VA PROVIDE HIGH LEVEL DISINFECTION ROOM FOR SPS AT SAN JUAN CAMPUS

SAN JUAN, PUERTO RICO
CONTRACT NO. 36C24822C0087
DESIGN SERVICES PROJECT: 672-22-810

PROJECT LOCATION: VA CARIBBEAN HEALTHCARE SYSTEM
10 CALLE CASIA - ADM. BLDG. SUITE 4M456
SAN JUAN, PR 00921-3201

ISSUING OFFICE:
DEPARTMENT OF VETERANS AFFAIRS
NETWORK CONTRACTING OFFICE 8 (NC08)
CONSTRUCTION TEAM 2
ANA G. ALVARADO, NCO 8 CONTRACTING OFFICER

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET

Phase: CD(100%CD-ISSUE FOR BID)

Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS

Project Number: 672-22-810

Building Number: 1

Approved:

FULLY SPRINKLERED

Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201

Issue Date: 04/22/2024

Checked: RSM

Drawn: PJG

Drawing Number: GI-001

4/22/2024 11:52:32 AM

VA FORM 08 - 6231

SHEET INDEX

ABBREVIATIONS

A		CPT	CARPET	FF&E	FURNITURE, FIXTURE, AND EQUIPMENT	KPA	KILOPASCALS	P		SS	SERVICE SINK / SANITARY SEWER
A/C	AIR CONDITIONING	CR	CRASH RAIL	FH	FIRE HYDRANT	KS	KITCHEN SINK	P	PAINT / PUMP / PENDANT	SSM	SOLID SURFACE MATERIAL
AB	ANCHOR BOLT / AIR BLENDER	CS	CONCRETE SEALER	FHC	FIRE HOSE CABINET	KV	KILOVOLT	PA	PASCAL	SSO	STORM SEWER OVERFLOW
ABS	ACRYLONITRILE-BUTADIENE-STYRENE	CSF	CUBIC FEET PER SECOND	FIN	FINISH	KVA	KILOVOLT AMPERE	PART	PARTITION	SST	STAIR TREAD
AC	ALTERNATING CURRENT / AIR COMPRESSOR	CT	CERAMIC TILE / COOLING TOWER	FIX	FIXTURE	KW	KILOWATTS	PAVT	PAVEMENT	SSTL	STAINLESS STEEL
ACP	ASBESTOS CEMENT PIPE	CTB	CERAMIC TILE BASE	FL	FLOOR	L		PC	POINT OF CURVATURE / PRIVACY CURTAIN	STA	STATION
ACU	AIR CONDITIONING UNIT	CTF	CERAMIC TILE FLOOR	FM	FORCE MAIN / FACTORY MUTUAL	L	LITER	PCF	POUNDS PER CUBIC FOOT	STD	STANDARD
AD	AREA DRAIN	CTR	CENTER	FP	FIREPROOFING / FIRE PUMP	LA	LABORATORY AIR	PED	PEDESTAL	STE	STANDARD TAPERED END
ADA	AMERICANS WITH DISABILITIES ACT	CTW	CERAMIC TILE WALL	FPM	FEET PER MINUTE	LAB	LABORATORY	PERP	PERPENDICULAR	STIFF	STIFFENER
ADJ	ADJACENT / ADJUSTABLE	CU	CONDENSING UNIT	FR	FIRE RATED	LAM	LAMINATE	PHC	PREHEAT COIL	STIR	STIRRUP
ADR	ACCESS DOOR	CUH	CABINET UNIT HEATER	FRP	FIBERGLASS REINFORCED PLASTIC	LAV	LAVATORY	PHVAC	PLUMBING, HEATING, VENTILATING AND AIR CONDITIONING	STL	STEEL
AFF	ABOVE FINISH FLOOR	CUYD	CUBIC YARD	FS	FLOW SWITCH	LBS	POUNDS			STOR	STORAGE
AHJ	AUTHORITY HAVING JURISDICTION	CW	COLD WATER	FT	FEET	LF	LINEAR FEET	PI	POINT OF INTERSECTION	STR	STRUCTURAL
AHU	AIR HANDLING UNIT	D		FTG	FOOTING	LIN	LINEAR	PIV	POST INDICATOR VALVE	SUSP	SUSPENDED
AL	ALUMINUM	D	DRAIN / DIFFUSER	FVC	FIRE VALVE CABINET	LINO	LINOLEUM	PKG	PARKING	SW	SWITCH
ALT	ALTERNATE	DA	DENTAL AIR	G		LL	LIVE LOAD	PL	PLASTIC LAMINATE / PROPERTY LINE / PLATE	SWGR	SWITCHGEAR
APC	ACOUSTICAL PANEL CEILING	DBL	DOUBLE	G	GAS / GRILLE	LLH	LONG LEG HORIZONTAL	PLAS	PLASTER	SYM	SYMMETRICAL
APPROX	APPROXIMATELY	DEPR	DEPRESSED	GA	GAGE	LLV	LONG LEG VERTICAL	PLBG	PLUMBING	T	
APT	APARTMENT	DEPT	DEPARTMENT	GALV	GALVANIZED	LMU	LIGHTWEIGHT MASONRY UNITS	PLF	POUNDS PER LINEAR FOOT	T	TREAD
ARCH	ARCHITECT(URAL)	DET	DETAIL	GB	GRAB BAR	LONG	LONGITUDINAL	PLYWD	PLYWOOD	T&B	TOP AND BOTTOM
ASPH	ASPHALT	DF	DRINKING FOUNTAIN	GBD	GRAVITY BACKDRAFT DAMPER	LPM	LITERS PER MINUTE	PNL	PANEL	T&G	TONGUE AND GROOVE
ATB	AIR TERMINAL BOX	DIA	DIAMETER	GEN	GENERATOR	LT	LIGHT	POL CONC	POLISHED CONCRETE	TC	TOP OF CURB
ATC	ACOUSTICAL TILE CEILING	DIAG	DIAGONAL	GFRC	GLASS FIBER REINFORCED CONCRETE	LT WT	LIGHT WEIGHT	PR	PAIR	TE	TOP ELEVATION
ATD	AIR TRANSFER DUCT	DIFF	DIFFUSER	GI	GALVANIZED IRON	LTG	LIGHTING	PRF	POURED RESINOUS FLOORING	TEL	TELEPHONE
ATU	AIR TERMINAL UNIT	DIP	DUCTILE IRON PIPE	GL	GLASS	LV	LABORATORY VACUUM	PROJ	PROJECTION	TEMP	TEMPERATURE
AUX	AUXILIARY	DISC	DISCONNECT	GLB	GLASS BLOCK	LVL	LEVEL	PRV	PRESSURE REGULATING VALVE	TERR	TERRAZZO
AVG	AVERAGE	DISP	DISPENSER	GLP	GLASS PANEL	LVT	LUXURY VINYL TILE	PSF	POUNDS PER SQUARE FOOT	TLT	TOILET
AWT	ACOUSTICAL WALL TREATMENT	DIST	DISTRIBUTION	GLT	GLASS TILE	M		PSI	POUNDS PER SQUARE INCH	TOPO	TOPOGRAPHY
AZ	AZIMUTH	DK	DECK	GP	GLAZED PAINT	M	METER	PT	POINT OF TANGENCY	TOS	TOP OF STEEL
B		DL	DEAD LOAD	GPM	GALLONS PER MINUTE	M2	SQUARE METER	PTB	PORCELAIN TILE BASE	TOW	TOP OF WALL
BB	BALLED AND BURLAPPED	DN	DOWN	GR	GRADE	M3	CUBIC METER	PTF	PORCELAIN TILE FLOOR	TP	TOP OF PAVEMENT
BD	BOARD	DO	DITTO	GRV	GRAVITY ROOF VENTILATOR	MA	MEDICAL AIR	PTVC	POINT OF VERTICAL CURVATURE	TRANS	TRANSVERSE
BDD	BACK DRAFT DAMPER	DPR	DAMPER	GT	GROUT	MAINT	MAINTENANCE	PTW	PORCELAIN TILE WALL	TS	TRANSITION STRIP
BE	BOTTOM ELEVATION	DR	DOOR	GWB	GYPSUM WALLBOARD	MAR	MARBLE	PVC	POLYVINYL CHLORIDE	TYP	TYPICAL
BL	BUILDING LINE	DS	DOWNSPOUT	GYP	GYPSUM	MAS	MASONRY	PVI	POINT OF VERTICAL INTERSECTION	U	
BLDG	BUILDING	DV	DENTAL VACUUM	H		MAT	MATERIAL	PVT	POINT OF VERTICAL TANGENCY	UC	UNDERCUT
BLKG	BLOCKING	DWG	DRAWING	HB	HOSE BIBB	MAX	MAXIMUM	Q		UG	UNDERGROUND
BM	BENCH MARK / BEAM	DWL	DOWEL	HC	HEATING COIL	MB	METAL BASE	QTB	QUARRY TILE BASE	UH	UNIT HEATER
BR	BARE ROOT	DWP	DOMESTIC WATER PUMP	HDNR	HARDENER	MBH	1000 BTUH	QTF	QUARRY TILE FLOOR	UNO	UNLESS NOTED OTHERWISE
BRG	BEARING	E		HDW	HARDWARE	MDO	MEDIUM DENSITY OVERLAY	QZP	QUARTZ POLYMER	UR	URINAL
BTU	BRITISH THERMAL UNIT	EA	EACH / EXHAUST AIR	HDWD	HARDWOOD	MECH	MECHANICAL	R		UV	UNIT VENTILATOR
BTUH	BRITISH THERMAL UNIT PER HOUR	ECT	ENTRY CARPET TILE	HK1E	HOOK ONE END	MET	METAL	R	RADIUS / REGISTER	V	
C		EF	EACH FACE / EXHAUST FAN	HK2E	HOOK TWO ENDS	MFR	MANUFACTURER	RA	RETURN AIR	V	VOLT
C/C	CENTER TO CENTER	EJ	EXPANSION JOINT	HM	HOLLOW METAL	MG	MOTOR GENERATOR / MEDICAL GAS	RAF	RAISED ACCESS FLOORING	VAV	VARIABLE AIR VOLUME
CAB	CABINET	EL	ELEVATION	HNDRL	HANDRAIL	MH	MANHOLE	RB	RESILIENT BASE	VC	VERTICAL CURVE
CB	CIRCUIT BREAKER / CATCH BASIN	ELEC	ELECTRIC(AL)	HORIZ	HORIZONTAL	MIN	MINIMUM	RCP	REINFORCED CONCRETE PIPE	VCP	VITRIFIED CLAY PIPE
CC	COOLING UNIT	ELEV	ELEVATOR	HP	HORSEPOWER	MLO	MAIN LUGS ONLY	RD	ROOF DRAIN	VCT	VINYL COMPOSITION TILE
CE	COVER ELEVATION	EMBED	EMBEDMENT	HPT	HIGH POINT	MM	MILLIMETER	REF	REFERENCE	VERT	VERTICAL
CEM	CEMENT	EMD	ESTIMATED MAXIMUM DEMAND	HR	HOUR	MO	MASONRY OPENING	REFL	REFLECTED	VEST	VESTIBULE
CFM	CUBIC FEET PER MINUTE	EMT	ELECTRICAL METAL TUBING	HS	HIGH STRENGTH	MP	METAL PANEL	REG	REGISTER	VFD	VARIABLE FREQUENCY DRIVE
CG	CORNER GUARD	ENG	ENTRANCE GRATING	HT	HEIGHT	MT	METAL TRANSITION	REINF	REINFORCED	VTR	VENT THROUGH ROOF
CH	CHILLER	EP	EPOXY PAINT	HTG	HEATING	MTD	MOUNTED	REQD	REQUIRED	VWC	VINYL WALL COVERING
CI	CURB INLET / CAST IRON	EQ	EQUAL	HTR	HEATER	MTG	MOUNTING	REV	REVERSE / REVISION	W	
CIP	CAST IRON PIPE	EQUIP	EQUIPMENT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	MULL	MULLION	RF	RETURN FAN	W	WATT / WATER
CJ	CONTROL JOINT OR CONTRACTION JOINT	ET	EXPANSION TANK / EPOXY TERRAZZO	HW	HOT WATER	MV	MEDICAL VACUUM	RGS	RIGID GALVANIZED STEEL	W/	WITH
CKT	CIRCUIT	ETB	EPOXY TERRAZZO INTEGRAL COVE BASE	HWC	HOT WATER CIRCULATING	N		RH	ROOF HOOD / RELATIVE HUMIDITY / REHEAT	W/O	WITHOUT
CL	CENTER LINE	EVAC	MEDICAL GAS EVACUATION	HZ	HERTZ	N	NITROGEN	RHC	REHEAT COIL	WAGD	WASTE ANESTHESIA GAS DISPOSAL
CLG	CEILING	EW	EACH WAY	I		N2O	NITROUS OXIDE	RM	ROOM	WC	WATER CLOSET / WALL COVERING
CLO	CLOSET	EWC	ELECTRICAL WATER COOLER	IA	INSTRUMENT AIR	NEC	NATIONAL ELECTRICAL CODE	RO	ROUGH OPENING	WD	WOOD
CLR	CLEAR	EWH	ELECTRICAL WATER HEATER	IC	INTERCOM	NFPA	NATIONAL FIRE PROTECTION	ROW	RIGHT OF WAY	WDB	WOOD BASE
CM	CENTIMETER	EXH	EXHAUST	ID	INSIDE DIAMETER	NIC	NOT IN CONTRACT	RS	RESILIENT SHEET	WDF	WOOD FLOOR
CMH	CUBIC METER PER HOUR	EXP	EXPOSED	IE	INVERT ELEVATION	NO	NUMBER	RT	RESILIENT TILE	WDP	WOOD PANEL
CMP	CORRUGATED METAL PIPE	EXPN	EXPANSION	IF	INSIDE FACE	NOM	NOMINAL	S		WDW	WINDOW
CMU	CONCRETE MASONRY UNIT	EXST	EXISTING	IN	INCH	NTS	NOT TO SCALE	S	STAIR / STAIN / SURFACE / SANITARY	WDWF	WINDOW FILM
CO	CLEANOUT / CARBON MONOXIDE	EXT	EXTERIOR	INSUL	INSULATION	O		SA	SUPPLY AIR / SOUND ATTENUATOR	WGD	WALL GUARD
CO2	CARBON DIOXIDE	F		INT	INTERIOR	O/S	OFFSET	SAN	SANITARY	WH	WATER HEATER / WALL HYDRANT
COL	COLUMN	F	FIRE MAIN	J		OA	OUTSIDE AIR	SCH	SCHEDULE	WP	WEATHERPROOF
COMB	COMBINATION / COMBINE	FA	FIRE ALARM	JAN	JANITOR	OBD	OPPOSED BLADE DAMPER	SD	SMOKE DAMPER / SUB DRAIN / STORM SEWER	WPFG	WATERPROOFING
COMP	COMPRESSIBLE	FCU	FAN COIL UNIT	JB	JUNCTION BOX	OC	ON CENTER	SECT	SECTION	WS	WATER STOP
CONC	CONCRETE	FD	FLOOR DRAIN / FIRE DAMPER	JP	JOCKEY PUMP	OD	OUTSIDE DIAMETER	SF	SUPPLY FAN	WT	WEIGHT / WINDOW TREATMENT
CONN	CONNECTION	FD / SD	COMBINATION FIRE AND SMOKE DAMPER	JST	JOIST	OF	OUTSIDE FACE	SHT	SHEET	WWF	WELDED WIRE FABRIC
CONST	CONSTRUCTION	FDC	FIRE DEPARTMENT CONNECTION	JT	JOINT	OPNG	OPENING	SIM	SIMILAR	X	
CONT	CONTINUOUS / CONTINUATION	FDN	FOUNDATION	K		OPP	OPPOSITE	SOG	SLAB-ON-GRADE	XFMR	TRANSFORMER
CONTR	CONTRACTOR	FDR	FEEDER	KC MIL	THOUSAND CIRCULAR MILS	OX	OXYGEN	SP	SUMP PUMP	Y	
CORR	CORRIDOR	FE	FIRE EXTINGUISHER	KCJ	KEYED CONSTRUCTION JOINT	OZ	OUNCE	SPEC	SPECIFICATIONS	YD	YARD
CP	CEMENT PIPE	FEC	FIRE EXTINGUISHER CABINET	KIT	KITCHEN			SQ	SQUARE	YH	YARD HYDRANT

GENERAL NOTES ARCHITECTURAL

A. PARTITION AND WALLS

1. DIMENSIONS ARE TO FINISH FACE OF PARTITIONS, FACE OF EXISTING FINISH OR CENTER LINE OF COLUMNS UNLESS SHOWN OR NOTED OTHERWISE. ALL EXISTING DIMENSIONS ARE BASED ON EXISTING DRAWINGS BUT MUST BE VERIFIED IN FIELD.
2. ALL PARTITIONS SHALL EXTEND FROM FLOOR TO UNDER SIDE OF DECK ABOVE EXCEPT WHERE NOTED OR SHOWN OTHERWISE.
3. EXTEND ALL SOUND RATED PARTITIONS TO THE UNDER SIDE OF DECK ABOVE TO PREVENT SOUND TRANSMISSION. FURNISH 4-1/4 POUNDS DENSITY GLASS FIBER INSULATION SHAPED TO FIT THE VOID ABOVE THE PARTITION WHERE AIR-BORNE SOUND CAN PENETRATE SPACES.
4. FOR LOCATIONS OF FIRE-RATED PARTITIONS SEE LS-101 AND LS-102
5. CONTROL JOINTS SHALL BE PROVIDED ABOVE DOORS AT EACH SIDE IN STUD AND GWB PARTITIONS.
6. EXPANSION JOINTS AT ALL FLOORS, CEILINGS AND WALLS THAT ARE EXPOSED TO VIEW SHALL BE COVERED WITH EXPANSION JOINT COVERS APPROPRIATE FOR FINISHED SURFACES.
7. ALL COLUMNS WITHIN FINISHED SPACES SHALL BE FINISHED WITH SAME MATERIALS SCHEDULED AT WALLS UNLESS OTHERWISE SHOWN OR DETAILED.
8. PROVIDE ALL WALL AND FLOOR OPENINGS FOR MECHANICAL AND ELECTRICAL ITEMS. ALL OPENINGS MORE THAN 16 INCHES WIDE IN MASONRY PARTITIONS SHALL HAVE LINTELS AS SCHEDULED ON THE STRUCTURAL DRAWINGS.
9. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS.
10. PROVIDE MOLD-RESISTANT GWB AT BUILD-OUT, TYPICAL.
11. FOR WALL PARTITION TYPES, SEE SHEET AE-600..

B. DOORS AND FRAMES

1. PROVIDE LABELS ON DOORS AND FRAMES WHERE SCHEDULED.
2. INSTALL CONTINUOUS CAULKING AROUND METAL FRAMES UNLESS NOTED OTHERWISE.
3. HOLLOW METAL FRAMES SHALL BE ANCHORED TO THE STRUCTURAL FLOOR WITH A MINIMUM OF TWO (2) ANCHOR BOLTS.
4. HOLLOW METAL FRAMES IN STUD PARTITIONS SHALL BE FILLED WITH GROUT TO THE DEPTH OF THE FRAME ANCHOR FULL HEIGHT FOR SOUND DAMPENING BEFORE SETTING IN PLACE.
5. INSTALL CASING BEADS AND CAULK WHERE GWB ABUTS METAL FRAMES.
6. DOOR TYPES AND SIZES ARE SHOWN ON SHEET AE-600.

C. MISCELLANEOUS

1. SEE PHYSICIST'S REPORT FOR SHIELDING REQUIREMENTS INCLUDING LOCATIONS AND MINIMUM LEAD THICKNESS FOR SURFACES.

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS		
NO.	DESCRIPTION	DATE

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title	SHEET INDEX, GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
Approved:	
Phase	CD(100%CD-ISSUE FOR BID)
	FULLY SPRINKLERED
Project Title	VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS
Location	10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201
Issue Date	04/22/2024
Checked	RSM
Drawn	PJG
Project Number	672-22-810
Building Number	1
Drawing Number	GI-002

4/22/2024 11:52:33 AM

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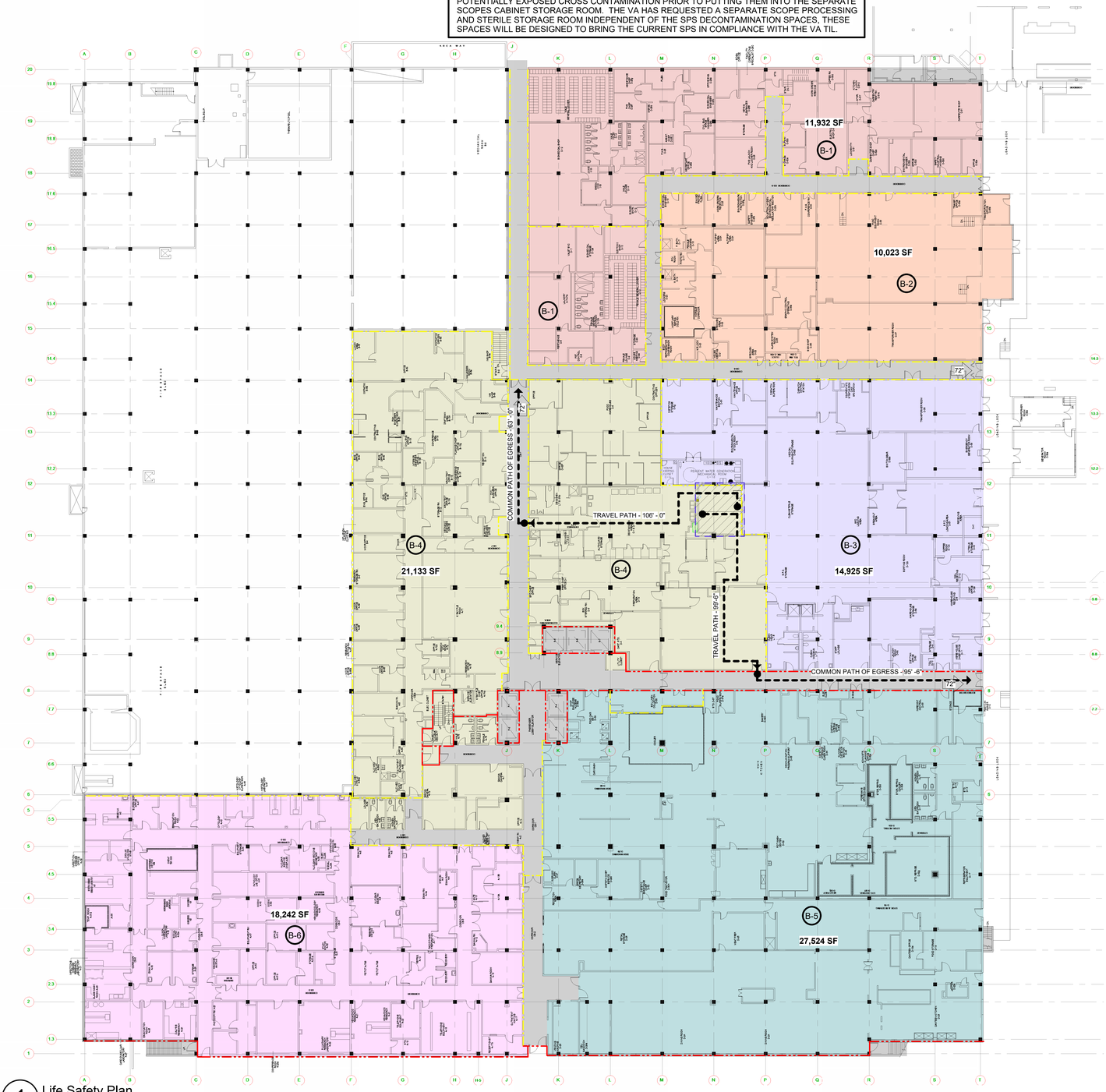
SCOPE OF WORK

IT IS THE PRIMARY SCOPE AND OBJECTIVE OF THIS PROJECT TO PROVIDE A HIGH-LEVEL DISINFECTION (HLD) SCOPE ROOM. THIS HLD IS AN INTERIM MEASURE, TO BRING THE EXISTING SPS DEPT IN COMPLIANCE WITH CURRENT VA TIL STANDARDS, THE CURRENT SCOPES STERILIZATION PROCESS PRESENTS A HIGH PROBABILITY OF CROSS CONTAMINATION BECAUSE THE AERS ARE IN THE GENERAL DECONTAMINATION ROOM, THEREFORE THE SCOPES ARE POTENTIALLY EXPOSED CROSS CONTAMINATION PRIOR TO PUTTING THEM INTO THE SEPARATE SCOPES CABINET STORAGE ROOM. THE VA HAS REQUESTED A SEPARATE SCOPE PROCESSING AND STERILE STORAGE ROOM INDEPENDENT OF THE SPS DECONTAMINATION SPACES, THESE SPACES WILL BE DESIGNED TO BRING THE CURRENT SPS IN COMPLIANCE WITH THE VA TIL.



1 Life Safety Plan
1" = 20'-0"

CODE SUMMARY

APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2021 (6TH EDITION)
INTERNATIONAL BUILDING CODE 2021, EXISTING BUILDING EDITION (6TH EDITION)
INTERNATIONAL BUILDING CODE 2021, ACCESSIBILITY (6TH EDITION)
NFPA 101 LIFE SAFETY CODE 2020 EDITION
VA FIRE PROTECTION DESIGN MANUAL, SIXTH EDITION, SEPTEMBER 2011
ASHRAE 90.1, 1999
UNIFORM FEDERAL ACCESSIBILITY STANDARDS, LATEST EDITION

* WHERE CONFLICTS EXIST BETWEEN CODES, THE CODE SPECIFIED IN THE VA FIRE PROTECTION DESIGN GUIDE SHALL BE FOLLOWED. FIRE PROTECTION FEATURES NOT ADDRESSED IN THE NATIONAL FIRE CODES SHALL BE DESIGNED TO COMPLY WITH THE 2021 IBC OR AS OTHERWISE ADDRESSED IN THE DESIGN GUIDE.CODE REFERENCES LISTED IN THE NARRATIVE ARE BASED ON THE 2020 LIFE SAFETY CODE, UNLESS NOTED OTHERWISE. CHAPTERS 43, 18, AND 19 APPLY FOR ALL EXISTING BUILDING AREAS UNDERGOING RENOVATION. WHERE AREAS ARE COMPLETELY RECONSTRUCTED, THE RECONSTRUCTION IS IN ACCORDANCE WITH CHAPTER 18.

SMOKE COMPARTMENTS

B-4 EXISTING SF 21,133

*SMOKE COMPARTMENT DESIGNATIONS WERE PROVIDED BY VAMC SAN JUAN BASED ON THE 7/18/2013 BUILDING SAFETY INFORMATION PLANS. THESE PLANS DEPICT EXISTING SMOKE COMPARTMENTS AND EXITS. THE STRATEGY IN AREAS OF RENOVATION IS TO MAINTAIN EXISTING SMOKE COMPARTMENT BOUNDARIES WHEREVER POSSIBLE.

THE RENOVATIONS WILL MAKE USE OF EXISTING FIRE AND SMOKE BARRIERS AS INDICATED ON THE PLANS.

LIFE SAFETY KEY

	1-HR FIRE/SMOKE BARRIER
	1-HR FIRE RATED CONSTRUCTION
	2-HR FIRE RATED CONSTRUCTION
	2-HR FIRE/SMOKE BARRIER
	EXIT ACCESS CORRIDOR WITH SMOKE TIGHT WALLS
EXIT	EXIT SIGN
FEC	FIRE EXTINGUISHER CABINET
FEHC	FIRE EXTINGUISHER HOSE CABINET
S	SMOKE DETECTOR
F	FIRE ALARM DEVICE
	FIRE EXTINGUISHER

	SCOPE OF WORK
	SUITE AREA
72"	EXIT CAPACITY
1A	SMOKE COMPARTMENT DESIGNATION
	TRAVEL DISTANCE TO EXIT
	COMMON PATH OF TRAVEL TO ADJACENT SMOKE COMPARTMENT
	COMMON PATH OF TRAVEL

*THE RENOVATION WILL MAINTAIN THE CURRENT FACILITY EMERGENCY EVACUATION AND RESPONSE PLAN SHALL BE MADE AVAILABLE BY THE FACILITIES ENGINEERING DEPARTMENT.

PROJECT DATA

1. OCCUPANCY CLASSIFICATION (2021 IBC - BUILDING, SIXTH EDITION, 308.4)(NFPA 101 LIFE SAFETY CODE 2020 EDITION, 18.3.3.3)

INSTITUTIONAL **GROUP I-2**

2. TYPES OF CONSTRUCTION (2021 IBC - BUILDING, SIXTH EDITION, 602.2)NFPA 101 LIFE SAFETY CODE 2020 EDITION,18.3.3.3)

TYPE IB, FULLY SPRINKLERED

3. PROJECT AREA:

SCOPE OF WORK: 378 GSF

4. OVER ALL LIFE SAFETY CALCULATIONS:

COMPARTMENT		OCCUPANCY GROSS AREA ÷ LOAD FACTOR = LOAD				IBC 1005.3 EXISTING UNCHANGED		
SYMB	GROSS AREA (SCOPE OF WORK)	USE	USE AREA	LOAD FACTOR	LOAD	CAPACITY FACTOR DOOR 0.2 STAIR 0.3	REQUIRED (IN INCHES)	PROVIDED (IN INCHES)
B-4	14,295 SF (378 SF)	NON SLEEPING	378 SF	150	2.52 ~ 3	0.2	44"	72"
						0.3	N/A	N/A
TOTAL								

5. **FIRE PROTECTION SYSTEMS:**
EXISTING FIRE ALARM SYSTEM
EXISTING FIRE SPRINKLERED SYSTEM.
FIRE EXTINGUISHERS: PROVIDED AT 75'-0" MAX. PATH OF TRAVEL FROM ANY POINT IN THE SPACE.

6. **INTERIOR FINISH CLASSIFICATION:**
INTERIOR WALL AND CEILING FINISH REQUIREMENT FOR SPRINKLERED GROUP I-2 OCCUPANCY. IN ACCORDANCE WITH NFPA 101 SECTION 18.3.3.2 AND SECTION 18.3.3.3

1. EXIT ENCLOSURES AND EXIT PASSAGEWAYS: CLASS B
2. CORRIDORS: CLASS B
3. ROOMS AND ENCLOSED SPACES: CLASS B

FIRE RATING FOR SPECIFIC ELEMENTS
1. ROOF CONSTRUCTION = 2 HOURS
2. PRIMARY STRUCTURAL FRAME = 2 HOURS - PROTECTED STEEL/ SELF PROTECTING CONCRETE
3. BEARING WALLS, INTERIOR AND EXTERIOR = 3 HOURS
4. FLOOR CONSTRUCTION = 2 HOURS

GENERAL NOTES:

1. MAXIMUM ALLOWABLE SQUARE FOOTAGE OF A SMOKE COMPARTMENT IS 22,500 SQUARE FEET, PER MOST STRINGENT CODE REQUIREMENT OF NFPA 101 SECTION 19.3.7.1(1) AND IBC SECTION 407.5 FOR HOSPITALS.
2. OCCUPANT LOAD FACTOR IS DETERMINED PER MOST STRINGENT CODE REQUIREMENT OF NFPA 101 TABLE 7.3.1.2 AND IBC TABLE 1004.1.2
3. OCCUPANT LOAD IS DETERMINED PER MOST STRINGENT CODE REQUIREMENT OF NFPA 101 SECTION 19.1.7 AND IBC SECTION 1004.1.
4. EGRESS CAPACITY FACTOR IS DETERMINED PER MOST STRINGENT CODE REQUIREMENT OF NFPA 101 TABLE 7.3.3.1 AND IBC 1005.1.
5. MINIMUM CLEAR EXIT EGRESS FOR DOOR REQUIRED IS 32 INCHES, PER MOST STRINGENT CODE REQUIREMENT OF NFPA 101 SECTION 19.2.3.6 AND IBC SECTION 1010.1.1. MEANS OF EGRESS DOORS IN A GROUP I-2 OCCUPANCY USED FOR THE MOVEMENT OF BEDS SHALL PROVIDE A CLEAR WIDTH NOT LESS THAN 41 1/2" AS PER IBC SECTION 1010.1.1. IT CONFORMS BECAUSE THE MINIMUM CLEAR EXIT TO PUBLICWAY IS 72".
6. MAXIMUM TRAVEL DISTANCE FROM "THE MOST REMOTE POINT IN A ROOM" TO "AN EXIT" IS 200 FEET IN A SPRINKLERED BUILDING, PER MOST STRINGENT CODE REQUIREMENT OF NFPA 101 SECTION 19.2.6.2.2, AND IBC TABLE 1017.2, OCCUPANCY TYPE I-2. (ALLOWANCE IS ACCEPTABLE, COMPARTMENT IS FULLY SPRINKLERED)
7. MAXIMUM TRAVEL DISTANCE FROM "ANY ROOM DOOR REQUIRED AS AN EXIT ACCESS" TO "AN EXIT" IS 150 FEET, PER MOST STRINGENT CODE REQUIREMENT OF NFPA 101 SECTION 19.2.6.2.1. (ALLOWANCE IS ACCEPTABLE, COMPARTMENT IS FULLY SPRINKLERED)
8. MAXIMUM TRAVEL DISTANCE FROM "THE MOST REMOTE POINT IN A ROOM" TO "A DOOR INTO AN ADJACENT SMOKE COMPARTMENT" IS 200 FEET, PER MOST STRINGENT CODE REQUIREMENT OF NFPA 101 SECTION 18.3.7.1(4) AND IBC SECTION 407.5 FOR HOSPITALS.
9. EXIT PASSAGEWAYS SERVING AS AN EXIT COMPONENT IN A MEANS OF EGRESS SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 101 SECTION 7.2.6 AND IBC SECTION 1024. (EXIT PASSAGEWAYS ARE INDICATED BY EGRESS PATHWAY TAPE (LINE TYPE).)
10. WALLS AROUND SHAFT ENCLOSURES SHALL BE 2HR RATED PER IBC SECTION 713.4.
11. ALL CORRIDOR WALLS BETWEEN SUITE COMPARTMENTS SHALL GO TO UNDERSIDE OF STRUCTURE ABOVE.
12. REFER TO FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF SPRINKLER HEADS, STROBES, FIRE ALARM PULL STATIONS, FIRE ALARM CHIMES, SMOKE DETECTORS, ETC..

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS

NO.	DESCRIPTION	DATE

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: LIFE SAFETY PLAN	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS	Project Number: 672-22-810
			Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201	Drawing Number: LS-001
		Issue Date: 04/22/2024 / Checked: RSM / Drawn: PJG	

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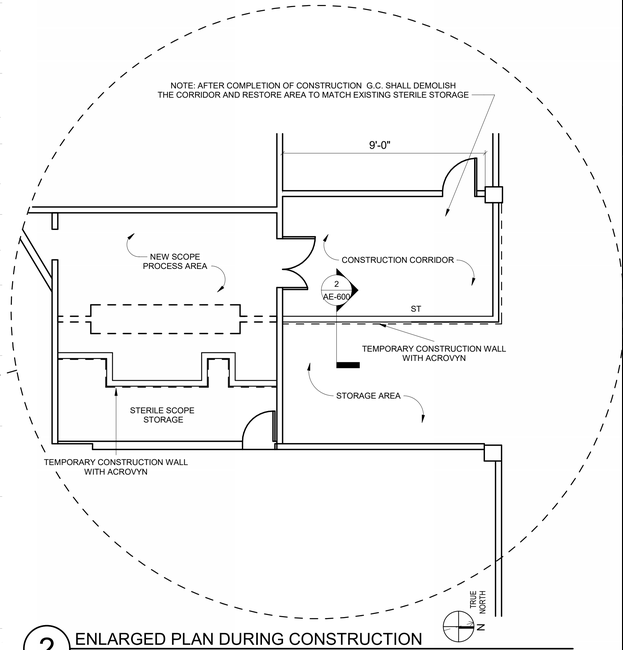
1 Proposed Debris Plan
1" = 20'-0"



2 ENLARGED PLAN DURING CONSTRUCTION
3/16" = 1'-0"

NOTE: STAFF SHALL TRANSPORT STERILE SCOPE USING PATHWAY SHOWN IN PLAN, ALL STERILE SCOPES TO BE TRANSPORTED USING CLEAN SCOPE TRANSPORTATION SYSTEM

NOTE: ALL ACCESS FOR CONSTRUCTION SHALL BE FROM LOADING DOCK AS SHOWN IN PLAN, ALL CONSTRUCTION DEBRIS SHALL BE REMOVED VIA THE SAME ACCESS PATH USED FOR CONSTRUCTION ACCESS
G.C. SHALL COORDINATE WITH COR (TYP.)

CONSTRUCTION BARRIER PLAN NOTES

1. THE CONTRACTOR IS TO UTILIZE THE PATH OF TRAVEL INDICATED ON THESE PLANS FOR ACCESSING THE AREAS TO BE RENOVATED. NO OTHER AREA WITHIN THE HOSPITAL IS TO BE ENTERED OR USED BY THE CONTRACTOR WITHOUT THE WRITTEN PERMISSION OF THE HOSPITAL'S AUTHORIZED REPRESENTATIVE.
2. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS POINT AS WELL AS THE PROPOSED HOURS OF OPERATION AND CONSTRUCTION STAGING AREAS PRIOR TO THE START OF CONSTRUCTION FOR THE REVIEW AND APPROVAL OF MOUNT SINAI MEDICAL CENTER.
3. THE CONTRACTOR IS TO COMPLY WITH THE INFECTION CONTROL REQUIREMENTS AS DEFINED IN THESE DOCUMENTS AND AS PROVIDED IN THE INSTRUCTIONS TO BIDDERS.
4. INSTALL TEMPORARY UPRIGHT SPRINKLERS PRIOR TO CEILING REMOVAL TO ALLOW FOR CONTINUED SPRINKLER PROTECTION WITHIN THE CONSTRUCTION AREA.
5. DOCUMENT THAT THE FIRE PROTECTION DURING CONSTRUCTION MUST COMPLY WITH VA MASTER CONSTRUCTION SPECIFICATIONS. (NOTE: SPECIFICATION SECTION 01 35 26, SAFETY REQUIREMENTS, ADDRESSES NFPA 241, JOINT COMMISSION INTERIM LIFE SAFETY MEASURES, HOT WORK PERMITS, ETC..)(VAFPDM SECTION 1.4)

INFECTION CONTROL REQUIREMENTS

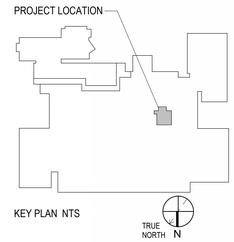
THIS PROJECT HAS BEEN DETERMINED TO REQUIRE **TYPE 'D' CLASS 'IV' HIGHEST RISK GROUP** PRECAUTIONS TO PROTECT THE INHABITANTS OF THE FACILITY DURING THE CONSTRUCTION PROCESS. THE GENERAL CONTRACTOR, SUBCONTRACTORS AND STAFF WILL BE REQUIRED TO COMPLY WITH THE HOSPITALS CIRTERIA AND PROCEDURES FOR INFECTION CONTROL AND CONTAINMENT OF CONTAMINANTS DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR WILL BE PROVIDED WITH THESE REQUIREMENTS AS PART OF THE CONTRACT DOCUMENTS AND WILL BE REQUIRED TO PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR AS PART OF HIS BID TO INSURE THE REQUIREMENTS ARE ACHIEVED. THE CONTRACTOR WILL BE REQUIRED TO UTILIZE THE METHOD OF ACCESS AND EGRESS AS INDICATED ON THE CONSTRUCTION ACCESS PLANS. ALL CONSTRUCTION MATERIALS ARE TO BE ENCLOSED OR CONTAINED WHILE BEING TRANSPORTED WITHIN THE HOSPITAL. THE CONTRACTOR WILL BE REQUIRED TO THOROUGHLY CLEAN AND POLICE ALL AREAS UTILIZED BY THE CONTRACTOR FOR DELIVERIES, STAGING, STORAGE, TRANSPORTING AND CONSTRUCTION. NO EXTERIOR OR INTERIOR AREAS SHALL BE LEFT WITH UNSUPERVISED CONSTRUCTION MATERIALS OR DEBRIS. THE CONTRACTOR WILL BE REQUIRED TO PROTECT AND CLEAN ALL EXTERIOR AND INTERIOR AREAS UTILIZED FOR THE CONSTRUCTION PROCESS IMMEDIATELY AFTER USE.

GENERAL NOTES

1. ALL AREAS OF CONSTRUCTION SHALL MAINTAIN NEGATIVE AIR PRESSURE RELATIVE TO ADJACENT SPACES FOR THE DURATION OF CONSTRUCTION ACTIVITIES. REFER TO THE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. IF CONTRACTOR SHOULD NEED TO ACCESS MECHANICAL, ELECTRICAL, PLUMBING, ETC., FROM ANY FLOOR ABOVE OR BELOW, THE CONTRACTOR MUST TAKE ACTION TO RESTORE ALL INFRASTRUCTURE AND FINISH TO ORIGINAL PRE-CONSTRUCTION CONDITION.
3. CONTRACTOR SHALL COORDINATE ANY AND ALL SHUTDOWNS WITH THE OWNER AS PER THE OWNER PROVIDED PRE-CONSTRUCTION RISK ASSESSMENT REPORTS.
4. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS WITH OWNER AS PER THE OWNER PROVIDED PRE-CONSTRUCTION RISK ASSESSMENT REPORTS. IF THERE ARE ANY CONFLICTS, CONTRACTOR SHALL CONTACT THE OWNER/ARCHITECT IMMEDIATELY AS TO NOT HOLD UP PROJECT COMPLETION.
5. CONTRACTOR SHALL AT ALL TIMES MAINTAIN CLEAR AND UNOBSTRUCTED ACCESS TO CORRIDORS AND STAIRS FOR EMERGENCY EGRESS.
6. CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SCOPE OF WORK REQUIRED.
7. ALL WATER LINES IMPACTED BY DEMOLITION SHALL BE CAPPED WHEN NOT IN USE. WATER LINES SHALL BE FLUSHED AFTER FINAL INSTALLATION, REFER TO SPECIFICATIONS FOR FLUSHING REQUIREMENTS.

LEGEND

- CONTRACTOR ROUTE TO CONSTRUCTION AREA
- TEMPORARY CONSTRUCTION BARRIER CONSISTING OF METAL STUD FRAMING WITH 5/8" TYPE 'X' GWB ON ONE SIDE. TAPED WITH CAULKED SEAMS CREATING A TIGHT SEAL ON ALL SIDES
- TEMPORARY CONSTRUCTION ANTE ROOM AS MANUFACTURED BY KONTROL KUBE OR MINTIE AND COMPLYING WITH NFPA 701
- PROJECT SCOPE
- (-) NEGATIVE PRESSURE DIFFERENTIAL COMPARED TO SURROUNDING ROOMS.
- (+) POSITIVE PRESSURE DIFFERENTIAL COMPARED TO SCANNING ROOM AND CONTROL ROOM.



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REVISIONS		
NO.	DESCRIPTION	DATE

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: PROPOSED DEBRIS REMOVAL	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS	Project Number: 672-22-810
			Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201	Drawing Number: LS-002
		Issue Date: 04/22/2024 / Checked: RSM / Drawn: PJG	

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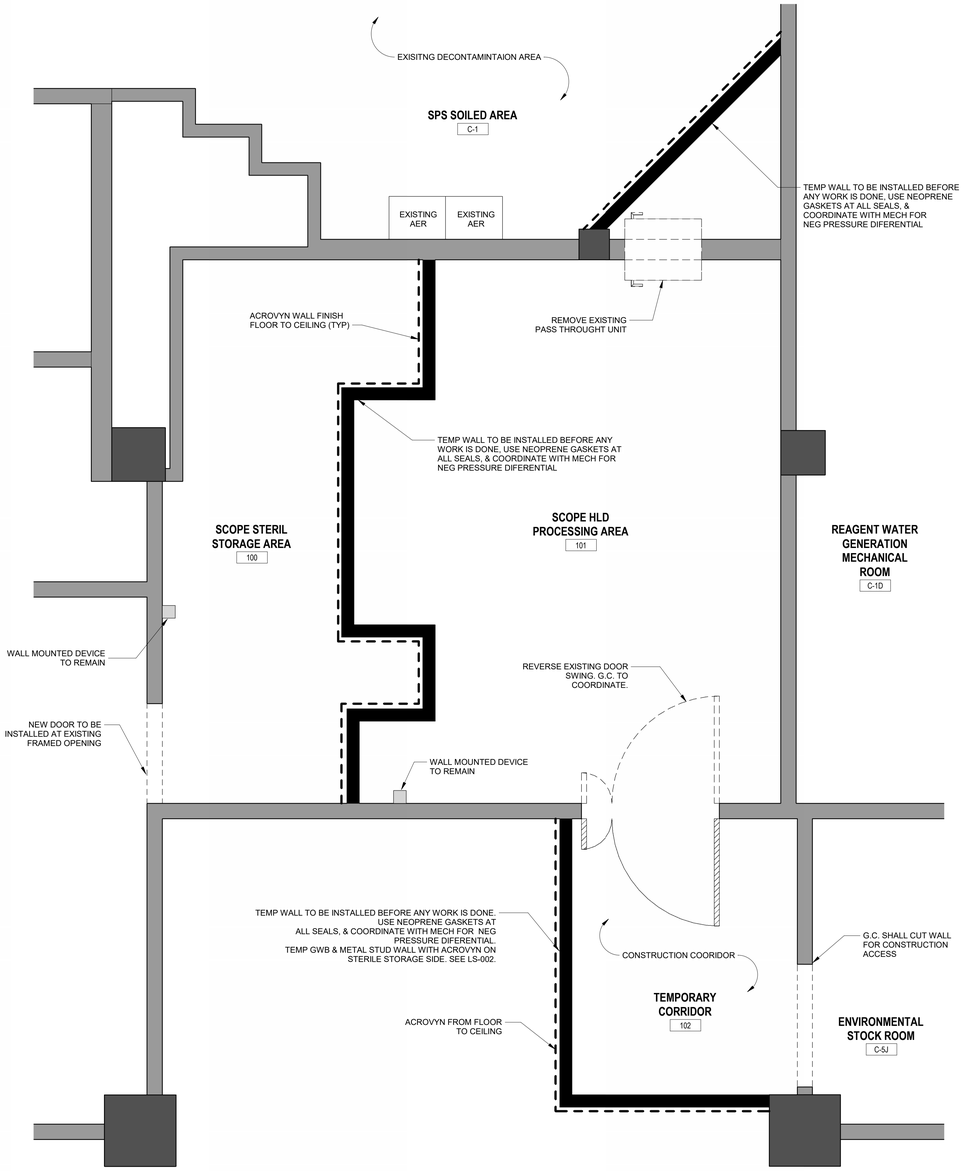
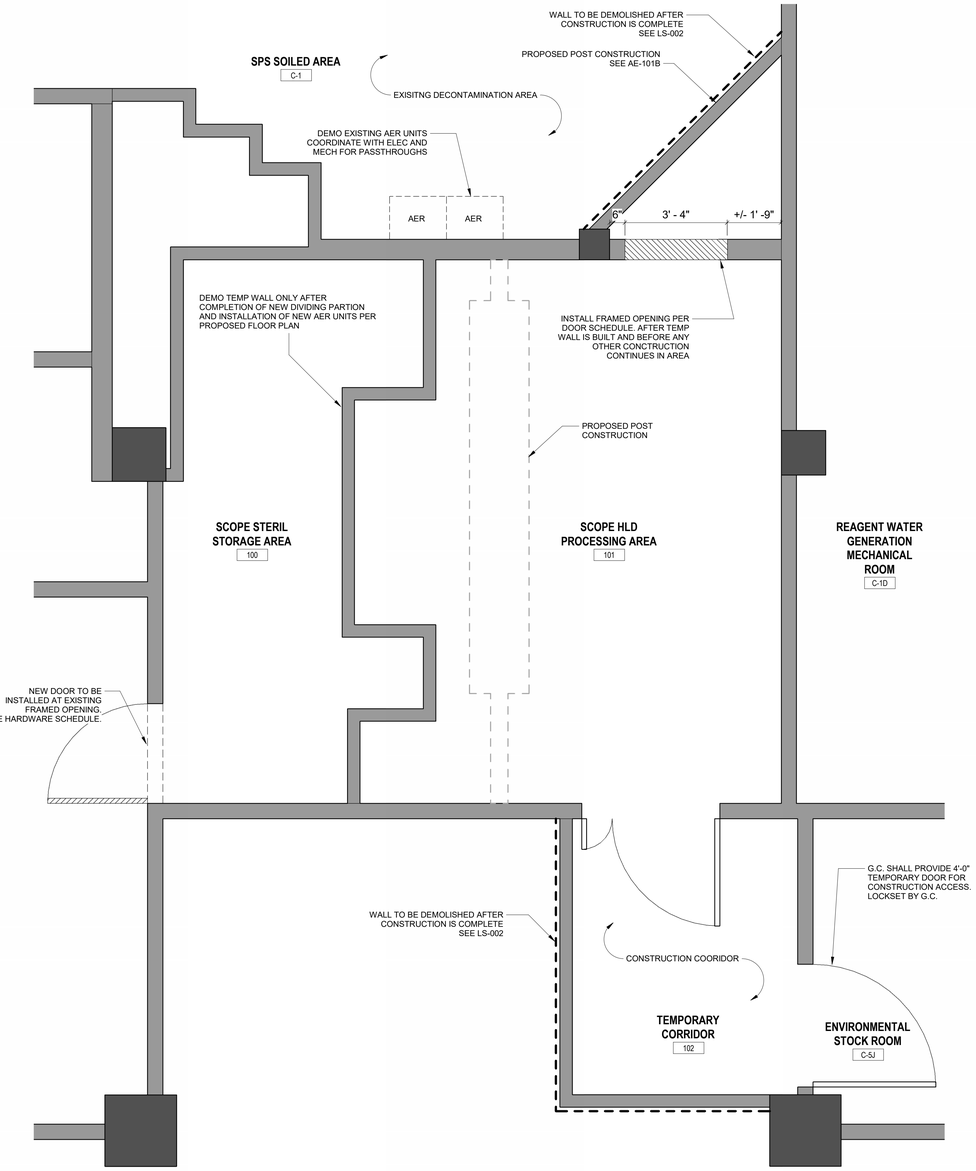


1 Demolition Phase 1

1/2" = 1'-0"



2 Demolition Phase 2

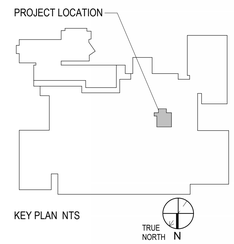
1/2" = 1'-0"

LEGEND

- EXISTING WALL
- NEW WALL
- TEMP WALL
- DEMOLITION

DEMOLITION NOTES ARCHITECTURAL

1 REFER TO SPECIFICATION SECTION 02 41 00 FOR ITEMS TO BE REMOVED AND SALVAGED ACCORDING TO INITIAL WALK-THRU WITH USERS.
2 HALF-TONE NOTES AND DIMENSIONS ARE PROVIDED FOR INFORMATION ONLY
3 DASHED BOLD LINES INDICATE EXTENT OF DEMOLITION INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
A. INTERIOR PARTITIONS (REMOVE TO STRUCTURE)
B. CEILING - INCLUDING CURTAIN TRACKS, I.V. TRACKS, SUSPENSION SYSTEMS, APC SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENSION EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES (SEE ELECTRICAL), DIFFUSERS AND GRILLES (SEE MECHANICAL)
C. FLOOR FINISHES TO CONCRETE, INCLUDING, CARPET, VCT, SHEET VINYL, CERAMIC TILE, ETC
D. DOORS, DOOR FRAMES, HARDWARE, INTERIOR WINDOW FRAMES AND GLAZING
E. FIRE EXTINGUISHERS
F. EQUIPMENT ITEMS (SEE MECHANICAL AND ELECTRICAL)
G. CABINETWORK, SINKS, COUNTERS AND SHELVES
H. TACKBOARDS, MARKERBOARDS AND PEGBOARDS
4 EXISTING SURFACES DISTURBED BY NEW CONSTRUCTION SHALL BE PATCHED AND FINISHED TO MATCH ADJACENT SURFACES.
5 SCHEDULING OF WORK SHALL BE DIRECTED BY OWNER
6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING STRUCTURES SURROUNDING THE CONTRACT AREA. DAMAGE TO EXISTING STRUCTURES OR EQUIPMENT SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER
7 THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER PRIOR TO REMOVAL OF MATERIAL OR EQUIPMENT NOT INDICATED ON THE DRAWINGS TO BE REMOVED
8 THE CONTRACTOR TO CONFIRM WITH OWNER THE LOCATION OF TEMPORARY PARTITIONS ENCLOSING THE DEMO AND CONSTRUCTION SITE
9 WHERE CHEMICALLY ABATED BY OTHERS, CONCRETE FLOOR TO BE SHOT BLASTED FOR ADHERENCE OF FLOORING
10 DISPOSE OF ALL REMOVED MATERIALS OFF SITE IN ACCORDANCE WITH ALL FEDERAL, STATE & MUNICIPALITY LEGAL JURISDICTIONS
11 DEMOLITION WORK CAUSING LOUD NOISE OR VIBRATION DISRUPTIVE TO FACILITY AS DEEMED BY THE OWNER SHALL BE COORDINATED WITH THE OWNER REP
12 ALL EXISTING FLOOR OPENINGS, PIPE PENETRATIONS, ETC. CURRENTLY EXPOSED OR UNCOVERED DURING WORK WHETHER NEW OR EXISTING ARE TO BE FILLED-IN AS REQUIRED TO ACCEPT NEW WORK WITH CONCRETE FILL OR FIRESTOPPING
13 SEE ROOM FINISH SCHEDULE. REMOVE ALL EXISTING FINISHES IN ROOMS TO RECEIVE NEW FINISHES
14 SEE REFLECTED CEILING PLANS AND ROOM FINSH SCHEDULE FOR EXTENT OF NEW CEILING CONSTRUCTION OR CEILING PATCHING IN EXISTING AREAS
15 FOR ADDITIONAL DEMOLITION,SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
16 SALVAGE DOORS AS REQUIRED FOR REUSE WHERE INDICATED. VERIFY FUNCTION AND CONDITION OF DOOR IS ACCEPTABLE FOR REUSE.
17 VERIFY EXTENT OF DEMOLITION OF FRAMING NEEDED WITH FRAMING DESIGN PRIOR TO REMOVAL. FRAMING MAY BE ABLE TO REMAIN IN PLACE, TYPICAL ALL HATCHED DEMO WALLS
18 G.C. SHALL FOLLOW LSM AS PROVIDED BY COR TO INCLUDE BUT NOT LIMITED TO A FIRE WATCH WHILE PORTION OF THE CEILING IS OPEN AND THE FIRE SPRINKLER SYSTEM IS DISABLED.
19 CONTRACTOR SHALL FOLLOW ALL ICFA PROTOCOL AS STIPULATED BY COR.



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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: DEMO PLAN

Phase: CD(100%CD-ISSUE FOR BID)

Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS

Project Number: 672-22-810

Building Number: 1

Approved:

FULLY SPRINKLERED

Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201

Issue Date: 04/22/2024

Checked: RSM

Drawn: PJG

Drawing Number: AE-101A

4/22/2024 11:50:45 AM

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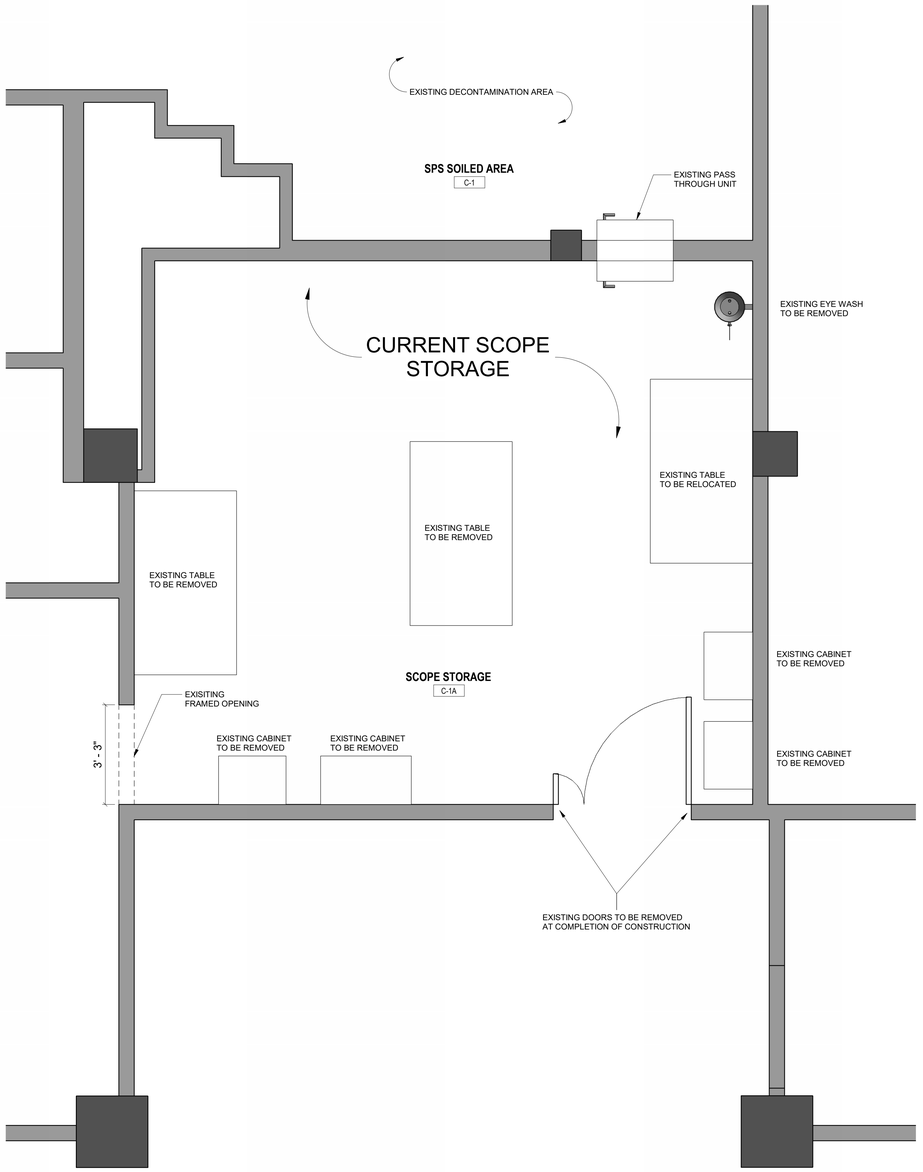
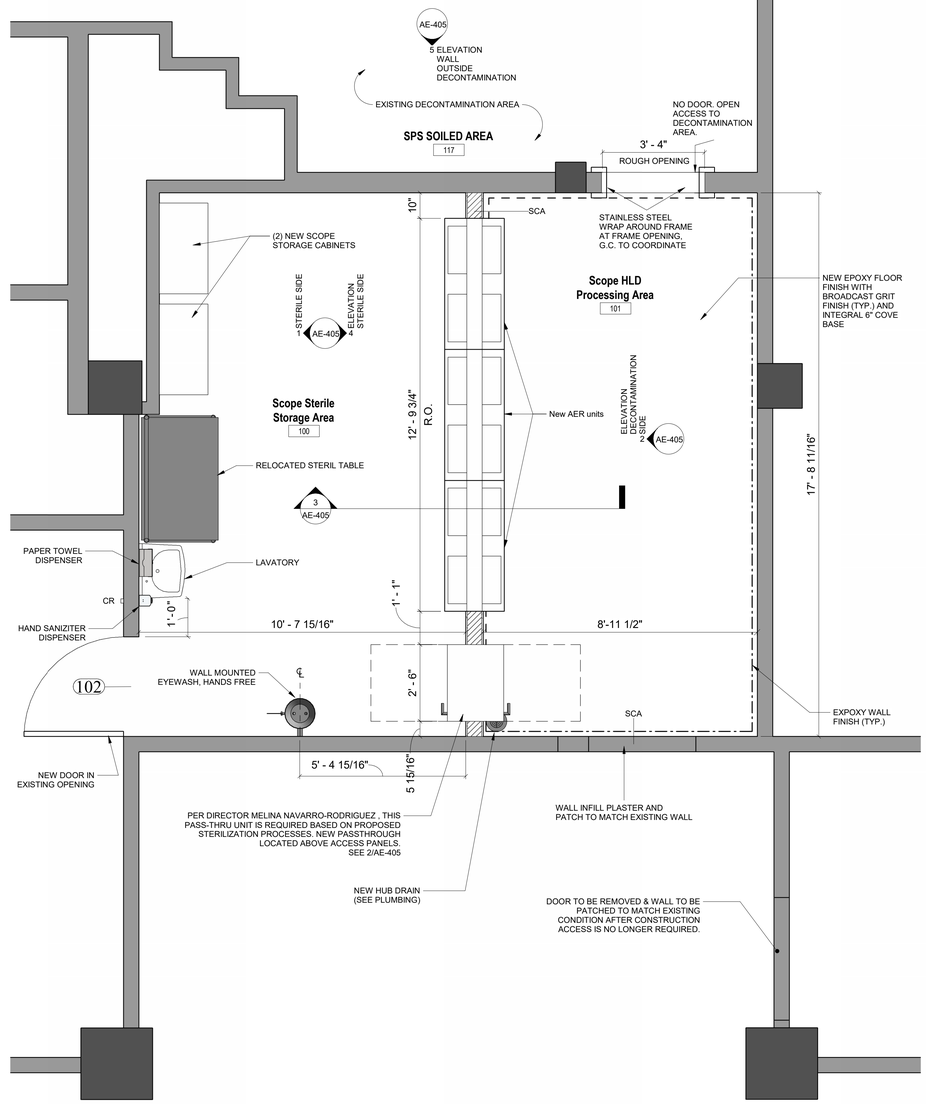


1 EXISTING FLOOR PLAN
1/2" = 1'-0"



2 PROPOSED FLOOR PLAN
1/2" = 1'-0"

LEGEND

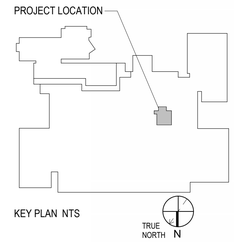
- ACROVYN WALL FINISH
- EXISTING WALL TO BE DEMOLISHED
- EPOXY PAINT WALL FINISH

GENERAL NOTES ARCHITECTURAL

A. PARTITION AND WALLS
1. DIMENSIONS ARE TO FINISH FACE OF PARTITIONS, FACE OF EXISTING FINISH OR CENTER LINE OF COLUMNS UNLESS SHOWN OR NOTED OTHERWISE. ALL EXISTING DIMENSIONS ARE BASED ON EXISTING DRAWINGS BUT MUST BE VERIFIED IN FIELD.
2. ALL PARTITIONS SHALL EXTEND FROM FLOOR TO UNDER SIDE OF DECK ABOVE EXCEPT WHERE NOTED OR SHOWN OTHERWISE.
3. EXTEND ALL SOUND RATED PARTITIONS TO THE UNDER SIDE OF DECK ABOVE TO PREVENT SOUND TRANSMISSION. FURNISH 4-1/4 POUNDS DENSITY GLASS FIBER INSULATION SHAPED TO FIT THE VOID ABOVE THE PARTITION WHERE AIR-BORNE SOUND CAN PENETRATE SPACES.
4. FOR LOCATIONS OF FIRE-RATED PARTITIONS SEE LS-101 AND LS-102
5. CONTROL JOINTS SHALL BE PROVIDED ABOVE DOORS AT EACH SIDE IN STUD AND GWB PARTITIONS.
6. EXPANSION JOINTS AT ALL FLOORS, CEILINGS AND WALLS THAT ARE EXPOSED TO VIEW SHALL BE COVERED WITH EXPANSION JOINT COVERS APPROPRIATE FOR FINISHED SURFACES.
7. ALL COLUMNS WITHIN FINISHED SPACES SHALL BE FINISHED WITH SAME MATERIALS SCHEDULED AT WALLS UNLESS OTHERWISE SHOWN OR DETAILED.
8. PROVIDE ALL WALL AND FLOOR OPENINGS FOR MECHANICAL AND ELECTRICAL ITEMS. ALL OPENINGS MORE THAN 16 INCHES WIDE IN MASONRY PARTITIONS SHALL HAVE LINTELS AS SCHEDULED ON THE STRUCTURAL DRAWINGS.
9. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS.
10. PROVIDE MOLD-RESISTANT GWB AT BUILD-OUT, TYPICAL.
11. FOR WALL PARTITION TYPES, SEE SHEET AE-600..

B. DOORS AND FRAMES
1. PROVIDE LABELS ON DOORS AND FRAMES WHERE SCHEDULED.
2. INSTALL CONTINUOUS CAULKING AROUND METAL FRAMES UNLESS NOTED OTHERWISE.
3. HOLLOW METAL FRAMES SHALL BE ANCHORED TO THE STRUCTURAL FLOOR WITH A MINIMUM OF TWO (2) ANCHOR BOLTS.
4. HOLLOW METAL FRAMES IN STUD PARTITIONS SHALL BE FILLED WITH GROUT TO THE DEPTH OF THE FRAME ANCHOR FULL HEIGHT FOR SOUND DAMPENING BEFORE SETTING IN PLACE.
5. INSTALL CASING BEADS AND CAULK WHERE GWB ABUTS METAL FRAMES.
6. DOOR TYPES AND SIZES ARE SHOWN ON SHEET AE-600.

C. MISCELLANEOUS
1. SEE PHYSICIST'S REPORT FOR SHIELDING REQUIREMENTS INCLUDING LOCATIONS AND MINIMUM LEAD THICKNESS FOR SURFACES.



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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: PROPOSED FLOOR PLAN	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS	Project Number: 672-22-810
			Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201	Drawing Number: AE-101B
		Issue Date: 04/22/2024 / Checked: RSM / Drawn: PJG	

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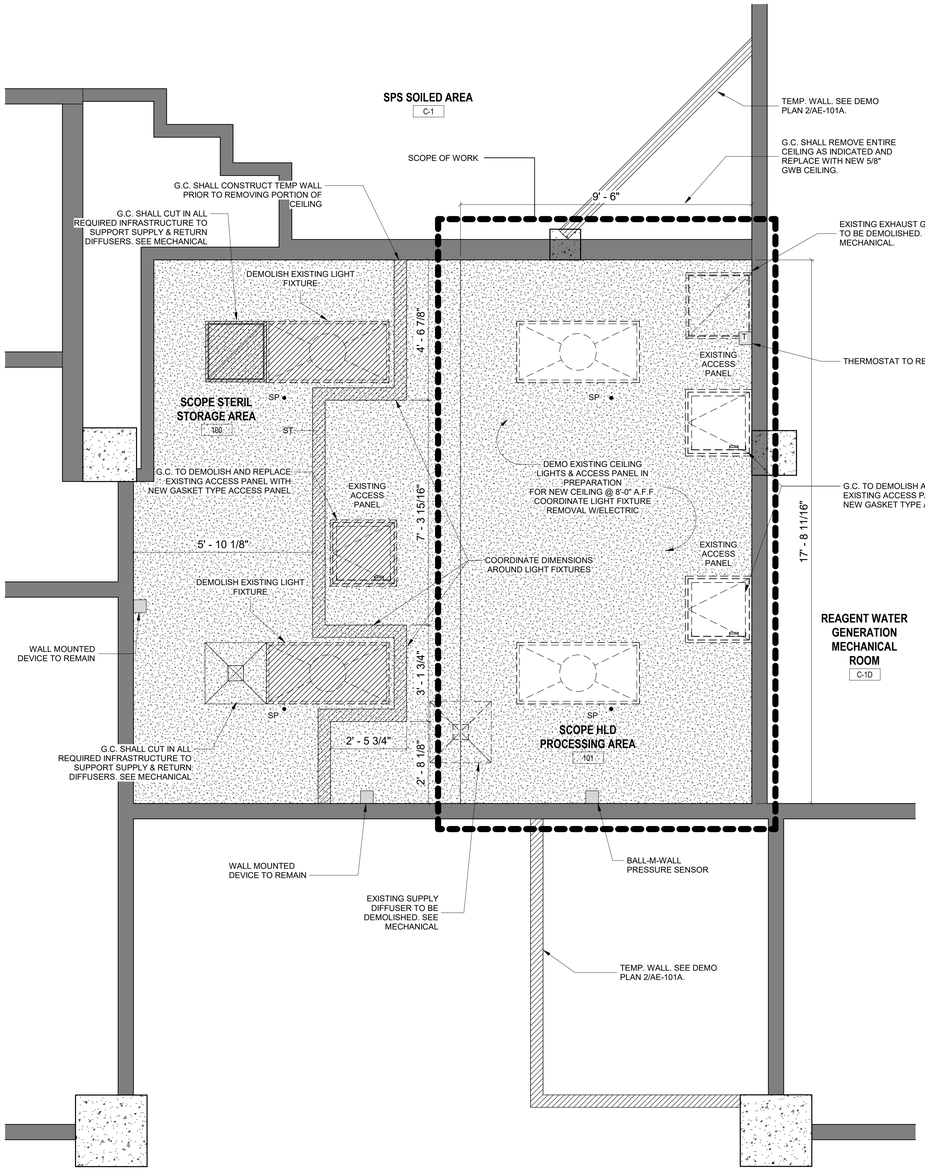
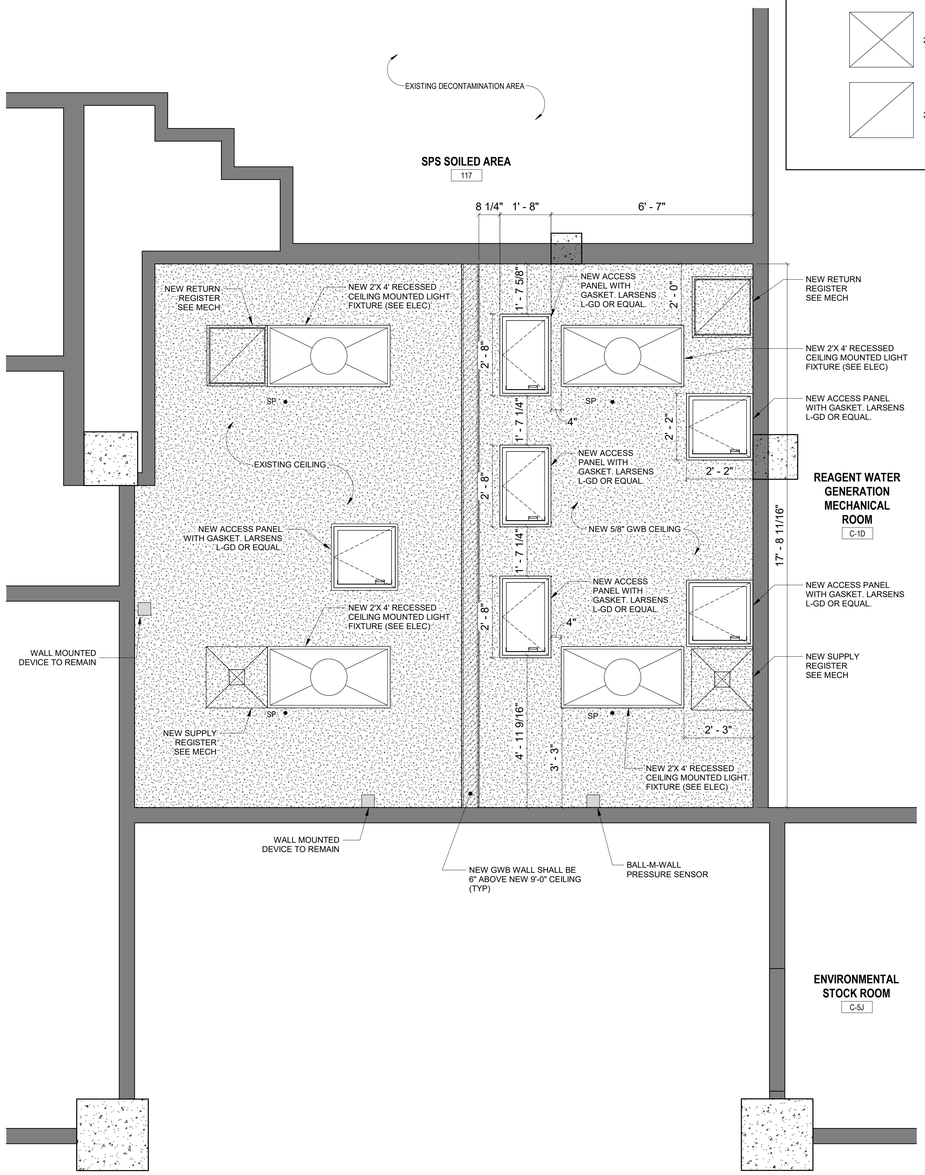
NOTE:
COORDINATE ACCESS PANEL WITH LIGHTING AND HVAC



1 CEILING DEMO PLAN
1/2" = 1'-0"

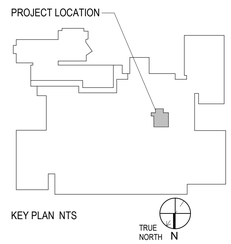
NOTE:
FIRE SPRINKLERS TO CONFORM WITH 61G15 DESIGN
SEE PLUMBING FOR LAYOUT AND DETAILS
G.C. COORDINATE FOR FIRE SPRINKLERS WITH ENGINEER



2 PROPOSED REFELCTED CEILING PLAN
1/2" = 1'-0"

LEGEND

- DEMOLISHED CEILING
- NEW CEILING
- 2'X4' LED LIGHT FIXTURE
- 2'X2' SUPPLY REGISTER
- 2'X2' RETURN REGISTER



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Drawing Title: REFLECTED CEILING PLAN	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS		Project Number: 672-22-810
				Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201		Drawing Number: AE-122A
		Issue Date: 04/22/2024	Checked: RSM / Drawn: PJG	

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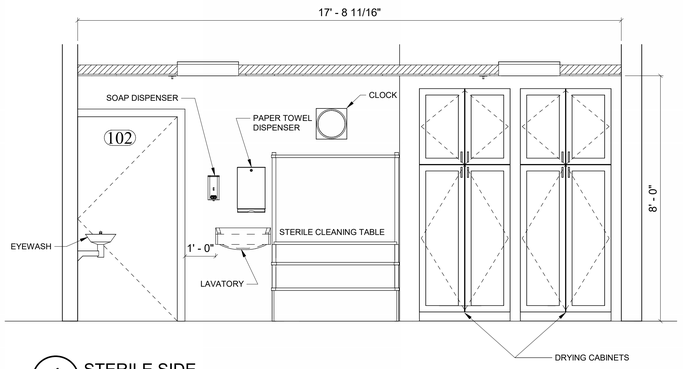
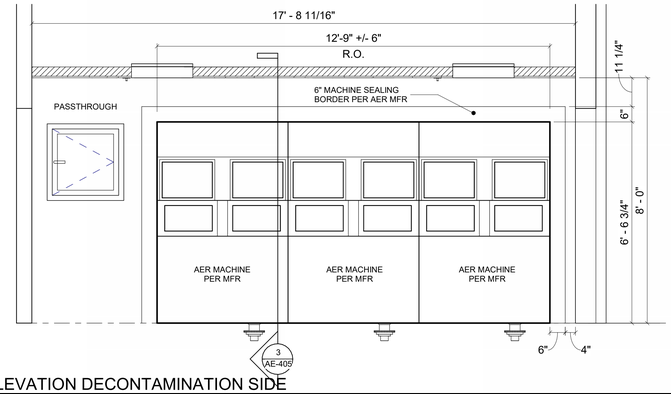
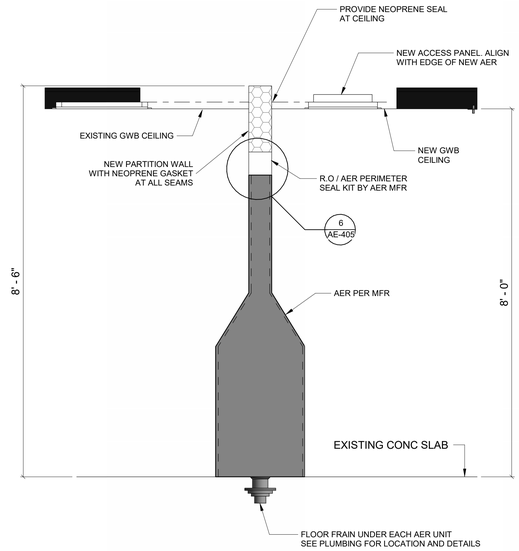


1 STERILE SIDE
1/2" = 1'-0"



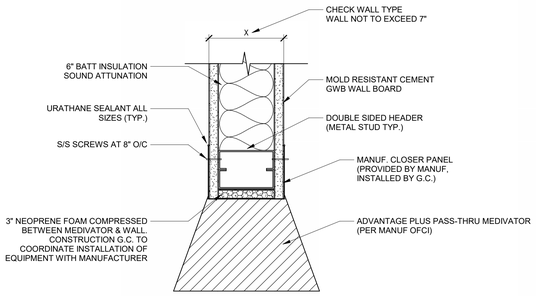
2 ELEVATION DECONTAMINATION SIDE
1/2" = 1'-0"



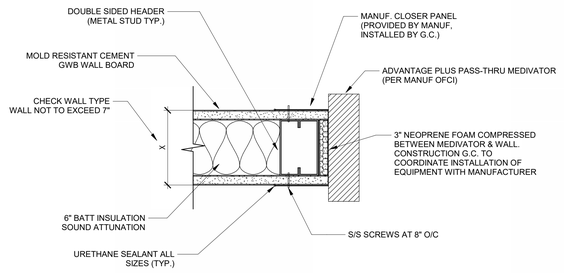
3 AER MANCHINE WALL SECTION
3/4" = 1'-0"

4 ELEVATION STERILE SIDE
1/2" = 1'-0"

5 ELEVATION WALL OUTSIDE DECONTAMINATION
1/2" = 1'-0"



6 HM FRAME DOOR DETAILS
3" = 1'-0"



7 HM FRAME DOOR DETAILS
3" = 1'-0"

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REVISIONS		
NO.	DESCRIPTION	DATE

CONSULTANT

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: INTERIOR ELEVATIONS AND DETAILS	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS		Project Number: 672-22-810
				Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201		Drawing Number: AE-405
		Issue Date: 04/22/2024	Checked: RSM / Drawn: PJG	

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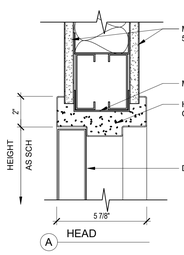
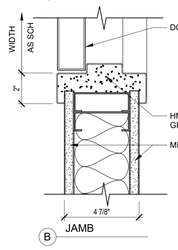
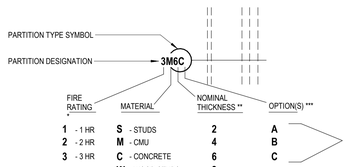
VA FORM 08 - 6231





HM FRAME DOOR DETAILS



SUGGESTED OPTIONS LIST

A - ACOUSTICAL INSULATION
B - BOTH FACES
C - GWB TO 6" ABOVE CEILING
D - DOUBLE WALL
H - SHAFTWALL
L - LEAD LINED (THICKNESS)
O - ONE FACE ONLY
P - PARTIAL HEIGHT PARTITION
R - RIGID INSULATION W/ GWB COVERING (or RESILIENT CHANNEL)
S - SMOKE PARTITION / BARRIER
T - TEMPORARY PARTITION
Z - STAGGERED STUDS (ACOUSTICAL)
2 - 2 LAYERS GWB

* - DESIGNATION NOT INDICATED FOR NON-RATED PARTITIONS

** - DESIGNATION NOT INDICATED FOR PROJECT STANDARD THICKNESS

*** - DESIGNATION NOT INDICATED IF OPTIONS ARE NOT APPLICABLE; ONE OR TWO OPTION DESIGNATORS MAY BE USED.

PARTITION TYPES LEGEND

GENERAL NOTES:

1. PROVIDE MINIMUM 0.0312" STUDS @ WALLS TO RECEIVE FINISH (TILE, STONE, WOOD, ETC).
2. PROVIDE MINIMUM 0.0312" STUDS @ JAMBS OF DOOR AND FIXED GLASS FRAMES. @ OPEN PARTITION ENDS, AND WHERE PARTITION IS TO RECEIVE WALL MOUNTED SHELVES, CASEWORK, PLUMBING FIXTURES, ETC.
3. USE 5/8" FR GWB @ ALL FIRE-RATED PARTITIONS, ANCHOR W/ SCREWS @ 8" OC ON EDGES @ 12" OC IN FIELD PER UL DESIGN NUMBERS LISTED.
4. SEE ALL SPECIFICATIONS FOR GWB REQUIREMENTS @ TOILETS AND ALL WET AREAS.
5. APPLIES TO POWER AND COMMUNICATIONS, ETC.
   A) BACK-TO-BACK PLACEMENT OF OUTLET BOXES NOT PERMITTED.
   B) PLUG ALL UNUSED KNOCK-OUTS IN OUTLET BOXES WITH KNOCK-OUT CAPS.
   C) PROVIDE 'HILTI' FIRESTOP PUTTY PAD OR EQUAL TO OUTLET BOXES IN FIRE-RATED WALLS OR WHERE OTHERWISE INDICATED.
   D) DEPTH OF OUTLET BOX TO BE COMPATIBLE WITH STUD SIZES IN ORDER TO ACCOMMODATE BOX PAD.
6. PROVIDE BLOCKING @ WALL HUNG CASEWORK, EQUIPMENT, SHELVES, COUNTERTOPS, HEAVY WALL SCONCES, AND MAJOR ARTWORK.

INTERIOR STUD CHART NOTES:

* REFERENCE STEEL STUD MANUFACTURER ASSOCIATION'S STANDARDS FOR SECTION PROPERTIES AND DESIGN OF STUD SIZE LISTED HERE.

USE L/240 DEFLECTION CHART FOR ALL AREAS UNLESS OTHERWISE NOTED.

GEN NOTES & SPACING CHART

INTERIOR STUD GAGE AND SPACING CHART*

STUD WIDTH	DESIGN THICKNESS (GAGE)	STUD SPACING (INCHES)	PARTITION HEIGHT DEFLECTION VALUE 5 psf L/120	L/240	L/360	BRACING SPACING WHERE OCCURS
1 5/8"	0.0179" (25)	16"	10'-7"	8'-4"	-	4'-0" OC
		24"	9'-5"	7'-11"	-	4'-0" OC
	0.0312" (20)	16"	12'-1"	9'-8"	8'-5"	4'-0" OC
		24"	11'-0"	8'-9"	7'-8"	4'-0" OC
2 1/2"	0.0179" (25)	16"	13'-3"	11'-3"	9'-10"	6'-0" OC
		24"	11'-10"	10'-7"	9'-3"	6'-0" OC
	0.0312" (20)	16"	16'-5"	12'-10"	11'-2"	6'-0" OC
		24"	14'-10"	11'-7"	10'-0"	6'-0" OC
3 5/8"	0.0179" (25)	16"	15'-4"	14'-4"	12'-4"	8'-0" OC
		24"	13'-9"	13'-5"	11'-7"	8'-0" OC
	0.0312" (20)	16"	20'-8"	16'-5"	14'-3"	8'-0" OC
		24"	18'-6"	14'-9"	12'-9"	8'-0" OC
4"	0.0179" (25)	16"	17'-2"	15'-4"	13'-4"	8'-0" OC
		24"	15'-1"	14'-2"	12'-4"	8'-0" OC
	0.0312" (20)	16"	23'-1"	18'-4"	15'-11"	8'-0" OC
		24"	20'-9"	16'-5"	14'-3"	8'-0" OC
6"	0.0179" (25)	16"	19'-9"	19'-9"	17'-11"	10'-0" OC
		24"	16'-9"	16'-9"	16'-9"	10'-0" OC
	0.0312" (20)	16"	30'-10"	24'-6"	21'-4"	10'-0" OC
		24"	27'-2"	21'-7"	18'-10"	10'-0" OC

DOOR AND FRAME SCHEDULE - NOTES

1. THE CONTRACTOR SHALL CAREFULLY STUDY ANND COMPARE THE CONTRACT DOCUMENTS AND THIS SCHEDULE AND SHALL REPORT IN WRITING TO THE ARCHITECT ANY ERROR, INCONSISTANCY OR OMISSION THAT HE MAY DISCOVER.
2. ALL FRAMES SHALL BE CAULKED CONTINUOUSLY TO THE WALL ON BOTH SIDES.
3. DOOR SHALL BE ARRANGED TO BE OPENED READILY FROM THE EGRESS SIDE WHENEVER THE BUILDING IS OCCUPIED. LOCKS, IF PROVIDED SHALL NOT REQUIRE THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE, OR EFFORT FOR OPERATION FROM THE INSIDE OF THE BUILDING AS PER NFPD 101 5-2.1.5.
4. ALL HOLLOW METAL FRAMES SHALL BE WELDED CONSTRUCTION, 'KNOCK-DOWN' TYPE HOLLOW METAL FRAMES WILL NOT BE ALLOWED.
5. ALL TOP OF HOLLOW METAL FRAMES (DOORS & GLASS OPENINGS) TO ALIGN. FOR ADDITIONAL HORIZONTAL MULLIONS TO GLASS OPENING FRAMES REFER TO INTERIOR ELEVATIONS AS NOTED ON THE DRAWINGS.
6. ALL EXTERIOR DOORS SHALL BE FULLY WEATHERSTRIPPED.
7. ALL DOOR AND FRAME TO BE PAINTED (SEE SPECS.)
8. VERIFY WITH OWNER HARDWARE STANDARDS. MATCH ALL OWNER STANDARDS.
9. ALL DOORS SHALL HAVE STOPS. (GYNN-JOHNSON 50C WALL &/OR FB-13 FLOOR)
10. ALL LATCHES SHALL BE LEVER.
11. ALL HARDWARE SHALL HAVE 626 SATIN CHROMIUM FINISH OR FINISH AS SELECTED BY OWNER.
12. ALL DOORS EXISTING AND NEW KEYED DOORS SHALL RECEIVE NEW LOCK CORES AND SHALL BE KEYED TO MASTER. PROVIDE OWNER WITH 10 MASTER KEYS.
13. PROVIDE AND INSTALL BRUSHED S.S.KICK PLATES ON ALL PUSH SIDES OF DOORS 10" HIGH 2" L.D.W.
14. DOORS TO BE LOCKED BY ELECTRIFIED PANIC HARDWARE DEVICE TO PROVIDE POSITIVE LATCHING ON FIRE RATED DOOR. LOCATE CARD READER ON STRIKE SIDE AND CONNECT TO ELECTRIC PANIC TO PROVIDE ENTRY. EGRESS WILL BE BY PANIC FUNCTION AT ALL TIMES.

PRODUCT	SPECIFIED MANUFACTURER
1. HINGES	HAGER
2. LOCKS & LATCHES	SCHLAGE
3. CYLINDERS, KEYS, KEYING	SCHLAGE
4. EXIT DEVICES	VON DURPIN
5. DOOR CLOSERS	LCN
6. AUTO OPERATORS	STANLEY
7. DH STOPS/HOLDERS	GLYNN JOHNSON
8. MAGNETIC HOLD OPENS	LCN
9. WALL STOPS/FLOOR STOPS, FLUSHBOLTS	ROCKWOOD
10. KICK PLATES	ROCKWOOD
11. THRESHOLD/WEATHER-STRIP	NATIONAL GUARD
12. SILENCERS	IVES
13. COORDINATORS	ROCKWOOD
14. ASTRAGALS	PEMKO

Door and Frame Schedule - Notes

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILING
101	SCOPE HLD PROCESSING AREA	EPOXY RESIN SAND RESIN AND PREP TOP COAT FOR SMOOTH FINISH (TYP.)	6" EPOXY RESIN COVE BASE	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT	EPOXY PAINT
		CERAMIC CARPET/ COLOR Q1310-408 ASHTOP COAT AQUARMOR WBU FLAT	CERAMIC CARPET/ COLOR Q1310-408 ASHTOP COAT AQUARMOR WBU FLAT	SHERWIN WILLIAMS GRAVEL WHITE EPOXY PAINT	SHERWIN WILLIAMS GRAVEL WHITE EPOXY PAINT	SHERWIN WILLIAMS GRAVEL WHITE EPOXY PAINT	SHERWIN WILLIAMS GRAVEL WHITE EPOXY PAINT	SHERWIN WILLIAMS GRAVEL WHITE EPOXY PAINT

Room Finish Schedule

HARDWARE SCHEDULE AND NOTES

SET NO.1

DOORS: B & C

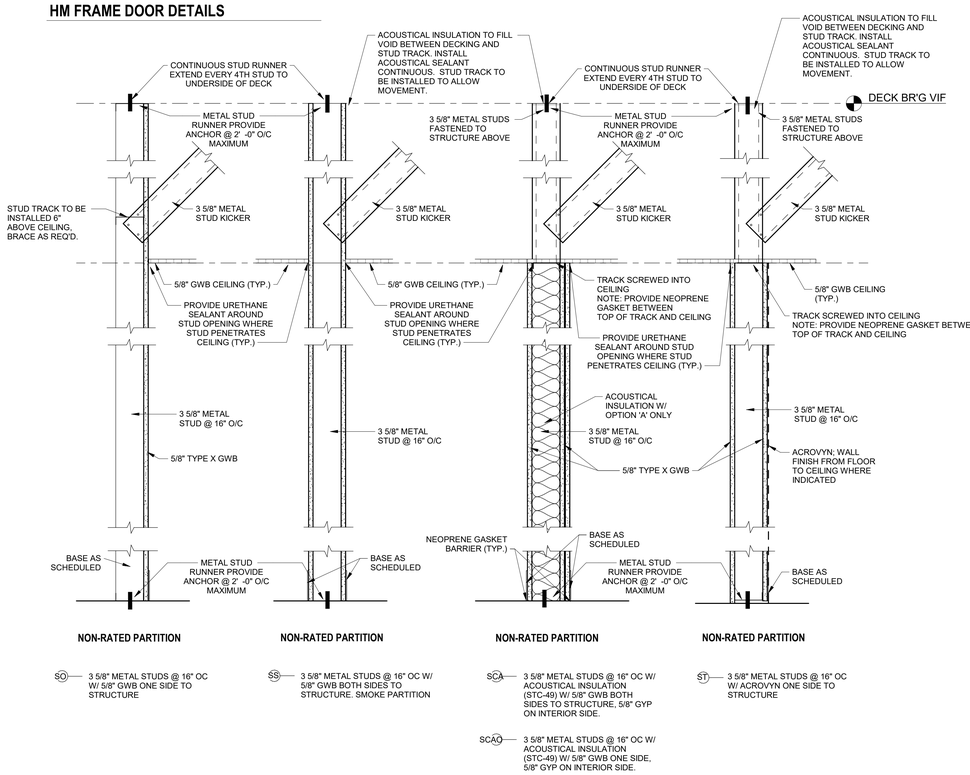
3 - HINGES - 41/2"X41/2" - BB1279 NRP
1 - STOREROOM LOCK - D80PD
2 - CLOSER - 4041
2 - SILENCERS - SR64
1 - WEATHER STRIPING - 160SDKB - 1-102A, 1-103A, R-100A ONLY

SET NO.2

DOOR: A

3 - HINGES - 41/2"X41/2" - BB1279 NRP
1 - CLOSER - 4041
3 - SILENCERS - SR64
1 - FLOOR STOP - 441
1 - PRIVACY SET - D405

Hardware Schedules & Notes



SO — 3 5/8" METAL STUDS @ 16" OC W/ 5/8" GWB ONE SIDE TO STRUCTURE

SS — 3 5/8" METAL STUDS @ 16" OC W/ 5/8" GWB BOTH SIDES TO STRUCTURE. SMOKE PARTITION

SCA — 3 5/8" METAL STUDS @ 16" OC W/ ACOUSTICAL INSULATION (STC-49) W/ 5/8" GWB BOTH SIDES TO STRUCTURE, 5/8" GYP ON INTERIOR SIDE.

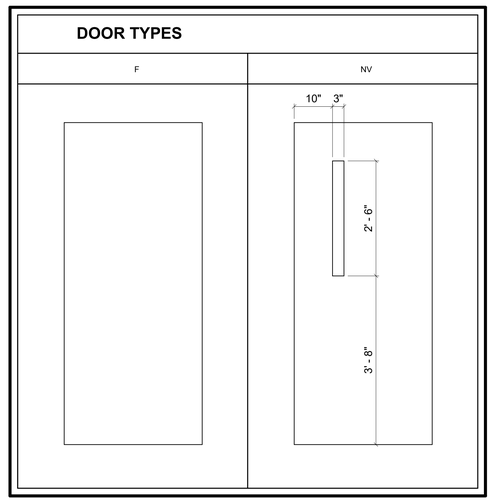
SCAO — 3 5/8" METAL STUDS @ 16" OC W/ ACOUSTICAL INSULATION (STC-49) W/ 5/8" GWB ONE SIDE, 5/8" GYP ON INTERIOR SIDE.

ST — 3 5/8" METAL STUDS @ 16" OC W/ ACROVYN ONE SIDE TO STRUCTURE

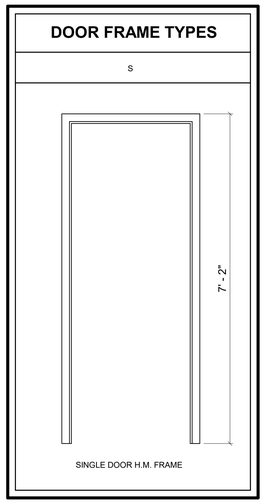
PARTITION TYPES

GENERAL NOTES:

1. G.C. SHALL COORDINATE WITH METAL FRAMING FABRICATOR. FABRICATOR WILL PROVIDE SHOP DRAWING FOR ALL LIGHT GAUGE FRAMING CONSTRUCTION (TYP.)



Door Types

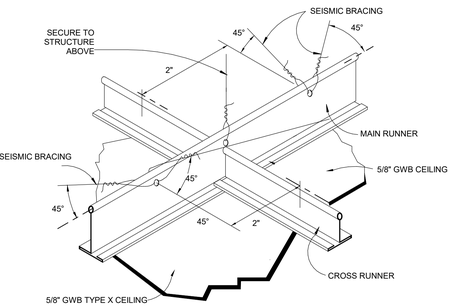


Door Frame Types

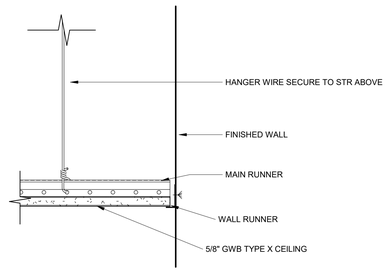
DOOR AND FRAME SCHEDULE

DOOR MARK	DOOR SIZE WIDTH	HEIGHT	THICK	MAT	TYPE	GLASS	UNDER CUT	FRAME MAT	TYPE	DETAILS ON S-202 JAMB	HEAD	SILL	FIRE RATING LABEL	HARDWARE SET NO.	KEYSIDE SPACE	REMARKS
102	3'-0"	7'-0"	1-3/4"	HM	F	-	-	HM	S	CS	CS	-	-	1	EXT	CARD READER - COORD W/ SECURITY & FACILITY

Door & Frame Schedule



SEISMIC SUSPENSION SYSTEM DETAIL



SEISMIC GYP BD CLG DETAIL

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS NO.	DESCRIPTION	DATE

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: PARTITION TYPES, DOOR SCHEDULE AND DETAILS	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS	Project Number: 672-22-810
			Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201	Drawing Number: AE-600
		Issue Date: 04/22/2024 / Checked: RSM / Drawn: PJG	

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MECHANICAL SYMBOLS AND ABBREVIATIONS

ABBR.	SYMBOL	REMARKS
SV	SV	STEAM VENT
CPD	CPD	CONDENSATE PUMP DISCHARGE
LPS	LPS	LOW PRESSURE STEAM SUPPLY
LPR	LPR	LOW PRESSURE STEAM RETURN
MPS	MPS	MEDIUM PRESSURE STEAM SUPPLY
MPR	MPR	MEDIUM PRESSURE STEAM RETURN
HPS	HPS	HIGH PRESSURE STEAM SUPPLY
HPR	HPR	HIGH PRESSURE STEAM RETURN
HWS	HWS	HEATING HOT WATER SUPPLY
HWR	HWR	HEATING HOT WATER RETURN
CHWS	CHWS	CHILLED WATER SUPPLY
CHWR	CHWR	CHILLED WATER RETURN
HWS	HWS	HOT WATER SUPPLY
HWR	HWR	HOT WATER RETURN
CD	CD	CONDENSATE DRAIN
RV	RV	RELIEF VENT
		ISOLATION VALVE
		BALL VALVE
		BUTTERFLY VALVE
		GATE VALVE
		GLOBE VALVE
		PLUG VALVE
		CHECK VALVE
		GAS COCK
		"TACO" BALANCING VALVE
		BALANCING VALVE
PRV		PRESSURE REDUCING VALVE
VB	VB	VACUUM BREAKER
		FLOW MEASURING DEVICE
		PIPE UNION OR FLANGE
		STRAINER
		RELIEF VALVE
		THERMOMETER
		PRESSURE GAGE WITH GAGE COCK
		ARROW INDICATES DOWNWARD PITCH OF PIPE
		ARROW INDICATES DIRECTION OF FLOW
		PIPE ECCENTRIC REDUCER
		PIPE CONCENTRIC REDUCER
		CAPPED END
		PIPE ELBOW UP
		PIPE ELBOW DOWN
		PIPE TEE UP
		PIPE TEE DOWN
		FLEXIBLE CONNECTOR
		EXPANSION JOINT
		AUTOMATIC FLOW CONTROL VALVE
		THERMOSTATIC EXPANSION VALVE
		AUTOMATIC AIR VENT
		MANUAL AIR VENT
		AUTOMATIC TWO-WAY VALVE
		AUTOMATIC THREE-WAY VALVE
		STEAM TRAP
		PIPE ALIGNMENT GUIDE
		PIPE ANCHOR
CO	CO	CLEAN-OUT

MECHANICAL SYMBOLS AND ABBREVIATIONS

ABBR	SYMBOL	REMARKS
	TYPE CFM	HORIZONTALLY MOUNTED EXHAUST/RETURN AIR REGISTER/GRILLE
	TYPE CFM	VERTICALLY MOUNTED EXHAUST/RETURN AIR REGISTER/GRILLE
	TYPE CFM	HORIZONTALLY MOUNTED SUPPLY AIR ROUND DIFFUSER
	TYPE CFM	HORIZONTALLY MOUNTED SUPPLY AIR DIFFUSER/REGISTER/GRILLE
	TYPE CFM	VERTICALLY MOUNTED SUPPLY AIR DIFFUSER/REGISTER/GRILLE
		RECTANGULAR DUCTWORK SUPPLY/OUTSIDE AIR ELBOW UP
		RECTANGULAR DUCTWORK SUPPLY/OUTSIDE AIR ELBOW DOWN
		RECTANGULAR DUCTWORK EXHAUST/RETURN/RELIEF AIR ELBOW UP
		RECTANGULAR DUCTWORK EXHAUST/RETURN/RELIEF AIR ELBOW DOWN
		ROUND DUCTWORK ELBOW UP
		ROUND DUCTWORK ELBOW DOWN
		FLAT-OVAL DUCTWORK ELBOW UP
		FLAT-OVAL DUCTWORK ELBOW DOWN
FD	FD	FIRE DAMPER
FSD	FSD	COMBINATION FIRE/SMOKE DAMPER
SD	SD	SMOKE DAMPER
VD	VD	VOLUME DAMPER
AD	AD	AUTOMATIC (MOTORIZED) DAMPER
DSD	DSD	DUCT MOUNTED SMOKE DETECTOR
SA	SA	SUPPLY AIR (* DUCT SIZE)
RA	RA	RETURN AIR (* DUCT SIZE)
EA	EA	EXHAUST AIR (* DUCT SIZE)
OA	OA	OUTSIDE AIR (* DUCT SIZE)
REL A	REL A	RELIEF AIR (* DUCT SIZE)
	24/12	FLAT-OVAL DUCT SIZE, FIRST NUMBER INDICATES SIZE FOR SIDE SHOWN
	24"	ROUND DUCT SIZE
	24X12	RECTANGULAR DUCT SIZE, FIRST NUMBER INDICATES SIZE FOR SIDE SHOWN
		DETAIL OR SECTION DESIGNATION (* DETAIL OR SECTION REFERENCE) (* SHEET NUMBER DETAIL OR SECTION DRAWN ON)
		NEW TO EXISTING DESIGNATION
		EQUIPMENT DESIGNATION (* EQUIPMENT MARK NUMBER)
		REFERENCE DESIGNATION (* NOTE NUMBER)
		REFERENCE DESIGNATION (* RISER NUMBER)
		HUMIDISTAT OR HUMIDITY SENSOR
		THERMOSTAT OR TEMPERATURE SENSOR
		PRESSURE SWITCH OR PRESSURE SENSOR
		AIR TERMINAL UNIT (W/ HOT WATER REHEAT COIL)
		VENTURI AIR VALVE
		DIFFERENTIAL PRESSURE SENSOR
		CARBON DIOXIDE SENSOR
		NEW TO EXISTING

MECHANICAL ABBREVIATIONS

ABBR.	REMARKS	ABBR.	REMARKS
ADJ	ADJUSTABLE	PSIG	POUND(S) PER SQUARE INCH GAGE
AFD	ADJUSTABLE FREQUENCY DRIVE	QTY	QUANTITY
AFF	ABOVE FINISHED FLOOR	REQD	REQUIRED
ALT	ALTERNATE	RH	RELATIVE HUMIDITY
AP	ACCESS PANEL	RL	REFRIGERANT LIQUID
APD	AIR PRESSURE DROP	RPM	REVOLUTIONS PER MINUTE
AVG	AVERAGE	RM	ROOM
BAS	BUILDING AUTOMATION SYSTEM	RS	REFRIGERANT SUCTION
BDD	GRAVITY BACKDRAFT DAMPER	SAT	SATURATION
BTUH	BRITISH THERMAL UNITS PER HOUR	SCFM	STANDARD CFM
CAP	CAPACITY	SHT	SHEET
CFH	CUBIC FEET PER HOUR	SIM	SIMILAR
CFM	CUBIC FEET PER MINUTE	SP	SUMP PUMP, STATIC PRESSURE
CI	CAST IRON	SQ	SQUARE
CLG	CEILING, COOLING	TD	TEMPERATURE DIFFERENTIAL
COND	CONDENSER, CONDENSATE	TEMP	TEMPERATURE
CONN	CONNECTION	TSP	TOTAL STATIC PRESSURE
DB	DRY BULB	UNO	UNLESS NOTED OTHERWISE
dB	DECIBEL(S)	V	VOLT(S)
DDC	DIRECT DIGITAL CONTROL	VAV	VARIABLE AIR VOLUME
DIA	DIAMETER	VEL	VELOCITY
DN	DOWN	VFD	VARIABLE FREQUENCY DRIVE
DX	DIRECT EXPANSION	VTR	VENT THRU ROOF
EAT	ENTERING AIR TEMPERATURE	W	WATT (S)
EFF	EFFICIENCY	WB	WET BULB
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	WG	WATER GAUGE
ESP	EXTERNAL STATIC PRESSURE	WPD	WATER PRESSURE DROP
EWT	ENTERING WATER TEMPERATURE		
EXH	EXHAUST		
EXST	EXISTING		
F	FAHRENHEIT		
FL	FLOOR		
FLA	FULL LOAD AMPS		
FLEX	FLEXIBLE		
FPM	FEET PER MINUTE		
FUT	FUTURE		
FXTR	FIXTURE		
GAL	GALLON(S)		
GPH	GALLON(S) PER HOUR		
GPM	GALLON(S) PER MINUTE		
HG	HOT GAS		
HP	HORSEPOWER		
HPS	HIGH PRESSURE STEAM		
HR	HOUR		
HTG	HEATING HOT		
HVAC	HEATING VENTILATING AND AIR CONDITIONING		
HZ	HERTZ		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
IN	INCH (ES)		
I/O	INPUT/OUTPUT		
KW	KILOWATT(S)		
LAT	LEAVING AIR TEMPERATURE		
#	POUNDS		
LBS	POUNDS		
LF	LINEAR FOOT, LINEAR FEET		
LPS	LOW PRESSURE STEAM		
LWT	LEAVING WATER TEMPERATURE		
MAX	MAXIMUM		
MBH	THOUSANDS BTU/HR		
MCC	MOTOR CONTROL CENTER		
MFR	MANUFACTURER		
MISC	MISCELLANEOUS		
MIN	MINUTE(S), MINIMUM		
MPC	MEDIUM PRESSURE CONDENSATE		
MPS	MEDIUM PRESSURE STEM		
MTD	MOUNTED		
NC	NORMALLY CLOSED, NOISE CRITERIA		
NO	NORMALLY OPEN, NUMBER		
NR	NOISE REDUCTION		
NRC	NOISE REDUCTION COEFFICIENT		
NTS	NOT TO SCALE		
OD	OUTSIDE DIAMETER		
O S & Y	OUTSIDE SCREW AND YOKE VALVE		
PC	PUMPED CONDENSATE		
PD	PRESSURE DROP		
PH	PHASE		
PLBG	PLUMBING		
PSI	POUND(S) PER SQUARE INCH		
PSIA	POUND(S) PER SQUARE INCH ABSOLUTE		

MECHANICAL DEMOLITION NOTES:

1. UNLESS OTHERWISE NOTED, ALL MECHANICAL EQUIPMENT AND DEVICES ON WALLS AND CEILING NOT BEING DEMOLISHED ARE EXISTING TO REMAIN UNLESS REQUIRED BY NEW CONSTRUCTION. COORDINATE WITH VA RESIDENT ENGINEER ANY ADDITIONAL ITEMS WHICH WILL BE SALVAGED OR ARE TO REMAIN.
2. DEMOLITION WORK IS SHOWN IN DASHED LINES AND HEAVY PENWEIGHT. EXISTING WORK TO REMAIN IS SHOWN IN SOLID LINE AND LIGHT PENWEIGHT.
3. PREVAIL ALL MECHANICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. CONTRACTOR SHALL REROUTE AND RECONNECT ANY SYSTEMS THAT WILL REMAIN IN USE BUT INTERFERES WITH NEW CONSTRUCTION.
4. EXISTING MECHANICAL ITEMS THAT ARE BEING REMOVED AND NOT TO BE REUSED IN THE NEW CONSTRUCTION SHALL BE DISPOSED OF AS DIRECTED. REMOVAL AND DISPOSAL OF THE EXISTING ITEMS IS THE CONTRACTORS RESPONSIBILITY.
5. IF THE CONTINUITY OF MECHANICAL DEVICES AND EQUIPMENT REMOVED IN THE AREAS OUTSIDE THIS DEMOLITION WORK AREA IS INTERRUPTED, THE CONTRACTOR SHALL INSTALL REQUIRED DUCTWORK/PIPING TO INSURE THE CONTINUITY OF SYSTEMS TO EXISTING AREAS OUTSIDE THE DEMOLITION AREAS.
6. DRAWINGS ARE BASED ON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. CONTRACTOR SHALL VISIT EXISTING BUILDING AND FAMILIARIZE HIM/HER-SELF WITH EXISTING CONDITIONS AND SHALL EXAMINE ALL RELATED DRAWINGS TO AVOID CONFLICTS. ORIGINAL BUILDING DRAWINGS ARE AVAILABLE.
7. CONTRACTOR TO COORDINATE WITH ARCHITECTURE, ELECTRICAL, PLUMBING AND OTHER TRADES FOR ALL EQUIPMENT BEING REMOVED. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL MECHANICAL WORK WITH ALL SUBCONTRACTORS, PRIME CONTRACTOR AND OTHERS WHO MAY BE PERFORMING DEMOLITION WORK ADJACENT TO OR INTEGRAL TO THE MECHANICAL WORK.
8. ALL EXISTING ITEMS THAT ARE TO BE REINSTALLED SHALL BE INSPECTED AND VERIFIED FOR PROPER OPERATION. IF ANY ITEM IS NOT IN A WORKING CONDITION OR IS DAMAGED, THE ITEM SHALL BE BROUGHT TO THE ATTENTION OF THE VA RESIDENT ENGINEER FOR DIRECTION.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REMOVAL, REPLACEMENT, DISCONNECTING, RELOCATIONS, RECONNECTIONS OF EQUIPMENT AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF NEW WORK OR REMOVAL.
10. SCHEDULE WORK IN EXISTING BUILDING AT TIMES CONVENIENT TO VA RESIDENT ENGINEER.
11. INFORM VA RESIDENT ENGINEER IN ADVANCE OF ANY SHUT DOWN THAT WILL OCCUR AND GIVE ESTIMATE OF DURATION. BEGIN WORK ONLY AFTER CONTRACTING OFFICER HAS AGREED TO SHUT DOWN.
12. THOROUGHLY INSPECT MECHANICAL SYSTEMS IN REWORKING AREAS AND BRING TO THE ATTENTION OF THE CONTRACTING OFFICER ALL DEFECTIVE OR UNSERVICEABLE MATERIAL NOT SCHEDULED FOR REMOVAL OR REPLACEMENT.
13. BEFORE REMOVAL OF EQUIPMENT TO BE RELOCATED, VERIFY PROPER OPERATION WITH THE VA RESIDENT ENGINEER.
14. NOTIFY VA RESIDENT ENGINEER OF ANY EQUIPMENT DAMAGED OR NOT OPERATING PROPERLY. THE CONTRACTOR IS RESPONSIBLE FOR PROPER OPERATION AND CONDITION OF EQUIPMENT AFTER REMOVAL. ANY EQUIPMENT DAMAGE DUE TO IMPROPER INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR.
15. REMOVE AND RELOCATE ALL MECHANICAL WORK AS REQUIRED TO PROVIDE WORK OF OTHER TRADES. PROVIDE ALL MECHANICAL MATERIALS AND LABOR NECESSARY TO RELOCATE MECHANICAL WORK.
16. ITEMS INDICATED TO BE RETURNED TO THE VA RESIDENT ENGINEER SHALL BE DELIVERED TO THE LOCATION ON SITE DESIGNATED BY THE VA RESIDENT ENGINEER.

MECHANICAL GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES.
2. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC ONLY.
3. THE CONTRACTOR IS REQUIRED TO FURNISH ALL LABOR, MATERIAL AND EQUIPMENT TO COMPLETE THE PROJECT. PROVIDE IN THE SAME OR AS CLOSE TO THE SAME LOCATION ALL MECHANICAL DEVICES AND EQUIPMENT REMOVED IN THE DEMOLITION PHASE. WORK SHALL BE PERFORMED BY SKILLED WORKERS IN THEIR RESPECTIVE TRADES FOLLOWING MANUFACTURERS RECOMMENDATIONS.
4. EXISTING WORK TO REMAIN IS SHOWN IN SOLID LINES AND LIGHT PENWEIGHT. NEW WORK IS SHOWN IN HEAVY PENWEIGHT.
5. CONTRACTOR TO COORDINATE ARCHITECTURAL, ELECTRICAL, PLUMBING AND OTHER TRADES FOR ALL EQUIPMENT BEING INSTALLED. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL MECHANICAL WORK WITH ALL SUBCONTRACTORS, PRIME CONTRACTOR AND OTHERS WHO MAY BE PERFORMING INSTALLATION WORK ADJACENT TO OR INTEGRAL TO THE MECHANICAL WORK.
6. WORK REQUIRING SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED AND PLANNED WITH THE CONTRACTING OFFICER PRIOR TO THE START OF CONSTRUCTION.
7. CONTRACTOR SHALL PROVIDE TEST AND BALANCE OF SYSTEMS AFTER WORK IS COMPLETED. AIRFLOW AND WATER FLOW VALUES SHALL BE RETURNED TO NEW VALUES WHERE SHOWN ON PLANS AND TO PRE-DEMOLITION RECORDED VALUES WHERE NEW VALUES ARE NOT SHOWN.
8. THE CONTRACTOR SHALL SEISMICALLY BRACE ALL EXISTING AND NEW NON STRUCTURAL ELEMENTS FALLING WITHIN RENOVATION "LIMITS OF CONSTRUCTION" AS REQUIRED BY CODE. REFER TO SPECIFICATION SECTION 130541 (SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS) FOR ADDITIONAL INSTRUCTIONS.

MECHANICAL SHEET INDEX

APPLICABLE CODES & MANUALS

VA MASTER SPECIFICATIONS PG-18-1

VA DESIGN AND CONSTRUCTION PROCEDURES PG-18-3

VA SEISMIC DESIGN REQUIREMENTS H-18-8

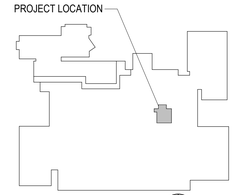
VA HVAC DESIGN MANUAL PG-18-10

VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1-2004

INTERNATIONAL BUILDING CODE - 2018 (IBC) AND REFERENCED FAMILY OF CODES (IMC, IECC, IFC AND IPC)

CDC GUIDANCE FOR ENVIRONMENTA INFECTION CONTROL IN HEALTHCARE FACILITIES (PER HICPAC)

PROJECT LOCATION



KEY PLAN NTS

TRUE NORTH N

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL COVER SHEET	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS	Project Number: 672-22-810
			Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201	Drawing Number: MH-001
		Issue Date: 04/22/2024 / Checked: RSM / Drawn: PJG	

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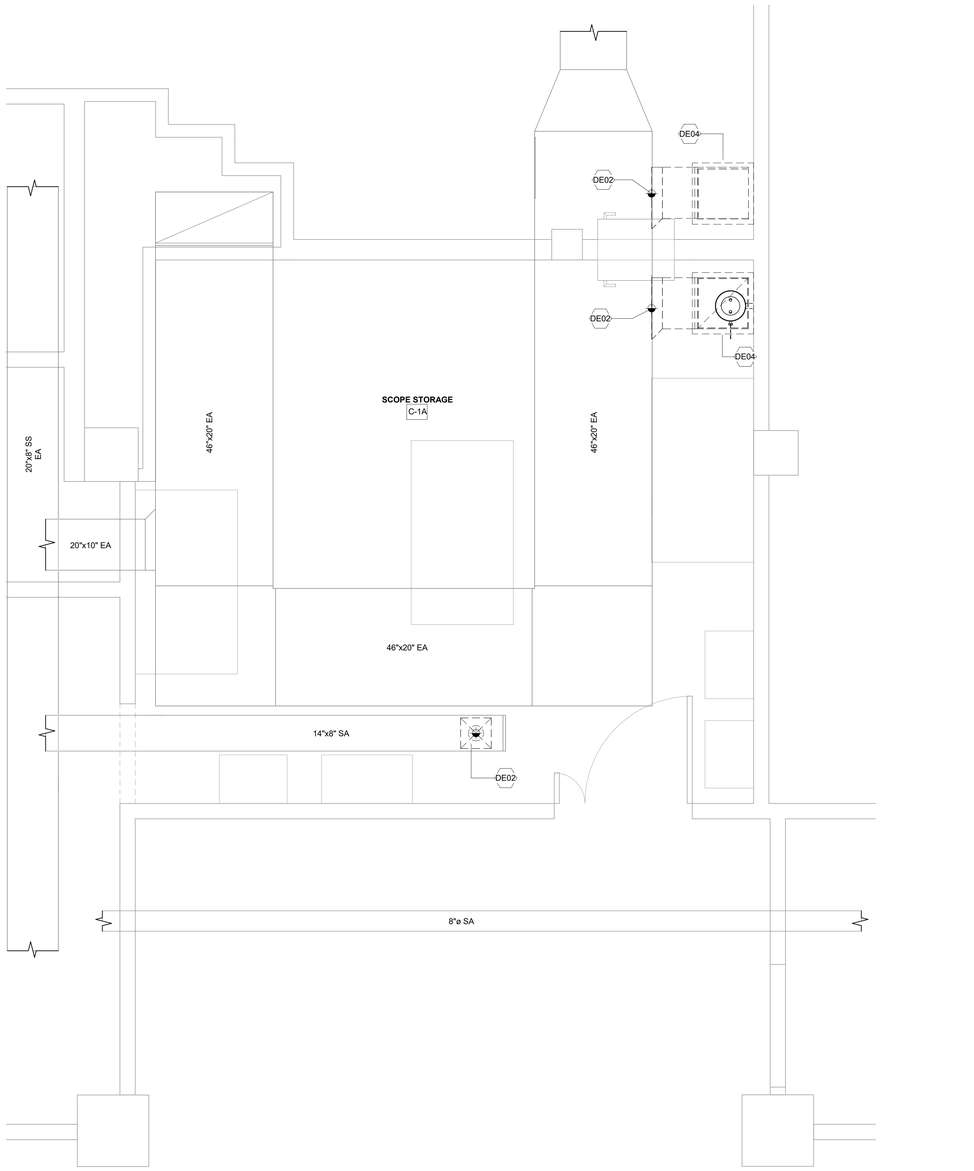
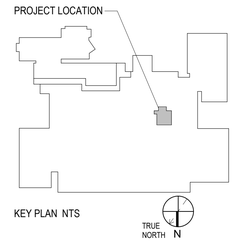


Mechanical Demolition Floor Plan - HLD
1 SPS
1/2" = 1'-0"

KEYNOTE LEGEND

DE02	DUCTWORK TO BE CAPPED.
DE04	EXHAUST AIR GRILLE TO BE RELOCATED. REFER TO SHEET MD-102 FOR NEW LOCATION.



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VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DEMOLITION PLAN	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS	Project Number: 672-22-810
			Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201	Drawing Number: MD-101
		Issue Date: 04/22/2024 · Checked: RSM · Drawn: PJG	

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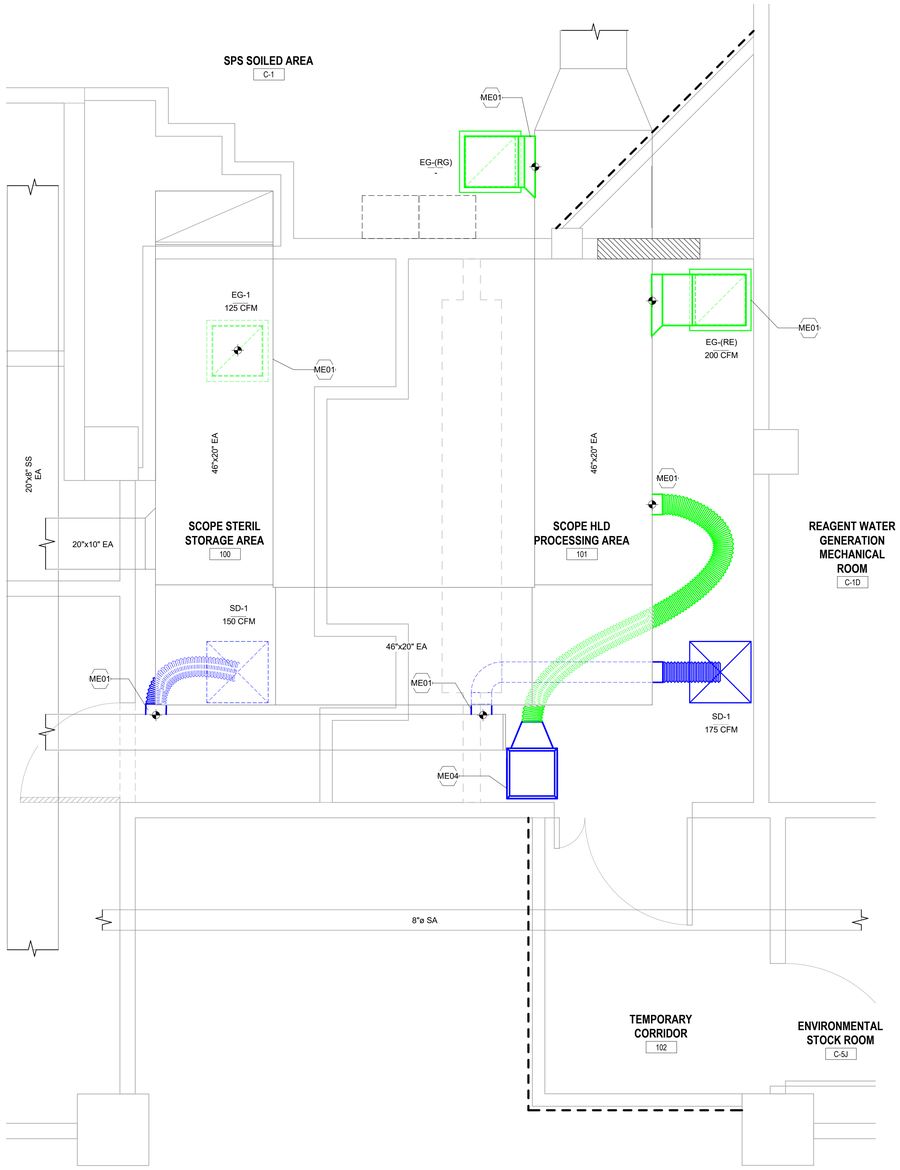
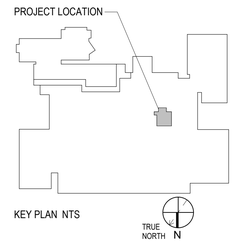


1 Mechanical Demolition Phase - Floor Plan - HLD SPS
1/2" = 1'-0"

KEYNOTE LEGEND

ME01	CONNECT TO EXISTING DUCTWORK SYSTEM.
ME04	PROVIDE PORTABLE AIR SCRUBBER DURING INTERIM CONSTRUCTION PHASE WITH HEPA FILTER. CONNECT TO EXHAUST SYSTEM WITH FLEXIBLE DUCT AND LOCKING COLLAR. PROVIDE WITH CORRUGATED ALUMINUM FLEXIBLE DUCTWORK. CAP DUCTWORK CONNECTION POST INTERIM CONSTRUCTION PHASE. BASIS OF DESIGN MODEL: PREDATOR PORTABLE AIR SCRUBBER PRED1200.



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VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL PHASING PLAN

Phase: CD(100%CD-ISSUE FOR BID)

Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS

Project Number: 672-22-810

Building Number: 1

Approved:

FULLY SPRINKLERED

Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201

Issue Date: 04/22/2024

Checked: RSM

Drawn: PJG

Drawing Number: MD-102

4/22/2024 11:07:15 AM

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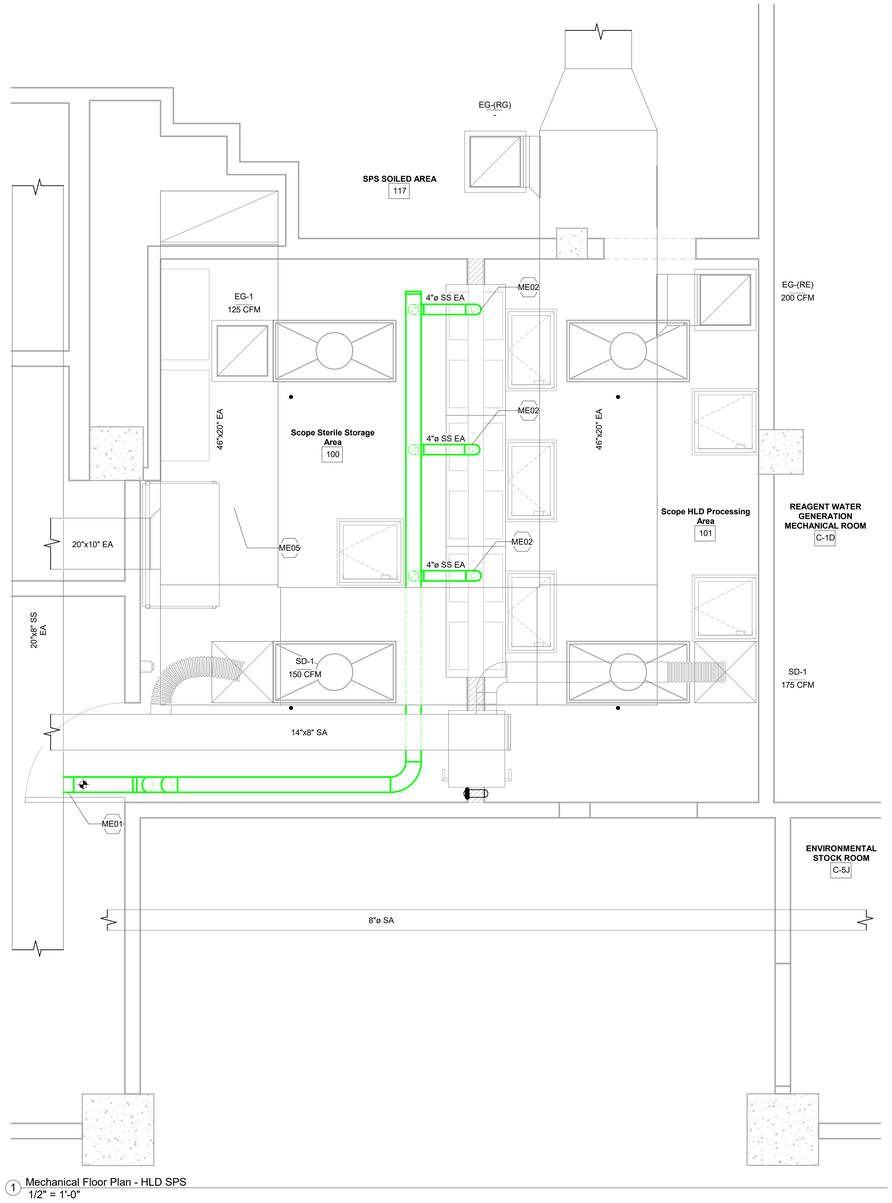
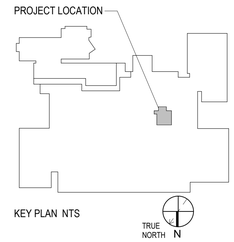


1 Mechanical Floor Plan - HLD SPS
1/2" = 1'-0"

KEYNOTE LEGEND

ME01	CONNECT TO EXISTING DUCTWORK SYSTEM.
ME02	PROVIDE NEW 4" ROUND DUCT TO NEW PASS-THRU AER EQUIPMENT. SLOPE DUCTWORK TOWARDS NEW AER EQUIPMENT. REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR CONNECTION INFORMATION.
ME05	PROVIDE MANUAL ROOM PRESSURE MONITOR. BASIS OF DESIGN: AIRFLOW DIRECTION - BALL-IN-THE-WALL.



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Drawing Title: MECHANICAL FLOOR PLAN	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS		Project Number: 672-22-810
				Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201		Drawing Number: MH-101
		Issue Date: 04/22/2024	Checked: RSM / Drawn: PJG	

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DUCT CONSTRUCTION SCHEDULE

DUCTWORK SYSTEM	DUCTWORK SYSTEM ABBREVIATION	DUCTWORK LOCATION	DUCTWORK SHAPE	DUCTWORK MATERIAL	DUCTWORK INSULATION	DUCT CONSTRUCTION STANDARD
SUPPLY AIR - LOW PRESSURE	SA	CONCEALED ABOVE THE CEILING (CONDITIONED PLENUM)	SQUARE / ROUND	GALVANIZED SHEET STEEL; LOCK- FORMING QUALITY; ASTM A653/A 653M, G90 COATING DESIGNATION; MIL-PHOSPHATIZED FINISH FOR SURFACES OF DUCT EXPOSED TO VIEW	R4.2 EXTERNAL	SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE - ± 2" WG
AER EXHAUST DUCTWORK	SS	CONCEALED ABOVE THE CEILING (CONDITIONED PLENUM)	SQUARE	STAINLESS SHEET MADE LIQUID TIGHT WITH CONTINUOUS EXTERNAL WELD FOR ALL SEAMS AND JOINS. PROVIDE NEOPRENE GASKETS AT FLANGED CONNECTIONS.	2 - HOUR RATED ZERO CLEARANCE FIRE WRAP	SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL - ± 2" WG
SUPPLY/ RETURN AIR - FLEX DUCTS	SA	CONCEALED ABOVE THE CEILING (UNCONDITIONED SPACE)	ROUND	COMPLY UL 181 CLASS 1, FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH A POLYETHYLENE FILM OUTER JACKET ENCLOSING GLASS FIBER INSULATION (R-6) AROUND A CONTINUOUS POLYETHYLENE INNER LINER. THE INNER LINER SHALL HAVE AN ENCAPSULATED STEEL WIRE HELIX.	R6	SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE - ± 2" WG

NOTES:

1. REFER TO SPECIFICATION SECTION 23 31 00.
2. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
3. ALL OUTSIDE AIR DUCT INTAKES SHALL BE LOCATED BEYOND 10'-0" OF ANY VENTILATION OUTLET OR SANITARY VENT PIPE AND SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL NOT LARGER THAN 1/2" MESH PER FMC 2020, 401.4 AND 401.5. ALLL OUTSIDE AIR INTAKES SHALL BE MARKED WITH A PERMANENT PLATE TITLED "INTAKE FOR UNIT NUMBER (#)" (E.G. "INTAKE FOR AHU-1", "INTAKE FOR FCU-1-1", ETC.)
4. ALL EXHAUST AIR FANS AND VENTS SHALL BE LOCATED BEYOND 10'-0" OF ANY OUTSIDE AIR INTAKE OR FAN. ALL EXHAUST AIR FANS SHALL BE MARKED WITH A PERMANENT PLATE TITLED "EXHAUST FAN FOR UNIT NUMBER(#) OR AREA". (E.G. "EF-1 FOR LOCKER ROOM", "EF-1-1 FOR GRD FL TOILET", ETC.)
5. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
6. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED WITH TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	MANUF.	MODEL NO.	FACE SIZE	NECK SIZE / LENGTH	THROW / SLOTS	FRAME TYPE	FINISH	VOLUME DAMPER	FIRE DAMPER	NOTES
SD-1	TITUS	OMNI-AA	24" X 24"	PER PLANS	PER PLANS	LAY-IN	NOTE 1	NOTE 2	N/A	1,2,3,4,5
EG-1	TITUS	350FL	24" X 24"	-	FIXED	LAY-IN	NOTE 1	NOTE 2	N/A	1,2,3

SPECIAL NOTES: "* ALL DIFFUSERS SELECTED WITH NC RATING < 20 "

1. COORDINATE COLOR WITH ARCHITECT
2. PROVIDE VOLUME DAMPER AT THE FLEX TAP. PROVIDE YOUNG REGULATOR FOR VOLUME DAMPERS IN INACCESSIBLE AREAS.
3. PROVIDE TITUS RAPID MOUNT FRAME FOR STANDARD 24" x 24" LAY-IN STYLE DIFFUSERS MOUNTED IN HARD CEILINGS, & FOR ALL 12" X 12" SUPPLY DIFFUSERS - REGARDLESS OF THE MOUNTING LOCATION.
4. PROVIDE OPTIONAL R-6 MOLDED INSULATION BLANKET FOR ALL LAY-IN STYLE DIFFUSERS.
5. THROW IS ASSUMED TO BE 4-WAY UNLESS SPECIFIED OTHERWISE ON PLANS.

APPROVED ALTERNATES: PRICE, NAILOR, TUTTLE & BAILEY, KRUEGER

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES

Phase: CD(100%CD-ISSUE FOR BID)

Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS

Project Number: 672-22-810

Building Number: 1

Approved:

FULLY SPRINKLERED

Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201

Issue Date: 04/22/2024

Checked: RSM

Drawn: PJG

Drawing Number: MH-401

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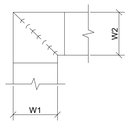
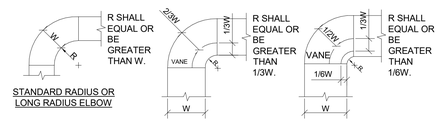


NOTE:

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.

1 DUCTWORK SQUARE VANE ELBOWS

NTS

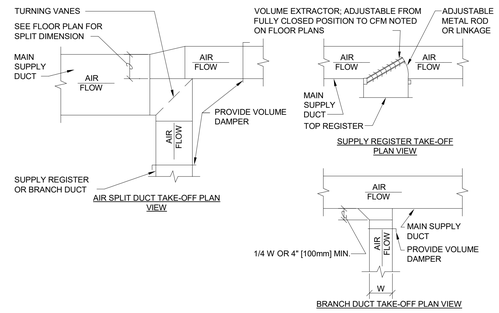


NOTE:

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.

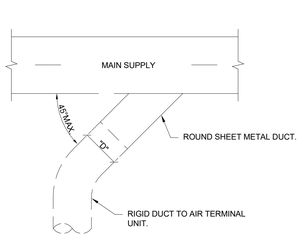
2 DUCTWORK RADIUS ELBOWS

NTS



3 SUPPLY DUCTWORK TAKE-OFFS

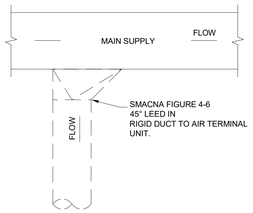
NTS



PLAN VIEW

4 SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT

NTS



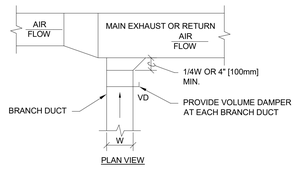
PLAN VIEW

5 ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS

NTS

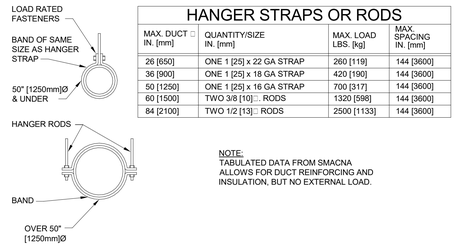
DESIGNER'S NOTES:

1. THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP UP TO 25% OF THE MAIN DUCT CFM. THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM [5.1 MS] OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES AND MAY BE USED AT ANYTIME.
2. SHOW ALL VOLUME DAMPERS ON FLOOR PLANS.



6 EXHAUST OR RETURN BRANCH DUCTWORK

NTS

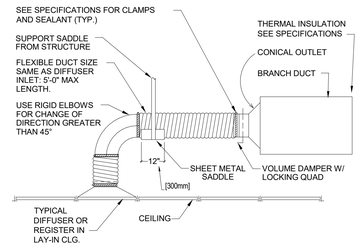


HANGER STRAPS OR RODS			
MAX. DUCT □ IN. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10]□.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

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

7 ROUND DUCT HANGERS

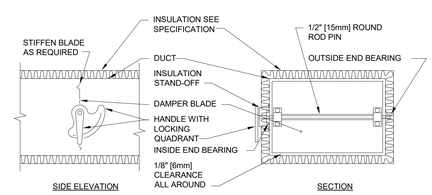
NTS



NOTE:
THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

9 FLEXIBLE AIR DUCT CONNECTOR

NTS



NOTE:

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.

10 VOLUME DAMPER DETAIL

NTS

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS

Approved:

Phase: CD(100%CD-ISSUE FOR BID)

FULLY SPRINKLERED

Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS

Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201

Issue Date: 04/22/2024

Checked: RSM

Drawn: PJG

Project Number: 672-22-810

Building Number: 1

Drawing Number: MH-501

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VA FORM 08 - 6231

GENERAL FIRE SPRINKLER NOTES

1. ALL FIRE SPRINKLER WORKS TO BE INSTALLED BY A FIRE SPRINKLER CONTRACTORS CERTIFIED IN PUERTO RICO.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE CODES, RULES AND ORDINANCES.
3. SPRINKLER SYSTEM LAYOUT DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION. THEY SHALL INCLUDE BUT NOT LIMITED TO THE FLOW TEST DATA, BACKFLOW AND FLOW SWITCHES, RISER ASSEMBLY, DRAIN AND TEST ASSEMBLY, HEAD LOCATIONS, CUT LENGTHS AND HYDRAULIC CALCULATIONS.
4. THE SPRINKLER CONTRACTOR SHALL CONSIDER THE PROJECT AS ONE SET OF DOCUMENTS. THE GENERAL CONTRACTOR SHALL PROVIDE THE SPRINKLER CONTRACTOR A COMPLETE SET OF DOCUMENTS INCLUDING ALL TRADES PRIOR TO BIDDING AND CONSTRUCTION. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AS REQUIRED AMD WILL INFORM THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS ON THE DOCUMENTS PRIOR TO SUBMITTING FINAL BID AND COMMENCING ANY WORK. THE SPRINKLER CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER UPON REQUEST.
5. THE FIRE SPRINKLER CONTRACTOR SHALL BE HELD TO HAVE VERIFIED ALL EXISTING CONDITIONS, INCLUDING SITE VISITATION, AND REVIEW OF AS BUILT DOCUMENTATION AS APPLICABLE PRIOR TO BIDDING, ORDERING, FABRICATION, OR INSTALLATION OF ANY MATERIALS OR EQUIPMENT ON THIS PROJECT.
6. ALL WORK SHALL BE PERFORMED BY A LICENSED FIRE SPRINKLER CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.
7. REQUIRED INSURANCE SHALL BE PROVIDED BY THE FIRE SPRINKLER CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. FIRE SPRINKLER CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTS. FIRE SPRINKLER CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. FIRE SPRINKLER CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
9. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS AND ARE CONSIDERED TO BE ONE SET OF DOCUMENTS. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
10. FIRE SPRINKLER CONTRACTOR SHALL SUBMIT FOR APPROVAL A DIGITAL COPY OF THE MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT INCLUDED IN CONTRACT. ALL MATERIAL SHALL BE NEW OF U.S MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED TRADESMEN.
11. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
12. AS APPLICABLE THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND SUPPORTING FUNCTIONALITY OF FIRE SPRINKLER SYSTEMS IN UN-REMODELED AREAS DURING CONSTRUCTION AND INSTALLATION.

SPRINKLER LAYOUT DOCUMENTS

1. THE CONTRACTOR SHALL PROVIDE SYSTEM LAYOUT DOCUMENTS FOR A WET PIPE FIRE PROTECTION SYSTEM CONSISTENT WITH THE REQUIREMENTS OF NFPA 13.
2. THE DOCUMENTS SHALL INCLUDE HEAD LAYOUTS, PIPE CUT LENGTHS, HYDRAULIC CALCULATIONS, CATALOG INFORMATION ON STANDARD PRODUCTS, AND OTHER CONSTRUCTION DATA THAT PROVIDES DETAIL ON THE LOCATION OF RISERS, CROSS MAINS, BRANCH LINES, SPRINKLER HEADS, SIZING OF PIPE, AND HANGER LOCATIONS AND ALSO SERVES AS A GUIDE FOR FABRICATION AND INSTALLATION OF A FIRE PROTECTION SYSTEM.
3. THE HYDRAULIC CALCULATIONS SHALL BE COMPUTER GENERATED USING A SOFTWARE EQUAL TO "HYDRACAD " OR SIMILAR APPROVED SOFTWARE AND SHALL INCLUDE A SUMMARY SHEET, GRAPH SHEET, A WATER SUPPLY ANALYSIS, A NODE ANALYSIS AND DETAIL WORK SHEETS CONSISTENT WITH THE REQUIREMENTS OF NFPA 13.
4. IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO COORDINATE THE LOCATIONS OF SPRINKLER HEADS WITH REGARD TO ARCHITECTURAL FEATURES AND OTHER SIMILAR OBSTRUCTIONS.
5. SPRINKLER HEADS IN ACOUSTICAL CEILING TILE (ACT) SHALL BE LOCATED IN THE CENTER OF THE TILE.

FIRE SPRINKLER SCOPE OF WORK

1. THE FIRE SPRINKLER SCOPE OF WORK FOR THIS PROJECT CONSISTS OF RELOCATING EXISTING SPRINKLER HEADS AND ADD NEW SPRINKLER HEADS AS REQUIRED OFF OF EXISTING SYSTEM.
2. RECESSED HEADS SHALL BE USED FOR FINISHED CEILINGS, AND UPRIGHT HEADS FOR UNFINISHED CEILINGS.

ACCEPTANCE TEST CRITERION

1. THE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 AND NFPA-24 AS APPLICABLE. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION (FIRE DEPARTMENT) AND THE OWNER (OR OWNER'S REPRESENTATIVE) OF THE TIME AND DATE TESTING WILL BE PERFORMED AT LEAST 48 HOURS IN ADVANCE. THE FIRE PROTECTION ENGINEER SHALL PARTICIPATE IN INSPECTIONS AND THE FINAL ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEMS.
2. THE INSTALLING CONTRACTOR SHALL COMPLETE THE REQUIRED ACCEPTANCE TESTS. THE FOLLOWING CERTIFICATES SHALL BE COMPLETED WITH ALL APPLICABLE TEST RESULTS:
   - 2.1. NFPA 13, FIGURE 10.10.1, "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING."
   - 2.2. NFPA 13, FIGURE 25.1, "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING."
3. SEE NFPA 13, SYSTEM ACCEPTANCE, AND CHAPTER 10 SECTION 10.10, TESTING AND ACCEPTANCE FOR DETAILS ON APPLICABLE ITEMS.
4. WATER FLOW DETECTING DEVICES INCLUDING THE ASSOCIATED ALARM CIRCUITS SHALL BE FLOW TESTED THROUGH THE INSPECTOR'S TEST CONNECTION AND SHALL RESULT IN AN AUDIBLE ALARM ON THE PREMISES WITHIN 5 MINUTES AFTER SUCH FLOW BEGINS AND UNTIL SUCH FLOW STOPS.

STRUCTURAL SUPPORT AND OPENINGS

THE STRUCTURE OF THE BUILDING SHALL INCLUDE THE WEIGHT OF THE SPRINKLER SYSTEM. THIS SHALL INCLUDE A DEAD LOAD OF 5 TIMES THE WEIGHT OF WATER-FILLED PIPE PLUS A LIVE LOAD OF 250 LBS AT THE POINT OF HANGING AS PER NFPA 13 17.1.2. THE DESIGN OF THE REINFORCEMENT SHALL BE PREPARED BY A STRUCTURAL ENGINEER REGISTERED IN PUERTO RICO. THE REINFORCEMENT, IF REQUIRED, SHALL BE SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. THE STRUCTURAL DOCUMENTS, ALONG WITH THE FIRE SPRINKLER SHOP DRAWINGS, SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL ENGINEER.

ADDITIONAL INFORMATION

- A. POINT OF SERVICE - EXISTING
- B. APPLICABLE NFPA CODES AND STANDARDS - REFERENCE SHEET PL-001, APPLICABLE BUILDING CODES BLOCK.
- C. CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA - REFERENCE SHEET PL-101, OCCUPANCY CLASSIFICATIONS BLOCK.
- D. DESIGN APPROACH - REFERENCE SHEET PL-101, DESIGN APPROACH BLOCK.
- E. SITE WATER CHARACTERISTICS - EXISTING
- F. CONTRACTOR TO DOCUMENT EXISTING AND NEW WATER SUPPLY PIPING IN THE SCOPE OF WORK AREA.
- G. CONTRACTOR TO VERIFY AND DOCUMENT EXISTING SPRINKLER ZONES AND SMOKE COMPARTMENTS.
- H. CONTRACTOR TO ENSURE THAT NEW SPRINKLERS ARE CONNECTED TO THE CORRESPONDENT SPRINKLER ZONE.

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	HC	HANDICAP
ACW	AUTOMATIC CLOTHES WASHER	HFU	HOT WATER FIXTURE UNIT
AFF	ABOVE FINISHED FLOOR	HW	HOT WATER
AFG	ABOVE FINISHED GRADE	HWR	HOT WATER RECIRC.
CI	CAST IRON	IE	INVERT ELEVATION
CFU	COLD WATER FIXTURE UNIT	LAV	LAVATORY
CO	CLEANOUT	NTS	NOT TO SCALE
COND	CONDENSATE	OD	ROOF OVERFLOW DRAIN
CTG	CLEANOUT TO GRADE	RD	ROOF DRAIN
CM	COFFEE MAKER	RE	RELOCATE EXISTING
CW	COLD WATER	REF	REFERENCE
DFU	DRAINAGE FIXTURE UNIT	REF	REFRIGERATOR
DW	DISHWASHER	RO	REVERSE OSMOSIS
EFD	EMERGENCY FLOOR DRAIN	SK	SINK
EWC	ELECTRIC WATER COOLER	SH	SHOWER
EWH	ELECTRIC WATER HEATER	SST	STAINLESS STEEL
EX	EXISTING	TFU	TOTAL FIXTURE UNIT
FCO	FLOOR CLEAN OUT	TUB	BATH TUB
FD	FLOOR DRAIN	UR	URINAL
FF	FINISHED FLOOR	UC	UNDER COUNTER
FLR	FLOOR	VTR	VENT TO ROOF
GWH	GAS WATER HEATER	WC	WATER CLOSET
HB	HOSE BIBB	WCO	WALL CLEANOUT

NOTE: NOT ALL ABBREVIATIONS MAY APPLY TO PLANS

PLUMBING SYMBOL LEGEND

X"Ø SAN	SANITARY DRAIN		EXISTING PIPE
X"Ø VNT	SANITARY VENT		DEMOLISHED PIPE
X"Ø GW	GREASE WASTE DRAIN		WATER SUPPLY PIPE WITH CAPPED END
X"Ø STM	STORM WATER DRAIN		DOMESTIC WATER DOWN
X"Ø COND	CONDENSATE DRAIN		DOMESTIC WATER UP
X"Ø CW	COLD WATER SUPPLY PIPE		FULL-OPEN VALVE
X"Ø HW	HOT WATER SUPPLY PIPE		FULL-OPEN VALVE W/ ACCESS DOOR
X"Ø HWR	HOT WATER RECIRCULATION PIPE		CONNECT TO EXISTING AT THIS LOCATION
X"Ø HW 140"	140°F HOT WATER SUPPLY PIPE		POINT OF DEMO

NOTE: NOT ALL SYMBOLS MAY APPLY TO PLANS

APPLICABLE BUILDING CODES

INTERNATIONAL BUILDING CODE, (2021)
INTERNATIONAL PLUMBING CODE, (2021)
INTERNATIONAL FIRE CODE, (2021)
VA PLUMBING DESIGN MANUAL PG-18-10 (2023)
VA FIRE PROTECTION DESIGN MANUAL (2023)
NFPA13 (2022)

ADDITIONAL NOTES

MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES IN THEIR LATEST REVISIONS.
CONTRACTOR SHALL COORDINATE SPECIFIC REQUIREMENTS OF EQUIPMENT WITH MANUFACTURER SHOP DRAWINGS.
ALL EQUIPMENT SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.

GENERAL PLUMBING NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE CODES AS SHOWN.
2. THE PLUMBING CONTRACTOR SHALL BE HELD TO HAVE VERIFIED ALL EXISTING CONDITIONS, INCLUDING SITE VISITATION, AND REVIEW OF AS BUILT DOCUMENTATION AS APPLICABLE PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF ANY MATERIALS OR EQUIPMENT ON THIS PROJECT.
3. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACK FILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
5. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS, PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
6. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS AND ARE CONSIDERED TO BE ONE SET OF DOCUMENTS. BENDS OFFSETS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE AND FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AT NO ADDITIONAL COST. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
7. CONTRACTOR SHALL SUBMIT FOR APPROVAL ELECTRONIC PDF COPIES OF MANUFACTURER DRAWINGS FOR ALL PLUMBING FIXTURES AND EQUIPMENT INCLUDED IN CONTRACT. ALL MATERIAL SHALL BE NEW FROM A U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED TRADESMEN.
8. GENERAL CONTRACTOR SHALL CONSIDER THE PROJECT AS ONE SET OF DOCUMENTS. GENERAL CONTRACTOR SHALL PROVIDE AN ENTIRE SET OF DOCUMENTS SHOWING ALL TRADES TO EACH SUBCONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS TO INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONFLICTS ON THE DOCUMENTS PRIOR TO SUBMITTING FINAL BID AND COMMENCING ANY WORK. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER UPON REQUEST
9. THE GENERAL CONTRACTOR SHALL PROVIDE IN WRITING ON COMPANY LETTER HEAD ALL ITEMS VALUE ENGINEERED OR OMITTED FROM ENTIRE PROJECT. THIS DOCUMENT SHALL HAVE DETAILED DESCRIPTION AND TRANSPARENCY OF ALL ITEMS IN EACH DISCIPLINE AND TRADE. INFORMATION SHALL BE PROVIDED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO SUBMITTING FINAL BID. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER/OWNER UPON REQUEST.
10. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
11. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
12. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE INVERT ELEVATIONS OF EXISTING DRAINAGE PIPING AS REQUIRED TO ASSURE THAT CONNECTIONS TO EXISTING SYSTEMS CAN BE COMPLETED. THE CONTRACTOR SHALL SCOPE, X-RAY, AND TEST AS NECESSARY TO VERIFY EXISTING INVERT ELEVATIONS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER IN WRITING PRIOR TO COMMENCEMENT OF THE GROUND ROUGH.
13. WATER DISTRIBUTION PIPING SHALL BE TYPE EITHER "L" COPPER FOR NON CRITICAL WATER SYSTEMS. CRITICAL WATER DISTRIBUTION PIPING TO BE SCH 40 STAINLESS STEEL WITH BUTT-WELDED OR GROOVED FITTINGS.
14. UNLESS OTHERWISE INDICATED ON THE PLAN, THE SOIL, WASTE PIPING SHALL BE CAST IRON ABOVE AND BELOW SLAB.
15. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. ISOLATION VALVES LOCATED IN CEILING CAVITIES ABOVE HARD CEILINGS SHALL BE SUPPLIED WITH APPROVED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION. ALL VALVES TO BE LOCATED NO MORE THAN 24" ABOVE THE ACCESS PANEL.
16. FURNISH AND INSTALL APPROVED, ENGINEERED PISTON TYPE MECHANICAL WATER HAMMER ARRESTORS AT EACH PLUMBING FIXTURE OR FIXTURE GROUP WITH QUICK CLOSING VALVES, INSTALLATION OF THE ARRESTOR SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, AND SHALL BE IN COMPLIANCE WITH IBC-P 604.9 AND ASSE 1010. THE ARRESTOR SHALL BE LOCATED WITHIN THE EFFECTIVE RANGE OF THE QUICK CLOSING VALVE, WITH ACCESS UNLESS THE ARRESTOR IS DESIGNED FOR CONCEALED APPLICATION AND IS APPROVED BY AHJ.
17. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
18. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD.
19. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
20. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
21. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTERS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED. ALL VALVES AND WATER HAMMER ARRESTER TO BE LOCATED NO MORE THAN 24" ABOVE THE ACCESS PANEL..
22. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR ALL WALL CLEAN OUTS.
23. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OPERATOR.
24. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
25. REFER TO SPECIFICATION BOOK FOR PIPE INSULATION SPECIFICS.
26. ALL FLOOR DRAINS NOT OTHERWISE PRIMED WITH INDIRECT WASTE SHALL BE PRIMED FROM THE NEAREST DOMESTIC WATER FIXTURE. REFERENCE FLOOR DRAIN PRIMING DETAIL.
27. PLUMBING CONTRACTOR SHALL PROVIDE ENGINEER WITH AS-BUILT DRAWINGS UPON COMPLETION.
28. UNLESS OTHERWISE SPECIFIED, THE PLUMBING CONTRACTOR SHALL PROVIDE MOTOR STARTERS AS REQUIRED FOR ALL PLUMBING RELATED EQUIPMENT. THE STARTERS SHALL BE MATCHED TO THE EQUIPMENT AND THE SERVICE VOLTAGE. PHASE LOSS MONITORS/PROTECTION SHALL BE REQUIRED ALL THREE PHASE EQUIPMENT. COORDINATE PRIOR TO ORDERING/PURCHASING/INSTALLATION.
29. CONTRACTOR SHALL SUBMIT FOR APPROVAL (BEFORE ORDERING OR INSTALLING SUCH UNITS) TO THE MECHANICAL ENGINEER A TYPED LIST OF ALL BACKFLOW PREVENTERS TO BE USED FOR PROJECT.
30. REVERSE OSMOSIS SYSTEMS (RO SYSTEMS) SHALL BE PIPED WITH STAINLESS STEEL.
31. ALL PIPING TO BE TESTED IN ACCORDANCE WITH SECTION 312 OF THE INTERNATIONAL PLUMBING CODE.

PLUMBING SHEET INDEX

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS		
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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING COVER SHEET	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS	Project Number: 672-22-810
			Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201	Drawing Number: PL-001
		Issue Date: 04/22/2024 / Checked: RSM / Drawn: VMC	

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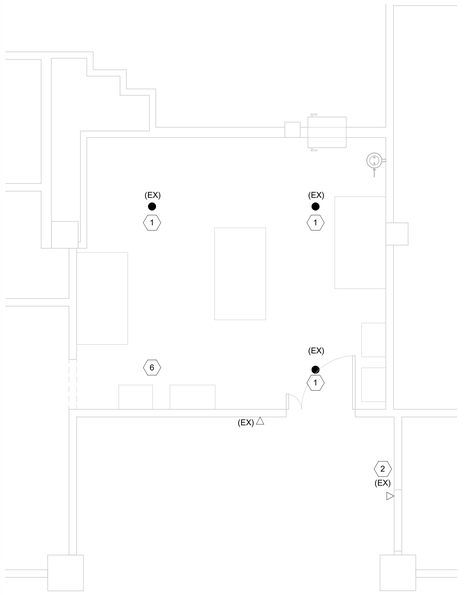
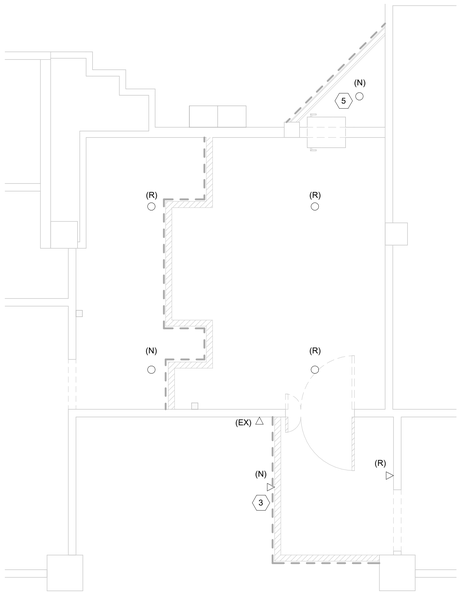


1 FIRE SPRINKLER FLOOR PLAN - EXISTING
1/4" = 1'-0"



2 FIRE SPRINKLER FLOOR PLAN - CONSTRUCTION PHASE
1/4" = 1'-0"

OCCUPANCY CLASSIFICATIONS

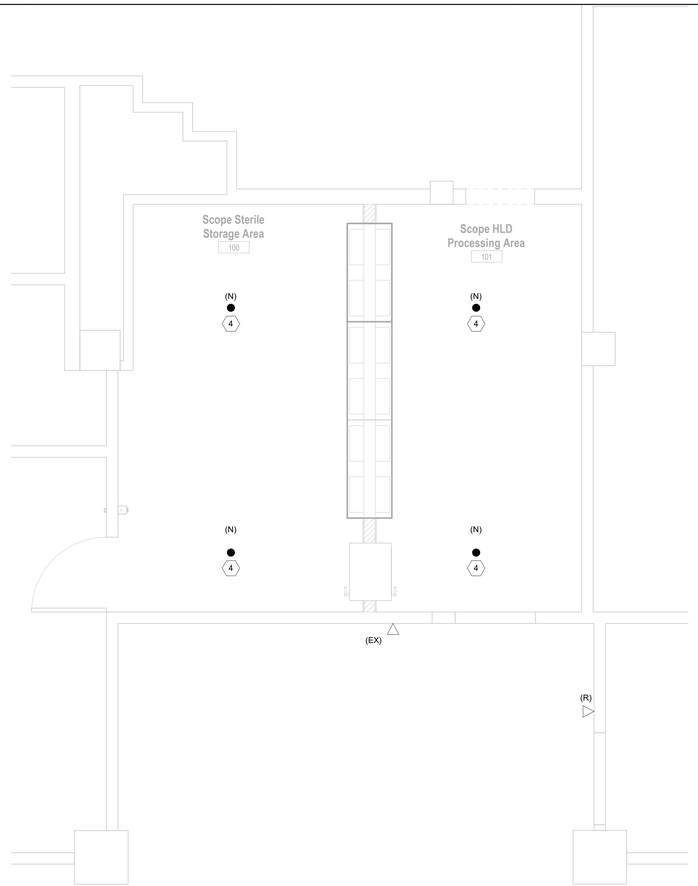
ORDINARY HAZARD GROUP 2 - LAB

DESIGN APPROACH

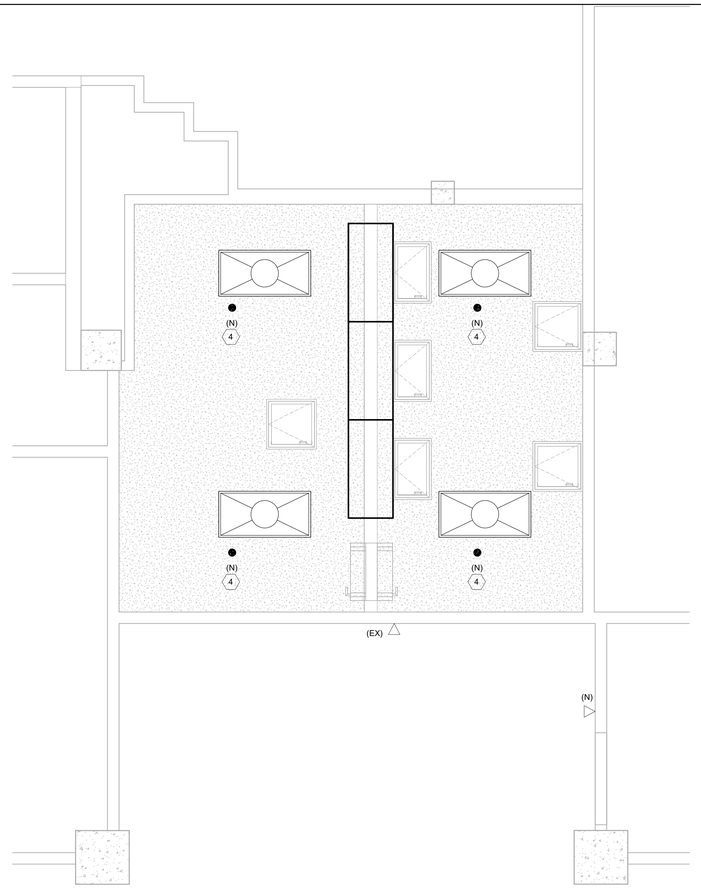
LAB
FIRE PROTECTION SHALL BE PROVIDED BY A WET PIPE AUTOMATIC SPRINKLER SYSTEM UTILIZING STEEL SUPPLY PIPING. PROVIDE PIPE DROPS OFF THE SUPPLY PIPING TO QUICK-RESPONSE SPRINKLER HEADS. DENSITY IS TO BE HYDRAULICALLY CALCULATED TO BE AT LEAST 0.20 GPM/SQ. FT., WITH A MAXIMUM SPACING OF 15 FT. AND A MAXIMUM PROTECTION AREA OF 130 SQUARE FEET PER HEAD. A DESIGN AREA REDUCTION MAY BE TAKEN PER NFPA-13, 2016 EDITION, SECTION 11.2.3.2.3. HEAD TEMPERATURE RATING IS TO BE ORDINARY (135 - 170 °F) AS DEFINED IN NFPA 13, 2016 EDITION, TABLE 6.2.5.1, "TEMPERATURE RATINGS, CLASSIFICATIONS, AND COLOR CODINGS."

NOTE: GENERAL CONTRACTOR TO LOCATE THE EXISTING SPRINKLER SYSTEM AND VERIFY IT CAN MEET THE REQUIREMENTS OF THE NEW SPRINKLER SYSTEM IN THE SCOPE OF WORK. GENERAL CONTRACTOR TO COORDINATE NEW HEAD LOCATIONS WITH ARCHITECT.

KEYNOTES	
1	EXISTING SPRINKLER HEAD TO BE UP TURNED DURING CONSTRUCTION PHASE IN SAME LOCATION.
2	EXISTING SRPINKLER HEAD TO BE RELOCATED DURING CONSTRUCTION PHASE AS SHOWN ON VIEW #2.
3	PROVIDE NEW TEMPORARY SPINKLER FOR CONSTRUCTION IF THE EXISTING HEAD IN THE AREA IS AFFECTED BY CONDITIONS DURING CONSTRUCTION. DEMOLISH ONCE CONSTRUCTION ENDS.
4	NEW PENDENT RECESSED SPRINKLER HEAD IN SAME LOCATION AS EXISTING CONDITIONS.
5	NEW TEMPORARY SPRINKLER FOR CONSTRUCTION PHASE. DEMOLISH ONCE CONSTRUCTION ENDS.
6	EXISTING SPRINKLER HEAD COVER EXISTING BUT NO SPRINKLER HEAD INSTALLED.



3 FIRE SPRINKLER FLOOR PLAN - FINAL
3/8" = 1'-0"



4 FIRE SPRINKLER RCP - FINAL
3/8" = 1'-0"

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

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FMS Project and Section

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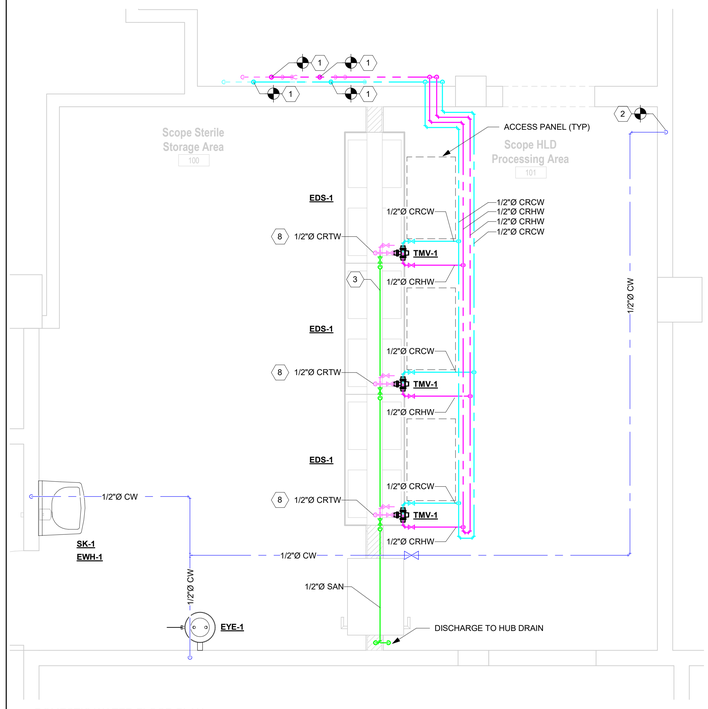
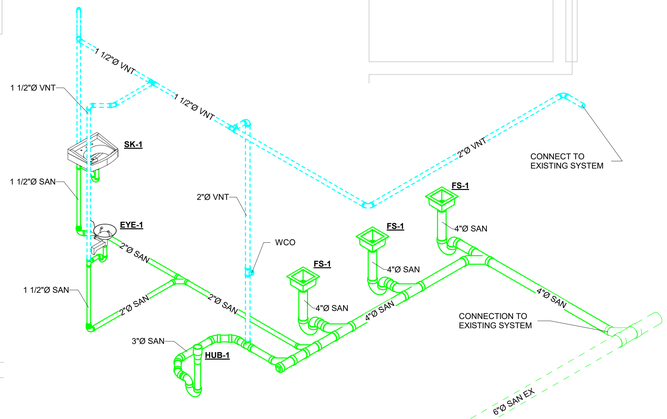
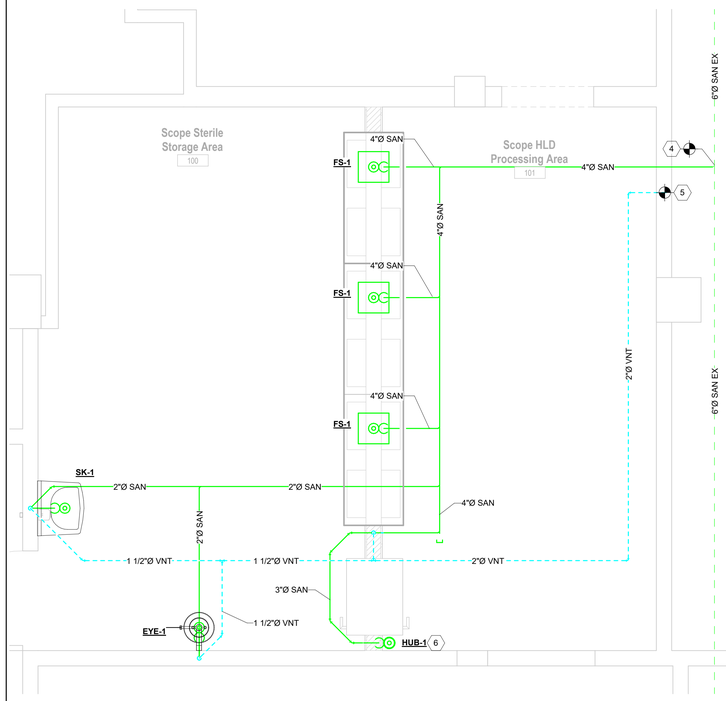


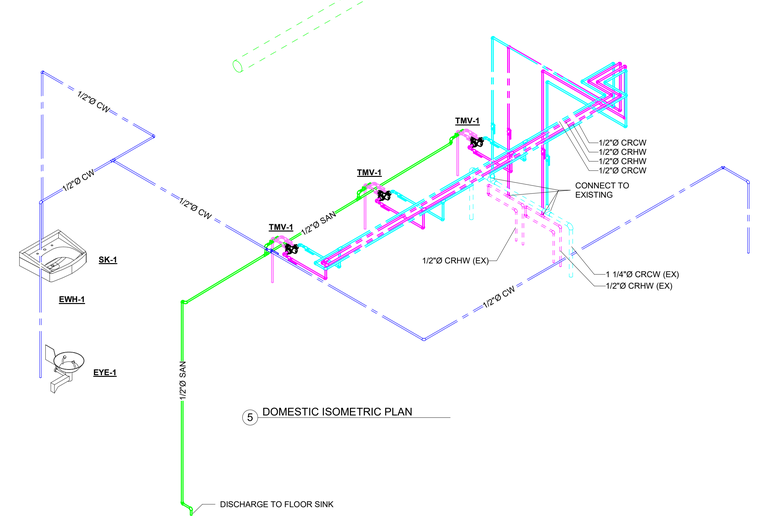
1 DOMESTIC WATER FLOOR PLAN
1/2" = 1'-0"



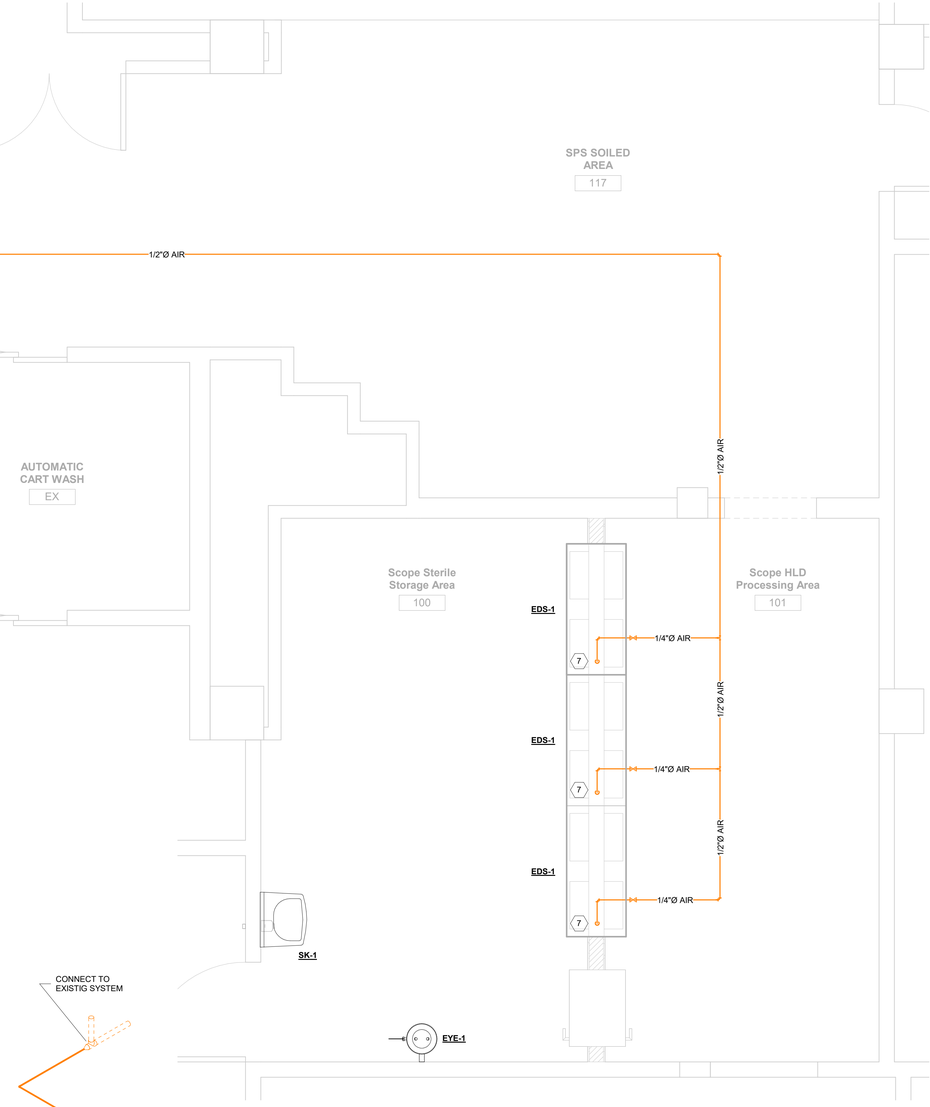
4 SANITARY ISOMETRIC PLAN



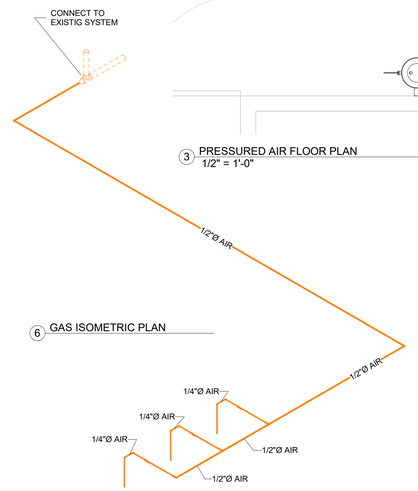
2 SANITARY FLOOR PLAN
1/2" = 1'-0"



5 DOMESTIC ISOMETRIC PLAN



3 PRESSURED AIR FLOOR PLAN
1/2" = 1'-0"



6 GAS ISOMETRIC PLAN

KEYNOTES	
1	CONNECT TO EXISTING CRITICAL WATER PIPING ALONG WALL, GC TO VERIFY EXISITNG PIPE LOCATIONS, PROVIDE ISOLATION VALVE NEAR CONNECTION POINT
2	CONNECT TO EXISTING DOMESTIC WATER COLD PIPE IN WALL FROM REMOVED EXISTING EYE WASH. GC TO FIELD VERIFY EXACT LOCATION.
3	DISCHARGE CONNECTION FOR THERMOSTATIC MIXING VALVE SETUP AND PURGE. ROUTE IN CEILING SPACE WITH 1/4 IN/FT SLOPE AND DISCHARGE TO HUB DRAIN.
4	CONNECT TO EXISTING SANITARY PIPING, GC TO VERIFY EXISITNG PIPE LOCATIONS
5	CONNECT TO EXISTING SANITARY VENT PIPING, GC TO VERIFY EXISITNG PIPE LOCATIONS
6	HUB DRAIN FOR THERMOSTATIC MIXING VALVE SETUP AND PURGE DISCHARGE.
7	ENSURE 90 PSI AIR PRESSURE IS PROVIDED FOR EQUIPMENT OPERATIONS.
8	THERMOSTATIC MIXING VALVE TO BE SET FOR AN OUTPUT TEMPERATURE OF 96F.

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS		
NO.	DESCRIPTION	DATE

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING PLANS	Phase: CD(100%CD-ISSUE FOR BID)	Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS	Project Number: 672-22-810
			Building Number: 1
Approved:	FULLY SPRINKLERED	Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201	Drawing Number: PL-201
		Issue Date: 04/22/2024 / Checked: RSM / Drawn: VMC	

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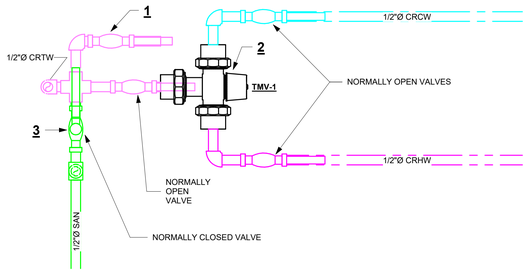
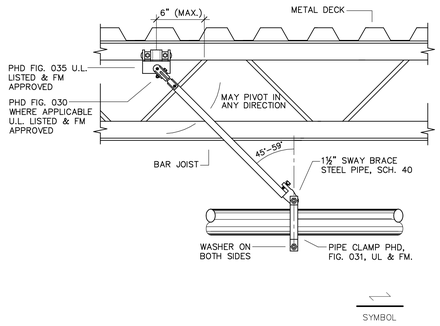
NOTES:

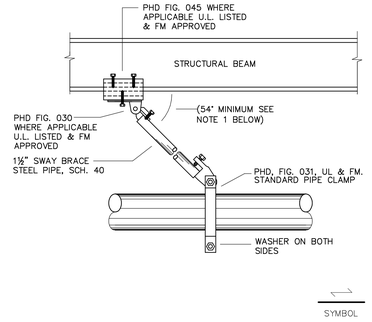
1. WATER QUALITY TEST PORT.
2. THERMOSTATIC MIXING VALVE TO BE SET FOR 98F WATER TEMPERATURE.
3. CONNECTION FOR TMV SETUP AND PURGE.



1 DETAIL - THERMOSTATIC MIXING VALVE
3" = 1'-0"



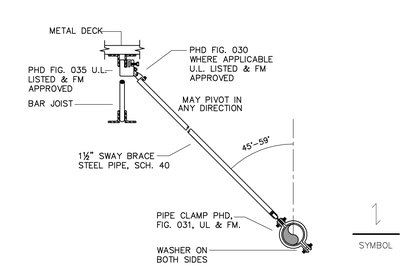
LONGITUDINAL EARTHQUAKE BRACING DETAIL
NOT TO SCALE



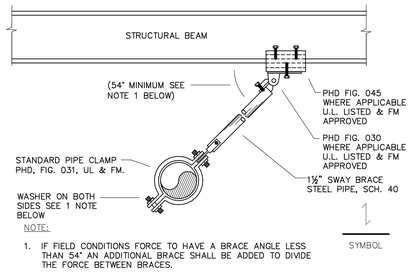
LONGITUDINAL EARTHQUAKE BRACING DETAIL
NOT TO SCALE

GENERAL NOTES:

1. ALL SPRINKLER WORK SHALL BE DONE AND TESTED IN ACCORDANCE WITH NFPA # 13, (LATEST EDITION), FACTORY MUTUAL, OSHA, OWNER UNDERWRITER, LOCAL BUILDING CODE AND ALL AUTHORITIES HAVING JURISDICTION.
2. ALL SPRINKLER PIPING SHALL BE CARBON STEEL, BLACK, SCHEDULE 40 ASTM A-53 WITH SCREWED CAST IRON 125 # FITTINGS OR GROOVE TYPE JOINT.
3. CONTRACT DOCUMENTS FOR THE PROJECT (DRAWINGS AND SPECIFICATIONS) CONSTITUTE THE GENERAL REQUIREMENTS FOR THE PROJECT FIRE PROTECTION SPRINKLER SYSTEM. SUCH CONTRACT DOCUMENTS SHOW THE GENERAL CONCEPT AND DESIGN CRITERIA OF THE DESIGN; IT SHALL BE THE FIRE PROTECTION CONTRACTOR/DESIGNER RESPONSIBILITY TO PREPARE A SYSTEM DESIGN AND FABRICATION DRAWINGS FOR APPROVAL IN COMPLIANCE WITH SUCH DOCUMENTS. IT IS NOT THE INTENT OF THE CONTRACT DOCUMENTS TO SUBSTITUTE AND/OR WAIVE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR/DESIGNER FOR THE SYSTEM DESIGN AS REQUIRED HEREIN. IT SHALL BE THE DESIGNER/FABRICATOR RESPONSIBILITY TO SUBMIT TO THE INSURANCE AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW AND APPROVAL. IT SHALL BE THE CONTRACTOR/DESIGNER RESPONSIBILITY TO COORDINATE THE ENTIRE SYSTEM DESIGN/INSTALLATION WITH ALL BUILDING STRUCTURES; DUCTS, DIFFUSERS AND FANS; PIPING AND PIPING APPURTENANCES; ELECTRICAL CONDUITS, LIGHT FIXTURES, SPEAKERS AND ALL ELECTRICAL DEVICES AND APPURTENANCES; GENERAL BUILDING COMPONENTS; ETC. THAT MAY AFFECT THE SPRINKLER SYSTEM DESIGN AND/OR INSTALLATION.
4. FLUSHING CONN. SHALL BE PROVIDED AT THE END OF EACH CROSS/FEED MAIN, CONSISTING OF A 4 IN LONG BY 2 IN DIAM. NIPPLE WITH SCREW CAP FITTING.
5. ALL MAIN (S) BRANCH LINES OUTLETS TO BE SHOP WELDED IN ACCORDANCE W/ NFPA 13. (LATEST EDITION.)
6. NEW SEISMIC BRACINGS SHALL BE PROVIDED TO EXISTING SYSTEM IF NOT PROVIDED @ SUCH LOCATION.
7. EARTHQUAKE BRACING CALCULATIONS SHALL BE BASED ON:
   - SEISMIC COEFFICIENT Cp=0.75
   - ZONE OF INFLUENCE METHOD



LATERAL EARTHQUAKE BRACING DETAIL
NOT TO SCALE



LATERAL EARTHQUAKE BRACING DETAIL
NOT TO SCALE

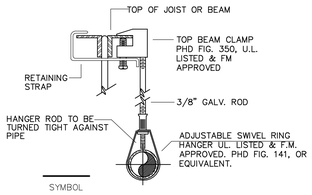
LEGEND:

NEW CROSS MAIN (30'-0" MAX. FOR 3" PIPE) LATERAL BRACING

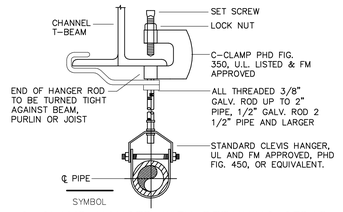
NEW CROSS MAIN (50'-0" MAX. FOR 3" PIPE) LONGITUDINAL BRACING

NEW PIPE HANGER

PIPE HANGER AND BRACING AS BASIS OF DESIGN SHOWN. PLEASE PROVIDE EQUAL OR EQUIVALENT.



TYPICAL BRANCH LINE HANGER DETAIL
NOT TO SCALE



C-CLAMP HANGER WITH RETAINING STRAP
NOT TO SCALE

APPENDIX C

PRE-SITE REQUIREMENTS CHECKLIST

INITIAL AND SIGN AT THE TIME OF PRE-SITE INSPECTION

Inspection Item	Description	Initials
Wall Preparation	Wall opening meets specification for the number of reprocessors	
	Facility connections are in the proper locations and are accessible	
	Openings in underside of the wall are the proper size and in the proper locations	
Water Supply	½" (13 mm) NPT female connection with shutoff valve and pressure gauge	
	Potable or RO water filtered to 1 micron	
	Pressure of 40 to 87 psi (3 to 6 bar) (dynamic pressure)	
	Minimum flow rate of 2.6 gal/min (10 l/min) (dynamic)	
	Supplied water temperature 95°F ± 4°F (35°C ± 2°C)	
	Water supply need dedicated drain for bypass valve	
Drain	Floor drain meets requirements and is installed in the proper location	
	Capable of draining 10.5 gal/min (40 l/min)	
Air Supply	1/4" (6 mm) NPT female connection with shutoff valve and pressure gauge	
	Pressure of 58 to 145 psi (4 to 10 bar)	
	The demand of compressed air is 1.1 scfm (32 l/min ANR)	
	Air dry and oil free per specifications	
	Filtered to 5 microns	
Electrical Supply	120 VAC ±10%, single phase, 60 Hz, 1200 Watts	
	GFI protected NEMA 5-15R receptacle	
Ventilation	Minimum of 10 room air exchanges per hour	
	4" (100 mm) round duct	
	A minimum of 25 cfm (12 l/s) at 0.25 inches (6 mm)-water (62 PA) static pressure at duct	
Network	RJ45 receptacle	
	Internet access	

Customer Site					
Customer Representative				Title	
Signature		Date		Email	

Serial #	
Serial #	
Serial #	
Serial #	
Serial #	
Serial #	

PLUMBING SCHEDULE

MARK	ITEM	MANUFACTURER	DESCRIPTION	RIM HEIGHT (AFF)	MOUNTING	TRIM / ACCESSORIES	NOTES
FS-1	FLOOR SINK	ZURN	Z1750ZM	FLUSH	FLOOR MOUNTED	12" X 12" X 6" DEEP, 16 GAGE, ALL TYPE 316 STAINLESS STEEL LIGHT-DUTY SANI-FLOR RECEPTOR WITH NON-TILT, LOOSE SET FULL GRATE WITH 1/2" SQUARE OPENINGS AND ANTI-SPLASH STAINLESS STEEL INTERIOR DOME STRAINER.	-
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFL1170 - 1/2"	-	-	SET THERMOSTATIC MIXING VALVE TO 95 DEG F.	-
NOTES:							

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS		
NO.	DESCRIPTION	DATE

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DETAILS AND SCHEDULES

Phase: CD(100%CD-ISSUE FOR BID)

Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS

Project Number: 672-22-810

Building Number: 1

Approved:

FULLY SPRINKLERED

Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201

Issue Date: 04/22/2024 | Checked: RSM | Drawn: VMC

Drawing Number: PL-501

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ELECTRICAL NOTES

1. THE CONTRACT DOCUMENTS CONSIST OF DRAWINGS, SPECIFICATIONS AND DESIGN INFORMATION PREPARED BY MULTIPLE DISCIPLINES AND MUST BE USED AS A WHOLE AND IN COORDINATION WITH EACH OTHER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY APPARENT DISCREPANCIES OR OMISSION OF INFORMATION NOT SHOWN ON THE ELECTRICAL DRAWINGS. SHOP DRAWINGS SHALL BE PROVIDED WHERE NECESSARY FOR COORDINATION. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ERRORS RESULTING FROM LACK OF COORDINATION OF DOCUMENTS.

2. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT REQUIREMENTS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THE CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, ASSUME THE MOST STRINGENT AND/OR COSTLY REQUIREMENT APPLIES.

3. ALL WORK SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER BY A LICENSED ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE, CLEAN, AND PROFESSIONAL JOB SITE THAT DOES NOT IMPEDE EGRESS PATHS OR IMPACT OTHER TENANTS. DISRUPTIONS TO POWER AFFECTING OTHER TENANTS OR AREAS OUTSIDE THE SCOPE OF WORK SHALL BE COORDINATED WITH THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF HIS WORK. WHEN THE WORK IS COMPLETE, ALL ELECTRICAL DEVICES AND WORK AREAS SHALL BE VACUUMED CLEAN. THE FINAL PRODUCT SHALL BE A FULLY FUNCTIONAL SYSTEM MEETING THE INTENT OF THE DRAWINGS/DOCUMENTS. WORKMANSHIP AND ALL MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR IN WRITING COMMENCING UPON ACCEPTANCE OF INSTALLATION BY OWNER.

4. UNLESS PROVIDED WITH DIMENSIONS OR NOTED OTHERWISE, ELECTRICAL PLANS ARE STRICTLY DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, MOUNTING HEIGHTS, ETC. EFFORT HAS BEEN MADE TO PROPERLY ACCOUNT FOR ALL SPACE REQUIREMENTS, CLEARANCES, ETC. BUT SITE CONDITIONS AND PRODUCTS SELECTED MAY VARY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN PROPER ARRANGEMENTS AND CLEARANCES. DRAWINGS SHALL NOT BE SCALED.

5. CONDUITS RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. ALL CONDUIT SHALL BE RUN CONCEALED, EXCEPT IN EQUIPMENT ROOMS AND WHERE APPROVED BY ARCHITECT. ANY EXPOSED CONDUITS IN FINISHED AREAS SHALL BE PAINTED TO MATCH SURROUNDING CONSTRUCTION. VERIFY PAINT COLOR WITH THE ARCHITECT.

6. COORDINATE WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS, AND OTHER STRUCTURAL FEATURES.

7. THE CONTRACTOR IS EXPECTED TO HAVE A FULL FUNCTIONAL KNOWLEDGE OF ELECTRICAL SYSTEMS AND WHETHER INDICATED ON THE DRAWINGS OR NOT SHALL PROVIDE THE CORRECT NUMBER OF WIRES, AT NO ADDITIONAL CHARGE, TO FACILITATE PROPER OPERATION OF ALL EQUIPMENT. QUANTITY OF WIRES WILL ONLY BE INDICATED WHERE NECESSARY FOR CLARIFICATION.

8. THE INSTALLATION SHALL BE IN COMPLIANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA), UNLESS INSTALLED FOR SPECIFIC USES EXEMPT FROM ADA OR IN AREAS NOT NORMALLY ACCESSED BY BUILDING OCCUPANTS.

9. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. PRIOR TO ORDERING ELECTRICAL EQUIPMENT SERVING MECHANICAL & PLUMBING EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE EQUIPMENT BEING ORDERED BY THE MECHANICAL OR PLUMBING CONTRACTORS AND PROVIDE WIRING, CONDUIT, AND OVERCURRENT PROTECTION MEETING THE REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING WITH THE MECHANICAL AND PLUMBING CONTRACTORS FOR PROVIDING ANY NECESSARY LINE AND LOW VOLTAGE WIRING. FINAL TERMINATION TO BE MADE BY THE MECHANICAL CONTRACTOR.

10. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW (UNLESS NOTED OTHERWISE) AND BEAR THE U.L. LISTING FOR THEIR INTENDED USE. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.

11. EVEN IF THE PLANS INDICATE, OUTLETS SHALL NOT BE INSTALLED PRECISELY BACK TO BACK ON COMMON WALLS. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING METHODS AND LOCATIONS. RECEPTACLES IN DEMISING WALLS OF MULTIPLE DWELLING UNITS SHALL NOT BE INSTALLED BACK TO BACK UNDER NO CIRCUMSTANCES.

12. JUNCTION AND PULL BOXES ARE ONLY INDICATED WHERE REQUIRED FOR LARGE SCALE COORDINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING JUNCTION AND PULL BOXES AS REQUIRED BY THE CODE AND PER A STANDARD INSTALLATION, AND SHALL INCLUDE THIS IN THEIR BID.

13. THE CONTRACTOR SHALL MAINTAIN THE FIRE RATING OF ALL FIRE-RATED PARTITIONS, AS INDICATED IN IEEE RED BOOK. IF A DEVICE WILL VOID THE FIRE RATING OF A WALL, IT SHALL BE INSTALLED IN AN ALTERNATE LOCATION PER THE ARCHITECT OR ENGINEER'S DIRECTION. ALL VOICE, DATA AND CONDUITS AND/OR CORE DRILLS PENETRATING FIRE RATED PARTITIONS SHALL BE FILLED WITH FIRE-SAFING MATERIAL OR UL APPROVED FIRE RATING DEVICE. THE FIRE RATING OF A PARTITION SHALL NEVER BE COMPROMISED.

14. THE CONTRACTOR SHALL MAINTAIN THE INSULATION RATING AND VAPOR BARRIERS ON ALL PERIMETER WALLS. IF A DEVICE WILL DAMAGE OR COMPROMISE THE VAPOR BARRIER OR INSULATION, IT SHALL BE INSTALLED IN AN ALTERNATE LOCATION PER THE ARCHITECT OR ENGINEER'S DIRECTION.

15. PRIOR TO PENETRATING STRUCTURE, THE CONTRACTOR SHALL X-RAY THE SLABS. CONCRETE CUTTING, CORE DRILLING, AND ANY OTHER ACTION THAT COULD AFFECT OTHER SPACES BY NOISE OR INTRUSION SHALL BE DONE AFTER HOURS. ALL SLAB/STRUCTURE PENETRATIONS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER FOR APPROVAL.

16. ALL EQUIPMENT REQUIRING ACCESS SUCH AS J-BOXES, PULL BOXES, TRANSFORMERS, DRIVERS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.

17. CABLE AND CONDUIT ROUTING SHALL BE DONE IN A NEAT AND ORDERLY FASHION. LINES SHALL BE RUN PARALLEL TO ALL BUILDING FEATURES, AND SHALL BE GROUPED TOGETHER TO CREATE AN AESTHETICALLY PLEASING AND EASY TO FOLLOW ROUTE. METAL CLAD CABLES SHALL BE PERMITTED TO BE BUNDLED BUT SHALL NOT EXCEED TEN IN QUANTITY. ROUTING SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.

18. CONDUITS SHALL BE RIGIDLY SUPPORTED TO THE BUILDING STRUCTURE AS REQUIRED BY PROJECT SPECIFICATIONS. ALL SUPPORT SPACINGS FOR ALL RACEWAY TYPES SHALL BE IN ACCORDANCE WITH THE NEC. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL BUILDING EXPANSION JOINTS OR WHERE NEEDED TO ALLOW FOR THERMAL EXPANSION.

19. CONDUIT SIZES INDICATED IN PANEL SCHEDULES AND ON THE SINGLE LINE ARE BASED ON TYPE THHN IN EMT. AS OTHER TYPES OF CONDUIT AND CONDUCTORS ARE PERMISSIBLE IN THIS PROJECT, THE CONTRACTOR SHALL ADJUST THE DIMENSION OF THE CONDUIT TO COMPLY WITH CHAPTER 9, TABLE 1 IN THE NEC. ADJUSTMENTS TO THE CONDUIT SIZE SHALL BE PART OF THE BID AND SHALL BE AT NO ADDITIONAL EXPENSE TO THE OWNER.

20. WIRE SIZES INDICATED ARE BASED UPON DIRECT ORTHOGONAL PATHS TO THE PANELBOARD. TOTAL VOLTAGE DROP BETWEEN FEEDER AND BRANCH CIRCUIT SHALL NOT EXCEED 5%. IF FIELD CONDITIONS DO NOT ALLOW THESE PATHS OR IF THE CONTRACTOR RUNS ADDITIONAL LENGTHS, THEY SHALL BE RESPONSIBLE FOR INCREASING WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP AT NO ADDITIONAL COST. WIRING SMALLER THAN #12 AWG SHALL NOT BE USED FOR ANY INSTALLATIONS.

21. THE CONTRACTOR SHALL CIRCUIT PANELBOARDS EXACTLY AS INDICATED IN THE PANEL SCHEDULES. IF ANY DEVIATIONS ARE NECESSARY, THE ENGINEER SHALL BE NOTIFIED. TYPED DIRECTORY CARDS SHALL BE PROVIDED AT EACH PANELBOARD INDICATING LOAD SERVED AND FINAL ROOM NUMBERS PER THE NEC. WHEN EXISTING DIRECTORIES ARE REPLACED FOR RENOVATION WORK, EXISTING LOAD INFORMATION SHALL BE DIRECTLY TRANSFERRED TO THE NEW DIRECTORY CARDS.

22. WHEN A RETURN AIR PLENUM IS UTILIZED, ALL CABLING AND CONDUIT SHALL BE PLENUM RATED OR IN PLENUM RATED CONDUIT. THIS INCLUDES TELEPHONE, DATA, CONTROL CABLES, ETC. AND RESTRICTS THE USE OF PVC.

23. THE CONTRACTOR SHALL PROVIDE THE PROPER FIXTURE TYPE FOR THE CEILING OR WALL TYPE WHICH THE FIXTURE IS TO BE INSTALLED IN INCLUDING TRIM, MOUNTING ACCESSORIES, ETC. REGARDLESS OF THE MODEL NUMBERS IN THE LIGHT FIXTURE SCHEDULE, THE CORRECT MOUNTING TYPE SHALL BE PROVIDED. THE CONTRACTOR SHALL REFER TO INTERIOR DESIGNER, ARCHITECTURAL, LANDSCAPE, OR OTHER CONSULTANT PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS; WHERE THERE IS A DISCREPANCY BETWEEN ELECTRICAL PLANS AND OTHER OCNSULTANT PLANS, THE OTHER CONSULTANT PLANS SHALL TAKE PRIORITY EXCEPT FOR VOLTAGE AND WATTAGE OF FIXTURES. FIXTURE TYPES IN THE LIGHT FIXTURE SCHEDULE ARE TO ESTABLISH A TYPE, NOT A METHOD OF MOUNTING. LIGHT FIXTURES LOCATED IN A WET OR DAMP LOCATION SHALL BE LISED FOR SAID USED. LIGHT FIXTURES INSTALLED IN AREAS HAVING EXPOSED FOOD OR FOOD PREPARATION AREAS OR KITCHENS SHALL BE PROPERLY LENSED AND HAVE SHATTER PROOF LAMPS.

24. ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL SYSTEM BY SUPPORT WIRES, INDEPENDENT OF CEILING GRID SYSTEMS. TROFFER TYPE FIXTURES SHALL BE SUPPORTED BY WIRES AT ALL FOUR CORNERS. RECESSED DOWNLIGHTS SHALL BE SUPPORTED VIA HANGER BARS SUPPORTED BY WIRES AT ALL FOUR CORNERS. SUPPORT MEANS SHALL BE IN ACCORDANCE WITH LOCAL SEISMIC REQUIREMENTS.

25. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF AN ELECTRICALLY CONTINUOUS METALLIC CONDUIT SYSTEM TOGETHER WITH INSULATED EQUIPMENT GROUNDING CONDUCTORS. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR OR GROUND ELECTRIDE SIZED IN ACCORDANCE WITH THE NEC. USING METALLIC CONDUIT AS THE ONLY EQUIPMENT GROUNDING CONDUCTOR IS NOT ALLOWED.

26. FLOOR OUTLETS SHALL BE LISTED FOR INSTALLATION IN THE INSTALLED FLOOR TYPE. THEY SHALL MEET UL REQUIREMENTS FOR SCRUB WATER, DIRT, AND DEBRIS EXCLUSION TESTS.

27. WITHIN 90 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL CONDITIONS SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION. ADDITIONALLY, AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER INCLUDING THE FOLLOWING: SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, OPERATION MANUALS AND MAINTENANCE MANUAL FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE INCLUDING CLEARLY IDENTIFIED ROUTINE MAINTENANCE ACTIONS, AND NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

28. IN ACCORDANCE WITH FLORIDA ENERGY CONSERVATION CODE C408.1.1 - THE BUILDING OPERATIONS AND MAINTENANCE DOCUMENTS SHALL BE PROVIDED TO THE OWNER AND SHALL CONSIST OF MANUFACTURERS INFORMATION, SPECIFICATION, AND RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVES, AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING EQUIPMENT AND SYSTEMS ARE INTENTED TO BE INSTALLED, MAINTAINED AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIPMENT AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY ACCESSIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.

29. WITHIN 90 DAYS AFTER THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY, A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING: (1) RESULTS OF FUNCTIONAL PERFORMANCE TEST. (2) DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED. (FLORIDA ENERGY CONSERVATION CODE C408.3.2.3).

ELECTRICAL SYMBOL LEGEND

- 20 AMP SIMPLEX RECEPTACLE.
- 20 AMP DUPLEX RECEPTACLE.
- 20 AMP QUADRUPLEX RECEPTACLE.
- RECEPTACLE SUBSCRIPT DEFINITIONS:
  a: GFI, WEATHERPROOF (WP), WEATHER RESISTANT (WR), WHILE IN USE.
  b: GFI, ABOVE COUNTER.
  c: GFI, ABOVE COUNTER, WITH (1) TYPE A AND (1) TYPE C USB PORTS.
  d: ABOVE COUNTER.
- 20 AMP DUPLEX RECEPTACLE, CRITICAL BRANCH OF ESSENTIAL SYSTEMS.
- 20 AMP DUPLEX RECEPTACLE, TOP HALF SWITCHED.
- 20 AMP QUADRUPLEX RECEPTACLE, ONE DUPLEX CONNECTED TO NORMAL CIRCUIT AND ONE DUPLEX CONNECTED TO EMERGENCY GENERATOR. SUBSCRIPT DEFINITIONS:
  a: GFI, ABOVE COUNTER.
  b: GFI, ABOVE COUNTER, WITH (1) TYPE A AND (1) TYPE C USB PORTS FOR NORMAL RECEPTACLE.
  c: GFI, WITH (1) TYPE A AND (1) TYPE C USB PORTS FOR NORMAL RECEPTACLE.
- 20 AMP DUPLEX RECEPTACLE, WITH SELF-TESTING GROUND FAULT CIRCUIT INTERRUPTER.
- CEILING MOUNTED HORN/STROBE NOTIFICATION DEVICE WITH 75 CANDELA STOBE.
- SINGLE POLE, 20 AMP, SWITCH.
- 3-WAY, 20 AMP, SWITCH.
- CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH.

NOTE: NOT ALL SYMBOLS MAY APPLY TO PLANS

ELECTRICAL ABBREVIATIONS

A	- AMPERE	MCA	- MINIMUM CIRCUIT AMPACITY
AC	- ALTERNATING CURRENT	MCB	- MAIN CIRCUIT BREAKER
AF	- AMP FRAME	MCC	- MOTOR CONTROL CENTER
AFF	- ABOVE FINISHED FLOOR	MFR	- MANUFACTURER
AHJ	- AUTHORITY HAVING JURISDICTION	+, MH	- MOUNTING HEIGHT
AL	- ALUMINUM	MLO	- MAIN LUGS ONLY
ATS	- AUTOMATIC TRANSFER SWITCH	MOP, MOCP	- MAXIMUM OVERCURRENT PROTECTION
AIC	- AMPS INTERRUPTING CAPACITY	MS, MSB	- MAIN SWITCHBOARD
BRKR	- BREAKER	MTS	- MANUAL TRANSFER SWITCH
C or COND	- CONDUIT	MW	- MICROWAVE
CD	- CANDELA	NEC	- NATIONAL ELECTRICAL CODE
CKT	- CIRCUIT	(N)	- NEW
CT	- CURRENT TRANSFORMER	NA	- NOT APPLICABLE
CU	- COPPER	NC	- NORMALLY CLOSED
DN	- DOWN	NF	- NON-FUSED
DW	- DISHWASHER	NIC	- NOT IN CONTRACT
DWG	- DRAWING	NO	- NORMALLY OPEN
DC	- DIRECT CURRENT	OCPD	- OVERCURRENT PROTECTION DEVICE
(E) or EXIST	- EXISTING	P	- POLE
E.C	- ELECTRICAL CONTRACTOR	PH OR Ø	- PHASE
ELEV	- ELEVATOR	NEMA	- NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
EMER	- EMERGENCY		
EMT	- ELECTRIC METALLIC TUBING	PB	- PULL BOX
EUH	- ELECTRIC UNIT HEATER	PC	- PHOTOCELL
EWC	- ELECTRIC WATER COOLER	PNL	- PANELBOARD
EWH	- ELECTRICAL WATER HEATER	(R)	- RELOCATED
F	- FUSE	R	- RANGE OVEN
FA	- FIRE ALARM	RECEPT	- RECEPTACLE
FCA	- FAULT CURRENT AVAILABLE	REF	- REFRIGERATOR
FCR	- FAULT CURRENT RATING	RM	- ROOM
G, GND	- GROUND	SPD	- SURGE PROTECTIVE DEVICE
GD	- GARBAGE DISPOSAL	THD	- TOTAL HARMONIC DISTORTION
GFI/GFCI	- GROUND FAULT CIRCUIT INTERRUPTER	TVSS	- TRANSIENT VOLTAGE SURGE SUPPRESSION
GFEP	- GROUND FAULT EQUIPMENT PROTECTION	TYP	- TYPICAL
HZ	- HERTZ	UL	- UNDERWRITERS LABORATORIES
HP	- HORSEPOWER	UON	- UNLESS OTHERWISE NOTED
IG	- ISOLATED GROUND	UPS	- UNINTERRUPTIBLE POWER SUPPLY
J	- JUNCTION BOX	V	- VOLT
KVA	- KILOVOLT-AMPERE	VFD	- VARIABLE FREQUENCY DRIVE
KW	- KILOWATT	W	- WATT
LTG	- LIGHTING	WP	- WEATHERPROOF
M	- METER	XFMR	- TRANSFORMER

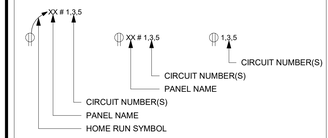
ELECTRICAL SHEET INDEX

LOW VOLTAGE LEGEND

- DATA OUTLET WITH 1" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING UNLESS OTHERWISE NOTED.
- DATA OUTLET FLOOR RECESS WITH 1" CONDUIT STUBBED UP TO NEAREST WALL UNLESS OTHERWISE NOTED.
- (S) CEILING-MOUNTED SPEAKER - IN AREAS OF INACCESSIBLE CEILING, PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING.
- (WAP) CEILING-MOUNTED WIRELESS ACCESS POINT - IN AREAS OF INACCESSIBLE CEILING, PROVIDE JUNCTION. AND 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING.
- TBB TELECOM PLYWOOD BACKBOARD. SIZE AS SHOWN ON PLANS.
- CR CARD READER WITH 1" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING UNLESS OTHERWISE NOTED.
- PB PUSH TO EXIT BUTTON WITH 1" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING UNLESS OTHERWISE NOTED.

NOTE: NOT ALL SYMBOLS MAY APPLY TO PLANS

CIRCUITING LEGEND

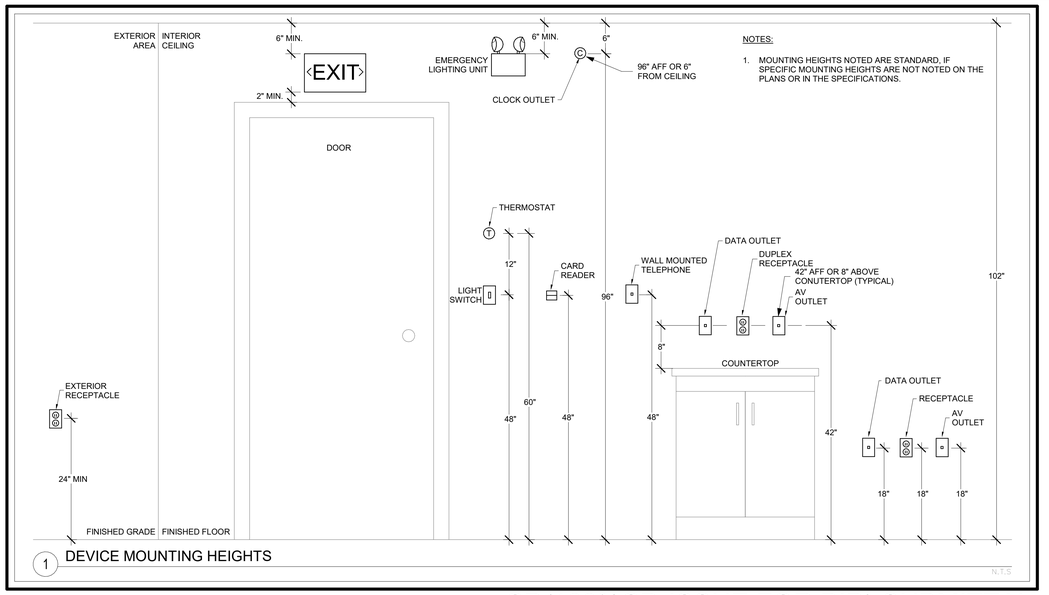


APPLICABLE BUILDING CODES

UNIFORM FEDERAL ACCESSIBILITY STANDARDS, LATEST EDITION.
INTERNATIONAL BUILDING CODE 2021.
VA FIRE PROTECTION DESIGN MANUAL 2011 EDITION.
NFPA 70, NATIONAL ELECTRICAL CODE 2020 EDITION.
NFPA 101, LIFE SAFETY CODE 2019 EDITION.

ELECTRICAL LEGEND

- NEW WORK.
- EXISTING TO BE REMOVED (DEMO).
- EXISTING TO REMAIN.



1 DEVICE MOUNTING HEIGHTS

N.T.S

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS		
NO.	DESCRIPTION	DATE

CONSULTANT

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL COVER SHEET

Phase: CD(100%CD-ISSUE FOR BID)

Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS

Project Number: 672-22-810

Building Number: 1

Approved:

FULLY SPRINKLERED

Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201

Issue Date: 04/22/2024 | Checked: RGD | Drawn: CDH

Drawing Number: E-001

4/22/2024 11:15:01 AM

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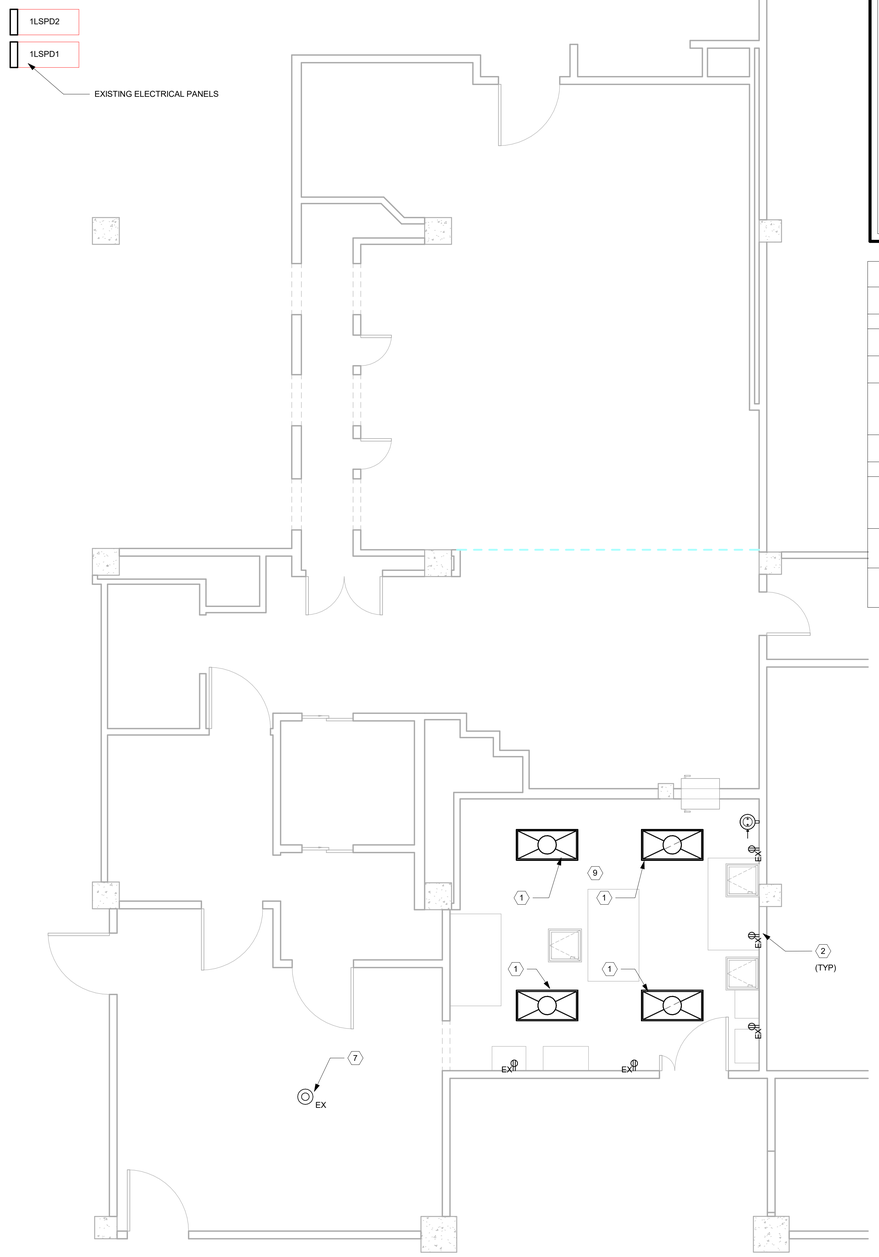
DEMOLITION NOTES

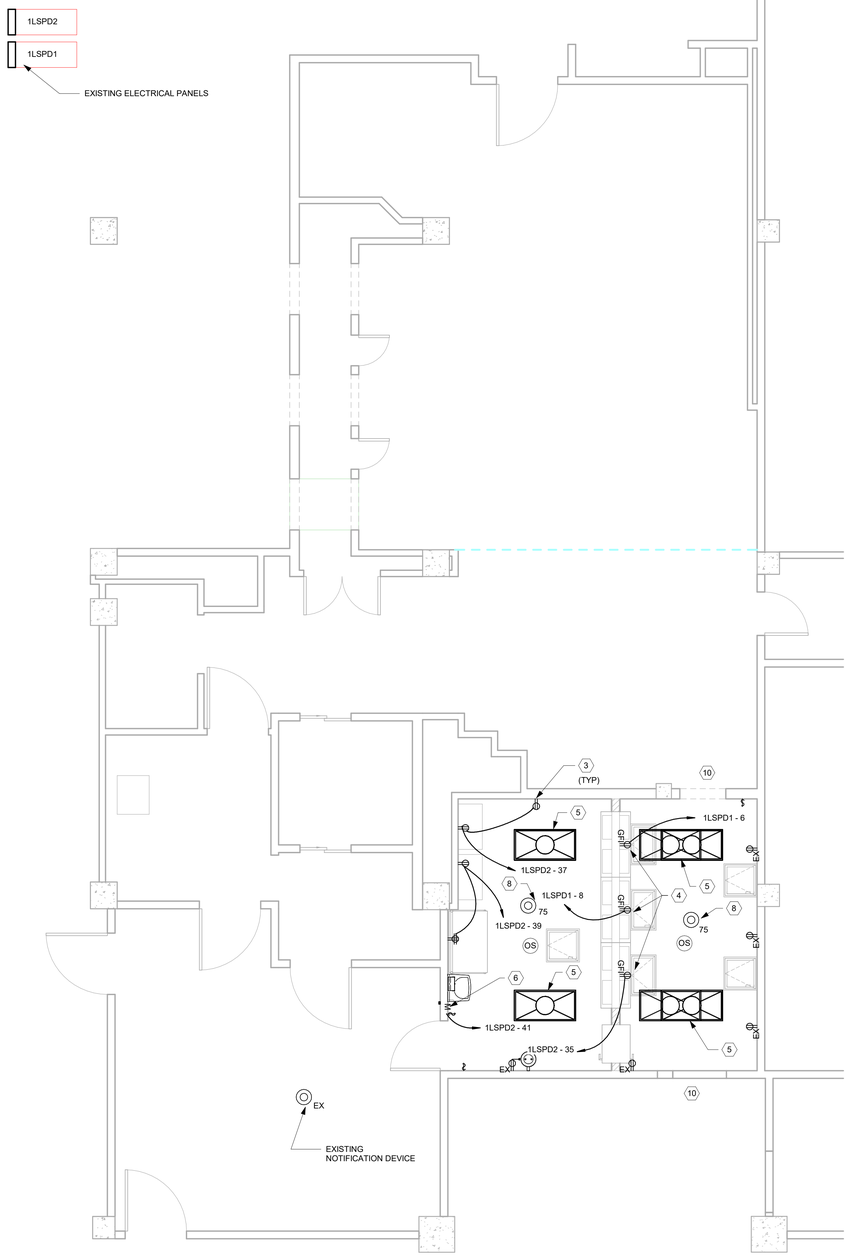
1. THE CONTRACTOR SHALL REMOVE ALL UNUSED AND ABANDONED WIRING AND CABLING FROM THE CEILING PLENUM THAT IS NOT LABELED FOR FUTURE USE, AS REQUIRED BY THE NEC. THIS SHALL INCLUDE BUT IS NOT LIMITED TO FIRE ALARM, POWER, SECURITY, CONTROLS, DATA, TELEPHONE, A/V, ETC.
2. CIRCUITS MADE SPARE SHALL BE UPDATED ON PANEL SCHEDULES. DIRECTORY CARDS SHALL BE REPLACED WITH NEW TYPED DIRECTORIES, INCLUDING ALL NEW LOADS IN ADDITION TO SPARES. HAND-MARKED NOTES WILL NOT BE ACCEPTED.
3. CARE SHALL BE TAKEN TO RELOCATE ALL EXISTING EQUIPMENT THAT IS BEING MOVED BUT REMAINING AFTER COMPLETION OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO KEEP ALL EXISTING TO REMAIN OR RELOCATED EQUIPMENT AT THE SAME LEVEL OF FUNCTIONALITY FROM THE ACCEPTANCE OF THE CONTRACT TO FINAL COMPLETION. ANY DAMAGE OR LOSS OF FUNCTIONALITY SHALL BE REMEDIED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
4. EQUIPMENT INDICATED TO BE REMOVED AND NOT RE-USED SHALL REMAIN THE PROPERTY OF THE OWNER AND RETURNED OR STORED AS DIRECTED.
5. CONDUITS AND RACEWAY SYSTEMS MAY BE ABANDONED WHERE CONCEALED HOWEVER SHALL BE REMOVED WHERE EXPOSED. REMOVED OUTLETS SHALL BE PROVIDED WITH BLANK COVERS, COLOR PER THE ARCHITECTS DIRECTION.
6. EXISTING RACEWAYS AND WIRING ARE ALLOWED TO BE RE-USED PROVIDED THEY MEET THE SPECIFICATIONS FOR THE NEW SYSTEM(S).
7. ALL OUTAGES SHALL BE COORDINATED WITH THE OWNER. THE CONTRACTOR SHALL PLAN AHEAD TO MINIMIZE ALL OUTAGES.
8. CIRCUITS SHALL STAY FUNCTIONAL WHERE DEVICES/FIXTURES ARE BEING DEMOLISHED THAT SHARE A COMMON CIRCUIT WITH DEVICES/FIXTURES THAT ARE TO REMAIN. WIRING SHALL BE REMOVED AS FAR AS POSSIBLE WHILE MAINTAINING EXISTING TO REMAIN OPERATION.
9. THE CONTRACTORS SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT NOT REUSED OF NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.

KEYNOTE LEGEND

1	REMOVE EXISTING LIGHT FIXTURE AND MAKE SAFE EXISTING LIGHTING CIRCUIT FOR RE-USE IN NEW WORK.
2	EXISTING RECEPTACLES TO REMAIN.
3	ALL NEW RECEPTACLES ARE TO BE FLUSH MOUNTED INTO THE EXISTING WALLS.
4	PROVIDE DEDICATE GFCI RECEPTACLE OUTLET IN ACCESS PANEL LOCATED ABOVE EQUIPMENT. COORDINATE WITH ARCHITECTURAL.
5	PROVIDE 2 X 4 LIGHT FIXTURE BY FAIL SAFE CAT.# BAA-FSP-24-47-40-CA08/DFCL-2448W-U OR EQUAL. CONNECT TO EXISTING LIGHTING CIRCUIT VIA NEW CEILING MOUNTED OCCUPANCY SENSORS AND WALL SWITCH.
6	PROVIDE 30AMP SINGLE POLE SWITCH UNDER SINK WITH WEATHERPROOF COVER AND PROVIDE FINAL CONNECTION TO INSTAHEAT WATER HEATER.
7	EXISTING CEILING MOUNTED HORN/STROBE NOTIFICATION DEVICE TO REMAIN.
8	PROVIDE NEW CEILING MOUNTED HORN/STROBE NOTIFICATION DEVICES TO MATCH EXISTING. CONNECT TO EXISTING NOTIFICATION CIRCUIT USED BY INDICATED EXISTING DEVICE. VERIFY CIRCUIT AND BATTERY CAPACITY IN EXISTING FIRE ALARM PANEL.
9	THERE ARE NO EXISTING FIRE ALARM NOTIFICATION DEVICES LOCATED IN THE EXISTING AREA OF CONSTRUCTION. THE AREA OF CONSTRUCTION IS SPRINKLED BY THE EXISTING SPRINKLER SYSTEM.
10	PROVIDE ANY TEMPORARY FIRE ALARM NOTIFICATION DEVICES REQUIRED DURING CONSTRUCTION IF ANY EXISTING DEVICES ARE BLOCKED OR REMOVED BY TEMPORARY WALLS OR BARRIERS.



1 ELECTRIAL DEMOLITION FLOOR PLAN
1/4" = 1'-0"



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

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS		
NO.	DESCRIPTION	DATE

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FMS Project and Section

VA U.S. Department of Veterans Affairs

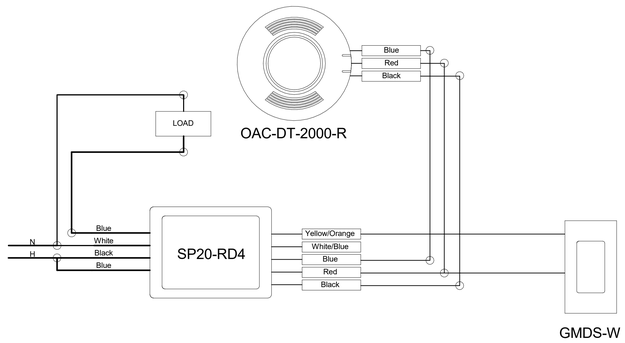
Drawing Title: ELECTRICAL FLOOR PLANS	Phase: CD(100%CD-ISSUE FOR BID)
Approved:	FULLY SPRINKLERED

Project Title	VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS
Project Number	672-22-810
Building Number	1
Location	10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201
Drawing Number	EP-101
Issue Date	04/22/2024
Checked	MDB
Drawn	CDH

4/22/2024 11:15:02 AM

VA FORM 08 - 6231

OAC-DT-1000-R + SP20-RD4 + GMDS-W



1 OCCUPANCY SENSOR DETAIL
3/64" = 1'-0"

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS		
NO.	DESCRIPTION	DATE

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS

Phase: CD(100%CD-ISSUE FOR BID)

Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS

Project Number: 672-22-810

Building Number: 1

Approved:

FULLY SPRINKLERED

Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201

Issue Date: 04/22/2024

Checked: Checker

Drawn: Author

Drawing Number: E-501

4/22/2024 11:15:02 AM

VA FORM 08 - 6231

BRANCH PANEL: 1LSPD1

Location:
Fed From:
Mounting: RECESSED

Volts: 120/208 V
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Bus: 500 A
M.L.O. / M.C.B.: MCB
Feed Thru Lugs:

CKT	Circuit Description	WIRE	COND	BKR	P	A		B		C		P	BKR	COND	WIRE	Circuit Description	CKT
1	DECO DENTAL WASHER	--	--	20 A	1	0.00	0.00					2	30 A	--	--	RINSE DRYER 2	2
3	SPARE	--	--	20 A	1			0.00	0.00			--	--	--	--	--	4
5	RINSE DRYER 1	--	--	30 A	2					0.00	0.80	1	20 A	3/4"	2-#12 1-#12G	PASS THUR*	6
7	--	--	--	--	--	0.00	0.80					1	20 A	3/4"	2-#12 1-#12G	PASS THRU*	8
9	ULTRA SONIC 1	--	--	20 A	2			0.00	0.00			2	60 A	--	--	WI	10
11	--	--	--	--	--					0.00	0.00	--	--	--	--	--	12
13	STERRAD STERILIZER 4	--	--	30 A	3	0.00	0.00					3	30 A	--	--	WASHER STERILIZER	14
15	--	--	--	--	--			0.00	0.00			--	--	--	--	--	16
17	--	--	--	--	--					0.00	0.00	--	--	--	--	--	18
19	SPACE	--	--	--	1	--	0.00					3	30 A	--	--	STERRAD STERILIXER 8	20
21	STERRADNX 9	--	--	20 A	1			0.00	0.00			--	--	--	--	--	22
23	AUTOCLAVE	--	--	20 A	1					0.00	0.00	--	--	--	--	--	24
25	ULTRA SONIC 2	--	--	20 A	2	0.00	1.00					3	100 A			1LSPD2	26
27	--	--	--	--	--			0.00	0.86			--	--	--	--	--	28
29	AUTOCLAVE	--	--	20 A	1					0.00	3.80	--	--	--	--	--	30
31	STERRANX 10	--	--	20 A	1	0.00											32
33	EF	--	--	20 A	2			0.00									34
35	--	--	--	--	--					0.00							36
					Total Load:	1.80 kVA		0.86 kVA		4.60 kVA							
					Total Amps:	16 A		7 A		40 A							

Load Classification	Connected Load (kVA)	Demand Factor	Estimated Demand (kVA)	Panel Totals	
Lighting	3.00	100.00%	3.00	**Heat or Cool Dominant:**	Cooling
Receptacle	4.26	100.00%	4.26	**Total Connected Load (kVA):**	7.26
				Total Estimated Demand (kVA):	7.26
				Total Connected Current:	20 A
				Total Estimated Demand Current:	7.26

Note: * INDICATES EXISTING CIRCUIT BREAKER AND NEW INDICATED LOAD. TOTAL CONNECTED CURRENT IS THE ADDITIONA LOAD ADDED TO THE PANEL.

BRANCH PANEL: 1LSPD2

Location:
Fed From: 1LSPD1
Mounting: RECESSED

Volts: 120/208 V
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Bus: 100 A
M.L.O. / M.C.B.: MLO
Feed Thru Lugs:

CKT	Circuit Description	WIRE	COND	BKR	P	A		B		C		P	BKR	COND	WIRE	Circuit Description	CKT
1	DECO WOMEN LIGHTS	--	--	20 A	1	0.00	0.00					1	20 A	--	--	PRE SPD CHIEF RECPT	2
3	DECO MENS LIGHTS	--	--	20 A	1			0.00	0.00			1	20 A	--	--	SPD CHIEF CLERK RECPT	4
5	HLD RECPT	--	--	20 A	1					0.00	0.00	1	20 A	--	--	PREPARATION ETO RECPT	6
7	HLD RECPT	--	--	20 A	1	0.00	0.00					1	20 A	--	--	MONITORS FOR ETO	8
9	DESCONTAMINATION RECPT	--	--	20 A	1			0.00	0.00			1	20 A	--	--	COMPUTERIZED AUDIOVISUAL	10
11	DRY AREA RECPT	--	--	20 A	1					0.00	0.00	1	20 A	--	--	TRAINING AREA PROJECTOR	12
13	CHASE CART HAC RECPT	--	--	20 A	1	0.00	0.00					1	20 A	--	--	TRAINING AREA RECPT	14
15	CLEAN MENS LIGHTS	--	--	20 A	1			0.00	0.00			1	20 A	--	--	STAFF LOUNGE REFRIGERATOR	16
17	CLEAN WOMENS LIGHTS	--	--	20 A	1					0.00	0.00	1	20 A	--	--	STAFF LOUNGE RECPT	18
19	CLEAN MACHINE DENTAL HAND	--	--	20 A	1	0.00	0.00					1	20 A	--	--	STAFF LOUNGE HAC RECPT	20
21	POINT GUARD REPEATER	--	--	20 A	1			0.00	0.00			1	20 A	--	--	POINT GUARD REPEATER	22
23	POINT GUARD REPEATER	--	--	20 A	1					0.00	0.00	1	20 A	--	--	ALARM AREA 1-5	24
25	CUSTOM ULTRASONIC	--	--	20 A	1	0.00	0.00					1	20 A	--	--	COMPUTER RECPT	26
27	CUSTOM ULTRASONIC	--	--	20 A	1			0.00	0.00			1	20 A	--	--	UNKNOWN	28
29	UNKNOWN	--	--	20 A	1					0.00	0.00	1	20 A	--	--	UNKNOWN	30
31	UNKNOWN	--	--	20 A	2	0.00	0.00					3	30 A	--	--	UNKNOWN	32
33	--	--	--	--	--			0.00	0.00			--	--	--	--	--	34
35	PASS THRU**	2-#12 1-#12G	3/4"	20 A	1					0.80	0.00	--	--	--	--	--	36
37	SCOPE STORAGE RECPT**	2-#12 1-#12G	3/4"	20 A	1	1.00	--					1	--	--	--	SPACE	38
39	SCOPE STORAGE RECPT**	2-#12 1-#12G	3/4"	20 A	1			0.86	--			1	--	--	--	SPACE	40
41	INSTA-HEAT**	2-#10 1-#10G	3/4"	30 A	1					3.00	--	1	--	--	--	SPACE	42
					Total Load:	1.00 kVA		0.86 kVA		3.80 kVA							
					Total Amps:	9 A		7 A		32 A							

Load Classification	Connected Load (kVA)	Demand Factor	Estimated Demand (kVA)	Panel Totals	
Lighting	3.00	100.00%	3.00	**Heat or Cool Dominant:**	Cooling
Receptacle	2.66	100.00%	2.66	**Total Connected Load (kVA):**	5.66
				Total Estimated Demand (kVA):	5.66
				Total Connected Current:	16 A
				Total Estimated Demand Current:	5.66

Note: * INDICATES EXISTING CIRCUIT BREAKER AND NEW INDICATED LOAD. ** INDICATES NEW CIRCUIT BREAKER AND INDICATED LOAD. TOTAL CONNECTED CURRENT IS THE ADDITIONA LOAD ADDED TO THE PANEL.

CD(100%CD-ISSUE FOR BID) SUBMITTAL - 04/22/2024

REVISIONS

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FMS Project and Section

VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES
Phase: CD(100%CD-ISSUE FOR BID)
Project Title: VA PROVIDE HIGH LEVEL DISINFECTION FOR SPS
Project Number: 672-22-810
Building Number: 1
Approved:
FULLY SPRINKLERED
Location: 10 CALLE CASIA - ADM. BLDG. SUITE 4M456 SAN JUAN, PR 00921-3201
Drawing Number: E-601
Issue Date: 04/22/2024
Checked: MDB
Drawn: CDH

4/22/2024 11:15:03 AM

VA FORM 08 - 6231