Department of Veterans Affairs
VIERA VA MEDICAL CENTERS

ADDRESS VIERA SITE DEFICIENCIES 675-23-151

APPROVED FOR CONSTRUCTION

Approved: Director

Approved: Associate Director

Approved: Chief Facilities Management

Approved: Manager / Engineer

Approved: Safety Officer

Approved: Union representative

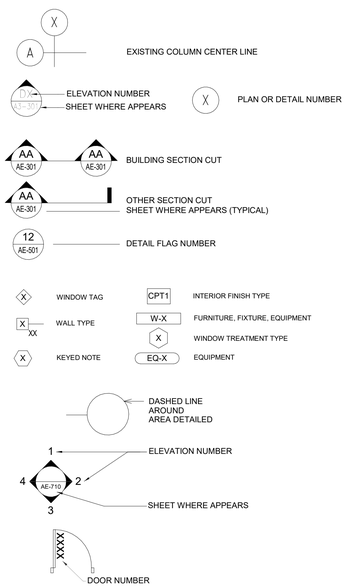
ABBREVIATIONS

A		E		K		R	
AFF	ABOVE FINISHED FLOOR	EA	EACH	KPL	KICKPLATE	R	RADIUS, RISER
ACST	ACOUSTIC (AL)	E	EAST	KIT	KITCHEN	RWD	REDWOOD
ACT	ACOUSTICAL CEILING TILE	EWC	ELECTRIC WATER COOLER	KB	KNEE BRACE	REF	REFERENCE, REFRIGERATOR
APC	ACOUSTICAL PANEL CEILING	ELEC	ELECTRIC (AL)			REINF	REINFORCE
AWP	ACOUSTICAL WALL PANEL	EL	ELEVATION	L		REQD	REQUIRED
AWT	ACOUSTICAL WALL	ELEV	ELEVATOR	LAB	LABORATORY	RB	RESILIENT BASE
ADJ	ADJUSTABLE	EMER	EMERGENCY	LAM	LAMINATE	RF	RESILIENT FLOORING
A/C	AIR CONDITIONING	ENGR	ENGINEER	LC	LAUNDRY CHUTE	RA	RETURN AIR
AHU	AIR HANDLING UNIT	EQ	EQUAL	LV	LAVATORY	REV	REVISION
ALT	ALTERNATE	EQUIP	EQUIPMENT	LT	LIGHT	RD	ROOF DRAIN
ALUM	ALUMINUM	EXIST	EXISTING	LD	LINEAR DIFFUSER	RM	ROOM
AB	ANCHOR BOLT	ETR	EXISTING TO REMAIN	L CL	LINEN CLOSET	RO	ROUGH OPENING
AL	ANGLE	EXP	EXPANSION	LL	LIVE LOAD	RS	ROUGH SAWN
APPROX	APPROXIMATE	EXP BT	EXPANSION BOLT	LLV	LONG LEG VERTICAL		
ARCH	ARCHITECT (URAL)	EJ	EXPANSION JOINT	LPT	LOW POINT	S	
ASPH	ASPHALT	EXP	EXPOSED			SCHED	SCHEDULE
ASSY	ASSEMBLY	EXT	EXTERIOR	M		SECT	SECTION
AUTO	AUTOMATIC	EIFS	EXTERIOR INSULATION AND	MACH	MACHINE	SHTHG	SHEATHING
AWN	AWNING		FINISH SYSTEM	MH	MANHOLE	SHT	SHEET
		F		MFD	MANUFACTURED	SHV	SHELVING
B		FWC	FABRIC WALL COVERING	MFR	MANUFACTURER	SIM	SIMILAR
BALC	BALCONY	FT	FEET, FOOT	MRB	MARBLE BASE	S	SOUTH
BSMT	BASEMENT	FGL	FIBERGLASS	MRF	MARBLE FLOOR	SP FIN	SPECIAL FINISH
BM	BEAM, BENCHMARK	FIN	FINISH	MKR BD	MARKER BOARD	SPEC	SPECIFICATION
BR	BEDROOM	FIN GR	FINISH GRADE	MO	MASONRY OPENING	SQ	SQUARE
BLKG	BLOCKING	FDV	FIRE DEPARTMENT VALVE	MATL	MATERIAL	SF	SQUARE FEET
BD	BOARD	FE	FIRE EXTINGUISHER	MAX	MAXIMUM	SST	STAINLESS STEEL
BOT	BOTTOM	FEC	FIRE EXTINGUISHER	MECH	MECHANICAL	STD	STANDARD
BRKT	BRACKET		CABINET	MED	MEDICAL	STL	STEEL
BRK	BRICK	FHC	FIRE HOSE CABINET	MC	MEDICINE CABINET	STL JST	STEEL JOIST
B CL	BROOM CLOSET	FP	FIREPROOF	MEMB	MEMBRANE	STOR	STORAGE
BLDG	BUILDING	FIXT	FIXTURE	MTL	METAL	STRUCT	STRUCTURAL
BLT IN	BUILT-IN	FLASH	FLASHING	MIN	MINIMUM, MINUTE	S4S	SURFACED FOUR SIDES
BUR	BUILT-UP ROOFING	FLEX	FLEXIBLE	MISC	MISCELLANEOUS	SUSP	SUSPEND
		FLR	FLOOR	MOD	MODIFIED	SW	SWITCH
C		FD	FLOOR DRAIN	MLDG	MOLDING	SYMM	SYMMETRICAL
CAB	CABINET	FLUOR	FLUORESCENT				
CPT	CARPET	FTG	FOOTING	N		T	
CSMT	CASEMENT	FDTN	FOUNDATION	NAT FIN	NATURAL FINISH	TK BD	TACKBOARD
CI	CAST IRON	FRMG	FRAMING	NOM	NOMINAL	TEL	TELEPHONE
CB	CATCH BASIN	FURN	FURNACE, FURNITURE	N	NORTH	TV	TELEVISION
CLG	CEILING			NA	NOT APPLICABLE	TMPD	TEMPERED
CEM	CEMENT	G		NIC	NOT IN CONTRACT	TEMP	TEMPORARY
CL	CENTER LINE	GA	GAGE	NTS	NOT TO SCALE	TER	TERRAZZO
CER	CERAMIC	GALV	GALVANIZED	NO	NUMBER	THK	THICKNESS
CT	CERAMIC TILE	GC	GENERAL CONTRACTOR			TPD	TOILET PAPER DISPENSER
CO	CLEANOUT, CASED OPENING	GEN	GENERATOR	O		T&G	TONGUE AND GROOVE
CLR	CLEAR, COLOR	GL	GLASS	OFF	OFFICE	TOS	TOP OF SLAB, STEEL
CLO	CLOSET	GL BLK	GLASS BLOCK	OC	ON CENTER	T	TREAD
COL	COLUMN	GB	GRAB BAR	OPNG	OPENING	TYP	TYPICAL
CMPST	COMPOSITE	GR	GRADE	OPP	OPPOSITE		
CONC	CONCRETE	GRAN	GRANITE	OPH	OPPOSITE HAND	U	
CMU	CONCRETE MASONRY UNIT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	ORCH	ORCHESTRA	UC	UNDERCUT
CONSTR	CONSTRUCTION	GUT	GUTTER	ORN	ORNAMENTAL	UNFIN	UNFINISH
CONT	CONTINUOUS	GYP BD	GYPSUM BOARD	OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
CONTR	CONTRACTOR			OH	OVERHANG, OVERHEAD		
COTR	CONTRACTING OFFICER	H		OF/CI	OWNER FURNISHED/	V	
CJ	CONTROL JOINT	HNDRL	HANDRAIL		CONTRACTOR INSTALLED	VAC	VACUUM
COP	COPING	HDW	HARDWARE	O	OXYGEN	VR	VAPOR RETARDER
CU	COPPER	HDWD	HARDWOOD			VNR	VENEER
CG	CORNER GUARD	HD	HEAD	P		VP	VENEER PLASTER
CORR	CORRIDOR	HVAC	HEATING, VENTILATING, AIR CONDITIONING	P	PAINT	VIF	VERIFY IN FIELD
CNTR	COUNTER	HT	HEIGHT	PR	PAIR	VERT	VERTICAL
CSK	COUNTER SUNK	HPT	HIGH POINT	PNL	PANEL	VEST	VESTIBULE
		HC	HOLLOW CORE	PTD	PAPER TOWEL DISPENSER	VCT	VINYL COMPOSITION TILE
D		HM	HOLLOW METAL	PTN	PARTITION	VWC	VINYL WALL COVERING
DMPF	DAMPPROOFING	HORIZ	HORIZONTAL	PERF	PERFORATED		
DL	DEAD LOAD	HB	HOSE BIBB	PC	PIECE	W	
DEMO	DEMOLITION	HOSP	HOSPITAL	PLAM	PLASTIC LAMINATE	W CAB	WALL CABINETS
DET	DETAIL	HR	HOUR	PLAS	PLASTIC, PLASTER	WC	WALL COVERING, WATER CLOSET
DIA	DIAMETER			PSF	POUNDS PER SQUARE FOOT	WP	WATERPROOFING, WEATHER
DIFF	DIFFUSER	I		PSI	POUNDS PER SQUARE INCH		
DIM	DIMENSION	IN	INCH	PCC	PRECAST CONCRETE	WT	WEIGHT
DR	DOOR, DRAIN	INFO	INFORMATION	PREFAB	PREFABRICATE	WWF	WELDED WIRE FABRIC
DH	DOUBLE HUNG	ID	INSIDE DIAMETER	PREFIN	PREFINISH	W	WEST
DN	DOWN	INSUL	INSULATED,INSULATION	PROD	PRODUCTION	WF	WIDE FLANGE
DS	DOWNSPOUT	INT	INTERIOR			WDW	WINDOW
DWR	DRAWER			Q		W/	WITH
DWG	DRAWING	J		QTY	QUANTITY	W/O	WITHOUT
DF	DRINKING FOUNTAIN	JAN	JANITOR	QT	QUARRY TILE	WD	WOOD
DUPL	DUPLICATE	JT	JOINT			WDP	WOOD PANELING

PROOF, WORKING POINT

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DEMOLITION
	EXISTING WALL
	NEW WALL
	CONTRACT LIMIT LINE
	COLUMN CENTER LINE



PROJECT DESCRIPTION

THIS PROJECT IS LOCATED IN MELBOURNE, FLORIDA AT THE VIERA VA MEDICAL CENTER. THIS PROJECT WILL ADDRESS A VARIETY OF SITE DEFICIENCIES AT THE VIERA VA CLINIC, TO INCLUDE THE INSTALLATION OF NEW EPOXY FLOORING, CREATING A NEW BATHROOM AND OFFICE, UPGRADE PHYSICAL SECURITY AND SAFETY EYE WASH SYSTEMS AS REQUIRED FOR THE CHILLER PLANT, REPLACING THE MARQUEE SIGN AND CONTROLLER AT THE CLINIC MAIN ENTRANCE, ENCLOSING AN EXISTING CONCRETE PAD AREA FOR SECURE STORAGE ADJACENT TO LOADING DOCK, REPAIR DAMAGED AND CRACKED ASPHALT THROUGHOUT THE CLINIC PARKING AND ROADWAY AREAS, ADDRESS POOR STORM WATER STORAGE AT THE NORTHEAST CORNER OF THE PROPERTY.

THIS WORK SHALL INCLUDE BUT NOT BE LIMITED TO ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, & ELECTRICAL.

CODE REFERENCES

BUILDING CODE:
INTERNATIONAL BUILDING CODE (IBC)
INTERNATIONAL EXISTING BUILDING CODE (IEBC)

ACCESSIBILITY CODE & GUIDELINES:
ABAAS & BFDG

MECHANICAL CODE:
INTERNATIONAL MECHANICAL CODE (IMC)

PLUMBING CODE:
INTERNATIONAL PLUMBING CODE (IPC)

ELECTRICAL CODE:
NATIONAL ELECTRICAL CODE (NEC)

NFPA

NFPA NATIONAL FIRE CODES
NFPA 101 LIFE SAFETY CODE
NFPA 99 (2021)
NFPA 70
NFPA 13 (2022)
NFPA 900 (OSHA)

BUILDING INFORMATION

NO EXISTING LIFE SAFETY FEATURES WILL BE MODIFIED AS A RESULT OF NEW CONSTRUCTION.

GENERAL NOTES

A. ANY CHANGES MUST BE APPROVED BY COR BEFORE DOING ANY ADDITIONAL WORK. WORK SCHEDULE TO BE PERFORMED DURING REGULAR DAY SHIFT HOURS (8AM-4:30PM) ANY WORK OUTSIDE OF REGULAR SCHEDULE REQUIRES APPROVAL FROM COR.

B. COORDINATE STAGING AREA WITH COR, AND FIND INTERIOR COVERED STORAGE ON SITE FOR MATERIALS THAT MUST BE PROTECTED FROM ELEMENTS - COORDINATE WITH COR.

C. PERFORM WORK IN ACCORDANCE WITH VHA DIRECTIVE 2004-012 SAFETY AND HEALTH DURING CONSTRUCTION ACTIVITIES AND VHA DIRECTIVE 7701 OCCUPATIONAL SAFETY AND HEALTH (OSH) .

D. WORK PERFORMED FOR THIS PROJECT MAY INTERRUPT SERVICE TO ADJACENT AREAS AT TIMES BUT WILL NOT INTERRUPT OVERALL FACILITY OPERATION. SEE ELECTRICAL FOR POWER INTERRUPTION AND OUTAGE REQUIREMENTS.

E. CONTRACTOR TO VERIFY ALL DETAILS AGAINST EXISTING CONDITIONS PRIOR TO PURCHASE OF EQUIPMENT AND PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR BRINGING ANY DISCREPANCIES IN PLANS AND EXISTING SITE CONDITIONS TO IMMEDIATE ATTENTION OF CONTRACTING OFFICER REPRESENTATIVE.

F. CONTRACTOR SHALL PERFORM ALL WORK AND PROVIDE ALL MATERIALS IN ACCORDANCE WITH VA MASTER CONSTRUCTION SPECIFICATIONS, WHICH CAN BE FOUND AT HTTP://WWW.CFM.VA.GOV/TIL/. WHERE DISCREPANCIES ARE FOUND THE MORE STRINGENT SHALL APPLY.

G. NOT ALL KEYNOTES ARE ON ALL SHEETS.

INFECTION CONTROL MEASURES

NOTE: IN ADDITION TO THE FOLLOWING INFECTION CONTROL MEASURES OF ICRA CLASS & PERMIT LEVEL IV, THE CONTRACTOR SHALL REVIEW THE VA SAFETY-QUALITY CONTROL-INFECTION CONTROL DOCUMENTS IN THE SPECIFICATIONS. THE AE WILL PROVIDE A FORM FOR THE CONTRACTOR TO FILL OUT

DURING CONSTRUCTION:

A. ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF DUCT SYSTEM.

B. COMPLETE ALL CRITICAL BARRIERS I.E. SHEET ROCK, PLYWOOD, PLASTIC, TO SEAL AREA FROM NON-WORK AREA OR IMPLEMENT CONTROL CUBE METHOD (CART WITH PLASTIC COVERING AND SEALED CONNECTION TO WORK SITE WITH HEPA VACUUM FOR VACUUMING PRIOR TO EXIT) BEFORE CONSTRUCTION BEGINS.

C. MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK SITE UTILIZING HEPA EQUIPPED AIR FILTRATION UNITS. PROVIDE NEGATIVE AIR PRESSURE MONITOR.

D. SEAL HOLES, PIPES, CONDUITS, AND PUNCTURES APPROPRIATELY.

E. CONSTRUCT ANTEROOM AND REQUIRE ALL PERSONNEL TO PASS THROUGH THIS ROOM SO THEY CAN BE VACUUMED USING A HEPA VACUUM CLEANER BEFORE LEAVING WORK SITE OR THEY CAN WEAR CLOTH OR PAPER COVERALLS THAT ARE REMOVED EACH TIME THEY LEAVE THE WORK SITE.

F. DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED BY A SAFETY OFFICER AND INFECTION CONTROL COORDINATOR AND THOROUGHLY CLEANED BY THE ENVIRONMENTAL MANAGEMENT SERVICES.

UPON COMPLETION OF PROJECT:

A. REMOVE BARRIER MATERIAL CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.

B. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.

C. COVER TRANSPORT RECEPTACLES OR CARTS. TAPE COVERING UNLESS SOLID LID.

D. VACUUM WORK AREA WITH HEPA FILTERED VACUUMS.

E. WET MOP AREA WITH DISINFECTANT.

F. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.

OWNER

Department of Veterans Affairs

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Project No: 675-23-151

DESIGN TEAM

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ISSUED SHEETS

Sheet Number	Sheet Name
GENERAL	
GI-001	COVER SHEET
CIVIL	
CS-001	CIVIL LEGEND AND NOTES
CS-100	CIVIL OVERALL EXISTING CONDITIONS SITE PLAN
CS-101	CIVIL OVERALL SITE PLAN
CS-102	CIVIL SITE PLAN
CS-103	CIVIL DRAINAGE SITE PLAN AND EROSION CONTROL DETAILS
ARCHITECTURAL	
AE-100	VIERA SCOPE/PHASING
AE-101	ENLARGED PLANS
AE-102	ENLARGED PLANS
AE-103	PARTITION TYPES
AE-104	TOILET LAYOUTS AND MOUNTING HEIGHTS
AE-105	DOOR, SAFETY GLAZING AND LOUVER INFORMATION
AE-106	CEILING DETAILS
AE-107	PARTITION HEAD DETAILS
AE-108	GYP BD DETAILS
STRUCTURAL	
S-001	STRUCTURAL NOTES, DESIGN CRITERIA & ABBREVIATIONS
S-101	STRUCTURAL PLANS AND DETAILS
MECHANICAL	
M-001	MECHANICAL LEGEND AND ABBREVIATIONS
M-201	MECHANICAL PLAN - CENTRAL PLANT
PLUMBING	
P-001	PLUMBING LEGEND AND ABBREVIATIONS
P-201	PLUMBING PLAN - CENTRAL PLANT
FIRE PROTECTION	
F-000	FIRE PROTECTION NOTES, LEGENDS AND DETAILS
F-101	FIRE PROTECTION PLANS
ELECTRICAL	
EP-000	SYMBOLS AND ABBREVIATIONS
ED-101	ELECTRICAL DEMOLITION PLAN
EP-100	ELECTRICAL POWER PLAN
EP-101	ELECTRICAL SITE PLAN - OVERALL
EP-601	ELECTRICAL ONE-LINE DIAGRAM
EL-101	ELECTRICAL LIGHTING PLAN
EL-401	LIGHTING DETAILS
SPECIAL SYSTEMS	
E-000	SPECIAL SYSTEMS LEGEND, NOTES & ABBREVIATIONS
EY-100	VIERA - OVERALL PLAN
EY-101	SPECIAL SYSTEMS & TELECOMM. FLOOR PLAN
ET-500	TELECOMMUNICATION DETAILS
ET-600	FIBER BACKBONE RISER DIAGRAM

VICINITY MAP - LAKE VIERA

NORTH

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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STAMP

STATE OF FLORIDA
DAVID M COMBS
AR98921
11.03.2023
REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: COVER SHEET	Phase: BID SET	Project Title: ADDRESS VIERA SITE DEFICIENCIES	Project Number: 675-23-151
Approved:	Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940		Building Number: -
		Issue Date: NOV. 3, 2023 / Checked: AESUS / Drawn: AESUS	Drawing Number: GI-001

VA FORM 08 - 6231

ABBREVIATIONS

ABBR.	DESCRIPTION
ARV	AIR RELEASE VALVE
BOP	BEGINNING OF PIPE
BOW	BOTTOM OF WALL
BTW	BOTTOM TOE OF WALL
CB	CATCH BACK
℄	CENTERLINE
EL	ELEVATION
EOP	END OF PIPE
EX	EXISTING
FES	FLARED END SECTION
FL	FLOWLINE
GB	GRADE BREAK
HDPEP	HIGH DENSITY POLYETHYLENE PIPE
HGL	HYDRAULIC GRADE LINE
MSE	MECHANICALLY STABILIZED EARTH
PC	POINT OF CURVATURE
PCR	POINT OF CURB RETURN
PGL	PROFILE GRADE LINE
PT	POINT OF TANGENCY
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
STA	STATION
STM	STORM
TC	TOP OF CURB
TOP	TOP OF PIPE
TOW	TOP OF WALL
TTW	TOP TOE OF WALL
WQ	WATER QUALITY
WQCV	WATER QUALITY CAPTURE VOLUME
WSE	WATER SURFACE ELEVATION

GENERAL CIVIL NOTES

1. LOCATION OF ALL EXISTING UTILITIES (PRIVATE OR PUBLIC) SHALL BE IDENTIFIED OR VERIFIED BY CONTRACTOR PRIOR TO MOBILIZATION, CONSTRUCTION, OR ORDERING OF MATERIALS. FOR INFORMATION CONTACT:LOCAL AGENCY, PRIVATE ENTITY, OR OTHER ASSOCIATED ENTITIES WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL BEAR THE FULL COST OF REMOVAL, REPLACEMENT, AND DELAY RELATED TO UNVERIFIED EXISTING CONDITIONS. WHERE THE CONTRACTOR FINDS CONFLICTS OR DISCREPANCIES THEY SHALL BE REPORTED IMMEDIATELY TO THE RESIDENT ENGINEER.
2. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE WORK SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIFICATIONS IN A SATISFACTORY MANNER. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, TOOLS, LABOR, AND INCIDENTALS TO COMPLETE THE WORK.
3. IN SOME CASES THERE ARE AREAS OF THE SITE DEPICTED ON MORE THAN ONE PAGE OF THE PLANS, HOWEVER ALL IMPROVEMENTS ARE NOT DEPICTED ON EVERY PAGE. THE CONTRACTOR SHALL REVIEW EACH PAGE OF THE PLANS AND DETAILS AND SHALL CONSTRUCT ALL IMPROVEMENTS REGARDLESS OF WHETHER THEY ARE SHOWN ON EVERY PAGE. WHERE DISCREPANCIES ARE FOUND ON PLANS OR DETAILS SHOWN ON THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BEAR THE FULL COST OF REMOVAL, REPLACEMENT, DELAY, AND MOBILIZATION RELATED TO FAILURE TO REVIEW ALL PLANS.
4. CONTRACTOR SHALL PROVIDE MEASURES AS NECESSARY TO MAINTAIN NORMAL AND EMERGENCY OPERATIONS OF THE SITE INCLUDING UTILITY SERVICES, UNLESS AUTHORIZED AND COORDINATED BY THE ENGINEER OF RECORD.
5. CONTRACTOR SHALL DOCUMENT EXISTING PAVEMENT MARKINGS BY PHOTOGRAPHS OR VIDEO RECORDING PRIOR TO CONSTRUCTION. UPON FINAL APPLICATION OF PAVEMENT SEALER, CONTRACTOR SHALL REPAINT ALL MARKINGS TO MATCH EXISTING.
6. ANY MATERIALS TO BE REMOVED FROM THE PROJECT AREA FOR DISPOSAL SHALL BE HAULED TO THE APPROVED FACILITY AND DISPOSED OF PROPERLY. THE CONTRACTOR SHALL REMOVE FROM THE PROJECT AREA ALL SURPLUS MATERIAL. THIS SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM. SURPLUS MATERIAL FROM EXCAVATION INCLUDING UNCLASSIFIED DIRT, TRASH, ETC. SHALL BE PROPERLY DISPOSED OF AT A SITE ACCEPTABLE TO THE RESIDENT ENGINEER (RE). THE CONTRACTOR SHALL PROVIDE A WRITTEN LETTER STATING SO. ALL SALVAGE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PROJECT SITE EXCEPT AS INDICATED ON PLANS OR WITHIN THE SPECIFICATIONS. ALL EXCESS EXCAVATED MATERIAL APPROVED BY THE RESIDENT ENGINEER (RE) REMOVED FROM THE SITE BECOMES PROPERTY OF THE CONTRACTOR. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAYS OR WITHIN THE LIMITS OF REGULATED FLOODPLAINS WITHOUT WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNER AND THE RESIDENT ENGINEER (RE). IF THE CONTRACTOR PLACES EXCESS MATERIAL IN THE AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL PLACEMENT AND HE SHALL REMOVE THE MATERIAL AT HIS OWN COST AND RESTORE AREAS TO ORIGINAL CONDITIONS.

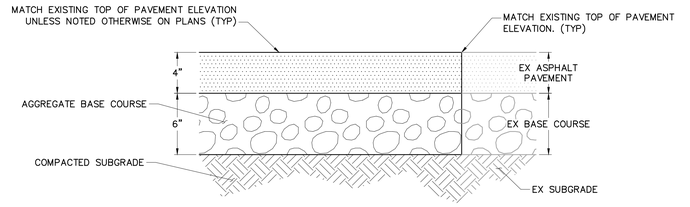
GRADING NOTES

1. EXISTING LAWN/MEADOWS AND TREES OUTSIDE THE NOTED LIMITS OF CONSTRUCTION SHALL BE OFF LIMITS TO ANY TYPE OF CONSTRUCTION ACTIVITY EXCEPT FOR FINAL SEEDING OPERATIONS. TEMPORARY CONSTRUCTION FENCE OR OTHER VISIBLE BOUNDARY SHALL BE ERECTED AROUND THESE SITES PRIOR TO THE START OF ANY CONSTRUCTION. WORK SHALL BE LIMITED AS MUCH AS POSSIBLE TO WITHIN THE LIMITS OF GRADING. USE SMALLER EQUIPMENT WHERE NECESSARY.
2. SURFACE PREPARATION:
   - 2.1. FOR ROADWAY REPAIR/REHABILITATION OF EXISTING AREAS: FOLLOW APPROPRIATE METHOD OF TREATMENT FOR PAVED SURFACE PER SPECIFICATION 32 12 16 ASPHALT PAVING.
   - 2.2. WITHIN LIMITS OF GRADING: SEE SPECIFICATION 31 20 11, EARTH MOVING. AT A MINIMUM THE TOP 3 INCHES OF EXISTING GROUND SHALL BE GRUBBED TO REMOVE GRASSES AND VEGETATION WITHIN THE AREAS OF CUT AND FILL AND DISPOSED PER GENERAL NOTE #6 (THIS SHEET). THEN A MIN. 6 INCH LAYER OF TOPSOIL SHALL BE STRIPPED IN ALL AREAS OF CUT AND FILL. CONTRACTOR SHALL STOCKPILE AND RE-SPREAD SUFFICIENT TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES TO ALL DISTURBED AREAS TO BE SEEDED OR SODDED.
3. ANY EXCESS EXCAVATION/OVERBURDEN REMAINING UPON THE COMPLETION OF CONSTRUCTION ACTIVITY SHALL BE DISPOSED OF OFFSITE PER GENERAL NOTE #6 (THIS SHEET).
4. THE FINISHED GRADE INDICATES THE SURFACE ELEVATION AFTER THE LAYER OF TOPSOIL AND PAVING HAVE BEEN PLACED.
5. EXCEPT WHERE GRADE BREAKS ARE INDICATED ON THESE PLANS, ALL GRADES SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE NEW GRADES MEET EXISTING ARE NOT ACCEPTABLE. SURVEY STAKES ARE FOR GENERAL GRADING PURPOSES ONLY. NOT ALL SLOPES ARE CONSTANT AND THEREFORE THE GRADING PLANS SHALL BE REFERRED TO FOR FINAL GRADE SHAPING. THE GRADING SHALL BE APPROVED BY THE RESIDENT ENGINEER (RE) PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.

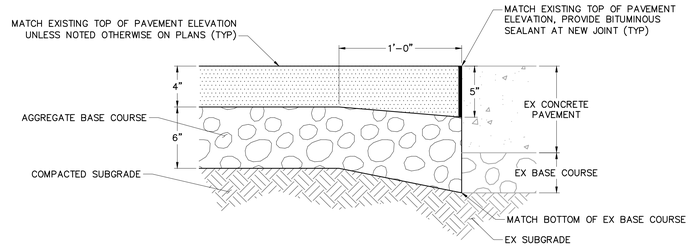
CIVIL TABLE OF CONTENTS

CIVIL LEGEND

EX. MAJOR CONTOUR — 930
EX. MINOR CONTOUR — 931
EX. WATER MAIN — W W W
EX. WATER VALVE
EX. FIRE HYDRANT
EX. SANITARY SEWERS — SD
EX. STORM DRAIN — ST ST
EX. STORM DRAIN INLET
EX. POWER POLE
EX. UNDERGROUND ELECTRIC — E E
EX. UNDERGROUND TELEPHONE — T
EX. TOP OF BANK — TOB TOB TOB
EX. FENCE — X X X
EX. OVERHEAD ELECTRIC — OH OH
EX. INDUSTRIAL WASTE — IW IW
EX. ELECTRICAL BOX — EB
PROPOSED MAJOR CONTOUR — 930
PROPOSED MINOR CONTOUR — 931
GRADING AREA
SEAL COAT PAVEMENT
PAVEMENT REPAIR
REPAINTED PAVEMENT MARKINGS
FLOW ARROW
SILT FENCE — SF SF
LIMITS OF DISTURBANCE
TOE OF SWALE
TOP OF SWALE
INLET PROTECTION — IP
LIMITS OF CONSTRUCTION — LOC
SILT FENCE — SF



ADJACENT TO EXISTING ASPHALT PAVEMENT

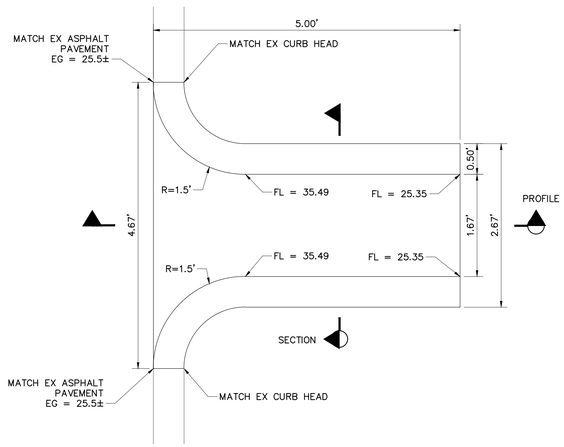


ADJACENT TO EXISTING CONCRETE PAVEMENT

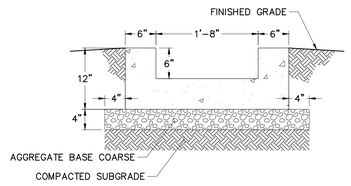
NOTES:

1. SAWCUT EXISTING ASPHALT PAVEMENT FULL DEPTH.

TYPICAL ASPHALT PAVEMENT REPAIR SECTION
NOT TO SCALE



PLAN



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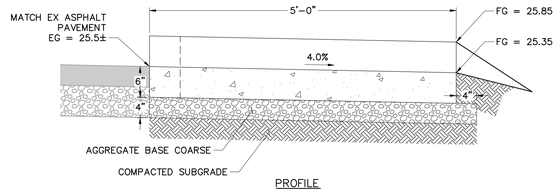

PROFILE

CONCRETE FLUME
NOT TO SCALE

CONSULTANT
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AESUS design group Architecture, Engineering, and, Sustainable Design
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COLORADO LICENSED Mark A. Zabel 26818 11/03/2023 PROFESSIONAL ENGINEER

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

Revisions:	Date:

Drawing Title: **CIVIL LEGEND AND NOTES**
Phase: BID SET
Project Title: ADDRESS VIERA SITE DEFICIENCIES
Project Number: 675-23-151
Building Number: -
Approved:
Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date: NOVEMBER 3, 2023
Checked: RAZ
Drawn: BLG
Drawing Number: **CS-001**

3/9/2023 11:02:16 AM
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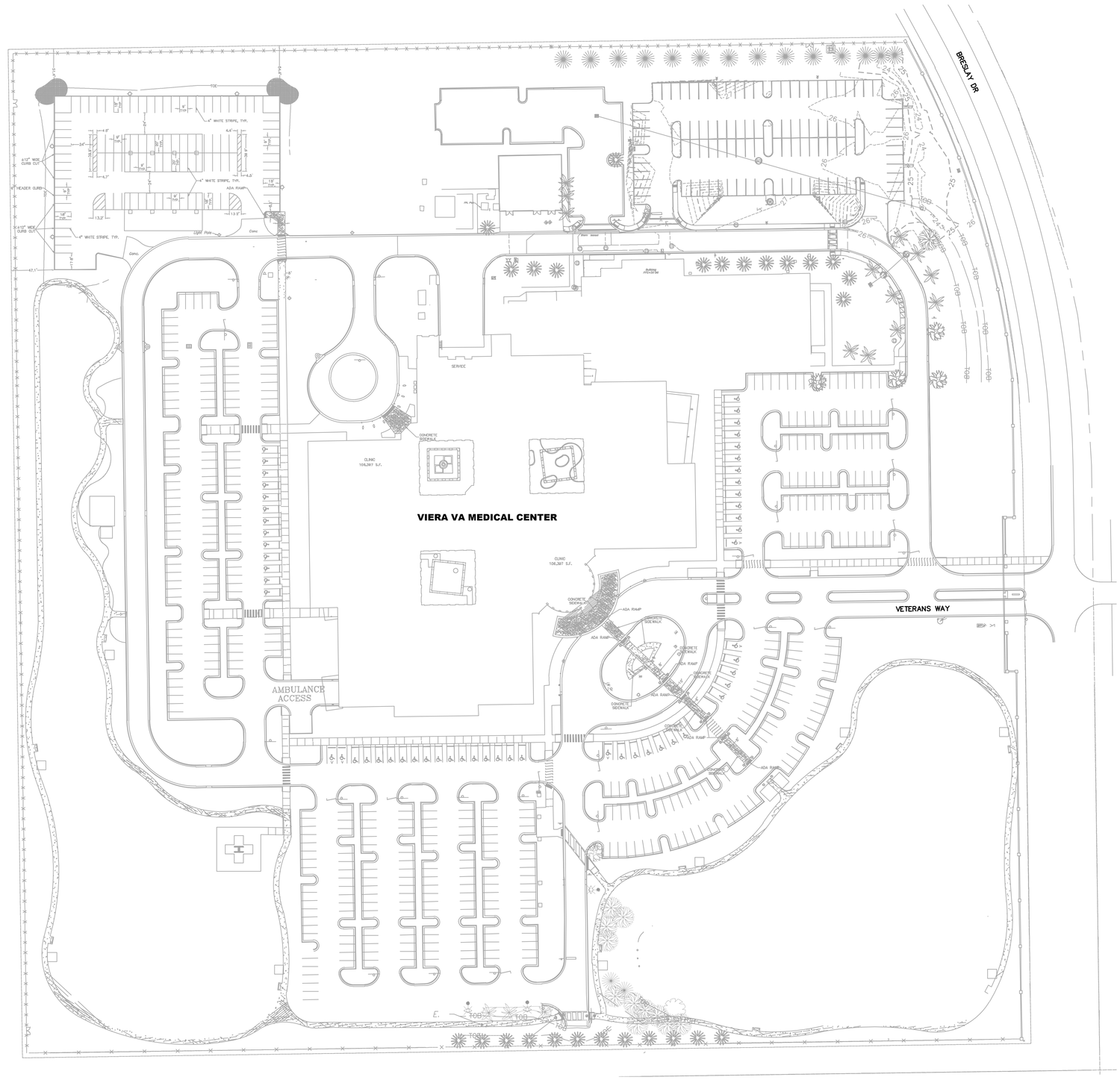
VA FORM 08 - 6231



SHEET NOTES:

1. EXISTING CONDITIONS, INCLUDING UTILITY HORIZONTAL AND VERTICAL LOCATIONS, ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS INCLUDING UTILITIES AND REPORT ANY CONFLICTS PRIOR TO CONSTRUCTION.
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CIVIL LEGEND

- EX. MAJOR CONTOUR — 9.30
- EX. MINOR CONTOUR — 9.31
- EX. WATER MAIN — W
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY SEWERS
- EX. STORM DRAIN — ST
- EX. STORM DRAIN INLET
- EX. POWER POLE
- EX. UNDERGROUND ELECTRIC — E
- EX. UNDERGROUND TELEPHONE — T
- EX. TOP OF BANK — TOB
- EX. FENCE — X
- EX. OVERHEAD ELECTRIC — OH
- EX. INDUSTRIAL WASTE — IW
- EX. ELECTRICAL BOX — EB
- PROPOSED MAJOR CONTOUR — 930
- PROPOSED MINOR CONTOUR — 931
- GRADING AREA
- SEAL COAT PAVEMENT
- PAVEMENT REPAIR
- REPAINTED PAVEMENT MARKINGS
- FLOW ARROW
- SILT FENCE — SF
- LIMITS OF DISTURBANCE
- TOE OF SWALE
- TOP OF SWALE
- INLET PROTECTION — IP
- LIMITS OF CONSTRUCTION — LOC
- SILT FENCE — SF

0 25 50 100
1 inch = 50 ft. Horizontal

NORTH

Revisions:	Date:

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COLORADO LICENSED
Nick A. Zavel
38675
11/03/2023
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	CIVIL OVERALL EXISTING CONDITIONS SITE PLAN
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	-
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Drawing Number	CS-100
Issue Date	NOVEMBER 3, 2023
Checked	RAZ
Drawn	BLG

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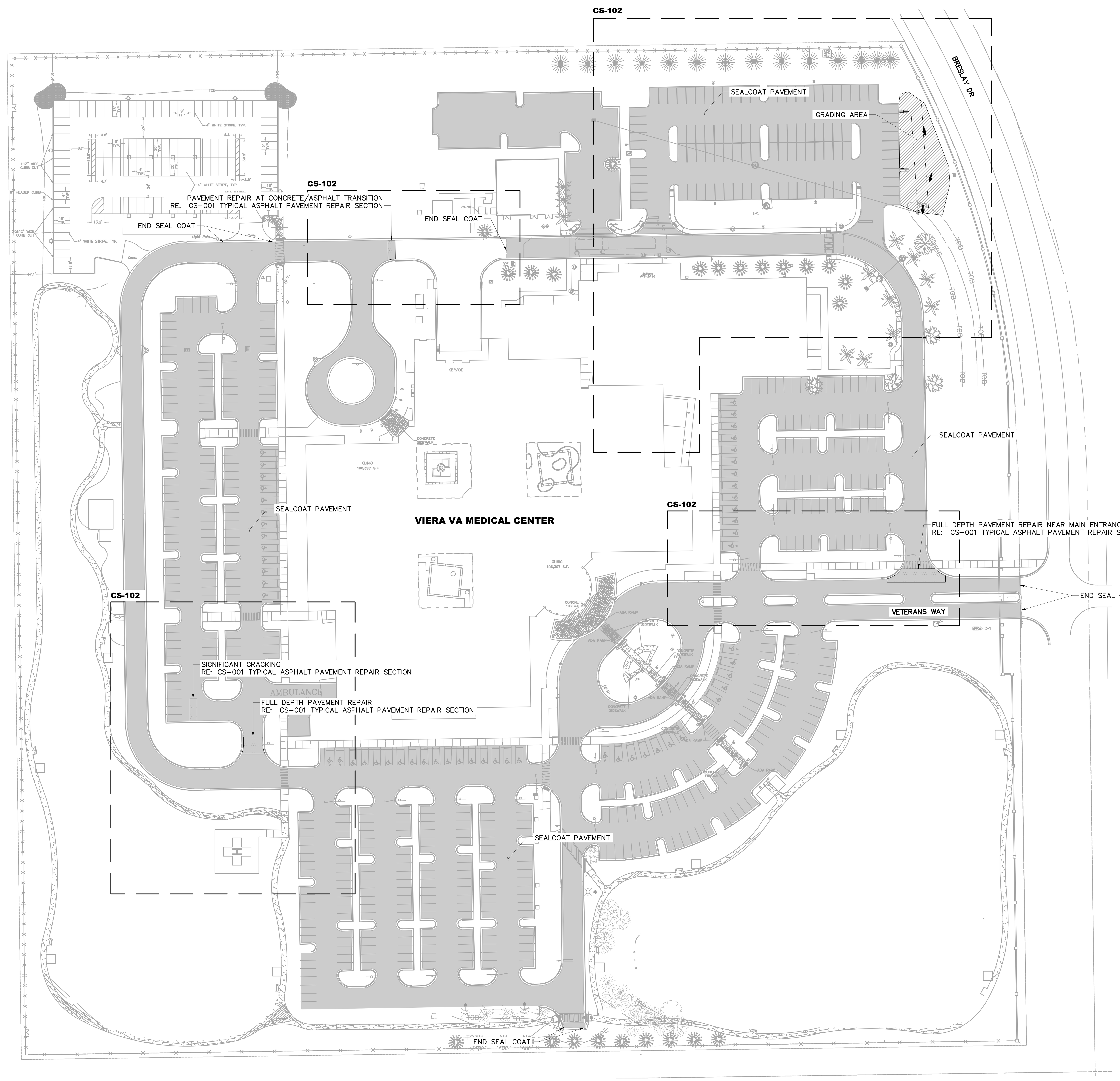

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CIVIL LEGEND

EX. MAJOR CONTOUR	930
EX. MINOR CONTOUR	931
EX. WATER MAIN	W W W
EX. WATER VALVE	⋈
EX. FIRE HYDRANT	
EX. SANITARY SEWERS	
EX. STORM DRAIN	ST SD ST
EX. STORM DRAIN INLET	▦
EX. POWER POLE	
EX. UNDERGROUND ELECTRIC	E E
EX. UNDERGROUND TELEPHONE	T
EX. TOP OF BANK	TOB TOB TOB
EX. FENCE	X X X
EX. OVERHEAD ELECTRIC	OH OH
EX. INDUSTRIAL WASTE	IW IW
EX. ELECTRICAL BOX	EB
PROPOSED MAJOR CONTOUR	930
PROPOSED MINOR CONTOUR	931
GRADING AREA	▨
SEAL COAT PAVEMENT	■
PAVEMENT REPAIR	░
REPAINTED PAVEMENT MARKINGS	
FLOW ARROW	→
SILT FENCE	SF SF
LIMITS OF DISTURBANCE	— — —
TOE OF SWALE	
TOP OF SWALE	
INLET PROTECTION	IP
LIMITS OF CONSTRUCTION	LOC
SILT FENCE	SF

Sunshine 811

0 25 50 100
1 inch = 50 ft. Horizontal

NORTH

Revisions:	Date:

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COLORADO LICENSED
RICK A ZABEL
26818
11/03/2023
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CIVIL OVERALL SITE PLAN

Approved:

Phase: BID SET

Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940

Project Title: ADDRESS VIERA SITE DEFICIENCIES

Issue Date: NOVEMBER 3, 2023 | Checked: RAZ | Drawn: BLG

Project Number: 675-23-151

Building Number: -

Drawing Number: CS-101

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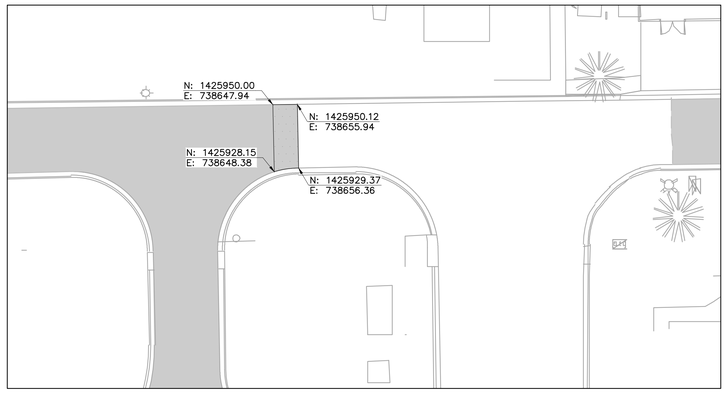

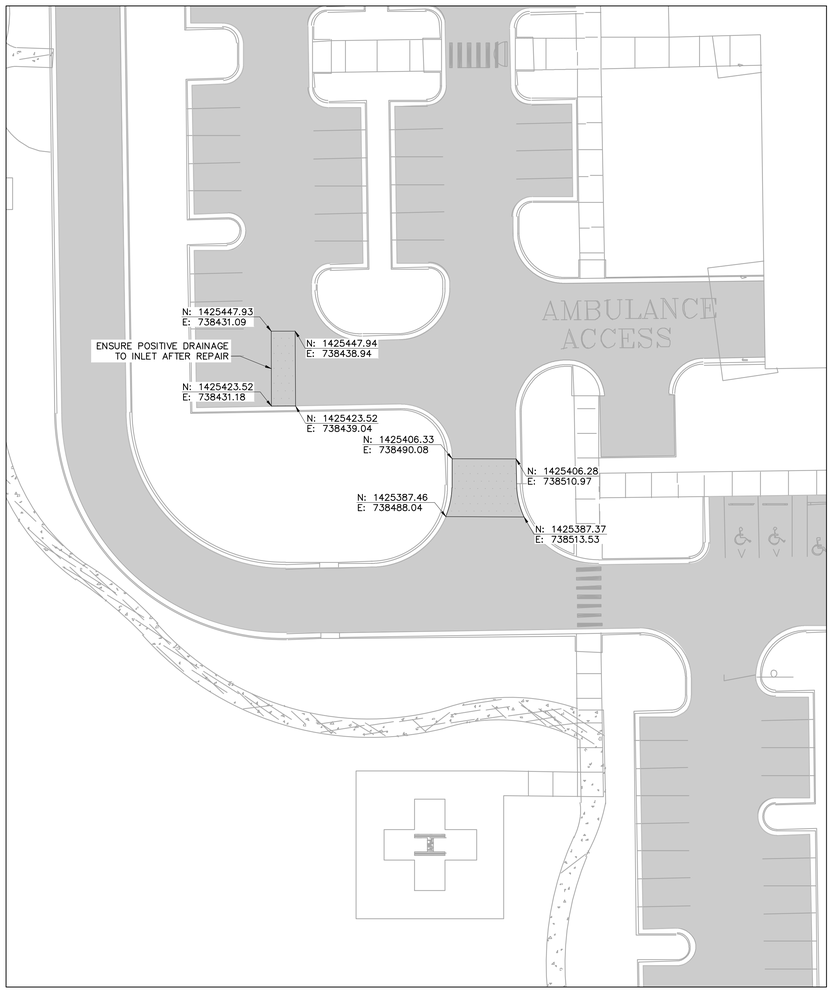

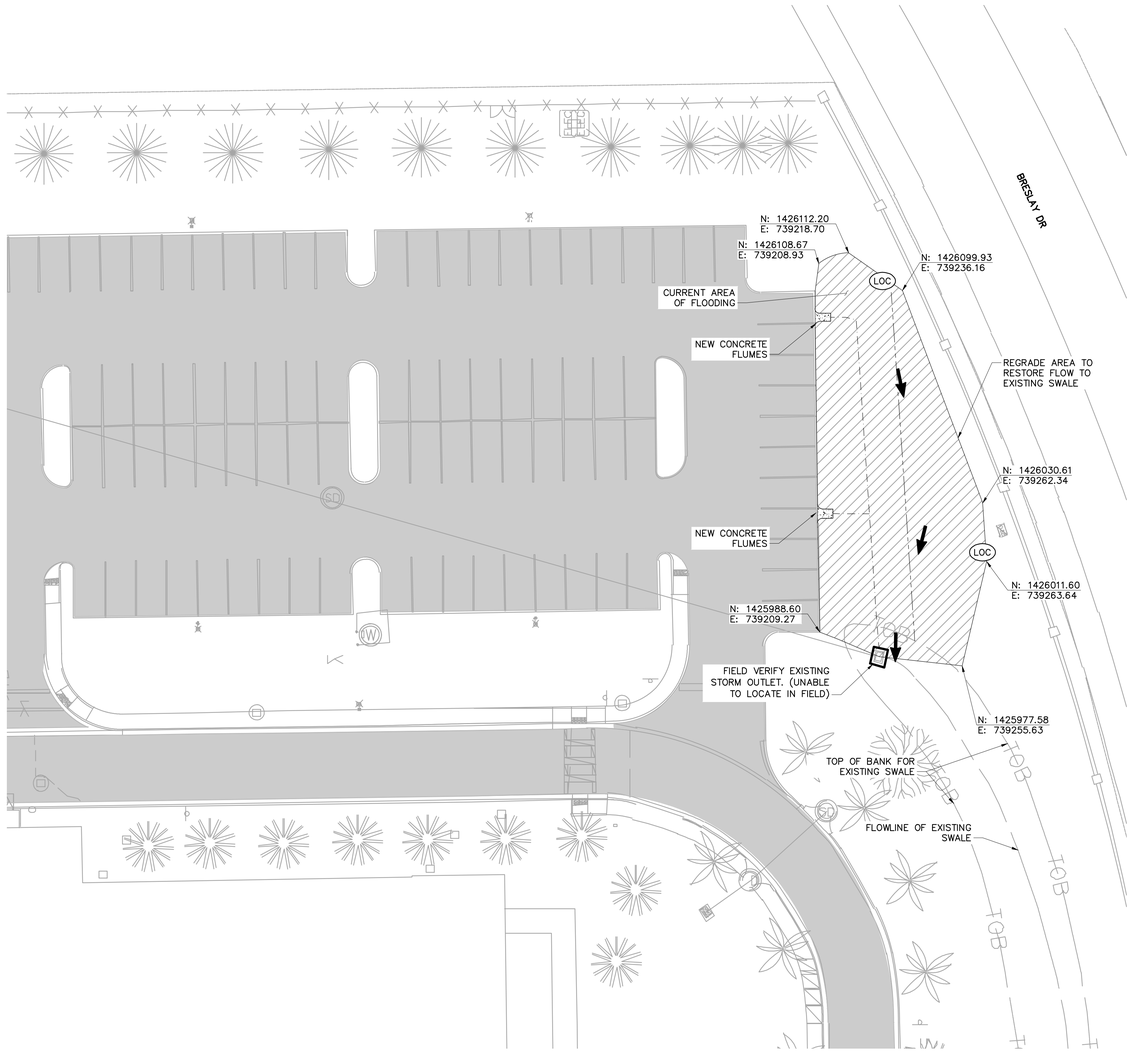

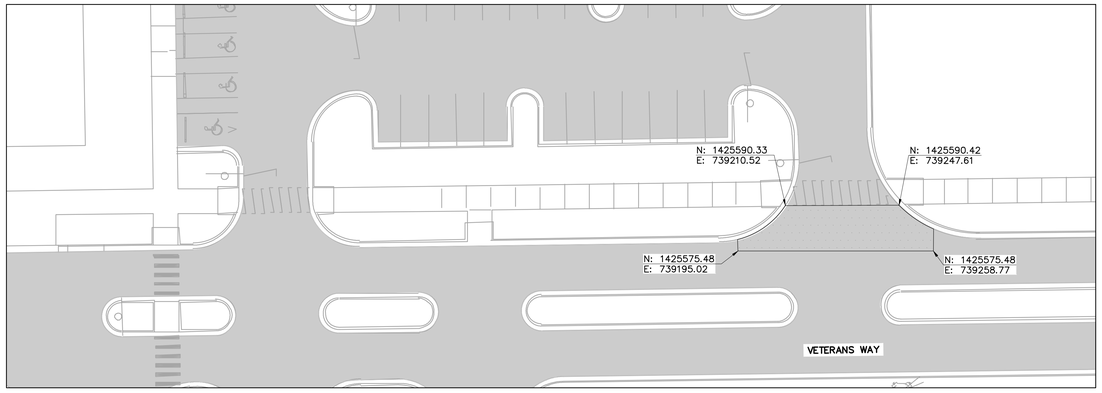

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- EX. MINOR CONTOUR — 931
- EX. WATER MAIN — W
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. SANITARY SEWERS
- EX. STORM DRAIN — ST
- EX. STORM DRAIN INLET
- EX. POWER POLE
- EX. UNDERGROUND ELECTRIC — E
- EX. UNDERGROUND TELEPHONE — T
- EX. TOP OF BANK — TOB
- EX. FENCE — X
- EX. OVERHEAD ELECTRIC — OH
- EX. INDUSTRIAL WASTE — IW
- EX. ELECTRICAL BOX — EB
- PROPOSED MAJOR CONTOUR — 930
- PROPOSED MINOR CONTOUR — 931
- GRADING AREA
- SEAL COAT PAVEMENT
- PAVEMENT REPAIR
- REPAINTED PAVEMENT MARKINGS
- FLOW ARROW
- SILT FENCE — SF
- LIMITS OF DISTURBANCE
- TOE OF SWALE
- TOP OF SWALE
- INLET PROTECTION — IP
- LIMITS OF CONSTRUCTION — LOC
- SILT FENCE — SF

0 10 20 40
1 inch = 20 ft. Horizontal

NORTH

Revisions:	Date:

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COLORADO LICENSED — RICK A. ZABEL — 26878 — 11/03/2023 — PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title CIVIL SITE PLAN	**Phase** BID SET	**Project Title** ADDRESS VIERA SITE DEFICIENCIES	**Project Number** 675-23-151
Approved:	**Location** VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940		**Building Number** -
		Issue Date NOVEMBER 3, 2023 / **Checked** RAZ / **Drawn** BLG	**Drawing Number** CS-102

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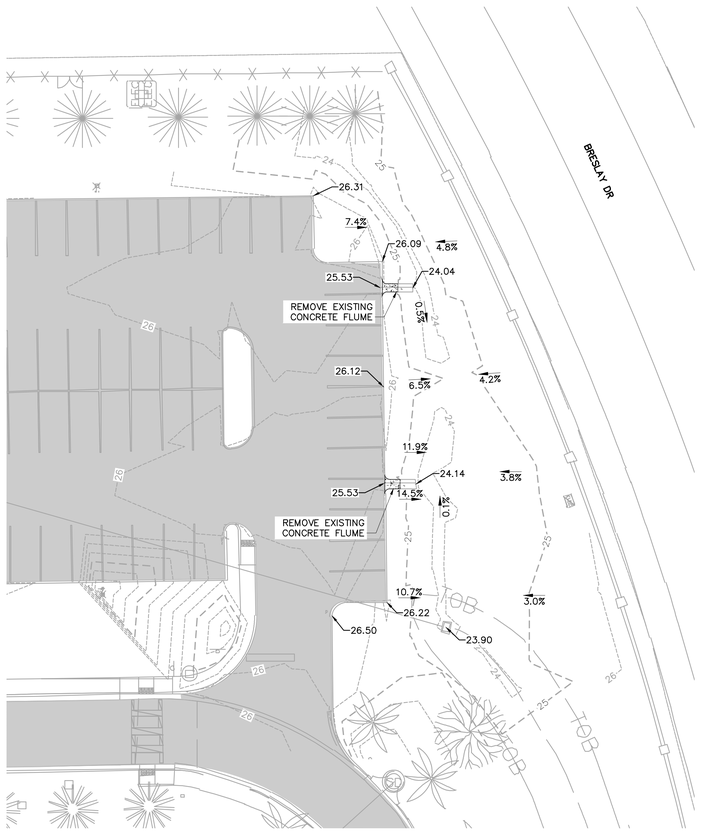
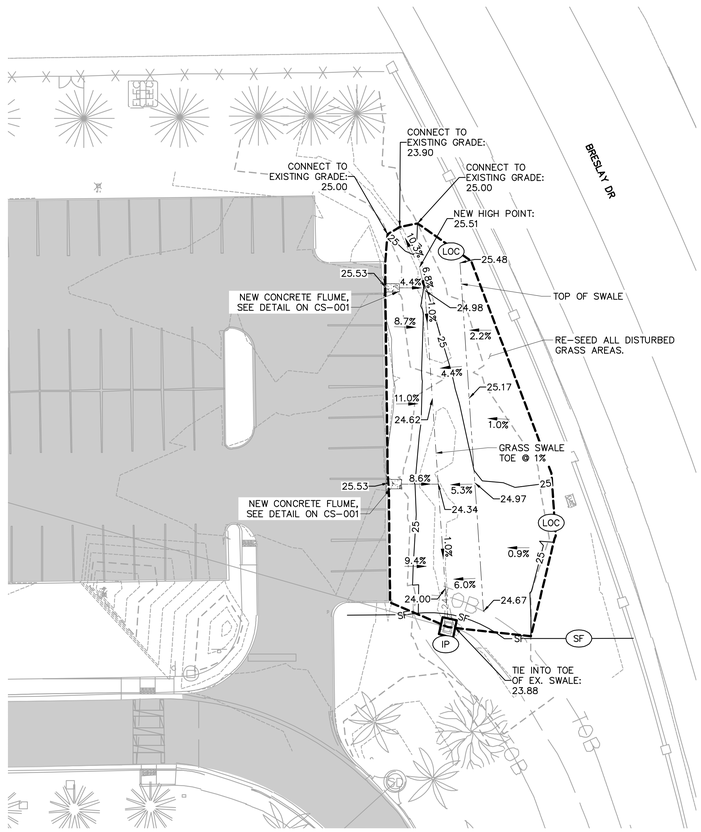


EXISTING DRAINAGE CONDITIONS



PROPOSED DRAINAGE CONDITIONS AND EROSION CONTROL

STATE OF FLORIDA E&SC DESIGNER & REVIEWER MANUAL; LATEST EDITION: JULY 2013

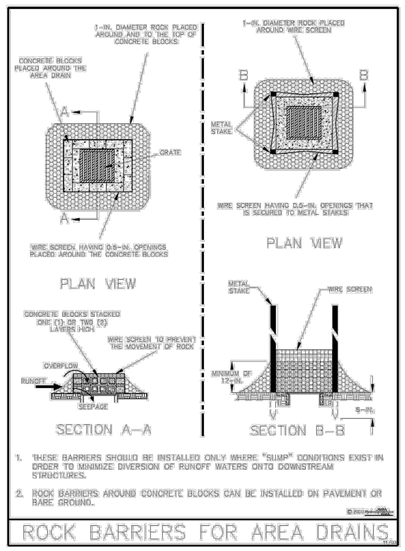


Figure V-13: Illustration of Rock Barriers around Area Drains

STATE OF FLORIDA E&SC DESIGNER & REVIEWER MANUAL; LATEST EDITION: JULY 2013

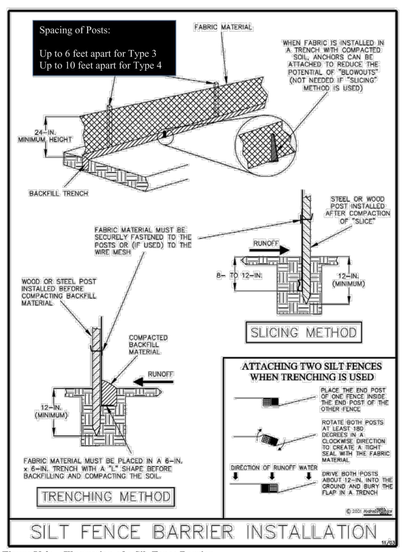


Figure V-2: Illustration of a Silt Fence Barrier

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- EX. FIRE HYDRANT
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- EX. STORM DRAIN — ST
- EX. STORM DRAIN INLET
- EX. POWER POLE
- EX. UNDERGROUND ELECTRIC — E
- EX. UNDERGROUND TELEPHONE — T
- EX. TOP OF BANK — TOB
- EX. FENCE — X
- EX. OVERHEAD ELECTRIC — OH
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- PROPOSED MAJOR CONTOUR — 930
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- PAVEMENT REPAIR
- REPAINTED PAVEMENT MARKINGS
- FLOW ARROW
- SILT FENCE — SF
- LIMITS OF DISTURBANCE
- TOE OF SWALE
- TOP OF SWALE
- INLET PROTECTION — IP
- LIMITS OF CONSTRUCTION — LOC
- SILT FENCE — SF

0 10 20 40
1 inch = 20 ft. Horizontal

NORTH

Revisions:	Date:

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COLORADO LICENSED
Rick Zaal
26878
11/03/2023
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CIVIL DRAINAGE SITE PLAN AND EROSION CONTROL DETAILS

Approved:

Phase: BID SET

Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940

Project Title: ADDRESS VIERA SITE DEFICIENCIES

Project Number: 675-23-151

Building Number: -

Drawing Number: CS-103

Issue Date: NOVEMBER 3, 2023 | **Checked:** RAZ | **Drawn:** BLG

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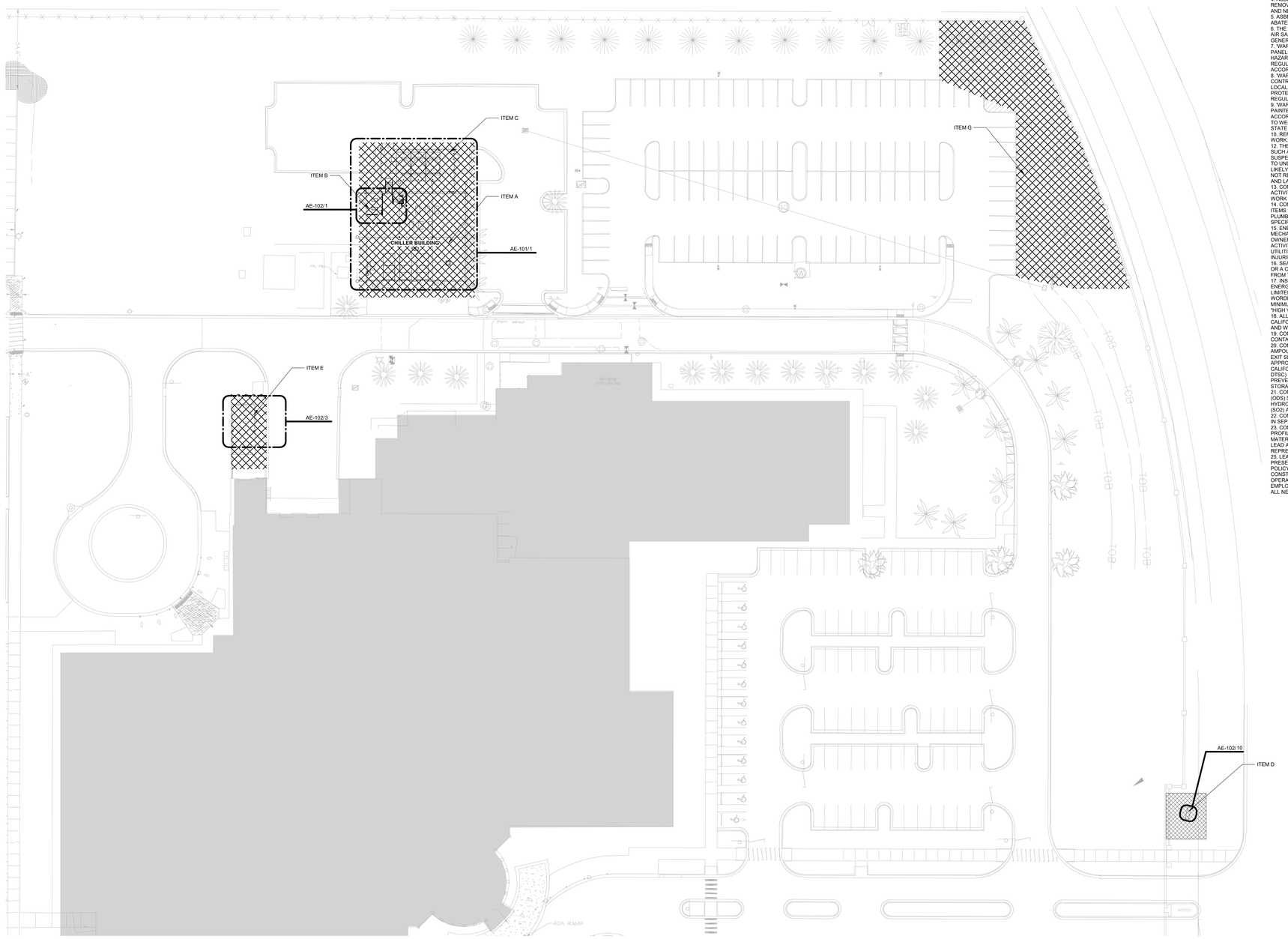

1 LEVEL 01 - VIERA_PHASING
1/32" = 1'-0"

HAZARDOUS MATERIALS

1. THE CONSTRACTOR AND THE CONTRATOR'S SUBS SHALL HAVE RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING REMOVAL OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, LEAD-BASED PAINTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING HVAC FILTERS WITHIN THE AREA OF WORK.
2. ALL PENETRATIONS IN GYPSUM WALL BOARD CEILINGS SHALL BE TIGHTLY SEALED.
3. APPROPRIATE PROTECTION OF THE PUBLIC AND WORKMEN SHALL BE TAKEN REGARDING WORK INVOLVING SAID MATERIALS.
4. ASBESTOS-CONTAINING MATERIALS AFFECTED BY THIS WORK SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH 29 CFR 1926.1101 (OSHA) AND NESHAP's REGULATIONS.
5. ASBESTOS REMOVAL SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.
6. THE OWNER SHALL BE PROVIDED WITH COPIES OF ALL NOTIFICATIONS, PERMITS, AIR SAMPLING RESULTS, DISPOSAL MANIFESTS AND ANY OTHER PAPER WORK GENERATED IN THE ABATEMENT PROCESS.
7. 'WARNING' ASBESTOS MAY BE PRESENT IN EXTERIOR WALL TRANSITE PANELS, AS WELL AS, TRANSITE PIPES. CONTRACTOR TO DISPOSE OF ALL HAZARDOUS WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CONTRACTOR TO WEAR PROPER PROTECTIVE GEAR ACTING IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
8. 'WARNING' ASBESTOS MAY BE PRESENT IN EXISTING FLOORING. CONTRACTOR TO DISPOSE OF ALL HAZARDOUS WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CONTRACTOR TO WEAR PROPER PROTECTIVE GEAR ACTING IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
9. 'WARNING' LEAD MAY BE PRESENT IN STRUCTURAL STEEL PAINT AND OTHER PAINTED SURFACES. CONTRACTOR TO DISPOSE OF ALL HAZARDOUS WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CONTRACTOR TO WEAR PROPER PROTECTIVE GEAR ACTING IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
10. REMOVE ALL ASBESTOS CONTAINING MATERIALS AFFECTING BY SCOPE OF WORK.
12. THE CONTRACTOR SHALL REMOVE ENVIRONMENTALLY REGULATED MATERIALS SUCH AS ASBESTOS AND LEAD-CONTAINING PAINTS IF ENCOUNTERED OR SUSPECTED IN THE SCOPE OF WORK. IT SHALL BE THE CONTRACTOR'S OBLIGATION TO UNDERSTAND THE NATURE, CHARACTER, QUALITY AND SIZES OF MATERIALS LIKELY TO BE ENCOUNTERS AND IMPACTED BY THE PROJECT. FAILURE TO SO, DOES NOT RELIEVE THE CONTRACTOR FROM THE OBLIGATION TO FURNISH ALL MATERIALS AND LABOR TO CARRY OUT THE PROVISIONS OF THIS CONTRACT.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR COORDINATING WORK ACTIVITIES THAT MAY IMPACT ENVIRONMENTALLY-REGULATED MATERIALS WITH WORK SPECIFIED IN OTHER CONTRACT DOCUMENT SECTIONS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY PROTECTING ANY ITEMS TO REMAIN INCLUDING, RETAINING WALLS, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER UTILITIES NOT SPECIFIED TO BE DEMOLISHED. REFER TO SPECIFICATIONS, ARCHITECTURAL, DEMOLITION AND MEP DRAWINGS.
15. ENERGIZED EQUIPMENT AND UTILITIES (ELECTRICAL TRANSFORMERS AND MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS) AS TAGGED BY THE OWNERS REPRESENTATIVE MUST REMAIN ENERGIZED DURING ABATEMENT ACTIVITIES. CONTRACTOR SHALL ADEQUATELY PROTECT EQUIPMENT AND UTILITIES AND TAKE APPROPRIATE PRECAUTIONS TO PREVENT PERSONNEL INJURIES OR DAMAGE TO THE STRUCTURE.
16. SEAL ALL AREAS, FLOOR PENETRATIONS WITH PLASTIC, TAPE, EPOXY OR FOAM OR A COMBINATION THEREOF TO PREVENT MIGRATION OF LIQUID OR DEBRIS FROM THE WORK.
17. INSTALL VISIBLE WARNING PLACARDS ON STATIONARY EQUIPMENT TO REMAIN ENERGIZED. PLACARDS SHALL MEET OSHA REQUIREMENTS INCLUDING, BUT NOT LIMITED TO CFR 1926.416-1926.417, AND BE SUFFICIENTLY SIZED, COLORED AND WORDED TO WARN PERSONNEL ENTERING THE AREA TO ITS PRESENCE. AT A MINIMUM THE SIGNS SHALL BE 8.5"X11" IN SIZE AND CONTAIN THE LANGUAGE "HIGH VOLTAGE" IN BLACK ON A YELLOW BACKGROUND.
18. ALL LEAD-RELATED REMOVAL AND DEMOLITION WORK SHALL BE PERFORMED BY CALIFORNIA DEPARTMENT OF PUBLIC HEALTH (CDPH) CERTIFIED SUPERVISORS AND WORKERS.
19. CONTRACTOR SHALL DISMANTLE FLUORESCENT LIGHT FIXTURES AND CONTAINERIZE FIXTURE BALLASTS FOR DISPOSAL BY OWNER.
20. CONTRACTOR SHALL REMOVE AND RECYCLE ALL MERCURY-CONTAINING AMPOULES IN SWITCHBOARDS, PNEUMATIC CONTROLS, WALL RECEPTACLES, EXIT SIGNS, FIRE DETENTION / ALARM DEVICES, AND THERMOSTATS. SUBMIT FOR APPROVAL TO THE GOVERNMENT'S REPRESENTATIVE, THE NAME OF THE CALIFORNIA EPA DEPARTMENT OF TOXIC SUBSTANCES AND CONTROL (CAL/EPA DTSC) RECYCLE CENTER TO BE UTILIZED. PACKAGE AMPOULES IN ORDER TO PREVENT DAMAGE FROM THE TIME OF REMOVAL, DURING TEMPORARY ON SITE STORAGE, AND TRANSPORT TO THE RECYCLE CENTER.
21. CONTRACTOR SHALL REMOVE AND RECYCLE OZONE DEPLETING SUBSTANCES (ODS) SUCH AS CHLOROFLUOROCARBONS (CFCS) AND HYDROCHLOROFLUOROCARBONS (HCFCS), AS WELL AS HALON, SULFUR DIOXIDE (SO2) AND AMMONIA (NH3) FROM SYSTEMS, EQUIPMENT AND COMPONENTS.
22. CONTRACTOR SHALL KEEP ASBESTOS, LEAD, PCBS, METALS AND ETC. WASTES IN SEPARATE CONTAINERS.
23. CONTRACTOR SHALL PROVIDE ALL WASTE CHARACTERIZATION / TESTING AND PROFILES FOR DISPOSAL OF ALL REMOVED AND DEMOLISHED BUILDING MATERIALS AND EQUIPMENT COATED WITH LEAD PAINT OR CONTAMINATED WITH LEAD AND METALS. COLLECT CHARACTERIZATION SAMPLES WITH GOVERNMENT REPRESENTATIVE.
25. LEAD-CONTAINING PAINTS, COATINGS AND GLAZING MABY BE PRESENT ON THE PROJECT SITE. THE GOVERNMENT HAS A ZERO-TOLERANCE POLICY FOR UNCONTROLLED LEAD RELEASES DURING LEAD RELATED CONSTRUCTION ACTIVITIES. EACH EMPLOYER WHO HAS A WORKPLACE OR OPERATION COVERED BY THIS STANDARD SHALL INITIALLY DETERMINE IF ANY EMPLOYEE MAY BE EXPOSED TO LEAD AT OR ABOVE THE ACTION LEVEL AND TAKE ALL NECESSARY STEPS TO COMPLY WITH THE REGULATIONS.

GENERAL NOTES

A. ANY CHANGES MUST BE APPROVED BY COR BEFORE DOING ANY ADDITIONAL WORK. WORK SCHEDULE TO BE PERFORMED DURING REGULAR DAY SHIFT HOURS (8AM-4:30PM) EXCEPT FOR THE ASPHALT REPAIRS, FOG COATING AND PARKING LOT RESTRIPING, ANY WORK OUTSIDE OF REGULAR SCHEDULE REQUIRES APPROVAL FROM COR.

B. COORDINATE STAGING AREA WITH COR, AND FIND INTERIOR COVERED STORAGE ON SITE FOR MATERIALS THAT MUST BE PROTECTED FROM ELEMENTS - COORDINATE WITH COR.

C. PERFORM WORK IN ACCORDANCE WITH VHA DIRECTIVE 2004-012 SAFETY AND HEALTH DURING CONSTRUCTION ACTIVITIES AND VHA DIRECTIVE 7701 OCCUPATIONAL SAFETY AND HEALTH (OSH) .

D. WORK PERFORMED FOR THIS PROJECT MAY INTERRUPT SERVICE TO ADJACENT AREAS AT TIMES BUT WILL NOT INTERRUPT OVERALL FACILITY OPERATION. SEE ELECTRICAL FOR POWER INTERRUPTION AND OUTAGE REQUIREMENTS.

E. CONTRACTOR TO VERIFY ALL DETAILS AGAINST EXISTING CONDITIONS PRIOR TO PURCHASE OF EQUIPMENT AND PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR BRINGING ANY DISCREPANCIES IN PLANS AND EXISTING SITE CONDITIONS TO IMMEDIATE ATTENTION OF CONTRACTING OFFICER REPRESENTATIVE.

F. CONTRACTOR SHALL PERFORM ALL WORK AND PROVIDE ALL MATERIALS IN ACCORDANCE WITH VA MASTER CONSTRUCTION SPECIFICATIONS, WHICH CAN BE FOUND AT HTTP://WWW.CFM.VA.GOV/TIL/. WHERE DISCREPANCIES ARE FOUND THE MORE STRINGENT SHALL APPLY.

GENERAL PHASING NOTES

A. THE CONTRACTORS SHALL COORDINATE EQUIPMENT AND MATERIAL TRAFFIC AND STORAGE WITH COR.

B. ALL UTILITY WORK SHALL BE COORDINATED WITH MECHANICAL, PLUMBING ELECTRICAL, AND FIRE PROTECTION.

C. ALL ASPECTS OF CONTRACTOR STAGING AND CONSTRUCTION PHASING SHALL BE APPROVED BY COR.

D. ALL HOSPITAL ACCESS POINTS, AND ALL BUILDING EXITS, MUST REMAIN ACCESSIBLE, CLEAR AND UNOBSTRUCTED THROUGHOUT ALL PHASES OF DEMOLITION AND CONSTRUCTION. SHORT-TERM CLOSURE MAY BE ACCEPTABLE AS COORDINATED WITH COR.

E. THE CONTRACTOR SHALL COORDINATE ALL ROOF TOP WORK AND ROOF REPAIRS WITH THE COR.

FLOOR PLAN LEGEND

SCOPE OF WORK

NOT INCLUDED IN SCOPE OF WORK

SITE PLAN GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES THAT ARE NOT MARKED FOR REMOVAL.

2. CONTRACTOR SHALL PHASE ROAD REMOVAL AND CONSTRUCTION SO AS TO ALWAYS ALLOW AT LEAST ONE LANE OF TRAFFIC ON MAIN ACCESS DRIVE. CONTRACTOR MAY CLOSE DRIVE TO ER/TRAUMA ENTRANCE, BUT MUST COORDINATE WITH VA COR. TRAFFIC CLOSURE SHALL MEET MUTCD REQUIREMENTS AND SHALL HAVE LIGHTED BARRICADES FOR PROJECT.

3. CONTRACTOR SHALL INSTALL TEMPORARY 6' TALL CHAIN LINK SECURITY FENCING TO SECURE CONSTRUCTION SITE. CONTRACTOR SHALL INSTALL GATES TO ALLOW WORKING ACCESS FOR EQUIPMENT AND PEOPLE.

4. CONTRACTOR SHALL BLOCK OFF SIDEWALK WITH ORANGE SNOW FENCE AND INSTALL TEMPORARY SIGNAGE INDICATING THAT THE SIDEWALK IS CLOSED.

5. CONTRACTOR SHALL PROVIDE TEMPORARY GRAVEL FILL, AS NEEDED, TO ALLOW FOR VEHICULAR TRAFFIC TO USE ROADWAY WHILE NOT ACTIVELY WORKING IN THE TRENCH. CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THE TEMPORARY GRAVEL FILL IS AT GRADE AND WILL RESPOND IMMEDIATELEY IF TEMPORARY GRAVEL FILL AREA SETTLES, CREATING A HAZARD.

6. CONTRACTOR SHALL SUPPLY TRAFFIC CONTROL IN COMPLIANCE WITH ALL MUTCD REGULATIONS. TRAFFIC CONTROL SHALL CONSIST OF AT LEAST TYPE II BARRICADES WITH LIGHTS ON RESTRICTED LANES OF TRAFFIC AND AT THE EDGE OF PAVEMENT WITH TEMPORARY ACCESS OVER THE ROCKED IN LANE. TRAFFIC CONES MAY BE NEEDED ON A TEMPORARY BASIS TO REDIRECT.

SCOPE OF WORK ITEMS

A. INSTALL EPOXY FLOORING SYSTEM AT THE VIERA CHILLER PLANT APPROXIMATELY 5000 FT/SQ. SYSTEM SHALL BE NON-SLIP AND RESISTANT TO CHEMICAL AND MECHANICAL DAMAGE.

B. CREATE OFFICE AREA OF APPROXIMATELY 150 FT/SQ INSIDE THE VIERA CHILLER PLANT TO INCLUDE OVERSIZE WINDOWS TO VIEW PLANT SYSTEMS, A NEW DOOR SYSTEM, AND CREATE APPROXIMATELY A 100 FT/SQ NEW BATHROOM FACILITY UTILIZING EXISTING ROUGHED IN PLUMBING.

C. UPGRADE VIERA CHILLER PLANT PHYSICAL SECURITY SYSTEMS AS PER VA DESIGN GUIDES AND REGULATIONS, INCLUDING ALL REQUIRED CAMERA SURVEILLANCE, ACCESS CONTROL AND INTRUSION ALARM SYSTEMS.

D. REPLACE THE EXISTING ELECTRONIC MARQUEE SIGN AND CONTROLLER AT THE CLINIC MAIN ENTRANCE WITH A MULTI-COLOR NETWORKED SYSTEM CAPABLE OF DISPLAYING A VARIETY OF LARGE COMPUTER-GENERATED IMAGES AND ALPHA-NUMERIC DYNAMIC MESSAGES GENERATED FROM REMOTE LOCATIONS.

E. FULLY ENCLOSE AN EXISTING CONCREATE PAD AND WALL AREA OF APPROXIMATELY 250 FT/SQ ADJACENT TO THE LOADING DOCK FOR SECURE OUTDOOR STORAGE.

F. REPAIR ALL DAMAGED ASPHALT ROADWAYS AND PARKING AREAS AND PERFORM FOG COAT APPLICATION(S) AND REPAINTING OF ALL STRIPING.

G. ADDRESS POOR STORMWATER DRAINAGE AT THE NORTHEAST AREA OF CLINIC PROPERTY TO MINIMIZE FLOODING.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

AESUS design group Architecture, Engineering, and, Sustainable Design
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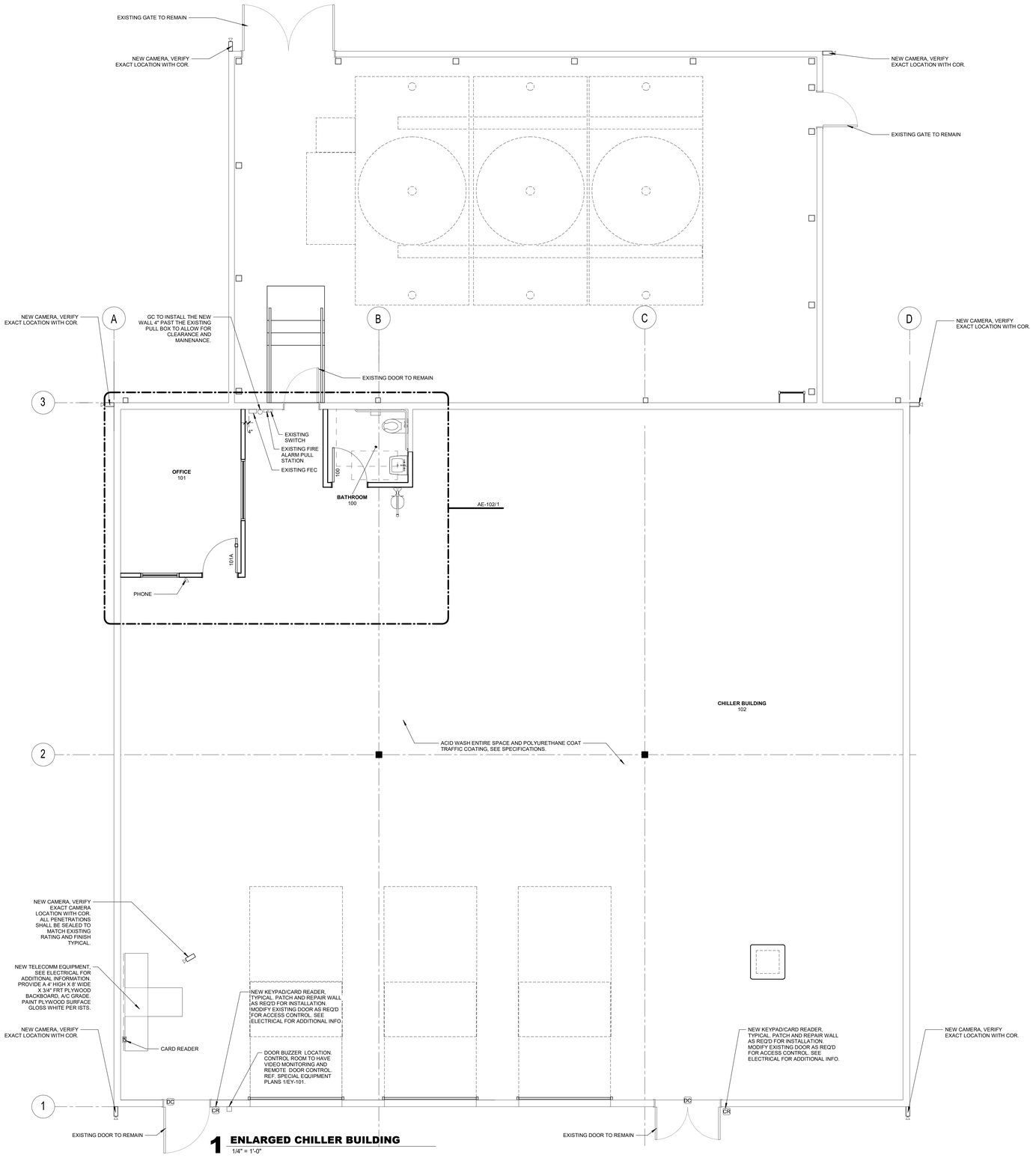
STAMP
STATE OF FLORIDA · DAVID M COMBS · AR98921 · 11.03.2023 · REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	VIERA SCOPE/PHASING
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	-
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date	NOV. 3, 2023
Checked	AESUS
Drawn	AESUS
Drawing Number	AE-100

VA FORM 08 - 6231



1 ENLARGED CHILLER BUILDING

1/4" = 1'-0"

GENERAL NOTES

1. THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS AND LIMITS OF CONSTRUCTION WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. WORK MUST BE ACCOMPLISHED IN AREAS NOT SHOWN ON ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING ELECTRICAL, MECHANICAL, PLUMBING AND TECHNOLOGY ALONG WITH OTHER SYSTEMS. THIS WORK SHALL BE PART OF THIS CONTRACT, AND ALL TRADES SHALL INSPECT THESE AREAS, ASCERTAIN WORK REQUIRED AND DO THE WORK IN ACCORDANCE OF CONTRACT REQUIREMENTS AT NO ADDITIONAL COST. SEE MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY PLANS FOR ADDITIONAL WORK.
2. CONTRACTORS SHALL VISIT THE SITE DURING BIDDING TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL LOCATE, INSPECT AND FIELD VERIFYALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO DEMOLITION AND CONSTRUCTION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES
3. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
4. WHEREVER OPENINGS ARE CUT THROUGH FIRE RATED PARTITIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR WHOM THE HOLE IS CUT TO PATCH AND REPAIR ANY OPENING TO MAINTAIN THE INTEGRITY OF THE FIRE RATING.
5. GENERAL CONTRACTOR TO CHECK MECHANICAL DRAWINGS FOR EXISTING PIPES AND DUCTSFURRED IN WALLS. VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO PROCEEDING WITH REMODELING.
6. FIREPROOFING SHALL BE UNPIERCED. ANY SUBCONTRACTOR PENETRATING THE FIREPROOFING SHALL BE REQUIRED TO REPLACE FIREPROOFING TO THE ORIGINAL CONDITION AND FIRE RATING, AT THE SUBCONTRACTORS EXPENSE.
7. EQUIPMENT UNIT DIMENSIONS ARE FOR PRODUCT DESCRIPTION ONLY, VERIFY SIZE WITH MANUFACTURER.
8. ALL DIMENSIONS PERTAINING TO MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT SHALL BE VERIFIED WITH THE RESPECTIVE TRADE.
9. ALL CONTRACTORS THAT PENETRATE AND/OR DISTURB ANY AREAS AT EXISTING CONDITIONS SHALL PATCH AREA TO MATCH EXISTING ADJACENT AREA OR SURFACE AND PREPARE FOR SCHEDULED FINISH APPLICATION. COORDINATE WORK WITH GENERAL CONTRACTOR PRIOR TO PROCEEDING.
10. VERIFY HEIGHTS AND LOCATIONS OF ACCESS PANELS (AP) AND COORDINATE TYPES WITH TRADES WHICH REQUIRE THEM.
11. PROVIDE LINTELS AND FRAMING FOR GRILLES, LOUVERS, AND ROOF VENTS AS REQUIRED BY MECHANICAL CONTRACTOR, VERIFY SIZE AND LOCATION.
12. STRUCTURAL, MECHANICAL, AND ELECTRICAL ABBREVIATIONS AND SYMBOLS MAY DIFFER FROM ARCHITECTURAL. SEE RESPECTIVE SECTIONS AND/OR DRAWINGS FOR DEFINITIONS.
13. AT MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, PROVIDE 3/4" FRT PLYWOOD BACKING BEHIND ALL SURFACE MOUNTED FIXTURES AND EQUIPMENT, UNLESS NOTED OTHERWISE.
14. CONTRACTOR SHALL EVALUATE INTEGRITY OF ALL PARTITIONS INDICATED BY SYMBOLS ON THE LIFE SAFETY PLAN(S) WITHIN THE PROJECT SCOPE AND UPGRADE AS REQUIRED. ALL FIRE RESISTIVE RATED WALLS SHALL BE CONSTRUCTED OF MATERIALS / ASSEMBLIES MEETING THE RATING INDICATED, TERMINATE AT THE DECK ABOVE WITH A TESTED HEAD OF WALL ASSEMBLY AND ALL PENETRATIONS SHALL BE SEALED WITH A TESTED ASSEMBLY. ALL SMOKE PARTITIONS SHALL BE CONSTRUCTED OF MATERIALS THAT RESIST THE PASSAGE OF SMOKE, TERMINATE AT THE DECK ABOVE WITH A JOINT SEALED WITH FIRE CAULK AND ALL PENETRATIONS SHALL BE SEALED WITH FIRE CAULK.
15. THE GC SHALL MODIFY AND RELOCATE EXISTING AREA DRAINS AS REQUIRED TO INSTALL BUILDING FOUNDATIONS.

DOOR SYMBOLS

- DC — DOOR CONTACT
- CR — CARD READER

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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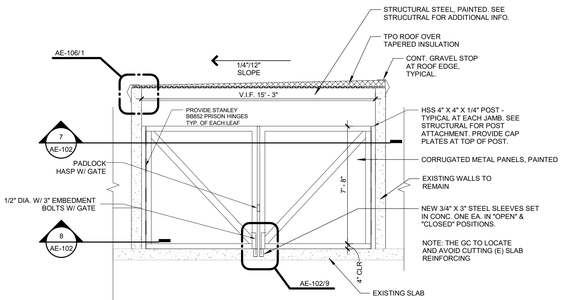
STATE OF FLORIDA — DAVID M COMBS — AR98921 — 11.03.2023 — REGISTERED ARCHITECT

Office of Construction and Facilities Management

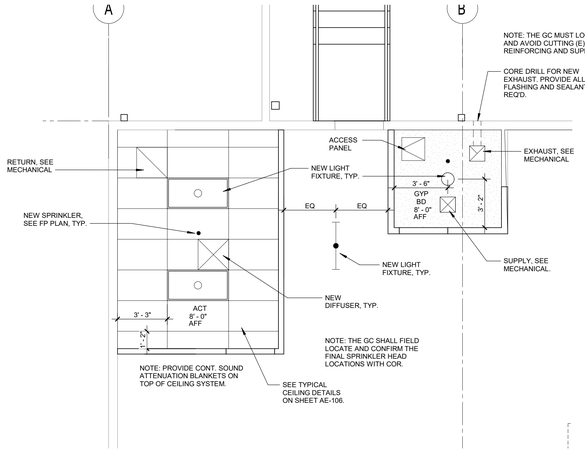
VA U.S. Department of Veterans Affairs

Drawing Title	ENLARGED PLANS
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	-
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date	NOV. 3, 2023
Checked	AESUS
Drawn	AESUS
Drawing Number	AE-101

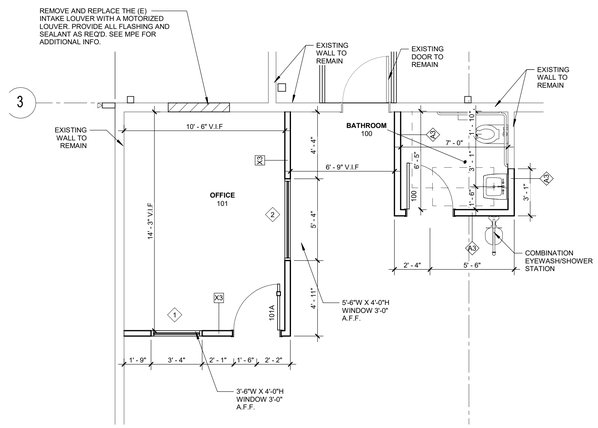
VA FORM 08 - 6231



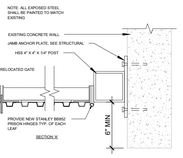
6 GATE ELEVATION
1/4" = 1'-0"



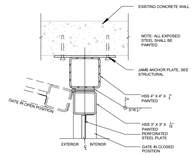
2 LEVEL 01 - VIERA_RCP_1 - AREA A1
1/4" = 1'-0"



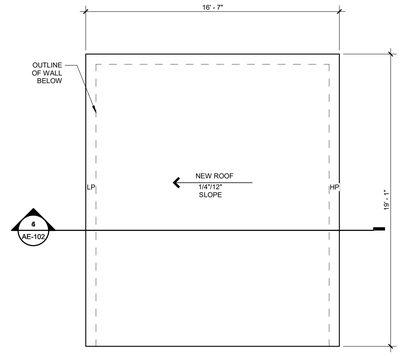
1 ENLARGED OFFICE AND BATHROOM
1/4" = 1'-0"



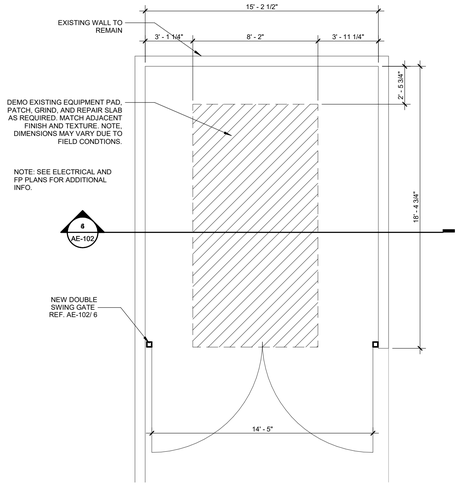
7 GATE SECTION
1 1/2" = 1'-0"



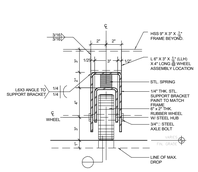
8 GATE JAMB
1 1/2" = 1'-0"



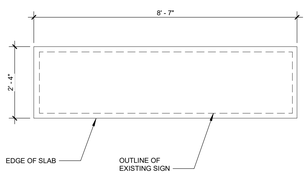
5 ENCLOSURE ROOF PLAN
1/4" = 1'-0"



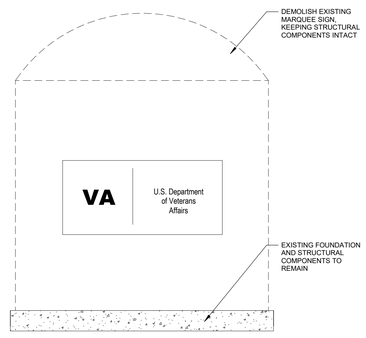
3 ENLARGED ENCLOSURE
1/4" = 1'-0"



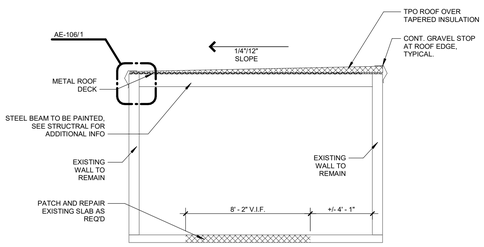
9 GATE WHEEL
1 1/2" = 1'-0"



10 ENLARGED MARQUEE SIGN
1/2" = 1'-0"



11 MARQUEE SIGN DEMO ELEVATION
1/2" = 1'-0"



4 ENCLOSURE SECTION
1/4" = 1'-0"

FLOOR PLAN SYMBOLS	
	DEMOLITION
	EXISITNG WALL
	NEW WALL

CEILING SYMBOLS	
	GYP BD
	ACT - ACOUSTIC CEILING TILE
X	SUPPLY AIR
X	EXHAUST AIR
	DOWNLIGHT
	FLUORESCENT LIGHT
	SPRINKLER, SEE FP PLANS, TYP.
1'-0" A.F.F.	CEILING HEIGHT ABOVE FINISH FLOOR

GENERAL NOTES

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3. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
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5. GENERAL CONTRACTOR TO CHECK MECHANICAL DRAWINGS FOR EXISTING PIPES AND DUCTSFURRED IN WALLS. VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO PROCEEDING WITH REMODELING.
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10. VERIFY HEIGHTS AND LOCATIONS OF ACCESS PANELS (AP) AND COORDINATE TYPES WITH TRADES WHICH REQUIRE THEM.
11. PROVIDE LINTELS AND FRAMING FOR GRILLES, LOUVERS, AND ROOF VENTS AS REQUIRED BY MECHANICAL CONTRACTOR, VERIFY SIZE AND LOCATION.
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13. AT MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, PROVIDE 3/4" FRT PLYWOOD BACKING BEHIND ALL SURFACE MOUNTED FIXTURES AND EQUIPMENT, UNLESS NOTED OTHERWISE.
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15. THE GC SHALL MODIFY AND RELOCATE EXISTING AREA DRAINS AS REQUIRED TO INSTALL BUILDING FOUNDATIONS.

ROOF PLAN GENERAL NOTES

1. ROOF TYPE: *MODIFIED BUILT UP ROOF*
2. ALL ROOFING SURFACES TO SLOPE 1/4" VERTICAL PER 1' - 0" HORIZONTAL MINIMUM, U.N.O.
3. HATCHING INDICATES AREAS WHERE THE ROOF SLOPE SURFACE SLOPE IS ACHIEVED WITH TAPERED INSULATION. THE ROOF SURFACE SLOPE IN AREAS WITHOUT HATCHING IS ACHIEVED WITH SLOPING STRUCTURE, U.N.O.
4. TOP OF INSULATION HEIGHTS, HIGH POINTS AND LOW POINTS, ARE INDICATED AS THE TOP OF ROOF SURFACE ABOVE THE ROOF DRAIN(S). (I.E. + 3.5" WHERE HIGH POINT OF ROOF DRAIN SUMP IS +0"
5. REFER TO SHEET A7.51/A7.52 FOR TYPICAL ROOF DETAILS.
6. ALL ROOF TOP MECHANICAL, ELECTRICAL AND/OR PLUMBING EQUIPMENT SHOWN FOR INFORMATION ONLY. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS AND SPECIFICATIONS FOR SPECIFIC DESIGN INFORMATION.
7. PROVIDE WALKWAY PROTECTION TO MAJOR MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT AS REQUIRED TO PROVIDE SERVICE ACCESS. WALKWAY PROTECTION IS INDICATED AS A GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT.
8. EXISTING ROOFS TO REMAIN, U.N.O.
9. REFERENCE DEMOLITION PLANS AND SECTIONS.
10. PATCH AND REPAIR EXISTING ROOFS DAMAGED DURING CONSTRUCTION.

REFLECTED CEILING PLAN GENERAL NOTES

A. THE GC SHALL VISIT THE SITE PRIOR TO BIDDING TO BETTER UNDERSTAND THE EXISTING CONDITIONS, TYPICAL.

B. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.

C. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OR INDICATED.

D. LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES, AND MISCELLANEOUS DEVICES SHALL BE REMOVED AND RE-INSTALLED AS REQUIRED TO INSTALL THE NEW CABLE TRAY, SEE MPE FOR ADDITIONAL INFO.

E. ALL SPRINKLER HEADS SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE.

F. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON RCP'S ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE SPECIFICATIONS AND MEP DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.

G. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURAL SIGNIFICANT.

H. AT NEW DUCTWORK IN EXISTING CEILING TO REMAIN. REMOVE AND SALVAGE CEILING GRID, CEILING TILES, AND CEILING FIXTURES. REINSTALL IN PLACE, PATCH AND REPAIR AS REQUIRED.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

AESUS design group — Architecture, Engineering, and, Sustainable Design
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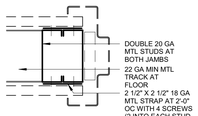
STATE OF FLORIDA — DAVID M COMBS — AR99921 — 11.03.2023 — REGISTERED ARCHITECT

Office of Construction and Facilities Management

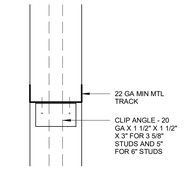
VA U.S. Department of Veterans Affairs

Drawing Title	ENLARGED PLANS
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	-
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date	NOV. 3, 2023
Checked	AESUS
Drawn	AESUS
Drawing Number	AE-102



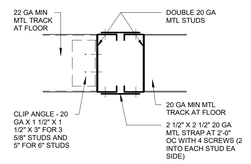
OPTION 2 DOOR OPENING JAMB STUDS

10 3" = 1'-0"



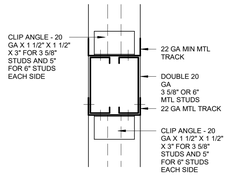
9 OPENING HEADER

3" = 1'-0"



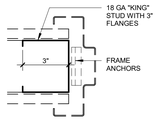
LARGE OPENING JAMB STUDS

8 3" = 1'-0"



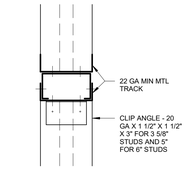
DOUBLE DOOR/LARGE OPENING HEADER

6 3" = 1'-0"



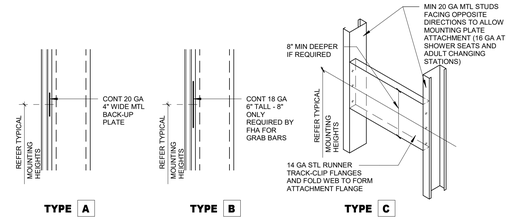
OPTION 1 DOOR OPENING JAMB STUDS

5 3" = 1'-0"



DOOR OPENING HEADER

4 3" = 1'-0"



3 ACCESSORY/EQUIPMENT MOUNTING DETAILS

1/4" = 1'-0"

NOTES:

1. SIGN IS FABRICATED 3/16" ALUMINUM 5052 ALLOY. 5052 IS EFFECTIVELY RESISTANT TO CORROSION FROM SALT WATER AND MARINE ENVIRONMENTS AND IS HIGH STRENGTH.

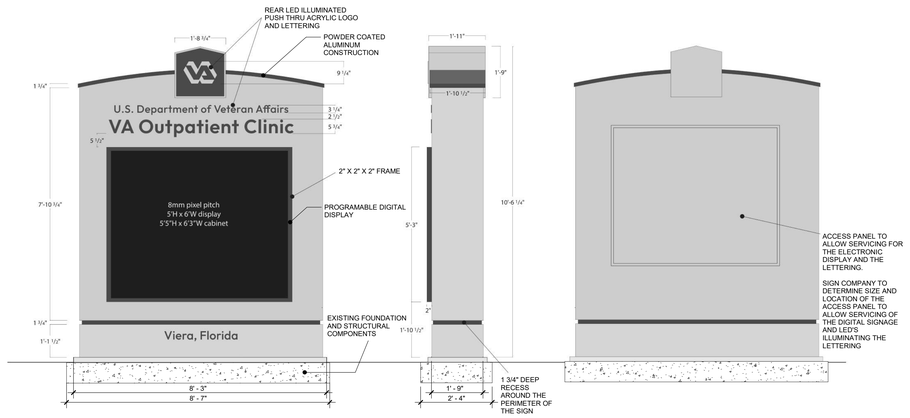
2. PAINT IS TO BE ACRYLIC POLYURETHANE, UV RESISTANT, ALIPHATIC POLYURETHANE SYSTEM ENGINEERED FOR EXTREME COLOR AND GLOSS RETENTION. LEAD AND HEAVY METAL FREE. SEMI GLOSS FINISH.

3. LOGO AND LETTERING IN TOP CABINET TO BE PUSH THRU ACRYLIC WITH INTERNAL LED 6500 ILLUMINATION.

4. SIGN COMPANY TO REMOVE AND DISPOSE OF EXISTING SIGN, SEE AE-102.11. CLEAN AND PREPARE THE EXISTING FOOTING TO ACCEPT THE NEW SIGN.

5. SIGN STRUCTURE TO BE ENGINEERED TO MEET THE WIND CODE REQUIRMENTS PER THE FLORIDA BUILDING CODE.

6. SIGN COMPANY TO PROVIDE VENTILATION IN ACCORDANCE WITH THE RECOMENDATIONS OF THE DIGITAL SIGN MANUFACTURER.



11 MARQUEE SIGN ELEVATION

1/2" = 1'-0"

NOTES

1. PARTITIONS ARE DISTINGUISHED ON FLOOR PLANS BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A COMBINATION OF BOTH DESIGNATIONS.

2. THERE ARE TWO TYPES OF SYMBOL DESIGNATIONS, ONE FOR PARTITONS NOT REQUIRING SOUND ATTENUATION
AND ANOTHER FOR PARTITIONS WHICH REQUIRE SOUND ATTENUATION. REFER TO PARTITION MATRICES FOR
SOUND ATTENUATION BLANKET (SAB) MINIMUM THICKNESS FOR STC INDICATED.

X# / XXX / X — SYMBOL DESIGNATIONS (NO SOUND ATTENUATION)

X# / XXXX / X — SYMBOL DESIGNATION (WITH SOUND ATTENUATION)

3. THERE ARE TWO SYMBOL DESIGNATION SYSTEMS USED. THE FIRST SYSTEM CONSISTS OF TWO AND THREE CHARACTERS, THE FIRST CHARACTER IS A LETTER INDICATING THE PARTITION TYPE. THE SECOND CHARACTER IS
NUMERIC INDICATING THE STUD OR CMU WIDTH. REFER TO LEGEND BELOW. THIS SYSTEM IS USED TO DEFINE
WALL TYPES: A, B, C, D, E, F, H, J, K, M, R

NUMERIC CHARACTER	STUD WIDTH	CMU WIDTH
1	1 5/8"	
2	2 1/2"	
3	3 5/8"	
4	4"	3 5/8"
6	6"	5 5/8"
8		7 5/8"
12		11 5/8"

THE # CHARACTER BELOW THE LINE INDICATES THE HEIGHT OF THE SPECIFIC WALL COMPONENT. THE HEIGHT OF A SPECIFIC WALL COMPONENT. REFER TO THE LEGEND BELOW. THIS SYSTEM IS USED TO DEFINE WALL TYPES: RA THRU RR

NUMERIC CHARACTER	CMU/BRICK HEIGHT
1	9' - 4"
2	10' - 8"
3	12' - 8"
4	16' - 8"
5	14' - 0"

4. IF NO SYMBOL DESIGNATION IS PROVIDED, THE STUD SIZE WILL BE 3 5/8".

5. THE GRAPHIC DESIGNATION IS INCORPORATED FOR PARTITIONS REQUIRED TO BE SMOKE RESISTANT, FIRE RESISTANT, OR BOTH FIRE AND SMOKE RESISTANT. REFER TO NOTE 18.

6. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.

7. ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLAN.

8. SEALANT:
1. FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE/SMOKE FIRE RESISTANT FILL MATERIAL IN
CONJUNCTION WITH AN APPROPRIATE RATED FIRE/SMOKE FIRE STOPPING SYSTEM.
2. NON-RATED PARTITIONS AND NON-RATED SMOKE RESISTANT PARTITIONS SHALL USE ACOUSTICAL SEALANT.

9. INSULATION: - HEAD CONDITIONS AT FLOOR/ROOF DECK
1. FIRE RESISTANCE RATED PARTITIONS SHALL USE MINERAL WOOL INSULATION.
2. NON-RATED PARTITIONS REQUIRING SOUND ATTENUATION SHALL USE SOUND ATTENUATION BLANKETS (SAB).
3. PROVIDE FULL THICKNESS INSULATION INSIDE ALL STUD BOX BEAMS AND HEADERS WHICH OCCUR IN
WALLS WITH SOUND ATTENUATION.

10. REFER TO SPECIFICATIONS FOR MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.

11. FOR PARTITIONS INDICATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO FULL HEIGHT
OF PARTITION UNLESS OTHERWISE INDICATED. FLOOR TRACK TO BE SET IN A CONT BED OF SEALANT.

12. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED
PARTITIONS.

13. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.

14. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND SMOKE RESISTANT RATING SHALLBE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL AND 6' - 0" OC MAX EACH SIDE.

15. REFER TO TOILET ACCESSORIES SHEET AND CASEWORK SHEET FOR MOUNTING DETAIL INFORMATION.

16. REFER TO THE METAL FABRICATIONS DETAILS FOR MF REFERENCES IN PARTITIONS SECTION.

17. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING INFORMATION.

18. GRAPHIC DESIGNATION

	PRIORITY
4 HR FIRE BARRIER	1 HIGHEST
3 HR FIRE BARRIER	2
2 HR SMOKE BARRIER	
2 HR FIRE BARRIER	3
2 HR FIRE BARRIER/SHAFT WALL	
1 HR SMOKE BARRIER	
1 HR FIRE BARRIER	4
1 HR FIRE BARRIER/SHAFT WALL SMOKE PARTITION (NON RATED)	5 LOWEST

19. DO NOT APPLY BULLNOSE BLOCK AT CORNER GUARD LOCATIONS.

20. MASONRY REINFORCEMENT: REFERENCE STRUCTURAL DRAWINGS.

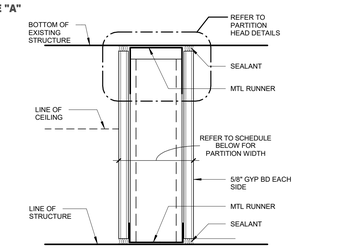
21. HW (HEAD OF WALL) DETAILS DO NOT ALTER PARTITION TYPES NOTED ON PLANS.

NOTE:

1. NOT ALL PARTITION TYPES SHOWN ON THIS SHEET ARE USED ON THIS PROJECT.
2. THE SHADED PORTIONS OF A PARTITION TYPE ARE NOT INCLUDED IN THE SCOPE OF THE WORK.
3. THE UN-SHADED PORTIONS OF ALL PARTITION TYPES ARE INTENDED TO BE IN THE SCOPE OF THE WORK.

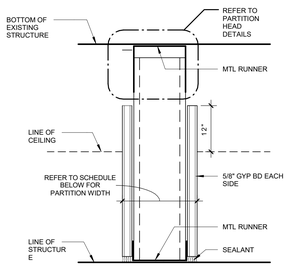
HATCHING:
PARTITION TYPE INCLUDED IN SCOPE OF WORK
PARTITION TYPE NOT INCLUDED IN SCOPE OF WORK

TYPE "A"



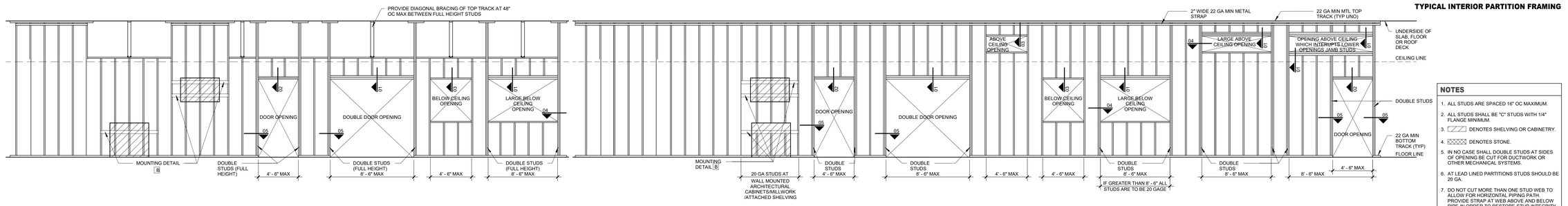
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
A3	A3	3 5/8"	4 7/8"	NON-RATED	N/A	40 / 49 W/3" SAB	

TYPE "XX"



FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	SOUND TRANS CLASS	REMARKS
X3	3 5/8"	4 7/8"	NON-RATED	N/A	N/A	

TYPICAL INTERIOR PARTITION FRAMING



NOTES

1. ALL STUDS ARE SPACED 16" OC MAXIMUM.
2. ALL STUDS SHALL BE "C" STUDS WITH 1/4" FLANGE MINIMUM.
3. DENOTES SHELVING OR CABINETRY.
4. DENOTES STONE.
5. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
6. AT LEAD LINED PARTITIONS STUDS SHOULD BE 20 GA.
7. DO NOT CUT MORE THAN ONE STUD WEB TO ALLOW FOR HORIZONTAL PIPING PATH. PROVIDE STRAP AT WEB ABOVE AND BELOW PIPE IN ORDER TO RESTORE STUD INTEGRITY. STRAP GAUGE TO MATCH STUD GAUGE MIN

ACCESSORY/EQUIPMENT MOUNTING DETAILS

PARTITION FRAMING DETAILS

2 TYPICAL INTERIOR PARTITION FRAMING

1/4" = 1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

AESUS design group — Architecture, Engineering, and, Sustainable Design
1050 E. Southern Ave, Suite #D, Tempe, Arizona 85282, (480) 454-2861

STAMP
STATE OF FLORIDA · DAVID M COMBS · AR98921 · 11.03.2023 · REGISTERED ARCHITECT

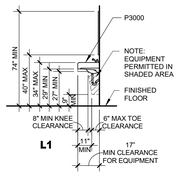
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PARTITION TYPES
Phase: BID SET
Project Title: ADDRESS VIERA SITE DEFICIENCIES
Project Number: 675-23-151
Building Number: -
Approved:
Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date: NOV. 3, 2023
Checked: AESUS
Drawn: AESUS
Drawing Number: AE-103

VA FORM 08 - 6231

11/22/2023 11:50:53 AM
\\192.168.1.20\Jobs\Jobs\23003 VA - Address Viera Site Deficiencies\1a Architectural\Model\675-22-106_Viera Deficiencies_detached.rvt



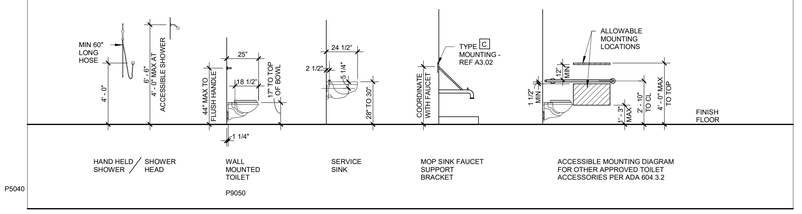
ACCESSIBLE LAVATORY

FRONT APPROACH SECTION

SECTION L1

P5040

PLUMBING FIXTURE MOUNTING DIAGRAM

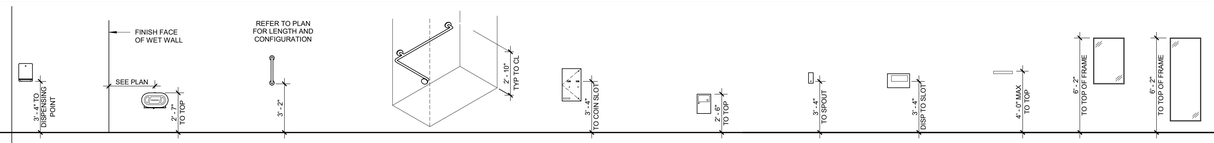


TOILET ACCESSORY MOUNTING DIAGRAM

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

NOTE:

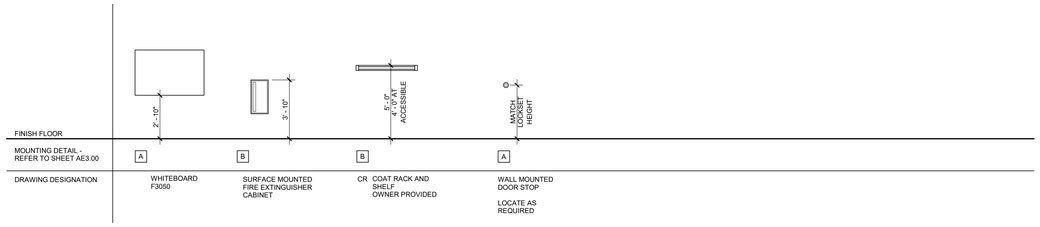
1. ACCESSORIES LISTED MAY HAVE GAPS IN ALPHABETICAL LISTING.
2. ACCESSORIES CAN APPEAR ON FLOOR PLANS OR INTERIOR ELEVATIONS.
3. IF JSN # IS NOT PROVIDED, REFER TO INSTRUCTIONS SHOWN HERE FOR AQUISITION AND INSTALLATION



FINISH FLOOR											
TOILET ACCESSORY TYPE	PAPER TOWEL DISPENSER	TOILET TISSUE DISPENSER	GRAB BAR	TOILET AREA GRAB BAR	SANITARY NAPKIN / TAMPON VENDOR (WOMEN'S AND UNISEX ONLY)	SANITARY NAPKIN TAMPON DISPOSAL (WOMEN'S AND UNISEX ONLY)	SOAP DISPENSER	TOILET SEAT COVER DISPENSER	STAINLESS STEEL SHELF	STAINLESS STEEL FRAMED MIRROR	STAINLESS STEEL FRAMED MIRROR
MOUNTING DETAIL - REFER TO SHEET AE3.00	A	A	C D AT BARIATRIC CONDITIONS ONLY	C D AT BARIATRIC CONDITIONS ONLY	A	A	A	A	B	B	B
DRAWING DESIGNATION	A1 SURFACE MOUNTED	B1 TWIN JUMBO -ROLL SURFACE MOUNTED	E2 18" NON-SLIP FINISH CONTRACTOR PROVIDED AND INSTALLED	E16 42 X 54 NON-SLIP FINISH	F1 SURFACE MOUNTED CONTRACTOR PROVIDED AND INSTALLED	G1 SURFACE MOUNTED	J4 SURFACE MOUNTED	K1 SURFACE MOUNTED CONTRACTOR PROVIDED AND INSTALLED	OA 18"L X 8"D SURFACE MOUNTED SHELF CONTRACTOR PROVIDED AND INSTALLED	R1 24 X 36 WITHOUT SHELF SURFACE MOUNTED	24 X 60 WITHOUT SHELF SURFACE MOUNTED
EQUIPMENT LIST JSN #	A5082	A5200		A5109		A5090	A5075			A1066	A1080

MISCELLANEOUS SPECIALTIES AND EQUIPMENT

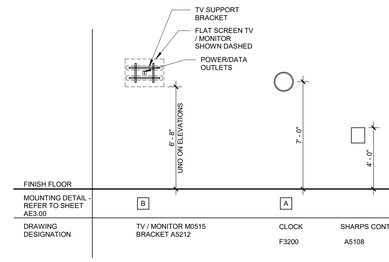
SCALE: 1/4" = 1' - 0"



MOUNTING DETAIL - REFER TO SHEET AE3.00	A	B	B	A
DRAWING DESIGNATION	WHITEBOARD F3050	SURFACE MOUNTED FIRE EXTINGUISHER CABINET	CR COAT RACK AND SHELF OWNER PROVIDED	WALL MOUNTED DOOR STOP LOCATE AS REQUIRED

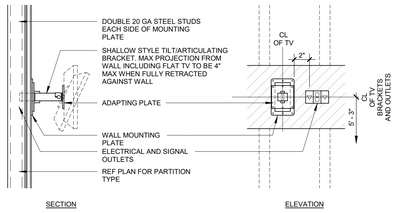
MEDICAL EQUIPMENT MOUNTING DIAGRAM

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



MOUNTING DETAIL - REFER TO SHEET AE3.00	B	A	
DRAWING DESIGNATION	TV / MONITOR M0515 BRACKET A5212	CLOCK F3200	SHARPS CONTAINER A5108

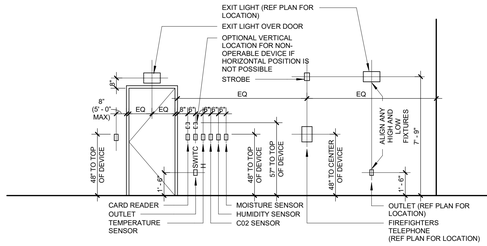
MISCELLANEOUS DETAILS



01 FLAT PANEL TV BRACKET DETAIL

1 1/2" = 1'-0"

DEVICE MOUNTING DIAGRAM



GENERAL NOTES FOR DEVICE MOUNTING

1. REFERENCE SECURITY, MEP, AND ARCHITECTURAL FOR MOUNTING LOCATIONS OF CARD READERS AND OTHER DEVICES.
2. DIMENSIONS SHOWN ARE TO CENTERLINE OR TO EDGE OF FACEPLATE (REFER TO TYPICAL DEVICE ELEVATION.)
3. DEVICES ABOVE COUNTERS SHALL BE MOUNTED IN THE HORIZONTAL POSITION. OTHER DEVICES SHALL BE VERTICAL UNLESS OTHERWISED NOTED.
4. WHERE THERE IS INSUFFICIENT SPACE TO MOUNT ALL DEVICES, DEVICES MAY BE LOCATED VERTICALLY ALIGNED.
5. WHERE MULTIPLE SWITCHES ARE LOCATED ADJACENT TO EACH OTHER, PROVIDE A SINGLE COVER PLATE.
6. ALL DEVICE COVER PLATE COLORS SHOULD BE COORDINATED WITH THE VA SPECIFICATIONS.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

AESUS design group — Architecture, Engineering, and, Sustainable Design
1050 E. Southern Ave, Suite #D, Tempe, Arizona 85282, (480) 454-2861

STAMP

STATE OF FLORIDA — DAVID M COMBS — AR98921 — 11.03.2023 — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TOILET LAYOUTS AND MOUNTING HEIGHTS	Phase: BID SET	Project Title: ADDRESS VIERA SITE DEFICIENCIES	Project Number: 675-23-151
Approved:	Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940		Building Number: -
		Issue Date: NOV. 3, 2023 / Checked: AESUS / Drawn: AESUS	Drawing Number: AE-104

FINISH SCHEDULE

LOCATION					WALLS					
REVISION	ROOM NUMBER	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING	REMARKS
	100	BATHROOM	SC	RB	P-1	P-1	P-1	P-1	ACT	
	101	OFFICE	SC	RB	P-1	P-1	P-1	P-1	GB	
	102	CHILLER BUILDING	TC	EXST	EXST	EXST	EXST	EXST	EXP	

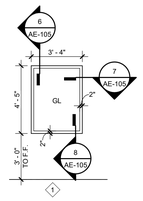
FINISH LEGEND

SC	CONCRETE SEALER, CLEAR OR NATURAL COLOR, SEE SPEC 09 66 0
PAINT:	SHERWIN WILLIAMS PRO-INDUSTRIAL, MULTI- SURFACE ACRYLIC
RB	RUBBER BASE - COLOR TBD
P-1	INTERIOR PAINT - COLOR TBD
EXP	NO CEILING, EXPOSED TO STRUCTURE / DECK
PLY	3/4" A-C PLYWOOD PAINTED GLOSS WHITE PER ISTS
	DOOR & FRAME FINISH TO MATCH FACILITY STANDARD
EXST.	EXISTING TO REMAIN, TYPICAL.
GB	GYPSUM BOARD CEILING PAINTED, SEE TYPICAL DETAILS.
ACT	ACCOUSTICAL CEILING SYSTEM, SEE TYPICAL DETAILS.
TC	TRAFFIC COATING, SEE PLANS AND SPECS.

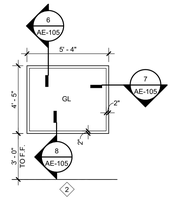
GENERAL FINISH NOTES

1. ALL INTERIOR WALLS TO BE PAINTED P-1 U.N.O.
2. MATERIALS AND PRODUCTS ARE INTENDED TO MATCH EXISTING CAMPUS STANDARD IN COLOR, TEXTURE AND GENERAL FINISH. THIS INCLUDES BUT IS NOT LIMITED TO FLOORING, PAINT, HANDRAILS, SIGNAGE, ETC.
3. COLORS NOT OTHERWISE DEFINED ARE TO BE SELECTED BY THE COR FROM MANUFACTURER'S FULL RANGE OF COLORS.
4. PROVIDE PIGMENT OR COATING AS NECESSARY TO MATCH EXTERIOR COLOR.
5. PROVIDE LIGHT COLORED TPO ROOF MEMBRANE.
6. EXPOSED TO VIEW EXTERIOR FLASHING AND TRIM TO MATCH CAMPUS STANDARD.
7. EXTERIOR DOORS, GATES SHALL MATCH CAMPUS STANDARD COLOR.

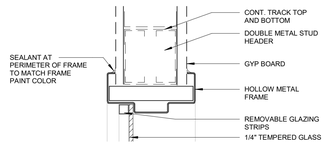
WINDOW TYPES



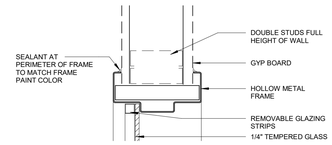
4 WINDOW TYPE 1
1/4" = 1'-0"



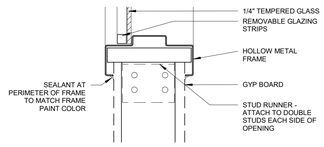
5 WINDOW TYPE 2
1/4" = 1'-0"



6 WINDOW HEAD
3" = 1'-0"



7 WINDOW JAMB
3" = 1'-0"



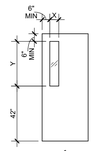
8 WINDOW SILL
3" = 1'-0"

DOOR LEGEND

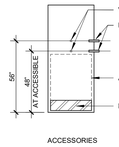
DOOR NOTES

1. CONTRACTORS TO USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.

VISION PANELS, LOUVER TYPES, AND ACCESSORIES



1
NON-RATED
OR
RATED 20/45 MIN



ACCESSORIES

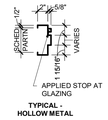
NOTE:
VIEW PORTS AT GUEST ROOMS ARE TO ALLOW VISION FROM THE INSIDE. VIEW PORTS AT MEETING/CONFERENCE ROOMS ARE TO ALLOW VISION FROM THE OUTSIDE.

KICK/ARMOR PLATE LEGEND:
K: KICK PLATE
A: ARMOR PLATE
1. DOOR PUSH SIDE
2. DOOR PULL SIDE
3. BOTH SIDES

EXAMPLE: K1 = PUSH SIDE KICK PLATE

DOOR AND BORROWED LITE FRAME TYPES

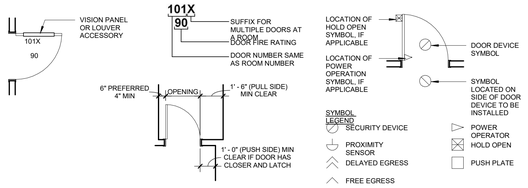
SCALE: 1" = 1' - 0"



TYPICAL - HOLLOW METAL

1

DOOR PLAN DESIGNATION

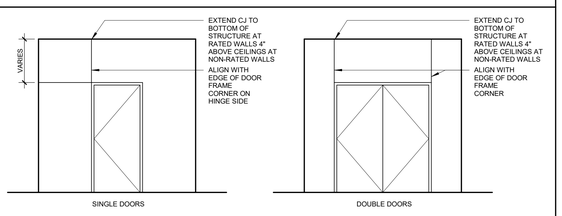


DOOR OPENING LOCATION

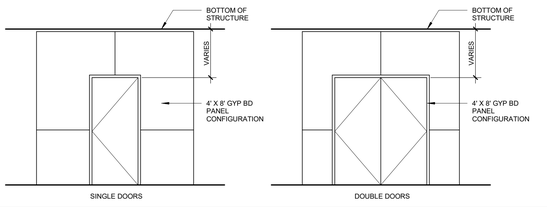
A. DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION, SHALL BE LOCATED AS SHOWN ABOVE.

B. OTHER LOCATIONS SHALL BE ON CENTERLINE OF ROOM OR AS SPECIFICALLY DIMENSIONED.

CONTROL JOINT AT DOOR FRAMES



GYPSUM BD CONFIGURATION AT DOORS

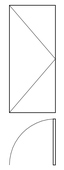


DOOR LEGEND

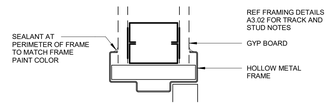
DOOR NOTES

1. CONTRACTORS TO USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.

DOOR TYPES



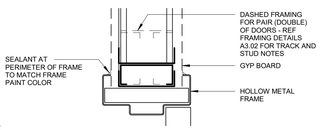
A1
FLUSH
SINGLE
SOLID WOOD



INTERIOR DOOR
2 JAMB DETAIL - HOLLOW METAL
3" = 1'-0"

GENERAL NOTES

REFERENCE FRAMING DETAILS SHEETS A3.02 FOR TRACK AND STUDS NOTES.



INTERIOR DOOR
1 HEAD DETAIL - HOLLOW METAL
3" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	MATERIALS AND FINISHES					DETAILS				VISION PANEL & LOUVER TYPE	HARDWARE
					DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	DOOR RATING	HEAD	JAMB	SILL	Vision_Panel_&_Louver_Type		
LEVEL 01 - LAKEMONT_FP_1															
100	3' - 0"	7' - 0"	A1	1	WOOD	PTD	HM	PTD	N/A	2/-	1/-	-	0	-	HW-2C
101A	3' - 0"	7' - 0"	A1	1	WOOD	PTD	HM	PTD	N/A	2/-	1/-	-	1	1	HW-3

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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Architecture, Engineering, and, Sustainable Design
1050 E. Southern Ave, Suite #D,
Tempe, Arizona 85282, (480) 454-2861

STAMP
STATE OF FLORIDA
DAVID M COMBS
AR98921
11.03.2023
REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	DOOR, SAFETY GLAZING AND LOUVER INFORMATION
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	-
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date	NOV. 3, 2023
Checked	AESUS
Drawn	AESUS
Drawing Number	AE-105

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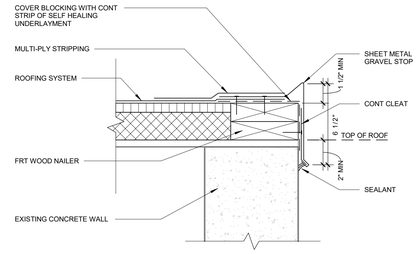
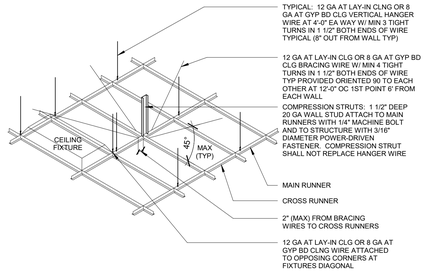
\\192.168.1.20\Jobs\Jobs\23003 VA - Address Viera Site Deficiencies\1a Architectural\Model\675-22-106_Viera Deficiencies_detached.rvt

VA FORM 08 - 6231



1 GRAVEL STOP DETAIL

6" = 1'-0"



NOTES

1. ICBO (INTERNATIONAL COUNCIL OF BUILDING OFFICIALS) EVALUATION REPORT - 4071 GYPSUM WALLBOARD (066). (THIS REPORT HAS THE SAME REQUIREMENTS FOR GYP BD CEILINGS AND LAY-IN CEILING.

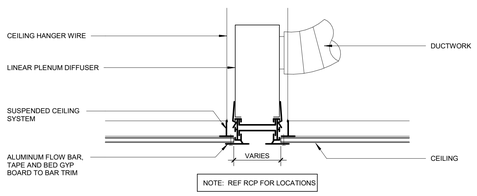
2. ALL LATERAL SUPPORTS MUST BE LOCATED A MIN OF 6" (152mm) FROM HORIZONTAL UNBRACED PIPES AND DUCTWORK.

3. VERTICAL STRUTS FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL LOAD INDUCED BY THE BARRIER WIRES.

4. THE VERTICAL STRUTS AT HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12'-0" (3658mm) OC IN BOTH DIRECTIONS, WITH THE FIRST POINT WITHIN 6'-0" (1830mm) FROM EACH WALL.

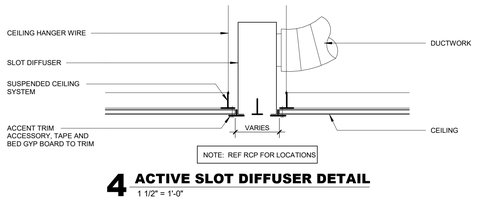
2 CEILING GRID ATTACHMENT FOR SEISMIC CONDITION

1 1/2" = 1'-0"



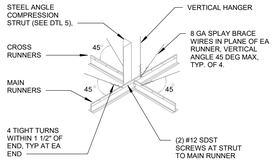
3 ACTIVE LINEAR DIFFUSER DETAIL

1 1/2" = 1'-0"



4 ACTIVE SLOT DIFFUSER DETAIL

1 1/2" = 1'-0"



TYP. SUSPENDED CEILING

SCALE: N.T.S.

DISTANCE FROM CEILING TO STRUC. ABOVE	STRUT SIZE	KL/R < 200
0' TO 5'-0"	2" X 2" X 1/8" STEEL ANGLE	154
5'-0" TO 8'-0"	3" X 3" X 3/16" STEEL ANGLE	164

NOTE:

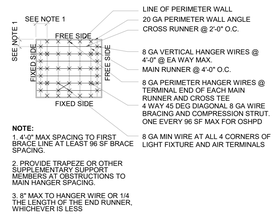
1. COMPRESSION STRUT IS TO BE INSTALLED AT CROSS RUNNER INTERSECTION.

2. DIAGONAL BRACING WIRES ARE TO BE INSTALLED WITHIN 2" OF CROSS RUNNER INTERSECTION.

3. COMPRESSION STRUCT IS NOT TO BE INSTALLED IN PLACE OF VERTICAL HANGER WIRE.

TYP. SUSPENDED CEILING DETAIL

SCALE: NTS



NOTE:

1. 4'-0" MAX SPACING TO FIRST BRACE LINE AT LEAST 96 SF BRACE SPACING.

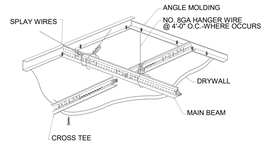
2. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING.

3. 8" MAX TO HANGER WIRE OR 1/4 THE LENGTH OF THE END RUNNER, WHICHEVER IS LESS

TYP. SUSPENDED CEILING PLAN

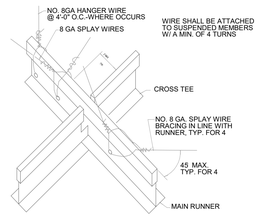
SCALE: N.T.S.

NOTE:
- WIRE SHALL BE ATTACHED TO SUSPENDED MEMBERS W/ A MIN. OF 4 TURNS
- DRYWALL GRID SYSTEM SHALL BE INSTALL PER MANUFACTURES SPECIFICATIONS



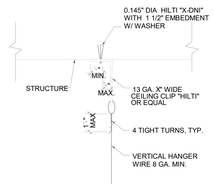
TYP. SUSPENDED CEILING DETAIL

SCALE: NTS



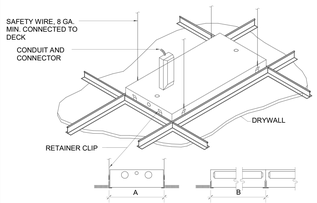
TYP. SUSPENDED CEILING DETAIL

SCALE: NTS



TYP. VERTICAL HANGER WIRE ATTACHMENT

SCALE: N.T.S.



GRID SPACING (CENTER TO CENTER) WIDTH (A): 6", 12", 24", 48"
LENGTH (B): 24", 48"

TYP. FIXTURE SUPPORT

SCALE: N.T.S.

5 SUSPENDED CEILING DETAILS

1" = 1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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Architecture, Engineering, and, Sustainable Design
1050 E. Southern Ave, Suite #D, Tempe, Arizona 85282, (480) 454-2861

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STATE OF FLORIDA — DAVID M COMBS — AR98921 — 11.03.2023 — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CEILING DETAILS	Phase: BID SET
Approved:	Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940

Project Title: ADDRESS VIERA SITE DEFICIENCIES			Project Number: 675-23-151
			Building Number: -
			Drawing Number: AE-106
Issue Date: NOV. 3, 2023	Checked: AESUS	Drawn: AESUS	

I:\192.168.1.20\Jobs\Jobs\23003 VA - Address Viera Site Deficiencies\1a Architectural\Model\675-23-106_Viera Deficiencies_detached.rvt

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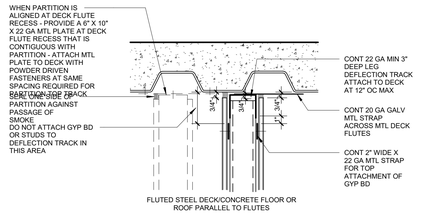
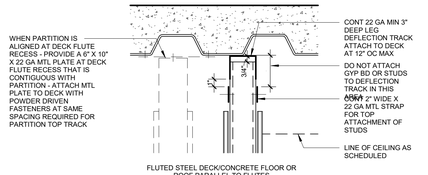
VA FORM 08 - 6231



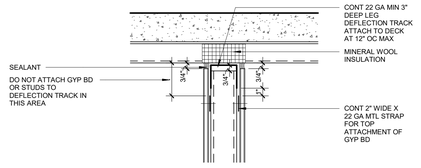
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

NON-RATED OR SMOKE RESISTANT



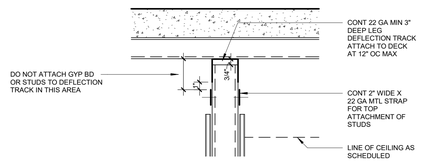
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

NON-RATED



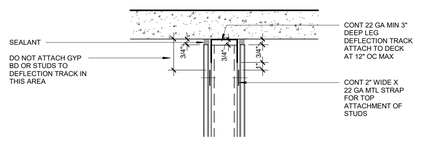
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

NON-RATED OR SMOKE RESISTANT



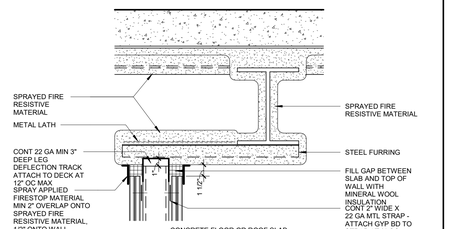
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

NON-RATED



CONCRETE FLOOR OR ROOF

NON-RATED OR SMOKE RESISTANT

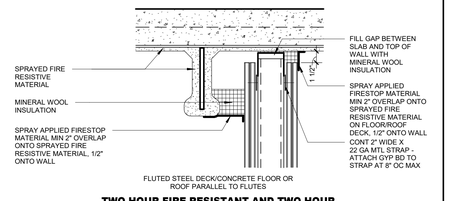


CONCRETE FLOOR OR ROOF SLAB

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0634

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

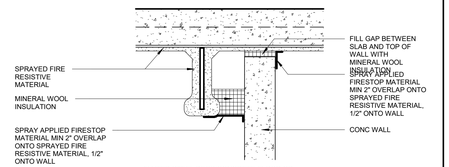


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0377

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

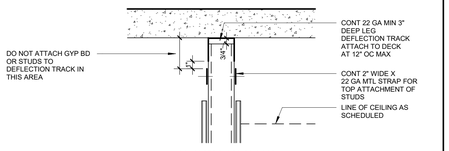


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0378

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

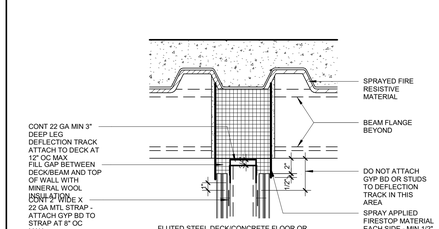


CONCRETE FLOOR OR ROOF

NON-RATED

HEAD OF WALL GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR HEAD OF WALL SLOTTED TRACK OPTIONS FOR METAL STUD WALLS. CONT 2" WIDE X 22 GA METAL STRAP CAN BE DELETED IF OPTIONAL SLOTTED TRACKS ARE SELECTED.

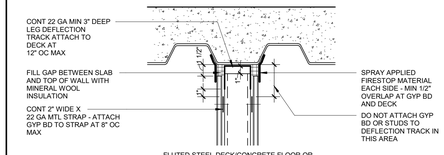


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0218

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

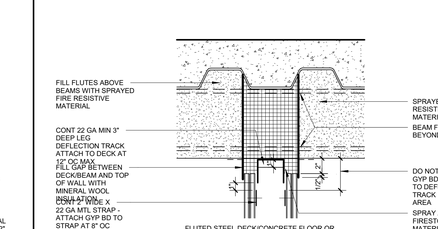


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

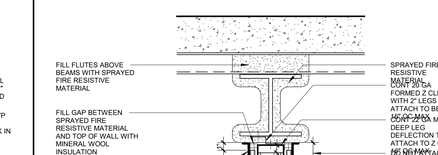


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0299

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

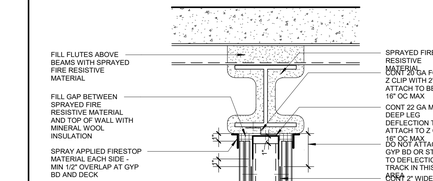


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0252

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

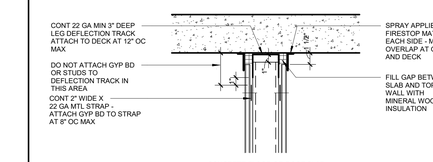


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0252

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

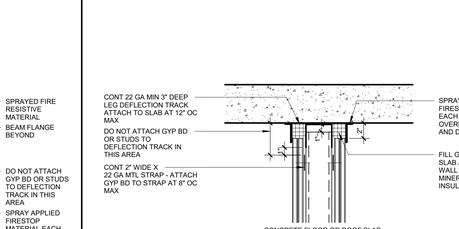


CONCRETE FLOOR OR ROOF SLAB

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0108

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

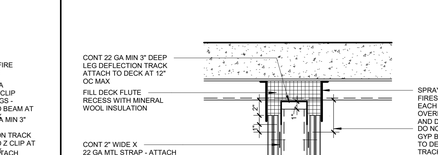


CONCRETE FLOOR OR ROOF SLAB

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0108

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

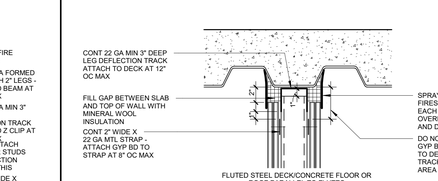


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

TWO HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

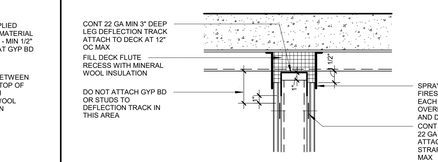


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

TWO HOUR FIRE RESISTANT AND TWO HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS



FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER

UL-HW-D-0107

NOTE: REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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STATE OF FLORIDA — DAVID M COMBS — AR98921 — 11.03.2023 — REGISTERED ARCHITECT

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PARTITION HEAD DETAILS	Phase: BID SET	Project Title: ADDRESS VIERA SITE DEFICIENCIES	Project Number: 675-23-151
Approved:	Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940		Building Number: -
		Issue Date: NOV. 3, 2023 / Checked: AESUS / Drawn: AESUS	Drawing Number: AE-107

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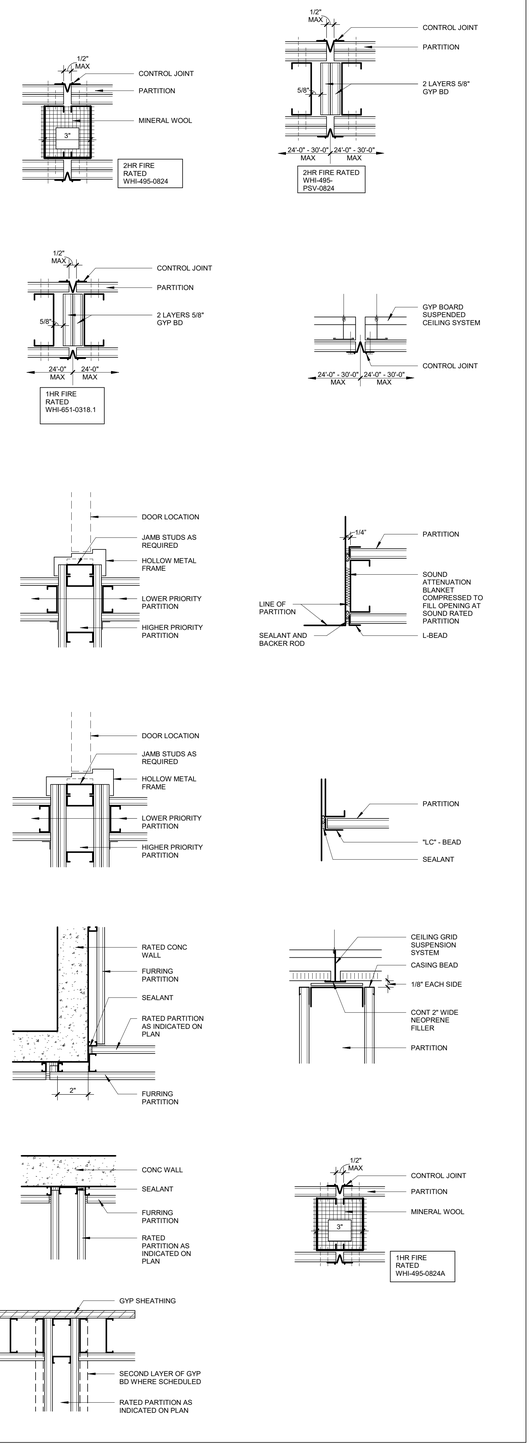
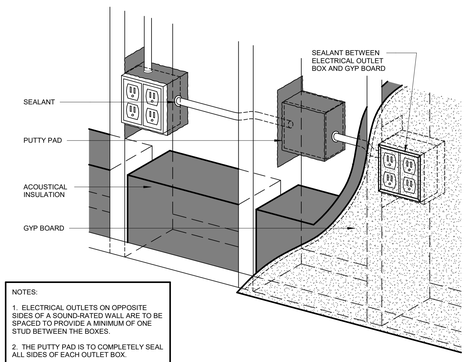
VA FORM 08 - 6231



1 **INTERSECTION AT PARTITION WALL**
3" = 1'-0"

NOTES:

PUTTY PAD MUST BE FIRE RATED IN FIRE RATED PARTITIONS.



NOTES:

1. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF A SOUND-RATED WALL ARE TO BE SPACED TO PROVIDE A MINIMUM OF ONE STUD BETWEEN THE BOXES.
2. THE PUTTY PAD IS TO COMPLETELY SEAL ALL SIDES OF EACH OUTLET BOX.
3. WHERE PARTITIONS ARE SCHEDULED TO BE SOUND RATED PROVIDE ACOUSTICAL PUTTY PAD AT ALL OUTLET LOCATIONS.

2 **ACOUSTICAL PUTTY PAD SOUND ATTENUATION IN INTERIOR PARTITION**
1 1/2" = 1'-0"

Revisions:	Date:

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STATE OF FLORIDA
DAVID M COMBS
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11.03.2023
REGISTERED ARCHITECT

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VA U.S. Department of Veterans Affairs

Drawing Title: GYP BD DETAILS	Phase: BID SET
Approved:	Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940

Project Title: ADDRESS VIERA SITE DEFICIENCIES		Project Number: 675-23-151
		Building Number: -
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STRUCTURAL ABBREVIATIONS

#	NUMBER
&	AND
@	AT
A/E	ARCHITECT / ENGINEER
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISEHD FLOOR
AGG	AGGREGATE
AH, AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT/FP	ANTI-TERRORISM/ FORCE PROTECTION
AWS	AMERICAN WELDING SOCIETY
BET	BETWEEN
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAIL
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL
CD	CONSTRUCTION DOCUMENTS
CE	CARBON EQUIVALENT
CENT	CENTERED
CFMF	COLD-FORMED METAL FRAMING
CFS	COLD-FORMED STEEL
CIP	CAST IN PLACE
CJ	CONTROL JOINT/CEILING JOIST
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CONTRACTING OFFICER
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECT, CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CORNER, CONTRACTING OFFICER'S REPRESENTATIVE
CTR	CENTER
CU FT	CUBIC FEET
D	DEEP, DEPTH
DAS	DEFORMED ANCHOR STUD
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DIA, Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DL	DEAD LOAD
DO	DITTO
DT	DRAG TRUSS
DTL	DETAIL
DWG(S)	DRAWINGS
DWL	DOWEL
EA	EACH
EF	EACH FACE
ELEC	ELECTRICAL
ELEV	ELEVATION
EN	EDGE NAIL
EOR	ENGINEER OF RECORD
EQ, =	EQUAL, EQUALS
EQN	EQUATION
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERNAL, EXTERIOR
FF	FAR FACE, FINISH FACE
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FJ	FLOOR JOIST
FN	FIELD NAIL
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRMG	FRAMING
FS	FAR SIDE
FT, '	FOOT
FTG	FOOTING
Fy	YIELD STRESS
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLB	GLUED LAMINATED BEAM
GT	GIRDER TRUSS
GUSS	GUSSET
GYP BD	GYPSUM BOARD
HAS	HEADED ANCHOR STUD
HD	HOLD DOWN
HDR	HEADER
HGR	HANGER
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATNG/ VENTILATING/ AIR CONDITIONING
I	MOMENT OF INERTIA
IBC	INTERNATIONAL BUILDING CODE
ICF	INSULATED CONCRETE FORM
ID	INSIDE DIAMETER
IN, "	INCH

INCL	INCLUDE
INFO	INFORMATION
INS	INSULATED, INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K, KIPS	THOUSAND POUNDS
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
L	LENGTH, ANGLE
LB	POUND
LF	LINEAR FOOT
LG	LONG, LIGHT GUAGE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLR	ROOF LIVE LOAD
LLV	LONG LEG VERTICAL
LOC	LOCATE, LOCATION
LONG	LONGITUDINAL
LTE	TENSION EMBEDMENT
LTS	LAP TENSION SPLICE
LW	LIGHT WEIGHT
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MF	MOMENT FRAM
MFG	MANUFACTURING
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODIFY, MODIFIED
MPH	MILES PER HOUR
MRF	MANUFACTURER
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND, OVERHEAD
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OWSJ	OPEN WEB STEEL JOIST
P/C	PIN CONNECTED
PAF	POWDER ACCUATED FASTENER
PAR	PARALLEL
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERIM	PERIMETER
PL	PLATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED, POINT, PRETENSIONED
REINF	REINFORCING, REINFORCED
REQ	REQUIRED
RET	RETURN, RETAINING
REV	REVISION, REVISED
RF	ROOF
RFT	RAFTERS
RS	ROUGH SAWN
RT	ROOF TRUSS
S	SECTION MODULUS
SC	SLIP CRITICAL
SCHED	SCHEDULE
SDC	SEISMIC DESIGN CATEGORY
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SEIS	SEISMIC
SEOR	STRUCTURAL ENGINEER OF RECORD
SEP	SEPARATION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SL	SNOW LOAD
SMS	SHEET METAL SCREW
SPEC(S)	SPECIFICATION(S)
SPRT	SUPPORT
SQ	SQUARE
SS	STAINLESS STEEL
ST	SNUG TIGHT
STD	STANDARD
STIF/STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL, STRUCTURE
SUSP	SUSPENDED
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
TGB	TOP OF GRADE BEAM
THK	THICK, THICKNESS
TL	TOTAL LOAD
TN	TOE NAIL
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UFC	UNITED FACILITES CRITERIA
UON	UNLESS OTHERWISE NOTED
V	SHEAR
VB	VAPOR BARRIER
VERT	VERTICAL
VIF	VIF
W	WIDTH, WEST, WIDE FLANGE
W/	WITH
W/C	WATER CONTENT
W/O	WITHOUT
WL	WIND LOAD
WPT	WORKING POINT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
x, *	BY, TIMES

STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET NAME
S-001	STRUCTURAL NOTES, DESIGN CRITERIA & ABBREVIATIONS
S-101	STRUCTURAL PLANS AND DETAILS

CODE AND DESIGN CRITERIA

1. BUILDING CODES:
   a. LATEST EDITION OF U.S. DEPARTMENT OF VETERANS AFFAIRS DESIGN GUIDES, STANDARDS AND MANUALS
   b. INTERNATIONAL BUILDING CODE (IBC) - 2021
   c. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), STEEL CONSTRUCTION MANUAL - 15th EDITION
   d. AISC, SEISMIC DESIGN MANUAL - 3rd EDITION
   e. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7, MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES - 2016
   f. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - 2019
   g. AMERICAN WOOD COUNCIL (AWC), NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION - 2018
   h. AWC, NDS SUPPLEMENT - 2018
   i. AWC, NDS SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (SDPWS) - 2018
2. DESIGN CRITERIA
   a. RISK CATEGORY: I
3. DESIGN LOADS
   a. ROOF
      1. SUPERIMPOSED DEAD LOAD: 8 PSF
      2. LIVE LOAD: 20 PSF
4. WIND DESIGN DATA
   a. BASIC WIND SPEED: 165 MPH (ULTIMATE) 128 MPH (ALLOWABLE)
   b. EXPOSURE: C
   c. SURFACE ROUGHNESS: C
   d. INTERNAL PRESSURE COEFFICIENT (GCpi): ± 0.55
   e. DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING DESIGNED BY THE CONTRACTOR:
      1. LISTED PRESSURES ARE INCLUDED FOR REFERENCE ONLY BASED ON A TRIBUTARY AREA OF 10 SF. FINAL CALCULATIONS SHALL BE COMPLETED BY THE CONTRACTOR.
      2. EDGE ZONE a = 3'
      3. WALL PRESSURES
         1. INTERIOR ZONE (4) = -77 PSF, +73 PSF
         2. CORNER ZONE (5) = -91 PSF, +73 PSF
      4. ROOF PRESSURES
         1. POSITIVE ALL ZONES = 43 PSF
         2. INTERIOR ZONE 1 = -113 PSF
         3. EDGE ZONE 2 = -143 PSF
         4. CORNER ZONE 3 = -189 PSF
5. SEISMIC DESIGN DATA
   a. ANALYSIS PROCEDURE: INDEX FORCE ANALYSIS
   b. SEISMIC IMPORTANCE FACTOR (Ie): 1.0
   c. Ss: 0.057g
   d. S1: 0.032g
   e. SITE CLASS: D
   f. Sds: 0.061g
   g. Sd1: 0.051g
   h. SEISMIC DESIGN CATEGORY: A
   i. SEISMIC FORCE RESISTING SYSTEM: ORDINARY PRECAST SHEAR WALLS
      1. RESPONSE MODIFICATION FACTOR (R): 3
      2. OVERSTRENGTH FACTOR (Ω): 2.5
      3. DEFLECTION AMPLIFICATION FACTOR (C_d): 3
      4. SEISMIC RESPONSE COEFFICIENT (C_s) = 0.015
      5. BASE SHEAR = .010*W
6. RAIN DESIGN DATA
   a. DESIGN RAIN INTENSITY = 10.32 INCHES PER HOUR

GENERAL NOTES

1. THE PROJECT SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS, AND EXISTING CONDITIONS/DIMENSIONS. THE CONTRACTOR SHALL NOTIFY THE COR OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK.
3. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND MEANS NECESSARY TO PROTECT PERSONS AND STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING, ETC. OBSERVATION BY THE ARCHITECT, ENGINEER OR COR DOES NOT INCLUDE REVIEW OF THESE MEASURES.
4. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL WORK NOT DETAILED OR NOTED SHALL BE CONSTRUCTED IN ACCORDANCE WITH OTHER SIMILAR WORK SHOWN ON THE DRAWINGS AND TYPICAL DETAILS.
6. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
7. NO PIPES OR DUCTS SHALL BE PLACED IN OR PENETRATE STRUCTURAL MEMBERS UNLESS SPECIFICALLY DESIGNED AND DETAILED.
8. STRUCTURAL DRAWINGS TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS HEREIN.
9. REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   a. SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
   b. SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, IF NOT DIMENSIONED ON THESE DRAWINGS.
   c. FLOOR AND ROOF FINISHES.
   d. DIMENSIONS NOT SHOWN ON STRUCT DWGS.
10. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
    a. PIPE RUNS, SLEEVES, HANGERS, EQUIPMENT, SLAB OPENINGS, NOT SHOWN OR NOTED ON STRUCTURAL DRAWINGS
    b. ELECTRICAL CONDUIT, BOXES, OUTLETS.
    c. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, AND PLUMBING FIXTURES.
11. ASTM REFERENCES ARE FOR LATEST REVISIONS AND ISSUE, UON.
12. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON STRUCTURAL FRAME SUCH THAT THE LOADING DOES NOT EXCEED THE DESIGN LIVE LOADS. PROVIDE SHORING AND BRACING WHERE DESIGN STRENGTH HAS NOT BEEN ATTAINED OR STRUCTURE IS NOT COMPLETE.
13. THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBILITY FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACT OF OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
14. VERIFY ALL OPENING DIMENSIONS THROUGH FLOOR, ROOF, AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
15. NOTIFY ARCHITECT OF ANY CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE.
16. NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY.
17. THE CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
    a. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.
18. SUBMIT A DIMENSIONED DRAWING OF ALL NEW OPENINGS THROUGH EXISTING STRUCTURE AND SECURE APPROVAL PRIOR TO CUTTING. NEW OPENINGS MAY BE EITHER SHOWN ON THE CONTRACT DOCUMENTS OR PROPOSED BY THE CONTRACTOR. DRAWING SHALL SHOW:
    a. VERTICAL & HORIZONTAL LOCATION AND SIZE OF NEW OPENING(S)
    b. ALL EXISTING OPENINGS IN THE VICINITY OF THE NEW OPENING(S)
    c. ALL EXISTING STRUCTURE (BEAMS, COLUMNS, SLABS, WALLS, ETC) IN THE VICINITY OF THE NEW OPENING(S)
    d. ALL REINFORCING BAR SIZES AND POSITIONS (LAYOUT LOCATION AND DEPTH) CONFLICTING WITH OR IN THE VICINITY OF THE NEW OPENING(S).

SUBMITTAL NOTES

1. SEE THE PROJECT SPECIFICATIONS FOR DETAILED REQUIREMENTS.
2. SUBMITTALS SHALL NOT CONTAIN SUBSTITUTION REQUESTS WITHOUT PRIOR AUTHORIZATION. SUBSTITUTION REQUESTS ARE FOR CONTRACTOR'S CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF THEY CHOOSE TO SUBSTITUTE AND SHALL COORDINATE ALL DETAILS. COST OF ADDITIONAL FIELD AND OFFICE WORK NECESSITATED BY REQUESTS BY THE CONTRACTOR FOR A SUBSTITUTION REQUEST OR DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
3. DELEGATED DESIGN SUBMITTALS:
   a. THE CONTRACTOR SHALL EMPLOY OR RETAIN A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN AND DETAIL DELEGATED DESIGN ITEMS TO MEET THE PERFORMANCE AND DESIGN CRITERIA ESTABLISHED AS PART OF THE BASE BUILDING STRUCTURE. DELEGATED DESIGN ITEMS INCLUDE:
      1. STORAGE GATE
      2. MARQUEE SIGNAGE
      3. ANCHORAGE, BRACING AND ATTACHMENT OF REQUIRED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, AND OTHER EQUIPMENT AND SYSTEMS

POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS BASIS OF DESIGN:

POST-INSTALLED ANCHORS

TYPE	USE	ANCHOR
ADHESIVE ANCHOR:		
	CONCRETE:	HILTI HIT-RE 500 V3
MECHANICAL ANCHORS:		
	SCREW ANCHOR:	HILTI KWIK HUS-EZ
	EXPANSION ANCHOR:	HILTI KWIK BOLT TZ2

2. CONTRACTOR SHALL PROVIDED ENGINEERING BACKUP FOR ANY ANCHOR SUBSTITUTION REQUEST OR COMPENSATE CALIBRE TO PERFORM ENGINEERING VALIDATION THAT SUBSTITUTED ANCHOR IS ACCEPTABLE.
3. PROOF TENSION TEST FIRST 3 ADHESIVE ANCHORS AND 1% OF TOTAL ANCHORS PER ASTM E488. TEST 10% TOTAL OF OVERHEAD ADHESIVE ANCHORS.
4. TORQUE TEST 100% OF EXPANSION, SLEEVE, AND SCREW ANCHORS TO 100% OF INSTALLATION TORQUE SHOWN IN PRODUCT ICC REPORT.
5. INSTALL ANCHORS IN ACCORDANCE WITH CONTRACT DOCUMENTS AND THE CURRENT MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. LOCATE ,THROUGH NON-DESTRUCTIVE MEANS, AND AVOID ALL EXISTING REINFORCING PRIOR TO INSTALLATION OF ANCHORS. IF EXISTING LAYOUT CONFLICTS WITH PROPOSED ANCHORS, CONTACT EOR FOR REVISED LAYOUT.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (LATEST EDITION AND SUPPLEMENTS).

STEEL SHAPES	ASTM REQUIREMENTS
WIDE FLANGE SHAPES	A992
CHANNELS, ANGLES, PLATES, AND BARS	A36, UON
PIPE	A53 GRADE B
HSS	ASTM A500 GRADE C
HAS	A108
DAS	A1064
BOLTS	F3125-TYPE A325
ANCHOR RODS	F1554 GR 55

2. CONNECTING OR SPLICING OF STRUCTURAL STEEL NOT SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE SEOR.
3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR REVIEW BEFORE FABRICATION. SHOP DRAWINGS SHALL SHOW THE ERECTION PROCEDURES AND DETAILS.
4. SEE SPECIFICATIONS FOR FINISH / PAINTING REQUIREMENTS FOR STRUCTURAL STEEL SURFACES. VERIFY WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. WELDED JOINTS SHALL CONFORM TO THE PRE-QUALIFIED JOINT DETAILS AS INDICATED IN THE STRUCTURAL WELDING CODE (AWS D1.1) BY THE AMERICAN WELDING SOCIETY.
6. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR. WELDING RODS TO BE LOW HYDROGEN TYPE, E70.
7. ALL GROOVE WELDS TO BE FULL PENETRATION, UON.
8. ALL FILLET WELDS TO BE 5/16", CONTINUOUS, UON.
9. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM PER AISC SECTION J2.1b AND J2.2b, UNLESS A LARGER SIZE IS NOTED.
10. WELDS SHOWN AS FIELD WELDS MUST BE MADE IN THE FIELD UNLESS A SUBSTITUTION REQUEST IS MADE. ALL OTHER WELDS MAY BE MADE IN SHOP OR FIELD AT CONTRACTOR'S OPTION.
11. EXCEPT AS SUBSEQUENTLY NOTED, HIGH STRENGTH BOLTS NEED NOT BE TIGHTENED BEYOND THE SNUG-TIGHT CONDITION, AS DEFINED IN SECTION 8.(c) OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING TYPE A325 OR A490 BOLTS. FOR CONNECTIONS SUBJECT TO DIRECT TENSION, CONNECTIONS FOR BRACED FRAMES, AND OTHER CONNECTIONS SHOWN OR NOTED ON THE PLANS AS SLIP CRITICAL (SC) OR FULLY TENSIONED, BOLTS SHALL BE TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SECTION 8.(d) AND TO THE MINIMUM TENSION SPECIFIED IN SECTION 8.(d), TABLE 4.
12. DETAILS INDICATED ON DRAWINGS DO NOT SHOW ERECTION AIDS. PROVIDE ERECTION AIDS AS REQUIRED AND REMOVE THEM AFTER WORK IS COMPLETE.
13. WHERE NO CAMBER IS INDICATED, FABRICATE BEAMS SO THAT ROLLING CAMBER IS UPWARD AFTER ERECTION.
14. FOR STEEL MEMBERS AND EMBEDMENTS EXPOSED TO WEATHER OR HIGH HUMIDITY ENVIRONMENTS, PROVIDE HOT-DIPPED GALVANIZED FINISH OR APPROVED ZINC RICH EXTERIOR COATING SYSTEM.
15. PROVIDE HOLES IN ALL STEEL ELEMENTS AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS ADDED SHALL BE 1 1/8"Ø MAX AND GROUND SMOOTH.

STEEL DECK NOTES

1. THE STEEL DECK SHALL BE THE TYPE AND GAUGE AS CALLED FOR ON DRAWINGS. DECK AND ALL ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM STANDARDS AS SHOWN BELOW. GALVANIZED DECK SHALL BE COATED IN ACCORDANCE WITH ASTM A924 WITH A MINIMUM G60 COATING AS DEFINED IN ASTM A653.
   a. GALVANIZED DECK: ASTM A653, GRADE 50 (MIN)
2. STEEL ROOF DECK UNITS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, UON.
3. MINIMUM BEARING OF STEEL DECK ON SUPPORTS SHALL BE 4" AT INTERIOR SUPPORTS AND 2" AT EXTERIOR SUPPORTS UON.
4. SHEETS SHALL BE ATTACHED TO ALL SUPPORTING STEEL MEMBERS AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. UPON COMPLETION OF ERECTION, ALL WELDS ON STEEL DECK AREAS EXPOSED TO WEATHER SHALL BE DE-SLAGGED, CLEANED AND TOUCHED-UP WITH A ZINC RICH PRIMER.

EXISTING BUILDING DEMOLITION NOTES

1. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND THE INTEGRITY AND STABILITY OF THE EXISTING STRUCTURE DURING DEMOLITION. THE CONTRACTOR SHALL PROVIDE SHORING IN REQUIRED LOCATIONS WHERE EXISTING STRUCTURE TO REMAIN WILL BE AFFECTED BY DEMOLITION ACTIVITIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY STRUCTURE DAMAGED DURING THE DEMOLITION PROCESS. THE REPAIR WORK SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. COSTS FOR THESE REPAIRS AND ENGINEERING SHALL BE BORNE BY THE CONTRACTOR.
3. ALL EXISTING FRAMING SHOWN IS "FOR REFERENCE," BASED ON THE PROVIDED AS-BUILT DRAWINGS OR SITE ACCESS. CONTRACTOR TO FIELD VERIFY ALL ELEMENTS AND MORE DETAILED LOCATIONS. IMMEDIATELY NOTIFY DESIGN TEAM OF INCONSISTENCIES WITH EXISTING CONDITIONS VERSES THE CONTRACT DOCUMENTS.
4. DO NOT REMOVE MORE OF THE EXISTING STRUCTURE THAN SHOWN. DO NOT DAMAGE, MAR, CUT, OR DEFACE THE REMAINING STRUCTURE OR MATERIALS TO BE RE-USED.
5. FOR LARGER OPENINGS IN CONCRETE STRUCTURES, CORE DRILL CORNERS. DO NOT OVERCUT CORNERS.

QUALITY ASSURANCE PLAN AND STATEMENT OF SPECIAL INSPECTION NOTES

1. SPECIAL INSPECTIONS FOR THIS PROJECT ARE REQUIRED PER THE 2018 INTERNATIONAL BUILDING CODE CHAPTER 17, SECTION 1704 AND 1705. SEE PROJECT SPECIFICATIONS AND STATEMENT OF SPECIAL INSPECTIONS BELOW FOR SPECIFIED REQUIREMENTS.
2. THE OWNER SHALL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY TO PERFORM SPECIAL INSPECTION SERVICES FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES. SPECIAL INSPECTORS' INSPECTIONS ARE IN ADDITION TO ANY INSPECTION PERFORMED BY THE AUTHORITY HAVING JURISDICTION.
3. THE SPECIAL INSPECTOR OR INSPECTION AGENCY RETAINED FOR CONDUCTING INSPECTIONS SHALL NOT BE EMPLOYED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR, UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
4. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING:
   a. SPECIAL INSPECTION FOR WIND (IBC 1705.11)
   b. STEEL CONSTRUCTION (IBC 1705.2, AISC 360-16)
      1. WELDING
      2. HIGH STRENGTH BOLTS
      3. STEEL JOIST AND JOIST GIRDERS
   c. STEEL DECK (ANSI-SDI-QAQC-2017)
   d. POST-INSTALLED ANCHORS
   e. ANCHORAGE OF PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT (IBC 1705.12.6)
5. SEE INSPECTION TABLES AND REFERENCED DOCUMENTS FOR MORE IN-DEPTH INSPECTION REQUIREMENTS.
   a. 'O' = OBSERVE, INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS
   b. 'P' = PERFORM, INSPECTOR SHALL PERFORM TASKS FOR EACH MEMBER
6. FOR SHOP FABRICATED MEMBERS AND ASSEMBLIES, INSPECTIONS SHALL OCCUR UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION OR HAS A CURRENT ICC-ES EVALUATION REPORT.
   a. AT COMPLETION OF FABRICATION BY AN APPROVED FABRICATOR, THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE THAT THE WORK WAS COMPLETED IN COMPLIANCE WITH CONTRACT DOCUMENTS.
7. THE SPECIAL INSPECTOR FOR EACH MATERIAL SHALL SUBMIT SPECIAL INSPECTOR QUALIFICATIONS TO THE AUTHORITY HAVING JURISDICTION PRIOR TO START OF WORK
8. A FINAL REPORT OF SPECIAL INSPECTIONS, DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, INCLUDING TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS, SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION STATING THAT THE WORK WAS COMPLETED IN SUBSTANTIAL CONFORMANCE TO THE APPROVED PLANS, SPECIFICATIONS, AND THE APPLICABLE PROVISIONS OF THE CODE. ANY WORK NOT IN COMPLIANCE SHALL BE DESCRIBED IN THE REPORT.
9. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING THE WORK WITH THE INSPECTOR (WITH UPDATES AS NEEDED) TO FACILITATE PROPER INSPECTION PER THE CODE. CONTRACTOR SHALL KEEP WORK EXPOSED AND ACCESSIBLE UNTIL REQUIRED SPECIAL INSPECTIONS ARE COMPLETE. ANY COSTS TO RE-EXPOSE AREAS NOT INSPECTED SHALL BE BORNE BY THE CONTRACTOR.
10. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. INSPECTOR SHALL SUBMIT TIMELY REPORTS OF NON-CONFORMANCE TO SEOR.
11. STRUCTURAL OBSERVATION BY THE ENGINEER DOES NOT CONSTITUTE SPECIAL INSPECTIONS.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL - REFERENCE 2021 IBC 1705.2 INSPECTION TASKS PRIOR TO WELDING - REFERENCE AISC 360-16 SPECIFICATION, TABLE N5.4-1

INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	PERFORM	OBSERVE
WPS AVAILABLE	PERFORM	OBSERVE
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	PERFORM	PERFORM
MATERIAL IDENTIFICATION (TYPE / GRADE)	OBSERVE	OBSERVE
WELDER IDENTIFICATION SYSTEM	OBSERVE	OBSERVE
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	OBSERVE	OBSERVE
FIT-UP OF CJP GROVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)	PERFORM	OBSERVE
CONFIGURATION AND FINISH OF ACCESS HOLES	OBSERVE	OBSERVE
FIT-UP OF FILLET WELDS	OBSERVE	OBSERVE
CHECK WELDING EQUIPMENT	OBSERVE	-

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL - REFERENCE 2021 IBC 1705.2 INSPECTION TASKS DURING WELDING - REFERENCE AISC 360-16 SPECIFICATION, TABLE N5.4-2

INSPECTION TASKS DURING WELDING	QC	QA
CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	OBSERVE
NO WELDING OVER CRACKED TACK WELDS	OBSERVE	OBSERVE
ENVIRONMENTAL CONDITIONS	OBSERVE	OBSERVE
WPS FOLLOWED	OBSERVE	OBSERVE
WELDING TECHNIQUES	OBSERVE	OBSERVE
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	PERFORM	PERFORM

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL - REFERENCE 2021 IBC 1705.2 INSPECTION TASKS AFTER WELDING - REFERENCE AISC 360-16 SPECIFICATION, TABLE N5.4-3

INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED	OBSERVE	OBSERVE
SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM	PERFORM
WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	PERFORM
ARC STRIKES	PERFORM	PERFORM
K-AREA	PERFORM	PERFORM
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	PERFORM	PERFORM
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	PERFORM	PERFORM
REPAIR ACTIVES	PERFORM	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERFORM	PERFORM
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF EOR	OBSERVE	OBSERVE

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL - REFERENCE 2021 IBC 1705.2 INSPECTION TASKS PRIOR TO BOLTING - REFERENCE AISC 360-16 SPECIFICATION, TABLE N5.6-1

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	OBSERVE	PERFORM
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE	PERFORM
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL	OBSERVE	OBSERVE
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	OBSERVE
CONNECTION ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITIONS AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	OBSERVE	OBSERVE
PRE-INSTALLATION VERIFICATION TESTING	PERFORM	OBSERVE
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	OBSERVE	OBSERVE

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL - REFERENCE 2021 IBC 1705.2 INSPECTION TASKS DURING BOLTING - REFERENCE AISC 360-16 SPECIFICATION, TABLE N5.6-2

INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	OBSERVE	OBSERVE
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION	OBSERVE	OBSERVE
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	OBSERVE	OBSERVE
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARDS THE FREE EDGES	OBSERVE	OBSERVE

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL - REFERENCE 2021 IBC 1705.2 INSPECTION TASKS AFTER BOLTING - REFERENCE AISC 360-16 SPECIFICATION, TABLE N5.6-3

INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM	PERFORM

DECK QUALITY ASSURANCE TABLES (SDI TABLE 1.1 THRU 1.8)

TYPE	QA
INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT	
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES AND BASE METAL THICKNESS	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	PERFORM
INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT	
TYPE	**QA**
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	PERFORM
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	PERFORM
INSPECTION OR EXECUTION TASKS PRIOR TO WELDING	
TYPE	**QA**
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	OBSERVE
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	OBSERVE
MATERIAL IDENTIFICATION (TYPE / GRADE)	OBSERVE
CHECK WELDING EQUIPMENT	OBSERVE
INSPECTION OR EXECUTION TASKS DURING WELDING	
TYPE	**QA**
USE OF QUALIFIED WELDERS	OBSERVE
CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE
ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE AND TEMPERATURE)	OBSERVE
WPS FOLLOWED	OBSERVE
INSPECTION OR EXECUTION TASKS AFTER WELDING	
	QA
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP AND PERIMETER WELDS.	PERFORM
WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM
VERIFY REPAIR ACTIVITIES	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	PERFORM
INSPECTION OR EXECUTION TASKS TO MECHANICAL FASTENING	
TYPE	**QA**
MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	OBSERVE
PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	OBSERVE
PROPER STORAGE FOR MECHANICAL FASTENERS	OBSERVE
INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING	
TYPE	**QA**
FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE
INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING	
TYPE	**QA**
CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT FASTENERS	PERFORM
CHECK SPACING, TYPE AND INSTALLATION OF SIDELAP FASTENERS	PERFORM
CHECK SPACING, TYPE AND INSTALLATION OF PERIMETER FASTENERS	PERFORM
VERIFY REPAIR ACTIVITIES	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	PERFORM

POST-INSTALLED ANCHORS / REINFORCING STEEL SPECIAL INSPECTIONS REFERENCE INDIVIDUAL ANCHOR - ICC-ES REPORT

TASKS	PERIODIC	CONTINUOUS
PRIOR TO START OF WORK REVIEW CONTRACTOR'S INSTALLATION PROCEDURE	-	X
PRIOR TO INSTALLATION OF ANCHOR VERIFY TYPE, DIAMETER, LENGTH, FINISH AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY. VERIFY MAXIMUM IMPACT WRENCH TORQUE RATING FOR SCREW ANCHORS	X	-
DURING INSTALLATION OF ANCHOR VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING	-	X
AFTER INSTALLATION OF ATTACHED ASSEMBLY VERIFY NUMBER, EDGE DISTANCES AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE	-	X
AFTER INSTALLED TORQUE TEST	-	X
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE		
PRIOR TO START OF WORK REVIEW CONTRACTOR'S INSTALLATION PROCEDURE	-	X
PRIOR TO INSTALLATION OF ANCHOR VERIFY TYPE, DIAMETER, LENGTH, FINISH AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY. VERIFY MAXIMUM IMPACT WRENCH TORQUE RATING FOR SCREW ANCHORS	X	-
DURING INSTALLATION OF ANCHOR VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING	-	X
AFTER INSTALLATION OF ATTACHED ASSEMBLY VERIFY NUMBER, EDGE DISTANCES AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE	-	X
CURE TIME	-	X
AFTER INSTALLED TENSION TEST PER ASTM E488	X	-

Revisions:	Date:

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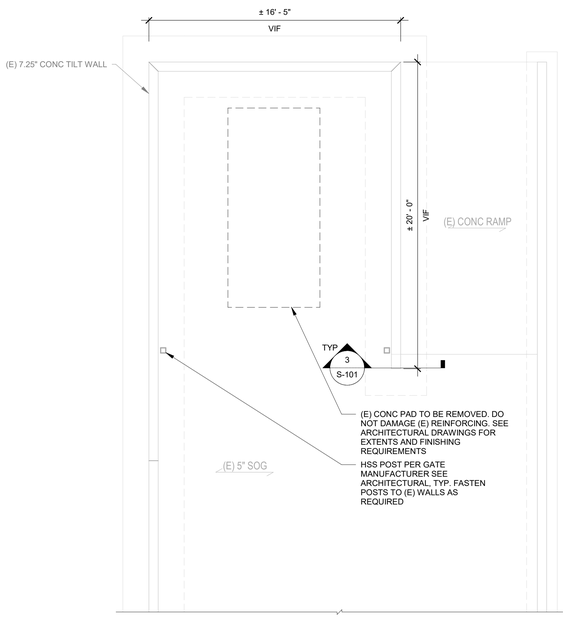
No. 95251
11/3/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

Drawing Title: STRUCTURAL NOTES, DESIGN CRITERIA & ABBREVIATIONS
Approved:
Phase: BID SET
Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Project Title: ADDRESS VIERA SITE DEFICIENCIES
Issue Date: NOV. 3, 2023 | Checked: ES | Drawn: JTB
Project Number: 675-23-151
Building Number:
Drawing Number: S-001

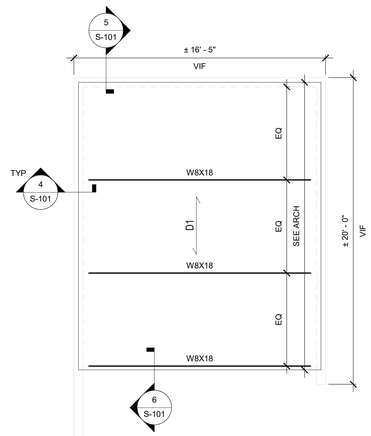


1 FIRST FLOOR PLAN

1/4" = 1'-0"

FIRST FLOOR NOTES

1. SEE GENERAL NOTES, SPECIFICATIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS

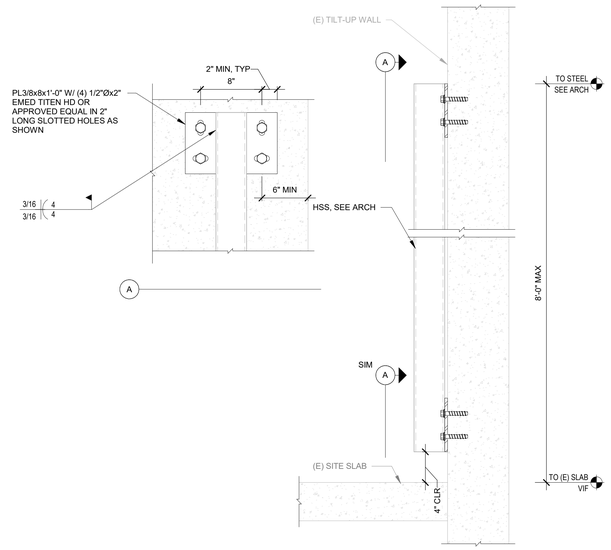


2 ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING NOTES

1. SEE GENERAL NOTES, SPECIFICATIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
2. DECK ELEVATIONS SHOWN ARE BOTTOM OF DECK UNLESS OTHERWISE NOTED. TOP OF JOISTS TO BE BOTTOM OF METAL DECK UON.
3. DECK NOTATED AS D1 IS 1.5" DEEP WIDE RIB DECK, 20 GAGE MINIMUM:
   a. MINIMUM PROPERTIES:
      1. I_P = 0.197 IN^4/FT
      2. S_P = 0.224 IN^3/FT
      3. S_N = 0.229 IN^3/FT
   b. DECK CONNECTION OPTIONS:
      1. 5/8" PUDDLE WELD IN 36/7 PATTERN TO PERP SUPPORTS, @ 12" OC TO PARALLEL SUPPORTS, & #10 SCREWS @ 36" OC FOR SIDELAPS
      2. HILTI X-HSN 24 (OR APPROVED EQUAL PAF) IN 36/7 PATTERN TO PERP SUPPORTS, @ 12" OC TO PARALLEL SUPPORTS, & #10 SCREW @ 36" OC FOR SIDELAP
4. BOTTOM OF DECK = TOP OF EXISTING WALL. VERIFY IN FIELD

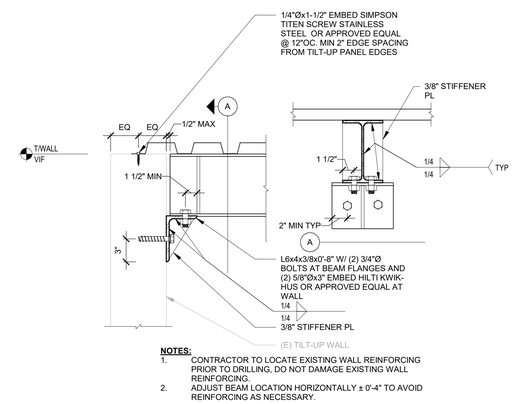


NOTES:

1. PRIOR TO DRILLING HOLES, CONTRACTOR TO LOCATE (E) WALL REINFORCEMENT, ADJUST LOCATION OF PLATE AS REQUIRED TO AVOID DAMAGING REINFORCING BARS

3 GATE ANCHOR PLATE DETAIL

1 1/2" = 1'-0"

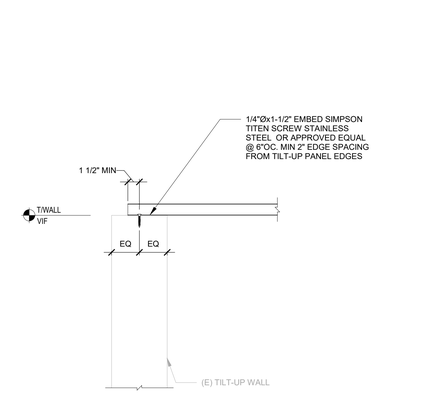


NOTES:

1. CONTRACTOR TO LOCATE EXISTING WALL REINFORCING PRIOR TO DRILLING, DO NOT DAMAGE EXISTING WALL REINFORCING.
2. ADJUST BEAM LOCATION HORIZONTALLY ± 0'-4" TO AVOID REINFORCING AS NECESSARY.

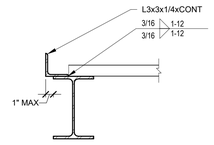
4 RAFTER AT (E) CONC WALL

1 1/2" = 1'-0"



5 DECK TO (E) CONC END WALL

1 1/2" = 1'-0"



6 BEAM AT DECK EDGE

1 1/2" = 1'-0"

Revisions:	Date:

CONSULTANT

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TRAVIS BENJAMIN MINNICH LICENSE No. 95259 11/3/23 STATE OF FLORIDA PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	STRUCTURAL PLANS AND DETAILS
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
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Checked	ES
Drawn	JTB
Drawing Number	S-101

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Autodesk Docs://Viera Site Deficiencies R22/VIERA_STR_R22.rvt

VA FORM 08 - 6231

CHILLED WATER COOLING COIL SCHEDULE

NOTES:
1. EXISTING COOLING COIL OF EXISTING TRANE UNIT (CLIMATE CHANGER CSAA014UAL00, ORDER NO H3F346A/A) TO BE REPLACED.

MARK	LOCATION	SERVES	SYSTEM	AIR FLOW (CFM)	APD (IN WG)	EAT		LAT		CAPACITY		CHILLED WATER				REMARKS
						Db (°F)	Wb (°)	Db (°F)	Wb (°F)	TOTAL (MBH)	SENSIBLE (MBH)	FLOW (GPM)	EWT (°F)	LWT (°F)	WPD (FT)	
(E)FCU-1	CENTRAL PLANT	CENTRAL PLANT	CHILLED WATER	6800	1.1	80.0 °F	70.0 °F	53.0 °F	52.0 °F	370	204	53	42.0 °F	56.0 °F	10	NOTE 1, D3UB320610GFB122*AKA00B

SINGLE DUCT AIR TERMINAL UNIT WITH ELECTRIC REHEAT SCHEDULE

MARK	LOCATION	SERVES	SIZE	AIR FLOW			REHEAT			ELECTRICAL			BASIS OF DESIGN		REMARKS
				MAX	MIN	INLET STATIC PRESSURE (IN WG)	EAT Db (°F)	LAT Db (°F)	ELECTRIC HEAT (KW)	VOLT	PHASE	CIRCUIT POWER	MANUFACTURER	MODEL	
VAV-1	CENTRAL PLANT	OFFICE	6	200	100	1	55.0 °F	85.0 °F	1	277	1	1 KW	PRICE	SDV	INTEGRATE WITH TRANE TRACER BMS.

MECHANICAL ABBREVIATIONS

AC	ABOVE CEILING	GEF	GENERAL EXHAUST FAN
AFF	ABOVE FINISHED FLOOR	IBT	INVERTED BUCKET TRAP
AI	ANALOG INPUT	IN HG	INCHES MERCURY (PRESSURE)
AO	ANALOG OUTPUT	IN WC	INCHES WATER COLUMN (PRESSURE)
BF	BELOW FLOOR, BLIND FLANGE	LE	LAUNDRY EQUIPMENT
BFC	BELOW FINISHED CEILING	MA	MIXED AIR
BG	BELOW GRADE	MVD	MOTORIZED VOLUME DAMPER
BV	BUTTERFLY VALVE	N	NEW
CHW	CHILLED WATER	OA	OUTSIDE AIR
CRU	COMPUTER ROOM UNIT	OBD	OPPOSED BLADE DAMPER
CRU	CONDENSATE RETURN UNIT	PRV	PRESSURE RELIEF VALVE
CU	CONDENSING UNIT	R	RELOCATED
DI	DIGITAL INPUT	RA	RETURN AIR
DO	DIGITAL OUTPUT	RCA	RECIRCULATED (RETURN) AIR
DS	DISCONNECT SWITCH	RLA	RELIEF AIR
E	EXISTING	SA	SUPPLY AIR
EDH	ELECTRIC DUCT HEATER	SF	SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	SV	SAFETY VALVE
EA	EXHAUST AIR	TAV	THERMOSTATIC AIR VENT (STEAM SYSTEM)
EF	EXHAUST FAN	UH	UNIT HEATER
FCU	FAN COIL UNIT	UNO	UNLESS NOTED OTHERWISE
FMB	FILTER MIXING BOX	VAV	VARIABLE AIR VOLUME
FPB	FAN POWERED BOX	VD	VOLUME DAMPER
FPI	FINS PER INCH	WH	WATER HEATER
GC	GENERAL CONTRACTOR	WHP	WATER-SOURCE HEAT PUMP

AIR DEVICE SCHEDULE

NOTES:
1. NOT USED.

MARK	PANEL/FRAME SIZE (IN×IN)	NECK TYPE	MOUNTING	DAMPER	FINISH	BASIS OF DESIGN		REMARKS
						MANUFACTURER	MODEL	
R-01	24"x24"	NO	WHITE			ASPD / 5PLQ / OMNI-AA	PRICE / KRUEGER / TITUS	
S1	24"x24"	NO	CEILING	NO	WHITE	ASPD / 5PLQ / OMNI-AA	PRICE / KRUEGER / TITUS	
S2	12"x12"	NO	CEILING	NO	WHITE	ASPD / 5PLQ / OMNI-AA	PRICE / KRUEGER / TITUS	

FAN SCHEDULE

NOTES:
1. NOT USED.

MARK	TYPE	AIR FLOW (CFM)	TSP (IN)	ELECTRICAL					BASIS OF DESIGN		REMARKS
				VOLT	PHASE	MOTOR HP	MOTOR RPM	MOTOR SPEED CONTROL	MANUFACTURER	MODEL	
EF-2	CEILING,	100	1	120	1	1/4	1800	N / A	AIR KING	AS70	

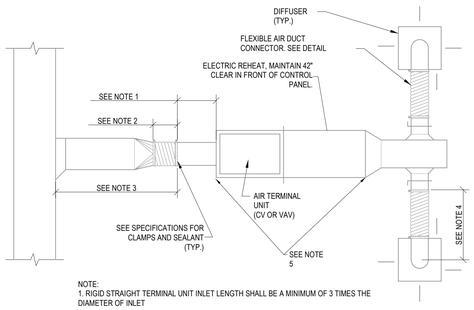
MECHANICAL SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
A #	NEW EQUIPMENT DESIGNATION (TOP - EQUIP. ABBREV., BOTTOM - MARK)
A #	NEW DIFFUSER DESIGNATION (TOP - SCHEDULE DESIGN., BOTTOM - CFM)
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	NEW DUCT
	EXISTING DUCT
	EXISTING DUCT TO BE REMOVED OR RELOCATED
	NEW SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER TO BE REMOVED OR RELOCATED
	NEW R/A OR EXHAUST GRILLE
	EXISTING R/A OR EXHAUST GRILLE
	EXISTING R/A OR EXHAUST GRILLE TO BE REMOVED OR RELOCATED
	NEW SLOT DIFFUSER
	FLEXIBLE DUCT
	EXISTING SLOT DIFFUSER
	EXISTING SLOT DIFFUSER TO BE REMOVED OR RELOCATED
T	THERMOSTAT W/ BACKBOX AND CONDUIT TO ABOVE CEILING
T	EXISTING THERMOSTAT TO BE REMOVED OR RELOCATED
	45 DEGREE PRESSURE TAP W/ VOLUME DAMPER
	CONICAL TAP W/ VOLUME DAMPER
	CONICAL TAP W/O VOLUME DAMPER
	MANUAL DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER
M	MOTORIZED DAMPER
BD	BAROMETRIC DAMPER
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
PCR	PUMPED CONDENSATE RETURN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
SS	SANITARY WASTE LINE
CD	CONDENSATE DRAIN
P	PUMPED SANITARY LINE
	VENT LINE
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	TEMPERATURE AND PRESSURE RELIEF VALVE
	BALANCING VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	PLUG VALVE/BALANCING COCK
	SOLENOID VALVE
	CHECK VALVE
	HYDRAULIC SHOCK ARRESTOR
	UNION
V	VACUUM BREAKER
FCO GCO	FLOOR CLEANOUT OR GRADE CLEANOUT
WCO	CLEANOUT OR WALL CLEANOUT
	PETE'S PLUG
	GAUGE COCK
	THERMOMETER
	THERMOMETER WELL
	CONNECT TO EXISTING

GENERAL NOTES

A. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES AND VA TIL REQUIREMENTS. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL CONSTRUCTION.
B. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
C. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
D. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WALLS WHICH EXTEND TO STRUCTURE. EACH HVAC DUCT OR PIPE PENETRATION THROUGH THESE WALLS SHALL BE INSTALLED AS DETAILED. WHERE FLEXIBLE DUCT WOULD PENETRATE A WALL WHICH EXTENDS TO STRUCTURE, PROVIDE INSULATED RIGID DUCT EXTENDING 12 INCHES ON EITHER SIDE OF THE PARTITION.
E. COORDINATE THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.
F. COORDINATE THE LOCATION OF DUCTWORK AND PIPING WITH OTHER TRADES AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED.
G. IT IS THE INTENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF DUCTWORK AND PIPING AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MEET THIS INTENT.
H. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEMS SUPPORTS.
I. REFER TO RISER DIAGRAMS AND FLOW DIAGRAMS FOR PIPE SIZES NOT SHOWN ON THE PLANS.
J. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON PADS AS SPECIFIED. PAD BY GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
K. PROTECT EQUIPMENT FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
L. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH-UP WITH PAINT WHERE REQUIRED.
M. CONTRACTOR SHALL VISIT JOBSITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.
N. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.
O. ALL EXISTING FACILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION ACTIVITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE AND STORE ITEMS WHICH ARE SUBJECT TO DAMAGE.
P. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL GRILLE, DIFFUSER, AND THERMOSTAT LOCATIONS.
Q. COORDINATE ALL AIR DEVICE LOCATIONS AND MOUNTING FRAME STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS. PROVIDE 6'-0" FROM CENTER TO CENTER FROM SUPPLY TO EXHAUST/RETURN GRILLES FOR PROPER AIRFLOW.
R. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
S. REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR COORDINATION OF FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS. THE DESIGN INTENT IS TO PROVIDE THE INDICATED DAMPERS IN ACCORDANCE WITH REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL LIFE SAFETY DAMPERS, INCLUDING FIRE ALARM CONTROL WIRING AND MONITORING REQUIRED BY THE IBC AND LOCAL ORDINANCES AND CODE INTERPRETATIONS.
T. ALL DUCT RUN-OUTS TO VAV TERMINAL BOXES SHALL BE 2" LARGER THAN INLET SIZE IF BOX IS MORE THAN 15 FT. FROM MAIN SUPPLY DUCT.
U. ANY DEVIATIONS FROM SCHEDULED EQUIPMENT RESULTING IN ADDITIONAL COST DUE TO THE LACK OF COORDINATION WITH DIMENSIONS AND WEIGHTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
V. ALL FIRE/SMOKE COMBINATION DAMPERS AND/OR FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS THAT WERE TESTED AT U.L. LABORATORIES AND U.L. LISTED.
X. WIRING:
COMBUSTIBLE ELECTRICAL OR ELECTRONIC WIRING METHODS AND MATERIALS, OPTICAL FIBER CABLE, AND OPTICAL FIBER RACEWAYS EXPOSED WITHIN A PLENUM SHALL HAVE A PEAK OPTICAL DENSITY NOT GREATER THAN .50. AN AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15 AND A FLAME SPREAD NOT GREATER THAN 5 FEET WHEN TESTED IN ACCORDANCE WITH NFPA 262. ONLY TYPE OFNP (PLENUM RATED NON-CONDUCTIVE FIBER CABLE) SHALL BE INSTALLED IN PLENUM-RATED RACEWAYS. WIRING, CABLE, AND RACEWAYS ADDRESSED IN THIS SECTION SHALL BE LISTED AND LABELED AS PLENUM RATED AND SHALL BE INSTALLED IN ACCORDANCE WITH ICC ELECTRICAL CODE.
Y. PROVIDE VOLUME AND BALANCING DAMPERS AS REQUIRED BY IMC 603.17 FOR EACH BRANCH OR DIFFUSER. REFERENCE CONSTRUCTION DOCUMENT SPECIFICATION SECTIONS 233300 & 230593. PROVIDE LINKAGE VOLUME DAMPERS TO DAMPERS LOCATED ABOVE HARD-LID CEILINGS SIMILAR TO YOUNG REGULATOR MODEL 927C OR EQUIVALENT SOLID LINKAGE DAMPER.
Z. ALL DUCT DETECTORS TO COMPLY WITH 2018 IMC 606.4.1 WHICH REQUIRES VISUAL LED MONITORING AS WELL AS CENTRAL FIRE ALARM & BMS MONITORING OF ALL DUCT DETECTORS. VISUAL MONITORS WILL BE INSTALLED WHERE AVAILABLE. WHERE NOT AVAILABLE, A VISUAL AND AUDIBLE ALARM WILL BE PROVIDED THROUGH THE BMS AND FIRE ALARM SYSTEM TO A CONSTANTLY ATTENDED LOCATION.



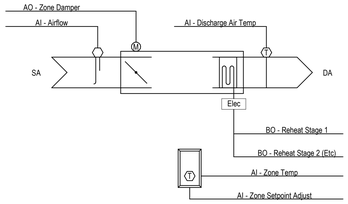
NOTE:
1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET

2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0".

3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET. FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100'.

4. FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0". USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°. 5. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.

5 DUCT CONNECTIONS - AIR TERMINAL UNITS
NTS



ELECTRIC HEAT TERMINAL UNIT

GENERAL:
ADD GRAPHICS TO TRANE TRACE BUILDING MANAGEMENT SYSTEM.

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

REVERSING VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

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

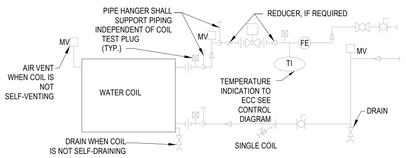
ELECTRIC REHEATING STAGES:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE REHEATING TO MAINTAIN ITS SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE REHEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW SETPOINT.
- AND SUFFICIENT AIRFLOW IS PROVIDED.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

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

4 TERMINAL UNIT CONTROL DIAGRAM
NTS

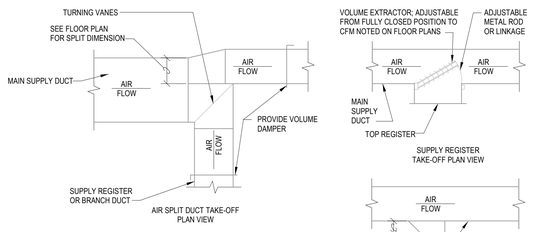


NOTES:
1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 4" ∅ PIPE & SMALLER. TYPE "H-P" FOR 5" ∅ PIPE & LARGER.

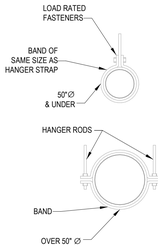
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALES, OR EQUIPMENT.

3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.

3 WATER COILS - PIPING CONNECTIONS
NTS



2 SUPPLY DUCTWORK TAKE-OFFS
NTS



HANGER STRAPS OR RODS			
MAX. DUCT ∅ IN. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS.	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.

1 ROUND DUCT HANGERS
NTS

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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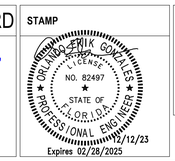

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL LEGEND AND ABBREVIATIONS	Phase: BID SET	Project Title: ADDRESS VIERA SITE DEFICIENCIES	Project Number: 675-23-151
Approved:		Location	Building Number: BLDG 1
		Issue Date: NOV 3, 2023 / Checked: AESUS / Drawn: AESUS	Drawing Number: M-001

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GENERAL NOTES

A. REFER TO SHEET M-001 FOR ADDITIONAL GENERAL NOTES.

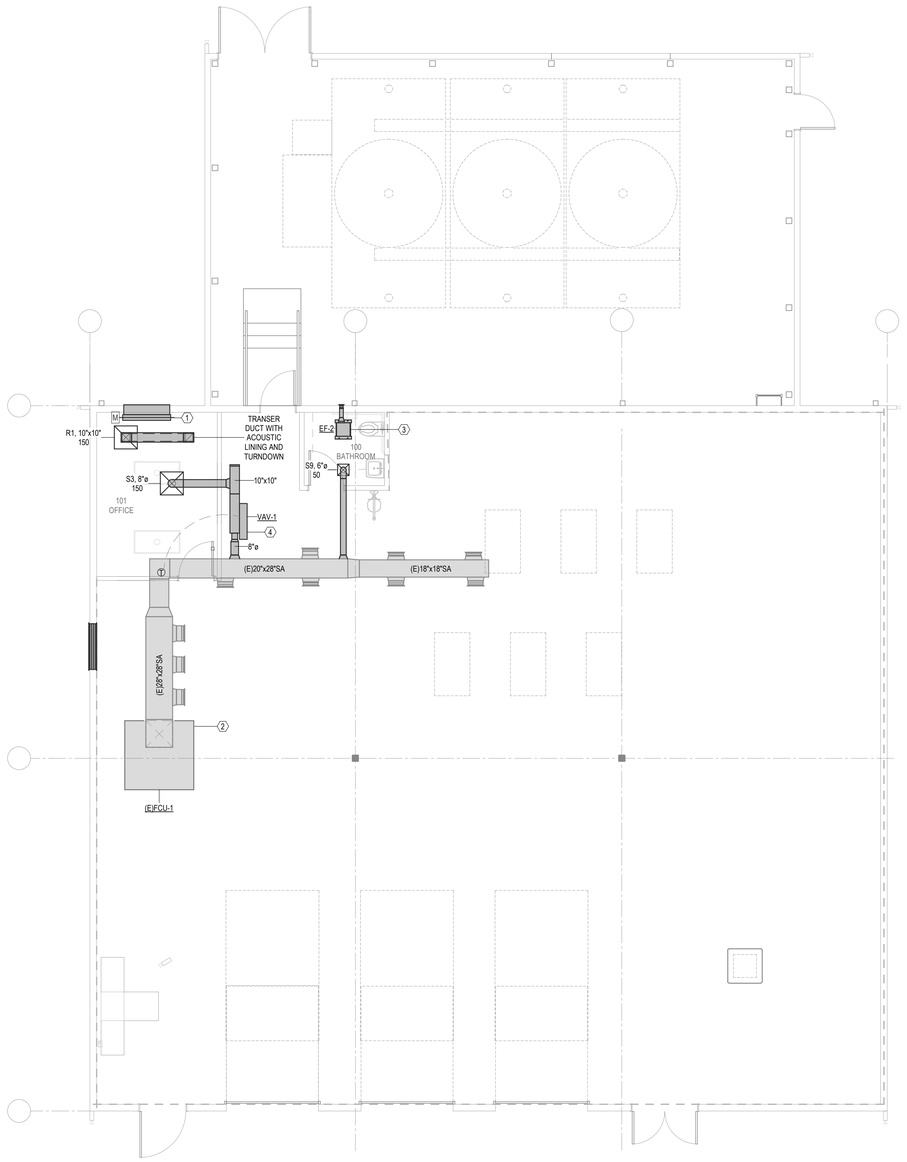
LEGEND NOTES (#)

1 INSTALL 48"x36" MOTORIZED DAMPER AT EXISTING INTAKE LOUVER (NOMALLY OPEN). INTERLOCK MOTORIZED LOUVER WITH REFRIGERANT DETECTION SYSTEM (OPEN UPON REFRIGERANT ALARM).

2 EXISTING FAN COIL DOES NOT SUFFICIENTLY COOL SPACE. REPLACE EXISTING COOOLING COIL AND ASSOCIATED HYDRONIC COIL KIT. REFER TO SCHEDULE.

3 INSTALL CEILING EXHAUST FAN. ROUTE 6" ROUNT OUTLET TO EXTERIOR. PROVIDE WALL CAP.

4 PROVIDE ELECTRIC VAV SERVING OFFICE COMPLETE WITH TRANE TRACER CONTROLS. PROVIDE THERMOSTAT IN OFFICE.



2 MECHANICAL ENLARGED LEVEL 1 PLAN
3/16" = 1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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12/12/23
Expires 02/28/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL PLAN - CENTRAL PLANT	Phase: BID SET
Approved:	
Project Title: ADDRESS VIERA SITE DEFICIENCIES	Project Number: 675-23-151
Location	Building Number: BLDG 1
Issue Date: NOV 3, 2023 / Checked: AESUS / Drawn: AESUS	Drawing Number: M-201

VA FORM 08 - 6231

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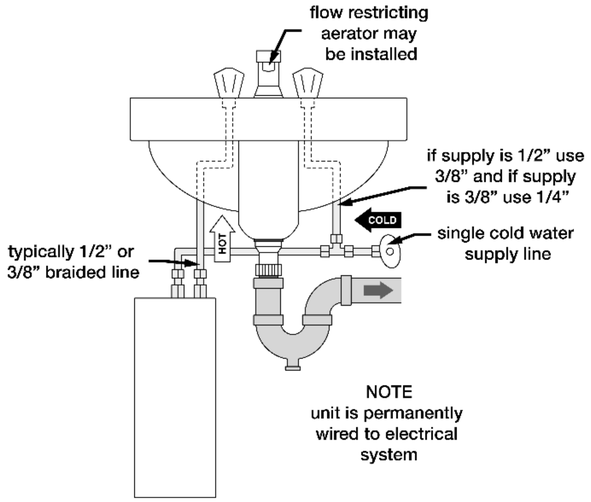
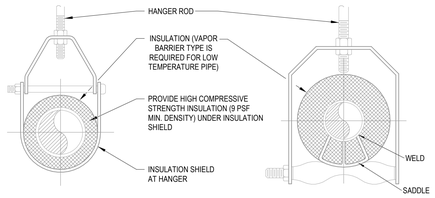
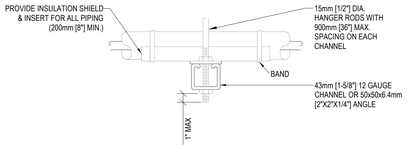


5 LAVATORY INSTANT HOT WATER HEATER DETAIL
NTS



ADJUSTABLE CLEVIS HANGER TYPE 1 - SEE SPECIFICATIONS

ADJUSTABLE CLEVIS HANGER TYPE 43 - SEE SPECIFICATIONS



SIDE VIEW TRAPEZE HANGER FOR UP TO 453KG [1000 LB.] UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING

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

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

2 PIPE HANGERS
NTS

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	INV	INVERT
AFG	ABOVE FINISHED GRADE	IV	INDUSTRIAL WASTE VENT
BFF	BELOW FINISHED FLOOR	IW	INDUSTRIAL WASTE
BFG	BELOW FINISHED GRADE	LP	LOW PRESSURE
BV	BALANCING VALVE	LPG	LOW PRESSURE GAS
CFR	CLEAN FUEL OIL RETURN	M	METER
CFS	CLEAN FUEL OIL SUPPLY	MAX	MAXIMUM
CO	CLEANOUT	MH	MANHOLE
COF	COFFEE MACHINE	MIN	MINIMUM
COMP	COMPARTMENT	MPG	MEDIUM PRESSURE GAS
CW	COLD WATER	NAT	NATURAL
DFU	DRAINAGE FIXTURE UNIT	NC	NORMALLY CLOSED
DI	DEIONIZED WATER	NO	NORMALLY OPEN
DN	DOWN	OD	OVERFLOW DRAIN
ELEV	ELEVATION	ODL	OVERFLOR DRAIN LEADER
EVS	ENVIRONMENTAL SERVICES	OR	OPERATING ROOM
EXT	EXTERIOR	PRV	PRESSURE REDUCTING VALVE
F	FUTURE	RD	ROOF DRAIN
FCO	FLOOR CLEANOUT	RDL	ROOF DRAIN LEADER
FDC	FIRE DEPARTMENT CONNECTION	REF	REFERENCE
FFE	FINISHED FLOOR ELEVATION	RI&C	ROUGH IN AND CONNECT
FIN	FINISHED	RO	REVERSE OSMOSIS
FLR	FLOOR	SA	SHOCK ARRESTOR
FOR	FUEL OIL RETURN	SCW	SOFT COLD WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FEET
FOV	FUEL OIL VENT	SOV	SHUT-OFF VALVE
FP	FIRE PROTECTION/SPRINKLER	SSD	SUB-SOIL DRAIN
G	GAS	THRU	THROUGH
GCO	GRADE CLEANOUT	UIG	UNDERGROUND
GV	GREASE VENT	ULT	ULTRASONIC CLEANER
GVTR	GREASE VENT THRU ROOF	V	VENT
GW	GREASE WASTE	VTR	VENT THROUGH ROOF
HUM	HUMIDIFIER	WC	WATER COLUMN
HW	HOT WATER (120F)	WCO	WALL CLEANOUT
HWR	HOT WATER RETURN (120)	WM	WATER METER
ICE	ICE MACHINE	WSFU	WATER SUPPLY FIXTURE UNIT
IE	INVERT ELEVATION	WTR	WATER DISPENSER
INT	INTERIOR		

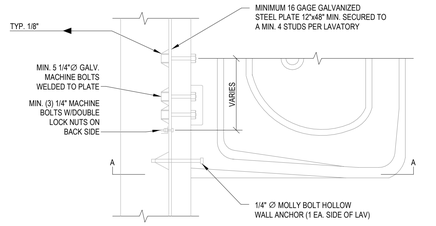
INSTANT HOT SCHEDULE

NOTES:
1. LOCATE BELOW SINK.
2. VOLTAGES 208/240/277 AVAILABLE.

MARK	LOCATION	MODEL	MANUFACTURE	STORAGE CAPACITY (GAL)	ELECTRICAL		REMARKS
					VOLT	POWER (KW)	
EWH-1	RESTROOM	TEF041	BRADFORD WHITE	0	208/1 OR 277/1	4	NOTES 1,2

PLUMBING FIXTURES SCHEDULE

MARK	CONNECTION SIZE (IN)					DESCRIPTION
	CW	HW	WASTE	TRAP	VENT	
P-106	0.5	--	4	--	2	PRESSURE-ASSITED, TANK-TYPE TOILET.
P-401	0.5	0.5	2	1.25	2	WALL MOUNTED LAV, WRISTBLADE HANDLES.
P-708	0.75	--	2	--	2	WALL-MOUNTED EYE-WASH. DOMESTIC COLD WATER TEMP IS SUFFICIENT, NO MIXING VALVE REQUIRED.



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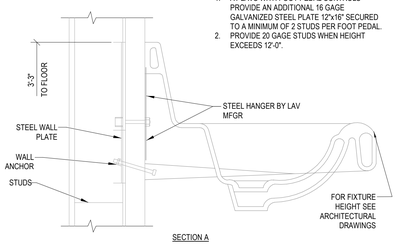

SECTION A

1 LAVATORY MOUNTING DETAIL
NTS

PLUMBING SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER (TEMP. AS NOTED)
	DOMESTIC HOT WATER RETURN (TEMP. AS NOTED)
HP	HIGH PRESSURE COLD WATER
	COLD OR HOT REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ)
	EXISTING PIPING TO BE REMOVED
	PIPING TO BE ELECTRICALLY HEAT TRACED
SS	SANITARY SEWER PIPING (SOIL OR WASTE)
GW	GREASY WASTE SEWER PIPING
	SANITARY VENT PIPING
SSD	SUB-SOIL DRAIN PIPING, FOOTING DRAIN PIPING
AW	ACID WASTE PIPING
AV	ACID VENT PIPING
IW	INDIRECT WASTE
SED	SEWAGE EJECTOR DISCHARGE PIPING (PUMPED SANITARY)
CD	CONDENSATE DRAIN PIPING
D	DRAIN PIPING
	CONNECT NEW TO EXISTING
SD	STORM DRAIN PIPING
OD	STORM OVERFLOW DRAIN PIPING
CA	COMPRESSED AIR PIPING
SPD	SUMP PUMP DISCHARGE PIPING
ACC	GAS PIPE UNDER THE JURISDICTION OF THE ARIZONA CORPORATION COMMISSION
G	NATURAL GAS PIPING
SP	SPRINKLER PIPING (SPRK.)
DSP	DRY SPRINKLER PIPING
NPTW	NON-POTABLE TEMPERED WATER
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	GLOBE VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	GAS COCK / PLUG VALVE
	SOLENOID VALVE
	PRESSURE REGULATION VALVE (PRV)
AQ	AQUASTAT
	CHECK VALVE
	CHECK VALVE WITH AUTOMATIC BALL DRIP
	VALVE IN VERTICAL
R	GAS PRESSURE REGULATOR VALVE
	BALANCING VALVE
	STRAINER WITH BLOW-OFF VALVE
	STRAINER
SA-A	SHOCK ARRESTOR SA-(A)
M	WATER FLOW METER
HD	HUB DRAIN
FD	FLOOR DRAIN
FS	FLOOR SINK
	2-WAY CLEANOUT (GRADE) (GCO)
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER WITH SHUT-OFF COCK
	HOSE BIBB (HB) OR WALL HYDRANT (WH)
	YARD HYDRANT
	SLEEVE THRU WALL
	EXPANSION LOOP
FCO GCO	FLOOR CLEANOUT OR GRADE CLEANOUT
RD	ROOF DRAIN
OD	OVERFLOW ROOF DRAIN
	DOWNSPOUT NOZZLE (18"A.F.F.)
WCO	WALL CLEANOUT
CO CO	CLEANOUT PLUG
	OS & Y VALVE SUPERVISED (HORIZ. POSITION/VERT. POSITION)
FCA	SPRINKLER SYSTEM FLOOR CONTROL VALVE ASSEMBLY (FCVA)
	DOUBLE CHECK VALVE ASSEMBLY (DCVA) WITH OS & Y VALVES SUPERVISED
FS	FLOW SWITCH
	FIRE HOSE VALVE
	SIAMESE FIRE DEPARTMENT CONNECTION
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	CAP OUTLET OR PLUGGED OUTLET
	UNION
	CAP SANITARY SEWER OR STORM PIPING
	PUMP

GENERAL NOTES

A. ALL WORK TO COMPLY WITH VA TIL REQUIREMENTS AND AMENDMENTS.
B. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.
C. OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL FEDERAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
D. FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
E. COORDINATE THE EXACT LOCATION OF PLUMBING PIPING AND EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, MECHANICAL SYSTEMS, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.
F. IT IS THE REQUIREMENT OF THESE DOCUMENTS TO ALLOW ALL CEILINGS TO BE CONSTRUCTED AT HEIGHTS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF PIPING AND PROVIDE OFFSETS IN PIPING AS REQUIRED TO MEET THIS REQUIREMENT.
G. ALL PIPING SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.
H. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PLANS AND WITH FACILITY SCHEDULES, OCCUPANCIES, AND WORK. COORDINATE WITH FACILITY REPRESENTATIVE.
I. PROTECT EQUIPMENT AND FIXTURES FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
J. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
K. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.
L. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.
M. COORDINATE ALL NEW WORK WITH ALL TRADES. WORK SHOWN ON THESE DRAWINGS ARE INTENDED TO PROVIDE THE OVERALL ENGINEERING DESIGN CONCEPT AND DOES NOT PROVIDE FOR RELOCATIONS, OFFSETS, ETC., THAT ARE REQUIRED BY THE COORDINATION OF TRADES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
N. THE EXISTING FACILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION ACTIVITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO STORE, RELOCATE, AND REUSE ITEMS WHICH ARE SUBJECT TO DAMAGE.
O. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
P. DEMOLITION OF THE AREA SHALL OCCUR AS PART OF THE WORK FOR THAT AREA. REMOVE ONLY THE PLUMBING THAT SERVES THE AREA OF DEMOLITION.
Q. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY PIPING, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PROJECT IN WHICH WORK IS BEING PERFORMED.
R. ALL NECESSARY SHUTDOWNS IN OR OUT OF THE WORK AREA SHALL BE COORDINATED AND SCHEDULED WITH THE FACILITY REPRESENTATIVE.
S. LOCATE ISOLATION VALVES FOR EQUIPMENT AND FIXTURES AS CLOSE TO THE MAIN AS POSSIBLE. PROVIDE CEILING OR WALL ACCESS PANELS AS NEEDED.
T. ALL PLUMBING EQUIPMENT OR VALVES REQUIRING ACCESS THAT IS LOCATED ABOVE GYP. BOARD OR OTHERWISE INACCESSIBLE CEILING SHALL BE PROVIDED WITH A CEILING ACCESS PANEL SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THESE ACCESS PANELS WITH THE GENERAL CONTRACTOR.
U. PROVIDE DETAILED AND DIMENSIONED PIPING FABRICATION DRAWINGS FOR APPROVAL BY THE ARCHITECT/ENGINEER. ONE BLUE-LINE SET OF THE APPROVED DRAWINGS SHALL BE KEPT ON-SITE AT ALL TIMES AND ANY CHANGES REQUIRED IN THE FIELD SHALL BE MARKED ON THESE DRAWINGS. AT THE END OF THE PROJECT, ALL CHANGES SHALL BE TRANSFERRED TO A REPRODUCIBLE DRAWING TO BE GIVEN TO THE OWNER FOR "AS-BUILT" DRAWINGS. REPRODUCTIONS OF THIS DRAWING WILL NOT BE CONSIDERED AS PIPING FABRICATION DRAWINGS.
V. ALL MAJOR AND SECTIONAL BALANCING VALVES SHALL BE TAGGED AND NOTED ON THE "AS-BUILT" DRAWINGS.
W. SLOPE AND ARRANGE WATER PIPING SYSTEMS TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINING OF EACH LINE.
X. COORDINATE ALL PIPING ROOF PENETRATIONS AND FLOOR PENETRATIONS WITH STRUCTURAL. DUCT OPENINGS THROUGH ROOF SHALL BE THE SAME REQUIRED FOR THE DUCT AND INSULATION ONLY.
Y. TEST ALL SEWER, WATER, AND MEDICAL GAS PRIOR TO BACKFILL AND COVER. CALL FOR INSPECTION AND WITNESS TESTING PRIOR TO CONCEALING SEWER, WATER, AND MEDICAL GAS PIPING.
Z. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES. ALL MATERIALS TO BE APPROVED OR LISTED.
AA. FLUSH AND DISINFECT ALL POTABLE WATER PIPING PRIOR TO OCCUPANCY.

Revisions:	Date:

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12/12/23
Expires 02/28/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	PLUMBING LEGEND AND ABBREVIATIONS
Phase	BID SET
Approved:	
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Location	
Issue Date	NOV 3, 2023
Checked	Checker
Drawn	Author
Project Number	675-23-151
Building Number	BLDG 1
Drawing Number	P-001

VA FORM 08 - 6231

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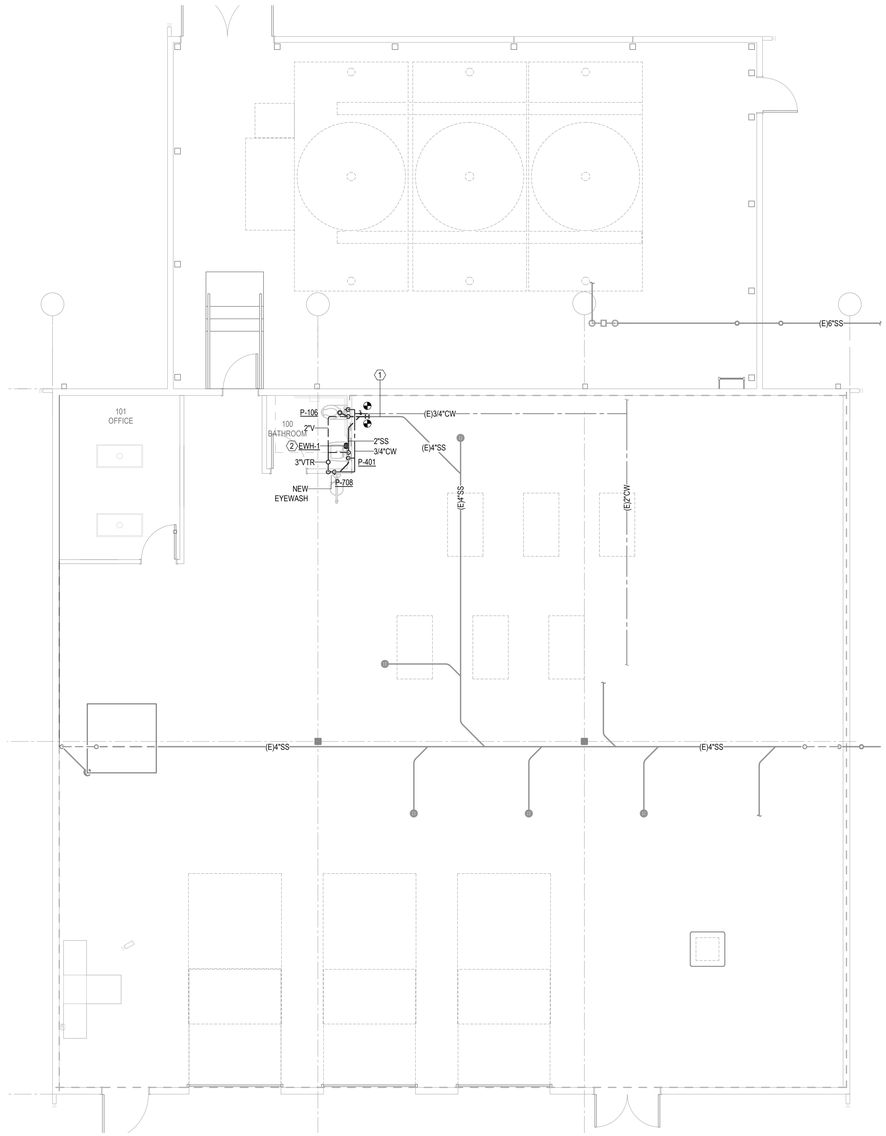
GENERAL NOTES

A. REFER TO SHEET P-001 FOR ADDITIONAL GENERAL NOTES.
B. ALL EXTENSIONS OF NEW WASTE PIPING WILL REQUIRE SAW-CUTTING (SLAB ON GRADE).

LEGEND NOTES (#)

1 EXISTING PONY WALL HAS 3/4"CW AND 4"SS STUBBED UP. REWORK EXISTING PIPING TO ACCOMODATE NEW TOILET. EXTEND PIPING FOR NEW LAV AND EYEWASH.
2 INSTALL NEW INSTANTANEOUS HOT WATER HEATER BELOW SINK.



1 PLUMBING LEVEL 1 PLAN - WATER
3/16" = 1'-0"

Revisions:	Date:

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Expires 02/28/2025

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

Drawing Title: PLUMBING PLAN - CENTRAL PLANT
Approved:
Phase: BID SET
Project Title: ADDRESS VIERA SITE DEFICIENCIES
Location:
Issue Date: NOV 3, 2023
Checked: AESUS
Drawn: AESUS
Project Number: 675-23-151
Building Number: BLDG 1
Drawing Number: P-201

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GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 1 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
E/A	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SAN	SANITARY
FPM	FEET PER MINUTE	SF	SQUARE FOOT
FT	FOOT/FEET	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
ID	INDIRECT	V	VENT
IN	INCH	VENT	VENTILATION
INV	INVERT	W	WASTE
LB	POUND	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

ACU	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
B	BOILER	FP	FIRE PUMP
CH	CHILLER	GINT	GREASE INTERCEPTOR
CT	COOLING TOWER	GRV	GRAVITY ROOF VENTILATOR
CU	CONDENSING UNIT	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RF	RETURN FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

FIRE PROTECTION SYMBOLS

- FP-D — FIRE PROTECTION DRY
- FP-O — FIRE PROTECTION OTHER
- FP-PA — FIRE PROTECTION PRE-ACTION
- FP-W — FIRE PROTECTION WET
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- DRY SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
- PIPE DROP
- PIPE RISE
- PIPE TEE
- CAP

PIPE ACCESSORY TAGS

- BALANCING VALVE
- 1/4 TURN BALL VALVE
- CHECK VALVE
- ALARM CHECK VALVE
- DRY PIPE VALVE
- FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
- INDICATING BUTTERFLY VALVE
- OS&Y VALVE
- PRESSURE REDUCING VALVE
- POST INDICATOR VALVE
- RISER
- SIAMESE FIRE DEPARTMENT CONNECTION
- SINGLE FIRE DEPARTMENT CONNECTION
- THRUST BLOCK
- VALVE NONRISING STEM
- PREACTION VALVE

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE PROVIDED (FURNISHED AND INSTALLED) UNDER THIS CONTRACT. DRAWINGS SHOULD NOT BE SCALED.
2. THE CONTRACTOR IS RESPONSIBLE TO EXAMINE THE EXISTING CONDITIONS UNDER WHICH THEY SHALL OPERATE AND VERIFY THE EXTENT OF WORK REQUIRED TO COMPLETE THE WORK UNDER THIS CONTRACT.
3. PRIOR TO ORDERING AND FABRICATING ANY EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE PHYSICAL CONDITIONS AT THE PROJECT SITE AND VERIFY SPACE AND SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCES, AND TO DETERMINE ANY NECESSARY MODIFICATIONS.
4. PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. IF CONFLICTS EXIST BETWEEN THESE ENGINEERING DOCUMENTS AND CODES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5. ALL CONSTRUCTION WORK SHALL ALSO MEET THE LATEST EDITIONS OF THE FOLLOWING CODE REQUIREMENTS:
   - VA DESIGN MANUALS
   - INTERNATIONAL BUILDING CODE (IBC)
   - ASHRAE 90.1, ENERGY STANDARD FOR BUILDING EXCEPT LOW-RISE RESIDENTIAL BUILDINGS
   - NFPA 1, THE UNIFORM FIRE CODE
   - NFPA 101, THE LIFE SAFETY CODE
   - NFPA 51B, STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK
   - NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
   - NFPA 70, NATIONAL ELECTRICAL CODE
   - NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTING SYSTEMS.
   - NFPA 99, STANDARD FOR HEALTH CARE FACILITIES
   - NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS.
1. CONTRACTOR SHALL COORDINATE AND SEQUENCE DEMOLITION, CLEANING, AND CONSTRUCTION WORK.
2. CONTRACTOR SHALL NOTE ANY SPECIAL REQUIREMENTS FOR INSTALLATION OF WORK UNDER THIS CONTRACT. DISMANTLE AND REASSEMBLE EQUIPMENT AS NECESSARY FOR ENTRY INTO THE BUILDING AND THE LOCATION OF INSTALLATION.
3. THE CONTRACTOR SHALL MAINTAIN A COMPLETE PROJECT SCHEDULE AND SHALL UPDATE THIS SCHEDULE WEEKLY. ANY CHANGES SHALL BE NOTED AND AN UPDATED SCHEDULE SHALL BE PROVIDED TO THE OWNER.
4. ALL PERMITS, FEES, TAXES, ETC SHALL BE PAID BY CONTRACTOR AS PART OF THE TOTAL PROJECT COST.
5. MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH FIRESTOP MATERIAL IN ACCORDANCE WITH U.L. REQUIREMENTS TO MAINTAIN THE ASSEMBLY RATING.
6. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE AND SMOKE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES, OR CONDUITS, AND SHALL DISPLAY THESE DRAWINGS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
7. CONTRACTOR SHALL REFER TO ALL DETAILS FOR PROPER GUIDANCE.
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR ALL PRODUCTS USED ON PROJECT.
9. THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF CONTRACT DOCUMENTS UNLESS THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER TO THE SPECIFIC DEVIATION. THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN HIS OR HER SUBMITTAL DATA.
10. THE CONTRACTOR IS REQUIRED TO SUBMIT THREE COMPLETE O&M MANUALS IN THREE RING BINDERS AT SUBSTANTIAL COMPLETION. MANUALS SHALL INCLUDE INSTALLATION AND MAINTENANCE DATA ON ALL NEW EQUIPMENT AND MATERIALS, CERTIFIED TECHNICAL PRODUCT DATA, EQUIPMENT SHOP DRAWINGS, SPARE PARTS DATA, ETC. PROVIDE AN INDEX AND ASSOCIATED DIVIDERS.
11. CLOSE OUT DOCUMENTS: THE CONTRACTOR IS TO MAINTAIN ONE SET OF CONSTRUCTION DRAWINGS ON SITE AND KEEP CURRENT WITH MARK UP AS-BUILT CONDITIONS DURING CONSTRUCTION OF THE PROJECT. THIS SET IS TO INCLUDE ALL CONTRACT CHANGES, MODIFICATIONS AND CLARIFICATIONS. THIS SET ALONG WITH ALL SHOP DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT/ENGINEER AFTER CONSTRUCTION COMPLETION.
12. IT IS THE RESPONSIBILITY OF ALL BIDDERS TO THOROUGHLY REVIEW AND UNDERSTAND ALL CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO ALL DRAWINGS, SPECIFICATION SECTIONS, ETC. THE DRAWINGS ARE SCHEMATIC IN NATURE. THEREFORE BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL REVIEW ALL OTHER CONSTRUCTION DOCUMENTS, VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE BASE BID SHALL REFLECT THE TOTAL COST OF NEW EQUIPMENT INSTALLATION. THIS INCLUDES LABOR, EQUIPMENT AND MATERIALS. NO CHANGE ORDERS SHALL BE ISSUED WITHOUT WRITTEN CONSENT AND APPROVAL FROM ENGINEER AND ARCHITECT.

FIRE PROTECTION GENERAL NOTES

A. PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.

B. THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.

C. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.

D. PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.

E. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.

F. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.

G. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.

H. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.

I. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

J. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

K. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.

L. AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.

M. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

N. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.

O. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

P. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

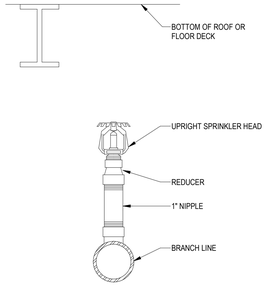
DELEGATED DESIGN REQUIREMENTS

A. THESE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, AS DEFINED PER F.A.C. 61G15-32.002(5), REPRESENT THE OVERALL SCOPE, DESIGN INTENT, AND COVERAGE AREA FOR THE FIRE PROTECTION SYSTEM WITHIN THE PROJECT SCOPE. DELEGATED ENGINEER IS RESPONSIBLE FOR DESIGNING A FIRE PROTECTION SYSTEM FOR THE ENTIRE BUILDING, PERMITTED AND APPROVED PER NFPA AND BY THE AUTHORITY HAVING JURISDICTION.

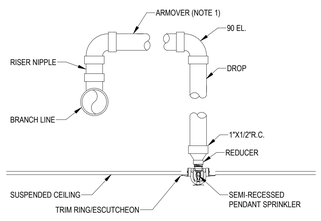
B. DELEGATED ENGINEER SHALL PROVIDE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS TO THE ENGINEER OF RECORD AND AUTHORITY HAVING JURISDICTION, INCLUDING THE FOLLOWING AS APPLICABLE, BUT NOT LIMITED TO:
   a. SPRINKLER SYSTEM DRAWINGS, INCLUDING SPRINKLER SYSTEM LAYOUT, NODE IDENTIFICATION AND NODE SPOT ELEVATIONS.
   b. HYDRAULIC CALCULATIONS AND PIPE SIZES. SIZE PIPING TO PROVIDE AN EXCESS RESIDUAL PRESSURE OF 10 PSI AT THE HYDRAULICALLY MOST DEMANDING POINT AT SYSTEM DESIGN FLOW.
   c. SPRINKLER SYSTEM DESIGN, CALCULATIONS, DETAILED WORKSHEETS, WATER SUPPLY CURVE, AND SPRINKLER SYSTEM DEMAND CURVE.
   d. SPRINKLER HEAD PRODUCT DATA SHEETS WITH SPECIFIC SYSTEM COMPONENTS IDENTIFIED.
   e. ADDITIONAL SPRINKLER SYSTEM SPECIFICATIONS AS REQUIRED FOR COMPLIANCE WITH NFPA 13, CHAPTER 8 PLANS AND CALCULATIONS, PRIOR TO AUTOMATIC SPRINKLER SYSTEMS INSTALLATION.
   f. ALL NECESSARY COMPONENTS, SYSTEMS MATERIALS, ASSEMBLIES, EQUIPMENT, AND SUPPORT SYSTEMS REQUIRED.

C. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF RISERS, CROSS MAINS, BRANCH LINES, AND SPRINKLER HEADS WITH ALL OTHER TRADE SYSTEMS TO AVOID CONFLICTS AND MAINTAIN ARCHITECTURAL ELEMENTS OF THE BUILDING.

D. COORDINATE SPRINKLER HEAD TYPES AND LOCATIONS WITH ARCHITECTURAL FINISHES AND OTHER CEILING MOUNTED DEVICES.

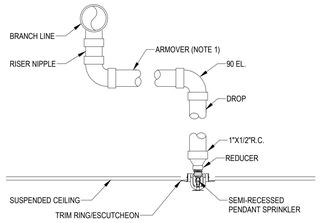


1 / F-000 UPRIGHT SPRINKLER HEAD
NO SCALE



NOTE:
1. PROVIDE HANGER FOR ARMOVERS GREATER THAN 24" IN LENGTH.

2 / F-000 RETURN BEND ASSEMBLY
NO SCALE



NOTE:
1. PROVIDE HANGER FOR ARMOVERS GREATER THAN 24" IN LENGTH.

3 / F-000 SWING ARM ASSEMBLY DETAIL
NO SCALE

MECHANICAL SHEET INDEX

Title Sheet Revision	
Revisions:	Date:

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11/1/2023

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRE PROTECTION NOTES, LEGENDS AND DETAILS	Phase: BID SET	Project Title: ADDRESS VIERA SITE DEFICIENCIES	Project Number: 675-23-151
Approved:	Location: VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940		Building Number: Chiller Building
		Issue Date: NOV. 3, 2023 / Checked: NPS / Drawn: MR	Drawing Number: F-000

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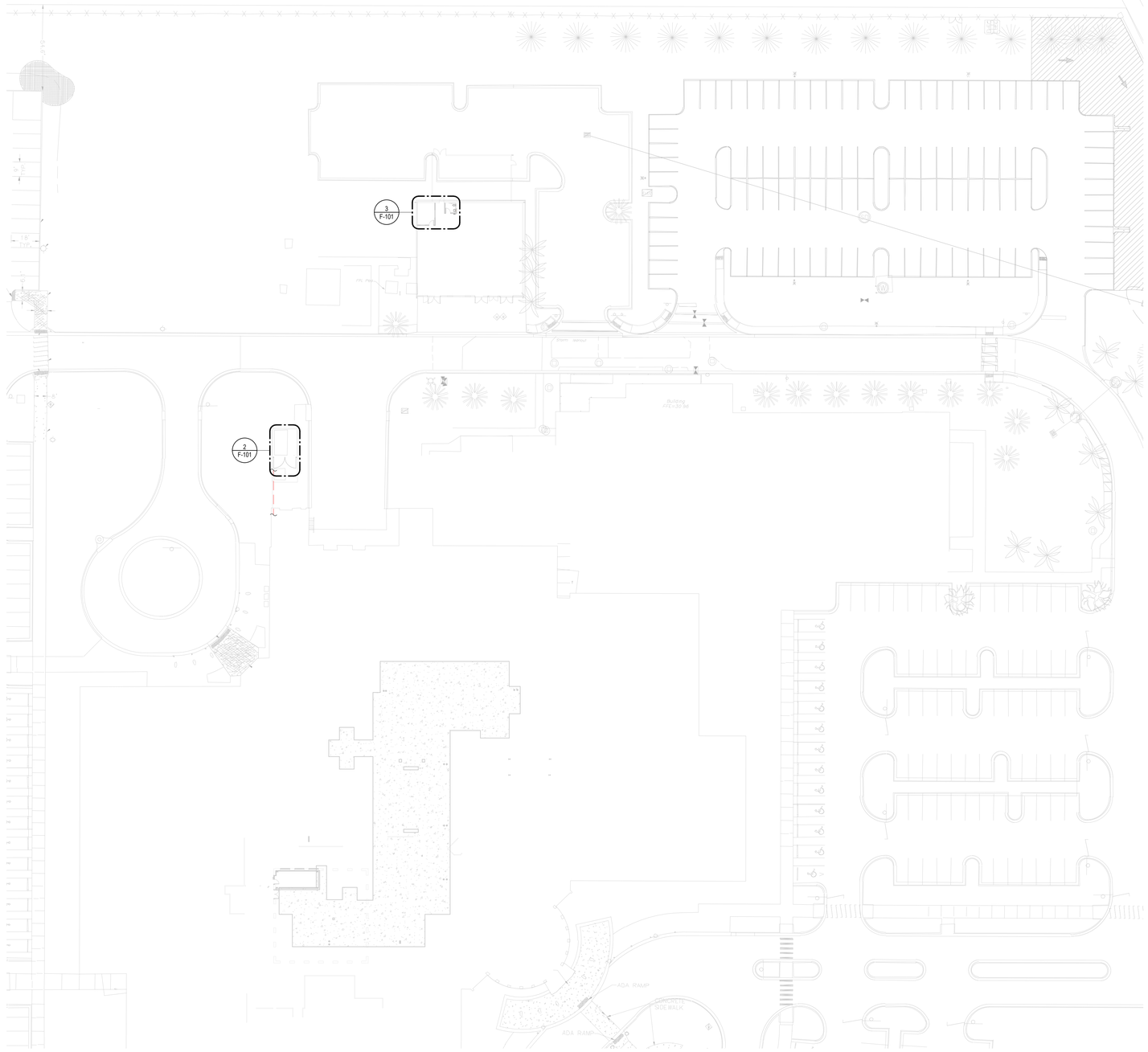
FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA

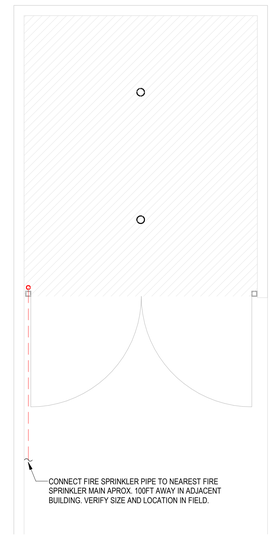
HAZARD SYMBOL	SPACE TYPE	HAZARD CLASSIFICATION	SYSTEM TYPE	DISCHARGE DENSITY	REMOTE AREA	MAXIMUM COVERAGE AREA PER SPRINKLER	MAXIMUM SPACING	WATER SUPPLY DURATION	OUTSIDE HOSE ALLOWANCE	TEMPERATURE CLASSIFICATION	SPRINKLER TYPE	NOTES
				GPM/FT²	FT²	FT²	FT.	MINUTES	GPM			
	GENERAL, EXCEPT AS LISTED BELOW	LIGHT HAZARD	WET PIPE	0.10	1,500	225	15	30	100	ORDINARY	SEMI-RECESSED PENDENT, QUICK RESPONSE, UL LISTED	1
	STORAGE	ORDINARY HAZARD GROUP 1	WET PIPE	0.15	1,500	130	15	60-90	250	ORDINARY	SEMI-RECESSED PENDENT OR UPRIGHT, QUICK RESPONSE, UL LISTED	1

NOTES:

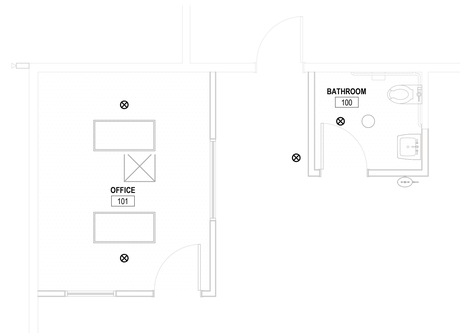
1. WATER DEMAND REQUIREMENTS ARE FOR HYDRAULIC CALCULATION METHOD. IF OTHER METHOD IS USED ADJUST VALUES ACCORDING TO NFPA 13 REQUIREMENTS.



1 F-101 SITE PLAN
1/32" = 1'-0"



2 F-101 ENLARGED ENCLOSURE FIRE PROTECTION PLAN
1/4" = 1'-0"



3 F-101 ENLARGED OFFICE AND RESTROOM FIRE PROTECTION PLAN
1/4" = 1'-0"

Revisions:	Date:

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title FIRE PROTECTION PLANS	**Phase** BID SET	**Project Title** ADDRESS VIERA SITE DEFICIENCIES	**Project Number** 675-23-151
Approved:	**Location** VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940		**Building Number** Chiller Building
		Issue Date NOV. 3, 2023 / **Checked** NPS / **Drawn** MR	**Drawing Number** F-101

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GENERAL

- KEY NOTE REFERENCE SYMBOL
- FOOT ON DEVICE INDICATES WALL MOUNTED
- XXX-XXX — MARK NUMBER FOR MECHANICAL EQUIPMENT
- XXX-XXX

CIRCUIT DESIGNATIONS

PANEL NAME
CIRCUIT NUMBER(S)
1LN1-1,3,5

- BRANCH CIRCUIT HOMERUN. PROVIDE #12 PHASE, #12 NEUTRAL AND #12 GROUND CONDUCTORS FOR EACH INDICATED CIRCUIT UNLESS NOTED OTHERWISE. SEE GENERAL NOTE #2 AND #3. NO MULTI-WIRE BRANCH CIRCUITS PERMITTED. NO SHARED NEUTRAL.
- CONDUIT RUN CONCEALED IN CEILING OR WALL
- CONDUIT RUN BELOW GRADE, UNDER OR CONCEALED IN FLOOR SLAB, UNDER RAISED FLOOR
- CONDUIT RISER UP
- CONDUIT RISER DOWN
- INDICATES CIRCUIT CONTINUATION
- STUB INTO ACCESSIBLE CORRIDOR CEILING SPACE UNLESS OTHERWISE NOTED
- CAP END OF CONDUIT
- CONDUIT SLEEVE

POWER CONDUIT FILL EXAMPLE

(2) 4"C, 4 #500, 1#10G

- GROUND CONDUCTOR SIZE (AWG/KCMIL)
- QUANTITY OF GROUND CONDUCTORS (ASSUME QTY 1 IF NOT INDICATED)
- CONDUCTOR SIZE (AWG/KCMIL)
- QUANTITY OF PHASE AND NEUTRAL CONDUCTORS. NEUTRAL CONDUCTOR MAY BE SPECIFIED SEPARATELY WITH 'N' SUFFIX
- CONDUIT SIZE (SEE SPECIFICATIONS FOR ALLOWED TYPES)
- TOTAL QUANTITY OF IDENTICAL CONDUIT/WIRE RUNS AS SPECIFIED (AS APPLICABLE)

LIGHTING

GENERAL LIGHTING FIXTURE DESIGNATIONS (TYPICAL FOR ALL FIXTURES)

23 — L3 — S

- CIRCUIT NUMBER
- LUMINAIRE TYPE
  - DENOTED BY UPPER CASE ALPHANUMERIC DESIGNATION. REFER TO LIGHTING FIXTURE SCHEDULE.
  - "(R)" DENOTES EXISTING RELOCATED FIXTURE. REFER TO DEMOLITION DRAWINGS FOR EXISTING TO BE RELOCATED FIXTURES
- SWITCHING CONTROL ZONE (WHERE APPLICABLE)
  - LOWER CASE ALPHANUMERIC SUBSCRIPT MATCHES DESIGNATION OF CORRESPONDING SWITCHING CONTROL DEVICE (USED ONLY WHERE NECESSARY FOR CLARIFICATION).
  - 'NL' INDICATES NIGHT LIGHT, CONNECT TO HOT LEG (NON-SWITCHED)

GENERAL LIGHTING FIXTURE NORMAL/EMERGENCY BRANCH CIRCUIT DESIGNATIONS (TYPICAL FOR ALL LIGHTING FIXTURES)

- LUMINAIRE CONNECTED TO NORMAL BRANCH
- LIFE SAFTEY LUMINAIRE. REFER TO FIXTURE SCHEDULE. WHERE FURNISHED WITH EMERGENCY SELF-DIAGNOSTIC BATTERY/ INVERTER BALLAST/DRIVER. PROVIDE BATTERY SHALL BE CAPABLE OF 100% OUTPUT FOR 90 MINUTES. WHERE NOT FURNISHED WITH INTEGRAL BATTERY BACKUP FIXTURE SHALL BE FED FROM GENERATOR BACKED LIFE SAFTEY BRANCH CIRCUIT.

DEMOLITION AND REMODEL

NOTES:
THE FOLLOWING SYMBOLS ARE EXAMPLES INTENDED TO SHOW METHODOLOGY FOR DEMOLITION. THIS APPROACH IS APPLICABLE TO ALL SYMBOLS INDICATED ON THIS SHEET.

- NEW - SHOWN HERE FOR REFERENCE AS A COMPARISON AGAINST EXISTING AND DEMO ITEMS
- EXISTING ELECTRICAL ITEM TO BE REMOVED (BOLD AND DASHED)
- EXISTING ELECTRICAL ITEM TO BE RELOCATED. HALFTONE (R) INDICATES NEW LOCATION
- EXISTING ELECTRICAL ITEM TO REMAIN. HALFTONE.

LIGHTING FIXTURE DESCRIPTIONS

- RECESSED OR SURFACE MOUNTED LUMINAIRE
- RECESSED OR SURFACE MOUNTED ROUND DOWNLIGHT LUMINAIRE
- STRIP LIGHT, SURFACE MOUNTED (LENGTH AS SHOWN ON PLANS)
- LINEAR LUMINAIRE, SURFACE OR RECESSED (SOLID) OR PENDANT (DASHED) MOUNTED (LENGTHTYPE AS SHOWN ON PLANS)
- LINEAR LUMINAIRE, WALL MOUNTED (LENGTH AS SHOWN ON PLANS)
- WALL SCONCE LUMINAIRE
- SUSPENDED TRACK LIGHT, TRACK HEAD QUANTITY AS SHOWN ON PLANS
- COVE LIGHT. PLACE IN ARCHITECTURAL COVE. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- DENOTES DIRECTION OF LIGHT DISTRIBUTION. PROVIDE DIRECTIONAL LIGHT THROW (WALL WASH EFFECT) WHERE SHOWN.
- EXIT SIGN CEILING OR WALL MOUNTED AS INDICATED
- INDICATES DIRECTIONAL CHEVRON FOR EXIT SIGNS.
- DENOTES LOCATION(S) OF ILLUMINATED EXIT FACE
- EMERGENCY TWIN HEAD FLOOD LIGHTING 'BUG EYE' UNIT WITH INTEGRAL BATTERY PACK

LIGHTING CONTROLS DEVICES

WALL MOUNTED CONTROL DEVICE

- INDICATES NUMBER OF LIGHTING CONTROL ZONES/POLES) - (AS APPLICABLE) PROVIDE INDEPENDENT CONTROLS FOR EACH ZONE
- SWITCH TYPE DESIGNATION
  NO SUBSCRIPT - SINGLE POLE TOGGLE SWITCH WITH ON/OFF CONTROL.
  D - DIMMING CONTROL
  O - WALL MOUNTED PIR OCCUPANCY SENSOR, WITH MANUAL ON/OFF CONTROL
  OD - WALL MOUNTED PIR OCCUPANCY SENSOR, WITH MANUAL DIMMING CONTROL
  OWD - WALL MOUNTED DT OCCUPANCY SENSOR, WITH MANUAL ON/OFF CONTROL
  ODD - WALL MOUNTED DT OCCUPANCY SENSOR, WITH MANUAL DIMMING CONTROLS
  LCD - INTERACTIVE LCD DISPLAY SCREEN FOR LIGHTING CONTROLS
  WP - WEATHER PROOF ENCLOSURE
  XP - EXPLOSION PROOF (SEE PLANS FOR CLASSIFICATION REQUIREMENTS)
  K - KEYED SWITCH
  WHERE DIMMING IS SPECIFIED PROVIDE 0-10V DIMMING CONTROL. SUPPLIER TO CONFIRM DIMMING COMPATIBILITY BETWEEN FIXTURES AND CONTROLS
- ALPHANUMERIC CODE INDICATING LIGHTING CONTROL ZONE DESIGNATION. WHERE MULTIPLE CONTROL ZONES ARE INDICATED LIGHTING CONTROL DEVICE SHALL BE CAPABLE OF CONTROLLING EACH ZONE INDEPENDENTLY, MULTIPLE ZONES SHALL BE SEPARATED BY A COMMA (I.E. a,a1,b,d...)

LIGHTING CONTROL SENSORS/DEVICES

- **CEILING MOUNTED SENSOR**
- **WALL MOUNTED SENSOR**
- SENSOR TYPE DESIGNATION
  OC - NORMAL RANGE OCCUPANCY SENSOR, PIR, 12FT RADIUS COVERAGE AT 9FT AFF
  OCX - EXTENDED RANGE OCCUPANCY SENSOR, PIR, 28FT RADIUS COVERAGE AT 9FT AFF
  OCD - NORMAL RANGE OCCUPANCY SENSOR, DUAL TECHNOLOGY, 12FT RADIUS COVERAGE AT 9FT AFF
  OCDX - EXTENDED RANGE OCCUPANCY SENSOR, DUAL TECHNOLOGY, 28FT RADIUS COVERAGE AT 9FT AFF
  OCH - HIGH MOUNT OCCUPANCY SENSOR, PIR, 20FT RADIUS COVERAGE AT 15FT AFF, 35FT RADIUS AT 45FT AFF
  DC - DAYLIGHT HARVESTING PHOTOCELL. PROVIDE DIMMING WHEN USED WITH DIMMING CONTROLS. WHERE MOUNTED OUTSIDE. INSTALL ON ROOF AND POINT NORTH.

- LIGHTING CONTROL SEQUENCE OF OPERATIONS
  E - EMERGENCY RELAY
  TYPE:
  1 - MANUAL SWITCHING ONLY
  2 - OCCUPANCY SENSOR LOCATED IN WALL SWITCH
  3 - OCCUPANCY SENSOR LOCATED IN CEILING
  4 - OCCUPANCY SENSORS AND AUTOMATIC DAYLIGHTING
  5 - OCCUPANCY SENSOR LOCATED IN CEILING AND PLUG CONTROL
  6 - OCCUPANCY SENSOR LOCATED IN CEILING, AUTOMATIC DAYLIGHTING AND PLUG CONTROL
  CONTROL TYPE
  D - DIMMING
  S - ON/OFF ONLY
  NUMBER OF ZONES

POWER DISTRIBUTION

- 480/277V OR 480V PANEL — 208/120V OR 120/240V PANEL
- INDICATES REQUIRED CLEARANCE
- TABS INDICATE FLUSH MOUNTED PANEL
- 30A/3P — HEAVY DUTY DISCONNECT SWITCH
- 30A/3P, 20AF — FUSED DISCONNECT SWITCH
- 30A/3P — ENCLOSED CIRCUIT BREAKER
- MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION.
- C — CONTACTOR
- VFD — VARIABLE FREQUENCY DRIVE
- 1 — MOTOR - WITH DISCONNECT (WHERE SHOWN IN PLANS) MOTOR DESIGNATION SHOWN IN BOX.
- 30A/3P, 1 — CONTROL PANEL FURNISHED BY OTHERS, INSTALLED BY DIVISION 26, UNLESS NOTED OTHERWISE
- 1 — REDUCED VOLTAGE MOTOR STARTER NUMBER REFERS TO NEMA STARTER SIZE
- 30A/3P, 1 — COMBINATION REDUCED VOLTAGE MOTOR STARTER/DISCONNECT NUMBER REFERS TO NEMA STARTER SIZE
- 30A/3P, 1 — COMBINATION 2 SPEED MOTOR STARTER/DISCONNECT
- MOTOR - WITH DISCONNECT (WHERE SHOWN IN PLANS) MOTOR DESIGNATION SHOWN IN BOX.
- CP — CONTROL PANEL FURNISHED BY OTHERS, PROVIDED AND INSTALLED BY DIVISION 26, UNLESS NOTED OTHERWISE
- PUSHBUTTON STATIONS. ONE, TWO, OR THREE AS INDICATED
- EMERGENCY POWER OFF BREAK GLASS STATION
- BUS DUCT, FEEDER OR PLUG-IN TYPE AS INDICATED
- 12x3 — CABLE TRAY - WIDTH x HEIGHT AS INDICATED, OR KEY NOTED
- UNDER FLOOR DUCT SYSTEM
- JUNCTION BOX, ABOVE CEILING (NO FOOT) OR FLUSH WALL MOUNTED (WITH FOOT)
  T = JUNCTION BOX FOR VOICE/DATA
- JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT INDICATED AND REQUIRED
- LADDER STYLE CABLE TRAY, 4IN TALL FOR POWER, 2IN TALL FOR DATA/SIGNAL U.O.N. WIDTH AS SHOWN ON DRAWINGS.
- CONDUIT - SEE SPECIFICATIONS.

POWER ONE-LINE DIAGRAM

- 200AT / 200AF / N.C. 100% — CIRCUIT BREAKER, AMP TRIP, FRAME AND OPTIONS AS INDICATED, 3P U.O.N.
- 200AT/3P — FUSE, AMP RATING (AT) AS INDICATED, 3-POLES, (1) FUSE PER POLE U.O.N.
- 200AF/3P — DISCONNECT SWITCH. SIZE (AF) AS INDICATED. 3-POLE U.O.N.
- 100AT/200AF — FUSIBLE DISCONNECT SWITCH. AMP FUSE (AT) AND SWITCH RATING (AF) AS INDICATED. 3-POLES WITH (1) FUSE PER POLE U.O.N.
- 480V/100A/4P, 25KA WCR — AUTOMATIC TRANSFER SWITCH AMPACITY, VOLTAGE, NUMBER OF POLES, WITHSTAND RATING AS INDICATED
- 800AT/800AF — LOW VOLTAGE DRAW-OUT CIRCUIT BREAKER. AMP TRIP (AT), AMP FRAME (AF)AND OPTIONS AS INDICATED. 3-POLES U.O.N.
- 800AT/800AF/3P — MEDIUM VOLTAGE DRAW-OUT CIRCUIT BREAKER. AMP TRIP, AMP FRAME AND POLES AS INDICATED.
- TRANSFORMER
  PRIMARY (DELTA U.O.N) AND SECONDARY (WYE U.O.N)
  VOLTAGES AS SHOWN
  KVA RATING AS SHOWN
  SEE TRANSFORMER SCHEDULE FOR ADDITIONAL REQUIREMENTS
- XXX — 3 LA'S — LIGHTNING ARRESTERS
- PANELBOARD/ DISTRIBUTION BOARDS
- M — METER WITH CURRENT TRANSFORMER
  M - UTILITY OR OWNER METER
  AM- A.C. AMMETER
  VM- A.C. VOLTMETER
  FM- FREQUENCY METER
  WM- WATTMETER
- AS — SELECTOR SWITCHES
  AS - AMMETER PHASE
  VS - VOLTMETER PHASE
  WS - WATTMETER
- DM — DIGITAL METERING
- CURRENT TRANSFORMER
- MOTOR, HP AS SHOWN
- POTENTIAL TRANSFORMER
- CONNECTION TO GROUND BARE # 4/0CU.U.N.O
- KI — KEY INTERLOCK - WITHDRAWN KEY
- KI — KEY INTERLOCK - CAPTIVE KEY
- KEY DESIGNATION - PROVIDE ONE LESS KEY THAN LOCKS (KIRK KEY OR EQUIVILENT)
- SERVICE ENTRANCE SECTION OR OTHER LARGE SWITCHBOARD OR DISTRIBUTION BOARD. RATINGS, BREAKER QTY AND SIZE, NAMES ETC. AS INDICATED ON PLANS
- EXISTING SERVICE ENTRANCE SECTION OR OTHER LARGE SWITCHBOARD/DISTRIBUTION BOARD. RATINGS, BREAKER QTY AND SIZE, NAMES ETC. AS INDICATED ON PLANS. ANY NEW WORK WITHIN EXISTING EQUIPMENT WILL BE BOLD AND NOTATED AS NEW.
- 175-4-CU — EQUIPMENT FEEDER TAG - REFER TO FEEDER SCHEDULE FOR REQUIREMENTS
- 175-4-CU, #4(CU)G — TRANSFORMER FEEDER TAG - REFER TO FEEDER SCHEDULE PHASE, NUETRAL AND CONDUIT REQUIRMENTS. GROUND SHALL BE AS INDICATED IN TAG.

MOUNTING HEIGHT NOTES

- 10'-0" — BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED LIGHT HEADS (OR 1'-0" BELOW FINISHED CEILING AT TOP OF UNIT)
- WARNING AND SIGNALING FIXTURES/SIGNS (CENTERED 6IN. ABOVE DOOR/WINDOW)
- 7'-0" — CLOCK RECEPTACLES
- 6'-8" — BOTTOM LENS FOR WALL MOUNTED FIRE ALARM STROBES SPEAKERS, HORNS AND COMBINATION HORN/STROBES
- 6'-0" — TOP OF FLUSH AND SURFACE MOUNTED PANELBOARDS AND TELEPHONE CABINETS. TOP OF HIGHEST DISCONNECT SWITCHES, MAGNETIC STARTERS, CONTACTORS, ATS.
- 5'-6" — GENERATOR REMOTE ANNUNCIATOR
- 3'-10" — WALL MOUNTED LIGHTING SWITCHES, MANUAL MOTOR STARTERS, FIRE ALARM PULL STATIONS, WALL MOUNTED TELEPHONES.
- 24" — GARAGE RECEPTACLES
- 18" — ELECTRICAL RECEPTACLES, VOICE/DATA OUTLETS, DATA OUTLETS, UNO
- 0.0" — FINISHED FLOOR

MOUNTING HEIGHT NOTES: MOUNTING HEIGHTS TO FINISHED FLOOR TO CENTER OF OUTLETS, UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. ALL DEVICE MOUNTING HEIGHTS INDICATED ON THIS LEGEND ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
2. PROVIDE #10 WIRE (FOR PHASE, NEUTRAL AND GROUND) FOR ALL 20A 120V CIRCUITS EXCEEDING 75 FEET AND FOR 20A 277V CIRCUITS THAT EXCEED 150 FEET. PROVIDE #8 WIRE (FOR PHASE, NEUTRAL AND GROUND) FOR ALL 20A 120V CIRCUITS EXCEEDING 150 FEET AND FOR ALL 20A 277V CIRCUITS EXCEEDING 250 FEET.
3. CONTRACTOR MAY COMBINE UP TO (3) 20A (SINGLE POLE) RECEPTACLE CIRCUITS WITHIN A SINGLE CONDUIT. CONDUIT SHALL NOT BE LESS THAN 3/4". WIRING CONFIGURATIONS SHALL BE AS FOLLOWS: (FOLLOW WIRE UPSIZING TO ACCOMMODATE VOLTAGE DROP DUE TO LENGTH AS INDICATED IN NOTE #2.)
   - FOR 3 CIRCUITS, 20A, HOMERUNS TO PANELS SHALL BE 3#12 PHASE CONDUCTORS, 3# 12 NEUTRAL CONDUCTORS AND 1#12 GROUND. (WHEN UPSIZING FOR VOLTAGE DROP AS INDICATED IN NOTE #2 REQUIRES 3#8 PHASE CONDUCTORS, 3#8 NEUTRAL CONDUCTORS AND 1#8 GROUND UTILIZE 1"C IN LIEU OF 3/4"C).
   - FOR 2 CIRCUITS, 20A, HOMERUNS TO PANELS SHALL BE 2#12 PHASE CONDUCTORS, 2# 12 NEUTRAL CONDUCTORS, AND 1 #12 GROUND.
   - 1 CIRCUIT, 20A, HOMERUNS TO PANEL SHALL BE 1#12 PHASE CONDUCTOR, 1#12 NEUTRAL CONDUCTOR AND 1#12 GROUND.
4. VERIFY LOCATION AND CONNECTION REQUIREMENTS FOR EQUIPMENT PROVIDED BY OTHER TRADES PRIOR TO ROUGH-IN.
5. COORDINATE CEILING MOUNTED LIGHTS AND DEVICES WITH CEILING CONTRACTOR AND INSTALL AS SHOWN ON THE REFLECTED CEILING/LIGHTING PLANS.
6. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT (SWITCHGEAR, SWITCHBOARDS, FREE STANDING PANELBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC.) SHALL BE INSTALLED ON 4" HIGH CONCRETE PAD. CONCRETE PAD SHALL EXTEND PAST EDGE OF EQUIPMENT 2" ON EACH SIDE U.N.O.
7. COORDINATE ALL DIMENSIONS, ELECTRICAL POINT OF CONNECTIONS, AND WIRING REQUIREMENTS ON ALL PRE-PURCHASED EQUIPMENT WITH FINAL APPROVED SHOP DRAWINGS.
8. FIRE SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND SLABS. FIRE RATING SEAL SHALL BE EQUAL TO OR GREATER THAN THE FIRE RATING OF THE WALL OR SLAB THROUGH WHICH THE CONDUIT PASSES.
9. COORDINATE THE LOCATION AND MOUNTING HEIGHTS OF OUTLETS AND MULTI-OUTLET ASSEMBLIES WITH ARCHITECTURAL FLOOR PLANS AND ELEVATION DRAWINGS.
10. CONTRACTOR SHALL VERIFY ALL DOOR SWINGS BEFORE INSTALLING SWITCH/LIGHTING CONTROL BOXES. DO NOT PLACE SWITCH OR LIGHTING CONTROL DEVICE BEHIND DOOR SWING.
11. FOR MOUNTING HEIGHT OF UNDER-SHELF/CABINET LIGHTING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
12. COORDINATE EXACT LOCATION OF SUSPENDED LIGHTING FIXTURES IN MECHANICAL AND STORAGE AREAS WITH OTHER TRADES. DO NOT PLACE LIGHTING FIXTURE DIRECTION ABOVE MECHANICAL EQUIPMENT OR DUCTS.
13. RACEWAYS, SLEEVES, AND BOXES FOR IT CABLING SHALL COMPLY WITH COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATION PATHWAYS AND SPACES, ANSI/TIA/EIA-569-A.
14. BOND FLAMMABLE LIQUID STORAGE CABINETS WITH #10 AWG WIRE TO THE NEAREST STEEL COLUMN. INSTALL WIRE IN CONDUIT.

POWER OUTLETS

TYPICAL OUTLET SYMBOL CONCTATING NOTES

CIRCUIT NUMBER — 2 — IG — TYPE — +30" — ELEVATION AFF

TYPICAL OUTLET SYMBOL NOTES

- *** — -STAR SYMBOL INDICATES DEVICE IS MOUNTED 4" ABOVE COUNTER, CASEWORK, BACKSPLASH OR 48" IF NOTHING BELOW.
- "+84" — -INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.
- "IG" — -ISOLATED GROUND
- "WP" — -WEATHER PROOF
- "XP" — -EXPLOSION PROOF

NOTES:

1. OUTLETS LOCATED AT COUNTERS SHALL BE LOCATED 18" AFF IN KNEE SPACE IF PROVIDED OR 4" ABOVE COUNTER OR BACK SPLASH AS APPLICABLE IF NO KNEE SPACE IS PROVIDED UNLESS NOTED OTHERWISE.

- 20A, 125V, 2 POLE, 3 WIRE GROUNDING SIMPLEX RECEPTACLE
- 20A, 125V, 2 POLE, 3 WIRE GROUNDING DUPLEX RECEPTACLE
- 20A, 125V, 2 POLE, 3 WIRE GROUNDING DOUBLE DUPLEX RECEPTACLE
- 20A, 125V, 2 POLE 3 WIRE GROUNDING DUPLEX RECEPTACLE WITH (2) INTEGRAL USB CHARGING PORTS
- S — HALF SWITCHED RECEPTACLE - LOWER OUTLET SWITCHED VIA CONTROL ZONE INDICATED OR NEAREST OCCUPANCY SENSOR. UPPER OUTLET IS UNSWITCHED - ALWAYS HOT
- 20A, 125V, 2 POLE 3 WIRE GROUNDING DUPLEX RECEPTACLE CONNECTED TO CRITICAL BRANCH
- 20A, 125V, 2 POLE, 3 WIRE GROUNDING GFCI DUPLEX RECEPTACLE
- 20A, 125V, 2 POLE, 3 WIRE GROUNDING GFCI RECEPTACLE WITH WHILE IN USE WEATHERPROOF ENCLOSURE.
- 20A, 125V, 2 POLE 3 WIRE GROUNDING GFCI DUPLEX RECEPTACLE CONNECTED TO CRITICAL BRANCH
- SPECIAL OUTLET. REFER TO SCHEDULE FOR REQUIREMENTS.
- CEILING MOUNTED RECEPTACLE, TYPE AS INDICATED ABOVE.
- PEDESTAL MOUNTED DUPLEX OR DOUBLE DUPLEX CONVENIENCE RECEPTACLE.
- FLOOR BOX - WITH DUPLEX OR DOUBLE DUPLEX RECEPTACLE
- FLOOR BOX WITH POWER AND DATA FURNITURE FEED CONNECTIONS. FURNITURE FEED CIRCUIT QUANTITY AS INDICATED ON PLANS.
- 5M — ELECTRICAL POWER SWITCH
  M - MOTOR RATED WITH INTEGRAL THERMAL OVERLOADS U.O.N.
- (18"/18") — SURFACE MOUNTED ENCLOSED DIVIDED RACEWAY FOR POWER AND DATA.
  DUPLEX SPACING (20A, 125V, 2 POLE, 3 WIRE GROUNDING DUPLEX RECEPTACLE U.O.N)
  DATA OUTLET SPACING (PROVISINS FOR NOT LESS THAN 4 PORTS U.O.N)
- POWER / TELECOM. POLE. PROVIDE JUNCTION BOX ABOVE CEILING FOR POWER CONNECTION (CIRCUIT QUANTITY AS NOTED ON PLANS) FOR FOR TELECOM/DATA CONNECTIONS (1 PER ASSOCATED WORKSTATION) CONNECT TO WIRING IN POWER POLE.
- EXTENSION CORD REEL
- UNISTRUT RACK

ABBREVIATIONS

A, AMP - AMPERES	MCC - MOTOR CONTROL CENTER
AF - AMP FUSE OR AMP FRAME	MH - MANHOLE
AFC - AVAILABLE FAULT CURRENT (SYMMETRICAL)	MLO - MAIN LUGS ONLY
AFF - ABOVE FINISHED FLOOR	N.C. - NORMALLY CLOSED
AIC - AMPERE INTERRUPTING CAPACITY	NEC - NATIONAL ELECTRICAL CODE
AM - AMMETER	NIC - NOT IN CONTRACT
AS - AMP SWITCH	NIS - NOT IN SCOPE OF THIS PROJECT
ASYM - ASYMMETRICAL	NF - NON FUSIBLE
AT - AMP TRIP	NL - NIGHT LIGHT
ATS - AUTOMATIC TRANSFER SWITCH	N.O. - NORMALLY OPEN
AWG - AMERICAN WIRE GAUGE	NTS - NOT TO SCALE
BOF - BOTTOM OF FIXTURE	OCP - OVER CURRENT PROTECTION
B.S.C - BARE STRANDED COPPER CONDUCTOR	OL - OVERLOADS
C - CONDUIT	P - POLE
CAP - CAPACITY OR CAPACITOR	PB - PULLBOX
CATV - COMMUNITY ANTENNA TV	PH, Ø - PHASE
CB - CIRCUIT BREAKER	PNL - PANEL
CCTV - CLOSED CIRCUIT TELEVISION	POC - POINT OF CONNECTION
cd - CANDELA	PVC - POLYVINYL CHLORIDE
CL - CURRENT LIMITING	PWR - POWER
CU - COPPER	RCPT. - RECEPTACLE
DISC - DISCONNECT	RGS - RIGID GALVANIZED STEEL
DPST - DOUBLE POLE SINGLE THROW	SOL - SOLENOID
EC - ELECTRICAL CONTRACTOR	SPDT - SINGLE POLE DOUBLE THROW
EWC - ELECTRIC WATER COOLER	SPKR - SPEAKER
ELEC - ELECTRIC OR ELECTRICAL	SPST - SINGLE POLE SINGLE THROW
EM - EMERGENCY	SW - SWITCH
EPO - EMERGENCY POWER OFF	SWBD - SWITCHBOARD
EMT - ELECTRICAL METAL TUBING	SYM - SYMMETRICAL
FLA - FULL LOAD AMPERES	TEL - TELEPHONE
GRC - GALVANIZED RIGID CONDUIT	TGB - TELECOMMUNICATIONS GROUNDING BUSBAR
GEC - GROUNDING ELECTRODE CONDUCTOR	TMB - TELEPHONE MOUNTING BOARD (PLY-WOOD)
GEN - GENERATOR	TTB - TELEPHONE TERMINAL BACKBOARD
GFCI - GROUND FAULT CIRCUIT INTERRUPTER	TV - TELEVISION
GFI - GROUND FAULT INDICATION	TYP - TYPICAL
GFP - GROUND FAULT PROTECTION	UG - UNDERGROUND
GND, G - GROUND	UNO/UNO - UNLESS OTHERWISE NOTED
HOA - HAND-OFF-AUTO	V - VOLT
HP - HORSEPOWER	VA - VOLT AMPERES
IMC - INTERMEDIATE METAL CONDUIT	VD - VOLTAGE DROP
IG - ISOLATED GROUND	VM - VOLT METER
JB - JUNCTION BOX	VS - VOLT METER SWITCH
KAIC - THOUSAND AMPERE INTERRUPTING CAPACITY	W - WATTS OR WIRE
KVA - KILOVOLT AMPERES	W/ - WITH
KW - KILOWATT	W/O - WITHOUT
KWH - KILOWATT HOUR	WP - WEATHERPROOF
LED - LIGHT EMITTING DIODE	XFMR - TRANSFORMER
LTG - LIGHTING	XP - EXPLOSION PROOF
LV - LOW VOLTAGE	
MCA - MINIMUM CIRCUIT AMPS	
MCB - MAIN CIRCUIT BREAKER	

NOTE:
SYMBOLS SHOWN ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A CHECK LIST OF DEVICES REQUIRED BY THE CONTRACT

CODES AND STANDARDS

ALL OF THE FOLLOWING ARE HEREBY MADE PART OF THESE SPECIFICATIONS. THEY SHALL BE SATISFIED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER

GENERAL	EDITION
NATIONAL ELECTRICAL CODE (NFPA 70)	LATEST
LOCAL AND STATE CODES AND AMENDMENTS	VA TIL
OWNER SPECIFICATIONS AND STANDARDS	VA
AMERICANS WITH DISABILITIES ACT (ADA)	LATEST
INTERNATIONAL BUILDING CODE (IBC)	LATEST
INTERNATIONAL MECHANICAL CODE (IMC)	LATEST
ELEVATOR CODE	LATEST
FIRE AND LIFE SAFETY CODES	**EDITION**
INTERNATIONAL FIRE CODE	LATEST
NFPA 72 - NATIONAL FIRE ALARM CODE	LATEST
NFPA 101 - LIFE SAFETY CODE	LATEST
NFPA 13 - FIRE SPRINKLER CODE	LATEST
ENERGY AND LIGHTING CODES	**EDITION**
IECC	2018

ELECTRICAL SHEET LIST

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	SYMBOLS AND ABBREVIATIONS
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	-
Approved:	
	VIERA, MELBOURNE VA MEDICAL CENTER, 2900 VETERENS WA, MELBOURNE, FL 32940
Location	13000 BRUCE B DOWN BLVD, TAMPA, FL 33612
Issue Date	NOV. 3, 2023
Checked	AESUS
Draw	AESUS
Drawing Number	EP-000

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VA FORM 08 - 6231

GENERAL NOTES

A. SEE DRAWING E-001 AND E-002 FOR SYMBOLS AND ABBREVIATIONS AND ADDITIONAL REQUIREMENTS

B. ANY AND ALL POTENTIAL UTILITY OR SYSTEM SHUTDOWNS/OUTAGES SHALL BE COORDINATED WITH THE OWNER AND ENGINEER. NO SHUTDOWNS CAN OCCUR WITHOUT PRIOR PERMISSION FROM THE OWNER. ANY REQUIRED SHUT DOWNS/ELECTRICAL OUTAGES AND/OR DEMOLITION SHALL BE PHASED AND COORDINATED WITH NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE SHUT DOWNS AND ALL DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE AND THE OWNER'S PHASING REQUIREMENTS.

C. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ENGINEER OF RECORD IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.

D. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. PROVIDE CURTAINS, AS REQUIRED, TO CORDON OFF THE CONSTRUCTION AREA AND TO MINIMIZE DISRUPTIONS TO THE BUILDING OPERATIONS.

E. THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITION COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

F. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION FOR ALL EXISTING RECEPTACLES, LUMINAIRES AND ALL ELECTRICAL DEVICES SCHEDULED TO REMAIN.

G. NOTIFY THE ENGINEER OF RECORD IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR BURIED UNDERGROUND OR EMBEDDED INSTRUCTOR WALLS.

H. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

I. CONTRACTOR TO CONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCOVERIES OR DISCREPANCIES THAT ARE NOT SHOWN PRIOR TO COMMENCING WORK ". OR "ANY ELECTRICAL DEVICE OR EQUIPMENT NOT NOTED TO BE REMOVED OR RELOCATED SHALL REMAIN UNCHANGED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE ARCHITECT/ENGINEER REGARDING ANY ITEM IN QUESTION"

J. WHERE ITEMS ARE NOTED TO BE REMOVED, ELECTRICAL CONTRACTOR SHALL:
   A. REMOVE INDICATED ITEM
   B. REMOVE ANY ASSOCIATED CONDUIT AND WIRING WHERE SURFACE MOUNTED OR ABOVE AN ACCESSIBLE CEILING
   C. PULL OUT ASSOCIATED WIRING, CUT OFF, CAP, AND ABANDON CONDUIT WHERE CONCEALED IN WALLS OR PARTITIONS WHICH ARE REMAINING. PATCH AND REPAIR WALLS AS REQUIRED.
   D. REMOVE ALL REMOVED EQUIPMENT TO OWNER OR DISPOSE OF AS DIRECTED BY OWNER.

K. CONTRACTOR SHALL PERFORM ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED.

L. WHERE ELECTRICAL CONTRACTOR REMOVES AN ITEM AND CIRCUITING TO OTHER ITEMS WILL BE INTERRUPTED, ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CONDUIT, WIRE, BOXES, ETC. AS REQUIRED AND RE-CONNECT REMAINING ITEMS SO THEY WILL NOT BE INTERRUPTED. PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES.

M. RESEAL ALL PENETRATIONS OR OPENINGS THROUGH WALL AND CEILING, FLOORS, ETC IN SUCH A WAY AS TO MAINTAIN THE FIRE RATING OF THE STRUCTURE.

N. WHERE AN ITEM IS SHOWN TO BE RELOCATED, ELECTRICAL CONTRACTOR SHALL EXTEND WIRING AND CONDUIT TO THE APPROPRIATED NEW LOCATION AND PROVIDE ALL NECESSARY CONDUIT, WIRE, BOXES, ETC. AS REQUIRED. RECONNECT TO EXISTING CIRCUIT OR RE-CIRCUIT AS SHOWN. IF DEVICE IS NOT SALVAGEABLE, ELECTRICAL CONTRACTOR SHALL PROVIDE A NEW DEVICE. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS UNLESS OTHERWISE NOTED.

O. IT IS THE CONTRACTORS RESPONSIBILITY TO LEGALLY DISPOSED OF ALL REMOVED ITEMS OFF THE SITE. COORDINATE WITH OWNER, ARCHITECT, AND DIVISION 1 REQUIREMENTS AND LIMITS WITH REGARDS TO THE USE OF ON-SITE DUMPSTERS. USE OF OWNER'S TRASH DUMPSTERS FOR DISPOSAL OF DEMOLISHED IS NOT PERMITTED.

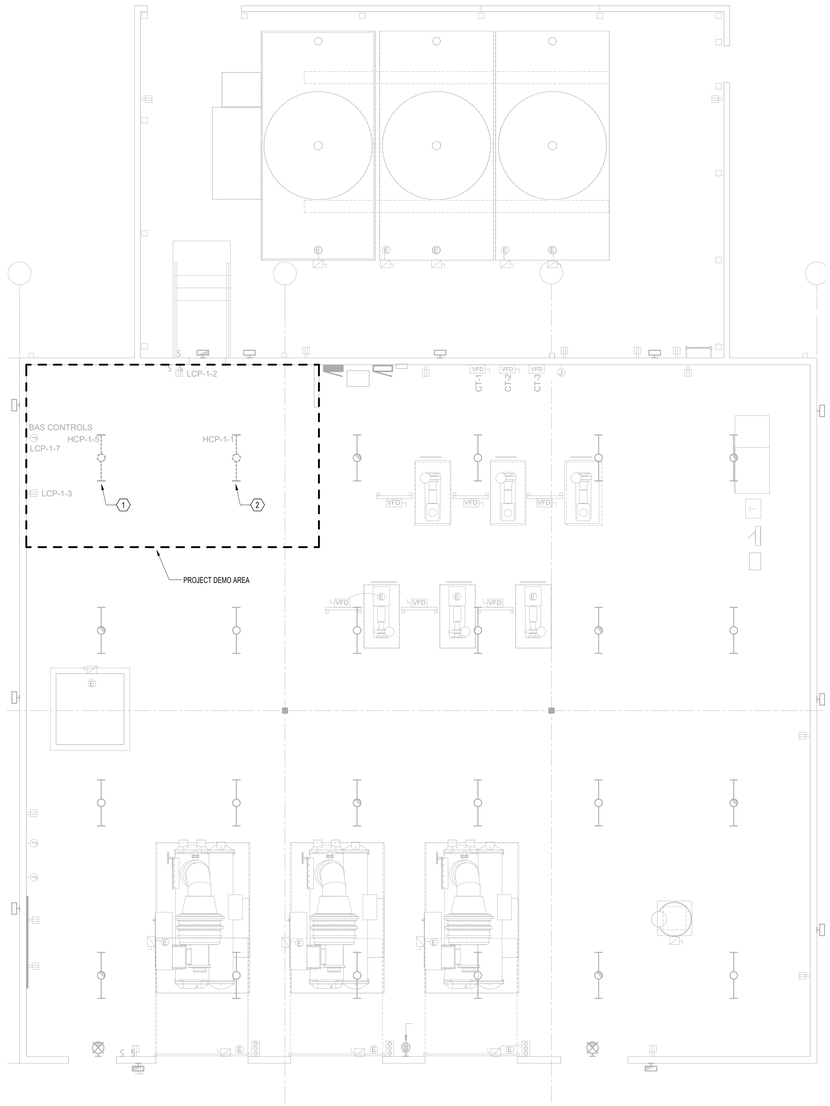
KEYNOTES

1 REMOVE EXISTING LIGHT FIXTURE. REMOVE CONDUIT AND WIRE BACK TO NEAREST JUNCTION BOX AND PREP FOR FEED TO NEW LIGHT FIXTURE.

2 REMOVE EXISTING LIGHT FIXTURE. REMOVE CONDUIT AND WIRE BACK TO NEAREST JUNCTION BOX. FIXTURE TO BE RELOCATED UNDER NEW CONSTRUCTION PHASE.

3 DISCONNECT EXISTING 277V CIRCUIT TO MONUMENT SIGN. COIL AND PROTECT CONDUCTORS FOR USE UNDER NEW CONSTRUCTION. EXISTING CIRCUIT IS FED FROM PANEL CHB LOCATED IN RM B228

2 MONUMENT SIGN DEMO
1/8" = 1'-0"



1 DEMOLITION PLAN
3/16" = 1'-0"

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL DEMOLITION PLAN
Phase	BID SET
Approved:	
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Location	13000 BRUCE B DOWN BLVD, TAMPA, FL 33612
Issue Date	NOV. 3, 2023
Checked	AESUS
Draw	AESUS
Project Number	675-23-151
Building Number	-
Drawing Number	ED-101

VIERA, MELBOURNE VA MEDICAL CENTER,
2900 VETERENS WA, MELBOURNE, FL 32940

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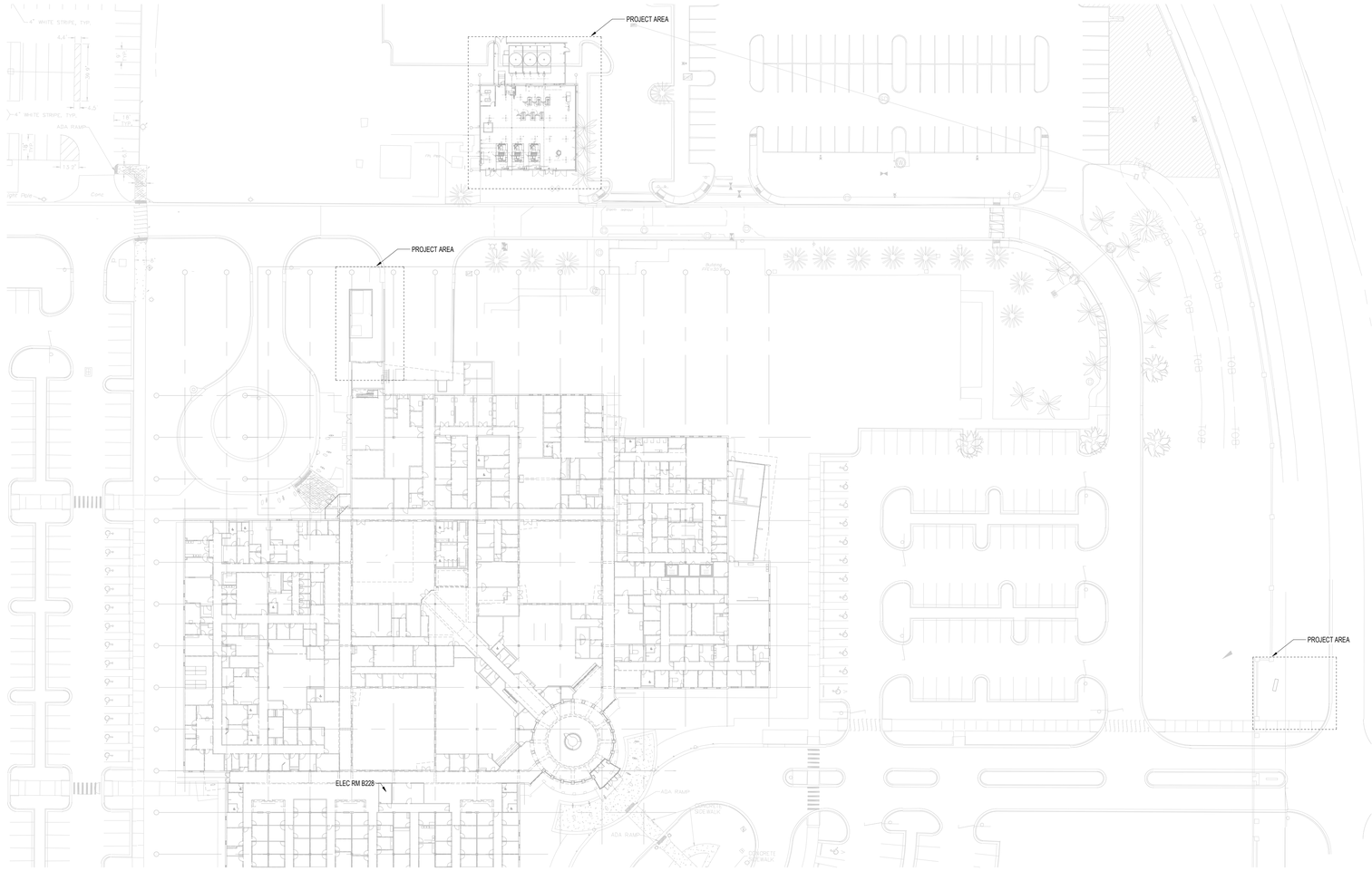

1 ELECTRICAL OVERALL SITE PLAN

1" = 40'-0"

Revisions:	Date:

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VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL SITE PLAN - OVERALL

Phase
BID SET

Project Title
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Project Number
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Approved:

Location
13000 BRUCE B DOWN BLVD, TAMPA, FL 33612
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2900 VETERENS WA, MELBOURNE, FL 32940

Issue Date NOV. 3, 2023 | **Checked** AESUS | **Draw** AESUS

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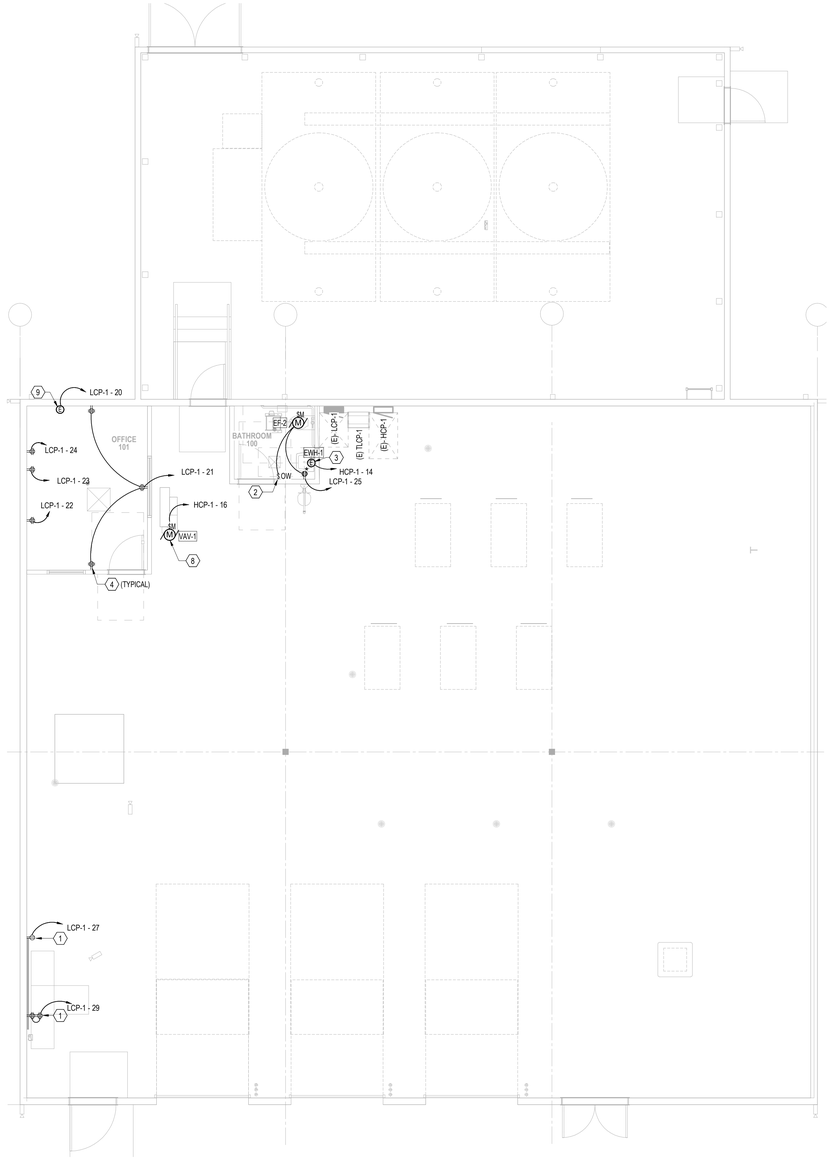
2 MONUMENT SIGN

1/8" = 1'-0"



1 ELECTRICAL POWER PLAN

3/16" = 1'-0"

MECHANICAL EQUIPMENT SCHEDULE

DESIGNATION	EQUIPMENT RATING					DISCONNECT SWITCH DATA		NOTES
	VOLTAGE	KVA	PHASE	MCA	MOCP	RATING	MEANS	
DAMPER	120 V	100 VA	1	1.0 A	15 A	--	20A/1P/N1 MOTOR RATED SWITCH WITH THERMAL OVERLOADS	SEE NOTE 1
EF-2	120 V	50 VA	1	0.5 A	15 A	30 A	15A/1P/N1 MOTOR RATED SWITCH WITH THERMAL OVERLOADS	SEE NOTE 2
EWH-1	277 V	4000 VA	1	18.1 A	20 A	--	LOCKABLE CIRCUIT BREAKER	SEE NOTE 1
VAV-1	277 V	1000 VA	1	4.5 A	15 A	30 A	15A/1P/N1 MOTOR RATED SWITCH WITH THERMAL OVERLOADS	SEE NOTE 2

EQUIPMENT SCHEDULE NOTES:
1. FUSES SIZED PER MANUFACTURER'S SPECIFICATIONS.
2. CIRCUIT THROUGH OCCUPANCY SENSOR CONTROLLING LIGHTING IN RESTROOM.

GENERAL NOTES

A. PROVIDE AND INSTALL NEW WIRING DEVICES IN ALL LOCATIONS VACATED DURING DEMOLITION WHETHER OR NOT LOCATIONS ARE EXPLICITLY INDICATED ON THE PLAN DRAWINGS. UTILIZE EXISTING BRANCH CIRCUITS COILED DURING THE DEMOLITION PHASE AND UTILIZE EXISTING BACK BACKBOXES WHERE FEASIBLE. WHERE BACKBOXES ARE DAMAGED OR OTHERWISE UNUSABLE PROVIDE NEW BACKBOXES AT EXISTING WIRING DEVICES LOCATIONS.

B. REFER TO SHEET E-001 SYMBOLS, ABBREVIATIONS, AND ADDITIONAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, CODE REQUIREMENTS, EQUIPMENT AND MATERIAL SPECIFICATIONS AND INSTALLATION REQUIREMENTS, DEVICE MOUNTING HEIGHTS, EQUIPMENT IDENTIFICATION, ETC.

C. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY OF EACH OTHER. WHERE DRAWINGS AND SPECIFICATIONS DIFFER, THE MORE STRINGENT OF THE TWO REQUIREMENTS SHALL BE FOLLOWED.

D. ALL EQUIPMENT AND FIXTURES ARE NEW UNLESS NOTED OTHERWISE.

E. CONDUIT AND WIRE IS SHOWN DIAGRAMMATICALLY. ACTUAL ROUTING AND REQUIRED NUMBER OF SUPPORTS SHALL BE DETERMINED BY THE CONTRACTOR.

F. UNLESS CONDUIT ROUTING CLEARLY INDICATES AS SUCH, DO NOT ROUTE CONDUIT ON OR ABOVE ROOFTOPS WITHOUT CONSULTING ENGINEER TO DETERMINE ANY POTENTIAL IMPACT TO RACEWAY OR CONDUCTOR SIZE DUE TO ADDITIONAL AMBIENT DERATING FOR ROOFTOP INSTALLATION.

G. CONCEAL CONDUITS IN ALL FINISHED AREAS INCLUDING CONCEALMENT WITHIN MASONRY WALLS WHEN PRESENT. (EXCEPTION: ELECTRICAL, MECHANICAL, AND JANITOR ROOMS).

H. FLOOR AND FIRE WALL PENETRATIONS MUST BE SEALED WITH AN APPROVED DESIGN TESTED FIRE STOPPING SYSTEM APPROPRIATE TO THE PENETRATED WALL TYPE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

I. PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF THE EQUIPMENT.

J. INSTALL ALL CONDUITS PARALLEL PERPENDICULAR AND UNIFORM TO BUILDING ELEMENTS

K. ALL WALL VOICE/DATA DROPS SHOWN ON TELECOM DRAWINGS SHALL HAVE A MINIMUM 4" SQUARE JUNCTION BOX AND 1" CONDUIT WITH PULL CORD STUBBED UP INTO CEILING SPACE OR TO THE CABLE TRAY, IF APPLICABLE.

L. NO MORE THAN 270 DEGREES OF CONDUIT BENDS ARE ALLOWED IN ANY CONDUIT RUNS NO MORE THAN 180 DEGREE OF CONDUIT BENDS ARE ALLOWED IN ANY INTERIOR CONDUIT RUNS.

M. IDENTIFY ALL CONDUIT RUNS WITH MARKER TAPE.

N. ALL RECEPTACLE AND SWITCH COVER PLATES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE. ALL DEVICE COVER PLATES SHALL BE LABELED WITH THE PANEL NAME AND BRANCH CIRCUIT NUMBER IDENTIFIED

O. VERIFY ALL EQUIPMENT LOCATIONS AND DIMENSIONS IN THE FIELD PRIOR TO INSTALLING RACEWAYS AND WIRING

P. ELECTRICAL WORK SHALL BE DONE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, ALL APPLICABLE CODES, ISSUED DRAWINGS AND SPECIFICATIONS.

Q. ALL 20A 120V RECEPTACLES WITHIN 6FT OF A SINK OR WET DAMP AREA SHALL BE GFCI PROTECTED PER NEC 210.8(B)(5)(6).

R. **ALL NEW DEVICES/EQUIPMENT SHOWN SHALL BE FED FROM EXISITNG PANELBOARD LCP-1, UNLESS NOTED OTHERWISE.**

KEYNOTES

1 COORDINATE EXACT OUTLET LOCATIONS WITH EY DRAWINGS.

2 PROVIDE 120V OCCUPANCY SENSOR. SENSOR SHALL BE PROGRAMMED TO TURN ON EXHAUST FAN UPON OCCUPANCY DETECTION AND OFF AFTER 30 MINUTES OF NO OCCUPANCY.

3 COORDINATE EXACT POINT OF CONNECTION LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN. PROVIDE 277V/30A RATED DISCONNECT SWITCH.

4 WHERE POWER AND DATA OUTLETS ARE LOCATED ON THE SAME WALL, LOCATE POWER OUTLET DIRECTLY ADJACENT TO DATA OUTLET. REFER TO TELECOM DRAWINGS FOR DATA OUTLET LOCATIONS.

5 UTILIZE EXISTING 277V CIRCUIT FROM PANEL CHB (PANEL CHB IS LOCATED WITHIN RM B228) TO FEED NEW 277-120V 1KVA TRANSFORMER. PROVIDE 15A/1P, 120V DISCONNECT DIRECTLY DOWNSTREAM OF TRANSFORMER. GROUND PER NEC 250.102.

6 PROVIDE HARDWIRED ELECTRICAL CONNECTION FROM 15A/1P DISCONNECT TO SIGN. COORDINATE SIGN POINT OF CONNECTION LOCATION WITH SIGN INSTALLER / PROVIDER

7 PROVIDE PEDESTAL WITH PEDESTAL MOUNTED MAINTENANCE RECEPTACLE AT SIGN LOCATION. PROVIDE WEATHERPROOF, NEMA 3R EXTRA DUTY LOCKABLE ENCLOSURE. FEED FROM 15A/1P 120V DISCONNECT.

8 PROVIDE 20A/1P MOTOR RATED DISCONNECT FOR HARDWIRED CONNECTION TO VAV. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR IN FIELD PRIOR TO ROUGH-IN.

9 PROVIDE 20A/1P LOCKABLE MOTOR RATED SWITCH FOR HARDWIRED CONNECTION TO MOTORIZED DAMPER, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR IN FIELD PRIOR TO ROUGH-IN.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title ELECTRICAL POWER PLAN

Phase BID SET

Project Title ADDRESS VIERA SITE DEFICIENCIES

Project Number 675-23-151

Building Number -

Approved:

VIERA, MELBOURNE VA MEDICAL CENTER,
2900 VETERENS WA, MELBOURNE, FL 32940

Location 13000 BRUCE B DOWN BLVD, TAMPA, FL 33612

Issue Date NOV. 3, 2023 | **Checked** AESUS | **Draw** AESUS

Drawing Number EP-101

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VA FORM 08 - 6231

(E): HCP-1

LOCATION: SEE PLANSUILDING 102
MAIN RATING / TYPE: 100 A / MLO
NEUTRAL BUS 100 A

FED FROM: MDP-1
VOLTAGE: 480Y/277
PHASE / WIRE: 3PH / 4W
SCCR: 35 kA

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS:
BUS MATERIAL: COPPER

#	Circuit Description	Conduit and Wire	LC	S	Trip	P	A (KVA)	B (KVA)	C (KVA)	P	Trip	S	LC	Conduit and Wire	Circuit Description	#
1	(E) CHILLER PLANT LIGHTING				20 A	1	0.6	6.86								2
3	(E) CHILLER PLANT LIGHTING				20 A	1		1.1	6.65	3	45 A				(E) PANEL LCP-1 VIA TLCP-1	4
5	(E) CHILLER PLANT LIGHTING				20 A	1			0.67	6.47						6
7							3	1.5								8
9	(E) OVERHEAD DOOR				15 A	3		3	1.5	3	20 A				(E) BASIN HEATERS CT-3	10
11									3	1.5						12
13							1.7	4			1	30 A			EWH-1 (LOCKABLE BREAKER)	14
15	(E) OVERHEAD DOOR				20 A	3		1.7	1	1	20 A			3/4", 2#12, #12G	VAV - CENTRAL PLAN	16
17									1.7	0	1	20 A	--	--	SPARE BREAKER	18
19							1.7	0			1	20 A	--	--	SPARE BREAKER	20
21	(E) OVERHEAD DOOR				20 A	3		1.7	0		1	20 A	--	--	SPARE BREAKER	22
23									1.7	0	1	20 A	--	--	SPARE BREAKER	24
25							1.7	0								26
27	(E) OVERHEAD DOOR				20 A	3		1.7	0		3	30 A	--	--	(E) SPD	28
29										1.7	0					30
	BRANCH CIRCUIT LOAD (KVA):						21.06 kVA	18.35 kVA	16.74 kVA							
	FEED THROUGH LUGS LOAD (KVA):						0 kVA	0 kVA	0 kVA							
	TOTAL PANEL LOAD (KVA):						21.06 kVA	18.35 kVA	16.74 kVA							
	TOTAL LOAD (AMPS):						77 A	67 A	60 A							
	LOAD BALANCE:						78.54%									

LEGEND

CIRCUIT SCOPE
- BLANK = NEW CIRCUIT, WIRE AND CIRCUIT BREAKER
- R = UTILIZE EXISTING CIRCUIT BREAKER FOR NEW CIRCUIT
- 'E' OR '-' = EXISTING TO REMAIN - SHOWN FOR REFERENCE
- WHERE '-' IS SHOWN WITH SPARE BREAKER, PROVIDE BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND
Lighting	2.37 kVA	2.96 kVA
Motor	33.55 kVA	35.8 kVA
Other	13 kVA	13 kVA
Receptacles	7.24 kVA	7.24 kVA
TOTAL KVA	56.16 kVA	59 kVA

PANEL TOTALS	
TOTAL CONNECTED LOAD (AMPS):	68 A
TOTAL CODE LOAD (AMPS):	71 A
PERCENT LOADED:	70.96%

INCLUDES NEW AND EXISTING LOAD

LC = CIRCUIT LOAD CLASSIFICATION (DEMAND FACTOR) LEGEND = R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, X-IMAGING EQUIPMENT

NOTES:
A. EXISTING CIRCUITS CALCULATED USING EXISTING AS-BUILT INFORMATION FROM DRAWINGS DATED 2019 AND BEST AVAILABLE SITE INVESTATION INFORMATION. WHERE FIELD CONDITIONS VARY FROM DRAWINGS THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION AN DIRECTION.

(E): LCP-1

LOCATION: SEE PLANSUILDING 102
MAIN RATING / TYPE: 100 A / MCB
NEUTRAL BUS 100 A

FED FROM: (E) TLCP-1
VOLTAGE: 208Y/120
PHASE / WIRE: 3PH / 4W
SCCR: 10 kA

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
OPTIONS:
BUS MATERIAL: COPPER

#	Circuit Description	Conduit and Wire	LC	S	Trip	P	A (KVA)	B (KVA)	C (KVA)	P	Trip	S	LC	Conduit and Wire	Circuit Description	#
1	(E) CHILLER PLANT RECEPTACLES	-			20 A	1	1	1		1	20 A			-	(E) CHILLER PLANT RECEPTACLES	2
3	(E) CHILLER PLANT RECEPTACLES	-			20 A	1		1	1	1	20 A			-	(E) CHILLER PLANT RECEPTACLES	4
5	(E) LTG CONTROL POWER	-			20 A	1			1	1	20 A			-	(E) REFRIGERANT MONITOR	6
7	(E) BAS POWER	-			20 A	1	1	0.33								8
9								0.7	0.33	3	20 A			-	(E) EF-1	10
11	(E) AHU	-			15 A	3			0.7	0.33						12
13							0.7	1		1	20 A			-	(E) FIRE ALARM NAC PANEL	14
15	(E) COMM BACKBOARD	-			20 A	1		1	1	1	20 A			-	(E) COMM BACKBOARD	16
17	(E) CHEMICAL TREATMENT PUMPS	-			20 A	1			1	1	20 A			-	(E) HEAT TRACE	18
19	(E) HEAT TRACE	-			20 A	1	1	0.1			1	20 A	M	3/4"C, 2#12, #12G	MOTORIZED DAMPER FOR LEAK SYS.	20
21	RECEPTS OFFICE 101	3/4"C, 2#12, #12G	R		20 A	1		1.08	0.36		1	20 A	R	3/4"C, 2#12, #12G	RECEPTACLES OFFICE 101	22
23	RECEPTACLES OFFICE 101	3/4"C, 2#12, #12G	R		20 A	1			0.36	0.36	1	20 A	R	3/4"C, 2#12, #12G	RECEPTACLES OFFICE 101	24
25	RECEPT / EF-2 BATHROOM 100	3/4"C, 2#12, #12G	R		20 A	1	0.73	0								26
27	DATA CAB RECEPT	3/4"C, 2#12, #12G	R		20 A	1		0.18	0	3	20 A	--	--	--	(E) SPD	28
29	TMB QUAD OUTLETS	3/4"C, 2#12, #12G	R		20 A	1			0.72	0						30
	BRANCH CIRCUIT LOAD (KVA):						6.86 kVA	6.65 kVA	6.47 kVA							
	FEED THROUGH LUGS LOAD (KVA):						0 kVA	0 kVA	0 kVA							
	TOTAL PANEL LOAD (KVA):						6.86 kVA	6.65 kVA	6.47 kVA							
	TOTAL LOAD (AMPS):						57 A	56 A	54 A							
	LOAD BALANCE:						93.94%									

LEGEND

CIRCUIT SCOPE
- BLANK = NEW CIRCUIT, WIRE AND CIRCUIT BREAKER
- R = UTILIZE EXISTING CIRCUIT BREAKER FOR NEW CIRCUIT
- 'E' OR '-' = EXISTING TO REMAIN - SHOWN FOR REFERENCE
- WHERE '-' IS SHOWN WITH SPARE BREAKER, PROVIDE BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND
Motor	3.75 kVA	4.28 kVA
Other	9 kVA	9 kVA
Receptacles	7.24 kVA	7.24 kVA
TOTAL KVA	19.99 kVA	20.52 kVA

PANEL TOTALS	
TOTAL CONNECTED LOAD (AMPS):	55 A
TOTAL CODE LOAD (AMPS):	57 A
PERCENT LOADED:	56.94%

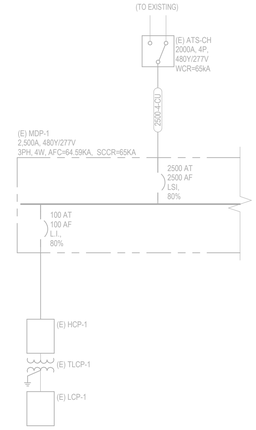
INCLUDES NEW AND EXISTING LOAD

LC = CIRCUIT LOAD CLASSIFICATION (DEMAND FACTOR) LEGEND = R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, X-IMAGING EQUIPMENT

NOTES:
A. EXISTING CIRCUITS CALCULATED USING EXISTING AS-BUILT INFORMATION FROM DRAWINGS DATED 2019 AND BEST AVAILABLE SITE INVESTATION INFORMATION. WHERE FIELD CONDITIONS VARY FROM DRAWINGS THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION AN DIRECTION.

KEYNOTES

NOT USED



1 ELECTRICAL ONE-LINE DIAGRAM (EXISTING TO REMAIN, SHOWN FOR REFERENCE ONLY)
N.T.S.

GENERAL NOTES

A. REFER TO SHEET EP-001 SYMBOLS, ABBREVIATIONS, AND ADDITIONAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, CODE REQUIREMENTS, EQUIPMENT AND MATERIAL SPECIFICATIONS AND INSTALLATION REQUIREMENTS, DEVICE MOUNTING HEIGHTS, EQUIPMENT IDENTIFICATION, ETC.

B. ALL EQUIPMENT AND FIXTURES ARE NEW UNLESS NOTED OTHERWISE.

C. PROVIDE LABEL ON THE SES AND EVERY PANELBOARD INDICATED THE AVAILABLE FAULT CURRENT AT THE EQUIPMENT PER NEC 110.24.

D. CONTRACTOR SHALL PROVIDE TYPED PANEL SCHEDULE CLEARLY IDENTIFYING ALL CIRCUITS WITHIN PANEL SCHEDULE. EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE AS REQUIRED PER NEC 408.4(A).

Revisions:	Date:

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TIMOTHY JAY SCHNEPF LICENSE No. 88352 STATE OF FLORIDA PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title ELECTRICAL ONE-LINE DIAGRAM
Phase BID SET
Project Title ADDRESS VIERA SITE DEFICIENCIES
Project Number 675-23-151
Building Number -
Approved:
Location 13000 BRUCE B DOWN BLVD, TAMPA, FL 33612
VIERA, MELBOURNE VA MEDICAL CENTER, 2900 VETERENS WA, MELBOURNE, FL 32940
Issue Date NOV. 3, 2023
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Draw AESUS
Drawing Number EP-601

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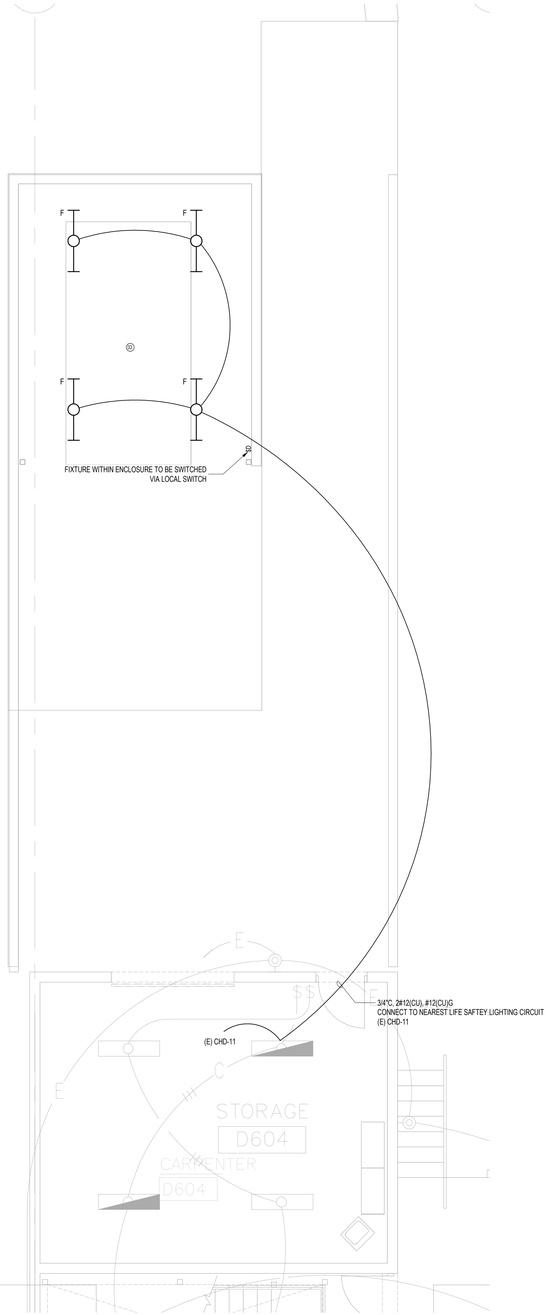
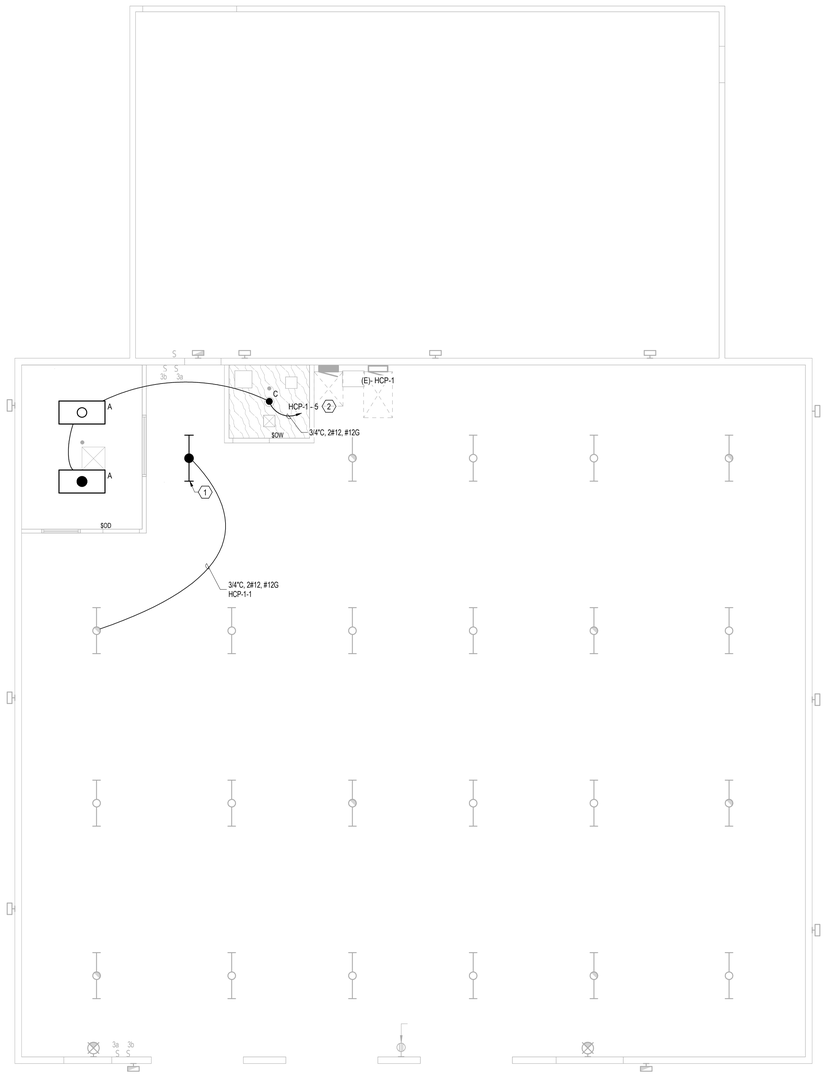


2 ENLARGED ENCLOSURE

1/4" = 1'-0"



1 LIGHTING PLAN

3/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE

DESIGNATION	DESCRIPTION	VOLT-AMPS	VOLTAGE	LAMP TYPE	LAMP TEMP	CRI	CONTROL	FIXTURE MOUNTING	MANUFACTURER	CATALOG NUMBER
A	2X4 LED RECESSED TROFFER	24 VA	277 V	LED	3500K	80	0-10V DIMMING	RECESSED	LITHONIA	2VTL4-30L-ADP-GZ10-LP835
C	6 INCH LED DOWNLIGHT, DIMMABLE	18 VA	277 V	LED	3500K	80	0-10V DIMMING	RECESSED	LITHONIA	LDN6-35/15-L06-AR-LSS-MVOLT-EZ1
F	SURFACE MOUNT LINEAR STRIP LIGHT	30 VA	277 V	LED	3500K	80	0-10V DIMMING	SURFACE/WALL	LITHONIA	ZL1D-L48-3000LM-FST-MVOLT-35K-80CRI

NOTES:
1. PROVIDE INTEGRAL 90 MIN BATTERY BACKUP FOR LIGHTS DESIGNATED AS EMERGENCY/LIFE SAFETY. THESE ARE DESIGNATED WITH A SOLID FILLED IN DOT.

GENERAL NOTES

A. REFER TO SHEET EP-001 SYMBOLS, ABBREVIATIONS, AND ADDITIONAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, CODE REQUIREMENTS, EQUIPMENT AND MATERIAL, SPECIFICATIONS AND INSTALLATION REQUIREMENTS, DEVICE MOUNTING HEIGHTS, EQUIPMENT IDENTIFICATION, ETC.

B. ALL EQUIPMENT AND FIXTURES ARE NEW UNLESS NOTED OTHERWISE.

C. CONDUIT AND WIRE IS SHOWN DIAGRAMMATICALLY. ACTUAL ROUTING AND REQUIRED NUMBER OF SUPPORTS SHALL BE DETERMINED BY THE CONTRACTOR.

D. UNLESS CONDUIT ROUTING CLEARLY INDICATES AS SUCH, DO NOT ROUTE CONDUIT ON OR ABOVE ROOFTOPS WITHOUT CONSULTING ENGINEER TO DETERMINE ANY POTENTIAL IMPACT TO RACEWAY OR CONDUCTOR SIZE DUE TO ADDITIONAL AMBIENT DERATING FOR ROOFTOP INSTALLATION.

E. CONCEAL CONDUITS IN ALL FINISHED AREAS INCLUDING CONCEALMENT WITHIN MASONRY WALLS WHEN PRESENT. (EXCEPTION: ELECTRICAL, MECHANICAL, AND JANITOR ROOMS).

F. FLOOR AND FIRE WALL PENETRATIONS MUST BE SEALED WITH AN APPROVED DESIGN TESTED FIRE STOPPING SYSTEM APPROPRIATE TO THE PENETRATED WALL TYPE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. REFER TO E-500 SERIES DRAWINGS FOR FIRE PENETRATION DETAIL.

G. WHEN OVERHEAD ELECTRICAL WORK IS EXPOSED: MOUNTING OF ALL ELECTRICAL WORK/CONDUIT SHALL RUN IN DECK FLUTES AND/OR TIGHT WITH DECK. CONTRACTOR MAY RUN CONDUIT UNDER FLOOR AS NECESSARY TO FACILITATE CONCEALMENT OF CONDUITS.

H. NO MORE THAN 270 DEGREES OF CONDUIT BENDS ARE ALLOWED IN ANY CONDUIT RUNS NO MORE THAN 180 DEGREE OF CONDUIT BENDS ARE ALLOWED IN ANY INTERIOR CONDUIT RUNS.

I. IDENTIFY ALL CONDUIT RUNS WITH MARKER TAPE.

J. ALL DEVICE COVER PLATES SHALL BE LABELED WITH THE PANEL NAME AND BRANCH CIRCUIT NUMBER IDENTIFIED

K. ELECTRICAL WORK SHALL BE DONE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, ALL APPLICABLE CODES, ISSUED DRAWINGS AND SPECIFICATIONS.

L. COORDINATED FIXTURE ELEVATIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

M. EMERGENCY FIXTURES DESIGNATED AS NIGHT LIGHTS 'NL' AND EXIT SIGNS SHALL BE CONNECTED TO A NON-SWITCHED LEG OF THE NEAREST BRANCH LIGHTING CIRCUIT U.N.O. 1#12, 1#12N, 1#12G U.N.O. ALL OTHER EMERGENCY LIGHTING SHALL BE SWITCHED WITH AREA LIGHTING AND INSTALLED TO TURN ON UPON POWER LOSS.

N. WHEN LIGHTING CONTROL DEVICES ARE INDICATED ON PLANS AND DETAILS, THE CONTRACTOR SHALL INSTALL ANY AII LIGHTING CONTROL DEVICES AND ASSOCIATED CONTROL WIRING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

O. INSTALL FLEXIBLE CONDUIT CONNECTIONS TO FIXTURES (NOT TO EXCEED 6' IN LENGTH) WHEN NECESSARY.

P. FIXTURES LOCATED WITHIN FIRE RATED CEILING SYSTEMS SHALL BE INSTALLED AS TO MAINTAIN THE FIRE RATING.

Q. **ALL NEW LIGHTING SHOWN SHALL BE FED FROM EXISITNG PANELBOARD HCP-1, UNLESS NOTED OTHERWISE.**

KEYNOTES

1 RELOCATE EXISTING LIGHTING FIXTURE. PROVIDE EXTERNAL LIGHTING INVERTER CAPABLE OF PROVIDING NOT LESS THAN 60W. MOUNT ADJACENT TO FIXTURE. CONNECT FIXTURE TO SWITCH LEG 'A'. RECONNECT TO EXISTING LIGHTING CIRCUIT.

2 CONNECT TO EXISTING CIRCUIT.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	ELECTRICAL LIGHTING PLAN
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	-
Approved:	
Location	13000 BRUCE B DOWN BLVD, TAMPA, FL 33612 VIERA, MELBOURNE VA MEDICAL CENTER, 2900 VETERENS WA, MELBOURNE, FL 32940
Drawing Number	EL-101
Issue Date	NOV. 3, 2023
Checked	AESUS
Draw	AESUS

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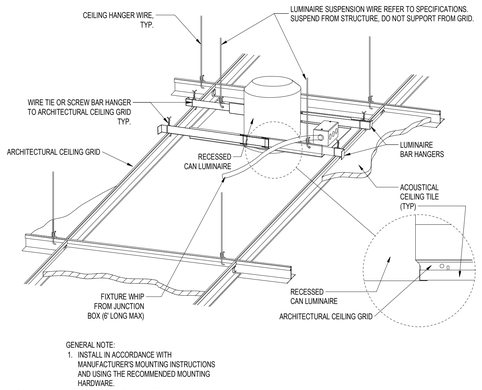
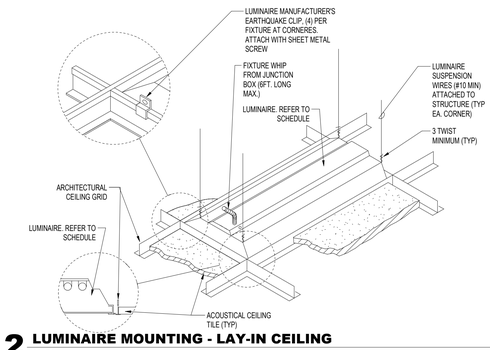
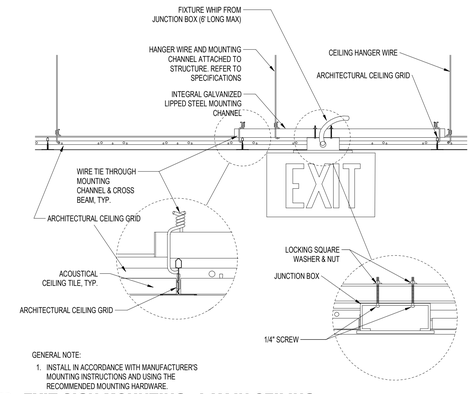


GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

1 DOWNLIGHT MOUNTING - LAY-IN CEILING
N.T.S.



2 LUMINAIRE MOUNTING - LAY-IN CEILING
N.T.S.



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

3 EXIT SIGN MOUNTING - LAY-IN CEILING
N.T.S.

Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: LIGHTING DETAILS

Phase: BID SET

Project Title: ADDRESS VIERA SITE DEFICIENCIES

Project Number: 675-23-151

Building Number: -

Approved:

Location: 13000 BRUCE B DOWN BLVD, TAMPA, FL 33612
VIERA, MELBOURNE VA MEDICAL CENTER, 2900 VETERENS WA, MELBOURNE, FL 32940

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ELECTRICAL ABBREVIATIONS

THIS LIST OF ABBREVIATIONS IS PROVIDED FOR CONVENIENCE ONLY. ITEMS LISTED HERE MAY OR MAY NOT BE USED ON THIS PROJECT.

A	AMP
AA	AUTOMATIC ALTERNATOR
AC	ALTERNATING CURRENT
ACU	AIR CONDITIONER UNIT
AF	AMPERAGE FRAME
AFF	ABOVE FINISHED FLOOR
ANN	ANNUNCIATOR
AS	AMMETER SWITCH
AT	AMPERE TRIP
AX	AUXILIARY DELAY
BKR	BREAKER
CB	CIRCUIT BREAKER
COL	COLUMN
CL	CENTERLINE
CKT	CIRCUIT
CF(P OR L)	CLOSE ON FALLING (PRESSURE OR LEVEL)
CR(P OR L)	CLOSE ON RISING (PRESSURE OR LEVEL)
CH	CONVECTION HEATER
COMPT	COMPARTMENT
COND	CONDUCTOR
CDT	CONDUIT
C-( )	CONTRACT-( ) ID
CPT	CONTROL POWER TRANSFORMER
CR-( )	CONTROL RELAY-( ) ID
I/I	CURRENT TO CURRENT TRANSDUCER
I/P	CURRENT TO PNEUMATIC TRANSDUCER
CT	CURRENT TRANSFORMER
CTR	CENTER
DC	DIRECT CURRENT
DF	DUST FILTER
DFA	DOWN FROM ABOVE
DIA	DIAMETER
DISTR	DISTRIBUTION
DP	DIFFERENTIAL PRESSURE
DS	DISCONNECT SWITCH
DPDT	DOUBLE POLE, DOUBLE THROW
(E)	EXISTING
EBB	ELECTRIC BASED BOARD
ECH	ELECTRIC CEILING HEATER
EDH	ELECTRIC DUCT HEATER
EF	ELECTRIC FIN
EMT	ELECTRIC METALLIC TUBING
EC	ELECTRICAL CONTRACTOR
ETM	ELAPSED TIME METER
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
F	FLOW
FDR	FEEDER
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METALLIC CONDUIT
FOS	FAST-OFF-SLOW
F-S	FAST-SLOW
FT	FEET
F-R	FORWARD REVERSE
FR	FRAME
FUSS	FUSED SAFETY SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
G	GREEN
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GPM	GALLONS PER MINUTE
GND	GROUND
GRV	GRAVITY RELIEF VENT
GUH	GAS UNIT HEATER
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HV	HOUSE VACUUM
HZ	HERTZ
ID	IDENTIFICATION NUMBER
IC	INTERRUPTING CAPACITY
IF	INFRARED HEATER
IMC	INTERMEDIATE METAL CONDUIT
INF	IN LINE FAN
I/O	INPUT/OUTPUT
IT	INTERCHANGEABLE TRIP OR INSTANTANEOUS TRIP
JB	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILS
KUH/EUH	ELECTRIC UNIT HEATER
KVA	KILOVOLT AMPERE
KV	KILOVOLT
KVAR	KILOVOLT AMPERES REACTIVE
KW	KILOWATT
L	LEVEL
LC	LOUVER CONTROLLER
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
LM	LOUVER MOTOR
LP( )-( )	LIGHTING CIRCUIT ( )
LP( )	LIGHTING PANELBOARD
LS	LIMIT SWITCH
LV	LOUVER
M	MANUAL MOTOR STARTER
mA	MILLIAMPERES
MC	METAL CLAD CABLE
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MEZZ	MEZZANINE
MF-( )	MAIN FEEDER-( ) ID
MGD	MILLION GALLONS PER DAY
MS	MOTOR STARTER
MTD	MOUNTED
MTR	MOTORIZED TIMING RELAY
MUAU	MAKE UP AIR UNIT
MX	MOTOR AUXILIARY RELAYS
(N)	NEW
NAC	NOTIFICATION APPLIANCE CIRCUIT
NP	NAMEPLATE
NF	NON FUSED
NFSS	NON FUSED SAFETY SWITCH
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
No.	NUMBER
( )OL	OVERLOAD ( ) NUMBER OF
P	PRESSURE
( )P	POLES ( ) NO OF POLES
Ø or PH	PHASE
P/I	PNEUMATIC TO CURRENT TRANSDUCER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PRE	POWER ROOF EXHAUSTER
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PTAC	PACKAGE TERMINAL AIR CONDITIONER
PTR	PNEUMATIC TIMING RELAY
PVC	POLYVINYL CHLORIDE RIGID CONDUIT
PVC-RSC	PVC COATED RIGID STEEL CONDUIT
PWV	POWER WALL VENTILATOR
QTY	QUANTITY
R	RED
RAC	RIGID ALUMINUM
RECPT	RECEPTACLE
REQ	REQUIRED
RMS	ROOT MEAN SQUARE
RSC	RIGID STEEL CONDUIT
RTU	REMOTE TERMINAL UNIT
SAF	SUPPLY AIR FAN
STP	SHIELDED TWISTED PAIR
SL	STOP LOCKOUT
SMC	SMART MOTOR CONTROLLER
SPDT	SINGLE POLE, DOUBLE THROW
SS	SELECTOR SWITCH
S/S	START/STOP
S/SL	START/STOP LOCKOUT
SV	SOLENOID VALVE
SYM	SYMMETRICAL
T or T'STAT	THERMOSTAT
T-( )	TELEPHONE CONDUIT-( )
TCC	TIME-CLOSE CONTACT
TEMP	TEMPERATURE
TC	TEMPERATURE CONTRACTOR
TOC	TIME-OPEN CONTACT
TR	TIMING RELAY
TRI	SHIELDED TRIPLE CABLE
TS	TEMPERATURE SWITCH
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UF	UNDERGROUND FEEDER
UH	UNIT HEATER
VA	VOLT - AMPERE
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VS	VOLTMETER SWITCH
VT	VOLTAGE TRANSFORMER
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF

ELECTRICAL SYMBOLS SCHEDULE

THIS IS A COMPLETE LIST OF ELECTRICAL SYMBOLS FOR REFERENCE ONLY. SYMBOLS SHOWN HERE MAY OR MAY NOT BE USED ON THIS PROJECT.

GENERAL SYMBOLS

- (#) KEY NOTE INDICATOR
- (X / X) EQUIPMENT INDICATOR
- (2) DRAWING REVISION INDICATOR

LINE TYPES

- NEW WORK SCOPE OF WORK
- EXISTING SCOPE OF WORK
- DEMOLITION SCOPE OF WORK
- FUTURE SCOPE OF WORK
- UGP — UNDERGROUND ELECTRIC SECONDARY FEEDER
- -NEW BRANCH CIRCUIT W/#12 AWG THHN WIRES -SLASH LINES INDICATES WIRES IN CIRCUIT -SHORT LINES DEPICTS PHASE CONDUCTOR -LONG LINE DEPICTS NEUTRAL CONDUCTOR -LONG LINE W/DOT DEPICTS GROUND

CONDUIT AND WIRING

- BRANCH CIRCUIT RUN CONCEALED
- BRANCH CIRCUIT RUN UNDER FLOOR
- BRANCH CIRCUIT DOWN
- BRANCH CIRCUIT UP
- 2A-1,3,5 HOME RUN TO PANEL 2A CKTS 1, 3, & 5

COMMUNICATION DEVICES

- TELEPHONE OUTLET; PROVIDE DOUBLE GANG BACKBOX WITH 1" CONDUIT AND PULL STRING TO ACCESSIBLE CEILING
- DATA OUTLET (18" AFF); PROVIDE DOUBLE GANG BACKBOX WITH 1" CONDUIT AND PULL STRING TO ACCESSIBLE CEILING
- CATV — CABLE TV OUTLET, MOUNTED BEHIND TV LOCATION WITH RECESSED DOUBLE GANG BACKBOX. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS; PROVIDE 1 CATV JACK
- PA — 8" CEILING MOUNTED PUBLIC ADDRESS; PROVIDED WITH BAFFLE, GRILL AND MATCHING TRANSFORMER
- CR — CARD READER. FLUSHED MOUNTED AT 42" AFF.
- DC — DOOR CONTACT
- ES — ELECTRIC DOOR STRIKE
- BMS — BALANCE MAGNETIC SENSOR
- DOOR BUZZER
- CCTV CAMERA-FIXED
- CCTV CAMERA-PAN, TILT, ZOOM
- SEC — SECURITY PANEL

POWER DISTRIB. & ELECTRICAL DEVICES

- J — JUNCTION BOX OR PULL BOX
- J — WALL MOUNTED JUNCTION BOX OR PULL BOX
- DUPLEX RECEPTACLE (18" AFF)
- DOUBLE DUPLEX RECEPTACLE (18" AFF)
- LOCKING SPECIAL RECEPTACLE (OVERHEAD) 30A-1P, 3W, 120V
- S — DOOR BELL CHIME (REFER TO PLANS)

FIRE ALARM DEVICES

- S — FIRE ALARM STROBE (80" AFF)

GENERAL PROJECT NOTES

A. THIS IS A COMPLETE LIST OF ELECTRICAL SYMBOLS AND ABBREVIATIONS FOR REFERENCE ONLY. SYMBOLS SHOWN ON THIS DRAWING MAY NOT APPEAR ON THE FOLLOWING DRAWINGS.

B. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED SHUTDOWNS ON EXISTING UTILITIES WITH OWNER REPRESENTATIVES IN ORDER TO MINIMIZE IMPACT TO OTHER AREAS.

C. PERFORM ALL WORK IN COMPLIANCE WITH ALL OF THE LATEST APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. IF CONFLICTS EXIST BETWEEN THESE ENGINEERING DOCUMENTS AND CODES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

ALL CONSTRUCTION WORK SHALL ALSO MEET THE FOLLOWING CODE REQUIREMENTS:
- FLORIDA BUILDING CODE, BUILDING
- FLORIDA BUILDING CODE, ENERGY CONSERVATION
- FLORIDA FIRE PREVENTION CODE
- NFPA 101, THE LIFE SAFETY CODE
- NFPA 70, NATIONAL ELECTRICAL CODE
- NFPA 72, NATIONAL FIRE ALARM CODE

D. ALL WIRING SHALL BE IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4". MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. ALL NEW CIRCUITS SHALL BE PROVIDED WITH AN INDIVIDUAL NEUTRAL AND GROUNDING CONDUCTOR WITH THE PHASE CONDUCTOR.

E. THE ELECTRICAL DRAWINGS ARE SCHEMATIC IN NATURE. BEFORE STARTING THE WORK THE CONTRACTOR SHALL REVIEW ALL OTHER DISCIPLINE DRAWINGS AND VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

F. ALL CONDUITS INSTALLED INTERIOR SHALL BE EMT. ALL CONDUITS INSTALLED EXTERIOR SHALL BE PVC SCHEDULED 40.

G. CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER. UNLESS NOTED OTHERWISE, CONDUCTORS INSULATION SHALL BE DUAL RATED AT THHN/THWN.

H. ALL DEVICES, EQUIPMENT MATERIAL AND LABOR SHALL BE PROVIDED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

I. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE MOUNTED AS PER EQUIPMENT AND DEVICE MANUFACTURER RECOMMENDATIONS.

J. CONTRACTOR SHALL PROVIDE SUBMITTALS TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL OF ALL ELECTRICAL EQUIPMENT AND DEVICES DESCRIBED IN THE SUBMITTAL REGISTER. SUBMITTALS SHALL INCLUDE CUT SHEETS, DIMENSIONS, WIRING DIAGRAMS, ACCESSORIES, OPERATION MANUALS, AND ALL NECESSARY INFORMATION FOR REVIEWER TO MAKE A SOUND EVALUATION.

K. PROVIDE STARTUP OF ALL ELECTRICAL SYSTEMS AND COORDINATE WITH ARCHITECT/ENGINEER FOR OWNER STARTUP WITNESSING.

L. PROVIDED LAMINATED PLASTIC NAMEPLATES FOR EACH EQUIPMENT ENCLOSURE. EACH NAMEPLATE IDENTIFY EQUIPMENT FUNCTION, PANELBOARD CONNECTED AND CIRCUIT NUMBER. NAMEPLATE SHALL BE MELAMINE PLASTIC (0.125 INCHES THICK), WHITE LETTERS ON BLACK BACKGROUND. MINIMUM SIZE OF LETTERS SHALL BE 2.5 INCHES. IN ADDITION TO EQUIPMENT TAGGING, CONTRACTOR SHALL PROVIDE ARC-FLASH WARNING SIGNS FOR PANELBOARDS.

M. PROVIDE COMPUTER PRINTED ON WHITE WRAPAROUND PAPER WITH CLEAR PLASTIC PROTECTION TAIL FOR ALL WIRE MARKERS. MARKER SHALL STATE PANELBOARD NAME AND CIRCUIT NUMBER ON ALL WIRES IN JUNCTION/PULL BOXES AND IN EQUIPMENT TERMINAL BOXES.

N. PROVIDE PUNCHED TAPE LABELS ON ALL WIRING DEVICES FOR IDENTIFICATION. SHALL BE ½" BLACK TAPE WITH WHITE RAISED LETTERS. TAPE LABELS SHALL STATE PANELBOARD NAME AND CIRCUIT NUMBER.

O. PROVIDE DIRECTORIES ON ALL PANELBOARDS. ALL LOADS SHALL BE BALANCED TO WITHIN 10%.

P. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE SET OF RECORD DRAWINGS TO THE OWNER AT THE END OF THE CONSTRUCTION.

Q. ALL MATERIALS AND EQUIPMENT TO BE INSTALLED SHALL BE NEW AND FREE OF DEFECTS. ALL ELECTRICAL EQUIPMENT SHALL COMPLY WITH NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS AND SHALL BE UL LABELED. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A WORKMANLIKE MANNER.

R. ALL CONNECTORS AND SPLICES FOR CABLE SIZE #10 AWG AND SMALLER SHALL BE INSULATED, PRESSURE-TYPE. FOR LARGER SIZE CONDUCTORS USE BOLTED CLAMPS WITH INSULATING TAPE.

S. CONTRACTOR SHALL PROVIDE RECORD DOCUMENTS, DRAWINGS AND MANUALS TO OWNER WITHIN 30 DAYS AFTER SYSTEM ACCEPTANCE.

SPECIAL SYSTEMS SHEET INDEX

Revisions:	Date:

CONSULTANT

MES GROUP, INC
550 North Reo Street
Tampa, FL, 33609
813-289-4700
COA#8304
Project #23520

ARCHITECT/ENGINEER OF RECORD

AESUS design group — Architecture, Engineering, and, Sustainable Design
1050 E. Southern Ave, Suite #D,
Tempe, Arizona 85282, (480) 454-2861

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DAVID KEITH — LICENSE — No. 85291 — STATE OF FLORIDA — PROFESSIONAL ENGINEER — 11/1/2023

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	SPECIAL SYSTEMS LEGEND, NOTES & ABBREVIATIONS
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	Chiller Building
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date	NOV. 3, 2023
Checked	DK
Drawn	SC
Drawing Number	E-000

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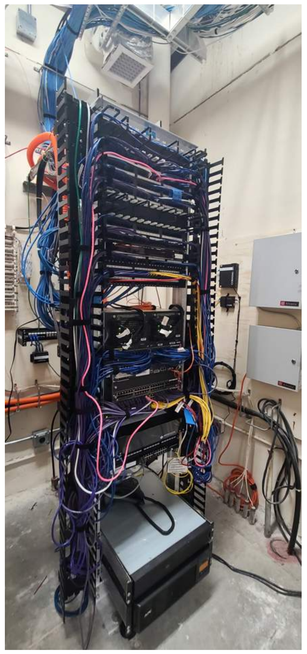
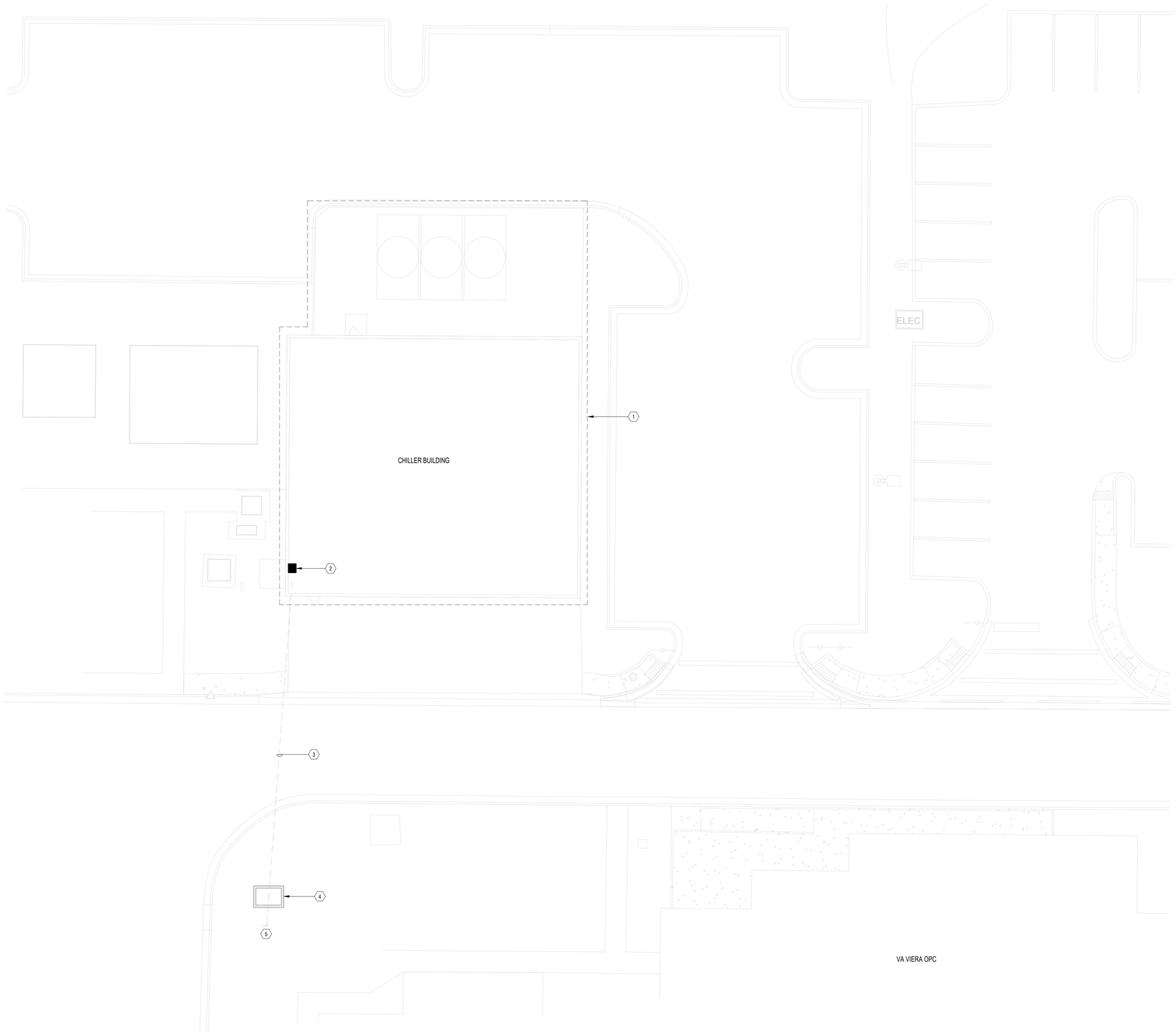


2 EY-100 EXISTING ROOM D601 - VA VIERA OPC
NOT TO SCALE

3 EY-100 EXISTING ROOM A406 - VA VIERA OPC
NOT TO SCALE



1 EY-100 OVERALL SITE CHILLER SITE PLAN
1" = 10'-0"

GENERAL NOTES

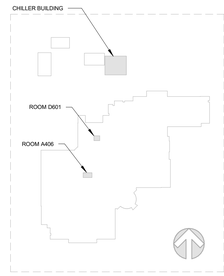
A. THE SCOPE OF WORK CONSIST OF UPGRADING THE CHILLER PLANT PHYSICAL SECURITY SYSTEMS. THIS INCLUDES CAMERA SURVEILLANCE, ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS.

B. THE DESIGN INTENT IS TO PROVIDE AND INSTALL A NEW TELECOMMUNICATION ENCLOSURE (TE) WITHIN THE OPEN SPACE. PER AS-BUILTS, EXISTING CONDITIONS CONTAIN (2) 2" CONDUITS WITH FIBER AND CABLES TERMINATED/ORIGINATING FROM THE MAIN BUILDING. ALL NEW SYSTEM'S HEADEND EQUIPMENT, SWITCHES, PATCH PANELS, ETC. SHALL BE ROUTED BACK TO THE NEW TE.

C. THE PURPOSE OF THIS SHEET IS TO SHOW THE LOCATION OF THE CHILLER BUILDING APPROXIMATE TO THE MAIN BUILDING AND OTHER STRUCTURES. NO SITE WORK IS REQUIRED.

KEYNOTES

1 AREA OF WORK.
2 APPROXIMATE LOCATION OF NEW TELECOMMUNICATION ENCLOSURE. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.
3 EXISTING UNDERGROUND (2) 2" CONDUITS FOR TELECOMMUNICATION FIBERS. RUN NEW FIBERS UTILIZING EXISTING CONDUITS AND PULL BOX FROM CHILLER BUILDING TO ROOM A406 VIA ROOM D601.
4 EXISTING UNDERGROUND TRAFFIC RATED PULL BOX.
5 TO ROOM D601.



Revisions:	Date:

CONSULTANT

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11/1/2023

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title VIERA - OVERALL PLAN	**Phase** BID SET	**Project Title** ADDRESS VIERA SITE DEFICIENCIES	**Project Number** 675-23-151
Approved:	**Location** VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940		**Building Number** Chiller Building
		Issue Date NOV. 3, 2023 / **Checked** DK / **Drawn** SC	**Drawing Number** EY-100

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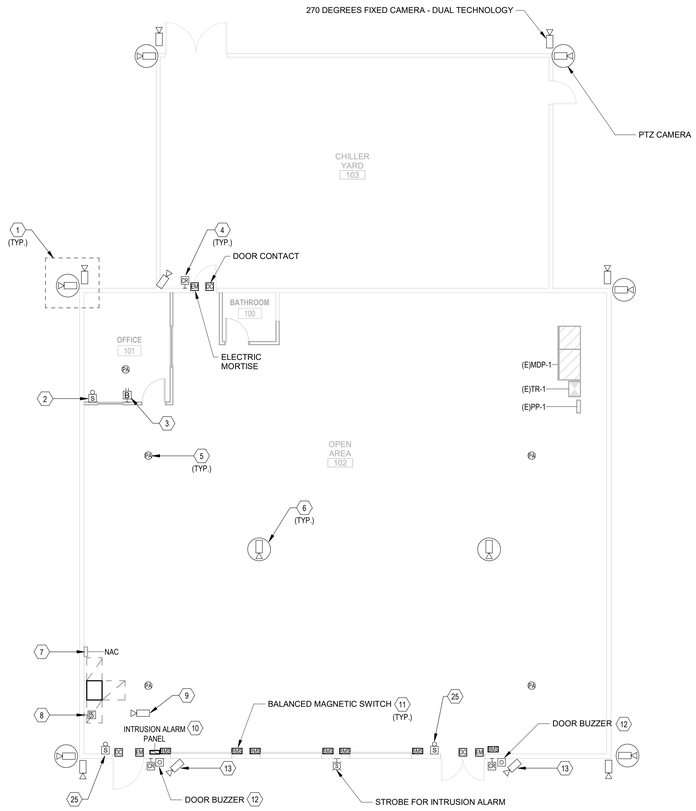
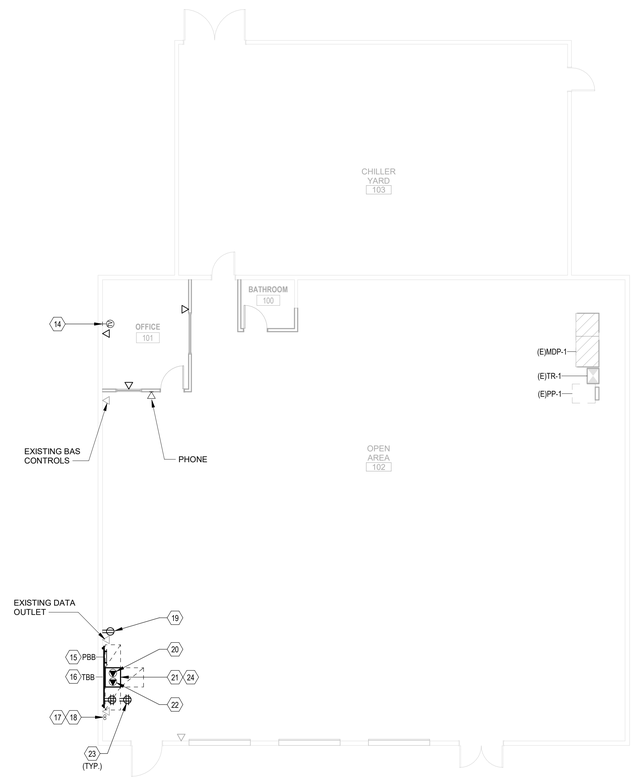


1 EY-101 CHILLER BUILDING - SPECIAL SYSTEMS FLOOR PLAN
1/8" = 1'-0"



2 EY-101 CHILLER BUILDING - TELECOMMUNICATION FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

A. THE SCOPE OF WORK CONSIST OF UPGRADING THE CHILLER PLANT PHYSICAL SECURITY SYSTEMS. THIS INCLUDES CAMERA SURVEILLANCE, ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS.

B. THE DESIGN INTENT IS TO PROVIDE AND INSTALL A NEW TELECOMMUNICATION ENCLOSURE (TE) WITHIN THE OPEN SPACE. PER AS-BUILTS, EXISTING CONDITIONS CONTAIN (2) 2" CONDUITS WITH FIBER AND CABLES TERMINATED/ORIGINATING FROM THE MAIN BUILDING. ALL NEW SYSTEM'S HEADEND EQUIPMENT, SWITCHES, PATCH PANELS, ETC. SHALL BE ROUTED BACK TO THE NEW TE.

C. CHILLER BUILDING DOES NOT CONTAIN MORE THAN 96 WAOs AND IT IS DETERMINED THAT A TE IS REQUIRED IN LEUI OF A TR. A TE IS REQUIRED WHEN A BUILDING CONTAINS LESS THAN 96 WAOs AND IS PLANNED TO HAVE 1-48 WAPs. A 12RU (HALF-HEIGHT) STANDARDIZED TE IS RECOMMENDED. HOWEVER A 26RU (FULL-HEIGHT) TE WILL BE UTILIZED TO MEET THE SPECIFIC STATION'S IMPLEMENTATION REQUIREMENTS.

D. ALL CONDUITS RUNNING THROUGH FIRE RATED WALLS SHALL BE PROVIDE WITH FIRE RATED PENETRATION SLEEVES.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFICATION OF ALL RATED WALLS, CEILINGS AND SLABS AND THEIR SPECIFIED RATING ON THE ARCHITECTURAL DRAWINGS. ALL DEVICES AND MATERIALS SHALL MEET THE UL RATING OF THE RATED WALLS, CEILINGS AND SLABS ASSEMBLY. CONTRACTOR SHALL PROVIDE AN ASSEMBLY INSTALLED IN ACCORDANCE WITH UL FOR THE RATED APPLICATION.

F. ALL CAMERAS LOCATED ON THE EXTERIOR SHALL BE BONDED TO THE EXISTING LIGHTNING PROTECTION SYSTEM. PROVIDE BARE COPPER CONDUCTOR AS NEEDED.

G. PROVIDE A COMPLETE UL LISTED LIGHTNING PROTECTION SYSTEM PER NFPA 780 AND UL 96A.

H. SHOP DRAWINGS FOR REVIEW AND APPROVAL SHALL BE PROVIDED TO THE COR.

KEYNOTES

1. PAIR OF CAMERAS MOUNTED ON PARAPET LOCATED AT EACH CORNER OF BUILDING. (1) 270 DEGREES FIXED CAMERA AND (1) PTZ CAMERA. FINAL LOCATION SHALL BE COORDINATED WITH VA POLICE. VA POLICE TO PROGRAM CAMERAS FOR MOTION. CAMERA SHALL BE 1080P OR BETTER COMMERCIAL/PROFESSIONAL/ENTERPRISE GRADE PELCO. CAMERA TYPE/MODEL DEPENDS ON LOCATION AND ENVIRONMENT TO BE INSTALLED. ALL WIRING EXITING THE TE SHALL BE IN CONDUIT.
2. NEW FIRE ALARM NOTIFICATION STROBE. TIE NEW FIRE ALARM DEVICE TO EXISTING FIRE ALARM SYSTEM. NEW FIRE ALARM DEVICE SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
3. DOOR BELL CHIME - IN THE EVENT OF AN OCCUPANT PRESS DOOR BUZZERS, DOOR BELL CHIME WILL SOUND NOTIFYING STAFF MEMBER IN OFFICE.
4. PROVIDE 48" WP FLUSH JUNCTION BOX FOR CARD READER. CARD READER SHALL BE PROVIDED WITH DUAL AUTHENTICATION, CARD AND PIN.
5. PUBLIC ADDRESS SPEAKER, HARD WIRED. TIE TO HEAD END EQUIPMENT WITHIN THE TE. ENSURE THE CHILLER BUILDING IS TIED INTO AND RECEIVING THE SAME NOTIFICATIONS AS THE CLINIC'S SYSTEM. COORDINATE FINAL LOCATION WITH OVERHEAD UTILITIES.
6. SECURITY CAMERA MONITORING CHILLER PLANT INTERIOR BUILDING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH VA POLICE AS NEEDED. CAMERA SHALL BE 1080P OR BETTER COMMERCIAL/PROFESSIONAL/ENTERPRISE GRADE PELCO. CAMERA TYPE/MODEL DEPENDS ON LOCATION AND ENVIRONMENT TO BE INSTALLED. ALL WIRING EXITING THE TE SHALL BE IN CONDUIT.
7. EXISTING FIRE ALARM NAC PANEL TIED TO VA VIERA OPC FACP. ENSURE EXISTING FIBER TIED TO NAC PANEL IS PROTECTED AND NOT DISTURBED DURING DEMOLITION.
8. PROVIDE 48" FLUSH JUNCTION BOX FOR CARD READER. CARD READER SHALL BE PROVIDED WITH DUAL AUTHENTICATION, CARD AND PIN. CARD READER SHALL TIE TO TELECOMMUNICATION ENCLOSURE TO ALLOW ACCESS TO USER/VA PERSONNEL. COORDINATE EXACT HEIGHT, LOCATION AND REQUIREMENTS WITH VA PRIOR TO INSTALLATION.
9. CAMERA WITH DIGITAL MASKING MONITORING CARD READER. CAMERA SHALL BE INSTALLED TO AIM IN A WAY THAT IT CAN IDENTIFY WHO IS USING THE DUAL AUTHENTICATION CARD READER. CAMERA SHALL BE 1080P OR BETTER COMMERCIAL/PROFESSIONAL/ENTERPRISE GRADE PELCO. CAMERA TYPE/MODEL DEPENDS ON LOCATION AND ENVIRONMENT TO BE INSTALLED. ALL WIRING EXITING THE TE SHALL BE IN CONDUIT.
10. LENELS2 ONGUARD SYSTEM INTRUSION ALARM PANEL TO REPORT TO VA POLICE. COORDINATE ALL REQUIREMENTS WITH VA PRIOR TO INSTALLATION.
11. BALANCED MAGNETIC SWITCH, BMS MOUNTED ON BOTH SIDES OF ROLL UP DOORS.
12. WP DOOR BUZZER SHALL BE TIED TO DOOR BELL CHIME LOCATED IN OFFICE TO NOTIFY STAFF MEMBER.
13. EXTERIOR CAMERA MONITORING SOUTHERN DOOR. PROVIDE THE NECCESSARY CABLES, ACCESSORIES AND DEVICE ETC. AS NEEDED FOR A FULLY FUNCTIONAL SYSTEM.
14. OFFICE SHALL BE PROVIDED WITH A WALL MOUNTED CAMERA MONITOR. ENSURE VA POLICE DEPARTMENT HAVE ACCESS AND THIS MONITOR IS VIEWABLE FOR "LIVE STREAM" FROM THE VA POLICE DEPARTMENT. PROVIDE THE NECCESSARY CABLES, ACCESSORIES AND DEVICES ETC. AS NEEDED.
15. PRIMARY BONDING BUSBAR (PBB) FOR IT EQUIPMENT. GROUND RACK BONDING BUSBAR (RBB). ALL CABINETS, RACKS, CONDUITS AND ALL METAL EQUIPMENT. FINAL LOCATION OF PRIMARY BONDING BUSBAR CAN BE ADJUSTED BASED ON FIELD CONDITIONS AND SHALL BE ACCESSIBLE. PROVIDE #6 Cu AND TIE TO MAIN GROUNDING BUSBAR.
16. TBB, TELECOMMUNICATION BACKBOARD - PROVIDE (2) COATS OF BRIGHT HIGH-GLOSS WHITE FLAME RETARDANT PAINT - 4' X 8' FIRE RATED PLYWOOD BACKBOARD 3/4" THICK
17. EXISTING (2) 2" CONDUITS WITH EXISTING (6) MULTI-MODE FIBERS AND (3) OSP CAT-6 CABLES TERMINATING FROM ROOM D601 VIA EXISTING TRAFFIC RATED PULL BOX OUTSIDE OF BUILDING'S FOOTPRINT. REMOVE EXISTING FIBERS AND UPGRADE AS INDICATED IN KEYNOTE #17.
18. PROVIDE CONTINUOUS FIBER HOMERUN FROM ROOM A406 WITHIN THE MAIN BUILDING TO NEW TELECOMMUNICATION ENCLOSURE. NEW FIBER HOMERUN SHALL BE (2) 12-STRAND, SINGLE MODE (SM) OS2 CABLES TO BOTH A AND B SIDE.
19. DUPLEX OUTLET FOR TE GENERAL PURPOSE POWER. E.C. TO PROVIDE DEDICATED 120V, 20A-1P CIRCUIT BREAKER.
20. LOCKING 120V, 30A OUTLET ASSIGNED TO PDU. E.C. TO PROVIDE DEDICATED 120V, 30A-1P CIRCUIT BREAKER IN CLOSEST 120V PANEL.
21. NEMA-12 OR EQUIVALENT, FULL-HEIGHT 26RU WALL-MOUNTED TELECOMMUNICATIONS ENCLOSURE (TE). SEE WALL-MOUNTED TE SALIENT CHARACTERISTICS DETAILS.
22. LOCKING 120V, 30A OUTLET ASSIGNED TO UPS. E.C. PROVIDE DEDICATED 120V, 30A-1P CIRCUIT BREAKER.
23. QUAD OUTLET (5-20) FOR BACKBOARD MOUNTED EQUIPMENT. E.C. TO PROVIDE DEDICATED 120V, 20A-1P CIRCUIT BREAKER.
24. PROVIDE (2) CISCO SWITCHES FOR CAMERAS AND ACCESS CONTROL MOUNTED ON RACK PER VA POLICE DEPARTMENT. PRESENT SWITCHES TO VA POLICE DEPARTMENT AND ENSURE SWITCHES ARE IN ORIGINAL PACKAGES. VA TO INSTALL. SWITCHES SHALL BE CISCO 9300 SERIES WITH 48 PORTS. COORDINATE WITH VA LOCKSMITH FOR THE CORRECT SWITCH AND CONFIGURATION.
25. STROBE TIED TO DOOR BUZZER TO NOTIFY MAINTENANCE PERSONNEL TO ANSWER THE DOOR. PROVIDE THE NECESSARY RELAYS AND DEVICES AS NEEDED FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE EXACT LOCATION AND HEIGHT WITH THE VA PRIOR TO INSTALLATION.

Revisions:	Date:

CONSULTANT
MES GROUP, INC
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DAVID KEITH LICENSE No. 85291 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/1/2023

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

Drawing Title	SPECIAL SYSTEMS & TELECOMM. FLOOR PLAN
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	Chiller Building
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date	NOV. 3, 2023
Checked	DK
Drawn	SC
Drawing Number	EY-101

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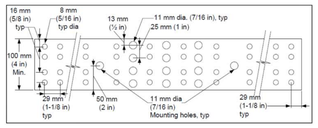
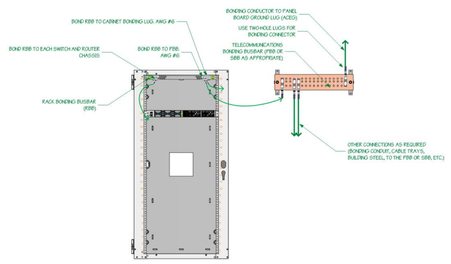
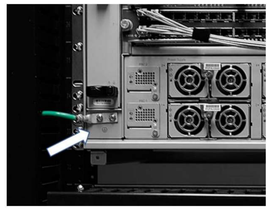


PRIMARY BONDING BUSBAR (PBB)

RACK BONDING BUSBAR (RBB)



BONDING TOPOLOGY FOR TELECOMMUNICATIONS ENCLOSURE



EXAMPLE OF NETWORK SWITCH AND SERVER GROUND CONNECTIONS

WALL-MOUNT TELECOMMUNICATIONS ENCLOSURE (TE) SALIENT CHARACTERISTICS

- NEMA-12 OR EQUIVALENT CONSTRUCTION. DUST SEALS AND REPLACEABLE INLET/OUTLET FILTERS FOR VENTS/AIRFLOW OPENINGS/FANS PROVIDED. THIS IS REQUIRED REGARDLESS OF PLANNED INSTALLATION ENVIRONMENT.
- FILTERS SHALL BE COMMERCIALLY WIDELY AVAILABLE AND INITIALLY PROVIDED WITH THE TE.
- ENVIRONMENTALLY CONTROLLED ENCLOSURES ARE ACCEPTABLE; CONSIDER WHEN THE CONDITIONS WHERE THE TE IS TO BE INSTALLED ARE OUTSIDE OF ALLOWABLE TR ENVIRONMENTAL LIMITS.
- 24" MINIMUM WIDTH TO ALLOW FOR POWER AND TELECOMMUNICATIONS CABLING MANAGEMENT TO THE SIDES OF RACK-MOUNTED EQUIPMENT.
- 30" MINIMUM DEPTH TO ALLOW FOR STRUCTURED CABLING AND POWER DISTRIBUTION AT THE REAR OF THE RACK.
- FULL-HEIGHT TES SHALL BE 26RU IN HEIGHT OR LARGER AS NEEDED TO MEET THE SPECIFIC IMPLEMENTATION REQUIREMENTS. HALF-HEIGHT TES SHALL BE A MINIMUM OF 12RU IN HEIGHT (24").
- UNIT MOUNTS TO ¾" PLYWOOD BACKBOARD VIA 16" ON CENTER (OC) MOUNTING FOR STANDARD STUD CONSTRUCTION.
- UNIT OPENS IN REAR (SWINGS OPEN) FOR ACCESS TO REAR OF INSTALLED EQUIPMENT. UNIT OPENS IN FRONT (SWINGING FRONT DOOR) FOR ACCESS TO FRONT OF INSTALLED EQUIPMENT. BOTH SECTIONS ARE ABLE TO BE PHYSICALLY LOCKED.
- ADJUSTABLE 19" EIA/TIA RACK RAILS. REAR RAIL KITS ARE REQUIRED.
- TOP AND BOTTOM KNOCKOUTS FOR CABLE/CONDUIT ENTRY. ALL KNOCKOUTS MUST BE SEALABLE AND SEALED FOR LIQUID AND DUST ENTRY RESISTANCE. THE USE OF A KNOCKOUT KIT TO CREATE LARGER PENETRATIONS IS ACCEPTABLE.
- 185W FANS TO REMOVE HEAT GENERATED IN TE ARE REQUIRED. WHETHER THESE ARE USED AS EXHAUST, INTAKE, OR BOTH IS NOT SPECIFIED.
- PROVIDE TES WITH FIBER DISTRIBUTION CABINETS, FIBER CASSETTES, UTP PATCH PANELS, HORIZONTAL CABLE MANAGEMENT UNITS, AND SHELVES AS REQUIRED FOR THE SPECIFIC IMPLEMENTATION.

DESCRIPTION:
WALL-MOUNT ENCLOSURE WITH LOCKABLE FRONT DOOR AND SWING-OUT REAR ACCESS TO EQUIPMENT. TEMPERED GLASS FRONT DOOR.

26RU:
CUBE-IT WALL-MOUNT CABINET, GEN 3, 48"H x 24"W x 30"D (1220 MM X 610 MM X 760 MM); (26U) #12-24 TAPPED RAILS, TEMPERED GLASS DOOR, GLACIER WHITE, 12419-E48
CUBE-IT OR EQUIVALENT

12RU:
CUBE-IT WALL-MOUNT CABINET, GEN 3, 24"H x 24"W x 30"D (610 MM X 610 MM X 760 MM); (12U) #12-24 TAPPED RAILS, TEMPERED GLASS DOOR, GLACIER WHITE, 12419-E24
CUBE-IT OR EQUIVALENT

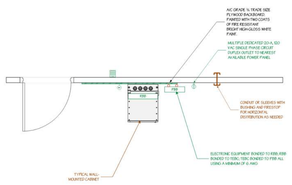
USE:
FOR INDOOR USE ONLY, IN ENVIRONMENTALLY CONTROLLED AREAS; MAY NOT BE USED OUTDOORS, IN HARSH ENVIRONMENTS, OR IN AIR-HANDLING SPACES

SIZE:
- HEIGHT: 48" (1220 MM)
- WIDTH: 24" (610 MM); 19" EIA RACK-MOUNT
- DEPTH: 30" (760 MM)

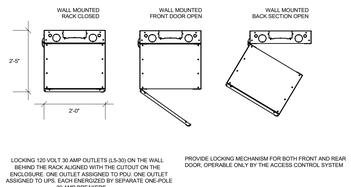
INTERIOR:
- HEIGHT: 26U
- WIDTH: 19" EIA RACK-MOUNT
- THREADED #12-24 EQUIPMENT MOUNTING HOLES
- 19"W, EIA-310-D COMPLIANT
- FAN ASSEMBLIES WITH FILTER KITS

WALL MOUNTED ENCLOSURE CHARACTERISTICS AND DESCRIPTION

26RU ENCLOSURE ELEVATIONS



TOP VIEW TELECOMMUNICATION ENCLOSURE LAYOUT



LOCKING 120 VOLT 30 AMP OUTLETS (L5-30) ON THE WALL BEHIND THE RACK ALIGNED WITH THE OUTLET ON THE ENCLOSURE. ONE OUTLET ASSIGNED TO PDU. ONE OUTLET ASSIGNED TO UPS. EACH ENERGIZED BY SEPARATE ONE-POLE 30 AMP BREAKERS.

PROVIDE LOCKING MECHANISM FOR BOTH FRONT AND REAR DOOR, OPERABLE ONLY BY THE ACCESS CONTROL SYSTEM

WALL MOUNTED ENCLOSURE CHARACTERISTICS AND DESCRIPTION

Revisions:	Date:

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11/1/2023

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	TELECOMMUNICATION DETAILS
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	Chiller Building
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date	NOV. 3, 2023
Checked	DK
Drawn	SC
Drawing Number	ET-500

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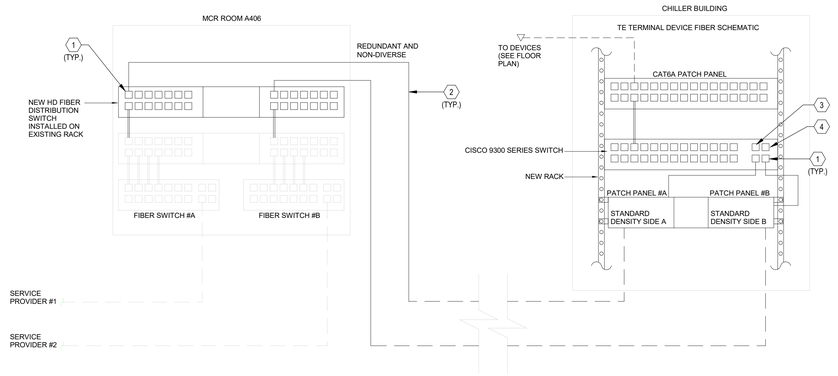
KEYNOTES

1. ALL CONNECTIONS FOR THE HD FIBER DISTRIBUTION SYSTEM SHALL BE LC TYPE.
2. PROVIDE CONTINUOUS FIBER HOMERUN FROM ROOM A406 LOCATED IN THE MAIN BUILDING TO THE NEW TELECOMMUNICATION ENCLOSURE, TE IN THE CHILLER BUILDING. NEW FIBER HOMERUNS SHALL BE (2) 12-STRAND, SINGLE MODE (SM) OS2 CABLES TO BOTH A AND B SIDE.
3. SINGLE MODE SPF MODULE SIDE A.
4. SINGLE MODE SPF MODULE SIDE B.

LINE TYPE LEGEND

- (2)12-STRAND O2S SINGLEMODE OVERHEAD FIBER
- (2)12-STRAND O2S SINGLEMODE UNDERGROUND FIBER
- CAT6 A PATCH CORD
- CAT6A CABLES



1 / ET-600 OUTSIDE PLANT (OSP) FIBER BACKBONE RISER DIAGRAM SCHEMATIC
NOT TO SCALE

Revisions:	Date:

CONSULTANT

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COA#8304
Project #23520

ARCHITECT/ENGINEER OF RECORD

AESUS design group — Architecture, Engineering, and, Sustainable Design
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STAMP

DAVID KEITH LICENSE No. 85291 STATE OF FLORIDA PROFESSIONAL ENGINEER 11/1/2023

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	FIBER BACKBONE RISER DIAGRAM
Phase	BID SET
Project Title	ADDRESS VIERA SITE DEFICIENCIES
Project Number	675-23-151
Building Number	Chiller Building
Approved:	
Location	VIERA VA MEDICAL CENTER, 2900 VETERANS WAY, MELBOURNE, FL 32940
Issue Date	NOV. 3, 2023
Checked	DK
Drawn	SC
Drawing Number	ET-600