

## VISN 8 Recycling Policy

### 1. **PURPOSE:**

VISN 8 has identified as one of its major Environmental Objectives the diversion of 50% or greater of all material currently generated by our facilities and sent to be landfilled by FY 2015. This target is directly related to the mandates stated in Executive Order (EO) 13514 and the impact this activities have amongst our communities.

### 2. **PROCEDURE:**

The VISN Recycling Program describes the Objectives and Targets that each facility needs to address in order to comply with the set standards as defined in EO 13514. Attaining the prescribed targets included the identification of all materials that have any potential to be diverted from landfill waste streams. Each Medical Center will develop a Recycling Policy or Plan that will address the 50% diversion target and will identify the following waste groups as their primary targets. In an initial event, the Facility Recycling Point of Contact will provide the requested historical data as prescribed in the Action Item and the data collection form. 5 days into the new Fiscal Year Quarter each facility Point of Contact will complete the monthly progress of waste diversion for the past Fiscal Year Quarter.

Below are the different groups of materials that have been identified as having a high potential for diversion within healthcare operations.

#### **Waste Groups Identified for Diversion:**

##### **1) Paper Recycling**

- a) Office/Confidential Paper
- b) Comingled Paper

##### **2) Container Recycling**

- a) Glass
- b) Metal Cans
- c) Plastic
- d) Wooden Pallets/Wooden Crates
- e) Corrugated Cardboard

##### **3) Hazardous Materials Recycling**

- a) All types of Fluorescent lamps
- b) Non PCB Ballasts
- c) Electronic Ballasts
- d) All Batteries (Alkaline, Lead/Acid [wet, dry, gel, all non broken], Nickel/Cadmium, Lithium Ion, Nickel/Metal Hydride)

- e) Motor Oil
- f) Cooking Oil
- g) Solvent from Laboratory Operations
- h) Precious Metals

#### **4) Construction and Demolition Debris**

- a) Wood Debris (in-house and contracted projects)
- b) Scrap metal
- c) Other construction debris (ex. concrete, asphalt, ceramic, etc.)( in-house and contracted projects)

#### **5) Miscellaneous Materials**

- a) Rubber tires
- b) Composting / yard waste
- c) Textiles/Mattresses
- d) Scrap Metal with 2237 (going through Logistics Service)
- e) Electronic Equipment

### **3. Responsibility:**

- 1) **VISN Director:** It is the responsibility of the VISN Director to provide the necessary authority and concurrence to the VISN Chain of Command to enforce and regulate this policy.
- 2) **VISN Chief Financial Officer (CFO):** It is the responsibility of the CFO to inform, instruct, and build the financial infrastructure for facilities to create and manage a Control Point that will collect the revenues from the recycling operations at each facility. This procedure is to follow the VHA Directive 2006-001.
- 3) **VISN Capital Asset Manager (CAM):**
  - i. It is the responsibility of the CAM to incorporate this policy, including its reports into the Capital Assets Management Committee reporting mechanism and to regulate this performance measure.
  - ii. It is the Responsibility of the CAM to ensure that all future construction, demolition, renovation, replacement, or any other project have included in their specifications the edited specification Section 01 74 19 "Construction Waste Management"
  - iii. **VISN GEMS Coordinator:** It is the responsibility of the VISN GEMS Coordinator to ensure compliance with this policy, provide technical support to each facility, if required, to meet this policy and to provide the results of this performance measure to the CAM Committee.
- 4) **Medical Center Directors:** It is the responsibility of the Medical Center Directors, as responsible parties for environmental compliance, to ensure that their facilities are in tract to meet their waste diversion rate of 50% or greater and comply with Executive order 13514 and this Policy. Each Medical Center Director will appoint a Recycling Coordinator, who reports in the GEMS Committee, that can

implement a recordkeeping system designed to identify, coordinate, track, and report quantities and monetary expenditures in these areas.

- 5) **Facility Associate Directors:** It is the responsibility of each Associate Center Director to provide the required administrative authority to the Facility GEMS Coordinator, the Facility Environmental Programs Manager, and the Facility Recycling Coordinator to meet their respective requirements as stated in this policy.

- 6) **Chief Facilities Managements/Engineer:** It is the responsibility of the Chief Facilities Manager/Engineer to:

- i. Ensure that all construction and demolition debris generated by in-house operations is sent to a processing facility where the waste can be segregated and the maximum amount of material can be diverted from landfills.
- ii. Ensures that all contracted construction, demolition, renovation, replacement, or any other project have included in their project specifications the edited specification Section 01 74 19 "Construction Waste Management" specification provided by the VISN CAM Office.
- iii. Ensures that the "Construction Waste Management" Requirements are monitored and specifications met.
- iv. Ensures that the facility has projected and planed for the additional areas needed to segregate and store the material.

- 7) **Facility GEMS Coordinator:**

- i. Including input from the GEMS Committee, provides technical advice and program management support to the Recycling Coordinator for the purpose of developing, training, implementing, and tracking the implementation and results of this Policy.
- ii. Will notify the other hospital operations involved in generating this material of the new methods identified by the committee.

- 8) **Facility Environmental Programs Manager and/or Recycling Coordinator:**

- i. Will develop, implement, oversee, and manage the recycling programs at each Medical Center (including satellite facilities) and be responsible for their day-to-day operation.
- ii. Will identify and accumulate all data related to the waste disposal at the healthcare system in order to prepare routine reports and a respond to data requests by regulatory officials, accrediting organization surveyors, and agency personnel.
- iii. Will develop, in conjunction with the GEMS Coordinators, an infrastructure to manage the additional material that will now be collected.
- iv. Will coordinate all recycling functions with affected Services and seek their input concerning the development of recycling and materials recovery programs.

- v. Will ensure that all recycling programs meet the expressed intent of all accrediting, regulatory, and agency requirements including the specific requirements imposed by ancillary organizations such as AAALAC, CAP and NFPA, among others.

**4. REFERENCES:**

- a. Executive Order 13514—Federal Leadership in Environmental, Energy, and Economic Performance.
- b. VHA Directive 0057, VA Environmental Management Program, (January 15, 2020).
- c. VHA Directive 2006-001 Accounting for Recycling Revenue at VHA Facilities (January 13, 2006).
- d. DVA OFFICE OF CONSTRUCTION & FACILITIES MANAGEMENT: Master Construction Specifications (PG-18-1); Division 1 “General Requirements”; 01 74 19 “Construction Waste Management”.

**5. RESCISSION: None**

**6. EXPIRATION DATE:**

**7. FOLLOW-UP RESPONSIBILITY: VISN 8 GEMS Coordinator and Occupational Safety, Health & Environmental Program Manager.**

Nevin M. Weaver.  
Network Director, VISN 8

## 15. GREEN PROCUREMENT

### Energy-Efficient Product Purchasing

These laws and requirements are related to energy-efficient product purchasing sustainability goals.

Definitions			
Title	Legal Authority	Originating Legislation	Summary
<a href="#">Definition of Divert</a>	N/A	<a href="#">E.O. 13693 § 19(i)</a>	"Divert" or "diverting" means redirecting materials from disposal in landfills or incinerators to recycling or recovery, excluding diversion to waste-to-energy facilities.
<a href="#">Definition of Environmentally Preferable</a>	N/A	<a href="#">E.O. 13693 § 19(j)</a>	"Environmentally preferable" means products or services that have a lesser or reduced effect on human health and the environment when compared with competing products or services that serve the same purpose. This comparison may consider raw materials acquisition, production, manufacturing, packaging, distribution, reuse, use, operation, maintenance, or disposal related to the product or service.
Product Purchasing			
Title	Legal Authority	Originating Legislation	Summary
<a href="#">Definitions</a>	<a href="#">42 U.S.C. § 8259b(b)</a>	<a href="#">EPAAct 2005 § 104</a>	Definitions under 42 U.S.C. § 8259b(b) says that an "ENERGY STAR product" is rated for energy efficiency under an ENERGY STAR program. A "designated product" is designated under the Federal Energy Management Program as being among the highest 25% of equivalent products for energy efficiency. The term "product" does not include any energy consuming product or system designed or procured for combat or combat-

## Product Purchasing

Title	Legal Authority	Originating Legislation	Summary
<a href="#">ENERGY STAR and FEMP-Designated Products Procurement Requirements</a>	<a href="#">42 U.S.C. § 8259b(b)</a>	<a href="#">EPAAct 2005 § 104</a>	<p>related missions.</p> <p>ENERGY STAR and FEMP-Designated Products Procurement Requirements under 42 U.S.C. § 8259b(b) says that Federal agencies are required to incorporate energy-efficiency criteria consistent with ENERGY STAR and Federal Energy Management Program (FEMP) designated products for all procurements involving energy-consuming products and services. Agencies are exempt from procuring ENERGY STAR products or FEMP-designated products if:</p> <ul style="list-style-type: none"> <li>• An ENERGY STAR product or FEMP-designated product is not cost-effective over the life of the product, taking energy cost savings into account</li> <li>• No ENERGY STAR product or FEMP-designated product is reasonably available that meets the functional requirements of the agency.</li> </ul>
<a href="#">Electric Motors and Air-Conditioning Maintenance</a>	<a href="#">42 U.S.C. § 8259b(d)</a>	<a href="#">EPAAct 2005 § 104</a>	<p>Electric Motors and Air-Conditioning Maintenance under 42 U.S.C. § 8259b(d) says that in the case of electric motors of 1 to 500 horsepower, agencies are to select only premium efficient motors that meet a standard designated by the U.S. Department of Energy. Agencies are also encouraged to take actions to maximize the efficiency of air-conditioning and refrigeration equipment.</p>
<a href="#">Federal Purchasing Requirement</a>	<a href="#">42 U.S.C. § 8259b(e)(2)-(4)</a>	<a href="#">EISA 2007 § 524</a>	<p>Federal Purchasing Requirement under 42 U.S.C. § 8259b(e)(2)-(4) says that agencies are to buy products with low standby power of not more than 1 watt if the lower-wattage product is life cycle cost effective and if the performance of the product is not compromised.</p>
<a href="#">Procurement of</a>	<a href="#">42 U.S.C. §</a>	<a href="#">EISA 2007 §</a>	Procurement of Alternative or Synthetic Fuels

## Product Purchasing

Title	Legal Authority	Originating Legislation	Summary
<a href="#">Alternative or Synthetic Fuels</a>	<a href="#">17142</a>	<a href="#">526</a>	<p>under 42 U.S.C. § 17142 says that agencies are not to enter into procurement contracts for an alternative or synthetic fuel (other than for research or testing) unless the contract specifies that the life cycle greenhouse gas emissions associated with the production and combustion of the fuel is less than or equal to emissions from an equivalent conventional fuel.</p> <p>Promote electronics stewardship by establishing, measuring, and reporting by:</p> <ul style="list-style-type: none"> <li>(i) ensuring procurement preference for environmentally sustainable electronic products as established in subsection (i) of this section;</li> </ul>
<a href="#">Promote Electronics Stewardship</a>	N/A	<a href="#">E.O. 13693 § 3(l)</a>	<ul style="list-style-type: none"> <li>(ii) establishing and implementing policies to enable power management, duplex printing, and other energy-efficient or environmentally sustainable features on all eligible agency electronic products; and</li> <li>(iii) employing environmentally sound practices with respect to the agency's disposition of all agency excess or surplus electronic products.</li> </ul>
<a href="#">Purchase Preference Mandates</a>	N/A	<a href="#">E.O. 13693 § 3(i)(i)</a>	Meet statutory purchasing preference mandates required by EPA, Energy Star, FEMP designated.

## Product Purchasing (Non-Electric)

Title	Legal Authority	Originating Legislation	Summary
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## Product Purchasing (Non-Electric)

Title	Legal Authority	Originating Legislation	Summary
<a href="#">Biobased Products Purchasing</a>	N/A	<a href="#">E.O. 13693 § 3(i)(iv)</a>	Promote sustainable acquisition and procurement by ensuring that environmental performance and sustainability factors are included to the maximum extent practicable for all applicable procurements in the planning, award, and execution phases of the acquisition.
<a href="#">Copier and Printing Paper Use</a>	N/A	<a href="#">E.O. 13693 § 3(i)(v)</a>	Promote sustainable acquisition and procurement by reducing copier and printing paper use and acquiring uncoated printing and writing paper containing at least 30% postconsumer recycled content or higher as designated by future instruction under section 4(e) of this order.
<a href="#">Environmentally Preferable Products Purchasing</a>	N/A	<a href="#">E.O. 13693 § 3(i)(iii)</a>	<p>Promote sustainable acquisition and procurement by purchasing environmentally preferable products or services that meet or exceed specifications, standards, or labels recommended by the U.S. Environmental Protection Agency or meet environmental performance criteria developed or adopted by voluntary consensus standards bodies consistent with section 12(d) of the National Technology Transfer and Advancement Act of 1995 (Public Law 104-113) and OMB Circular A-119.</p> <p>Purchase sustainable products and services identified by EPA programs including:</p>
<a href="#">Sustainable Products Purchasing</a>	N/A	<a href="#">E.O. 13693 § 3(i)(ii)</a>	<p>(A) Significant New Alternative Policy (SNAP) chemicals or other alternatives to ozone-depleting substances and high global warming potential hydrofluorocarbons, where feasible, as identified by SNAP;</p> <p>(B) WaterSense certified products and services;</p> <p>(C) Safer Choice labeled products; and</p> <p>(D) SmartWay Transport partners and</p>

Product Purchasing (Non-Electric)			
Title	Legal Authority	Originating Legislation	Summary
			SmartWay product

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***Pre-construction Risk Assessment PCRA  
Greater Orlando/Brevard County***

Project Title: <b>Replace Roof Top Units at Viera</b>	Project Number: <b>675-18-150</b>
VAMC Competent Person (CP): Manuel Arandia	Date: 9/25/2017
In-House or contracted Out: contracted Out	

CP Qualifications: OSHA 30, COR II

**Scope of Project:**

This project will design and replace Roof Top Air Handling Units and install a boiler/water heater at Viera Out Patient Clinic (OPC). Project requires complete replacement of thirty-six (36) RTUs, installation of new boiler/water heater to provide heating medium for the RTUs & for humidity control, and install/upgrade/modify supporting equipment and devices to increase efficiency, ensure reliability, and satisfactory operation of the HVAC system.

**PATIENT RISK GROUP**

Low Risk	Medium Risk	High Risk	Highest Risk
<ul style="list-style-type: none"> <li>▪ Office areas</li> <li>▪ Conference/ Education Rooms</li> <li>▪ Roof Top/Mecha- nical Rooms</li> </ul>	<ul style="list-style-type: none"> <li>▪ Cardiology</li> <li>▪ Echocardiography</li> <li>▪ Endoscopy</li> <li>▪ Nuclear Medicine</li> <li>▪ Physical Therapy</li> <li>▪ Radiology/MRI</li> <li>▪ Respiratory Therapy</li> <li>▪ DOM</li> <li>▪ Rehab</li> <li>▪ PV, Etc.</li> <li>▪ Outpatient Clinic Exam Areas</li> </ul>	<ul style="list-style-type: none"> <li>▪ Medical Units</li> <li>▪ Emergency Room</li> <li>▪ Interventional Radiology</li> <li>▪ Laboratories (specimen)</li> <li>▪ Dialysis</li> <li>▪ Minor Surgery</li> <li>▪ Pharmacy</li> <li>▪ Post Anesthesia Care Unit</li> <li>▪ Surgical Units</li> <li>▪ CLC</li> </ul>	<ul style="list-style-type: none"> <li>▪ Cardiac Cath Lab</li> <li>▪ Central Sterile Supply</li> <li>▪ Intensive Care Units</li> <li>▪ Oncology</li> <li>▪ Operating rooms</li> <li>▪ Sterile Processing (SPS)</li> <li>▪ Pharmacy Compounding areas</li> </ul>

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**RISK ASSESSMENT MATRIX: IC GUIDELINES FOR CONSTRUCTION**

<b>TYPE A</b>	<b>Inspection and Non-Invasive Activities.</b> Includes, but is not limited to: <ul style="list-style-type: none"> <li>removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet</li> <li>painting (but not sanding)</li> <li>wall covering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.</li> </ul>
<b>TYPE B</b>	<b>Small scale, short duration activities which create minimal dust</b> Includes, but is not limited to: <ul style="list-style-type: none"> <li>installation of telephone and computer cabling</li> <li>access to chase spaces</li> <li>cutting of walls or ceiling where dust migration can be controlled.</li> </ul>
<b>TYPE C</b>	<b>Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies</b> Includes, but is not limited to: <ul style="list-style-type: none"> <li>sanding of walls for painting or wall covering</li> <li>removal of floor coverings, ceiling tiles and casework</li> <li>new wall construction</li> <li>minor duct work or electrical work above ceilings</li> <li>major cabling activities</li> <li>any activity that cannot be completed within a single work shift.</li> </ul>
<b>TYPE D</b>	<b>Major demolition and construction projects</b> Includes, but is not limited to: <ul style="list-style-type: none"> <li>activities which require consecutive work shifts</li> <li>requires heavy demolition or removal of a complete cabling system</li> <li>new construction.</li> </ul>

<b>CONSTRUCTION RISK REDUCTION PLAN</b>			
Location of Construction: outside the building/bldg. 1 (room A505)		Project Start Date: TBD	
Contractor Performing Work: TBD		Estimated Duration: 360 days (estimate)	
√	<b>CONSTRUCTION ACTIVITY</b>	√	<b>IC RISK GROUP</b>
	Type A: Inspection, non-invasive, minor	√	Low Risk
√	Type B: Small scale, short duration, moderate levels.		Medium Risk
	Type C: Moderate to high level of dust.		High Risk
	Type D: Major demolition and construction projects.		Highest Risk
	<b>**NOTE: If mold is discovered, stop work and notify COTR immediately.</b>		<b>See Appendix A for additional requirements.</b>

**Description of Required Infection Control Precautions by Class**

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Patient Risk Group	TYPE A	TYPE B	TYPE C	TYPE D
LOW Risk Group	I	II	II	III/IV
MEDIUM Risk Group	I	II	III	IV
HIGH Risk Group	I	II	III/IV	IV
HIGHEST Risk Group	II	III/IV	III/IV	IV

	During Construction Project	Upon Completion of Project
<b>CLASS I</b>	<ol style="list-style-type: none"> <li>1. Execute work by methods to minimize raising dust from construction operations.</li> <li>2. Immediately replace a ceiling tile displaced for visual inspection</li> </ol>	
<b>CLASS II</b>	<ol style="list-style-type: none"> <li>1. Provide active means to prevent airborne dust from dispersing into atmosphere.</li> <li>2. Water mist work surfaces to control dust while cutting.</li> <li>3. Seal unused doors with duct tape.</li> <li>4. Block off and seal air vents.</li> <li>5. Place dust mat at entrance and exit of work area</li> <li>6. Remove or isolate HVAC system in areas where work is being performed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Wipe work surfaces with disinfectant.</li> <li>2. Contain construction waste before transport in tightly covered containers.</li> <li>3. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area.</li> <li>4. Remove isolation of HVAC system in areas where work is being performed.</li> </ol>
<b>CLASS III</b>	<ol style="list-style-type: none"> <li>1. Remove or Isolate HVAC system in area where work is being done to prevent contamination of duct system.</li> <li>2. Complete all critical barriers i.e. sheetrock, 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.</li> <li>3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> <li>4. Contain construction waste before transport in tightly covered containers.</li> <li>5. Cover transport receptacles or carts. Tape covering unless solid lid.</li> </ol>	<ol style="list-style-type: none"> <li>1. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department.</li> <li>2. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction.</li> <li>3. Vacuum work area with HEPA filtered vacuums.</li> <li>4. Wet mop area with disinfectant.</li> <li>5. Remove isolation of HVAC system in areas where work is being performed.</li> </ol>
<b>CLASS IV</b>	<ol style="list-style-type: none"> <li>1. Isolate HVAC system in area where work is being done to prevent contamination of duct system.</li> <li>2. Complete all critical barriers i.e. sheetrock, 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.</li> <li>3. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units.</li> <li>4. Seal holes, pipes, conduits, and punctures appropriately.</li> <li>5. 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.</li> <li>6. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area.</li> <li>7. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove barrier material carefully to minimize spreading of dirt and debris associated with construction.</li> <li>2. Contain construction waste before transport in tightly covered containers.</li> <li>3. Cover transport receptacles or carts. Tape covering unless solid lid</li> <li>4. Vacuum work area with HEPA filtered vacuums.</li> <li>5. Wet mop area with disinfectant.</li> <li>6. Remove isolation of HVAC system in areas where work is being performed.</li> </ol>

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**GUIDELINES TO ADDRESS WATER INTRUSION**

**INITIAL STEPS:**

1. Identify the source of moisture (see the table below for clean/contaminated categories)
2. Halt further intrusion by repairing the water leak
3. Use moisture detection equipment to evaluate the extent of moisture intrusion (eg, moisture meter, infrared camera, borescope).
4. **Determine how long materials have been wet.**
  - a. If less than 48 hours and Category 1 flood water, attempts to dry materials are acceptable using HEPA wet vacs, air movers, dehumidifiers.
  - b. If more than 48 hours, wet/absorbent items must be removed and discarded. The presence of mold should be assumed.
  - c. If time frame is unknown, treat as wet for more than 48 hours

<b><u>Category of Flood Water</u></b>	<b><u>Caused by</u></b>
<b>Category 1- Clean water</b>	<ol style="list-style-type: none"><li>1. Clean water from a sink overflow,</li><li>2. broken water or steam line,</li><li>3. rainwater infiltration (roof leak)</li><li>4. Condensation</li></ol>
<b>Category 2 – Gray Water</b>	<ol style="list-style-type: none"><li>1. treated cooling water,</li><li>2. some surface water,</li><li>3. fire suppression systems,</li><li>4. Discharged water from sinks, washers, etc</li></ol>
<b>Category 3 – Black Water</b>	<ol style="list-style-type: none"><li>1. water from sewers,</li><li>2. storm drain back ups</li><li>3. some surface water (highly contaminated water)</li></ol>

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<b>Response Procedures For Water Type Matrix</b>			
<b>Patient Risk Group (IC)</b>	<b>Category I (Clean water)</b>	<b>Category II (Gray water)</b>	<b>Category III (Black water)</b>
Low Risk	W-1	W-2	W-3
Medium Risk	W-1	W-2	W-3
High Risk	W-1	W-3	W-3
Highest Risk	W-1	W-3	W-3

## Description of Required Response Procedures for Water Intrusion

### Water Intrusion Work Practice Level W-1

1. Non-Porous Surfaces and Hard Surfaces and Floors:	<ul style="list-style-type: none"> <li>remove water as indicated above and mop with floor cleaner.</li> </ul>
2. <i>Overhead fixtures and equipment with trapped water:</i>	<ul style="list-style-type: none"> <li>open to air, wipe down and dehumidify.</li> </ul>
3. <i>Porous Surfaces:</i> Carpet / Textiles / Fibrous Coverings	<ul style="list-style-type: none"> <li>If wet greater than 48 hours or time frame is unknown, discard and replace porous materials.</li> <li>If wet less than 48 hours, determine salvageable status and follow procedure below</li> <li>Extract water if possible, disengage carpet and remove pad;</li> <li>secure carpet to original tack strips and/or elevate without pad and apply drying procedures (i.e. fans/dehumidification);</li> <li><b>check floor and carpet moisture content</b> and re-install carpet when dried; and,</li> <li>complete final carpet or upholstery cleaning to limit microbial growth and development of odors.</li> </ul>
4. <i>Wallboard / Hard-line Ceilings: IMPORTANT ensure all electrical and supply conveyance systems are de-energized</i>	<ul style="list-style-type: none"> <li>If wet greater than 48 hours or time frame is unknown, remove all sheetrock to 6 inches beyond the high water mark and apply drying procedures to area</li> <li>In the absence of insulation, and if wet less than 48 hours, may be dried in place. Open areas (ports) per stud spacing to ventilate</li> <li>apply drying procedures; and,</li> <li>check for moisture content post drying</li> <li>patch/paint over wall ports when appropriately dried</li> </ul>

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5. Pipe Insulation (overhead):	<ul style="list-style-type: none"> <li>● open the area to ventilate space;</li> <li>● remove pipe insulation;</li> <li>● apply drying procedures to space;</li> <li>● replace pipe insulation with new material; and,</li> <li>● replace coverings.</li> </ul>
6. Drop Ceilings:	<ul style="list-style-type: none"> <li>● replace wet ceiling tiles.</li> </ul>
7. Paper / Files:	To be determined based on scenario i.e. amount of water, importance of files.

**Water Intrusion Work Practices Level W-2**

All persons working in and around Category II (Gray) water during the initial stages of response and prior to completion of cleaning and restoration should be equipped with PPE including but not limited to the following:

- industrial-grade rubber gloves;
- full eye/splash protection (goggles);
- protective suit;
- rubber boots; and,
- hard hat if overhead hazards exist.

Non-Porous Surfaces, Hard Surfaces and Floors:	<ul style="list-style-type: none"> <li>● remove water as indicated above;</li> <li>● remove and dispose if penetration is observed (buckling, warping, or bubbling);,</li> <li>● clean and disinfect sub-floor with EPA-approved disinfectant; and,</li> <li>● flush clean cracks if floor is intact, (pressure wash) with EPA-approved disinfectant and recover with HEPA filtered extraction unit (use caution and adequate controls to minimize the distribution of bio aerosols and fluid contaminants).</li> </ul>
Overhead Fixtures (trapped water):	<ul style="list-style-type: none"> <li>● open to air and wipe down with EPA-approved disinfectant and dehumidify.</li> </ul>
Porous Surfaces: <b>IMPORTANT</b> ensure all electrical and supply conveyance systems are de-energized  Carpet / Textiles / Fibrous Coverings:	<ul style="list-style-type: none"> <li>● If wet greater than 48 hours or time frame is unknown, discard and replace porous materials.</li> <li>● If wet less than 48 hours, determine salvageable status and follow procedure below</li> <li>● Extract water if possible,</li> <li>● disengage carpet and remove pad;</li> <li>● secure carpet to original tack strips and/or elevate without pad and apply drying procedures (i.e. fans/dehumidification);</li> <li>● <b>check floor and carpet moisture content</b> and re-install carpet when dried; and,</li> <li>● complete final carpet or upholstery cleaning to limit microbial growth and development of odors.</li> </ul>

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Wallboard/Hard- Ceilings:	<ul style="list-style-type: none"> <li>● If wet greater than 48 hours or time frame is unknown, remove all sheetrock to 6 inches beyond the high water mark and apply drying procedures to area</li> <li>● In the absence of insulation, and if wet less than 48 hours, may be dried in place. Open areas (ports) per stud spacing to ventilate</li> <li>● apply drying procedures; and,</li> <li>● check for moisture content post drying</li> <li>● patch/paint over wall ports when appropriately dried</li> </ul>
Suspended Ceilings	<ul style="list-style-type: none"> <li>● remove and replace all wet ceiling tiles; and,</li> <li>● wipe supports with EPA-approved disinfectant.</li> </ul>
Pipe Insulation	<ul style="list-style-type: none"> <li>● assess condition (integrity and ACM);</li> <li>● open to ventilate space;</li> <li>● remove contaminated pipe insulation;</li> <li>● wipe structure with EPA-approved disinfectant;</li> <li>● apply drying procedures;</li> <li>● replace pipe insulation with new material; and,</li> <li>● replace coverings.</li> </ul>
Paper / Files	<ul style="list-style-type: none"> <li>● Dispose of all highly absorbent saturated materials.</li> </ul>

Water Intrusion Work Practices Level **W-3**

Non-Porous Surfaces and Hard Surfaces and Floors:	<ul style="list-style-type: none"> <li>● remove water as indicated above;</li> <li>● remove and dispose if penetration is observed (buckling, warping, or bubbling);</li> <li>● clean and disinfect subfloor with EPA-approved disinfectant; and,</li> <li>● flush clean cracks if floor is intact, (pressure wash) with EPA-approved disinfectant and recover with HEPA filtered extraction unit (use caution and adequate controls to minimize the distribution of bio aerosols and fluid contaminants).</li> </ul>
Overhead Fixtures (trapped water):	<ul style="list-style-type: none"> <li>● open to air and wipe down with EPA-approved disinfectant/dehumidify.</li> </ul>
Porous Surfaces: IMPORTANT ensure all electrical and supply conveyance systems are de-energized	<ul style="list-style-type: none"> <li>● carpet / textiles / fibrous coverings;</li> <li>● clear the area to expose wet surfaces (treat moved items and prevent cross contamination);</li> <li>● disengage and remove carpet and pad and dispose; and,</li> <li>● clean and disinfect floor and replace with in kind floor covering.</li> </ul>

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Wallboard / Hard Ceilings:	<ul style="list-style-type: none"> <li>● remove and dispose all material (including insulation) to nearest seam past affected area;</li> <li>● remove all sheetrock to at least 6 inches beyond the high water mark</li> <li>● apply EPA-approved disinfectant to exposed surfaces (studs and plates);</li> <li>● apply drying procedures; recheck for moisture</li> <li>● install new drywall.</li> </ul>
Pipe Insulation	<ul style="list-style-type: none"> <li>● assess condition (integrity and ACM);</li> <li>● open to ventilate space;</li> <li>● remove pipe insulation;</li> <li>● disinfect pipe by wiping down with EPA-approved disinfectant;</li> <li>● apply drying procedures; recheck for moisture</li> <li>● replace pipe insulation with new material; and,</li> <li>● replace coverings.</li> </ul>
Suspended Ceilings	<ul style="list-style-type: none"> <li>● remove and replace all wet ceiling tiles; and,</li> <li>● disinfect supports by wiping with EPA-disinfectants.</li> </ul>
Paper / Files	<ul style="list-style-type: none"> <li>● dispose of all highly absorbent saturated materials.</li> </ul>

## OVAMC ILSM Requirement Assessment Worksheet

● These criteria will be used to evaluate smoke compartments in which a Life Safety Code deficiency has been identified, or in which construction, renovation or alteration activities are planned. Any “Yes” answers below may require ILSM to address occupant safety.

- Document any methods you plan on using, and what measures were taken under comments.

**Submitter:** Manuel Arandia

**Date Submitted:** TBD

**Project:** Replace Roof Top Units at Viera

**Expected Duration:** 360 days

**Building:** 1

**Floor:** 1st floor (mechanical room, D603) and roof top

Criteria	YES	NO
The issue/work alters or significantly compromises exit access, exiting, or exit discharge building elements		X

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The issue/work compromises building compartmentation including fire or smoke walls, floor/ceiling assemblies, corridor walls, use area doors, or other defend in place elements		X
The issue/work impairs the building Fire Protection Systems (alarm, sprinklers, suppression) for more than 4 hours in a 24-hour period.		X
The activity includes Hot Work	X	
The activity includes large quantities of combustible materials, flammable materials, or generation of large amounts of dust and debris.		X
Access to the area by emergency forces will be impaired		X
Will non/limited combustible partitions be required?		X

**[X] ILSM is required\***

**[ ] ILSM are not required\***

\* A yes answer to any of the above criteria may require that an ILSM be initiated. Use the following check sheet to denote the interim life safety measures appropriate for the issue/work which compromises life safety. Periodic inspections of other aspects of an ILSM shall be completed during the pendency of the ILSM. All forms will be maintained by the COR with copies in the project file.

If an ILSM is not required, provide the completed assessment only to the safety manager for review. Maintain a copy in the project file.

**Work:**

**TBD**

**Comments:**

Reviewed by: \_\_\_\_\_ Safety Manager Date: \_\_\_\_\_

Approved by: \_\_\_\_\_ Chief Facilities Management Date: \_\_\_\_\_

## Interim Life Safety Measures Check Sheet to be implemented

**Project Name:** Replace Roof Top Units at Viera

**Log Number:** TBD

**Place a check mark in each applicable ILSM activity as determined by an assessment of the risks identified in the Assessment Work Sheet.**

### **#1 INSPECTIONS / SURVEILLANCE**

- ☐ Increased surveillance of buildings, grounds, and equipment: shift / daily / other:
- ☐ Means of exiting construction areas inspected daily
- ☒ Implementation of Fire Watch
- ☐ Not applicable

### **#2 ACCESSIBILITY**

- ☐ Maintenance of escape/egress routes from construction areas

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☐ Maintenance of access to emergency services for emergency equipment, fire alarm pull stations, Fire Department connections (internal & external)

☒ Not applicable

**#3 EQUIPMENT – LIFE SAFETY**

☐ Temporary fire alarm, detection, suppression system in place

☐ Monthly testing and inspection of temporary systems

☐ Provide additional firefighting equipment in project area

☒ Provide additional firefighting equipment in adjacent areas

☐ Not applicable

**#4 COMMUNICATIONS**

☐ Notification to Municipal Fire Department (or applicable emergency forces group)

☒ Not applicable

**#5 CONSTRUCTION MATERIALS / PRACTICES**

☐ Partitions smoke tight and constructed of noncombustible or limited combustible materials

☐ Prohibition of smoking throughout building and in and near construction areas

☐ Implement appropriate storage practices

☒ Implement appropriate housekeeping practices

**# 6 FIRE DRILLS**

☐ Implement appropriate debris removal practices

☒ Not applicable

☐ 2 fire drills per shift per quarter throughout Hospital (one additional drill beyond requirement of EC.5.30).

☐ 2 fire drills per shift per quarter in areas adjacent to project (one additional drill beyond requirement of EC.5.30)

**#7 TRAINING**

☐ More than 2 fire drills per shift per quarter throughout Hospital. If yes, how many\_\_\_\_\_

☐ More than 2 fire drills per shift per quarter in areas adjacent to project. If yes, how many\_\_\_\_\_

☐ Additional training for staff in immediate area

☐ Additional training for staff throughout hospital

☐ Additional training for incident response team

☐ Training to promote awareness of fire-safety building deficiencies, construction hazards, ILSM

☐ Training on changes in physical environment (egress routes)

☐ Training on firefighting equipment

☐ Training on compensating for impaired structural or compartmentalization features of fire safety

☒ Not applicable

Other measures:\_\_\_\_\_

Comments:\_\_\_\_\_

***Pre-construction Risk Assessment PCRA  
Greater Orlando/Brevard County***

Prepared by: Manuel Arandia

Reviewed by: \_\_\_\_\_ Safety Manager    Date: \_\_\_\_\_

Approved by: \_\_\_\_\_ Chief Facilities Management Date: \_\_\_\_\_

<b>ADDITIONAL CONSTRUCTION SAFETY QUESTIONS</b>
---

Will project place contracted workers at risk for transmission of Mycobacterium tuberculosis? If yes, refer to MCP 00Q-09 for guidance. <b><u>NO</u></b>
--

Has the Job Site been evaluated for ACM or other environmental hazards? <b><u>NO</u></b> If yes provide comments. <b>ACM test and abatement is included in the SOW as contractor's responsibility.</b>
--

Will Project create potential air quality issues other than identified in ICRA? <b><u>NO</u></b> Is any work or equipment near air intakes? <b><u>NO</u></b> Are Volatile Organic Compounds VOC being used? <b><u>NO</u></b> If yes, please explain and note plans to minimize: <b>PCRA to be followed at all times.</b>
--

Will project create potential noise issues? <b><u>YES</u></b> If yes, please explain and note plans to minimize: <b>High noise/vibration producing tasks will be scheduled after normal working hours and will be limited in short duration</b>
---

Will project create potential vibration issues? <b><u>YES</u></b> If yes, please explain and note plans to minimize: <b>High noise/vibration producing tasks will be scheduled after normal working hours and will be limited in short duration</b>
---

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Is contractor required to provide 14 days notice for utility shutdowns? <u>YES</u> Will contractor/COTR follow Utility Shutdown SOP when utilities are shut down? <u>YES</u> Will contractor be given emergency notification telephone numbers for unplanned utility failures? <u>YES</u>
Will project create a potential for leaks? <u>NO</u> If yes, please include in contract for contractor to dike any floor penetration in construction area.
Any additional potential issues that affect EOC. <u>NO</u>
Will contractors be instructed to wear badges at all times while on site? <u>YES</u> Will badges identify name, employer name, project name and location and expiration date? <u>YES</u> Will police be notified if project takes place on off-hours? <u>YES</u>
Will contract require general and sub-contractor's construction workers all complete the OSHA 10-hour construction worker course or the 30-hour construction course with OSHA certified training? <u>YES</u>
Has/will the construction safety committee reviewed drawings and specs and signed off on each design submission? <u>NO</u>
Will Contracting Officer be requested to evaluate and consider past safety records of prospective contractors in the awarding of contracts? <u>NO</u>
Will contractor submittals include the names, qualifications and training dates for contractor CP designated to administer the site-specific safety program, as well as the CP for other activities as required by OSHA regulation (such as scaffolds, cranes, excavation, etc.) <u>YES</u> Will COR provide copy of the site specific safety program to the Construction Safety Committee? <u>YES</u>
Is any portion of the project related to a special field that the CP does not have the required background for (for example, scaffolding, cranes, or excavation)? <u>NO</u> Will another VA Employee be CP for those special fields? <u>NO</u>

## **APPENDIX A**

### **MOLD REMEDIATION**

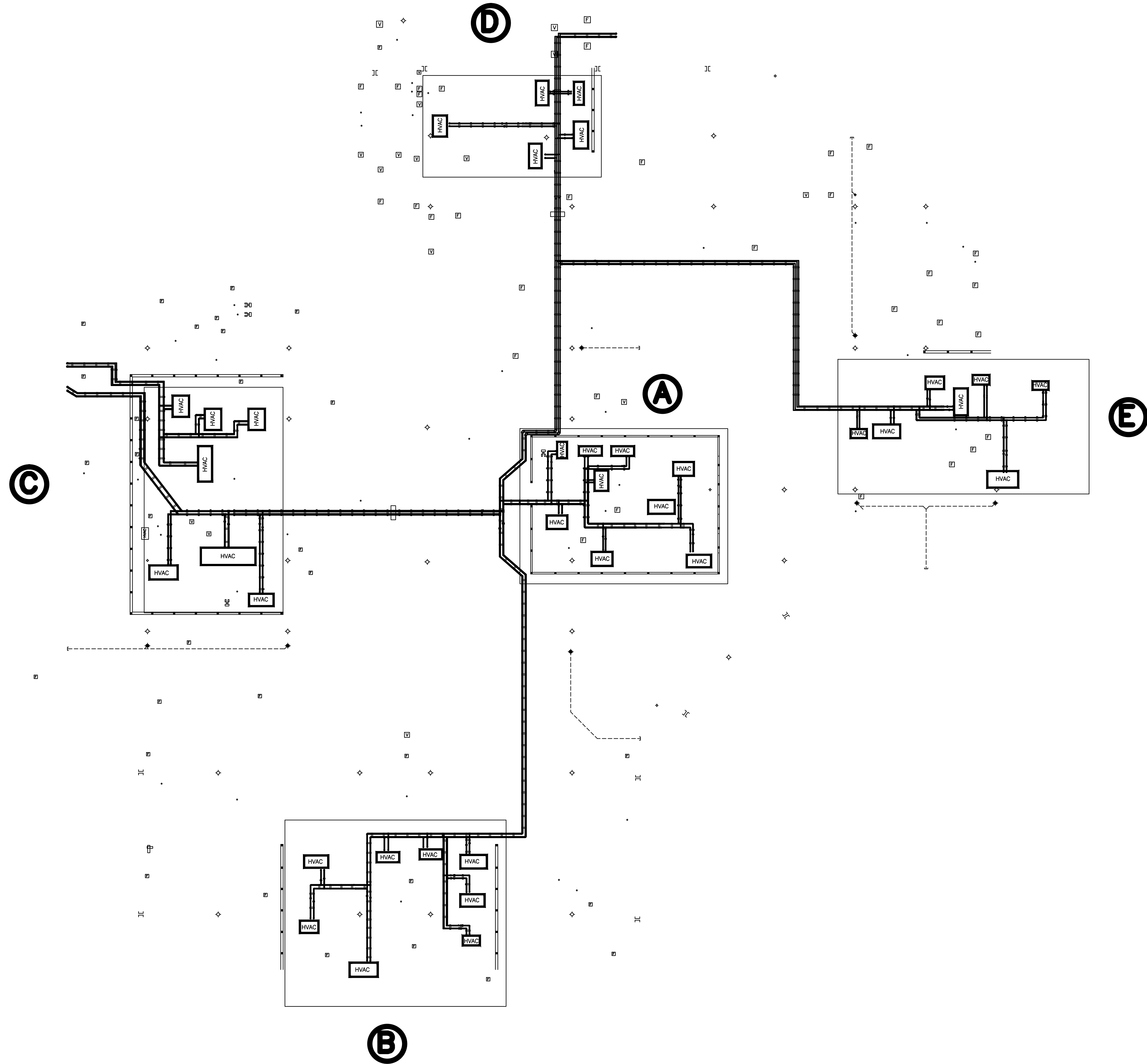
<b>MOLD REMEDIATION</b>	<b>AMOUNT IDENTIFIED</b>	<b>REQUIREMENTS</b>
<b>Source Containment</b>	Total area of mold less than 3 sq ft	<ol style="list-style-type: none"><li>1. Contact COTR</li><li>2. Apply self-adhering plastic to entire moldy surface or SECURELY tape 6-mil poly over the ENTIRE moldy surface</li><li>3. Remove material and wrap or bag and securely. Enclose ALL moldy contents or materials in 6 mil poly or comparable packaging,</li><li>4. Avoid crushing materials or other actions that would generate dust and disperse fungal spores and fragments into the air.</li><li>5. Identify and remove any source of water intrusion</li><li>6. Remediators must wear appropriate PPE</li></ol>
<b>Local Containment</b>	Area of mold greater than 3 sq ft but less than 100sq ft	<ol style="list-style-type: none"><li>1. Contact COTR immediately</li><li>2. Treat as ICRA Type C (or type D if work meets criteria for Type D) work and follow requirements based Patient Risk Group. (Refer to ICRA Matrix at the bottom of page 2)</li><li>3. Construction should stop until barriers have been erected and <b>negative air established</b>.</li><li>4. Identify and remove any source of water intrusion</li><li>5. Remediators must wear appropriate PPE</li></ol>
<b>Full Containment</b>	Area of mold greater than 100sq feet	Contact COTR, Safety and Infection Control for guidance.

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I have read and understand the requirements of this Pre-Construction Risk Assessment and will comply with its requirements.

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SIGNATURES:		Date:
Project COTR: Manuel Arandia		
Infection Control		
Chief of Police & Law Enforcement		
GEMS Coordinator		
Chief Engineer		
Union Safety Officer		
Safety Manager		
Chair – Construction Safety Committee		
Contractor		
Other as Applicable		



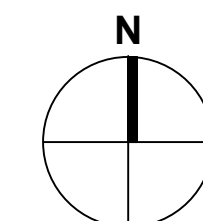
# VA MEDICAL CENTER ORLANDO, FLORIDA

REBUID VIERA ROOF TOP UNITS

VHA NRM 675-17-854SL

DRAWING TITLE: FLOOR PLAN (ROOF TOP)

DATE: 3/7/2017

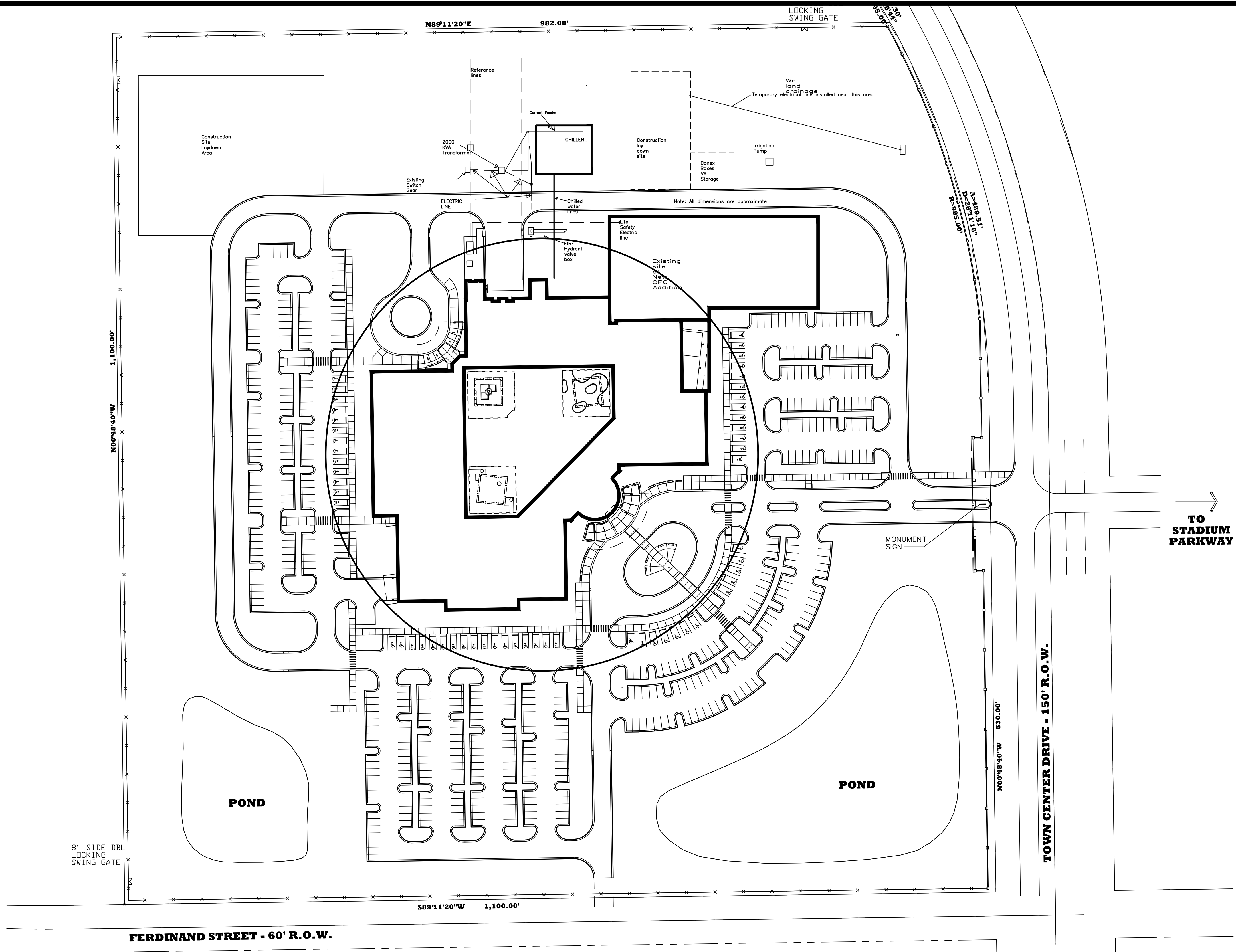


Scale: N.T.S.

Office of Construction & Facilities Management



Department of Veterans Affairs



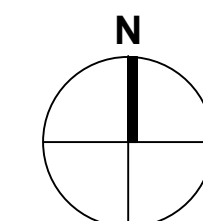
# VA MEDICAL CENTER ORLANDO, FLORIDA

REBUID VIERA ROOF TOP UNITS

VHA NRM 675-18-150

DRAWING TITLE: SITE PLAN

DATE: 5/7/2017



Scale: N.T.S.

Office of Construction & Facilities Management



Department of Veterans Affairs