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SAME



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Chief of Engineering
Robins AFB, Georgia
17 Jun 20



Overview



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- **Robins Energy Program**
- **WBRxR Authority Update**
- **UMMC MILCON**
 - **New Truck Gate**
 - **FY20 UMMC Top 3**
 - **FY21 MILCON Top 5**
- **Execution**
- **Funding**
 - **Historical AFCEC CTO Funding**
 - **Historical CEG Construction Program**
- **Questions**



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Energy

Duke Thigpen
Robins AFB Energy Manager
78th Civil Engineering Div



Solar Array



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- **Georgia Power Company Partnership with Robins AFB for 128MW solar array north of base**
 - **One of the largest solar energy facilities in the State of Georgia**
 - **Substantial contribution to Air Force Renewable Energy Goal**
 - **Electrical Upgrades improves Robins and Local Area Resiliency**



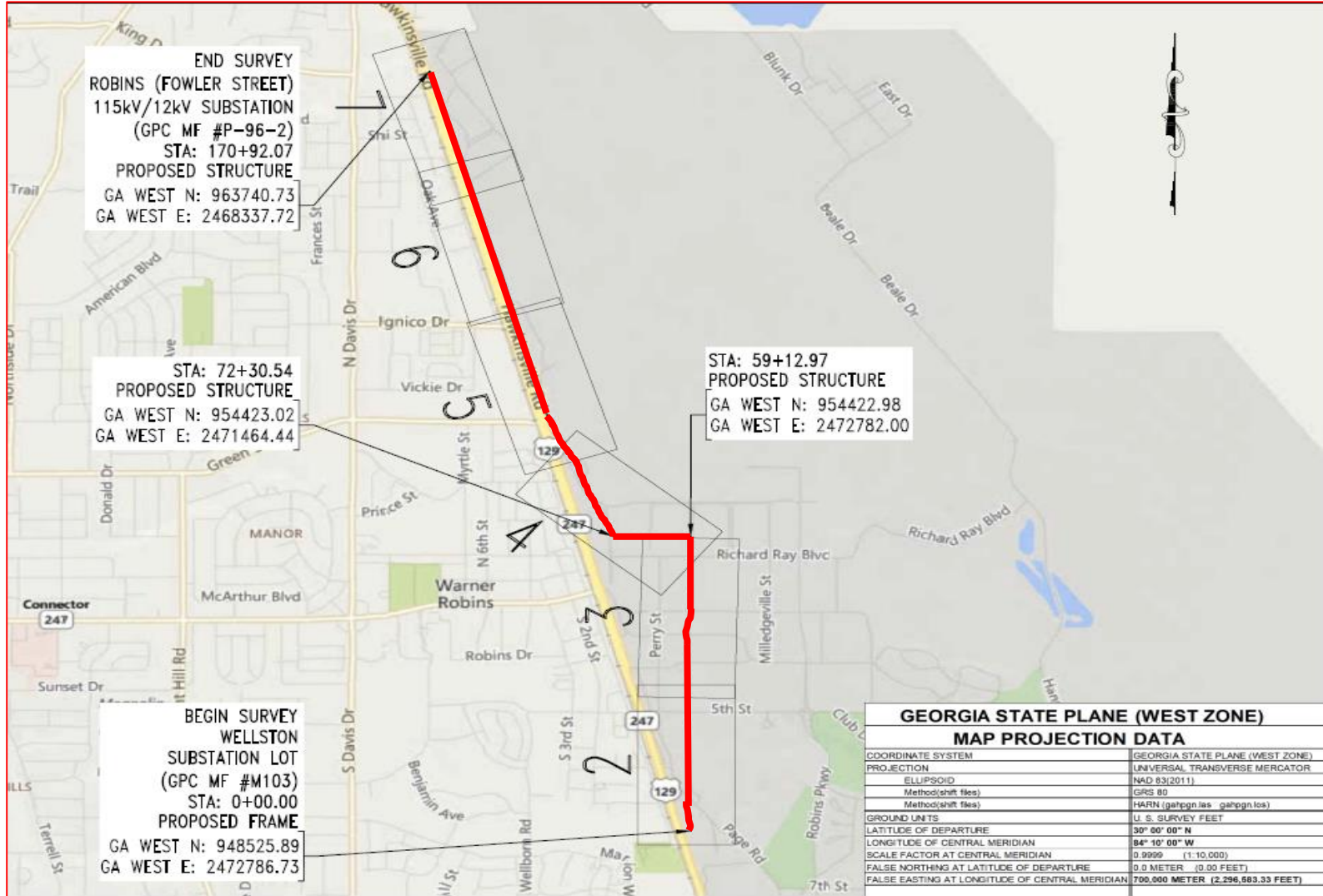
- **Provides Robins with multiple electrical transmission pathways**
- **Ensures backup power capability to all base facilities in the event of a grid outage**



Solar Array 115kV Transmission Line



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Energy Projects



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■ In Construction:

- **ESPC Group 1: \$12.1M**
- **UESC New Compressed Air Plant: \$29M**
- **UESC Lighting: \$1.9M**
- **TOTAL: \$43M**

■ Nearing Construction:

- **ESPC Group 2: \$20.8M**
- **ERCIP Upgrades PAMPER Facility: \$4.5M**
- **TOTAL: \$25.3M**

■ ALC UESC Initiatives:

- **In various stages of evaluation and design: approximately \$425M**

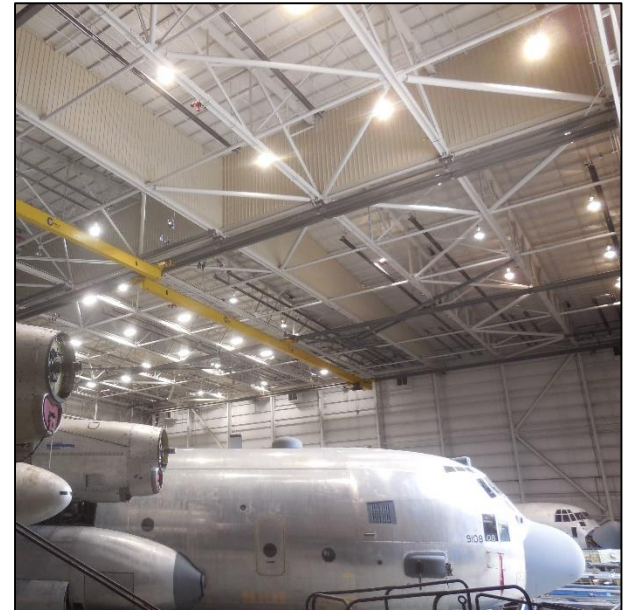


Energy Savings Performance Contract (ESPC)



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- **Group 1: 18 month construction phase began Nov 19**
 - **Chiller Plant Upgrades improving HVAC for 17 bldgs.**
 - **HVAC Controls Upgrades improving HVAC for 5 bldgs**
 - **Interior Lighting Upgrades for 21 bldgs.**
 - **Exterior Lighting Upgrades at 23 bldgs.**





Energy Savings Performance Contract (ESPC)



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- **Group 2: 18 month construction phase begins Jul 20**
 - **HVAC Controls Upgrades improving HVAC for 8 bldgs.**
 - **Lighting Upgrades for approximately 300 bldgs.**
 - **Generator replacement at 3 bldgs.**





Utility Energy Service Contract (UESC)

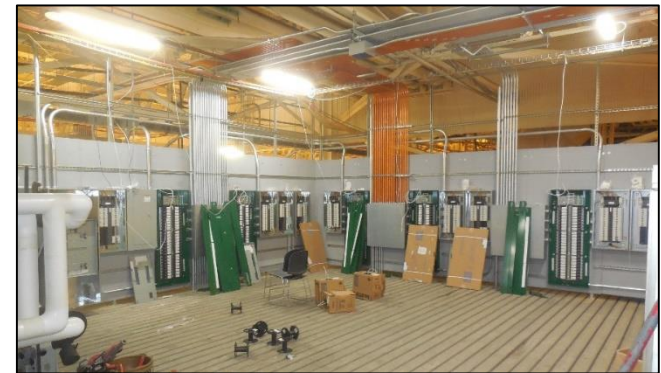


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- **New Compressed Air Plant**
 - Feeds 45 bldgs
 - Nearing initial startup phase
 - Completion Aug 20



- **Lighting: Interior lighting upgrade**
 - Under construction
 - Completion Aug 20





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WBRxR Authority



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Whole Building Repair by Replacement

Using Funds Available for O&M



**“It’s Always the Hour”
at Team Eglin!**

Mark A. Schlueter
Deputy Base Civil Engineer
Eglin AFB, Florida
25 Sep 18



Purpose



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- Propose amendment that authorizes building a new replacement facility in lieu of repairing/converting an old facility using the same funds authority when it is a better value to the Department
- Age and condition of Air Force facilities
 - 35% > 50 yrs (typical design life)
 - 44% > 40 yrs
 - 56% > 30 yrs
 - 30% bldgs are degraded condition (Yellow)
 - 24% bldgs are failed/failing condition (Red)
- How can the Air Force recapitalize, restore and modernize our installation's infrastructure?

Given the outdated construction and repair rule set, DoD Services cannot effectively recapitalize their real property before it degrades to the point of mission failure



WBRxR Authority



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- **Facility Sustainment, Restoration & Modernization (FSRM)**
 - Unlimited \$ to sustain, repair, convert existing
- **In lieu of repairing an existing facility, replace it by building new**
 - Enable an effective Consolidate & Demo program
 - Use same amount or less funds
 - Reduce aggregated gross square footage by 10-20%
 - Optimize space use
 - Reduce energy consumption, increase energy resilience
 - Reduce life-cycle cost using adaptive design

**Enables installations worldwide to recapitalize
using available O&M funds**



WBRxR Status



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- **BLUF: Air Force withdrew it from the FY21 NDAA**
- **Reasons:**
 - OSD couldn't get past the perspectives that facility replacement is a **construction** activity and not a **repair** activity
 - Building a new facility with O&M moves congressional oversight from one of the Defense congressional committees (MILCON) to another (FSRM) which would not be received well on the Hill
- **Way Forward**
 - One possibility, suggested by OSD, may be to set up something similar to ERCIP where OMB or OSD POMs for a certain amount of MILCON funding each year to be used only for projects that meet the specific program's criteria (e.g. return on investment).



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UMMC & MILCON

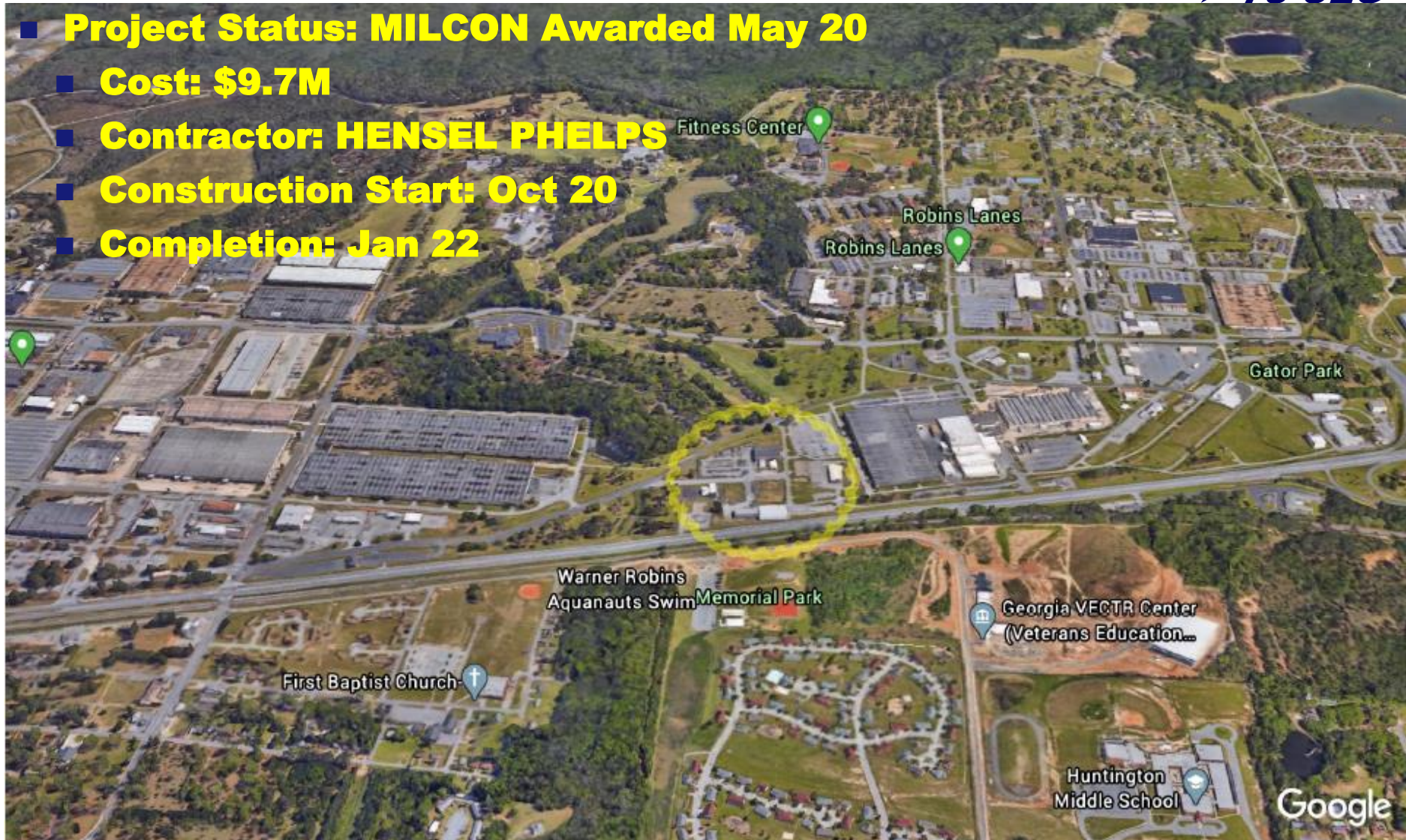


New Truck Gate



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- **Project Status: MILCON Awarded May 20**
- **Cost: \$9.7M**
- **Contractor: HENSEL PHELPS**
- **Construction Start: Oct 20**
- **Completion: Jan 22**

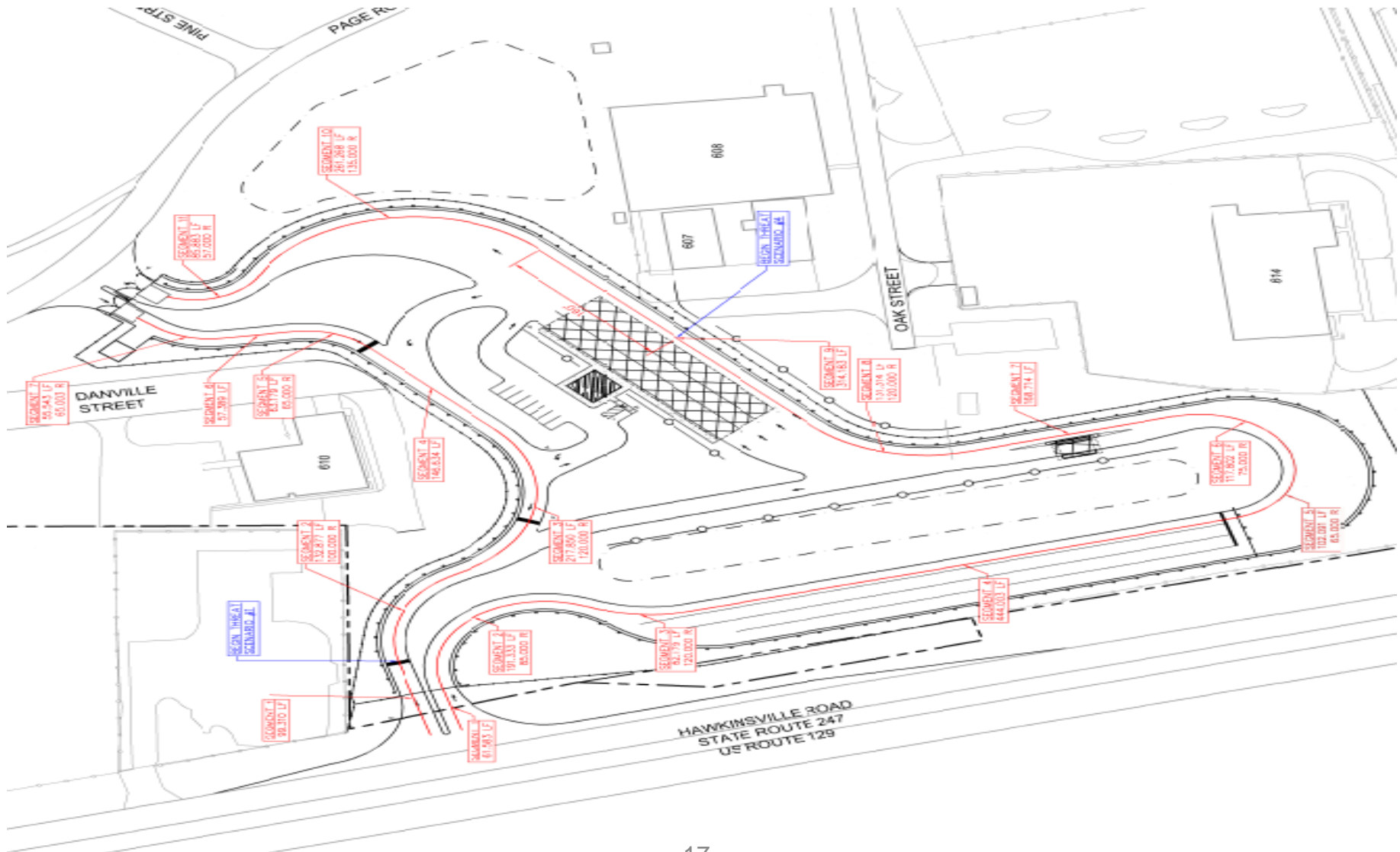




New Truck Gate



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UMMC FY20



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- 1. Satellite Fire Station**
- 2. Physical Fitness Center**
- 3. Refuel Vehicle Maintenance Facility**



MILCON FY21



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- 1. Control Tower And Base Operations Facility**
 - 2. Consolidated PMEL/Gyro Facility**
 - 3. Combat Communications Facility**
 - 4. Component Repair Facility**
 - 5. Depot Quality Control Laboratory**



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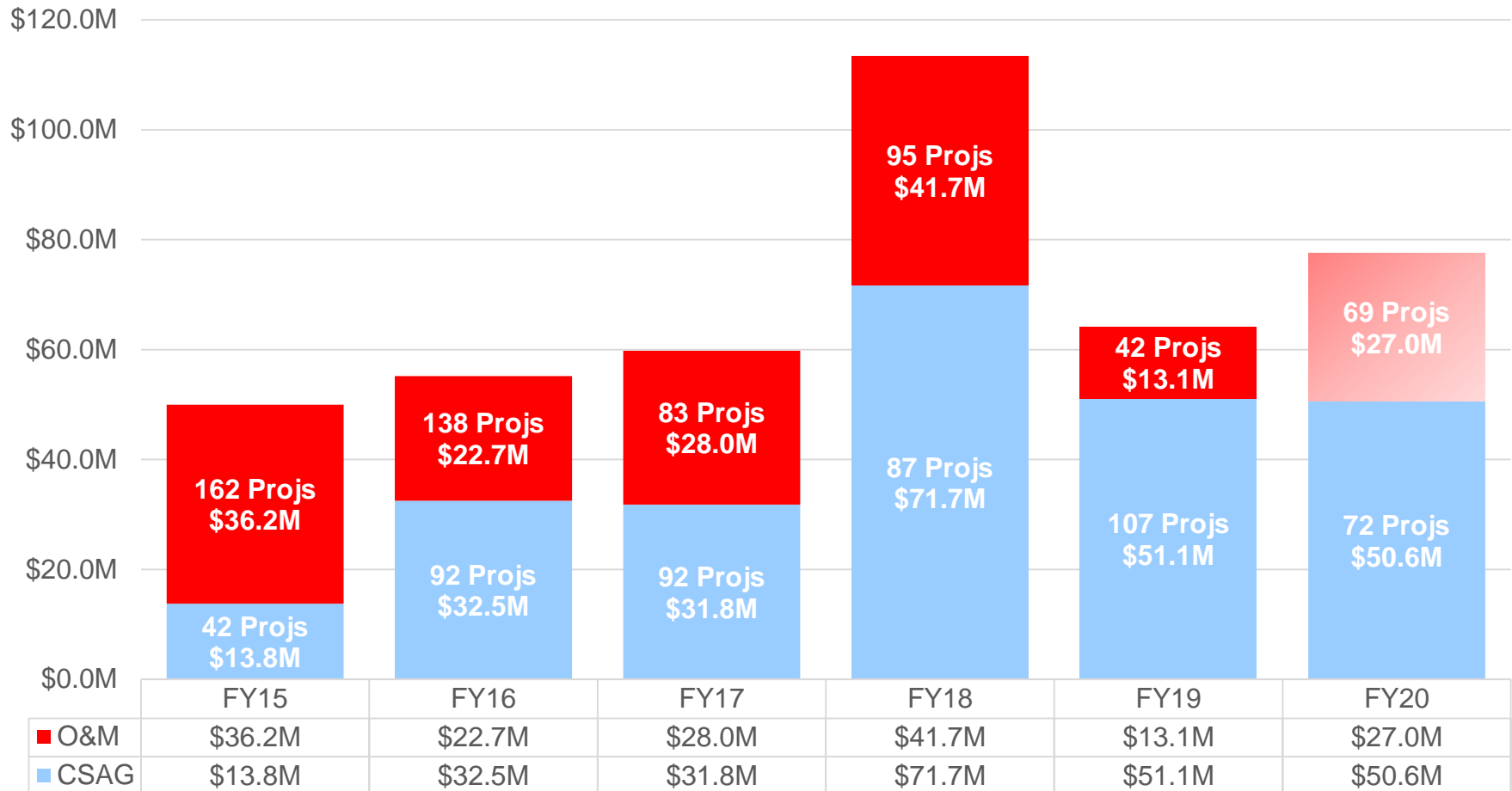
Execution



Construction Program



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Operations and Maintenance (O&M)
Consolidated Sustainment Activity Group (CSAG)

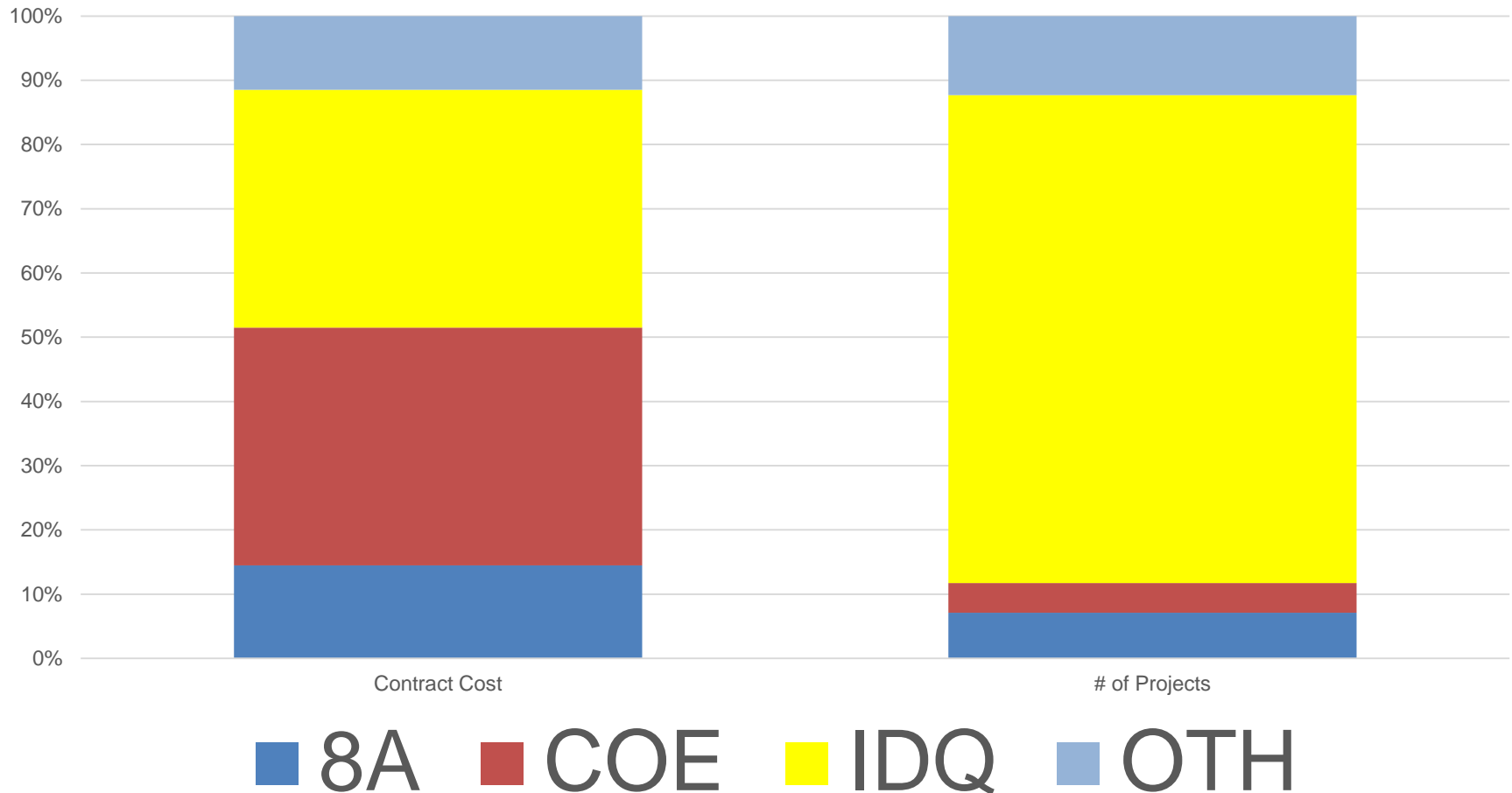


How we get the work done!



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Contract Execution History (5yr Avg)





IDIQ Contracts



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Title	Contract Years	Contract Expire	Contract Limit	Current Obligations	% Remaining
Flooring	5	27-Dec-20	\$4.5M	\$1.2M	73%
AE	5	15-May-21	\$17.5M	\$9.5M	46%
Paint	5	14-Aug-21	\$4.2M	\$2.6M	38%
Paving	5	23-Aug-21	\$40M	\$14.5M	64%
SABER	5	19-Apr-22	\$52M	\$31.9M	39%
Roofing	5	21-Aug-22	\$95M	\$23M	65%
CEMACC	5	5-Sep-22	\$70M	\$58.7M	16%
Mech/Elec (New)	5	23-Apr-24	\$95M	\$19.3M	72%
CEMACC II	5	16-Sep-24	\$95M	\$1.3M	99%
SABER II	5		\$50M		Award: Jul 20
A&E (New)	5		\$30M		RFP: 1 Jun 20



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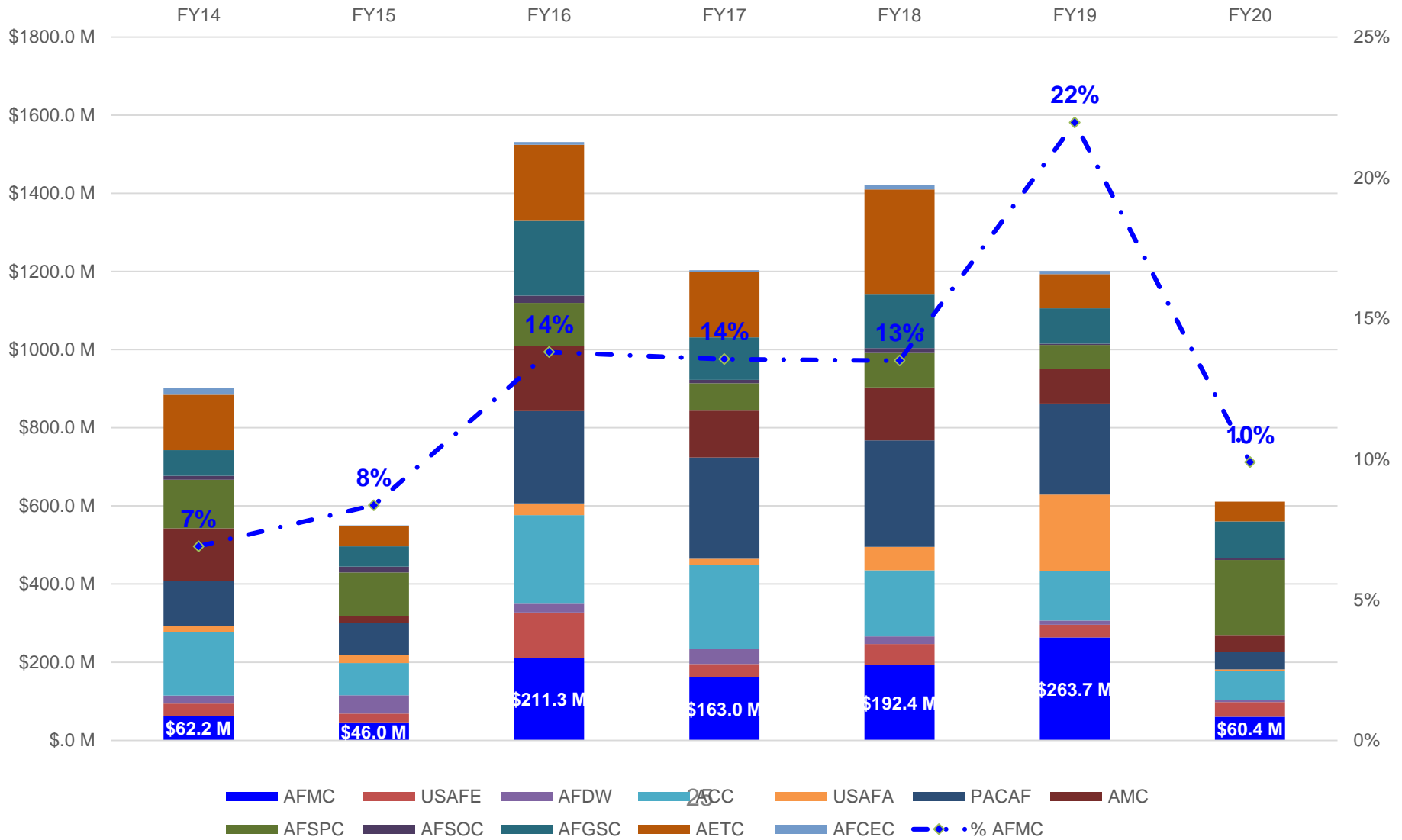
Funding



AFCEC CTO Funding By MAJCOM



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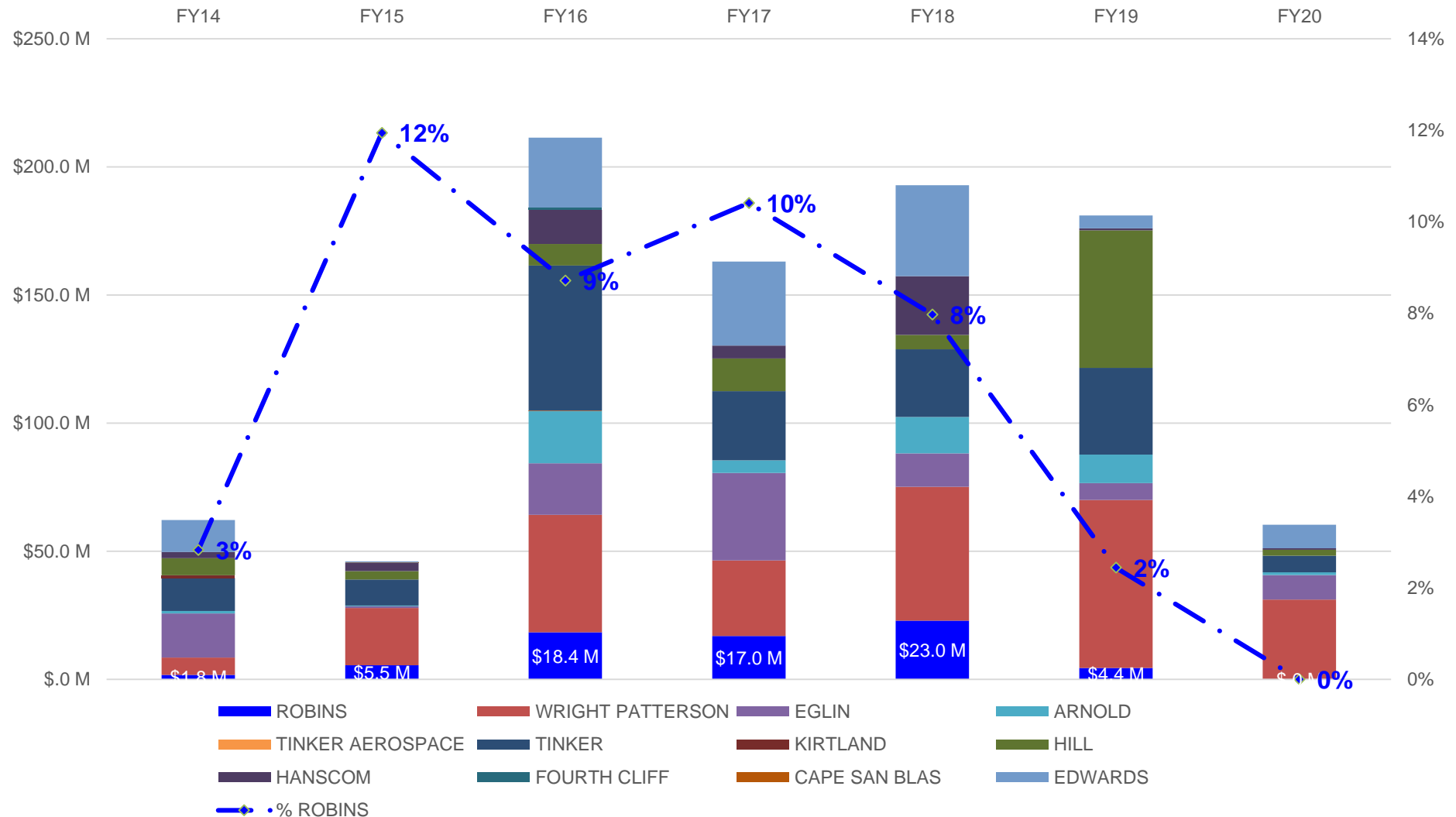




AFCEC CTO Funding By AFMC Base



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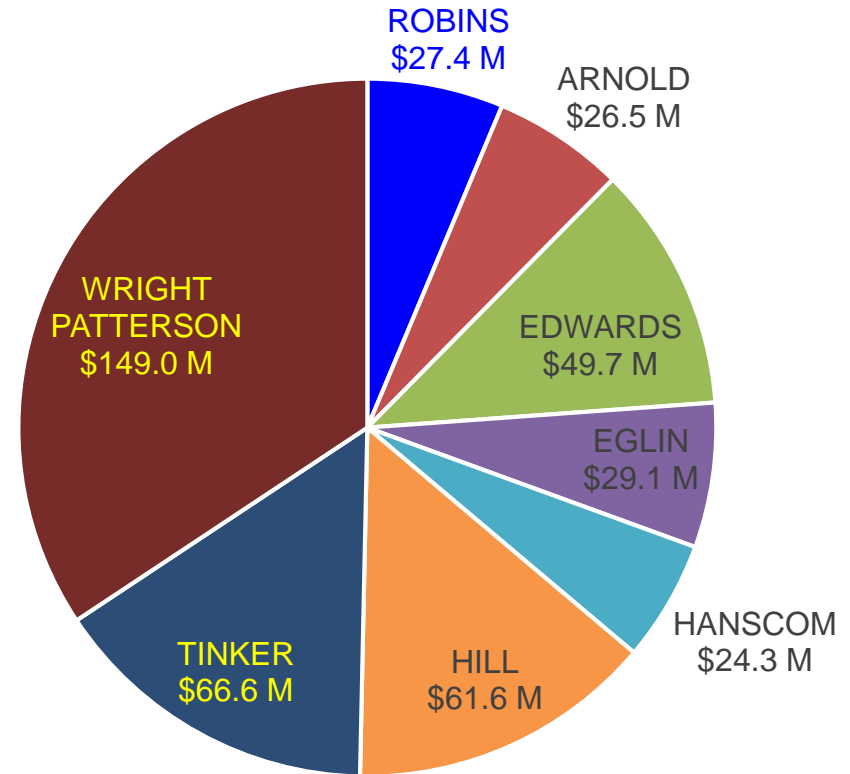
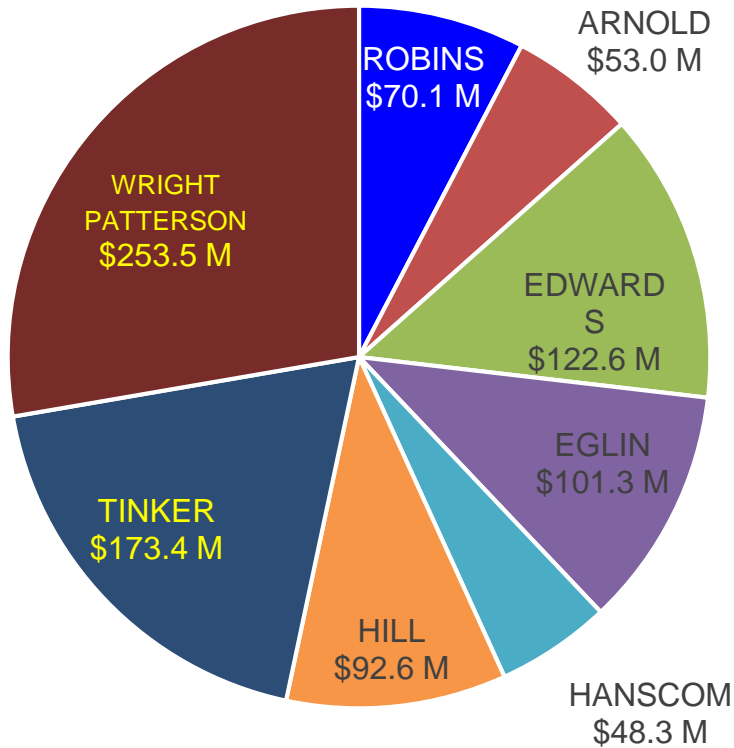


AFCEC CTO Funding By AFMC Base



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FY14-FY20



FY18-FY20



AFCEC CTO Funding FY21 Projection



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MFH Task Order	
Construction	\$105.6M
Design/Plan	\$5.3M
Total	\$110.9M

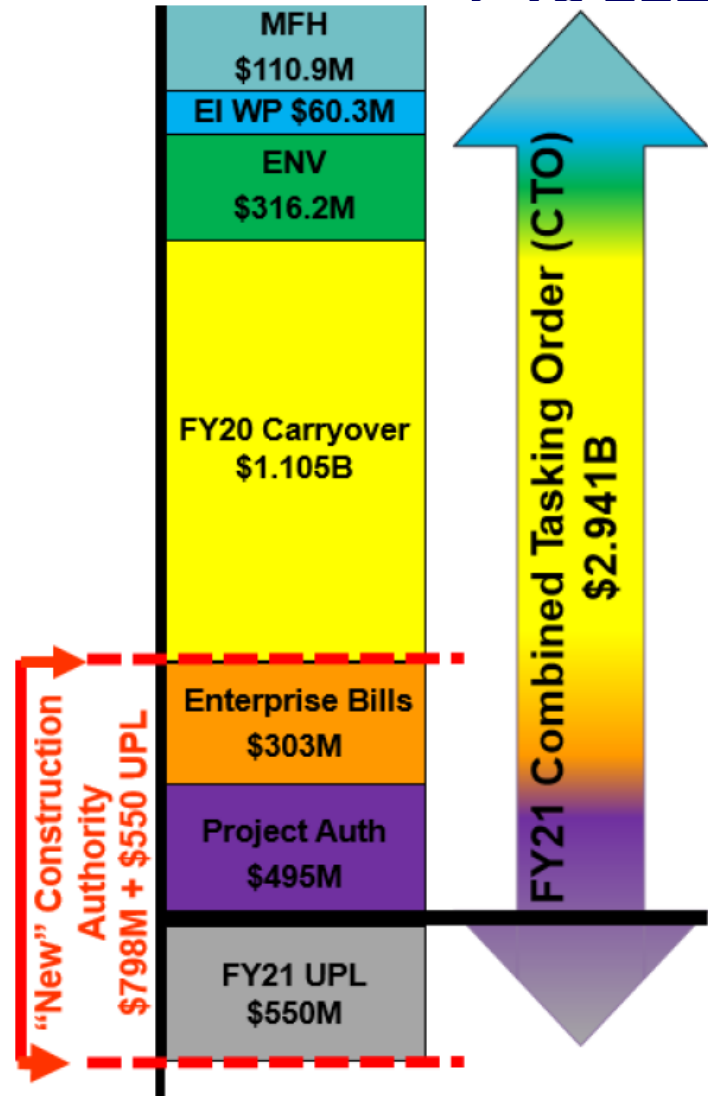
EI WP Task Order	
3080	\$20.3M
3040	\$40M
Total	\$60.3M

ENV Task Order	
Env Cons (53)	\$72M
Env P2 (54)	\$14M
Env Comp (56)	\$167M
Sub Total	\$253M
125%	
Total	\$316.2M

Construction TO	
R&M (76)	\$717M
Sust (78)	\$797M
Demo (93)	\$9M
Sub Total	\$1,523M
125%	
Total	\$1,904M

FY21 UPL	\$550M
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CTO TOTAL \$2,941M





AFCEC CTO Funding FY21 Projection



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Total Program Authority \$1.904B

FY20 Rollover	\$900M
FY20 Cuts*	\$205M

Remaining Authority \$798M

Program	Proposed	4-yr Avg	FY20
AFCEC Enterprise Support	\$75M	\$71M	\$75M
PTO**	\$44M	\$17M	\$17M
Design	\$64M	\$104M	\$134M
TTP (RED HORSE & CTS)	\$19M	\$16M	\$18M
NRG/Savings	\$56M	\$56M	\$42M
Demo	\$39M	\$32M	\$27M
Lajes Real Property Payback	\$6M	\$7.8M	\$8M
Total	\$303M	\$305M	\$321M

Project Authority \$495M \$493M \$477M

FY20
Carryover
\$1.105B

Enterprise
Bills
\$303M

Project
Authority
\$495M



Discussion/Questions



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