFORE START-UP.
5. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.

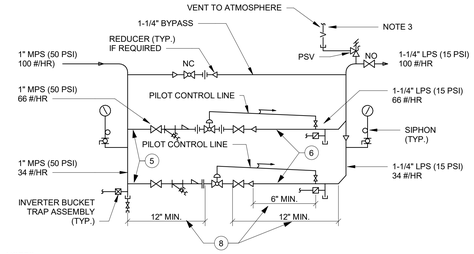
DRAIN PAN WATER SEAL PIPING DETAIL



NOTES:

1. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS: NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES, OR EQUIPMENT.
2. WHERE THE DISTANCE FROM THE INTAKE OF TRAP TO BOTTOM OF COIL IS RESTRICTED, FLOAT AND THERMOSTATIC TRAP CAPACITIES SHALL BE SELECTED ON A LOWER PRESSURE DROP SUITED TO THE DISTANCE BETWEEN BOTTOM OF COIL AND TRAP INLET.
3. F&T TRAP SERVING REHEAT COILS SHALL BE SPIRAX SARCO FT-15 OR EQUAL.

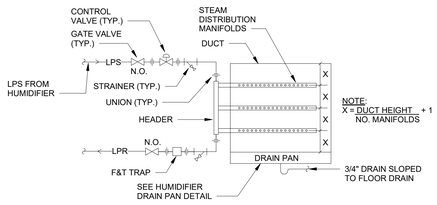
VAV-BOX REHEAT COIL PIPING DIAGRAM



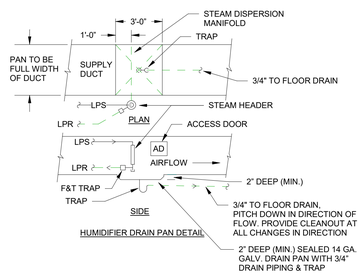
NOTES:

1. SEE EQUIPMENT SCHEDULES FOR DATA AND PIPE SIZES D1 AND D2. INSTALL VALVES AS RECOMMENDED BY MANUFACTURER.
2. MAKE BYPASS VALVE DISCHARGE PIPE THE SAME SIZE AS D2 FOR THE LARGEST PRV.
3. PROVIDE NECESSARY UNIONS FOR THE REMOVAL OF VALVE WITH SCREWED CONNECTIONS.
4. SLOPE PILOT CONTROL LINE FROM PRESSURE REDUCING VALVE TO DOWN STREAM STEAM PIPING. MINIMUM SLOPE SHALL BE 1/4"/12.
5. DESIGNATE LOWER VALVE A AND UPPER VALVE B (1-PRV1A, 1-PRV1B).
6. USE DUAL VALVE PRESSURE REDUCING STATION WHEN THE MINIMUM LOAD IS 10% OR LESS THAN PEAK LOAD.
7. SAFETY VALVES SHALL BE SIZED SO AS TO RELIEVE AT PRESSURES OF (5-10 PSIG) IN EXCESS OF DELIVERED PRESSURES OF PRV'S AND TO HAVE A CAPACITY EQUAL TO MAXIMUM CAPACITY OF PRV IT IS TO RELIEVE. VENT PIPE SHALL BE NO LESS THAN ONE PIPE SIZE LARGER THAN SAFETY VALVE DISCHARGE AND SHALL FURTHER BE SIZED SO THAT FRICTIONAL RESISTANCE OR VENT DOES NOT EXCEED VELOCITY PRESSURE AT SAFETY VALVE OUTLET. VENTS FROM SAFETY VALVES SHALL RUN THE SHORTEST AND MOST DIRECT ROUTE TO OUTDOOR THRU THE ROOF. WHERE VENTS RUN IN FINISHED SPACE THEY SHALL BE FURRED IN TO MATCH ADJACENT BUILDING CONSTRUCTION; IN UNFINISHED SPACE, PIPE TO BE COVERED ONLY. SAFETY VALVES SHALL BE LOCATED AS SHOWN ON DETAIL.
8. PIPE DIMENSIONS SHALL BE AS INDICATED IN DETAIL, DRAWINGS OR BY MANUFACTURER'S RECOMMENDATION.

STEAM PRESSURE REDUCING STATION DETAIL

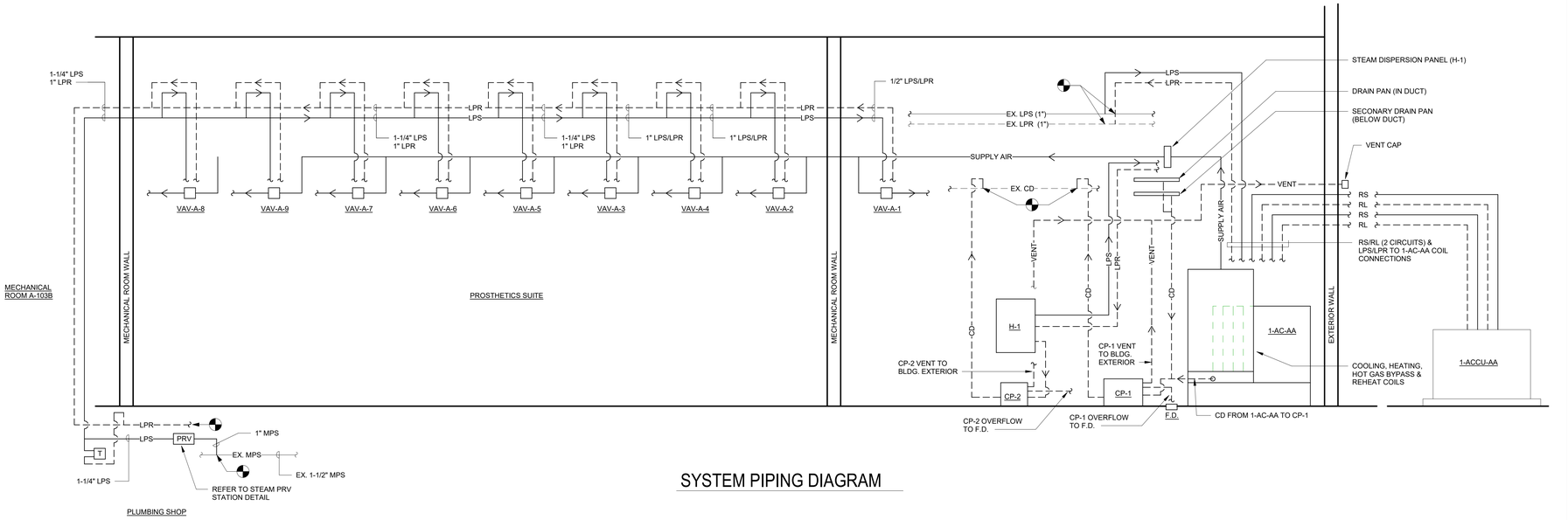


HUMIDIFIER DISPERSION PANEL PIPING DETAIL



HUMIDIFIER DRAIN PAN DETAIL

HUMIDIFIER PIPING DETAILS



SYSTEM PIPING DIAGRAM

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers

acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103

office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — LICENSED PROFESSIONAL ENGINEER — 24GE04258100

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETIC LAB	Project Number: 561-19-160
Approved:	FULLY SPRINKLERED	Location: EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ	Building Number: 1
		Issue Date: 6/18/2021 / Checked: DJW / Drawn: ACELA	Drawing Number: MH203

Page 33 of 43

VA FORM 08 - 6231

7/9/2021 1:30:18 PM

C:\Users\tboger\Documents\20-USDVA-04 MEP_tboger3KHYN.rvt

SPLIT AIR HANDLING UNIT SCHEDULE

TAG	BASIS OF DESIGN		SUPPLY CFM (MAX.)	SUPPLY CFM (MIN.)	O.A. CFM (MAX.)	O.A. CFM (MIN.)	ESP (IN WG)	SUPPLY FAN						ELEC DATA				COOLING (DX)			LPS (10 PSI)					PHYSICAL DATA				
	MAKE	MODEL						TAG	QTY	CFM	ESP	HP	RPM	FLA	V/PH	FLA	MCA	MOC	EAT (°F) (DB/WB)	LAT (°F) (DB/WB)	MBH (TOTAL)	MBH (SENS)	EAT (°F)	LAT (°F)	MBH	LPS (#/HR)	LPS (PSI)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)
1-AC-AA	AAON	V3-ELB-8	5,500	4,000	1,100	800	1.75	SF-1	1	5,500	1.75	8	2,750	18.3	208/3	18.3	23	40	78/65	55.3/54	175.7	132.0	50	60	63	63	5	79-1/8	56-1/2	96-5/8	850

REMARKS:
1. PROVIDE 6" CONCRETE EQUIPMENT CURB AND 12" PREFABRICATED EQUIPMENT CURB BY UNIT MFR TO PROVIDE ADEQUATE TRAPPED CONDENSATE DISCHARGE HEIGHT FOR PITCHED DRAIN TO CONDENSATE RECEIVER/PUMP PACKAGE (CP-1).
2. PROVIDE TRAPPED AND PITCHED CONDENSATE DISCHARGE DRAIN PIPE TO CONDENSATE RECEIVER/PUMP PACKAGE (CP-1). PITCH LPS & LPR CONTINUOUSLYIN DIRECTION OF FLOW WITHOUT UNTRAPPED LOW POINTS.
3. UNIT SHALL BE UL LISTED, WITH UNIT MOUNTED DISCONNECT SWITCH, FOR SINGLE POINT POWER CONNECTION BY ELECTRICAL CONTRACTOR.
4. PROVIDE INTERFACE INCLUDING ALL WIRING AND CONNECTIONS FOR EXTERNAL CONTROL PANEL BY UNIT MFR. TO AIR HANDLING UNIT, AIR-COOLED CONDENSING UNIT, CAMPUS BMS AND ASSOCIATED EQUIPMENT CONTROLS. PROVIDE BMS SYSTEM PROGRAMMING TO ACCOMMODATE SEQUENCE OF OPERATIONS.
5. PROVIDE MFR.'S FACTORY INSTALLED LOW AMBIENT OPERATION CONTROLS AND ACCESSORIES, HOT GAS BYPASS AND HOT GAS REHEAT ACCESSORIES AND CONTROLS OPTIONS. PROVIDE ALTERNATE INDIVIDUAL DEDUCT PRICING TO OMIT HOT GAS BYPASS AND HOT GAS REHEAT OPTIONS.
6. PROVIDE INTERFACE FOR ASSOCIATED RETURN FAN RF-1 TO TRACK SUPPLY FAN SF-1 OPERATING AIRFLOW.
7. PROVIDE ALL REFRIGERANT PIPING, ACCESSORIES, OPTIONS, POWER AND CONTROL WIRING BETWEEN AIR HANDLING UNIT, AIR-COOLED CONDENSING UNIT AND CONTROL SYSTEMS.
8. INSTALL DUCT DETECTOR (PROVIDED BY E.C.) IN SUPPLY AIR DISCHARGE. PROVIDE DUCT DETECTOR CONNECTIONS TO BMS/FAS. COORDINATE FAS SIGNAL WITH ELECTRICAL CONTRACTOR.
9. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR/DISCIPLINE.
10. PROVIDE UNITS THAT MEET OR EXCEED THE STANDARD OF QUALITY AS LISTED BASIS OF DESIGN OR SPECIFIED AS APPROVED EQUAL TO BASIS OF DESIGN MANUFACTURER.
11. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
12. SEQUENCE OF OPERATIONS: UNIT SHALL CONTROL SUPPLY FAN TO MAINTAIN DUCT SYSTEM PRESSURE SETPOINT, TRACK AND MODULATE RETURN FAN TO MATCH SUPPLY FAN, MODULATE ECONOMIZER CYCLE DAMPERS TO MAXIMIZE ENERGY EFFICIENCY, CONTROL ALL HEATING AND COOLING FUNCTIONS TO MAINTAIN LEAVING AIR TEMPERATURE SETPOINT, SIGNAL FIRE ALARM SYSTEM AND SHUT DOWN UNIT AND ALL ASSOCIATED EQUIPMENT UNDER ALARM CONDITION (REQUIRING MANUAL RESET).
13. EXPAND EXISTING CONCRETE PAD TO EXTEND 4" LARGER THAN (EACH EDGE OF) AIR-COOLED CONDENSING UNIT.
14. CONDENSING UNIT SHALL BE DUAL CIRCUIT. LEAD CIRCUIT SHALL BE VARIABLE CAPACITY.
15. PROVIDE 120 VOLT/SINGLE PHASE, OUTDOOR GFCI SERVICE RECEPTACLE WITHIN 15' OF OUTDOOR UNIT WITH POWER BY E.C.
16. AIR HANDLING UNIT, AIR-COOLED CONDENSING UNIT, ASSOCIATED EQUIPMENT, CONTROLS AND CAMPUS BMS SHALL BE FULLY TESTED AND GUARANTEED TO BE OPERATIONAL TO SATISFY THE SEQUENCES OF OPERATIONS.

CONDENSING UNIT SCHEDULE

TAG	BASIS OF DESIGN		ELECTRICAL DATA								SERVICE RECEPT.	PHYSICAL DATA				REMARKS
	MAKE	MODEL	V/PH	FLA	MCA	MOC	COMPRESSORS		CONDENSER FANS							
							QTY	RLA	QTY	HP	RPM	FLA	(V/PH)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	
ACCU-3	AAON	CFA-016	208/3	56	62	80	2	25	2	3/4	1075	3.4	120/1	91	63	67-1/4	1343	1 - 16

VARIABLE-AIR-VOLUME (VAV) BOX SCHEDULE

TAG	AREA SERVED	MANUF.	MODEL	INLET ("ø)	CFM (MAX.)	HEATING									ELEC. (V/PH)	REMARKS
						CFM (MIN.)	EAT (°F)	LAT (°F)	MBH	APD MAX. (IN WG)	LPS (#/HR)	LPS PIPE (" ø)	LPR PIPE (" ø)	LPS (PSI)	ROWS/ FPI	
VAV-A-1	MECHANICAL ROOM	TITUS	DESV	6	260	125	55	95	5.4	0.25	5.6	1/2"	1/2"	15	1/10	120/1	1 - 8
VAV-A-2	ORTHOTICS LAB	TITUS	DESV	8	530	530	55	95	22.9	0.25	23.6	3/4"	1/2"	15	2/10	120/1	1 - 8
VAV-A-3	OPEN OFFICE	TITUS	DESV	12	930	365	55	95	15.8	0.25	16.3	3/4"	1/2"	15	1/10	120/1	1 - 8
VAV-A-4	OFFICES	TITUS	DESV	7	340	150	55	95	6.5	0.25	6.7	1/2"	1/2"	15	1/10	120/1	1 - 8
VAV-A-5	OFFICE, STORAGE	TITUS	DESV	5	300	150	55	75	3.2	0.25	3.3	1/2"	1/2"	15	1/10	120/1	1 - 8
VAV-A-6	CORRIDOR	TITUS	DESV	9	750	225	55	75	4.9	0.25	5.0	1/2"	1/2"	15	2/10	120/1	1 - 8
VAV-A-7	STORAGE	TITUS	DESV	12	850	850	55	75	18.4	0.25	18.9	3/4"	1/2"	15	2/10	120/1	1 - 8
VAV-A-8	RECEPT., WAITING, CORR.	TITUS	DESV	9	720	720	55	75	15.6	0.25	16.0	3/4"	1/2"	15	1/10	120/1	1 - 8
VAV-A-9	EXAM, WC REPAIR, SHOE	TITUS	DESV	8	575	575	55	75	12.4	0.25	12.8	3/4"	1/2"	15	1/10	120/1	1 - 8

REMARKS
1. PROVIDE SINGLE POINT POWER CONNECTION WITH UNIT MOUNTED DISCONNECT.
2. CONTROL TRANSFORMER FACTORY INSTALLED BY EQUIPMENT MANUFACTURER. 120 VOLT/1 PH POWER BY E.C.
3. PROVIDE CONNECTION-INTERFACE WITH ATC/BMS CONTROL PANELS IN MECHANICAL ROOM AS DESIGNATED ON CONSTRUCTION DOCUMENTS.
4. SUPPORT FROM STRUCTURE.
5. PROVIDE FLEXIBLE CONNECTION TO INTAKE/DISCHARGE.
6. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND VAV-BOX DETAILS.
7. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
8. PITCH LPS & LPR IN DIRECTION OF FLOW WITHOUT UNTRAPPED LOW POINTS.

VENTILATION SCHEDULE

ROOM #	ROOM NAME	AREA (SQ FT)	CEILING HEIGHT (FT)	ROOM VOLUME (CU FT)	AIR MOVEMENT RELATIONSHIP TO ADJACENT SPACES		TOTAL AIRFLOWS & RATES				ALL AIR EXHAUSTED DIRECTLY OUTSIDE		AIR RECIRCULATED BY ROOM UNITS		OUTSIDE AIR FLOWS & RATES			
							AC/HR		CFM						AC/HR		CFM	
					CODE	ACTUAL	CODE	ACTUAL	CODE	ACTUAL	CODE	ACTUAL	CODE	ACTUAL	CODE	ACTUAL	CODE	ACTUAL
A700	WAITING ROOM	186	8.5	1581	N/A	N/A	N/A	11.4	N/A	300	N/A	NO	N/A	NO	N/A	2.8	N/A	75
A-700B	CORRIDOR	196	8.2	1607	N/A	N/A	2	3.7	53.6	100	N/A	NO	N/A	NO	N/A	0.4	N/A	12
A-700C	CORRIDOR	316	8.2	2591	N/A	N/A	2	3.5	86.4	150	N/A	NO	N/A	NO	N/A	0.5	N/A	21
A-700D	CORRIDOR	172	8.2	1410	N/A	N/A	2	2.8	47.0	65	N/A	NO	N/A	NO	N/A	0.5	N/A	11
A-700E	OPEN OFFICE	681	8	5448	N/A	N/A	N/A	3.3	N/A	300	N/A	NO	N/A	NO	N/A	0.8	N/A	76
A-701	RECEPTION	102	8	816	N/A	N/A	N/A	7.4	N/A	100	N/A	NO	N/A	NO	N/A	0.8	N/A	11
A-703	W/C REPAIR	152	8	1216	N/A	N/A	N/A	7.4	N/A	150	N/A	NO	N/A	NO	N/A	2.0	N/A	41
A-704	EXAM	247	8	1976	N/A	N/A	4	8.2	131.7	270	N/A	NO	N/A	NO	2	2.0	65.9	67
A-705	EXAM	181	8	1448	N/A	N/A	4	10.4	96.5	250	N/A	NO	N/A	NO	2	2.0	48.3	49
A-706	SHOE FITTING	90	8	720	N/A	N/A	4	10.0	48.0	120	N/A	NO	N/A	NO	2	2.0	24.0	24
A-707	STORAGE	1129	8	9032	N/A	N/A	N/A	5.6	N/A	850	N/A	NO	N/A	NO	N/A	1.4	N/A	215
A-709	TOILET	66	8	528	NEG	NEG	10	11.4	88.0	100	YES	YES	NO	NO	N/A	0.8	N/A	7
A-711	STORAGE	41	8	328	NEG	NEG	N/A	4.6	N/A	25	N/A	NO	N/A	NO	N/A	1.3	N/A	7
A-712	OFFICE	146	8	1168	N/A	N/A	N/A	5.1	N/A	100	N/A	NO	N/A	NO	N/A	0.8	N/A	15
A-713	OFFICE	115	8	920	N/A	N/A	N/A	4.9	N/A	75	N/A	NO	N/A	NO	N/A	0.8	N/A	13
A-714	OFFICE	115	8	920	N/A	N/A	N/A	4.9	N/A	75	N/A	NO	N/A	NO	N/A	0.8	N/A	13
A-715	LABORATORY	515	8	4120	NEG	NEG	6	7.7	412	530	N/A	YES	N/A	NO	2	2.0	137.3	139
A-716	MECH. ROOM	289	12.5	3613	N/A	N/A	N/A	2.1	N/A	125	N/A	NO	N/A	NO	N/A	0.3	N/A	19
A-104	CORRIDOR	503	8	4024	N/A	N/A	2	4.8	N/A	325	N/A	NO	N/A	NO	N/A	0.5	N/A	34
A-103	TOILET	78	8.2	640	NEG	NEG	10	10.3	106.6	110	YES	YES	NO	NO	N/A	1.0	N/A	11

FAN SCHEDULE

TAG	SYSTEM SERVED	TYPE	CFM (MAX.)	CFM (MIN.)	ESP (IN WG)	RPM	BHP	HP	VOLT/PH	AMPS	DRIVE	SPEED	CONTROL	SONES/DB	MFG	MODEL	WEIGHT (LBS)	REMARKS
RF-1	1-AC-AA	INLINE	4,950	3,450	1.0	1,241	2.4	3	208/3	10.6	DIRECT	VFD	BMS	22/73	GREENHECK	BSQ-200	250	1 - 10
EF-2	LAB A-715	INLINE	550	275	0.5	1,168	0.15	1/4	120/1	4.1	DIRECT	VFD	BMS	1.3/32	GREENHECK	CSP-A700	39	1 - 7, 10
EF-3	TOILET A-711	CEILING	100	100	0.25	950	0.01	1/30	120/1	0.19	DIRECT	CS	BMS	1.4/31	GREENHECK	CSP-A110	16	1 ,2, 6, 7,11

REMARKS
1. PROVIDE SINGLE POINT POWER CONNECTION WITH UNIT MOUNTED DISCONNECT.
2. HANG DIRECTLY FROM STRUCTURE. DO NOT SUPPORT FROM ADJACENT DUCTWORK.
3. PROVIDE MANUFACTURER'S STANDARD ISOLATION.
4. PROVIDE FLEXIBLE CONNECTION ON INTAKE AND DISCHARGE.
5. PROVIDE SIDE MOUNTED MOTOR AND PROVIDE MANUFACTURER'S MAINTENANCE CLEARANCES.
6. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
7. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. VFD'S BY E.C.
8. INTERLOCK RF-1 WITH 1-AC-AA TO ENABLE WHEN 1-AC-AA IS ENERGIZED.
9. PROVIDE BALANCING AND CONTROL SEQUENCE FOR RF-1 TO TRACK AIRFLOW FOR 1-AC-AA.
10. 1-AC-AA/SF-1, RF-1 AND EF-2 SHALL RUN AT MAX. DURING OCCUPIED MODE AND MIN. DURING UNOCCUPIED MODE (PER CAMPUS SCHEDULE, ADJ.).
11. EF-3 SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE. CONTROLLED THRU BMS SCHEDULE.

LOUVER SCHEDULE

TAG	BASIS OF DESIGN		CFM	FPM (MAX.)	FREE AREA	FACE AREA	TYPE	SERVICE	DAMPER TYPE	DIMENSIONS			REMARKS
	MANUF.	MODEL								DEPTH	WIDTH	HEIGHT	
L-1	CONSTRUCTION SPECIALTIES	A6097	2,750	700	4 SF	8 SF	INTAKE	1-AC-AA	MOD	6"	48"	24"	1-4
L-2	CONSTRUCTION SPECIALTIES	A6097	2,750	700	4 SF	8 SF	INTAKE	1-AC-AA	MOD	6"	48"	24"	1-4
L-3	CONSTRUCTION SPECIALTIES	A6097	5,000	1500	4 SF	8 SF	EXHAUST	RF-1	MOD	6"	48"	24"	1-4
L-4	CONSTRUCTION SPECIALTIES	A6097	550	1000	0.56 SF	1.1 SF	EXHAUST	EF-2	MOD	6"	16"	10"	1-4

REMARKS:
1. PROVIDE WATER PROOF & WEATHER TIGHT SEAL AROUND WALL PENETRATION.
2. PROVIDE 12" DEEP, GALVANIZED, PITCHED BOTTOM, INSULATED, DRAINABLE PLENUM WITH WIRE MESH SCREEN AND DAMPER.
3. MOTOR OPERATED DAMPERS SHALL BE INTERLOCKED WITH ASSOCIATED AIR SYSTEM TO OPEN WHEN SYSTEM IS OPERATIONAL.
4. COORDINATE PHYSICAL (WALL OPENING AND LENTIL) REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL.

HUMIDIFIER SCHEDULE

TAG	BASIS OF DESIGN		AIRFLOW (CFM)	AIR TEMP	DUCT SIZE	#/HR	UPSTREAM		DOWNSTREAM		SPACE			ABSORP. DISTANCE	ELECTRICAL DATA				FILL (GPM)	DRAIN (GPM)	REMARKS
	MANUF.	MODEL					RH	GR/#	RH	GR/#	TEMP.	RH	GR/#		V/PH	KW	MCA	MOP			
H-1	CONDAIR	EL100	5,500	55°F	40"X18"	95.6	30%	19.2	73%	46.8	72°F	40%	46.8	2.6'	208/3	33.7	93.4	125	1.0	2.3	1 - 9

REMARKS:
1. PROVIDE WALL MOUNTED, ELECTRODE/CANISTER HUMIDIFER AND DISPERSION PANEL AS MANUFACTURED BY CONDAIR (NORTEC), DRISTEEM, HERRMIDIFIER, COREL OR PRE-APPROVED EQUAL.
2. UNIT SHALL BE UL LISTED, WITH UNIT MOUNTED DISCONNECT SWITCH, SINGLE POINT POWER CONNECTION AND THERMAL OVERLOAD PROTECTION.
3. FACTORY INTEGRATED CONTROLS TO INCLUDE DUCT MOUNTED HIGH & LOW LEVEL HUMIDITY SENSORS, AIR PROVING SWITCH, SAFETY SHUTOFF, ROOM HUMIDITY SENSOR AND BMS/ATC INTERFACE.
4. PROVIDE STEAM TUBE AND TRAP ASSEMBLY, COLD WATER CONNECTION, AND HUMIDIFIER DRAIN CONNECTION DISCHARGE TO CONDENSATE PUMP CP-2.
5. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND HUMIDIFIER DETAILS.
6. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR/DISCIPLINE.
7. SEQUENCE OF OPERATIONS: HUMIDIFIER SHALL CONTROL TO MAINTAIN HUMIDITY SETPOINT.
8. PROVIDE WETTED DUCT DRAIN DISCHARGE TO CONDENSATE PUMP RECEIVER CP-1.
9. PROVIDE SECONDARY DRAIN PAN UNDER WETTED DUCT TO CONDENSATE PUMP RECEIVER CP-1.

CABINET UNIT HEATER SCHEDULE

TAG	MANUF.	MODEL	CFM	MBH	WATTS	AMPS	VOLTS/PHASE	REMARKS
CUH-1	BERKO	FFCH	250	10.2	3000	14.4	208/1	1, 2, 3, 4, 5, 6, 7

REMARKS:
1. FURNISH CEILING MOUNTED UNIT HUNG FROM STRUCTURE WITH MFR'S INSTALLATION KIT.
2. UNIT SHALL BE UL LISTED, WITH UNIT MOUNTED DISCONNECT SWITCH AND SINGLE POINT POWER CONNECTION.
3. FACTORY INTEGRATED CONTROLS TO INCLUDE 24 VOLT CONTROL TRANSFORMER STANDARD, WALL MOUNTED THERMOSTAT, AIR PROOF SWITCH, THERMAL SAFETY SHUTOFF AND FAN DELAY.
4. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR/DISCIPLINE.
6. SEQUENCE OF OPERATIONS: CABINET UNIT HEATER SHALL ENERGIZE WHEN SPACE TEMPERATURE DROPS BELOW SETPOINT.
7. PROVIDE UNITS AS MANUFACTURED BY BERKO, QMARK, MARKEL OR OR PRE-APPROVED EQUAL.

FILTER/HOUSING SCHEDULE

TAG	BASIS OF DESIGN		CFM	FPM (MAX.)	FILTER AREA	FILTER DEPTH	RATED LEAKAGE	FILTER RATING	HOUSING				REMARKS
	MANUF.	MODEL							LENGTH	WIDTH	HEIGHT	WEIGHT	
FH-1	CAMFIL FARR	V-BANK GLIDE/PACK	5,500	500	6 SF	2"	<1%	MERV 8	36"	27-1/4"	27-3/4"	86#	1-8

REMARKS:
1. PROVIDE DUCT MOUNTED FILTER HOUSING WITH SIDE ACCESS IN VERTICAL OUTSIDE AIR DUCT DROP TO AIR HANDLING UNIT.
2. SUPPORT FILTER HOUSING FROM STRUCTURE. FILTER HOUSING SHALL NOT BE SUPPORTED FROM ADJACENT DUCTWORK.
3. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE DUCT TRANSITIONS ON INLET AND DISCHARGE AS REQUIRED.
5. PROVIDE ADEQUATE FILTER ACCESS CLEARANCE.
6. INSULATE FILTER HOUSING PER CONNECTED DUCT INSULATION SPECIFICATION.
7. PROVIDE HOUSING AND FILTERS PER SCHEDULED PERFORMANCE AND PHYSICAL PARAMETERS.
8. PROVIDE HOUSING AND FILTERS BY CAMFILL FARR, AAF FLANDERS, OR APPROVED EQUAL OF SAME STANDARD OF QUALITY AND DOCUMENTED HISTORY.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

TAG	MFR	MODEL	TYPE	FACE SIZE	NECK SIZE	CFM RANGE	MOUNT	MAX S.P.D.	MAX N.C.	REMARKS
A	TITUS	TDC	SUPPLY	24" x 24"	6" x 6" / 6"ø	0 - 125	CEILING	0.12	25	1, 2
					9" x 9" / 8"ø	126 - 275				
					12" x 12"/10"ø	276 - 375				
					14" x 14"/12"ø	376 - 550				
B	TITUS	TDC	SUPPLY	12" x 12"	6" x 6" / 6"ø	0 - 125	CEILING	0.12	25	1, 2
					9" x 9" / 8"ø	126 - 275				
C	TITUS	PAR	RETURN/ EXHAUST	24" x 24"	6" x 6"	0 - 125	CEILING	0.10	25	1, 2
					8" x 8"	126 - 225				
					10" x 10"	226 - 350				
					12" x 12"	351 - 550				
					15" x 15"	551 - 750				
					18" x 18"	751 - 1,100				
D	TITUS	PAR	RETURN/ EXHAUST	12" x 12"	6" x 6"	0 - 125	CEILING	0.10	25	1, 2
					8" x 8"	126 - 225				
E	TITUS	PAR	RET/EXH	24" X 8"	22" x 6"	0 - 150	CEILING	0.10	25	3
F	TITUS	T-700	DOOR GRILLE	NECK+2-1/4"	10" x 10"	0 - 150	DOOR	0.05	25	3

REMARKS:
1. PROVIDE SQUARE TO ROUND ADAPTER WHERE REQUIRED.
2. COORDINATE MOUNTING TYPE AND LOCATION WITH ARCHITECTURAL CEILING PLAN AND BUILDING PLANS.
3. PROVIDE MOUNTING SLEEVE WITH INSIDE DOOR FRAME.

CONDENSATE PUMP/RECEIVER SCHEDULE

TAG	BASIS OF DESIGN		PUMP					RECEIVER (GAL.)	PHYSICAL DATA				PIPING CONNECTIONS (NPT)					REMARKS
	MANUF.	MODEL	TYPE	GPM	FT HD	HP	V/PH		LENGTH	WIDTH	HEIGHT	WEIGHT	INLET	DISCH.	OVERFLOW	VENT	DRAIN	
SCP-1	SHIPCO	120ECD	DUPLEX	15	46	1/3	120/1	15	25"	25"	13"	-	2"	3/4"	1-1/4"	1-1/4"	1/2"	1-8
SCP-2	BECKETT	CB501UL	SIMPLEX	5	20	1/5	120/1	1	12"	6"	11"	18#	1-1/4"	1/2"	1"	1/2"	1/2"	1-7, 9

REMARKS:
1. PROVIDE FLOOR MOUNTED CONDENSATE PUMP/RECEIVER.
2. UNIT SHALL BE UL LISTED, WITH UNIT MOUNTED DISCONNECT SWITCH AND SINGLE POINT POWER CONNECTION.
3. FACTORY INTEGRATED CONTROLS TO INCLUDE INTEGRAL HIGH & LOW LEVEL SENSORS, THERMAL OVERLOAD PROTECTION, SAFETY SWITCH AND BMS/ATC ALARM INTERFACE.
4. PROVIDE CHECK VALVE IN DISCHARGE TO EXISTING CONDENSATE DRAIN PIPE (ABOVE), OVERFLOW TO FLOOR DRAIN AND VENT TO BUILDING EXTERIOR.
5. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SYSTEM PIPING DETAILS.
6. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR/DISCIPLINE.
7. SEQUENCE OF OPERATIONS: PUMP SHALL CONTROL AND OPERATE TO MAINTAIN RECEIVER LIQUID LEVEL.
8. PROVIDE DUPLEX CONDENSATE PUMP/RECEIVER BY SHIPCO, HOFFMAN/WATCHMAN, ARMSTRONG, SPIRAX/SARCO, WATSON MCDANIELS OR APPROVED EQUAL.
9. PROVIDE SIMPLEX CONDENSATE PUMP/RECEIVER BY LITTLE GIANT, BECKETT, HARTELL OR APPROVED EQUAL.

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · DAVID J. WEBER · 24GE04258100 · LICENSED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

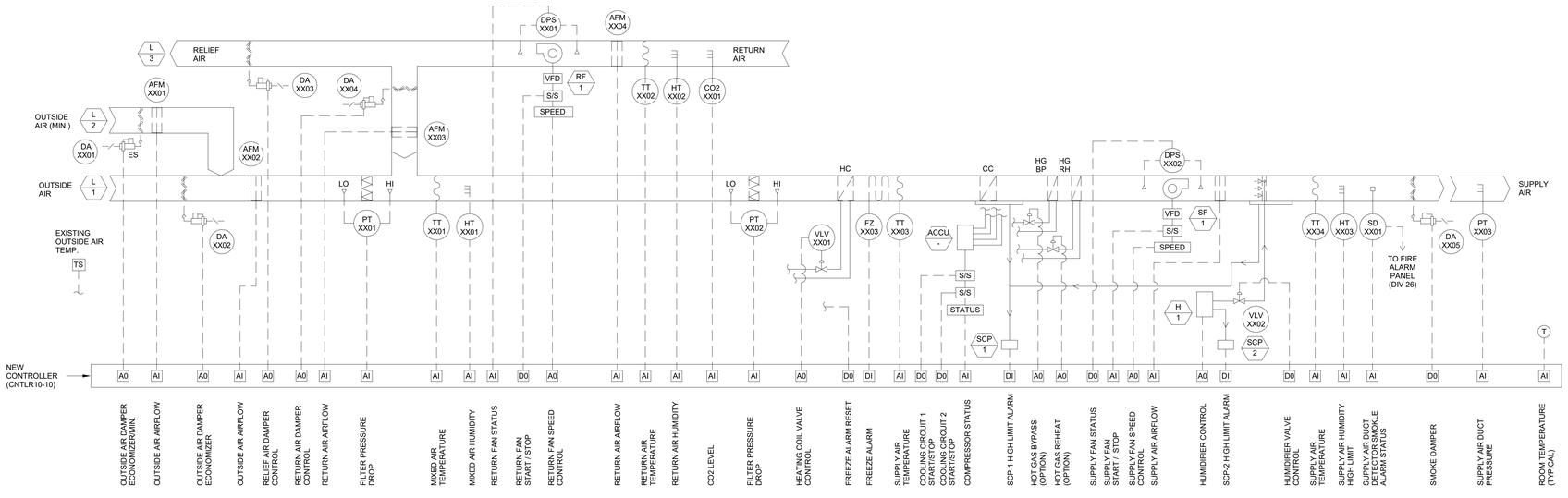
VA U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL SCHEDULES
Phase	FINAL BID DOCUMENTS
Project Title	UPGRADE PROSTHETIC LAB
Project Number	561-19-160
Building Number	1
Approved:	
	FULLY SPRINKLERED
Location	EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ
Issue Date	6/18/2021
Checked	DJW
Drawn	ACELA
Drawing Number	MH301

Page 34 of 43

C:\Users\tborger\Documents\20-USDVA-04 MEP_tborger3KHYN.rvt
7/9/2021 1:30:21 PM

VA FORM 08 - 6231



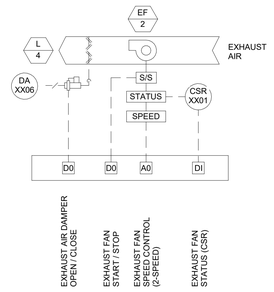
AIR HANDLING UNIT 1-AC-AA CONTROL DIAGRAM

SYSTEM: 1-AC-AA/1-ACCU-AA PROSTHETICS	HARDWARE																				SOFTWARE
	OUTPUT								INPUT								ALARMS				APPLICATION PROGRAMS
	DIGITAL				ANALOG				DIGITAL						ANALOG		DIGITAL		ANALOG		
OCCUPANCY TIME	CONTROL RELAY	SOLENOID	START / STOP	OFF/AUTO	DAMPER CONTROL	CONTROL SETPOINT ADJUSTMENT	VALVE CONTROL	POSITION ADJUSTMENT	PRESSURE	DIFFERENTIAL PRESSURE SWITCH	DIFFERENTIAL PRESSURE FLOW SWITCH	AUXILIARY CONTACT	PULSE	SWITCH STATUS	CURRENT SENSING RELAY	TEMPERATURE (°F)	HUMIDITY (%)	CO2 LEVEL	FLOW	DIFFERENTIAL PRESSURE	CONTACT CLOSURE	HIGH LIMIT	LOW LIMIT	RUN TIME	LOW LEVEL	HIGH LIMIT	LOW LIMIT	HIGH LIMIT	LOW LEVEL	SCHEDULE START/STOP	OPTIMUM START/STOP	DUTY CYCLING	DEMAND LIMITING	DAY/NIGHT SETBACK	ECONOMIZER CYCLING	COIL(S) CONTROL	POSITION ADJUSTMENT	SPACE TEMPERATURE RESET	FAILURE - ALARM
GRAPHIC DISPLAY ●																					
POINT DESCRIPTION																					
OUTSIDE AIR DAMPER (MINIMUM / ECONOMIZER)																					
OUTSIDE AIR AIRFLOW																		●			
OUTSIDE AIR DAMPER (ECONOMIZER)					●																
OUTSIDE AIR AIRFLOW																		●			
RELIEF AIR DAMPER (ECONOMIZER)					●																
RETURN AIR DAMPER (ECONOMIZER)					●																
RETURN AIR AIRFLOW																		●			
FILTER PRESSURE DROP																					
MIXED AIR TEMPERATURE																					
MIXED AIR HUMIDITY																					
RETURN FAN STATUS																					
RETURN FAN START/STOP		●																			
RETURN AIR AIRFLOW						●															
RETURN AIR TEMPERATURE																					
RETURN AIR HUMIDITY																					
CO2 LEVEL (OPTION)																					
FILTER PRESSURE DROP																					
HEATING COIL CONTROL VALVE							●														
FREEZE ALARM RESET	●																				
FREEZE STAT ALARM																					
SUPPLY AIR TEMPERATURE																					
COOLING CIRCUIT 1 - START / STOP		●																			
COOLING CIRCUIT 2 - START / STOP		●																			
COMPRESSOR STATUS																					
CONDENSATE PUMP SCP-1 HIGH LEVEL ALARM																					
HOT GAS BYPASS (OPTION)							●														
HOT GAS REHEAT (OPTION)							●														
SUPPLY FAN START/STOP		●																			
SUPPLY AIR AIRFLOW						●															
HUMIDIFIER CONTROL	●																				
CONDENSATE PUMP SCP-2 HIGH LEVEL ALARM																					
HUMIDIFIER VALVE CONTROL							●														
SUPPLY AIR TEMPERATURE																					
SUPPLY AIR HUMIDITY																					
SUPPLY AIR DUCT DETECTOR																					
SMOKE DAMPER CONTROL					●																
SUPPLY AIR DUCT PRESSURE																					
EXHAUST AIR DAMPER (EF-2)	●																				
EXHAUST FAN START/STOP (EF-2)		●																			
EXHAUST FAN SPEED (EF-2)					●																
EXHAUST FAN STATUS (EF-2)																					
VAV-BOX REHEAT COIL							●														
VAV-BOX AIRFLOW																					
VAV-BOX DAMPER					●																
VAV-BOX SPACE TEMPERATURE																					

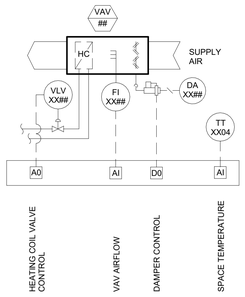
AIR HANDLING UNIT (1-AC-AA) AIR-COOLED CONDENSING UNIT (1-ACCU-AA)

EXHAUST FAN (EF-2)

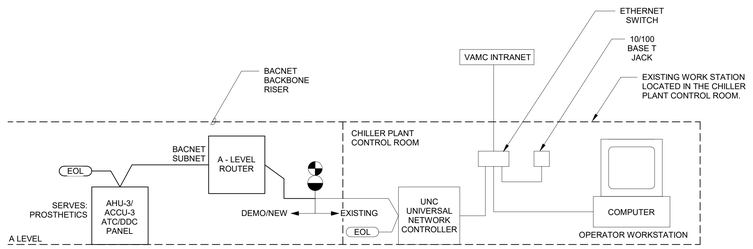
VAV-BOXES (VAV-#) TYPICAL



EXHAUST FAN EF-2 CONTROL DIAGRAM



VAV-BOX CONTROL DIAGRAM



DDC CONTROL SYSTEM ARCHITECTURE DIAGRAM

NOTES:

1. DISCONNECT, REMOVE AND REPLACE EXISTING A LEVEL PROSTHETICS CONTROLS AS OUTLINED ON CONSTRUCTION DOCUMENTS.

MECHANICAL CONTROLS NOTES

1. MECHANICAL CONTROL SYSTEM SCOPE OF WORK SHALL BE PERFORMED BY BY DELTA CONTROLS:
   10 CENTRE DRIVE, MONROE,NEW JERSEY 08831
   OFFICE: (732) 355-7177
   CONTACT: HARRIS LITMAN (908) 331-9518
2. COORDINATE CONTROL SYSTEM ARCHITECTURE WITH VA MEDICAL CENTER - HVAC UPGRADES (APRIL 2011) BY DELTA CONTROLS - INTEGRATED BUILDING SYSTEMS.
3. THE DDC CONTROL SYSTEM MUST BE "OPEN PROTOCOL" AND "INTEROPERABLE" TO INTERFACE WITH OTHER MANUFACTURER'S PRODUCTS.
4. THE VA CAMPUS WIDE CONTROL SYSTEM MUST BE ABLE TO EXPAND IN THE FUTURE WITH SEEMLESS INTERFACE WITH OTHER CONTROL SYSTEM MANUFACTURER'S PRODUCTS AND PROGRAMMING.

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · DAVID ALLEN BROWN · 24GE04258100 · PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL CONTROLS	Phase: FINAL BID DOCUMENTS	Project Title: UPGRADE PROSTHETIC LAB	Project Number: 561-19-160
Approved:	FULLY SPRINKLERED	Location: EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ	Building Number: 1
		Issue Date: 6/18/2021 / Checked: DJW / Drawn: ACELA	Drawing Number: MI401

Page 35 of 43

VA FORM 08 - 6231

C:\Users\tborger\Documents\20-USDVA-04 MEP_tborger3KHYN.rvt

7/9/2021 1:30:23 PM

ELECTRICAL GENERAL NOTES

1. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
2. ALL NEW WALL MOUNTED ELECTRICAL DEVICES ARE TO BE INSTALLED FLUSH IN WALL UNLESS OTHERWISE NOTED. ALL ELECTRICAL CONDUIT SHALL CONCEALED BEHIND FINISHED WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED. THE COST TO CUT ANO PATCH WALLS SHALL BE THE RESPONSIBILITY OF THE TRADE REQUIRING THE CUTTING.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS REQUIRED FOR ELECTRICAL WORK. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES.
4. PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW OR RELOCATED WALL OR CEILING MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS.
5. COORDINATE ALL SHUT-DOWNS OF EXISTING ELECTRICAL SYSTEMS WITH OWNER A MINIMUM OF FOURTEEN (14) WORKING DAYS IN ADVANCE. ALL SHUT-DOWNS SHALL OCCUR DURING WEEKENDS OR BETWEEN 8:00PM AND 7:00AM ON WEEKDAYS ("OFF-HOURS"). INCLUDE ALL PREMIUM TIME CHARGES IN BID.
6. ALL NOISE GENERATING OPERATIONS, INCLUDING CUTTING OF CEILINGS, WALLS AND FLOORS, CORING, DRILLING, ETC. SHALL BE SCHEDULED DURING WEEKENDS OR BETWEEN 8:00PM AND 7:00AM ON WEEKDAYS("OFF HOURS"), INCLUDING ALL PREMIUM TIME CHARGES IN BID.
7. CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT COMPLETE PER MANUFACTURER'S WIRING DIAGRAMS AND INSTRUCTIONS. COORDINATE WITH MECHANICAL CONTRACTOR AND VERIFY LOCATION, VOLTAGE, AMPS, NO. OF WIRES, AND PROTECTION REQUIREMENTS PRIOR TO ROUGH-IN. CONTACT ENGINEER WITH ANY DISCREPANCIES FROM DESIGN DRAWINGS.
8. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION TO MECHANICAL EQUIPMENT OR OTHER EQUIPMENT WHICH MAY PROPAGATE VIBRATION.
9. ALL LAMPS THAT WILL NOT BE REUSED SHALL BE DISPOSED OF IN ACCORDANCE WITH EPA STANDARDS, AND WRITTEN EVIDENCE OF PROPER DISPOSAL SHALL BE FURNISHED TO THE OWNER.
10. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE PHASING REQUIREMENTS OF THE PROJECT. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE BID SUBMITTAL.
11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING TO ADEQUATELY LIGHT ALL CONSTRUCTION AREAS, TEMPORARILY PARTITIONED AREAS, AND EXIT CORRIDORS MAINTAINED DURING CONSTRUCTION.
12. DEFINITION: "PROVIDE" - FURNISH, INSTALL AND CONNECT COMPLETE.
13. PROJECT AND PHASING SCOPE LINES INDICATE WHERE GENERAL CONSTRUCTION BOUNDARIES OCCUR. ELECTRICAL WORK ANO UTILITY TIE-INS MAY OCCUR OUTSIDE OF SCOPE LINES.

ABBREVIATIONS

AC	ABOVE COUNTER AT 9" UNLESS OTHERWISE NOTED
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AT	AMP TRIP
BC	BELOW COUNTER AT 18"AFF UNLESS OTHERWISE NOTED
BFC	BELOW FINISHED CEILING
CB	CIRCUIT BREAKER
COR	CONTRACTING OFFICERS REPRESENTATIVE
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
PROVIDE	DEFINITION: FURNISH, INSTALL AND CONNECT COMPLETE.
E	EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, CONDUIT, ETC. - TO REMAIN
RE	EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, ETC. - TO BE REMOVED AND REINSTALLED AT NEW LOCATION - EXTEND CONDUIT AND WIRING AS REQUIRED
ITD	INFORMATION TECHNOLOGY DEPARTMENT
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
N	NEW EQUIPMENT. (OUTLET, DEVICE, ETC.)
NEC	NATIONAL ELECTRICAL CODE
NF	NOT FUSED
OFE	OWNER FURNISHED EQUIPMENT
TC	TELECOMMUNICATIONS CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR
TV	TELEVISION
VDC	VOICE/DATA CONTRACTOR
VFD	VARIABLE FREQUENCY DRIVE
WM	WIRE-MOLD
WP	WEATHERPROOF ENCLOSURE - NEMA 4

LIGHTING CONTROL LEGEND

- $ — 20A-1P-120/277V WALL SWITCH . MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED.
- $_3$ — 20A-3WAY-120/277V WALL SWITCH MOUNTED AT 48" UNLESS OTHERWISE NOTED.
- $_T$ — THERMAL SWITCH. REFER TO MECHANICAL PLANS FOR DETAILS.
- $_{PH}$ — 120/277V SINGLE POLE, LARGE PADDLE SWITCH WITH SMALL DIMMER SLIDER FOR 0-10V DIMMING CONTROL, AUTOMATICALLY RETURNS TO PRESET LEVEL - ENGRAVING LABEL - MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED. VERIFY ALL SWITCHES ARE COMPATIBLE WITH FIXTURE TYPE.
- $_W$ — 120/277V WALL SWITCH WITH PASS VE INFRARED OCCUPANCY SENSOR MOUNTED AT 48' UNLESS OTHERWISE NOTED, CONFIGURED FOR AUTO-OFF/MANUAL-ON OPERATION. MOUNTED AT 48" UNLESS OTHERWISE NOTED.
- RC — LIGHTING ROOM CONTROLLER - INTEGRATES LOW-VOLTAGE DIMMING SWITCH AND OCCUPANCY SENSOR (WHERE SHOWN). PROVIDES DIMMING AND CONTROL OUTPUT TO LIGHTING FIXTURES. CABLING (CAT6A) TO CONNECT TO SWITCHING AND OCCUPANCY AND UTILIZES STANDARD LOW-VOLTAGE CABLING TO CONNECT TO FIXTURE'S DIMMING DRIVER. REFER TO OCCUPANCY SENSOR DIAGRAM FOR ADDITIONAL INFORMATION. ROOM CONTROLLER, OCCUPANCY SENSOR, AND OVER-RIDE SWITCH SHALL BE A COMPLETE SYSTEM FROM A SINGLE MANUFACTURER.
- $_{LV}$ — LOW VOLTAGE SINGLE POLE LARGE PADDLE SWITCH. MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED. VERIFY ALL SWITCHES ARE COMPATIBLE WITH FIXTURE TYPE.
- $_{DLV}$ — LOW VOLTAGE SINGLE POLE 0-10VDC LARGE PADDLE SWITCH WITH SMALL DIMMER SLIDER, AUTOMATICALLY RETURNS TO PRESET LEVEL - MOUTED AT 48" AFF UNLESS OTHERWISE NOTED. VERIFY ALL SWITCHES ARE COMPATIBLE WITH FIXTURE TYPE.
- OS — DUAL TECHNOLOGY OCCUPANCY SENSOR - CONNECT TO ROOM CONTROLLER. PROVIDE FORM C RELAY IN RELAY UNIT IN ALL OCCUPANCY SENSORS FOR HVAC SWITCHING. COORDINATE MOUNTING WITH MANUFACTURER'S RECOOMENDATIONS.

LIGHTING FIXTURE LEGEND

- RECESSED LED 2'X2' LIGHTING FIXTURE CONNECTED TO NORMAL CIRCUIT AS INDICATED - TYPE AS SPECIFIED IN SCHEDULE.
  NL - NIGHT LIGHT, CONNECT TO UNSWITCHED LIFE SAFETY CIRCUIT. REFER TO LIGHTING GENERAL NOTES FOR DETAILED CIRCUITING INFORMATION.
- RECESSED LED 2'X2' LIGHTING FIXTURE - **CONNECTED TO CRITICAL LIGHTING CIRCUIT** - TYPE AS SPECIFIED IN SCHEDULE.
- 4' PENDANT LIGHTING FIXTURE **CONNECTED TO CRITICAL CIRCUIT** - TYPE AS SPECIFIED IN SCHEDULE.
- 4' LED STRIP LIGHTING FIXTURE. **CONNECT TO NORMAL POWER.**
  NL - NIGHT LIGHT, CONNECT TO UNSWITCHED LIFE SAFETY CIRCUIT. REFER TO LIGHTING GENERAL NOTES FOR DETAILED CIRCUITING INFORMATION.
- 6" SQUARE DOWNLIGHT - TYPE AS SPECIFIED IN SCHEDULE.
- EXIT SIGN - WALL MOUNTED - TYPE AS SPECIFIED IN SCHEDULE OR AS INDICATED ON PLANS.
  CONNECT TO UNSWITCHED LIFE SAFETY CIRCUIT. REFER TO LIGHTING KEYED NOTE FOR DETAILED CIRCUITING INFORMATION.

* REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.

UPPER CASE LETTER INDICATES LIGHTING FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.
LOWER CASE LETTER INDICATES GROUPING.

FIRE ALARM SYSTEM LEGEND

- FS — ADDRESSABLE MANUAL PULL STATION - DOUBLE ACT ON PUSH-PULL, SEW-RECESSED, MOUNTED AT 48" AFF.
- S — DUAL COIL CEILING SPEAKER. COMBINATION PA/FA TYPE. REFER TO FIRE ALARM WIRING DIAGRAM.
- SOMKE DETECTOR
- DUCT SMOKE DETECTOR - ADDRESSABLE INTELLIGENT PHOTOELECTRIC DETECTOR, SAMPLING TUBES AND PROGRAMMABLE RELAY BASE. PROVIDE DUCT DETECTOR TEST/RESET SWITCH WITH REMOTE INDICATOR LAMP FOR EACH DUCT DETECTOR - WALL MOUNTED AT 7'-6" AFF.
- TS — DUCT SMOKE DETECTOR REMOTE TEST SWITCH
- DH — ELECTROMAGNETIC DOOR HOLDER
- FD — FIRE DAMPER

NOTE: PROVIDE A 2-GANG MINIMUM BACKBOX FOR ALL OF THE ABOVE FIRE ALARM DEVICES. ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE INSTALLED IN 3/4" MINIMUM SIZE COMPLETE CONDUIT SYSTEM WITH COLOR CODED WIRING AS INDICATED ON SHOP DRAWINGS PREPARED BY NOTIFIER - MAINTAIN VA COLOR CODING. ALL NETWORK AND IDNET CABLES SHALL BE "COMMUNICATION GRADE" TYPE CABLE. FURNISH, INSTALL AND CONNECT ALL FIRE ALARM DEVICES IN ACCORDANCE WITH WIRING DIAGRAMS PREPARED BY NOTIFIER.

WIRING DEVICE LEGEND

- 20A-125V, HOSPITAL GRADE, GROUNDED DUPLEX RECEPTACLE, MOUNTED IN (1) GANG BACKBOX AT 18" UNLESS OTHERWISE NOTED. **CONNECTED TO NORMAL POWER**
- 20A-125V, HOSPITAL GRADE, GROUNDED DUPLEX RECEPTACLE, FLOOR MOUNTED. **CONNECTED TO NORMAL POWER**
- 20A-125V, HOSPITAL GRADE, GROUNDED QUADRUPLEX RECEPTACLES, MOUNTED IN (2) GANG BACKBOX AT 18" UNLESS OTHERWISE NOTED. **CONNECTED TO NORMAL POWER.**
- 20A-125V, HOSPITAL GRADE. GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE, MOUNTED IN A (2) GANG BACKBOX AT 18" UNLESS OTHERWISE NOTED. **CONNECTED TO NORMAL POWER.**
  WP= WEATHER PROOF
- TV — 20A-125V, HOSPITAL GRADE. GROUNDED DUPLEX RECEPTACLE. MOUNTED IN (2) GANG BACKBOX. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. **CONNECTED TO NORMAL POWER.**
- TR — 20A-125V, HOSPITAL GRADE, TAMPER RESISTANT GROUNDED DUPLEX RECEPTACLE, MOUNTED IN (2) GANG BACKBOX AT 18" UNLESS OTHERWISE NOTED. **CONNECTED TO NORMAL POWER.**
- SAME DEVICE TYPES AS INDICATED ABOVE EXCEPT SHADING INDICATES DEVICE IS **CONNECTED TO CRITICAL POWER.**
- SPECIAL OUTLETS - TYPES AS NOTED ON PLANS
  A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R.
  B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R.
  C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R.
  D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.
  E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.
  F = 208V, 30A, 3 PHASE, 3-POLE 4W, NEMA 15-30R.
  G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15-30R.
  H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15-60R.
- SPECIAL OUTLETS - FLOOR MOUNTED.TYPES AS NOTED ON PLANS
- PT — FLUSH STYLE FIRE-RATED POKE-THRU - MULTI-SERVICE POKE-THRU FOR CONNECTION TO POWERED FURNITURE. COORDINATE POWER AND DATA QUANTITIES ANO REQUIREMENTS WITH FURNITURE VENDOR. VERIFY FINISH ON COVER PLATE WITH ARCHITECT. PROVIDE CORE DRILL THRU FLOOR AS REQUIRED AND SEAL FLOOR PENETRATIONS TO MAINTAIN FIRE RATING.
- DISCONNECTING SWTCH, NON-FUSED. REFER TO PLAN NOTES FOR DETAILED RATINGS.
- DISCONNECTING SWITCH, FUSED. REFER TO PLAN NOTES FOR DETAILED RATINGS.

SECURITY SYSTEM LEGEND

- M PTZ — SECURITY CAMERA - FIXED DOME CAMERA CEILING MOUNTED. VARIFOCAL, 80 DEG - 22 DEG VIEWING ANGLE RANGE, NETWORK-ENABLED, 1280 X 800 (1MP) RESOLUTION, H.264 VIDEO COMPRESSION, 30 FRAMES PER SECOND, TAMPERING ALARM, POWER OVER ETHERNET, PROGRESSIVE SCAN, TAMPER RESISTANT CASING PROVIDE DROP CEILING MOUNTING ACCESSORIES TO MOUNT DOME FLUSH WITH CEILIN. DIRECTIONAL ARROW(S) INDICATE GENERAL DIRECTION OF CAMERA'S FIELD OF VIEW.
- N T — TOILET STATION WITH PULL CORD - NYLON PULL-CORD, LED INDICATOR, CANCEL BUTTON, WATER-RESISTANT - MOUNTED AT 40" AFF T TOILET INTO 4"SQ X 2 1/2" MIN. DEPTH BOX FITTED WITH 1-GANG RAISED PLASTER RING.
- N L — DOME LIGHT WITH 6 LED TYPES WITH MINI HORN - CEILING MOUNTED INTO 4"SQ X 3 1/2" MIN. DEPTH BOX FITTED WITH 1-GANG RAISED PLASTER RING.
- P — PANIC ALARM PUSHBUTTON - MOUNTED TO UNDERSIDE OF DESK. PROVIDE PUSH BUTTON AND CONNECTION PER HOSPITAL STANDARDS. CONNECT TO EXISTING SECURITY ACCESS SYSTEM.

24HR DOOR HOLDER

NOTE:
1. PROVIDE MINIMUM SIZE BACK BOX AS REQUIRED FOR ALL OF THE ABOVE SECURITY DEVICES AND INSTALL IN 3/4"C MINIMUM COMPLETE CONDUIT SYSTEM TO JUNCTION BOX ABOVE FINISHED CEILING.
2. REFER TO SPECIFICATIONS DIVISION 28 FOR FURTHER DETAILS REGARDING THE SECURITY SYSTEM.
3. MOUNT DEVICES AT MOUNTING HEIGHTS LISTED ABOVE UNLESS OTHERWISE NOTED ON THE FLOOR PLANS. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.
4. ALL SECURITY SYSTEM ROUGH-INS, CONDUIT, WIRING AND EQUIPMENT/DEVICES SHALL BE PROVIDED BY CONTRACTOR.
5. FURNISH, INSTALL AND CONNECT ALL SECURITY DEVICES IN ACCORDANCE WITH SYSTEM PROVIDER. PROVIDE ALL ADDITIONAL COMPONENTS AS NECESSARY FOR A COMPLETE SYSTEM. SUBMIT ALL DEVICES WITH SHOP DRAWINGS SUBMITTAL.

TELECOMMUNICATION SYSTEM LEGEND

- TELECOMMUNICATIONS OUTLET "TCO" MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS OUTLET DETAILS ON SUBSEQUENT DRAWING FOR REQUIREMENT. # REFERS TO THE NUMBER OF CABLE/JACKS TERMINATED IN EACH FACEPLATE. ADDITIONAL JACK LOCATIONS SHALL BE BLANKED FOR FUTURE USE.
- WIRELESS ACCESS OUTLET - MOUNTED ABOVE FINISHED CEILING. WIRELESS ACCESS DEVICES PROVIDED BY OWNER. COORDINATE WITH VA OIT.
  "C" DENOTES WIRELESS CELLULAR NETWORK ANTENNA. COORDINATE REMOVAL AND REPLACEMENT OF CELLULAR ANTENNAS WITH VA OIT.
- CEILING MOUNTED ANTENNA
- TV — MASTER ANTENNA TELEVISION'OATA OUTLET (MATV) - CEILING MOUNTED OR WALL MOUNTED AT 12" BFC UNLESS OTHERWISE NOTED. PROVIDE 2-GANG FLUSH BOX WITH 1 GANG RAISED COVER WITH 1" CONDUIT TO ABOVE FINISHED CEILING - STUB AND BUSH. PROVIDE NEW MATV OUTLET TO MATCH EXISTING TYPE AND INSTALL (1) RG-6 COAX CABLE AND CAT6A CABLE PER OUTLET TO EXISTING NETWORK CABLE TAP. CONNECT EACH CABLE AT OUTLET AND AT NETWORK TAP. SUPPORT CABLES USING "J" HOOKS ON CENTER OR CABLE TRAY, WHERE AVAILABLE. TEST COMPLETE INSTALLATION IN ACCORDANCE WITH VA STANDARDS COORDINATE WORK WITH VA ENGINEERING DEPARTMENT REFER TO TELECOMMUNICATIONS OUTLET DETAILS ON SUBSEQUENT DRAWINGS FOR ADDITIONAL INFORMATION WORK REQUIREMENTS.
- J — JUNCTION BOX - SEE ELECTRICAL LEGEND FOR ADDITIONAL INFORMATION.
  SC- SINK CONTROL
  TS- TOILET SENSOR

COMMUNICATION GENERAL NOTES

1. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
2. ALL NEW WALL MOUNTED TECHNOLOGY DEVICES ARE TO BE INSTALLED FLUSH IN WALL UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE CONCEALED BEHIND FINISHED WALLS AND ABOVE FINISHED CEILINGS UNLESS OTHERWISE NOTED. THE COST TO CUT AND PATCH WALLS SHALL BE THE RESPONSIBILITY OF THE TRADE REQUIRING THE CUTTING.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS REQUIRED FOR ELECTRICAL WORK. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES.
4. WHEN POWER AND DATA RECEPTACLES ARE INTENDED TO BE ADJACENT, THEY SHOULD BE PLACED NO MORE THAN 1'-0" APART.

ELECTRICAL DRAWING LIST

E001	ELECTRICAL LEGENDS, ABBREVIATIONS AND NOTES
ED101	ELECTRICAL POWER AND LIGHTING DEMOLITION PLANS
E101	ELECTRICAL POWER AND LIGHTING NEW WORK PLANS
E102	ELECTRICAL EQUIPMENT AND AUXILIARY NEW WORK PLANS
E103	ELECTRICAL TELECOM AND FIRE ALARM PLANS
E201	ELECTRICAL PANEL SCHEDULES AND SINGLE LINE DIAGRAM
E301	ELECTRICAL DETAILS
E302	ELECTRICAL DETAILS

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY — DAVID ALLEN BROWN — 24GE04258100 — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

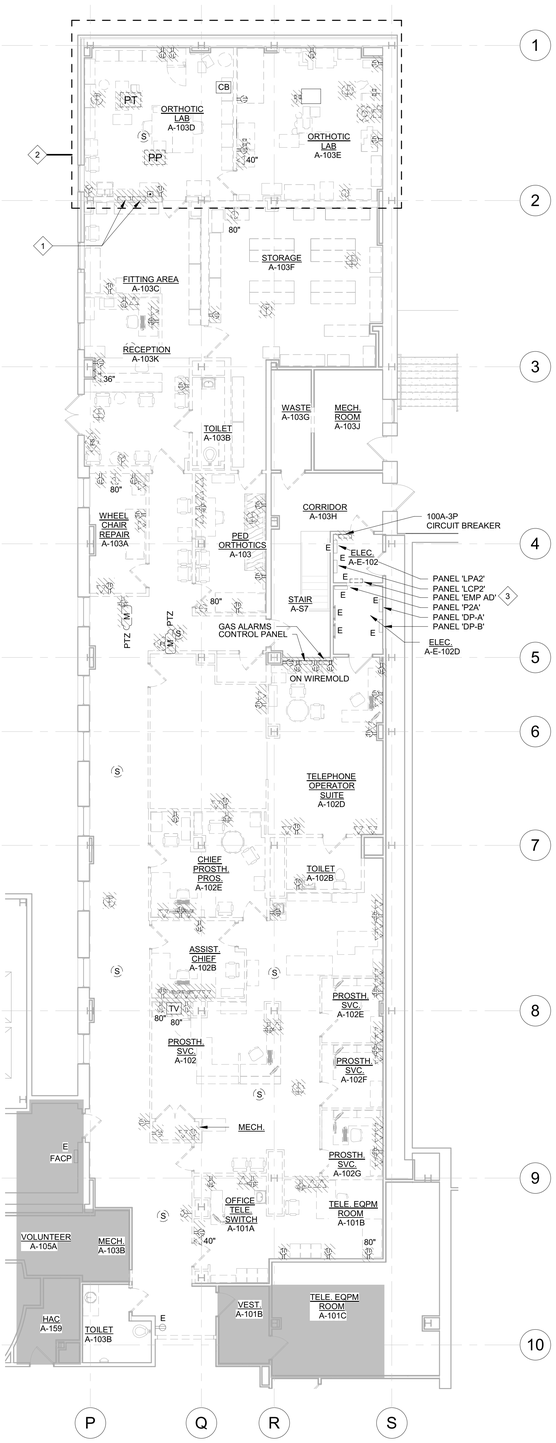
VA U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL LEGENDS, ABBREVIATIONS AND NOTES
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	UPGRADE PROSTHETIC LAB
Location	EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ
Issue Date	6/18/2021
Checked	DJW
Drawn	ACELA
Project Number	561-19-160
Building Number	1
Drawing Number	E001

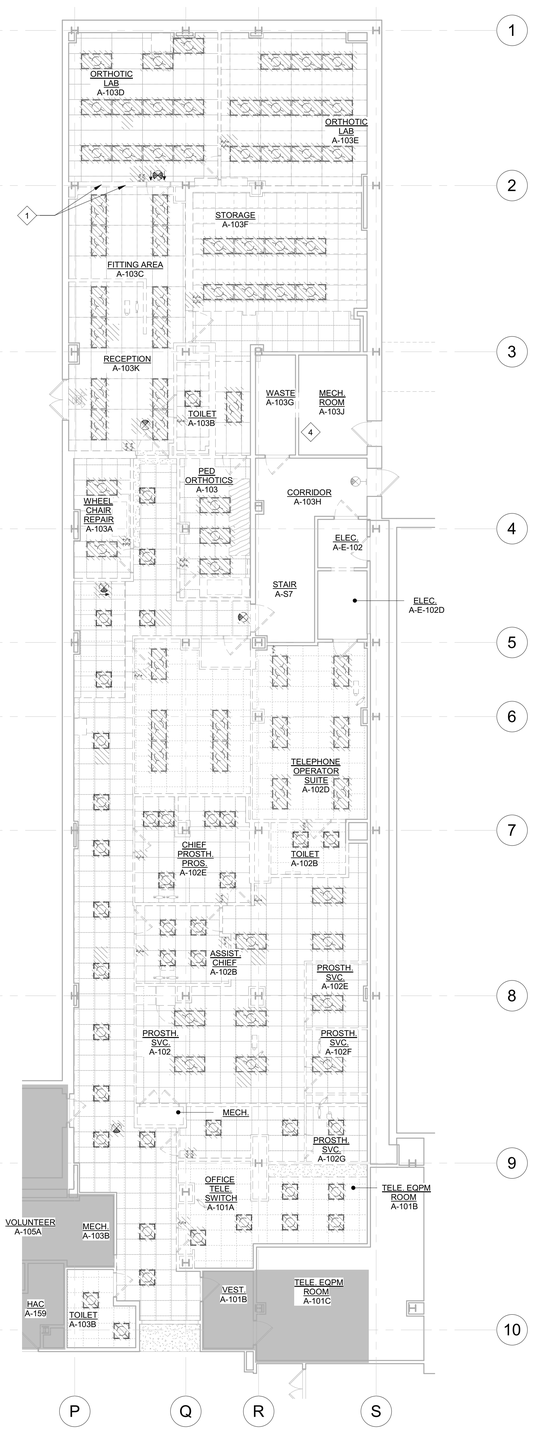
VA FORM 08 - 6231

C:\Users\bzhang.ACELA\OneDrive - Acela Architects + Engineers, P.C\Documents\00-USDVA-04 MEP_bzhangYDJ4Q.rvt

6/17/2021 11:40:29 AM



1 POWER PLAN DEMOLITION
1/8" = 1'-0"



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

ELECTRICAL DEMOLITION LEGEND

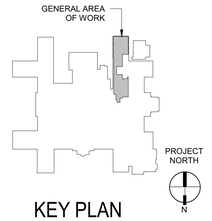
- ELECTRICAL PANEL
  FACP=FIRE ALARM CONTROL PANEL
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- SIMPLEX RECEPTACLE
- 220V SPECIAL RECEPTACLE
- WIFI ACCESS POINT
- ANTENNA
- FUSED DISCONNECT
- MOTOR WITH DISCONNECT
- 2' X 4' LIGHTING FIXTURE
- 2' X2' LIGHTING FIXTURE
- EXIT SIGN, CEILING MOUNTED
- PP — ELECTRICAL POWER POLE
- PT — ELECTRICAL POKE THRU
- CB — ENCLOSED CIRCUIT BREAKER
- $ — SINGLE POLE TOGGLE SWITCH
- (S) — CELING MOUNTED SPEAKER
- M PTZ — SECURITY CAMERA
- PUSH BUTTON
- DEMOLITION HATCH. REMOVE EQUIPMENT BACK TO SOURCE AND MARK AS 'SPARE'

ELECTRICAL GENERAL DEMOLITION NOTES

1. EXISTING LIGHTING FIXTURES, RECEPTACLES, SPECIAL SYSTEMS OUTLETS, CONDUIT, WIRING ETC SHOWN WITHOUT INDICATIONS IN SCOPE SHALL BE DISCONNECTED AND DEMOLISHED. EXISTING CIRCUITRY SHALL BE REMOVED BACK TO SOURCE AND MARK 'SPARE'. ELECTRICAL EQUIPMENT SHOWING 'X' INDICATES EXISTING TO REMAIN. ELECTRICAL EQUIPMENT SHOWING 'RE' INDICATES EXISTING TO BE RELOCATED. THE CONTRACTOR SHALL FIELD VERIFY THE NATURE AND EXTENT OF ALL DEMOLITION WORK AND SHALL INCLUDE COST FOR THE SAME IN THE BID SUBMITTAL.
2. ALL EXISTING REMOVED ELECTRICAL EQUIPMENT, DEVICES, ETC. THAT ARE NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
3. REFER TO ELECTRICAL SYMBOL LEGENDS FOR ALL SYMBOL DESIGNATIONS.
4. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING ELECTRICAL SYSTEM COMPONENTS IN AREAS NOT BEING REMODELED UNLESS OTHERWISE NOTED. PROVIDE ALL CONDUIT AND WIRING EXTENSIONS NECESSARY TO ACHIEVE SAME.
5. CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL DEMOLITION WORK WITH THE GENERAL AND MECHANICAL CONTRACTORS, AND SHALL DISCONNECT ALL REQUIRED CIRCUITS IN A TIMELY MANNER.
6. CONTRACTOR SHALL CONFIRM THE EQUIPMENT IN THE EXISTING LAB AREA TO REMAIN OR TO BE DEMOLISHED PRIOR TO ROUGH-IN.

ELECTRICAL KEYED PLAN DEMOLITION NOTES

1. PANEL A & B TO BE REMOVED AND REPLACED WITH NEW AT NEW LOCATIONS. REFER TO POWER PLAN NEW WORK FOR DETAILS.
2. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR EQUIPMENT LIST AND DETAILS. CONTRACTOR SHALL RETURN DEMOLISHED EQUIPMENT BACK TO VA COR FOR FURTHER INSTRUCTIONS.
3. PANEL 'EMP AD' SHALL BE REMOVED/REINSTALLED BY OTHERS.
4. EXISTING WALL MOUNTED LIGHTING FIXTURE AND CONDUIT SHALL BE DEMOLISHED. COORDINATE WITH COR TO REMOVE THE CIRCUIT BACK TO SOURCE AND MARK AS 'SPARE' OR RELOCATE THE LIGHTING FIXTURE TO NEW LOCATION.



KEY PLAN

Revisions:	Date:

CONSULTANTS

ARCHITECT/ENGINEER OF RECORD

acela
architects + engineers
acela architects + engineers, pc
2633 Moravian Ave.
Allentown, PA 18103
office: 610.365.4023
website: www.acela-ae.com
email: info@acela-ae.com

STAMP

STATE OF NEW JERSEY · DAVID ALLEN BROWN · 24GE04258100 · PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL POWER AND LIGHTING DEMOLITION PLANS
Approved:	
Phase	FINAL BID DOCUMENTS
	FULLY SPRINKLERED
Project Title	UPGRADE PROSTHETIC LAB
Location	EAST ORANGE VAMC 385 TREMONT AVE, EAST ORANGE, NJ
Issue Date	6/18/2021
Checked	DJW
Drawn	ACELA
Project Number	561-19-160
Building Number	1
Drawing Number	ED101

VA FORM 08 - 6231

C:\Users\bzhang.ACELA\OneDrive - Acela Architects + Engineers, P.C\Documents\20-USDVA-04 MEP_bzhang\YDJHQ.rvt

7/1/2021 9:48:39 AM