

# GREAT LAKES AND OHIO RIVER DIVISION CONSTRUCTION ROUNDTABLE

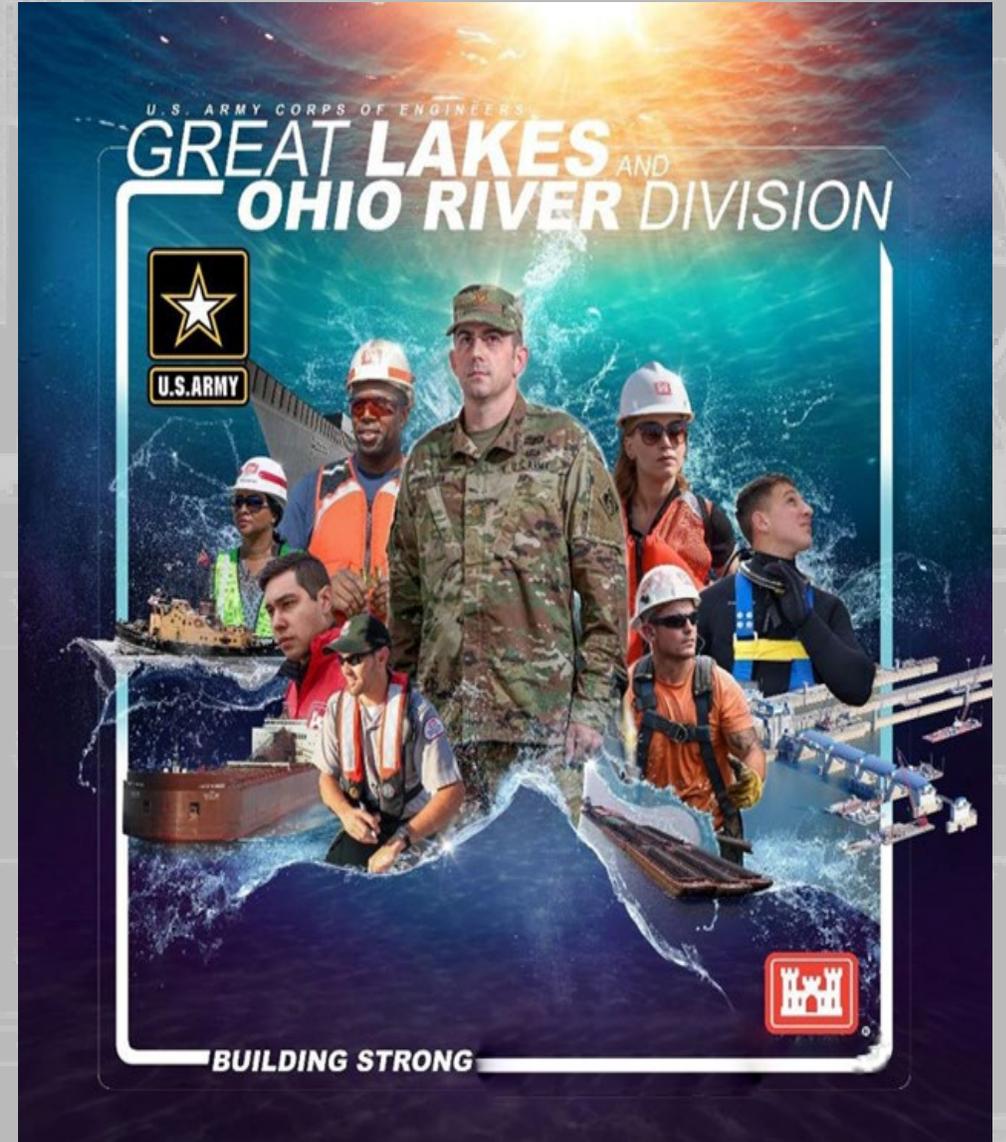
COL Antoinette Gant  
Commander, Louisville District

Linda Murphy, PE  
Deputy District Engineer, Louisville District

5 - 6 December 2019



US Army Corps  
of Engineers®





# LOUISVILLE DISTRICT AGENDA

- **MILITARY PROGRAMS**
  - Military Region
  - Reserve Program – Army Reserve and Air Force Reserve
  - Special Skills, Lessons Learned, and Tips
  - Projected Workload
- **VETERANS ADMINISTRATION PROGRAM**
  - VA Overview
  - Construction Facilities & Management (CFM) Projects
  - VHA/VISN Overview
  - VISN Current and Pending Work
  - National Cemetery Administration (NCA) Overview
- **RISK MANAGEMENT**



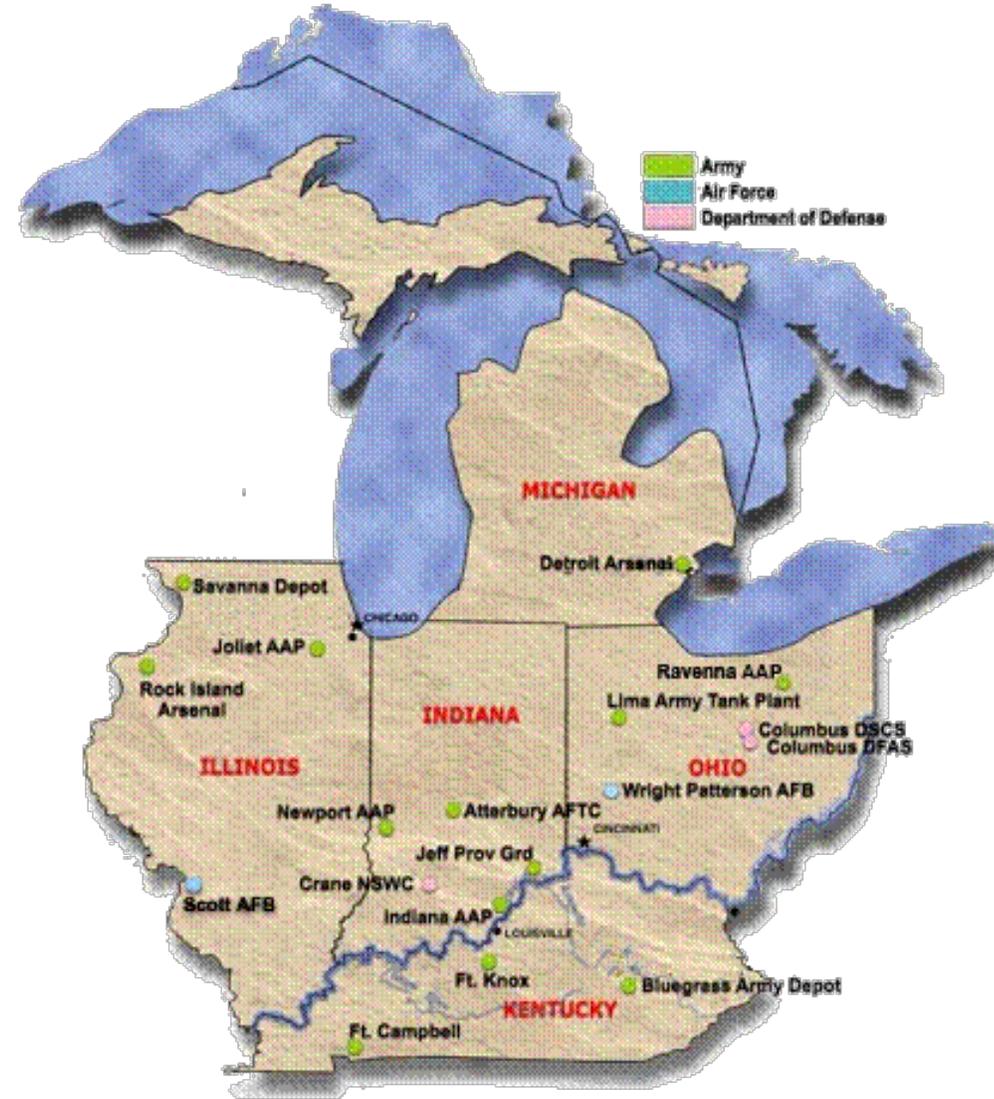
# DISTRICTS WITH MILITARY MISSION



DISTRICT	CDR	DDE	POC Name	POC #
Louisville	COL Gant	Linda Murphy		
		Military Pgm	Hans Probst	(502) 315-6809
		Reserve Pgm	Cristie Mitchell	(502) 315-6319

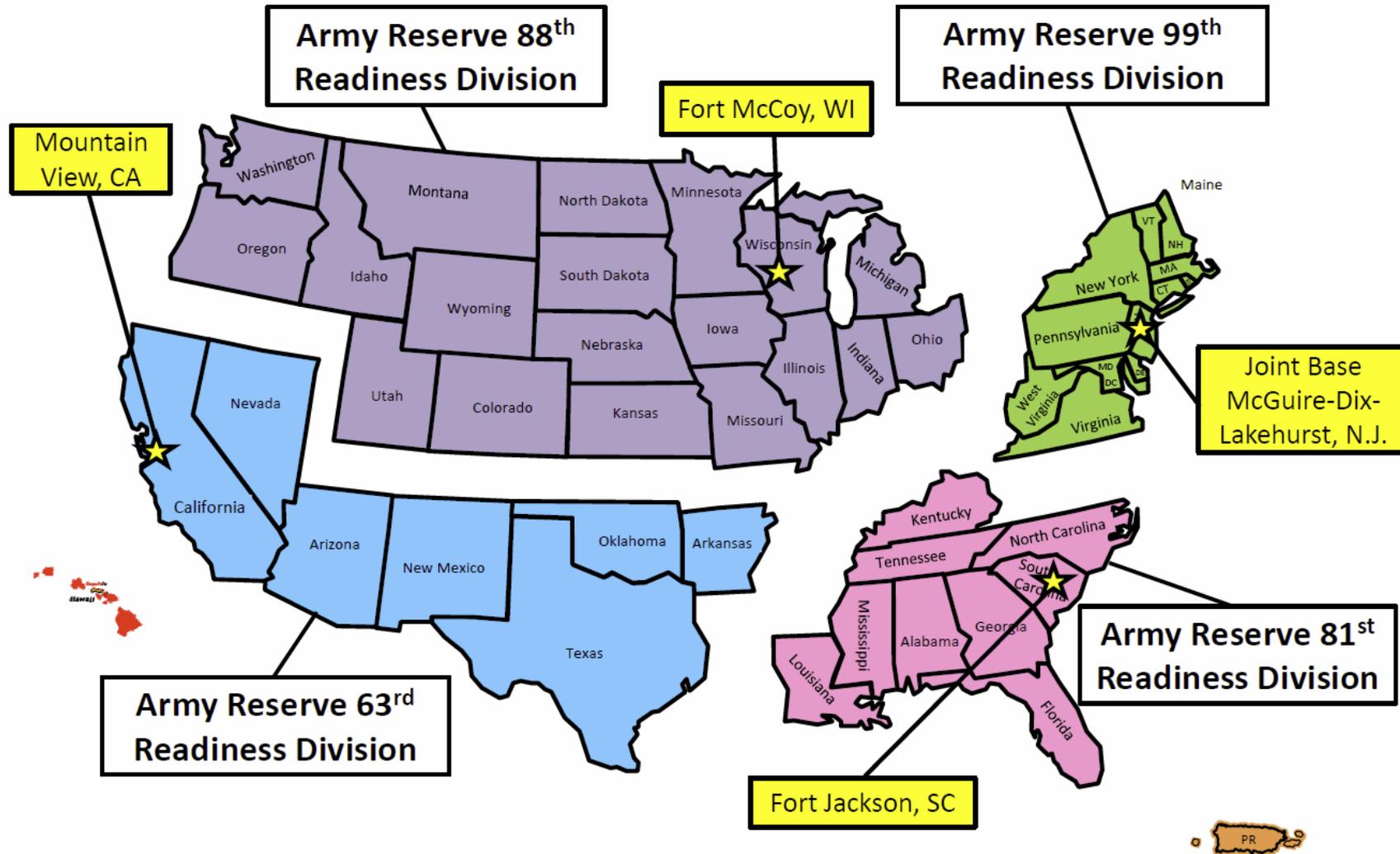


# LRL GEOGRAPHIC MILITARY PROGRAM





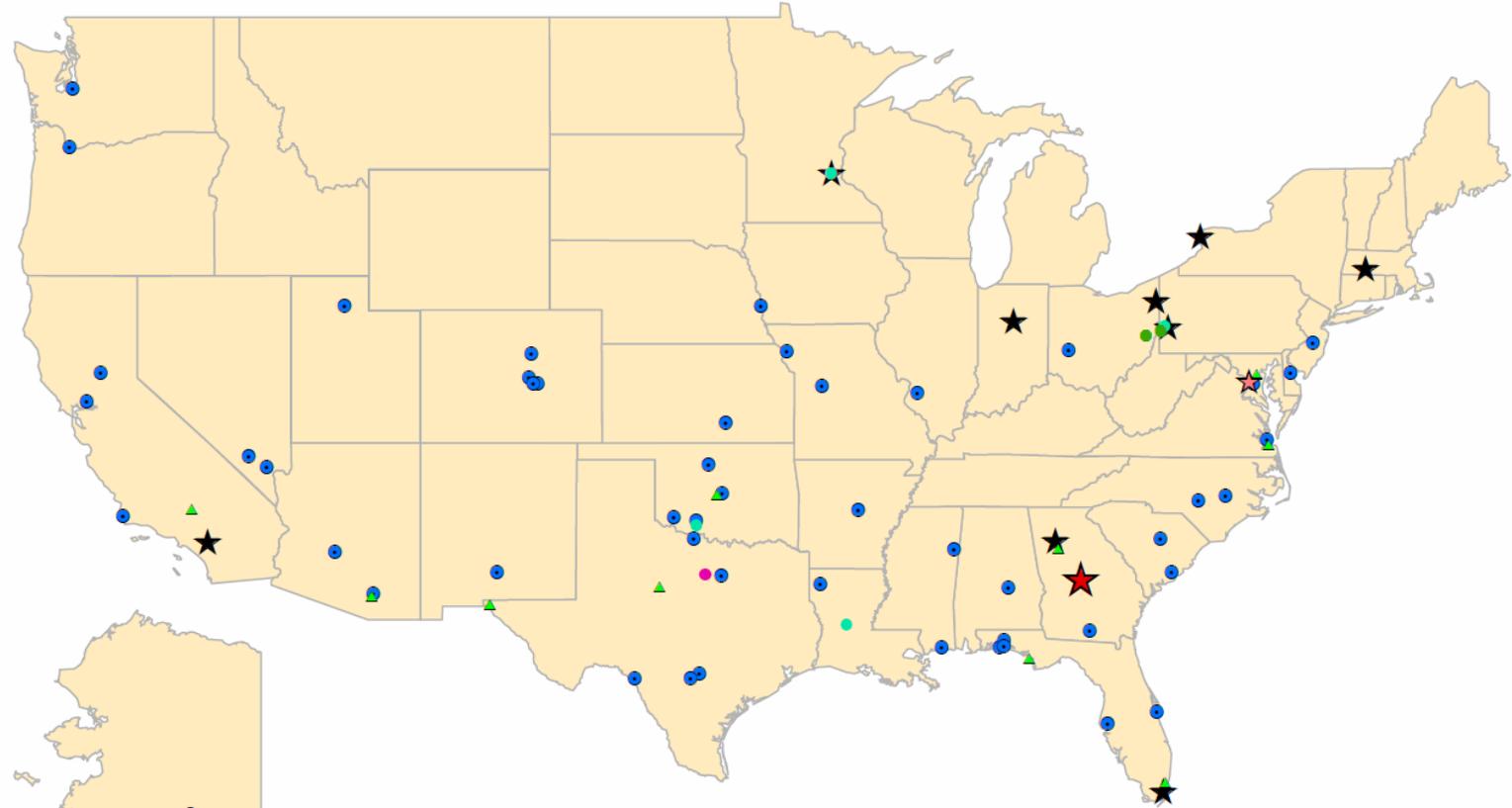
# ARMY RESERVE – NATIONAL PROGRAM MANAGER



Note: Geographic splits shown on the map represent the four Army Reserve Readiness Divisions.



# AIR FORCE RESERVE – NATIONAL PGM MANAGER



### AFRC Current Operating Locations

- ★ HQ AFRC (1)
- ★ AFRC Host Installations (9)
- ★ Pentagon (1)
- AFRC Tenants (49)
- Range (4)
- Drop Zone (2)
- ▲ Personnel Only (10)
- Misc (2)
- OCONUS Tenant (3)



# MILITARY AND VA MISSION/PROGRAM SPECIALTY SKILLS



- HVAC Systems
- Mechanical Systems
- Controls
- Full Building Commissioning
- Airfield Pavements
- Fuels Systems
- Access Control Points
- Building Renovation
- Building Foundations
- Building Envelop



# MILITARY AND VA MISSION/PROGRAM LESSONS LEARNED



- Schedules – Preliminary; Initial; Monthly Updates
- DOR Supporting DB Contract
- Manage Subcontracts
- Contractor Quality Control
  - Mechanical, HVAC, Controls, Electrical
  - Specialty Construction
- Submittal Quality
- Commissioning – Follow specs. Start early to fully comply
- Red Zone to Pre-final and Final Inspections, and Turnover – Required Deliverables. Follow specs.



# MILITARY AND VA MISSION/PROGRAM TIPS



- Detail Bidder Inquiries
- Attract and Retain High Quality Support
  - PM, Superintendent, CQC, Schedulers
  - Subcontractors
  - Trades
- PM with authority on site (or frequently on site)
- Pre-construction submittals per contract
- Partnership and Service Mentality
- “Unnecessary” Government Requirements
- Alternate Delivery Methods



# MILITARY PROGRAMS PROJECTED WORK

NAICS	Project Title	Description	Place of Performance	Anticipated Solicitation Date	Estimated \$ Range	Anticipated Acquisition Strategy
236115	Improve Family House (Phase I)	D/B/B Renovate 13 Homes; General Officer's Housing	Wright-Patterson AFB, OH	1Q FY20	\$10M - \$25M	TBD
236220	Add/Alter Consolidated Communications Facility	D/B/B Addition of 23,702 SF and Alteration of 50,956 SF - Bldg 1575	Scott Air Force Base, IL	4Q FY19	\$25M - \$100M	Unr
236220	Fire/Crash Rescue Station	D/B/B Concrete Foundation Slab, Masonry Wall, Roof System and Comm Support; 2 Adjacent Bays	Wright-Patterson AFB, OH	1Q FY20	\$5M - \$10M	Unr
236220	Automated Infantry Platoon Battle Course	D/B/B Construct a Standard Infantry Platoon Battle Course	Ft. Campbell, KY	1Q FY20	\$5M - \$10M	TBD
236220	General Purpose Maintenance Shop	D/B/B Construct a 123,000 SF Logistics Readiness Maintenance Shop	Ft. Campbell, KY	1Q FY20	\$25M - \$100M	Unr
236220	Wind Turbine	D/B/B Site Preparation and Construction of Wind Turbine	Marseilles Training Area, IL	1Q FY20	\$1M - \$5M	Unr
236220	Building 280 Modernization	D/B/B Renovate the Interior of a Portion of Bldg 280 (Electric, Mechanical, & Interiors)	Wright-Patterson AFB, OH	1Q FY20	\$5M - \$10M	TBD
236220	Building 22 Modernization	D/B/B Renovate Building 22	Wright-Patterson AFB, OH	1Q FY20	\$5M - \$10M	SBSA



# MILITARY PROGRAMS PROJECTED WORK



NAICS	Project Title	Description	Place of Performance	Anticipated Solicitation Date	Estimated \$ Range	Anticipated Acquisition Strategy
236220	Radiation Test Facility	D/B/B Construct new 20,000 SF Radiation Test Facility	Crane, IN	2Q FY20	\$5M - \$10M	TBD
236220	DTA Electrical Substation	D/B Construct a High-Voltage Electrical Substation	Detroit Arsenal, MI	2Q FY20	\$10M - \$25M	Unr
236220	Intelligence Production Complex Phase I	D/B/B Add a Controlled/ Secured Multi-Floor Facility to Intelligence Production Complex; Alter Existing Facilities for Code Compliance	Wright-Patterson AFB, OH	2Q FY20	\$100M - \$250M	Unr
236220	Renovate Bldg 1600	D/B/B Renovation of 3- story Headquarters for Air Mobility Command of approx. 314,000 SF	Scott Air Force Base, IL	2Q FY20	\$100M - \$250M	Unr
236220	Vehicle Maintenance Shop	D/B/B Construct a Medium Standard Design Vehicle Maintenance Shop	Ft. Campbell, KY	2Q FY20	\$25M - \$100M	Unr
236220	Replace Fuel Hydrant System	D/B/B replace fuel hydrant system	Wright-Patterson AFB, OH	2Q FY20	\$10M - \$25M	TBD
236220	Middle School	D/B/B Replace existing Wassom Middle School with a new 125,222 SF middle school	Ft. Campbell, KY	3Q FY20	\$25M - \$100M	Unr
236220	Repair F10856/Replace AHU #5	D/B/B Repair Air Handler Units; Replace Mix Boxes with a Variable Air Volume System for the area conditioned by AHU 5	Wright-Patterson AFB, OH	3Q FY20	\$5M - \$10M	TBD



# MILITARY PROGRAMS PROJECTED WORK

NAICS	Project Title	Description	Place of Performance	Anticipated Solicitation Date	Estimated \$ Range	Anticipated Acquisition Strategy
236220	Van Voohis Elementary	D/B/B Construct New Elementary School	Ft. Knox, KY	3Q FY20	\$25M - \$100M	Unr
236220	Joint Operations & Mission Planning Center	D/B/B New Construction of Joint Ops Facility (approx 171,803 SF)	Scott Air Force Base, IL	3Q FY20	\$25M - \$100M	Unr
236220	Microgrid	D/B/B Microgrid	Ft. Campbell, KY	4Q FY20	\$10M - \$25M	TBD
236220	AFLCMC Building 20016 Renovation	D/B/B Comprehensive Interior and Exterior Renovation and Space Consolidation of Facility 20016 (approx 231,600 SF)	Wright-Patterson AFB, OH	1Q FY21	\$25M - \$100M	TBD
236220	AFMC Headquarters Renovation, Ph I	D/B/B Renovate AFMC Bldg 262 & 266	Wright-Patterson AFB, OH	1Q FY21	\$25M - \$100M	Unr
236220	Basement & Penthouse Renovation F20045 (Phase 2)	D/B/B Renovation - Comprehensive Interior Demo and Reconfiguration of Basement, (including restroom renovation); Limited MEP Repairs to the Penthouse (including replacement of 3 AHUs); Repairs to Building Exterior (approx 56,000 SF)	Wright-Patterson AFB, OH	1Q FY21	\$10M - \$25M	TBD
236220	Replace Lucas Elementary School	D/B/B Construct New Elementary School	Ft. Campbell, KY	FY22	\$25M - \$100M	TBD
236220	AFMC Headquarters Renovation, Phase II	D/B/B Renovate Air Force Material Command Bldg 262 & 266	Wright-Patterson AFB, OH	FY22	\$25M - \$100M	Unr
236220	AFMC Headquarters Renovation, Phase III	D/B/B Renovate Air Force Material Command Bldg 262 & 266	Wright-Patterson AFB, OH	FY24	\$25M - \$100M	Unr



# MILITARY PROGRAM (RESERVE) PROJECTED WORK



NAICS	Project Title	Description	Place of Performance	Anticipated Solicitation Date	Estimated \$ Range	Anticipated Acquisition Strategy
236220	KC-46A ADAL Bldg for Alternate Mission Equipment Storage	D/B/B Renovate B4828 for Alternate Mission Equipment, Air Transportable Galley/ Lavatory Storage & Servicing, Seat Pallets, Engine Storage	Seymour Johnson ARB, NC	1Q FY20	\$5M - \$10M	SBSA
236220	Army Reserve Center	D/B/B Construct a 32,500 SF Army Reserve Training Building, 10,500 SF Vehicle Maintenance, and a 3,000 SF Storage Facility	Newark, DE	1Q FY20	\$10M - \$25M	Unr
236220	Renovate 47th Fighter Squadron-B5247	D/B/B Complete Interior Renovation of Admin/ Office Space, Lockers, Break Room, Inten Aread, Briefing Rooms, and Pilot Study Center; (includes HVAC, electrical, lighting, FP, comm, MEP finishes, and roof)	Davis Monthan Air Force Base, AZ	1Q FY20	\$1M - \$5M	TBD
236220	Renovate Communications Complex B356/B354	D/B/B Prepare/Paint Facility; Repair/Replace Finishes to Bldg. 702; Provide HVAC	Homestead Air Force Base, FL	1Q FY20	\$5M - \$10M	TBD
236220	Renovate Hangar 200	D/B/B Prepare/Paint Facility; Extend Bridge Crane to Full Bay; Construct 2,000 GSF Tool Room	Homestead Air Force Base, FL	1Q FY20	\$10M - \$25M	TBD
236220	Full Facility Renovation	D/B/B Renovation of Army Reserve Center	Caven Point, NJ	2Q FY20	\$10M - \$25M	Unr



# DISTRICTS WITH VA MISSION



DISTRICT	CDR	DDE	POC Name	POC #
Louisville	COL Gant	Linda Murphy	Matt Lowe	(502) 315-6877
Chicago	COL Reisinger	Steve Fisher	Dave Bucaro	(312) 846-5583
Buffalo	LTC Toth	Dave Romano	Gerry DiPaola	(716) 849-4228



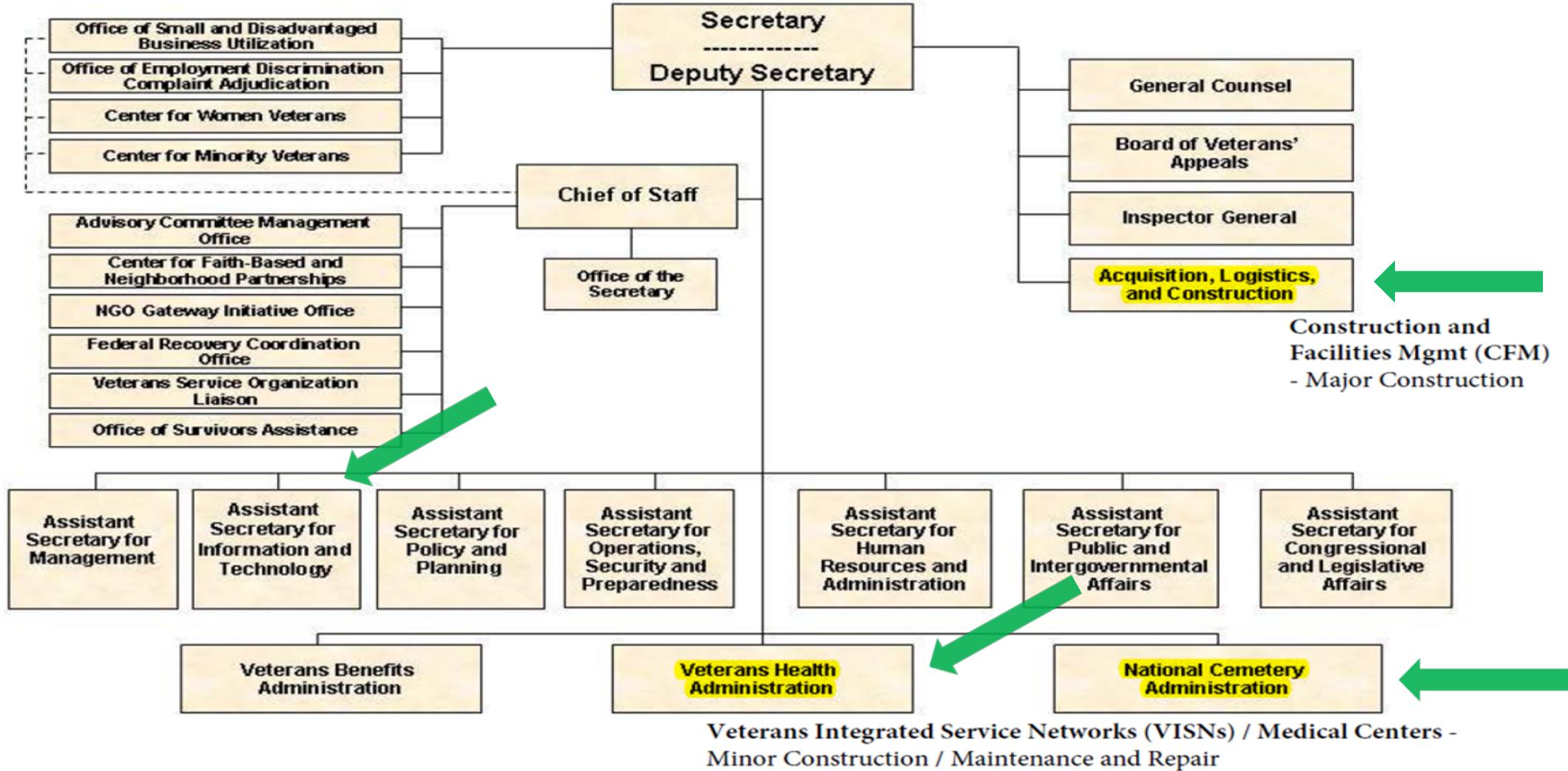
# VETERANS AFFAIRS



- VA Overview
- Construction Facilities & Management (CFM) Overview
- VHA/VISN Overview
  - Current Projects
  - Pending Projects
- National Cemetery Administration (NCA) Overview



# VETERANS AFFAIRS OVERVIEW





# VETERANS AFFAIRS – CFM PROJECTS



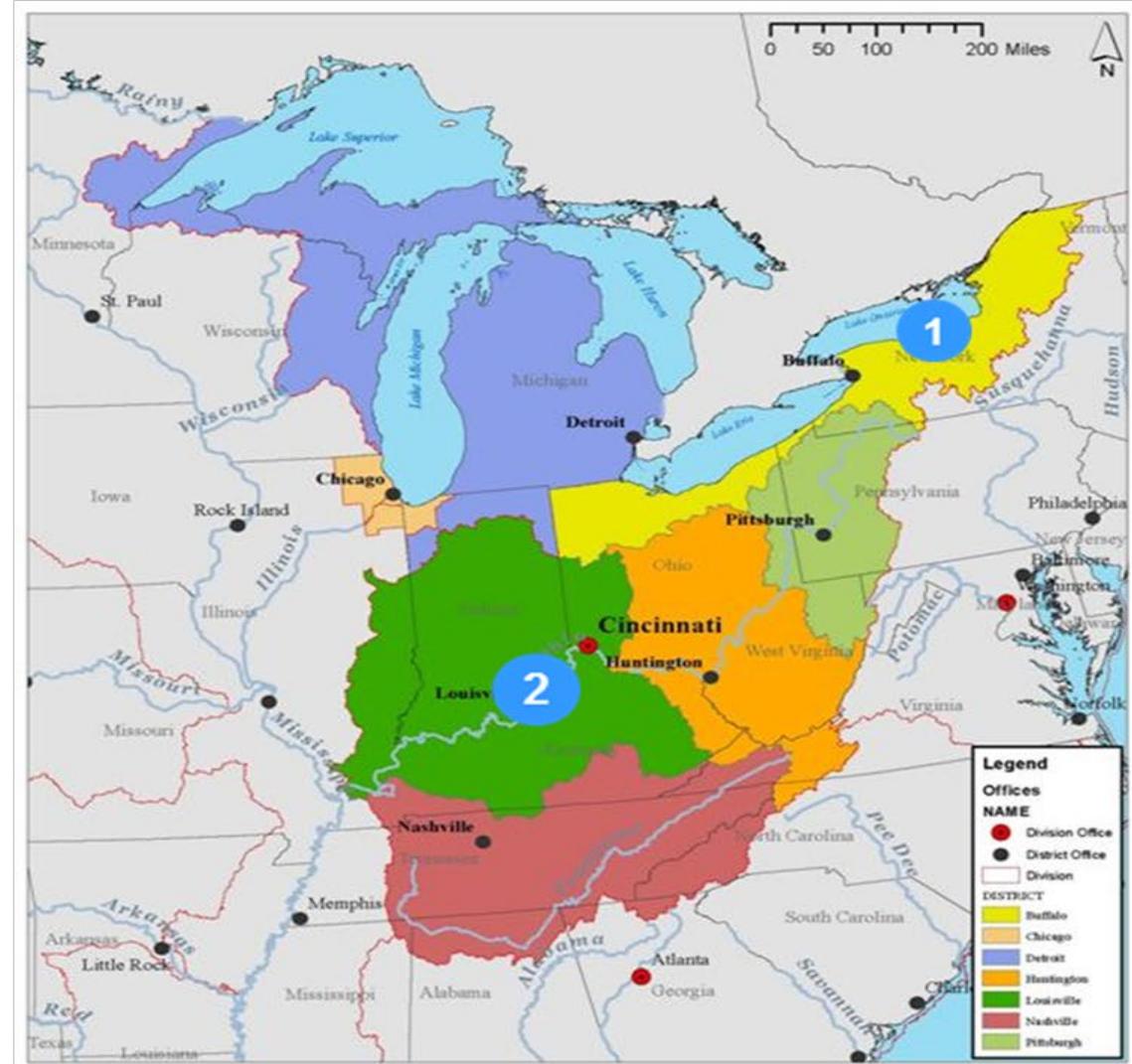
## 1 Canandaigua VAMC

**Phase 1** – Constructs Outpatient Clinic (OPC) and Chiller Plant /Emergency Generator Bldg. Renovates existing Bldgs. 1 & 2 into OPC. Partial Demolition of Bldg. 2 and site utility upgrades.

**Phase 2** – Demolition of Bldgs. 33 & 34 to support construction of 120-bed Community Living Center (CLC) complex, Community Center Bldg and Bldg. 9 loading dock. Renovates Bldgs. 9 (Domiciliary), 3, 4, and 5 to support Phase 1 OPC.

## 2 Louisville VAMC

New VAMC campus includes the medical center, regional laundry, a central utility plant and new structured parking for approximately 2,600 vehicles. Total project scope is 973,148 SF.

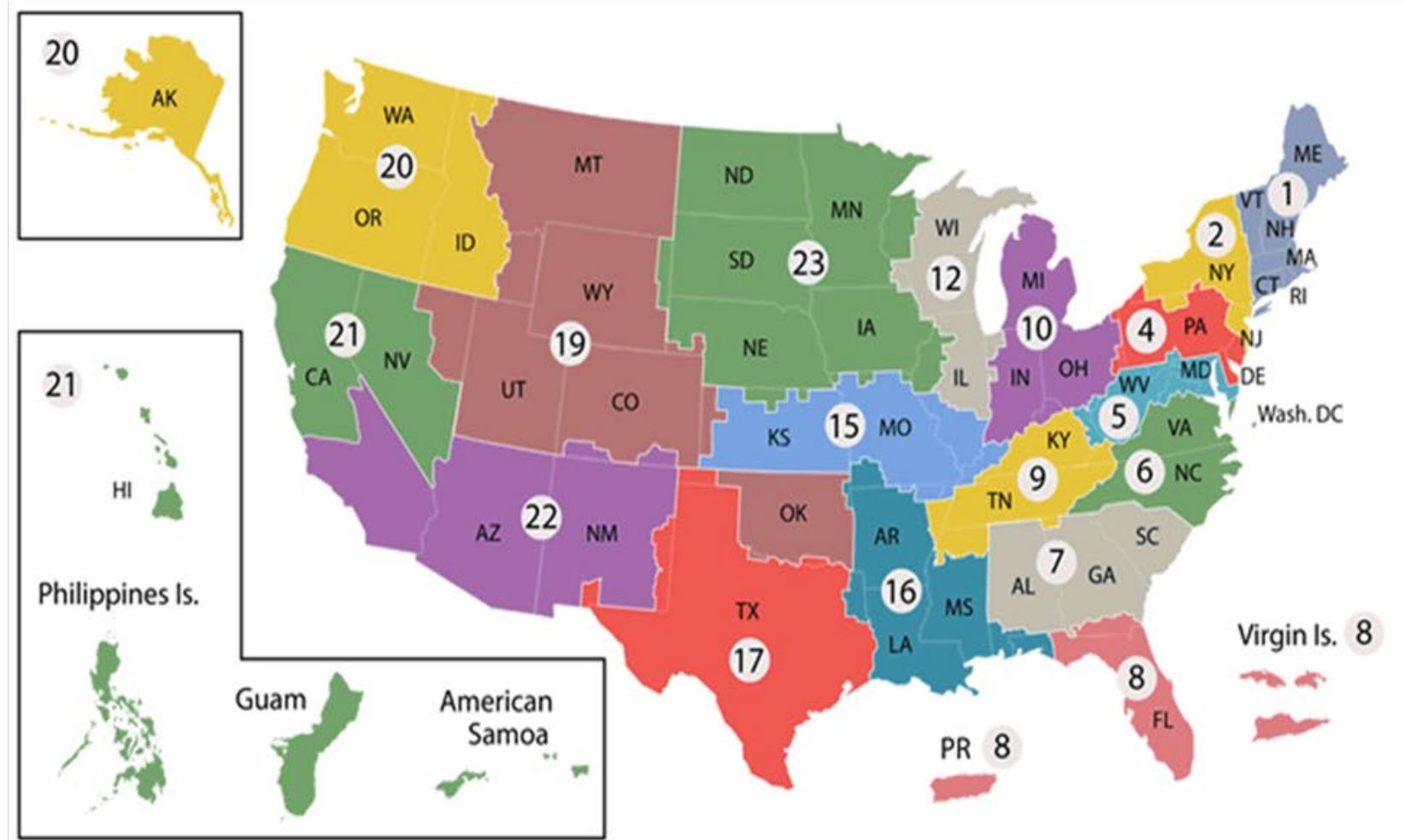




# VHA/VISN OVERVIEW



- Divided into 18 Veterans Integrated Service Networks (VISNs)
- LRD AOR overlaps with 7 VISNs and contains 32 VA Medical Centers (VAMC)
- VISNs/VAMCs receive funds for minor construction (<\$10M) and maintenance and repair projects





# VISN – CURRENT WORK



Project Name			USACE PM	Notes
Hines VA Hospital-Replace Water Mains, Phase 3 - Part B, and Reconfigure Missouri Parking Lot	\$5M+	LRL	Stacey Purifoy-Jones (502) 315-6846 stacey.purifoy-jones@usace.army.mil	
Hines VA Hospital- Information Technology Center (HITC) Power Updates - Energy Survey - Generator Parallel Controls, Storage Tank, Fuel System Replacement	\$1M-2M	LRL	Marcus Doddridge (502) 315-7082 marcus.a.doddridge@usace.army.mil	
Hines VA Hospital-Replace Air Handling Units in Building 217	\$2M-3M	LRL	Stacey Purifoy-Jones (502) 315-6846 stacey.purifoy-jones@usace.army.mil	
Edward Hines VA Hospital- Facade Project		HNC	Josh Ulrich (256) 895-1228 Joshua.J.Ulrich@usace.army.mil	Construction Support.
Hines VA Hospital- Relocate CRAC Units - Building Fence and Gate Replacement - Parking Lot and Sidewalks	\$1M-2M	LRL	Marcus Doddridge (502) 315-7082 marcus.a.doddridge@usace.army.mil	
Milwaukee VA Medical Center-Replace (3) Boilers Building 112	<\$100K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	USACE Services: QA/QC inspections, and design and construction reviews of 18 submittals.
Milwaukee VA Medical Center-Renovate 8A for Outpatient Clinics	<\$100K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	USACE Services: Expertise and Construction QA/QC inspections of utilities systems for 8 hours for 10 site visits total over 12 months.
Milwaukee VA Medical Center-Scoping Services to Demolish building 45	<\$100K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	USACE Services: Scope Development



# VISN – CURRENT WORK (CONT.)



Project Name			USACE PM	Notes
Upgrade Plumbing for Legionella Prevention	<\$100K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	USACE Services: Design and BCOE reviews.
Repair Bldg 6 Exterior Wall	<\$100K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	USACE Services: Design and BCOE reviews.
Upgrade Electrical Area 1	<\$100K	LRC	<a href="tel:3128465552">Kirston Buczak (312) 846-5552</a> <a href="mailto:Kirston.A.Buczak@usace.army.mil">Kirston.A.Buczak@usace.army.mil</a>	USACE Services: Design and BCOE reviews.
Demolition of Bld 45 P&S	\$100K-500K	LRC	<a href="tel:3128465552">Kirston Buczak (312) 846-5552</a> <a href="mailto:Kirston.A.Buczak@usace.army.mil">Kirston.A.Buczak@usace.army.mil</a>	USACA Services: Scope (P&S) Development
Hines Information Technology Center (HITC) Master Plan	\$500K-1M	LRL	Marcus Doddridge (502) 315-7082 marcus.a.doddridge@usace.army.mil	
VHI Triage Effort	<\$100K	LRL	<a href="tel:5023157082">Marcus Doddridge (502) 315-7082</a> <a href="mailto:marcus.a.doddridge@usace.army.mil">marcus.a.doddridge@usace.army.mil</a>	
Hines ITC DDC Design	\$100K-500K	LRL	<a href="tel:5023157082">Marcus Doddridge (502) 315-7082</a> <a href="mailto:marcus.a.doddridge@usace.army.mil">marcus.a.doddridge@usace.army.mil</a>	
Hines ITC McCook Feeder Design	\$100K-500K	LRL	<a href="tel:5023157082">Marcus Doddridge (502) 315-7082</a> <a href="mailto:marcus.a.doddridge@usace.army.mil">marcus.a.doddridge@usace.army.mil</a>	



# VISN – PENDING WORK



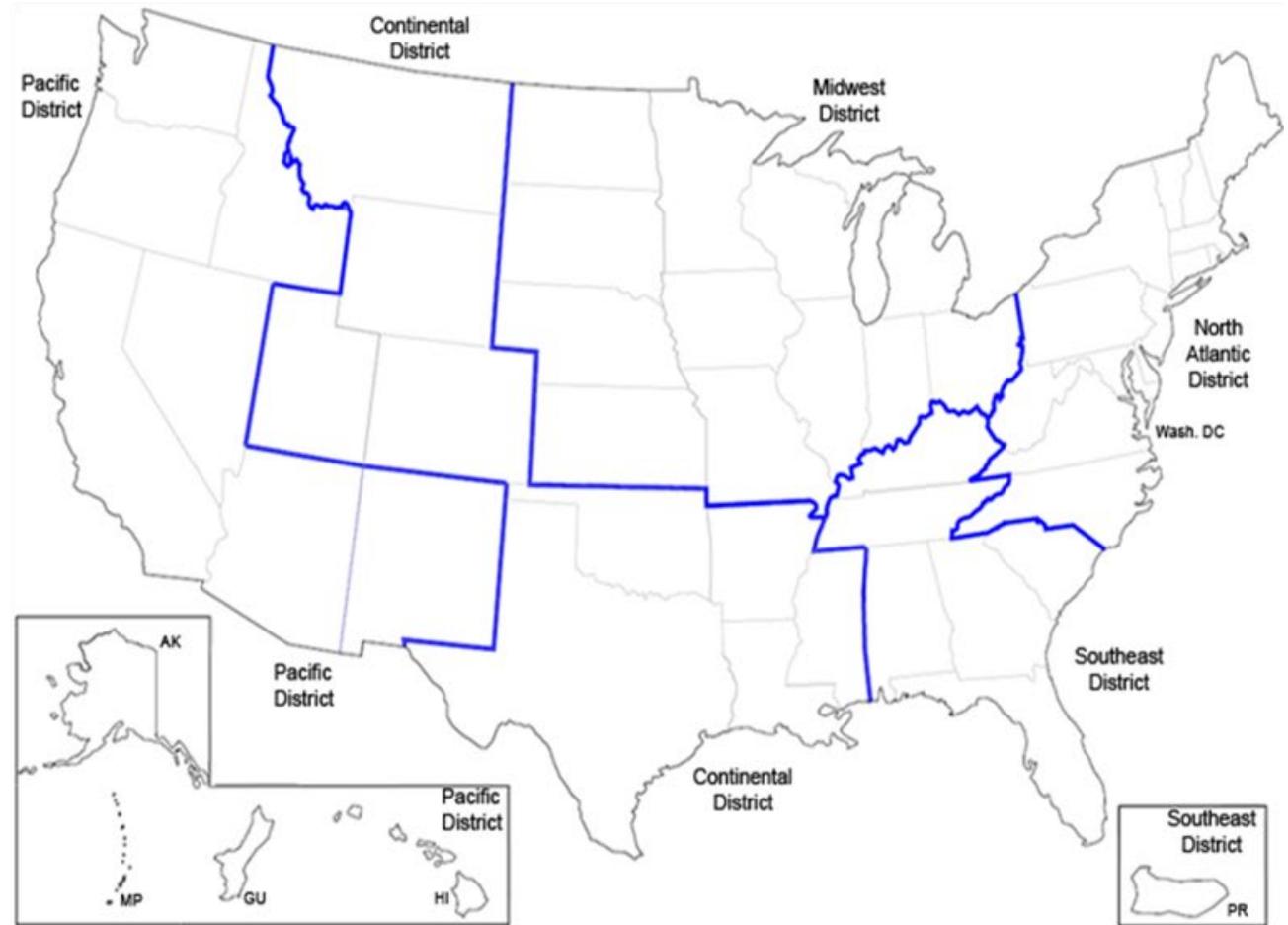
Project Name			USACE PM	Notes
Milw VA Hospital-Correct Mental Health Domiciliary Safety and FCA Deficiencies	~\$20-30K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	Expect Design Award to AE in 2nd QTR FY19.
Milw VA Hospital-Renovate 7AN for GI/GU and Procedure Clinic	~\$20-30K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	Expect Design Award to AE in 3rd QTR FY19. May need USACE review from 4th QTR FY19 in FY20.
Milw VA Hospital-Renovate and Expand Dialysis Clinic	~\$20-30K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	Expect Design Award to AE in 3rd QTR FY19. May need USACE review from 4th QTR FY19 in FY20.
Milw VA Hospital-Construct Women's Clinic	~\$20-30K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	Expect Design Award to AE in 4th QTR FY19. Will need USACE review in FY20.
Milw VA Hospital-Construct Radiation Suite	~\$20-30K	LRC	Kirston Buczak (312) 846-5552 Kirston.A.Buczak@usace.army.mil	Will need construction inspection assistance. VA developing procurement documents.



# NATIONAL CEMETERY OVERVIEW



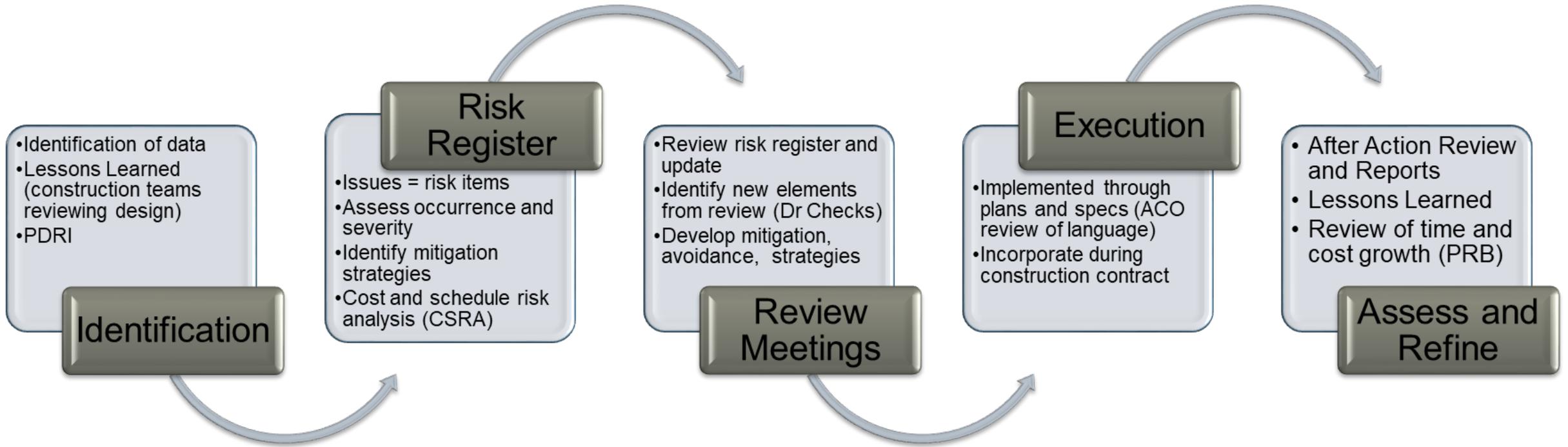
- Divided into 6 Memorial Service Networks (MSNs)
- LRD AOR overlaps with 3 MSNs and contains over 30 National Cemeteries
- MSNs receive funds for minor construction (<\$10M) and maintenance and repair projects.
- Work flow through HQ USACE National Program Manager – Andrew Frank



- 8 Kentucky Cemetery Tree Surveys and Management Plans
- Indianapolis Columbarium



# RISK MANAGEMENT





# RISK – EARLY IDENTIFICATION OF RISK & MANAGEMENT



## MITIGATION – PDRI/CSRA; Establish Management Guidelines for Contingency:

### Project Definition Rating Index (PDRI)

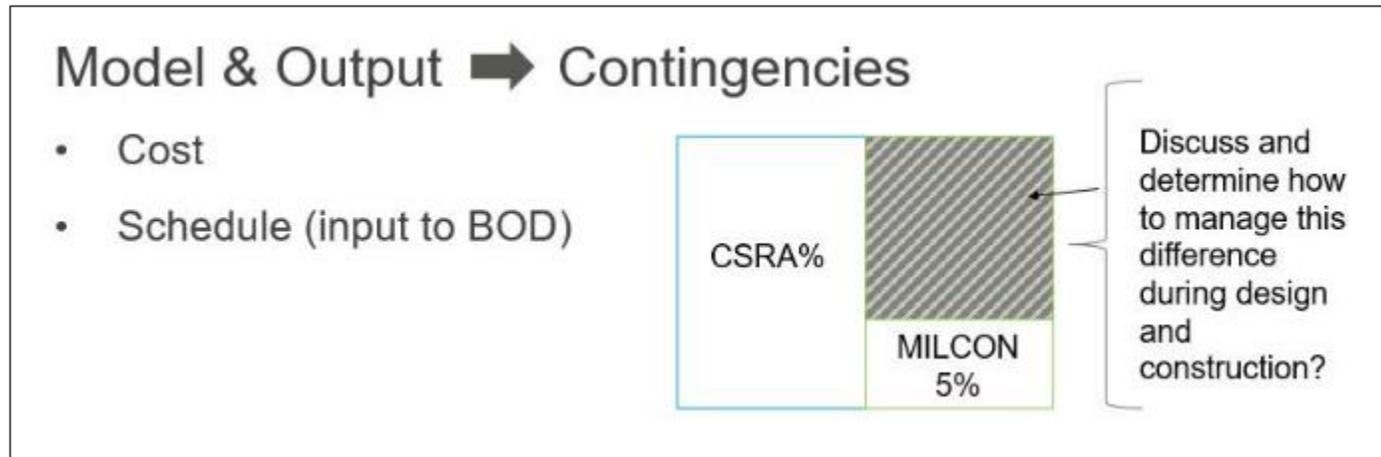
- Leverage the PDRI score sheet to generate the risk register (guide the discussion)

Set expectations and management approach for potential high level of contingency from the CSRA results/model output

- Balance scope requirements with cost contingency
- Design to target
- Management during design
- Identification of options
- Schedule contingency

### Development of two versions of CSRA model

- Pre-award
  - assesses all risks
- At time of Award
  - bid and escalation risks are realized, therefore removed from the model
  - have project execution risk for contingency request at award





# RISK – IMPROPER UTILIZATION OF THE RISK REGISTER



## MITIGATION – Commitment By All Stakeholders/Joint Risk Register Development:

Utilized during design reviews

Reviewed after every design meeting

Comments input into DrChecks with Item # designation/reference

Mitigation language in design documents, engagement with ACO for project to review

Identification of permit risks

Identification of NEPA exposure



# RISK – FAILURE TO IDENTIFY DESIGN ERRORS



## MITIGATION – Coordination and Thorough Pre-Design Review Meetings:

Design Manager conducts with the reviewers – open discussion of potential risks

Identify approved deviations/waivers

Delegated designs

- Identify during review
- Verify appropriateness

Means and methods

- Identify during review and discuss risk of incorporation (check plans and specs)
- Verify appropriateness

Set expectation for BIM clash detection review



# RISK – AMBIGUITY, UNKNOWN APPROVAL AUTHORITY



## MITIGATION – Development of Matrices:

Examination of NEPA document and early coordination of utility requirements to develop and maintain Permit Matrix

Design development and coordination to identify unique Authorities Having Jurisdiction (AHJ) for project decision and inspection/approval during construction

- Fire Protection Authority Having Jurisdiction (AHJ)
- Authority for system design requirements and security elements
- AHJ for mandatory safety inspection and occupancy approval

Communication matrix to delineate responsibilities for design, procurement, installation and commissioning of infrastructure (e.g. pieces of communication/low voltage systems).

Identification of where you may incorporate / reference the matrices into the contract documents



# RISK – LACK OF COMPETITION DUE TO PERCEIVED RISK



## MITIGATION – Pre-proposal Meetings/Industry Days:

Provide a forum to allow forming of joint ventures / team / partnerships

Include a Site Visit to identify important and complex features of work

Identify Delegated Designs – ensure bidders understand their responsibilities

Address Submittal Register and unique submittal requirements

Identify Brand Name Specifications / Sole Source

Articulate expectation of coordination of complete systems / features across all disciplines (i.e. BIM expectations)

Occurs before procurement integrity rules impose limitations on information disseminated



# POINTS OF CONTACT



- **CONTRACTING – Louisville District**

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April Judd, Military Branch, (502) 315-7403, [April.C.Judd@usace.army.mil](mailto:April.C.Judd@usace.army.mil)

Emily Moore, Reserve Branch, (502) 315-6181, [Emily.A.Moore@usace.army.mil](mailto:Emily.A.Moore@usace.army.mil)

Michael Hutchens, VA Division, (502) 315-6180, [Michael.D.Hutchens@usace.army.mil](mailto:Michael.D.Hutchens@usace.army.mil)

- **SMALL BUSINESS – Louisville District**

Crystal M. Harbin, Deputy for SB, (502) 315-6111, [Crystal.M.Harbin@usace.army.mil](mailto:Crystal.M.Harbin@usace.army.mil)



# Questions/Comments?

