

US Army Corps
of Engineers®
Far East District

Building Strong in Korea!

***2018
Year in Review***

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Year in Review 2018

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Rendering of ADR Warehouse, Kunsan Air Base



**US Army Corps
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Far East District**

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From the Far East District Commander To Our Valued Stakeholders:



**Teresa A. Schlosser
Colonel, U.S. Army
Commanding**

This annual Year-in-Review is provided to you, our customers and stakeholders, to highlight the many significant projects that have either begun, continue or were completed during 2018.

What an incredibly productive year this has been for the District! As of early this year, about 94 percent of the Yongsan Relocation Plan and 90 percent of the Land Partnership Plan are complete, all part of the \$10.7 billion dollar transformation and relocation program in the Republic of Korea.

For Fiscal Year 2018 alone, our Contracting Division awarded a total of 472 actions totaling \$137.6 million. We were able to award all contracting actions before the Sept. 30 deadline, with the last action awarded on Sept. 29 at 4:30PM local time. Throughout the peninsula our team of dedicated professionals has continued to Build Strong and meet the construction and engineering needs of the United States Forces Korea and the Alliance.

A look at our active project list displays the scope of the work the dis-

trict is responsible for: from the massive military construction that continues at U.S. Army Garrison Humphreys, to work at Osan and Kunsan Air Force bases, to other projects at a number of U.S. and Republic of Korea bases throughout the peninsula.

In Areas I and II the Seoul Project Office completed several sustainment restoration modernization projects to replace mechanical HVAC equipment in various buildings at Yongsan Garrison. The Seoul Office also completed projects at Detachment J in Koryosan and Detachment L at Yawolsan.

In Area III, many projects at U.S. Army Garrison Humphreys have been completed in support of the Yongsan Relocation and Land Partnership Plans. An important ribbon cutting ceremony took place on June 29 as the United States Forces Korea opened their new headquarters building. This was in addition to the commissary ribbon cutting earlier in the year in February and the 2nd Infantry Division headquarters ribbon cutting ceremony on Nov. 20.

At Osan Air Base, construction continues on the hospital addition project as well as the main runway repair, fuel system maintenance dock hangar, munitions alpha relocation, and the air freight terminal. Also at Osan Air Base construction was completed on the 607th Air Support Operations Group and Special Operations Command Korea project and the new Morin gate entry control facility. At Kunsan Air Base, construction was completed on a munitions inspection facility in Jan. 2018 and new commercial vehicle entry control facilities in Dec. 2018. The District is also in the process of constructing third generation hardened aircraft shelters, flow-thru aircraft shelters, an airplane refueling system, two 10,000-gallon fuel storage facilities, and a fuel pump house. These projects will replace outdated aircraft hangars and

provide adequate aircraft turnaround times to support mission requirements.

In Area IV, the southernmost section of the peninsula, construction continues on two of four planned Army family housing towers. These towers will provide 90 apartments for company grade officers, senior non-commissioned officers and their families. The first tower was turned over to the Garrison on Feb. 13 and the Garrison intends to start moving families into the Tower in late March 2019. Construction is still ongoing on the second tower.

The Far East District continues to support annual joint and combined forces exercises on the Korean Peninsula. We also look forward to enhancing our coordination with MND-DIA, to provide ready and capable field force engineering forces enabling Combined Forces Command and U.S. Forces Korea to complete their missions when called.

Finally, we can't review 2018 without talking about our successful move from our old headquarters in Seoul to our new state-of-the-art facility at Camp Humphreys. I would like to personally thank all of you for your positive attitudes despite the challenges and obstacles we had along the way. It truly speaks to the commitment of our workforce. Our new world-class facility has provided a tremendous working environment for the District and is just the latest example of the many collaborative efforts between our ROK partners and the Far East District in creating innovative facilities here at US Army Garrison Humphreys. As we look ahead to 2019 and beyond our goal remains - delivering quality facilities for U.S. military personnel, DoD civilians, their families and the Korean personnel across the peninsula.

Korea Relocation Program

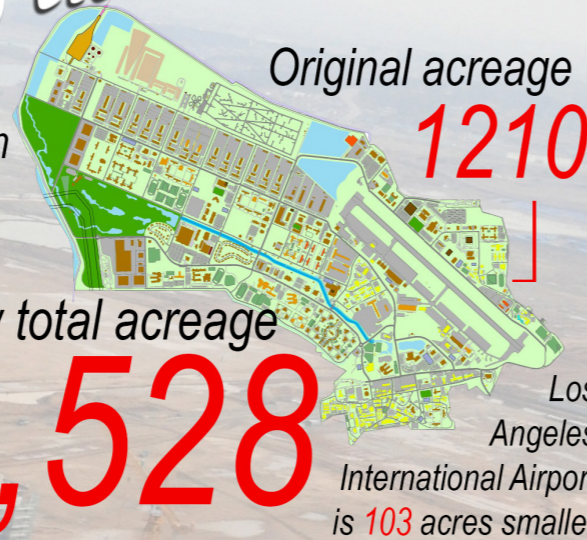
U.S. Army Garrison Humphreys



88

Percentage of completion for the entire program

By the Numbers



655

buildings done, under construction or planned.

The number of buildings being demolished is

339

\$10.7

Billion total price tag

17.6

More than 40 miles of water piping has been installed and tested in the new land. Another 40 miles of new roads will be built. Total miles of cabling installed is

988



million cubic meters of engineered fill already in place, raising the land by about 8 1/2 feet. High enough to keep out water from a 100 year flood.

Enough fill is in place to fill the old Yankees baseball stadium about 5 times over

Active Project List

Location	Program	Project Name	Phase	Design	Construction
Alamo, Yawolsan	2017	Upgrade Det L Secure Room HVAC/DDC	Construction		100%
Alamo, Yawolsan	2018	Install Personnel Protection Bunker, Det L	Construction		0%
APO	2018	Repair Upgrade Radiation Monitor System	Construction	100%	88%
Busan	2019	Repair Underwater Voids in Concrete Block Wall, B-2770	Design		
Busan	2021	Maritime Operations Center	Design	15%	
Busan	2023	Fuel Station Facility, BSF	Design		
Camp Mujuk	2020	Upgrade Sewage Treatment Plant	Design	90%	
Camp Mujuk	2023	Relocate Communications Center	Design	0%	
Camp Mujuk	2023	Replace Switching Station and Electrical Distribution	Design		
Camp Mujuk	2017	Camp Mujuk Life Support Area (LSA) Barracks #2	Construction	100%	59%
Camp Mujuk	2017	Marine Air Ground Task Force Operations Center	Construction	100%	20%
Camp Mujuk	2018	Camp Mujuk Life Support Area (LSA) Barracks #3	Construction	100%	1%
Camp Carroll FOS	2016	THAAD Deployment	Design		
Camp Carroll FOS	2018	Upgrade Electrical Power System, Club House	Construction		0%
Camp Carroll FOS	2019	Install Commercial Power	Design	90%	
Camp Carroll FOS	2021	Site Development	Design		
Carroll	2005	H-805 Relocation from Camp Walker to Carroll	Construction	100%	79%
Carroll	2019	089965 Construct Bldg 832 Replacement Warehouse	Design	0%	
Carroll	2019	Convert B-121 (ROK, KATUSA PX) to Post Office	Design		
Carroll	2019	Install New Access Control Point (ACP)	Design		
Carroll	2019	Renovate Bldg 256 (2-1 ADA, Barracks)	Design		
Carroll	2019	Repair Deteriorated Barracks, B-991	Design		
Carroll	2017	Correct Fire Deficiencies, Carroll	Construction	100%	0%
Carroll	2017	Multiple Projects (607, 818, 821) for AFS Bn	Construction	100%	0%
Carroll	2017	Replacement of Environmental Control Sys B-684	Construction	100%	0%
Carroll	2018	Various Projects for AFSBn-NEA	Construction		26%
Carroll	2019	Upgrade Electrical Distribution, Ph 2	Design	95%	
Carroll	2020	Replace APS-4 Maintenance Shop	Design	95%	
Carroll	2023	MSC-K Blast Media Paint Booth	Design	0%	
Carroll	2017	Sustainment Facilities Upgrade Phase 1 - DLA	Construction	100%	5%
Carroll	2014	Area IV YRP - UEPH, BN & CO OPS HQs	Construction	100%	91%
Chinhae	2017	Repair Humidity Problems at Bldg 606 & 711	Design	100%	
Chinhae	2019	Repair Gas Station and Fuel Storage	Design		
Chinhae	2019	Indoor Training Pool	Design	100%	

Location	Program	Project Name	Phase	Design	Construction
Chinhae	2016	SOF Operation Facility & Barracks	Construction	100%	97%
Chinhae	2017	Upgrade Electrical System, Pier 11	Construction	100%	90%
CP Tango	2019	CAP 091589 Command and Control Facility	Design	30%	
CP Tango	2018	Install Fire Suppression System, Rm#205,B3101 and Rm#X-12,B3014	Design	90%	
CP Tango	2017	Various Projects, B3200, B3101, B3111	Construction		80%
CP Tango	2017	Repair Collective Protection System (CPS)	Construction	100%	18%
CP Tango	2017	Repair Tunnel Zero	Construction	100%	15%
Daegu	2017	Repair/Upgrade Elect Safety Deficiencies	Construction	100%	55%
Daegu Air Base	2018	Repair Permanent Dorm B-905	Design	30%	
Daegu Air Base	2019	Repair ACFT General Purpose SH, Daegu	Design	0%	
Daegu Air Base	2019	Repair HVAC Medical Storage	Design	0%	
Daegu Air Base	2018	Repair Base Engineer Maintenance Shop B-3605	Construction	100%	0%
Daegu Air Base	2019	Repair HQ B-3571	Construction	100%	0%
Daegu Air Base	2022	Large Aircraft Apron	Design	0%	
Daegu Air Base	2023	Upgrade Water Distribution System	Design	0%	
Daegu Air Base	2016	Operation Complex	Construction	100%	70%
George	2019	Paint Interior & Replace Carpets, B#3000/3019, ES	Design		
George	2018	Repair/Upgrade School Facilities	Construction	100%	3%
Henry	2019	Repair Duct System B-1685 (403rd AFSB, Admin Office)	Design		
Henry	2017	Correct Fire Deficiencies, Henry & Walker	Construction	100%	0%
Henry	2017	Upgrade Comm System Bldg 1211	Construction	100%	0%
Henry	2016	Electrical Distribution Upgrade	Construction	100%	95%
Humphreys	2019	CAP 086877 Family Housing New Construction Incr 3 (AFH090)	Design	100%	
Humphreys	2017	CAP 086689 Family Housing New Construction (AFH100)	Construction	100%	12%
Humphreys	2013	Consolidated Fire Support HQ (HQ090)	Construction	100%	8%
Humphreys	2019	CAP 092180 Army Lodging Renovation S-121	Design	0%	
Humphreys	2019	OTH 087191 Pet Care Center	Design	30%	
Humphreys	2017	Water Distribution System Analysis (VA-70154)	Design	0%	0%
Humphreys	2018	[ENV] Hexavalent Chromium VI Clean up	Design	0%	0%
Humphreys	2018	Electrical Power System (VA-60106)	Design	0%	0%
Humphreys	2018	Evaluate PM Program & Template (VA-80052)	Design	0%	0%
Humphreys	2018	FY18 2ID IDIQ - YSH	Design	0%	0%
Humphreys	2018	FY18 2ID JOC	Design	0%	0%
Humphreys	2018	Repair Detention Basin III (V9-70029)	Design	0%	0%

Location	Program	Project Name	Phase	Design	Construction
Humphreys	2018	Repair Swimming Pool B110, B1949, B1484 (VS-70080, 70082, 82001)	Design	0%	0%
Humphreys	2018	Replace Security Steel Bar, Detention Basin	Design	0%	0%
Humphreys	2019	2ID Parade Field Grass	Design	0%	0%
Humphreys	2019	Construct Concrete pad at B1078 (ZH-80026)	Design	0%	0%
Humphreys	2019	Construct Overhead Cover, 2ID HQ (WU-80031)	Design	0%	0%
Humphreys	2019	Convert Office to Laundry, B577 (GT-90001)	Design	0%	0%
Humphreys	2019	Facility Repair Work, B535 (V4-82010)	Design	0%	0%
Humphreys	2019	Hydrological Study for Entire Base(VA-80163)	Design	0%	0%
Humphreys	2019	Install Laundry Hook ups at NCO Academy, B6120 (SG-90001)	Design	0%	0%
Humphreys	2019	Install Visitor Control Center (TX-80092, 80046)	Design	0%	0%
Humphreys	2019	Install visitor control center and turnstiles (TX-80092, 80046)	Design	0%	0%
Humphreys	2019	Liquid Analysis of Transformers (VA-70021)	Design	0%	0%
Humphreys	2019	Modify for Utility Shops Swing Spaces (VA-80319)	Design	0%	0%
Humphreys	2019	Renovate Elevators (VA-80287)	Design	0%	0%
Humphreys	2019	Renovate Varies Rooms HQ020 (TX-90012, 80027, 80029)	Design	0%	0%
Humphreys	2019	Repair Leaking Water Roof, B6809 (VQ-82108)	Design	0%	0%
Humphreys	2019	Repair Open Storm Drainage at Airfield (V9-70030)	Design	0%	0%
Humphreys	2019	Repair Roof Leakage, B6815 (VS-92003)	Design	0%	0%
Humphreys	2019	Replace Chain Link Fence and Playground mat	Design	0%	0%
Humphreys	2019	Seasonal Maintenance outdoor pool, B1484 (VS-90046)	Design	0%	0%
Humphreys	2019	SHARP Resource Center, B300 (Z2-80034)	Design	0%	0%
Humphreys	2019	Structural Analysis of Ajou HLZ	Design	0%	0%
Humphreys	2019	Structural Design analysis, B1258 (WF-80003)	Design	0%	0%
Humphreys	2017	Repair B483 & B302 (WF-60001, ZH-40001)	Construction	0%	38%
Humphreys	2018	Construct Crossing (VA-80019)	Construction	0%	37%
Humphreys	2018	FY18 SRM JOC - 501st MI BDE	Construction		8%
Humphreys	2018	Install load bank, B12008 (VF-80018)	Construction		8%
Humphreys	2018	Install Personnel Protection Bunker. Det L (127704)	Construction		0%
Humphreys	2018	Morning Calm Road (VA-70020)	Construction	0%	37%
Humphreys	2018	Repair AC Road (VA-70156, 70184)	Construction	0%	35%
Humphreys	2018	Repair Airfield Drainage, Elec power (VA-72047)	Construction	0%	0%
Humphreys	2018	Repair CPX Gate Area Road (VA-70164)	Construction	0%	5%
Humphreys	2018	Repair ICO in S-1280 (W4-80014)	Construction	0%	36%
Humphreys	2018	Repair Road and Drainage (VA-70161)	Construction	0%	30%

Location	Program	Project Name	Phase	Design	Construction
Humphreys	2018	Repair Road and Drainage (VF-50014)	Construction	0%	1%
Humphreys	2018	Repair Unsound Building Structure, S-726 (VA-80006)	Construction	0%	9%
Humphreys	2019	[Korea Wised] DoDEA Pacific West Total Maintenance Contract	Design	0%	0%
Humphreys	2019	Extend Concrete Sidewalks with rails at Bus Lanes (PAC19044)	Design	0%	0%
Humphreys	2019	Repair Athletic Field Surface	Design	0%	0%
Humphreys	2019	Replace GYM Exterior Doors	Design	0%	0%
Humphreys	2015	Black Hat (C4I040)	Design	90%	
Humphreys	2007	Utils & Infrac - Parcel 2A, 1 & K (New Land) (INFRA030A)	Construction	100%	99%
Humphreys	2008	C4I/Info System - Outside Plant Cabling (C4IO-SP020)	Construction	100%	67%
Humphreys	2008	Utils & Infrac for Existing Land (INFRA030D)	Construction	100%	99%
Humphreys	2009	Upgrade Power Distribution & Substation (INFRA030E)	Construction	100%	99%
Humphreys	2018	Hot Refuel Point(OS120)	Design	0%	
Humphreys	2018	Unaccompanied Enlisted Personnel Housing Ph 1 (UEH120A)	Design	100%	
Humphreys	2018	Vehicle Maint Facility & Company Ops Complex (3rd CAB)	Design	90%	
Humphreys	2019	Air Support Operations Sq Compound (OS020)	Design	95%	
Humphreys	2019	Echelon Above BDE EN BN VMF (VMF140)	Design	90%	
Humphreys	2019	Site Development (INFRA070)	Design	95%	
Humphreys	2020	Airfield Services Storage Warehouse (AV090)	Design	0%	
Humphreys	2020	Satellite Communications Facility (SAT010)	Design	15%	
Humphreys	2020	Unaccompanied Enlisted Personnel Housing (UEPH100A)	Design	15%	
Humphreys	2021	Attack Reconnaissance Battalion Hangar (AV061)	Design	0%	
Humphreys	2021	Unaccompanied Enlisted Personnel Housing (UEPH100B)	Design	15%	
Humphreys	2021	Unaccompanied Enlisted Personnel Housing Ph 2 (2 Towers)	Design	40%	
Humphreys	2022	Elementary School (DoDDS040)	Design	15%	
Humphreys	2022	Patriot Tactical Site (TAC010)	Design	0%	
Humphreys	2022	Type I Aircraft Parking Apron (AV170)	Design	90%	
Humphreys	2022	Unaccompanied Enlisted Personnel Housing (UEH095)	Design	0%	
Humphreys	2023	Embedded Behavioral Health Clinic (1st BCT) (MED060)	Design	0%	
Humphreys	2014	Downtown SLQs (SLQ031)	Construction	100%	100%

Location	Program	Project Name	Phase	Design	Construction
Humphreys	2014	Unaccompanied Enlisted Personnel Housing I (UEH050)	Construction	100%	100%
Humphreys	2015	Bulk Fuel Storage Tanks & Pumps (OS031)	Construction	100%	97%
Humphreys	2015	MI Field Station (C4I050)	Construction	100%	99%
Humphreys	2016	3rd MI Aircraft Maintenance Hangar Complex (AV051)	Construction	100%	59%
Humphreys	2016	Type II Aircraft Parking Apron & Taxiway (AV062)	Construction	100%	61%
Humphreys	2016	Unaccompanied Enlisted Personnel Housing (UEH110)	Construction	100%	86%
Humphreys	2017	Doppler VOR Infrastructure (Site Preparation) (AV080)	Construction	100%	100%
Humphreys	2017	Duplex Company Operations, Zoeckler Station (HQ041)	Construction	100%	41%
Humphreys	2018	Eighth Army Correctional Facility (OS060)	Construction	100%	0%
Humphreys	2018	Small Arms Ammunition Warehouse (OS070)	Construction	100%	4%
Humphreys	2018	DLA Yard Improvement	Design		
Humphreys	2009	BCTC Secure Use Facility (C4I090)	Design	100%	
Humphreys	2017	175th Finance Center (SPT110A)	Design	60%	
Humphreys	2018	CY18 YRP Temporary Construction (TEMP020A)	Design		
Humphreys	2019	Command General Officer's House (AFH051)	Design	0%	
Humphreys	2008	Hospital & Ambulatory Care Center (MED020)	Construction	100%	99%
Humphreys	2008	Phase III Facility (C4I030)	Construction	100%	83%
Humphreys	2009	AAFES Facilities (AAFES010)	Construction	100%	99%
Humphreys	2009	Army Family Housing-General Officers (AFH050)	Construction	100%	100%
Humphreys	2009	BCTC & Transient UPH (TNG010)	Construction	100%	99%
Humphreys	2009	Bulk Fuel Facility (OS030)	Construction	100%	95%
Humphreys	2009	Communication Center (C4I010)	Construction	100%	87%
Humphreys	2009	Family Housing Towers (AFH020)	Construction	100%	98%
Humphreys	2009	Golf Course and Facilities (REC010)	Construction	100%	100%
Humphreys	2009	Midtown Community Support (SPT010)	Construction	100%	95%
Humphreys	2009	Zoeckler Station Community Support (SPT140)	Construction	100%	90%
Humphreys	2010	Communication Center Alpha Area (C4I011)	Construction	100%	99%
Humphreys	2010	USFK Operations Center (C4I080)	Construction	100%	31%
Humphreys	2010	Warehouse Area (SPT060)	Construction	100%	85%
Humphreys	2011	Animal Building & Others (OS050)	Construction	100%	100%
Humphreys	2011	Landscaping (INFRA060)	Construction	100%	46%
Humphreys	2011	Medical Support Area (VMF120)	Construction	100%	100%
Humphreys	2012	Type II Aircraft Parking Apron, Surface (HQ050A)	Construction	100%	73%
Humphreys	2017	302 PN UEPH 092, 093, 094 (UEH0929394)	Construction	100%	23%

Location	Program	Project Name	Phase	Design	Construction
Icheon	2018	SOCKOR Contingency Operations Center & Barracks	Construction	100%	1%
K-16	2018	SOF Operation Facility, B-606	Construction	100%	0%
Kimhae	2019	JOC-Replace Fuel Tanks, FAC#1013, Kimhae Air Base	Design		
Kimhae	2020	Airfield Damage Repair Warehouse (Kimhae Air Base)	Design	15%	
Kimhae	2022	Repair Contingency Hospital	Design	0%	
Koryosan	2017	Repair Det J Secure Room Ceiling, Koryosan Site	Construction		0%
Kunsan Air Base	2018	CAP 081359 Tactical Unmanned Aerial Vehicle	Design	100%	
Kunsan Air Base	2018	Renovate Dorm 340 and 522	Design	30%	
Kunsan Air Base	2019	Construct Vehicle Maintenance Admin	Design	0%	
Kunsan Air Base	2019	Install SCADA System on all Lift Stations	Design	0%	
Kunsan Air Base	2019	Renovate Vehicle Operations Admin, B960	Design	0%	
Kunsan Air Base	2019	Repair Supply Warehouse, B823	Design	0%	
Kunsan Air Base	2019	Replace HVAC & Interior at Supply Warehouse, B822	Design	0%	
Kunsan Air Base	2019	Replace HVAC System at CE Maint Shop, B737	Design	0%	
Kunsan Air Base	2019	Replace Media Blast Booth, B2819	Design	0%	
Kunsan Air Base	2017	Fire Suppression System, B-2241	Construction	100%	99%
Kunsan Air Base	2017	JOC-Repair Dormitory B-1440	Construction		95%
Kunsan Air Base	2017	JOC-Repair Kitchen Hood and Duct	Construction		95%
Kunsan Air Base	2018	Fire Suppression System, B-2240	Construction	100%	7%
Kunsan Air Base	2018	JOC-FY18 JOC Airfield Paving (Kunsan)	Construction		100%
Kunsan Air Base	2018	JOC-FY18 JOC Projects (Kunsan)	Construction		100%
Kunsan Air Base	2018	Replace Lift Station	Construction	100%	86%
Kunsan Air Base	2018	3rd Generation HAS, Phase 4,5,6	Design	100%	
Kunsan Air Base	2019	Explosive Ordnance Disp. Fac.	Design	100%	
Kunsan Air Base	2019	Upgrade Flow-Through Fuel System (Wolf Pack)	Design	90%	
Kunsan Air Base	2021	Construct Backup Generator Plant	Design	0%	
Kunsan Air Base	2021	Upgrade Electrical Distribution System	Design	15%	
Kunsan Air Base	2023	Defensive Fighting Position(DFP) Towers, Kunsan Air Base	Design	0%	
Kunsan Air Base	2015	Construct 3rd Generation HAS (Ph 1, 2, 3)	Construction	100%	40%
Kunsan Air Base	2015	Flow-Through HAS (Panton)	Construction	100%	89%
Kunsan Air Base	2015	New Commercial Gate	Construction	100%	100%
Kunsan Air Base	2018	Airfield Damage Repair Warehouse	Construction	100%	1%
Kunsan Air Base	2020	Dining Facility	Design	0%	

Location	Program	Project Name	Phase	Design	Construction
Kunsan Air Base	2018	Install Floating Roof	Design	10%	
Kunsan Air Base	2018	Various DLA projects	Design	90%	
Kwangju Air	2019	Repair Conventional Munitions Shop B1503	Design	0%	
Kwangju Air	2017	Repair Fire Station B-2122	Construction	100%	46%
Kwangju Air	2017	Repair GYM B-150	Construction	100%	100%
Kwangju Air	2018	Repair Base Engineer Admin B-2153	Construction	100%	0%
Kwangju Air	2020	Airfield Damage Repair Warehouse	Design	15%	
Kwangju Air	2021	Construct Type IV Hydrant System	Design	0%	
Kwangju Air	2023	Maintenance Hangars & Apron	Design	30%	
Osan Air Base	2020	Cold Distribution Center Arch & Refri/HVAC Upgrade	Design	90%	
Osan Air Base	2020	Commissary Arch & Refrig/ HVAC Upgrade	Design	90%	
Osan Air Base	2013	CAP 072419 Hospital Addition/Alteration	Construction	100%	96%
Osan Air Base	2018	ACE SMYU163002A Base-Wide Natural Gas Conversion PHASE I	Design	100%	
Osan Air Base	2017	ACE SMYU173005 ECIP: Install Solar Air Heaters, MULTI FAC	Construction	100%	85%
Osan Air Base	2018	Construct Chapel Center	Design	100%	
Osan Air Base	2023	Child Development Center	Design	60%	
Osan Air Base	2019	ACE SMYU073011 MWD Kennel Supporting Fac	Design	90%	
Osan Air Base	2018	Repair C4I Room Into SCIF	Design	0%	
Osan Air Base	2017	JOC-Remove Asbestos in Rm# 212, KCOIC B-940	Design		
Osan Air Base	2017	JOC-Repair 5th RS MX Hangar Doors, B-849	Design		
Osan Air Base	2017	JOC-Repair Fire Detection & Protection System	Design		
Osan Air Base	2018	JOC-HVAC System Study for Dorm B918	Design		
Osan Air Base	2018	JOC-Repair 3rd Gen HAS Lighting System	Design		12%
Osan Air Base	2018	Repair Fire Protection System Hangar B1173	Design	30%	
Osan Air Base	2018	Repair Aircraft MX Hangar B1732	Design	30%	
Osan Air Base	2018	Repair Fire Protection System Hangar B851	Design	30%	
Osan Air Base	2019	Repair WRM Warehouse, B2462	Design	0%	
Osan Air Base	2020	Repair 5th RS AGE Maintenance & 694 ISRG Storage B850	Design	0%	
Osan Air Base	2020	Repair Fuel Tanks, Base Wide	Design	0%	
Osan Air Base	2015	Repair Fire Protection System B-843	Construction	100%	87%
Osan Air Base	2017	JOC-Repair Airfield Pavements	Construction		56%
Osan Air Base	2017	JOC-Repair Hardened Aircraft Shelters	Construction		65%
Osan Air Base	2017	JOC-Repair Munitions Storage Facilities	Construction		79%
Osan Air Base	2017	JOC-Repair Sewer Lines, Base-Wide	Construction		96%
Osan Air Base	2017	JOC-Repair Airmen Dorms, B-1346 (156RM)	Construction		99%

Location	Program	Project Name	Phase	Design	Construction
Osan Air Base	2017	JOC-Repair Airmen Dorms, B-1438 (144 RM)	Construction		99%
Osan Air Base	2017	JOC-Repair Airmen Dorms, B-1460 (156RM)	Construction		99%
Osan Air Base	2017	Repair FP System AS B-849 & PH B-848	Construction	100%	11%
Osan Air Base	2017	Repair FP System for Pump House B-846	Construction	100%	99%
Osan Air Base	2018	JOC-Maintain Runway and Airfield Markings	Construction		0%
Osan Air Base	2018	JOC-Repair Airfield Gates and Entry Control Systems	Construction		1%
Osan Air Base	2018	JOC-Repair Airfield Pavement	Construction		1%
Osan Air Base	2018	JOC-Repair HASs B-Diamond	Construction		2%
Osan Air Base	2018	JOC-Repair Latrine/Shower Facility, B1834 & B2419	Construction		1%
Osan Air Base	2018	JOC-Repair Roll-up Doors, Multi Facility	Construction		0%
Osan Air Base	2018	JOC-SMYU191042 Repair Roofs for MUNS Maint B2421 & 1830	Construction		1%
Osan Air Base	2018	Renovate SQ Ops Building 1182	Construction	100%	27%
Osan Air Base	2018	Repair Aircraft Maintenance Hangar B1731	Construction	100%	0%
Osan Air Base	2019	Repair Central Sterile Supply Space, B-777	Design	95%	
Osan Air Base	2019	Repair/Renovate Bath/Locker/Janitor Rooms at Osan MHS	Design		
Osan Air Base	2018	JOC-Install Radon Mitigation OES	Construction		100%
Osan Air Base	2013	Aircraft Corrosion Control Fac (Ph 3)	Design	30%	
Osan Air Base	2019	5th Reconnaissance Squadron Aircraft Shelter	Design	100%	
Osan Air Base	2019	Communications HQ Building	Design	30%	
Osan Air Base	2020	Airfield Damage Repair Warehouse	Design	30%	
Osan Air Base	2021	Relocate Munitions Storage Area Delta (Ph 1)	Design	0%	
Osan Air Base	2022	Korea Air and Space Operations Center (KAOC)	Design	0%	
Osan Air Base	2022	Upgrade Electrical Dist Overhead to Underground	Design	0%	
Osan Air Base	2023	7th Air Force HQ	Design	15%	
Osan Air Base	2023	Relocate Munitions Storage Area Delta (Ph 2)	Design	0%	
Osan Air Base	2023	Repair 3rd Generation Hardened Aircraft Shelters (HASs)	Design	0%	
Osan Air Base	2023	Security Guard Towers North Perimeter	Design	0%	
Osan Air Base	2014	Munitions Storage Area Alpha	Construction	100%	47%
Osan Air Base	2014	Replace Main Runway	Construction	100%	45%
Osan Air Base	2015	Morin Gate Entry Control and Base Perimeter Defense	Construction	100%	99%
Osan Air Base	2016	607th ASOG & SOCKOR	Construction	100%	99%
Osan Air Base	2016	Aircraft Fuel System Maintenance Dock	Construction	100%	70%
Osan Air Base	2016	Repair Critical Comm Node, Comm HQ B-949	Construction	100%	75%

Location	Program	Project Name	Phase	Design	Construction
Osan Air Base	2017	Air Freight Terminal Facility	Construction	100%	13%
Osan Air Base	2017	Construct F-16 Quick Turn Pad	Construction	100%	45%
Osan Air Base	2018	Main Gate ECF	Construction	100%	0%
Osan Air Base	2018	Extend Railroad Spur Line	Design	0%	
Osan Air Base	2009	VIP Aircraft Area (AV040N)	Construction	100%	95%
Pohang	2017	Repair Fire Suppression System at Tri-Service Hangar	Construction	100%	6%
Pohang	2020	Replace Ordnance Storage Magazines	Design	30%	
Suwon	2019	Repair conventional Munitions Shop, B2404	Design	0%	
Suwon	2018	Repair Aircraft Weapon Shop B-2529	Construction	100%	0%
Suwon	2018	Repair Base Engineer Admin B-2224	Construction	100%	0%
Suwon	2018	Repair Vehicle Maintenance Shop B-2208	Construction	100%	0%
Suwon	2020	Airfield Damage Repair Warehouse (Suwon Air Base)	Design	15%	
Suwon	2021	Type IV Hydrant System	Design	0%	
Suwon	2018	Repair POL Tank 2662	Design	100%	
Various Loc	2018	DeCA HVAC Maintenance Contract for Korea Wide	Construction		100%
Various Loc	2020	ACE SMYU023005 Korea Air Space OPS & Combat OPS-INTEL Center	Design	0%	
Walker	2019	CAP 081429 Family Housing Replacement (Tower #4)	Design	90%	
Walker	2015	CAP 081230 Family Housing New Construction (Tower #1)	Construction	100%	99%
Walker	2016	CAP 081427 Family Housing New Construction (Tower #2)	Construction	100%	70%
Walker	2017	CAP 081428 Family Housing New Construction (Tower #3)	Construction	100%	7%
Walker	2018	Commissary Arch & Refrig/HVAC Upgrade	Construction	100%	0%
Walker	2018	085893 Golf Pro Shop Renovation	Design	90%	
Walker	2017	Repair/Maintenance of Pool	Construction	100%	78%
Walker	2017	Soldier Support Center	Construction	100%	59%
Walker	2018	Install ESPG Camp Walker	Construction		50%
Walker	2019	Install Water Hammer Arrestors, MHS	Design		
Walker	2019	Replace Hub Doors & Install Covered Pathway & Amphitheater, MHS	Design		
Walker	2019	Repair/Replace Sewer Piping System	Design	95%	
Yongsan	2017	Replace/Upgrade Gate & Check Valves, B5395	Construction		0%
Yongsan	2009	Yongsan Residual	Design	10%	
Yongsan	LR	CFC Residual Move to MND	Design		

Humphreys Projects

Construction Surveillance Resident Office

C4I010 YRP, Communication Center

The C4I010 Communication Center was awarded in July 2013 to GS Consortium with a construction cost of \$170.95 million, and is scheduled to be completed in the late 2019 at USAG Humphreys.

This facility is essential to provide the needed communications systems and infrastructure support for the relocation of many critical facilities.

The Communications Center is a multi-story building. The building is divided into three main components. There is a protected area, an unprotected area, and a parking garage. The protected area is a 2-story volume, above grade, that is sub-divided into a Central



Rendering of C4I010 Communication Center

Utility Plant (CUP) and the Computer Server Support area. The protected area will be constructed as a hardened structure with CPS (Collective protection system) that supports critical communications equipment, transmission, switch, network, and server systems and the personnel who operate, monitor, protect, and maintain them.

The protected area also gets N+2 redundant systems (generators, power, HVAC, etc) to allow the facility to operate for a defined period independently. Also the geothermal wells of 1,070 holes in depth of 230 meters will provide 4,554 tons of energy, and cover the protected area's cooling at endurance mode and unprotected area's cooling and heating

at normal mode.

The unprotected area is a three story component that wraps around the protected area providing additional protection against the defined threat. This area contains secure and unsecure spaces that provide services and support for USAG Humphreys C4I requirements.

The 6 floor Parking Structure with 700 parking spaces is intended to provide parking for civilians and authorized military personnel working in the building. The ground parking lot around building will also be provided for the additional 31 vehicles of customers and visitors.

HQ050 YRP, Consolidated Installation Headquarters

The HQ050 project consists of the design and construction of the Consolidated Installation Headquarters Area at USAG Humphreys. The project was awarded to Daelim Consortium in March 2014 with a contract amount of \$120.34 million. The criteria package for this project was initially designed by Amkor to meet Army Standard Design criteria for administration buildings with the completed design by Sun Jin & Dong Woo. This project has three project sites.

Site #1 has two administration buildings; one building for the Far East District (FED), and one building that will house both the Department of Defense (DoD) & the Department of the Army (DA). These facilities provide day-to-day administrative services. The Far East District (FED) has been identified as part of the USFK Relocation and Transition program for the Korea Command initiatives throughout the Korean peninsula to perform Engineering and Construction services as operational requirements. There is ample parking spaces for Privately Owned Vehicles (POV). Construction Management is performed by Kunwon-CH2MHILL Program Management Consortium (K-C PMC) and FED is responsible for construction surveillance. The Consolidated Installation Headquarters Area was accepted by the Garrison in May 2018.

Site #2 has three administration buildings. The first building is a multi-story building with three floors that houses both Department of public works (DPW) and Department of Logistics (DOL). The second building is a multi-story building with two floors that will house the Air Force Ready Reserve Command (AFRC), and the last building is a multi-story building with three floors houses Consolidated Installation Headquarters. The facilities were accepted in Nov. 2017.

Site #3 is the new home to the Emergency Operation Center at USAG Humphreys. This facility will provide day-to-day administrative services. This



HQ050 Site#1 Far East District Headquarters Building

facility has been identified as part of the USFK Relocation and Transition program for the Korea Command initiatives as an operational requirement. This facility will have ample parking spaces for POV. This facility were accepted in Oct. 2017.

INFRA030, ROKFC Land Development and Utilities Infrastructure, Parcel 2A and Existing Humphreys

The Land Development and Utilities Infrastructure (LDUI) project is the largest design-build contract FED has had. The \$744 million design-build contract was awarded to SK Engineering and

Construction in early 2009 and is for land development and utility systems on the existing Garrison and in Parcels 1, K, and 2A of the new land provided to the US for expansion under the Yongsan Relocation Plan and Land Partnership Plan. The effort has required: 7 millions of cubic meters of earthwork, 23 kilometers of road construction, 30 kilometers of drainage system, 36 kilometers of water distribution lines, 18 kilometers of sewer conveyance lines, 24 kilometers of natural gas distribution lines, 41 kilometers of electrical lines, 35 kilometers of communication lines, building two new water storage tanks, a new water chlorination system, 17 lift stations, and two electrical substations. The project is approximately 99 percent complete, and is scheduled to be completed on in May 2019.

INFRA060, Landscaping

The INFRA060 project was awarded in Sept. 2015 to KCC Consortium with a construction cost of \$6.6 million. Facilities include three canal crossing pedestrian bridges, an outdoor rest room, three large shelters with two drinking fountains and three barbeque grills, five small shelters, community trails along the canal with planting and grassing areas. All spots are easy to access from bus stops, barracks, and other downtown facilities between “E” and “F” Avenue along the canal. This project also relocated six monuments as General Walker



Land Development and Utilities Infrastructure, Parcel 2A and Existing Humphreys

and YI's Status, Eighth Army Memorial, and others from Yongsan to Humphreys and Navy and Camp Mujuk. The majority of the construction was completed in early 2018 and was undergoing design work for the Multi-purpose Athletic Field currently under construction.

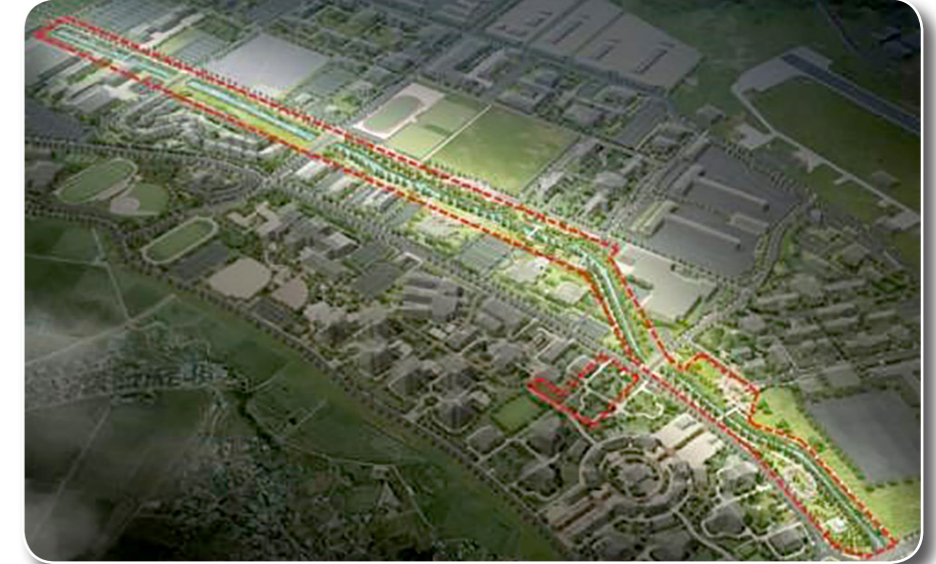
INFRA060, Multi-Purpose Athletic Field (MAF)

The project was modified in Aug. 2017 to KCC Consortium with a construction cost of \$10.9 million by adding \$3.7 million of estimated MAF cost. The MAF facility was de-scoped from another project and relocated to current location, requiring are-design of the project. Fast-Track method was implemented to shorten the contract period. This enabled the contractor to commence construction on activities not affected by the ongoing design work.

The project is scheduled to be completed in early 2020.

OS030 YRP, Bulk Fuel Oil Facility

This OS030 Bulk Fuel Oil facility is the first oil facility in the USAG Humphreys to be in full design based on the Army Standard Design and criteria. The facility is located at the Far West end of the new land adjacent to the Railhead



Rendering of INFRA060 Multi-Purpose Athletic Field

project. The project began in Dec. 2014 and is expected to be completed in March 2020. The project was designed by Amkor and the remaining portion of the design (up to 100 percent) was completed by Sun Jin & Dong Woo. The total contract amount is \$24.7 million dollars, and was awarded to Daelim Consortium who is executing the detailed design and construction.

This project will have the capabilities of receiving and sending fuel by tank truck and rail car including two 84,000 gallon operational storage tanks with pump houses, a Control/Filter building, a Fuels/Army Oil Analysis Program (AOAP) Lab, a filling station with JP-8

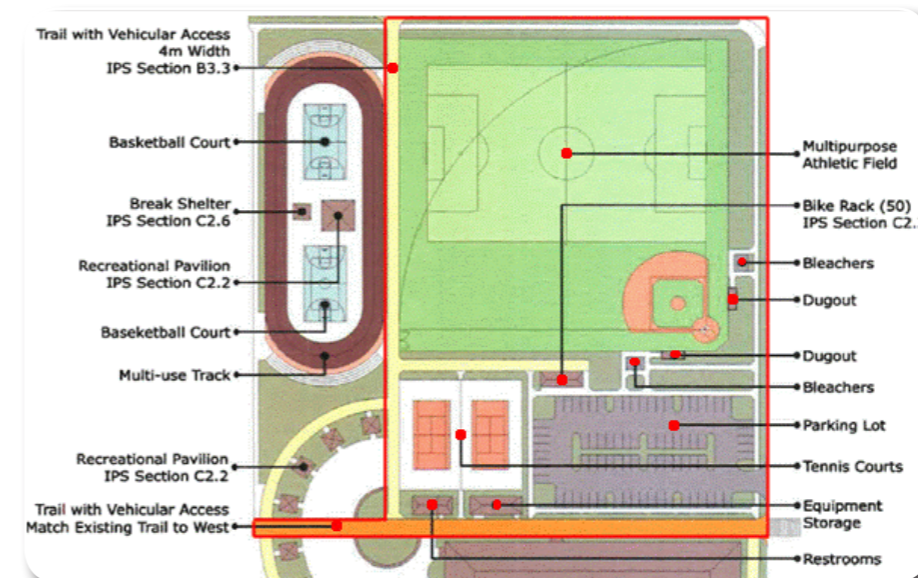
truck fill stand, a diesel filling station with 48,000 gallons storage, and gasoline filling station with 24,000 gallons. Fuel oil tanks will be steel shells encased in 19.7-inch thick concrete and partially buried; this is commonly referred to as cut-and cover construction. An electrical building to house pump motor control centers and a temporary control panel is included in the project.

MURO is responsible for construction, and K-C Program Management Consortium (PMC) is responsible for execution and management of construction. FED Construction Surveillance Resident Office is responsible for construction surveillance.

OS031 ROKFC-in-Kind, Fuel Oil Facilities

The OS031 Fuel Oil Facility includes the construction of two 50,000 barrel (50 MBBL), which is about 2.1 Million gallons, bulk fuel storage tanks with pump houses and pumps. A small electrical building to house motor control centers and a temporary control panel is also included, as are a valve pit, waste water tank (4,000 gallon underground) and truck load/offload island.

The contract was awarded to Namwha Construction at \$14.78 million, and was scheduled to be completed by Oct. 2018; however it has experienced delays



Multi-Purpose Athletic Field



Site Overview of Bulk Fuel Oil Facility



due to an adjacent sister project that it ties into. Once it's commissioned with the adjacent fuel facility. Current completion is 95 percent, including precast pre-stressed concrete piles, slabs-on-grade, and buried concrete encased steel shells of the tanks, Tank-Pump-to-Pipe lines, two pump houses and one control room. Additional changes will include connection to adjacent sister project back up power generation and Emergency Power Down System connections.

OS040 YRP, Small Arms Range

The OS040 Small Arms Range is a \$34.07 million design-build project, awarded to Shindongah Engr. & Const. Co., Ltd. The facility consists of facilities and structures for the Small Arms Range, with primary facilities consisting of Ammo Storage Magazine, Baffled Combat Pistol/ MP QC (CP QC) range, Baffled M-16/ M-4 23-meter (Zero) range, Baffled M-16/ M-4 300-meter Modified Record (MRF) Fire Range and Grenade Launcher (M203) range.

Secondary facilities include Range Operations and Storage, Range Control Space, Classrooms (1&2), Ammo Break-down Building, Latrine, Covered Bleacher, Field Dining, Shop/Storage Building, Small Arms Range Operations Center, Guard Booth and baffles for the three ranges: Baffled Combat Pistol/ MP QC (CP QC) range, Baffled M-16/ M-4 23-meter (Zero) range, Baffled M-16/

M-4 300 meter MRF Fire Range.

Other supporting facilities include the standard Range Operations and Control Area (ROCA) buildings/structures, access roads, underground utilities, security lighting, pervious paving, sidewalks, fencing and gates, parking, bicycle rack, dumpster pads, storm drainage, exterior information, and site improvements. The project was completed in May 2018.

OS050 YRP, Animal Building and Others

OS050 Animal Building Site #2 project is located on existing Humphreys and within the first garrison fence move,



Animal Building Site 1

and is a part of the army garrison expansion which will facilitate the relocation of numerous existing military organizations as part of the Yongsan Relocation Program. OS050 is being built on four different sites. Site 1, Animal Building is adjacent to the existing animal building and the Confinement Facility in the MP Hill area. Site 2, Army Lodge is adjacent to the existing lodge and the new Morning Calm Conference Center. Site 3, NBC Chamber is located in the new garrison expansion area next to the recently completed Small Unit Training off of A Avenue and Airfield Road. Site 4, Park is located in the new Garrison expansion area off of 7th St. next to the Midtown Community Support area and Downtown Business Park.



Overall Construction Photo of Army Lodge Site #2



Sample room of Army Lodge Site #2

NTP for Sites 2, 3, and 4 was issued in June 2015, site 1 NTP was issued in Oct. 2015. The park site was accepted by the Garrison in Sept. 2017. The NBC Chamber was accepted in Dec. 2017. The Animal Building was accepted in May 2018, and will be followed by the Army Lodge which is expected to be completed in the Spring of 2019.

The Criteria Package (CP) was designed by AMKOR and the remaining portion of the design up to 100 percent was completed by Dong Woo consortium. The total contract amount is \$18.9 million, and was awarded to POSCO consortium who will be executing the detailed design and construction.

OS050 Army Lodge #2 is the new wing to the Army Lodge. This building is 5-story high and provides a total of 78 units including guest rooms, suites, ADA rooms, and pet friendly suites.

OS050 NBC Chamber #3 consists of an NBC Chamber, latrine, class room, covered bleacher, and field dining facility.

OS050 Park #4 consists of approximately 1000 square meters of green space with a lighted trail and benches that connects a barracks and DFAC to the 2nd ID Museum.

RED010, Golf Course and Facilities

This turn-key contract provides replacement of the 18-hole Sungnam Golf Course, related facilities, and the USAG Yongsan Hartell House. The key



OS050 NBC Chamber #3



OS050 Park #4

features of the Robert Trent Jones designed 18-hole golf course will include a 48-tee driving range, chipping and putting greens, and practice pitch and put course. The key features of the Golf Clubhouse include a formal restaurant, banquet facilities, snack bar, pro-shop, kitchen facilities, office space, and

locker rooms.

The project was awarded on Feb. 20, 2014 to Daebio Construction Consortium with a construction cost of \$54.5 million. This project was completed and accepted by the Garrison in Oct. 2018.

Family Housing Resident Office

AFH020 YRP, Family Housing Towers

This Family Housing Towers are three 12-story apartment towers, which sit directly adjacent to the existing towers which were completed in 2012. This project accommodates a total of 216 military personnel and their families. The towers include 144 three-bedroom units at 1,982 square feet, 54 four-bedroom units at 2,168 square feet, and 18 five-bedroom units at 2,447 square feet. Ancillary facilities include tot lots, multi-age playgrounds, and an underground parking garage that accommodates 285 vehicles. The project was awarded in Dec. 2014 to Hyosung Consortium at a cost of \$127.1 million. FED is providing construction surveillance. The project is scheduled for completion in March 2019. Currently DPW pre-final inspection is ongoing for project turn over. The project is approximately 99 percent complete.

AFH050/060 YRP, Army Family Housing for General Officers and Senior Officers

Together with the AFH070 MOCT-funded housing project which was completed in Nov. 2017, AFH060 forms a looped housing community for senior officers and commander-level military personnel and their families. AFH060 includes 36 two-story duplex houses for a total of 72 units. Like the AFH070 project, each unit provides 2,900 square feet of living space, four bedrooms, and two and a half bathrooms. Neighborhood site amenities include a playground, multipurpose court, picnic areas, bus stops, bicycle racks, benches, trash receptacles, and a community jogging trail.

The AFH050 project forms Humphreys' second looped housing community area and is intended for general officers. It includes the house for the USFK

Commander (which is currently under design), two single-story houses for high ranking generals, and 20 additional 2-story houses. The majority of the houses are approximately 4,000 square feet each. All of the houses are single houses, rather than duplex units, and have a two-car garage. Like the AFH060 and 070 housing, they all have four bedrooms and two and a half baths, exterior storage, visitor parking, and barbecue grill areas. Neighborhood site amenities at AFH050 include a playground, basketball court, tennis court, picnic areas, bus stops, bicycle racks, and a community jogging trail.

The contract was originally awarded on Feb. 27, 2014. AFH050 and AFH060 were completed in June and May 2018 respectively. The 4-Star General's house is currently on hold until redesign is completed.

AFH100 MILCON, Family Housing New Construction

The project consists of three 12-story family housing apartment towers to accommodate a total of 216 family dwelling units (144 three-bedroom units, 54 four-bedroom units, and 18 five-bedroom units) for Senior Non-Commissioned Officers (E7-E8) and their families. Ancillary facilities include tot lots (2-5 years of age), multi-age (5-12 years of age) playgrounds, outdoor pavilions, a basketball court, recreational trailers, and an underground parking structure to accommodate 250 vehicles. The project is located next to the existing family housing apartment towers, and a separate project to construct a multipurpose athletic field is located adjacent to the project site. The project was awarded to Daewoo E and C on Aug. 31, 2017, and the total cost of the project to date is approximately \$122 million. The project is scheduled for completion in Dec. 2020. The contractor completed the pile foundations and is currently performing reinforced concrete work for the towers and parking garage.



AFH100 Family Housing New Construction



Rendering of AFH100 Family Housing New Construction



AFH020 Family Housing Towers



AFH060 Army Family Housing for Senior Officers

TNG020A ROKFC-in-Kind, Simulation Center

The Simulation Facility brought together a number of Korea's Army training facilities under one roof. It includes areas dedicated for Tactical Skills Trainers, Close Combat Tactical Trainer, Call for Fire Trainer and Stinger Trainer, Fire Support Combined Arms Tactical Trainer, Weapons Trainers including Engagement Skill Trainer and Laser Marksmanship, Digital Training Facility, Medical Simulation Training Center, Water Survival Training Center, HMMWV Egress Assistance Trainer, Chinook and Aviation Combined Arms Tactical Trainer Simulators and Gunnery Trainers, and Live Virtual Constructive Gaming Integrating Architecture training system.

The project was awarded Dec. 24, 2012 for \$33.7 million to Seohee Construction Co., Ltd. The project was turned over to DPW in March 2018.

TNG020B ROKFC-in-Kind, NCO Academy and Transient UPH

This project is the Non-Commissioned Officer Academy and Korean



TNG020A Simulation Center

Augmentation to the U.S. Army (KA-TUSA) Training Academy. The NCOA/KTA is a single

U-shaped building that includes an administration component, general instruction component, a transient unaccompanied personnel housing area, auditorium, and parade ground. The project was awarded Dec. 18, 2012 for \$28.4 million to Keangnam Construction Co., Ltd. The project was turned over in March 2018.

TNG010 YRP, BCTC & Transient UPH

This project consists of a Battle Command Training Center (BCTC) with Exercise Billeting. The building provides primary facilities for conducting computer driven battlefield simulation exercises to division level with links to other BCTCs, an exercise planning and coordination center, a training, readiness, and exercise center, a large video conference center with standard and secure VCT, classrooms, secure and non-secure communication and building information



TNG010 Battle Command Training Center

systems, a rooftop antenna field, and UPS back-up power. The transient Unaccompanied Personnel Housing will provide exercise billeting for 800 personnel with latrines, showers, laundry washers and dryers, lounge, and internet café. Quality Assurance is performed by K-C PMC, and FED is responsible for construction surveillance. The project was awarded in Feb. 2014 to Daebong Consortium at a cost of \$49.8 million. The UPH was turned over in Feb. 2018. The BCTC is scheduled to be turned over in March 2019.

Three support project bundles were awarded at \$69 million to the Kumho Consortium on July 30, 2014. The bundles include a total of 11 facilities, which are scheduled for completion in 2017. The projects support the increase in population associated with the re-stationing of 2ID from Area I and the relocation of Yongsan Garrison as part of the Yongsan Relocation Program. Quality Assurance is performed by K-C PMC and FED is responsible for construction surveillance.

The Midtown Community Support Facilities I project contains six single-story structures, including the main post office, a branch post office, satellite fire station, automotive skills center, the main library, and the community main

chapel, which includes a chapel and religious education and family life center. To highlight one of these buildings, the community main chapel will be used for formal religious services. It also facilitates religious education and family counseling. The main worship assembly area offers fixed seating for 600 and it is adjacent to an activity center that can expand the seating to 1,191 for special occasions. The facility also contains a catering kitchen, kosher kitchen, baptistery, four chaplain offices, NCOIC office, nursery, sacristy, multipurpose room, coat room, break room, staff toilets, men's and women's public toilets, civic plaza with a bell tower, and a Porte Cochere for dropping off passengers with walkway. The satellite fire station was turned over in Nov. 2017. The main post office was turned over in Sept. 2018. The community main chapel was turned over in Aug. 2018. The branch post office was turned over in Sept. 2018. The main library was turned over in March 2018. Final inspection of the automotive skills center was held in Dec. 2018. 95 percent of the construction has been completed.

The Midtown Community Support Facilities II project includes a band training facility, a community activities center, and multi-purpose athletic fields with a two story maintenance/utility building. Highlighting the multipurpose

YRP SPT010/011, Midtown Community Support Facilities I, II and AAFES Facilities



SPT010 Main Library



TNG020B NCO Academy and Transient UPH



SPT010 Satellite Fire Station



SPT011 Community Activity Center



SPT011 Multi-purpose Athletic Fields



SPT140 MWR Restaurant

athletic fields, the fields will encompass one multipurpose 400-meter running track, a multipurpose playing field with synthetic turf for playing American flag football, soccer, rugby, or other sports, and two baseball fields with maintenance/utility building, dug-outs, and event areas. The band training facility was turned over in Dec. 2017. The multipurpose athletic fields were turned over in Nov. 2017. The community activity center was turned over in April 2018. The project is 98 percent complete.

The AAFES Facilities project includes an exchange branch mini-mall and single-story dual food facility. The mini-mall includes a car care center, gas station, and Subway restaurant. The dual food building houses a Burger King and a Popeye's restaurant. The exchange branch mini-mall was turned over in July 2018. The single-story dual food facil-

ity was turned over in Oct. 2018. The work is 99 percent complete.

YRP, Mini Mall, MWR Restaurant, and KATUSA Snack Bar

This project consists of three support facilities around Zoeckler Station: a mini mall, an MWR restaurant, and a KATUSA snack bar. The single story mini mall will include a gas station, food vendors, and retail sales. The single story MWR restaurant will have a banquet facility, bar, lounge, microbrewery, and an outdoor terrace. The single story KATUSA snack bar will be replacing the existing one at Yongsan and includes a beverage sales area, dining rooms, and an outdoor terrace as well.

The project was awarded in March 2016 to Ilsung at a cost of \$13.6 million. Performance Verification Testing is ongoing at all three sites with Testing, Adjusting, and Balancing, and Commissioning soon to follow. Though the project construction is at 91 percent many turnover inspections remain.

ROKFC-in-Kind SLQ031, Downtown Senior Leader Quarters

The Senior Leader Quarters consists of one 6-story building for 96 personnel with two passenger elevators and one freight elevator. Each floor has 16 units, and included in each unit is a private kitchen, living room, bedroom, bathroom, and washer/dryer closet. Common areas include a mud room and

storage room with lockers on the ground floor, an outdoor break area, multipurpose room, and public restrooms on the 2nd floor, and vending areas on each floor. A gazebo and sheltered bike racks are also included outside the main entrance, and a 96-stall parking lot is provided adjacent to the site.

The project was awarded to Seohee Construction Co., Ltd. on April 10, 2015 and was turned over on Dec. 10, 2018, with a total cost of approximately \$28.5 million. The facility is currently being occupied.

YRP UEPH 092/093/094, Unaccompanied Enlisted Personnel Housing

The scope of work is to construct 3-ea 8-story 302-person 1+1E Standard Barracks in accordance with the latest Barracks Specifications. Other supporting facilities include bike racks, generator and chiller enclosure, troop assemble area and parking, water and waste water



AAFES010 Dual Food

system and storm drainage system. Recreational facilities include basketball court, volleyball court and pavilions. Accessibility for the physically handicapped is provided. Project includes sidewalks, curbs and gutters, security lighting, heating, ventilating and air conditioning system, fire protection and

alarm system, etc. The project was awarded to Hanwha Consortium on Nov. 2, 2017 at a cost of \$86.8 million. The project is scheduled for completion in June 2020. Currently the contractor has completed concrete placement to the sixth and seventh floors. Construction is 23 percent complete.



Rendering of UEPH092/093/094 Unaccompanied Enlisted Personnel Housing

Medical Resident Office

MED020 YRP, Hospital and Ambulatory Care Center

The project was awarded in July 2012 together with the already completed and transferred dental clinic to Samsung C&T Corporation. The current construction cost for the Hospital and Ambulatory Care Center building is \$183 million.

The building includes a hospital wing, and an outpatient clinical/ambulatory care center (ACC) wing. The hospital wing has six levels: basement through level 5 which includes a mechanical space at level 3. This wing primarily contains ancillary

and inpatient support functions, and inpatient nursing units. The hospital has been designed to accommodate 68 inpatient beds (40 nursing/multi-care, six intensive care unit (ICU), six women & infant, two labor/delivery and 14 behavioral health). The clinic wing has five active levels (ground through level 5) plus a mechanical penthouse on the roof. The clinic wing is primarily dedicated to outpatient clinical services and administration.

The Hospital and Ambulatory Care Center is currently at 96 percent complete and is scheduled for transfer by June 1, 2019. The end user for this facility is the 65th Medical Brigade.



MED020 YRP Hospital and Ambulatory Care Center

Pyeongtaek Resident Office

AV051 ROKFC-in-Kind, 3rd MI Aircraft Maintenance Hangar Complex

This ROKFC-in-Kind project is a Hangar Complex and Concrete Apron Project. The contract value is approximately \$69.7 million. The contract was awarded to Hyundai Engineering and Construction by Ministry of National Defense – Defense Intelligence Agency in late Sept. 2016.

This project constructs a modified Aviation Maintenance Hangar Complex; fixed wing; that meets the requirements of a Certified 14 CFR Part 145 FAA Repair Station, and meets the Army Aviation Facility (TI 800-01 Appendix K) standards for the 3rd Military Intelligence (MI) Battalion (BN) Aerial Exploitation (AE). The aircraft maintenance hangar, fixed wing, is to include five dual purpose maintenance and wash bays: one large bay for RC-7 aircraft and four small bays for RC-12 aircraft. Construct two storage hangars: two bays for RC-7 and five bays for RC-12 aircraft. Construct

two Company Operations Facilities (COFs), an Entry Control Point with space for Quick Reaction Forces (QRF), and two Multiple Antenna Platforms. The hangar complex will also include POL/Hazmat Storage; Battery Shop; covered GSE Storage; covered wash rack; fuel vehicle parking; hangar access aprons for the maintenance and storage hangars; four space aircraft parking (MOC pads)

one RC-7, three RC-12; and 150 POV parking spaces. The complex will be within the airfield security perimeter and have exterior security lighting, passive vehicle barriers, and landscaping for visual screening. Special foundations are included in this project. The project will be designed to achieve a minimum LEED® v3.0 Silver Certification. The project will be registered with USGBC



RC-7 Storage, Maintenance Bay and RC-12 Storage



Rendering of AV051 3rd MI Aircraft Maintenance Hangar Complex

but will not be certified by GBCI. The aircraft parking and hangar interior will be PCC paved. Contractor construct the 2nd batch plant on base for PCC paving, located near the railhead building.

Contract Completion Date for this project is scheduled in Dec. 2019.

AV062 ROKFC-in-Kind, Type II Aircraft Parking & Taxilane

This \$15.55 million project was awarded to Yojin Construction & Engineering Co. by Ministry of National Defense – Defense Intelligence Agency (MND-DIA) in Aug. 2016 that is located at USAG Humphreys, Korea. Specifically, along the North-West intersection of Taxiway “B” (Bravo) and Taxiway “T” (Tango). This phase of the project requires the construction of parallel taxiway extension (Taxiway Extension-2) from the existing AV050 apron/taxiway to connect to existing Taxiway “B”. Construction and relocation of the Airfield Lighting Regulator Building that helps the tower control the airfield, and construction of a new taxiway (Taxiway Extension-1, which will function as a taxi lane at its end-state) that will connect Taxiway “T” to the AV010 Aircraft Parking Apron. The new Taxiway Extension-1 and Extension-2 shall be PCC paved with Asphalt shoulders. The AC shoulders on Taxiway Extension-2 shall be removed upon Phase-2 construction. The new Regulator Building will be of concrete construction meeting all codes for the type of structure. New Constant Current Regulators (CCRs) shall be installed and made operable before demolition of the existing Airfield Lighting Regulator Building. All equipment in the new Regulator Building shall be new. Equipment in the old Regulator Building shall be turned over to DPW.

Contract Completion Date for this project was Dec. 2019. But due to the late release of the Phase II portion of the parking apron and redesign efforts to align new parking apron correct distance from centerline of runway, this project will be delayed until at least the end of 2021. CCR Building is scheduled to be turned over on Feb. 2019.



Rendering of Type II Aircraft Parking Building



AV062 New Airfield Lighting Regulator Building

C4I050, ROKFC-in-Kind, MI Field Station

This \$11.1 million project Zoeckler Station administration, Training and Support Facility consisting of a 2-story building that will primarily serve as administrative offices for the 501st MI Brigade and their contractor personnel. The contract was awarded to Fine Construction Co. by Ministry of National Defense – Defense Intelligence Agency in late Sept. 2015.

This building will provide support space to the neighboring Black Hat Project. The facility is a steel structure with

re-bar concrete (Type II- B Construction) that is 3,479 square meters (1st floor 1,733 square meters, 2nd floor 1,735 square meters) which will hold 68-person + 100 students. Also, there are PCC paving (service yard) and Asphalt paving parking (167 parking stall) areas, bicycle shelter, trash enclosure, and gazebo.

The original Contract Completion Date for this project was scheduled for Aug. 2017, but due to differing site conditions (Relocation of Graves and C4I utilities) and now resolving HVAC related issue that will extend this project to April 2019.



Rendering of HQ041 Duplex Company Operations, Zoeckler Station

HQ041 ROKFC-in-Kind, Duplex Company Operations, Zoeckler Station

This project was awarded on Aug. 11, 2017 with 720 calendar-day construction duration and about \$7.5 million of contract amount; and is to construct a

standard design duplex Company Operations Facility (COF) with Integrated Admin/Readiness Module for two companies, two attached 100-person readiness modules, and two 100-person covered hardstands. The administrative module includes private offices, training rooms, space for storage, shred office space for platoons and consolidated utility space to serve the entire facility. The

readiness module includes readiness bays to provide accommodation for individual combat equipment, locker of all unit personnel. Company Operation Facility and Covered Hardstand have the floor areas 22,195 square feet and 3,358 square feet respectively and Company Operation Facility is one story building with mezzanine.

The finished facilities consist of loading/service areas, information system, fire protection and alarm systems, Intrusion Detecting System (IDS), and Energy Monitoring Control System (EMCS) connection at USAG Humphreys Installation. Project is slightly delayed due to unforeseen site condition and late site release.

The project is scheduled to be completed in Oct. 2019.

HQ050A YRP, Type II Aircraft Parking Apron Surface

The scope includes demolition of existing taxiways shoulders; demolish



C4I050 MI Field Station

and relocate electrical and communications conduit, manholes, handholds and existing storm drainage. Install new concrete apron to include a 15-meter wide primary taxiway. Install 7.5-meter asphalt shoulders on the north side of the new taxiway. Install storm drainage culverts, manholes, concrete trench drains and inlets. Install parking spots for one grounding point, six tie downs for rotary wing aircraft and fixed wing aircraft, with signage and striping. Install new fire protection main, with fire hydrants on the north side of the apron.

KC-PMC is the QA-Facilitator for the contractor Mi Dong Engineering & Construction Co. Ltd. The contract value for this project is \$7.76 million, and it is 74 percent complete with a CCD of May 18, 2018, but under suspended since Oct. 2017 due to quality issue.

HQ090 YRP, Consolidated Fire Support Headquarters

This project provides for construction of a multi-story Battalion/Brigade level consolidated fire support headquarters facility to accommodate the administrative and emergency operation requirements of Area I organizations relocating to USAG Humphreys.

Primary facilities (115,922 square feet) include administrative/operations areas with a Brigade Operations Center (BOC), Controlled Access Area, Secure document area, Network Operations Center (NOC), classrooms and conference rooms. Construction includes redundant mechanical and electrical systems with backup power, POV parking (39,978 square feet), loading/service areas, building information systems, fire/smoke protection/detection and alarm systems, Intrusion Detections Systems (IDS) installation and Utility Monitoring Control System (UMCS) connection. Supporting facilities include underground utilities and connections, security and access lighting, parking, paving, walks, curbs, gutters, bicycle racks, fencing, dumpster pad/trash enclosure, storm drainage, exterior information systems, landscaping and signage, fire protection, site improvement and fuel storage tank.



HQ050A, Aircraft Parking Apron PCC Paving



Rendering of HQ090 Consolidated Fire Support Headquarters

UEH050 ROKFC-in-Kind, Unaccompanied Enlisted Personnel Housing

This project consists of three, eight story barracks buildings and the combined exterior civil works and utilities for both UEH050 and UEH051 sites. Each building will be able to accommodate 288 unaccompanied enlisted Soldiers providing them their own room with a shared common space.

This project was awarded on May 26, 2015 to Hanwha Engineering and Construction at a cost of \$74.8 million and was turned over on Dec. 10, 2018.

UEH051 ROKFC-in-Kind, Unaccompanied Enlisted Personnel Housing

This project includes three 302-personnel barracks for Unaccompanied Enlisted Personnel.



Rendering of UEH110 Unaccompanied Enlisted Personnel Housing



UEH110 UEPH

panied Enlisted Personnel. Each barracks has eight floors; the combined total floor area of the three Barracks is 32,616 square meters. These three barracks will house a total of 906 soldiers. This construction excludes site work. The adjacent contractor for UEH050 will finish all exterior site work after the completion of this project.

The project was awarded in May 2015 to Hyundai E&C at a cost of \$59.5 million. FED has provided construction surveillance. The project has been completed and turned over to DPW on Sept. 4, 2018.

UEH110 ROKFC-in-Kind, Unaccompanied Enlisted Personnel Housing

The project site is located in between 9th and 11th streets and main access way will be from 9th street and E Avenue. The project is to construct three 302-person eight-story Unaccompanied Enlisted Personnel Housing (UEPH) per the current Army Standard for UEPH at USAG Humphreys and each barracks has floor area about 120,000 square feet. The project was awarded in Sept. 2016 with a construction cost of \$96 million. The UEPH barracks will include private modules with individual living/sleeping rooms, and each room shall contain closets and a combination of shared kitchens and bathrooms to be shared by a maximum of two people. Barracks will



UEH050 Unaccompanied Enlisted Personnel Housing



UEH051 Unaccompanied Enlisted Personnel Housing

include four elevators per building: one freight elevator and three passenger elevators.

FED is providing construction surveillance. The project is scheduled for completion in Aug. 2019. The contractor is to work on finishing works and measurements of flow rate and balancing for HVAC and plumbing system (TAB) & Commissioning the barrack towers. The project is approximately 85 percent complete.

OS060 ROKFC-in-Kind, Army Regional Correctional Facility

This \$15.5 million project is to construct a new Correctional Facility. The contract was awarded to Wooseok Construction Co. by Ministry of National Defense - Defense Intelligence Agency in Nov. 2018. This single-story building facility will replace the existing facility, built in 1975, which fails to comply with requirements of various current construction criteria and regulations, such as Army Regulation (AR 190-47), Army Correctional Facility and etc. The primary correctional facility will



Rendering of OS070 Small Arms Ammunition Warehouse

include two distinct controlled areas with special construction requirements. One of the two controlled area will include 40 individual prisoner cells divided into five blocks - male, female, pre-trial, and post-trial, etc., and the other will include a controlled access sally port entrance, indoor recreation area, prisoner intake area, central master control center, watch commander's office and a dining facility

(DFAC) with a full kitchen. Outside the controlled area will include management and administration office space, large multipurpose room to be used for visitation and religious services and staff classroom, etc. An outdoor recreation area will be provided. This facility will be surrounded by a single 12-foot high fence system with 3-foot top guard/overhang.



Rendering of OS060 Army Regional Correctional Facility

OS070 ROKFC-in-Kind, Small Arms Ammunition Warehouse

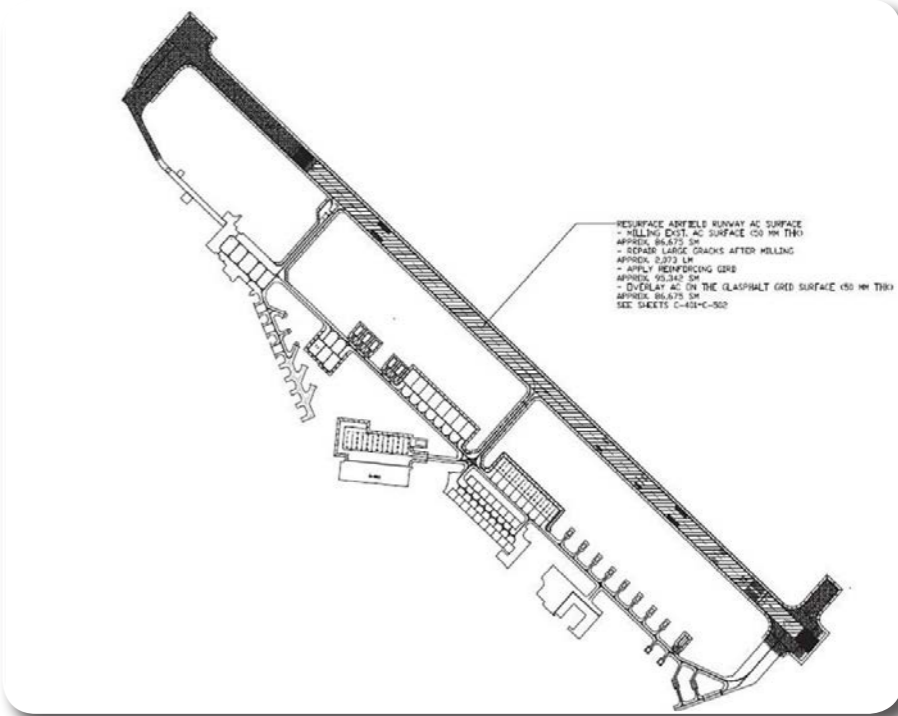
This \$ 2.1 million project is to construct a new Small Arms Ammunition warehouse.

The contract was awarded to Yuil Engineering & Construction Co., Ltd. by Ministry of National Defense - Defense Intelligence Agency in Aug. 2018.

This single-story building facility is designed based on the authorized gross are of 465 square meters. IAW DoDM 6055.09-M, HD1.4 Ammunition stored in the facility is classified as moderate fire, no significant blast of fragment. The project is located in the Parcel 2A land development project of USAG Humphreys and is sited on a rectangular shaped parcel of land, facing west towards existing Wash facility and driving training course and the site is accessible from A Avenue via existing and AC paved road to the south. The facility will be secured with a 2.1-meter high FE-6 Chain link perimeter fence with a 6.1-meter clear zone on the outside of the

chain link fence IAW PSA Requirements. This facility will include interior security cages to segregate stored material into individual unit storage spaces which will conform to the category Hazards

Division 1.4 requirements for training ammunition outlined in Department of Army Pam 385-64. CCD of this project is Oct. 2019.



JOC, Repair and Resurface Airfield Runway



FY18 Area III Job Order Contract

JOC, FY18 Area III Job Order Contract

This contract is an indefinite delivery, indefinite quantity, firm fixed price Job Order Contract (JOC) for maintenance, repair, renovation, and minor construction projects at various locations of U.S. Army installation in Area III & IV. This contract involves a wide variety of individual construction-type projects by issuance of task orders. In this fiscal year, 16 each task orders were awarded and 10 each projects were done in this fiscal year, USAG Humphreys. The combined cost of all awarded task orders in this fiscal year is about \$10 million.

IDIQ

In the past 12 months the following activities directly related to USAG Humphreys Department of Public Works Sustainment, Renovations, and Modernization program.

The Solicitation and Awarding of two design build projects to enhance the road system of the Key Street/CPX Gate environment (\$3.5 million) in addition

to the Morning Calm Convention center (\$1.87 million) combined contract value of \$5.37 million. An additional road repair project was also awarded in June with a contract value of \$2.1 million. These three road renovation contracts will provide over 6 miles of newly paved roads, providing a smoother and more uniform traffic flow pattern around the intersections of the CPX West Road and Key Street, in addition to providing a straight drive from Key Street to the Morning Calm Convention Center. Various Traffic lights will be put on existing timing / monitoring system to further reduce traffic related problems. Various Infrastructure enhancements with these three project such as the installation of underground electrical High voltage lines, upgrading and installing new storm drainage lines, rerouting sewer and water lines will further increase the safety to drivers and pedestrians as well.

The establishment of nearly 300 parking spaces near the Morning Calm Convention center will enhance the area into a more park like setting. Not to be outdone, AAFES will be upgrading the Cable TV delivery system in surrounding barracks in the Freedom Park Area.

In late September a multi-million dollar contract was let for upgrading the Airfield Lighting and additional Drainage structure improvements in addition to installing a new high pressure water line for firefighting capabilities on Desario Field. The AFFF systems in 8 of the 11 hangars was brought into environmental and fire protection compliance, with the three remaining buildings scheduled for completion in early July 2019.

New Elevators were installed in Building 302 which is being renovated at this time in addition to a pair inside of the Army lodge.

New Air conditioning units will be installed in the electrical rooms starting in May in Army family Housing Buildings 5101, 5102 and 5103 in order to bring the electrical rooms into compliance with AR 420 -1 Housing requirements.

Building S-726 is receiving a \$1 million upgraded for structural and seismic requirements with a completion date of early July 2019 and will be further renovated by DPW to the latest codes and requirements for occupancy in early 2020.



FY18 Area III Job Order Contract

Osan Air Base Projects

ROKFC-in-Kind, Main Runway Repair

The repair of the Osan Air Base Main Runway was awarded on Sept. 30, 2016, as a ROKFC-in-Kind project for a total of \$51.2 million. The Osan Main Runway is the Air Force's oldest runway, which was built in 1952, and has supported countless operations from the Korean War to today. This project is a much awaited and much needed full replacement by un-bonded PCC overlay to the entire runway surface, including asphalt shoulders, airfield lighting system, and the runway overruns. Due to the base's requirement to maintain an active runway throughout the construction, this project is being built in phases with each phase being completed in its entirety before moving to the next phase.

Phases 1 and 2 on this project began with the construction of two temporary taxiways located at each end of the runway to provide all aircraft with access to the Second Runway (completed in 2015) during construction. Phase 3 - Construction on the Main Runway - began in late Dec. 2017. At the end of 2018 the runway sub-drain system is 92 percent complete, the concrete runway surface is 52 percent complete, and Taxiways B and G are both more than half completed.

The expected completion date for the entire project is Aug. 20, 2020.

ROKFC-in-Kind, Construct F-16 Quick Turn Pad

The construction contract for this ROKFC-in-Kind project was awarded on June 15, 2017 for \$4.5 million. This project will build an aircraft pad to park six F-16's with the ability to taxi behind

parked aircraft and in close proximity of each other. The end result will be substantial reduction in manpower and travel time, with estimated 4,000 man hours per year saved. In addition to the PCC concrete pad, this project will provide flood lighting to support night operations, steel revetments, line markings, and jet blast deflectors. These jet blast deflectors are concave corrugated sheet metal structures designed to deflect the force of jet blast wind and fumes upwards, in order to reduce the damaging effects of aircraft engine fumes on personnel and the environment.

Construction began in Dec. 2017 and is scheduled for completion on July 13, 2019.

ROKFC-in-Kind, Construct 694 ISRG Secure Storage Facilities

The construction contract for this ROKFC-in-Kind project was awarded on July 19, 2016 with construction completing in Nov. 2018.

This \$5.3 million project constructed two Secure Storage Facilities approximately 1900 square-meter for the 694th Intelligence, Surveillance and Reconnaissance Group (ISRG). During 2018, the contractor completed the construction and turned over the facilities to the customer. The contractor also completed exterior soil fill, sodding, and



F-16 Quick Turn Pad, partially completed west pad and revetment

constructed a parking area. The majority of the work during this year was interior work. This work included completion of construction of the administration office spaces, interior electrical, fire suppression, and lighting systems, commissioning, testing, adjusting, and balancing.

ROKFC-in-Kind, 607th ASOG/SOCKOR Facility

The 607th Air Support Operations Group (ASOG) and Special Operations Command Korea (SOCKOR) project was awarded on Aug. 8, 2016 and is scheduled for completed in Nov. 2018. The scope of this \$17 million project included the demolition of 5 buildings along with various other small structures and the construction of an administration building and a Vehicle Storage/Special Operations building. The Vehicle Storage building includes a 100-foot tall parachute drying tower. Work was completed in Nov. 2018 and the end user has moved in and is occupying these new facilities.

ROKFC-in-Kind, Aircraft Fuel Maintenance Dock

The construction contract for this



SSA and Admin Building

ROKFC-in-Kind project was awarded on Sept. 8, 2016. This \$15 million project will be the primary fuel system maintenance dock at Osan Air Base. The current facilities are inadequate which cause a maintenance backlog of F-16 and A-10 aircraft. The new facility will be larger and better equipped to ensure our fighter aircraft are able to receive critical maintenance.

The facility includes safety systems

such as vapor detection, splinter and chemical protection, and better fire protection to ensure that the aircraft and crews are protected.

During 2018, the contractor completed steel framing, conduit and piping for utilities, and completed most of the mechanical and electrical systems. The Aircraft Fuel Maintenance Dock is scheduled for completion in summer 2019.



607th Air Support Operations Group (ASOG) and Special Operations Command Korea (SOCKOR) Facility

ROKFC-in-Kind, Construct Munitions Storage Area (Alpha Site)

The construction contract for this ROKFC-in-Kind project was awarded on Sept. 30, 2016 with construction completion scheduled for July 19, 2020. This \$142.4 million project is to construct 46 Large and 9 Small Munitions Storage

facilities. Currently the project is 47 percent complete. Supporting facilities include inert storage facilities, inert storage ordinance (ISO) pads, entry control, and defense fighting position facilities. During this year contractor has continued to place engineered fill and surcharge throughout the site. Almost 98 percent of fill placement has been completed. Approximately 5 million of soil has been placed throughout the project site, raising

original elevation of 7 meters above mean sea level (AMSL) to 11 meters AMSL. The contractor has also completed 50 percent of the precast concrete walls and roof panels for the large munitions magazines. The contractor has also completed pile driving (~400 piles, 11-20 meters long, 450 millimeters in diameter) for retaining wall foundations and casting approximately 400 meter long retaining walls. In the spring of 2019, the



Rendering of Munition Storage Area (Alpha Site)



Forming rebar for retaining wall



Precast panel production

contractor will remove the surcharge soil and start driving indicator piles for the large munitions facilities.

ROKFC-in-Kind, Morin Gate and Base Perimeter Fence

The construction contract for this ROKFC-in-Kind project was awarded on Oct. 30, 2015 with construction completion scheduled for early 2019. This \$38.5 million project is to construct access control facilities at the Morin Gate, which include a visitor control center, vehicle inspection canopies with guard booths, gate house, over-watch building, new entrance roads, and replacement of 5,629 meters of existing boundary/perimeter fencing with reinforced concrete perimeter wall fence. Also included are 19 observation towers at various intervals along the perimeter fence.

During this calendar year, the Morin Gate facilities have been completed and turned over to the customer. The exterior

fence and castle wall has been completed but it is still in deficiency correction stage and should be turned over to the customer in the spring of 2019. This project will substantially improve the security of the base with an access control system and enhanced anti-terrorism force protection measures that will ensure the safety and deterrence of security threats to airmen stationed at Osan. As of Jan. 2019, the construction is 99 percent complete.

YRP, Air Freight Terminal

The construction contract for this ROKFC-in-Kind project was awarded on Sept. 29, 2017 and the completion is scheduled for Nov. 2020. This \$29 million project will provide a cargo terminal and administration building, vehicle maintenance and storage building, fire protection and alarm systems, energy monitoring control system (EMCS) connection, and building information system.

This project includes demolition of existing buildings, site development, utilities and connections, back-up power generator, lighting, paving, parking, walks, curbs and gutters, storm drainage, information system, landscaping and signage. Currently, the contractor is working on concrete placement in the cargo terminal and administrative building areas.

ROK MND/YRP, VIP Hangar and Parking Pads

VIP Hangar and Parking Pads construction project is a FY14 Yongsan Relocation Plan project for an Army using unit. It was awarded in Feb. 2017 and began construction in April 2017.

This is an \$8.7 million project to renovate hangar buildings 1161 and 1172, and renovate part of building 1187 administrative office areas. The hangars will provide Aviation Unit Maintenance and Aviation Intermediate Maintenance for C-12U and C-12J fixed wing aircraft,

and other aviation support functions. The project's work scope consists of installation of a high expansion foam type fire suppression system, a one ton hoist crane, demolition of existing berms, replacement of existing ceiling and metal roof, upgrading existing mechanical system, and installation of electrical and fire alarm systems.

Over this past year, interior office spaces and new mechanical equipment were constructed. In addition, the ceiling and metal roof were replaced, and the fire suppression system pump building and equipment were near completion.

The current construction complete date is scheduled for July 13, 2019.

US SRM, Renovate SQ Operations B1192

The construction contract was awarded for \$4.5 million in April of 2018.

The project is to renovate Squad Operations facility building # 1182. Work includes repair and repainting of interior walls, replacement of floor finishes and ceilings, replacement of interior and exterior doors. Other work includes repair of bathrooms and to expanding women's restroom with shower booth, installation of water fountains, renovation of offices and briefing rooms, replacement of main power distribution systems and fire detection/alarm systems. The project is approximately 26 percent complete.

Currently, the contractor is working on interior office areas by installing metal stud walls and interior electrical conduit and wiring.

DoD Medical MILCON, Hospital Addition and Alteration

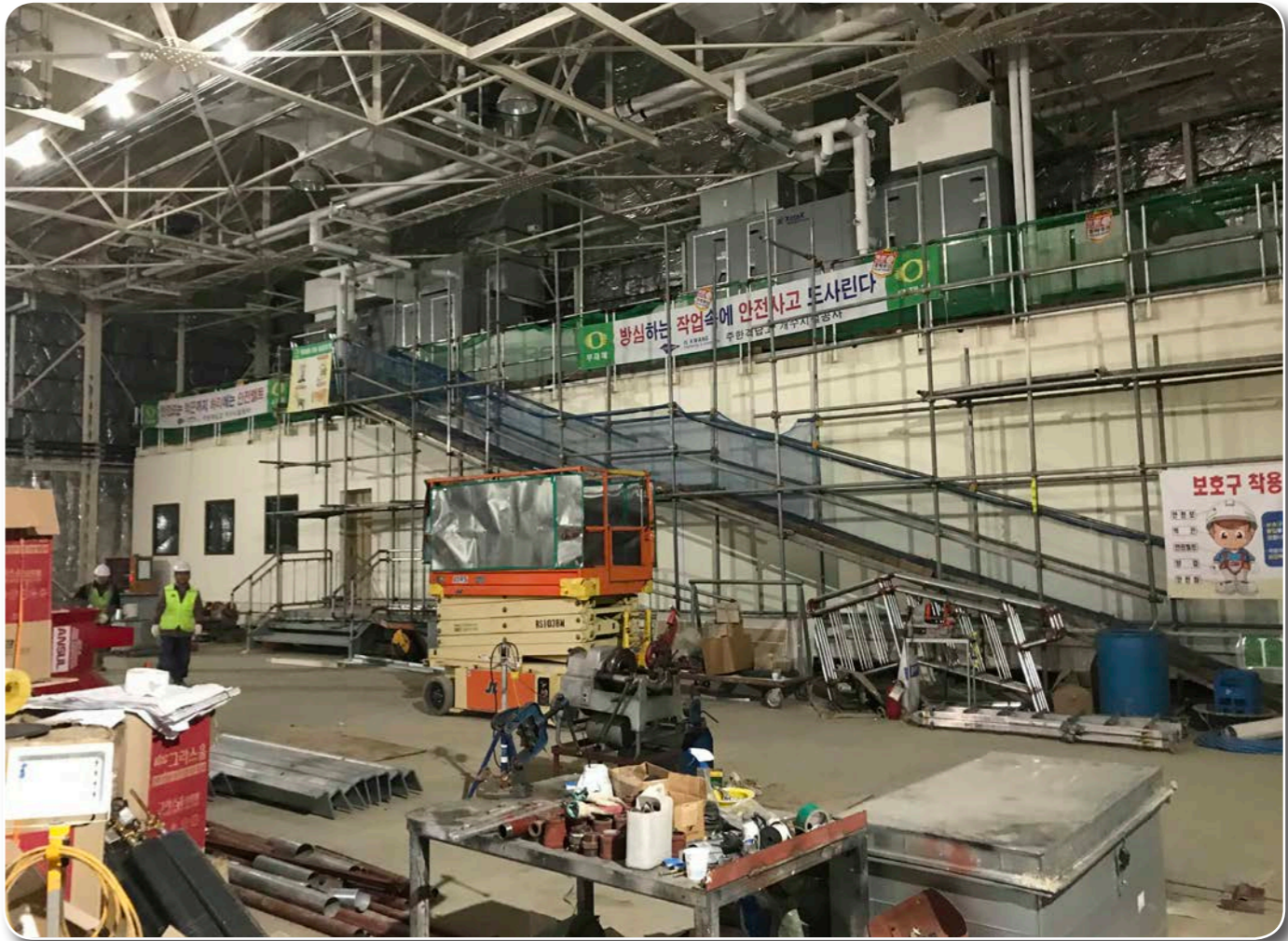
The construction contract for this

DoD Medical MILCON project was awarded on Sept. 28, 2013 and is scheduled for completion in July 2019.

This \$22.3 million project will add approximately 26,000 square feet to the existing Osan Air Base hospital (about 27 percent increase in size) and renovates approximately 24,000 square feet. The added space will provide new or renovated areas for family practice, pediatrics, OB/GYN, optometry, immunizations, physical therapy, dental clinic, warehouse, and administrative support functions for the 51st Medical Group. The addition to the hospital (phase 1) was completed in Dec. 2016. Over the past year, the contractor continued work renovating areas within the existing Hospital, creating new spaces for Oral Surgery, Immunizations, and Records. Phase 3 was completed in Jan. 2019. The project is 96 percent complete overall and work has started in the 4th and final phase.



607th Vehicle Storage Building



Hangar B1172 Interior



Interior of Osan Hospital (Before)



Interior of Osan Hospital (After)

Air Force IDIQ, Repair Fire Protection and Electrical Power System, B843

The construction contract was awarded on Sept. 29, 2016 and is scheduled for completion in July 2019. This \$2.7 million project will add a fire detection and fire suppression system to Maintenance Hangar Building 843, which is used to inspect, maintain, and perform corrosion control on highly sensitive reconnaissance aircraft. The contractor has installed fire sprinklers, constructed two new buildings to house the foam tanks and fire pump equipment, and upgraded electrical systems in the hangar and office area. The contractor will complete the fire-suppression system connections and test the new systems in 2019.

O&M, Repair Fire Protection for Pump House B846

The construction contract for this operations and maintenance project was awarded on Aug. 21, 2017 and was completed in Dec. 2018.

This \$450 thousand project repaired the fire suppression system in

Pump House Building 846 that supports aircraft maintenance shelter Building 851. The fire sprinkler and foam systems in Building 851 will be replaced in a future project.

O&M, Repair Fire Protection for Aircraft Shelter B849 and Pump House B848

The construction contract for this operations and maintenance project was awarded on Aug. 21, 2017 and is scheduled for completion in 2020. This \$3 million project will repair the fire suppression system in pump house B848 that services aircraft shelter Building 849. Building 849 is a dual-bay hangar that is used to inspect, maintain, and perform corrosion control on highly sensitive reconnaissance aircraft. In addition to installing an improved fire-fighting foam system, other necessary electrical, mechanical, and architectural renovations will be made to Building 849. The contractor completed demolition work of major utility lines as well as Building 848. The contractor is restricted to only perform work in one bay of the hangar at a time in order to maintain mission-capabilities for the user in this occupied hangar.

Air Force Job Order Contract (JOC)

This year, eight new JOC projects were awarded for a total contract amount of \$10.2 million. The scopes of work for these projects are diverse and included repair of hardened aircraft structures, repair roll up doors, repair roofs, install airfield gates, repair munitions lighting system, and others. In 2018, work was completed on many task orders that were awarded in the previous fiscal year which included repairs to hardened aircraft structures, dormitories, repairs to various sewer lines, and repair seven munitions facilities.

Airfield Paving IDIQ

In 2018, the Airfield Paving IDIQ contractor Yibon performed concrete slab, spall, and crack repairs on the runway, taxiways, and in aircraft parking areas under multiple task orders. The contractor also repainted many of the line markings on the airfield.

ROKFC-in-Kind, SOCKOR Contingency Operations Center and Barracks, Icheon

The construction contract for this ROKFC-in-Kind project was awarded on Sept. 29, 2017, and the completion is scheduled for Nov. 2020. This \$29 million project will provide subterranean operations center, barracks with hygiene facilities, dining area/company headquarters, a fence enclosing the facility, and security lighting to illuminate the compound. The barracks portion of the facility will consist of eight open bays designed to accommodate 20 personnel each under deployed standards, and hygiene facilities to accommodate both male and female personnel, and a lounge area on each floor. The subterranean operations center will consist of an operations center, individual offices, conference room with video teleconference capability, security office, latrine facilities, and break room. The facility will be equipped with fire suppression system, mass notification, intrusion detection system, back up electrical generation, and energy monitoring.

Contractor is preparing to construct a field office, material laydown area, and temporary fencing.

FY17 OMAF, Repair HVAC Aerospace Ground Equipment Maintenance Facility, Suwon Air Base

This project was awarded to Korea Engineering Consultants Corporation on Sept. 2, 2017 in the amount of \$1.3 million. The scope of this project includes replacement and upgrades to the HVAC system, roof replacement, replacement and upgrades to fire protection piping and fire alarm/mass notification systems, and interior electrical, mechanical, plumbing, and architectural repairs. Over the past year, work was completed and the building was accepted and placed into service in Oct. 2018.

ROKFC-in-Kind, Special Operation Forces Operation Facility B-606, K-16

The construction contract for this ROKFC-in-Kind project was awarded on Sept. 29, 2017 and the completion is

scheduled for Nov. 2020. This \$29 million project renovates Building 606 in the form of repairs, upgrades, and additions to this existing facility at K-16. Work includes an HVAC system for office area, interior electrical, plumbing, interior partitions, roof, structural elements, insulation, fire protection, fire alarm system, and architectural modifications for future mission requirements. The contractor is currently preparing to construct a field office, material laydown area, and temporary fencing.

JOC, Seoul Project Office

In the year 2018, one JOC task order was awarded for amount of \$0.4 million. The scope of this project is to install concrete personnel protection bunker with drainage & waterproofing system. In 2018, work was completed on many task orders that were awarded in the previous fiscal year, which included replacement of AC units at various buildings in Yongsan and access roadway at Detachment "L".



Repair of Airfield Pavements

Area IV Projects

MILCON, Army Family Housing Tower 1

This \$44.8 million project is the first of the four planned Army Family Housing (AFH) Towers at Camp Walker to alleviate the on-post housing shortage. Currently, of the enduring AFH requirement for 410 dwelling units, there are only 72 dwelling units available on post. Constructing this tower will help support the readiness requirement and provide adequate housing for soldiers and their families assigned to U.S. Army Garrison Daegu. The tower will provide 90 apartments (four 5-bedroom units, twenty-six 4-bedroom units, and sixty 3-bedroom units) for Company Grade Officers and their families. It includes a parking structure, neighborhood amenities and supporting infrastructure at Camp Walker. Construction started in Aug. 2015 with scheduled completion in Feb. 2019.

MILCON, Army Family Housing Tower 2

This \$44.2 million project is the second of the four planned Army Family Housing (AFH) Towers to be constructed at Camp Walker. This tower is a site adapted design which includes the same amenities as AFH Tower 1. Without the new AFH Towers, the personnel will be forced to reside in off-post housing which will degrade mission requirements due to the dispersion of key personnel. Construction started in Sept. 2016 with scheduled completion in July 2019.



LPP-in-Kind, H-805 Relocation

One of the few Land Partnership Plan (LPP) in-Kind project in Area IV, the \$23.6 H-805 Relocation project consists of four project sites, two in Camp Walker and 2 in Camp Carroll. Site 1 in Camp Walker is the residual of what will remain as U.S. property at H-805. This residual consists of a limited use helipad, helicopter parking pad, and a Vehicle Maintenance Facility. Site 2 in Camp Walker, Parcel 2, is located at a new property given by the ROK Government as a replacement for H-805. Located along the east side of the Camp Walker, behind AAFES/PX building, this area will be used to store 40-foot containers. In Camp Carroll, a new H-832 helipad, parking pads for CH-47 helicopters, POV parking, and a 2-story Flight Operations Center was built which will be utilized by the Airfield Division that were originally located in Camp Walker. Lastly, a new land farm was relocated in Camp Carroll. The project started in Dec. 2015 and all construction is complete with an exception to parcel 2 and the phase II access control point with scheduled completion in Oct. 2019.

ROKFC-in-Kind, Special Operations Facility and Barracks

Located at the Commander Fleet Activities Chinhae (CFAC), a U.S. Navy installation, the \$21+ million Special Operation Forces (SOF) project addresses Special Operation Command-Korea (SOCKOR) requirement to provide a self-contained and isolated Navy SEAL Operations facility. The project includes multipurpose operational facility support to the

Navy Special Warfare (NSW) Group 1, a Navy Explosive Ordnance Disposal Detachment, and other Maritime Crisis Response Forces. The project includes a warehouse, vehicle maintenance bay, equipment and weapons storage, administrative offices and living space. The facilities are necessary to accommodate SEAL platoon and forces allocated to SOCKOR which are currently unavailable. Key features include a joint tactical operations center (JTOC), operations floor capable of 24-hour operation if necessary, an operational gear storage room, pallet high bay staging area, boat maintenance shop with 10-ton top running crane, battery lab, SCUBA maintenance shop, O2 safe room, tank charging stations, compressor room, and a physical training facility. Barracks facility comprises three full levels and will accommodate up to 48 personnel which will include, lounges, bathrooms, and kitchen space. This project was awarded in Aug. 2016 and is scheduled to be completed in March 2019.

ROKFC-in-Kind, Upgrade Electrical Shore Power System

This \$3.6 million project located at the Pier 11, ROK Navy Base at Chinhae will provide a new shore power system to support newer model fleets. Current shore power is 400A, 480V, and newer ships need 450A, 4160V. The upgrade includes new transformers, switchgears, power cables, receptacles, and metering system. The project upgrades existing transformers and modifies the substation to accommodate the new equipment. The project was awarded in Aug. 2017 and is scheduled to be complete in July 2019.



Special Operations Facility and Barracks, Chinhae

ROKFC-in-Kind, Upgrade Electrical System

This \$19.9 million project includes upgrades to the electrical sub-station, electrical distribution system, and utility lines at Camp Henry and George. This project was awarded in Sept. 2016 and is scheduled to be completed in Dec. 2019.

ROKFC-in-Kind, Operation Complex

This \$6.8 million project located inside the ROK Airbase in Daegu includes renovating five existing buildings and constructing a brand new Vehicle Maintenance Facility along with associated utilities and a parking lot. The Special Operations Command – Korea (SOCKOR) will be utilizing the buildings and VMF to perform mission critical operations in the southern portion of Korea. The project was awarded in July 2016 and is scheduled to be completed by June 2019.

ROKFC-in-Kind, LSA Barracks #1

This \$12.8 million project is the first of three planned life support area (LSA) 400 person (PN) open bay barracks located at Camp Mujuk, Pohang. The new three-story barracks includes a reinforced concrete structure, exterior insulation finish system, protected metal roof system. The unique structure is divided into six occupancy zones to meet user requirements. The barracks includes various room sizes to include 5PN, 10PN, 30PN, 45PN, and 50PN rooms. Camp Mujuk hosts multiple exercises annually for which training units are housed in small modular general purpose tent systems or container housing units. The project provides a hardened structure for more efficient and adequate life support for marines during exercises and contingency. The first barracks was completed in Oct. 2018.



LSA Barracks #2, Mujuk

ROKFC-in-Kind, LSA Barracks #2

This \$13.3 million project is the second of three planned 400 person open bay barracks located at Camp Mujuk, Pohang. The project is a site adaptation of the LSA Barracks #1 design. The second barracks includes two retaining walls and improvements to existing roadways leading into and around the site. The project is scheduled to be complete in June 2019.

ROKFC-in-Kind, LSA Barracks #3

This \$14.2 million project is the third of three planned 400 person open bay barracks located at Camp Mujuk, Pohang. The project is a site adaptation of the LSA Barracks #1 design. The third barracks includes a retaining wall, significant cut and fill



LSA Barracks #1, Mujuk



LSA Barracks #3, Mujuk

requirements and improvements to existing roadways leading into and around the site. The project is scheduled to be complete in Sept. 2020.

ROKFC-in-Kind, Replace Bulk Fuel Transfer Pipeline

This \$3.7 million project for the US Marine Corps Forces Korea and Defense Logistics Agency is located on the ROK Marine 1st Division Base at Pohang and included the new construction of an approximate 3000 meter long, 150-millimeter (6”) diameter schedule 80 polyethylene coated carbon steel fuel transfer pipeline that connects the pump house (located in the existing bulk fuel tank farm) to the operational tanks (located in the airfield).

The project included associated valve pits, shutoff/routing valves, manholes, low point drains, high point vents, surge arrestor, and a pig cleaning system. The new pipeline included a thermoplastic resin coating, a sacrificial anode cathodic protection system, differential thermal relief, and required hydrostatic testing and radiographic inspection of all welds prior to burial. The project replaced the existing pipeline that was taken out of service due to deterioration and provides adequate, safe, and efficient transfer of aircraft fuel to support operational requirements for the installation. The project was completed in March 2018.

ROKFC-in-Kind, Marine Air Ground Task Force Operations Center

This \$42.6 million project is a four-story Operations Center which provides a forward operating Headquarters Facility



Marine Air Ground Task Force Operations Center

for the III Marine Expeditionary Force (MEF). The facility will provide working spaces for up to 403 personnel.

Key features include an operation center with watch floor, Commander’s Battle Cabin, a secured operation center with server room, Communication Security Office and vault, health services center and aid station, Contamination Control area, and Non-tactical and tactical parking. The project is scheduled to be completed in Aug. 2020.

ROKFC-in-Kind, Battery Shop

This \$3.2 million construction project provides a new Battery Shop at Camp Carroll for the U.S. Army Material Support Command-Korea (MSC-K). The new structure is a 10,000-square foot standard design battery maintenance facility to include lifting systems, built-in equipment, and required shop and warehouse areas.

The existing battery shop that was used by MSC-K was operationally insufficient, impacting overall maintenance turnaround time. The new Battery Shop increases the turnaround time to process batteries, and thus increases vehicle fleet readiness. This project was completed in June 2018.

ROKFC-in-Kind, Sustainment Facilities Upgrade, PH-1 DLA Warehouse

This \$52 million construction project includes the construction of a 25,000+ square meter general purpose warehouse and 20,000 square feet of HAZMAT/POL storage isolated from the main warehouse. The project includes demolition of several existing buildings, a new paved truck access road, perimeter security fencing, trucking yard, loading docks, and approxi-

mately 50,000 square feet of covered Pre-Engineered Building (PEB) swing spaces. The project was awarded in Sept. 2017 and is scheduled to be completed in Sept. 2020.

OMA, Repair/Upgrade Communication System, Bldg. 2650, Pier 8

This approximately \$1.0 million Army O&M task order contract upgraded secured and non-secured communication systems for the 837th and 599th Transportation Brigade at Pier 8, Busan. Work included construction in accordance with I3A standards. Previously, the existing communications infrastructure was out dated and unable to support future mission and technology requirements. This work effort replaced the existing cable plant (i.e. cable trays, wiring, duct system, user outlets, etc.) and renovated of the Telecommunication Rooms. The project was awarded in Sept. 2017 and was completed in July 2018.

OMA, Repair/Upgrade Communication System, Bldg. 1211, Camp Henry

This \$1.1 million Army O&M construction contract includes replacement of communication bldg. infrastructure and expanding communication rooms with new HVAC systems. Work also includes modifying operation rooms that will require new raised floor system and repartitioning. The work will be phased since the building operation is critical during the construction. The project was awarded in Sept. 2016 and scheduled to be completed in Dec. 2019.

OMA, Repair/Upgrade Fire Deficiencies, USAG Daegu

At a combined value of approximately \$3.4 million, three task orders addressed fire suppression and fire alarm deficiencies in various buildings across U.S. Army Garrison Daegu, specifically at Camp Henry & Camp Walker, Camp Carroll, Busan Storage Facility & Pier 8.

The repairs and upgrades included replacing jockey pumps, engines, controllers, air compressors, and risers in fire pump rooms. The project also included upgrading the fire alarm system to include new transceivers, fire alarm control panels, operating consoles, smoke and heat detectors, bells, speakers, and programming. All three projects were completed by Sept. 2018. Subsequently, two new OMA Construction contracts were awarded in Oct. 2018 to continue corrections of fire deficiencies at USAG Daegu with scheduled completions in Dec. 2019.

OMA, Repair/Upgrade Sewer System for 4 AFH Towers

This Army O&M task order contract for approximately \$1 million partially upgraded the sewer system along the west/northwest portion of Camp Walker to support the construction of 4 Army Family Housing (AFH) towers. The upgrade in-



DLA Swing Space Building

cluded replacement of 250-millimeter diameter sewer with 350-millimeter diameter sewer piping, an underground lift station, and a septic tank. The project was completed in Feb. 2018.

OMAF, Repair Heating System Bldg. 1013

Located at Kimhae Air Base, this O&M Air Force task order construction contract valued at just over \$1 million included replacement of deteriorated steam boilers, pumps, condensing recovery tank, valves, fittings and associated piping. It also included installation of new water treatment system for heating, replacement of HVAC control system, hot water generator, and power system. The project was completed in Oct. 2018.

OMAF, Repair Communication Facility Bldg. 505

This approximately \$1.0 million O&M Air Force project located at Daegu Air Base, addresses a deteriorating communications facility. Repairs were made to the roof, HVAC system, insulation, electrical power distribution, lighting system, fire suppression system and administrative areas. The project was awarded in Nov. 2017 and was completed in Aug. 2018.

OMA, Repair School Facilities, B-3000 & 3019

This \$1.1 million task order contract is to repair and upgrade school facilities at Camp George, Daegu. The project includes repairing and replacing heat detectors, MNS System and fire alarm control panels. The project also includes a new public announcement system, clock/bell system, and life safety analysis. The project was awarded in Sept. 2018 with

scheduled completion in Aug. 2019.

OMA, Renovate B-330 to Soldier Support Center

This \$1.2 million project is to convert an existing High School Facility, Bldg No. 330 at Camp Walker to a Soldier Support Center.

This facility will consolidate units, organizations, and groups that support USAG Daegu personnel into one building to support such activities as in-processing of new military and civilian personnel to Area IV. Administrative office spaces are provided for the following; SHARP, WIC, Vehicle Registration, ID-Card, D-BIDS, Ration Control, Personnel Property Shipping Office, DPW Housing Division, Career Counselors Office, Driver Testing & Licensing Office, Financial Assistance Office, Army Community Services, Military Personnel Division, American Red Cross, Commercial Travel Office, Soldier For Life (TAP), and CYS Out Reach. This project consolidates all these groups into a single building for efficiency of operations, where previously, personnel seeking assistance from multiple organizations had to go around to various buildings at Camp Walker and Camp Henry. The project is scheduled to be complete in Feb. 2019.

DeCA O&M, Commissary Architectural and Refrigeration/HVAC Upgrade

This \$5.7 million construction O&M project for the defense commissary agency (DeCA) includes the replacement of outdated mechanical and refrigeration equipment and systems at the Commissary on Camp Walker. This includes the refrigeration system, Refrigeration Monitoring and Control System, compressor racks, condensing units, unit coolers located in the walk-in freezers and coolers, and all associated refrigerant piping. Replacements include all HVAC systems and equipment, including air handlers, chillers, condensing units, dehumidifica-

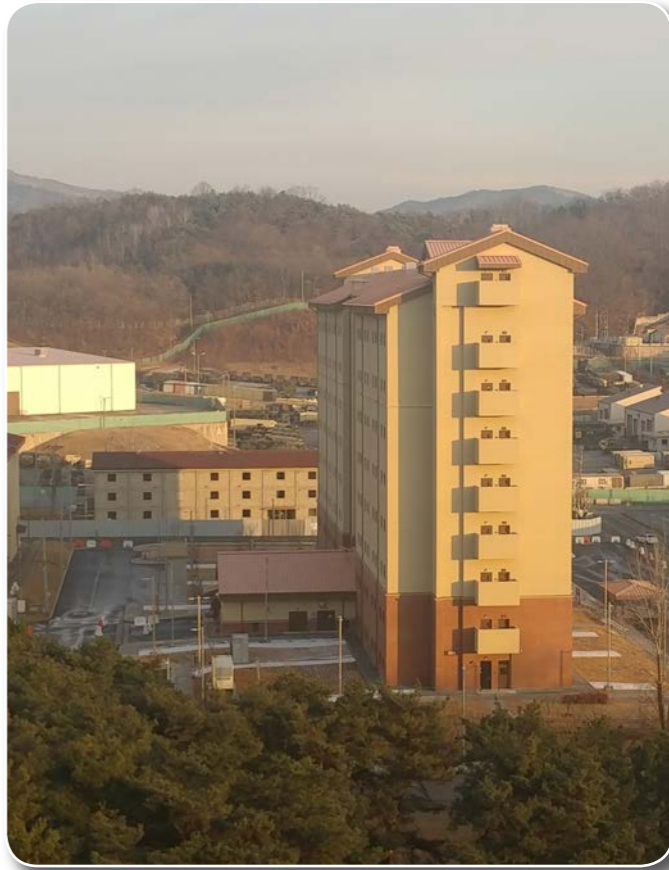


YRP, Co Ops HQ, Site A

tion units, controls, piping, ductwork and diffusers as needed. Architectural work includes upgrade to the interior finishes in the sales and Administrative areas to include new décor, new flooring, and ceiling repair/replacement. Construction includes additional freeze storage adjacent to the existing freeze storage unit and expanding the existing deli/bakery into the current storage area. The project also includes renovating the produce storage and preparation area. The project was awarded in Nov. 2018 and is scheduled to be completed in Sept. 2020.

YRP, UEPH BN & Co Ops Headquarters

This \$54 million project located at Camp Carroll is split into two sites that contain an 8-story barracks for Unaccompanied Enlisted Personnel Housing (UEPH) (Site B) and a 4-story combined Battalion Headquarters for the 6th Ordinance Battalion and 25th Transportation Battalion (Site A). The Battalion Headquarters will help support command operations conducting mainly administrative functions and has separate Readiness Modules with gear lockers for field exercises. The Battalion Headquarters will include a controlled vehicle parking lot, loading and service areas, and a bicycle rack shelter. The Barracks will provide 2 bedrooms (1+1) sharing a kitchen and bathroom. Along with the building, there will be a total of 54 parking spaces, bicycle racks, equipment and dumpster enclosure. This project was awarded in Sept. 2015 with expected completion in



YRP, UEPH BN, Site B

Kunsan Air Base Projects

CY15 ROKFC-in-Kind, New Commercial Gate

This project consists of a new Entry Control Facilities with vehicle pull-off area, truck inspection facilities, and combined POV and Commercial Vehicle Visitor's Control Center. Also included are eight Defensive Fighting Positions (DFP's), security lighting, and infrastructure for a future CCTV and intrusion detection system (IDS) installation. The final inspection was held in Dec. 2018 and the project has been turned over to the using agency and is currently in preparation for its grand opening, scheduled in Spring 2019. With this project complete, Kun-

san will now have the needed gate access for commercial traffic while bolstering security around the east end of Kunsan Air Base.

The Commercial Gate project was awarded on Nov. 5, 2015, and has a value of \$15.3 million.

CY15 ROKFC-in-Kind, Construct Airfield Damage Repair Warehouse

This project is the first of several Airfield Damage Repair (ADR) Warehouses being built by FED, with ADR

warehouses at Osan, Suwon, Gwangju, and Gimhae, scheduled to begin late 2020. The scope consists of an open bay warehouse, a Hazardous Waste Accumulation shed, and a fenced-in material handling and container/cargo yard. Upon completion, this facility will eliminate deterioration (due to weather and other causes) of valuable War Readiness Material (WRM) assets, which are crucial for air mission execution in the event the airfield incurs damage. This contract was awarded Dec. 21, 2018, at \$5.3 million.

CY15 ROKFC-in-Kind, Construct 3rd Generation HAS, PH 1-3

The scope of this contract is to construct twenty 3rd Generation Hardened Aircraft Shelters (HAS) on the southeast side of Kunsan Air Base. These new facilities will eventually replace the outdated 1st Generation shelters, which require major upgrades to make them functionally adequate to protect combat assets and maintain combat fighters. They will also accommodate larger aircrafts such as F-15, A-10, and F-35, which will not fit in the current shelters with proper wing tip clearances.

Substantial progress was made during the 2018 calendar year, including architectural liner panels and exterior concrete work for all shelters, as well as over 180,000 square meters of soil improvement required for new airfield pavements that will connect these new facilities to the existing

airfield taxiways. The contract was awarded on April 13, 2016, and scheduled for completion on May 5, 2020, with a contract value of \$112.5 million.

ROKFC-in-Kind, Aircraft Flow-Thru Shelters (Pantons)

This project consists of five double configured turn-around "flow-through" shelters, refueling system, two 10,000 barrel fuel storage facilities, and pump house. Upon its completion in May 2019, this project will provide the 80th Fighter Squadron "Pantons" adequate aircraft turnaround times and substantial improvement in their generation of wartime sorties to support mission requirements. This contract was awarded on Dec. 4, 2015, and is at 92 percent construction completion. The current contract value is \$38.4 million.

FY17 OMAF, Repair Fire Protection System, Bldg 2241

This project is to repair and provide a fire protection system to comply with UFC 3-600-01 and applicable fire protection codes at Egress Hangar, Bldg 2241. The work includes a new fire pump room with two underground water storage tanks, new low-level high-expansion foam (HEF) system with five foam generators and new sprinkler system in the entire building, including office areas. The project was awarded Feb. 24, 2017, and the final inspection was held with FED and the customer on Dec. 21, 2018 and turned over to the using agency. By far, the most important milestone during the construction was the Final Acceptance Test performed from Dec. 13 to 15, where the Government witnesses the foam dumping test on the hangar floor to verify the system performance, as shown in the photo.

Aircraft Flow-thru Shelter Tank



FY17 OMAF, Repair Fire Station, Bldg 2122

This \$2.8 million repair project will provide major upgrades to the existing fire station at Gwangju Air Base, which was built in 1970 and does not meet current firefighter health and safety requirements. The mechanical piping and duct systems will be replaced, along with the HVAC system. Currently, the contractor is installing plumbing lines, steel door frames and windows, and gypsum board with insulation.

The contract was awarded on Sept. 28, 2017 and is at 46 percent completion, with a schedule to be completed July 2019.



Fire Station, Gwangju Air Base



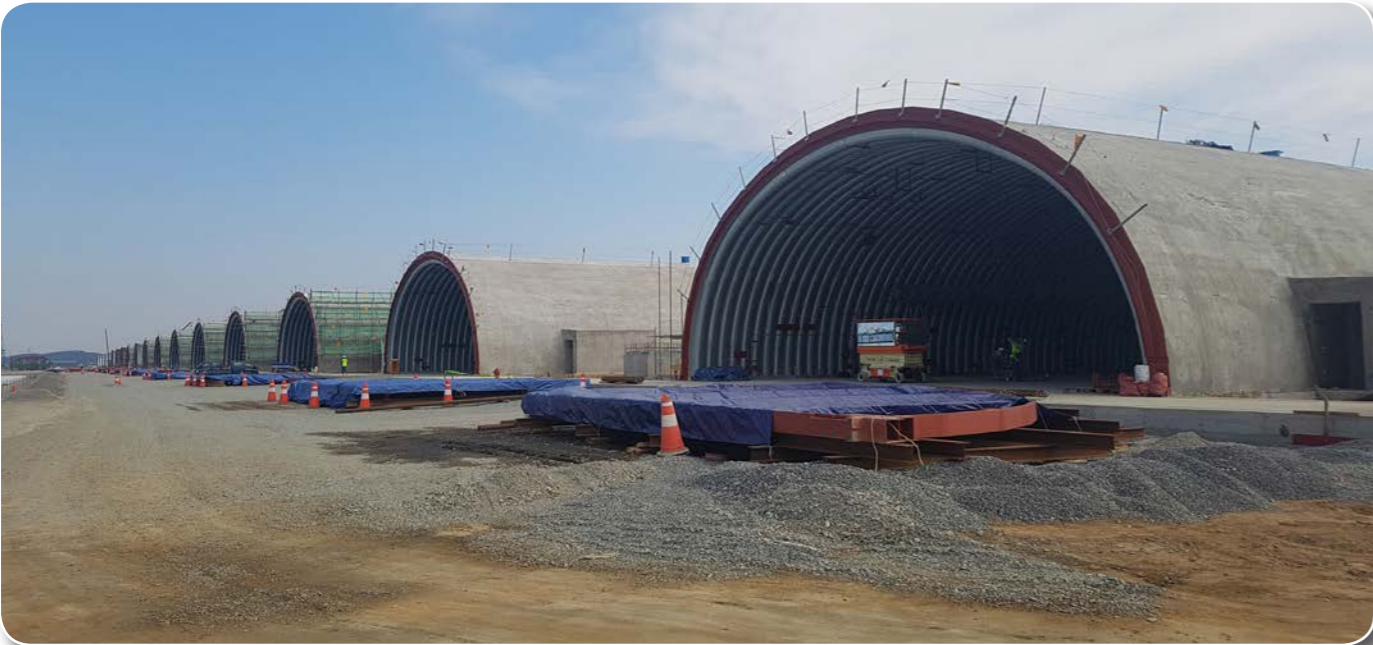
AGE Facility, Gwangju Air Base

FY18 OMAF, Repair AGE Facility, Bldg 2123

Aerospace Ground Equipment (AGE) facilities are crucial for the maintenance and repair of aircraft systems and subsystems, primarily equipment that supplies electricity, hydraulic pressure, and air pressure. This \$892,000 project provides comprehensive upgrades to the building’s interior components and replaces the entire mechanical HVAC equipment and plumbing system, which were in ex-



Hardened Aircraft Flow Thru Shelter, PH1-3



Hardened Aircraft Flow Thru Shelter, PH1-3

tremely poor condition.

The facility was turned over to the using agency, 607 MMS, on Dec. 27, 2018. The contract was awarded on Nov. 2, 2017.

FY17 OMAF, Repair Gym, Bldg 150, Gwangju Air Base

Gwangju Air Base has several O&M projects executed by the Kunsan Resident Office. Gwangju Air Base is a COB (Collocated Operating Base) used by the U.S. Air Force during exercises and used extensively during contingency operations. A much needed upgrade, this Gym repair project completely demolished and built from the ground up the existing Quonset hut and metal building envelope that housed the weight room, fire pump room, and locker rooms.

This project was successfully completed and turned over to the using agency 607 MMS in Dec. 2018. The contract was awarded Sept. 28, 2017 and has a value of \$2.8 million.

JOC, Air Force Paving and SRM

Various task orders were executed under the Korea-wide Job Order Contracts (JOC), one for Airfield Paving, and one for Sustainment, Restoration, and Modernization (SRM). One of the major task orders completed in 2018 under the SRM JOC contract is the

Revetment at Munitions Storage Area. This \$394,000 task order was completed and turned over in Sept. 2018. These precast concrete structures provide the force protection and security measures necessary to guard munitions assets.



Gym, Bldg 150, Gwangju Air Base



Rendering of ADR Warehouse, Kunsan Air Base

Engineering Division

Cost Engineering Branch

In FY18, Cost Engineering Branch completed 24 Independent Government Estimates (IGEs) for MILCON/Host Nation funded projects including MCA, MCAF, OMA, OMAF, IDIQ, and ROKFC/YRP (SCIF) projects peninsula wide totaling more than \$93 million dollars. In addition to IGEs for new projects, the branch completed 66 IGEs for JOC contracts and Basic Change Documents (BCD) as well as reviewed 63 CWEs prepared by SOFA A-Es. Also, four in-house projects have had fully developed estimates:

1. 30 percent, 90 percent, 95 percent and 100 percent CWE for AFH090 with PA \$153 million - USAG Humphreys
2. 90 percent, 95 percent and 100 percent CWE for UEH120A with PA \$95 million - USAG Humphreys
3. 30 percent, 90 percent and 95 percent CWE for UAV with PA \$53 million - Kunsan Air Base
4. 30 percent CWE for AFH Tower #4 with PA \$68 million - Camp Walker

Cost Engineering Branch provides support by using the Corps of Engineers MII estimating software, Excel format for US funded projects and Host Nation projects such as ROKFC projects and SCIP projects, and the Korean Estimating Management System (EMS) software used for estimating Host Nation funded projects such as ROKFC-in-kind projects which are being contracted out by ROK MND.

Cost Engineering Branch uses the updates to the approved material list database of Korean materials provided by the Specification Section in Design Branch which identifies materials approved for use on US funded projects and ROKFC-in-Kind projects in Korea. Also, the JOC Unit Price Book (UPB) for Army and AF JOC IDIQ contracts in FY18 were being updated/added to the current UPB or the new UPB in preparation as CT requested.

Cost Engineering Branch has continued to support Construction Division construction modifications by assisting with negotiations as requested for US MILCON projects and many cost validations on ROK MND contractor's proposals during construction period for ROK-in-Kind projects.

This workload is expected to continue for future years.

Design Branch

The Design Branch comprises 45 architects, engineers, engineering technicians, specification writers, and administrative assistants who continue to provide high quality services, producing designs and contract solicitation packages for construction. Of particular significance in FY18 are the following design projects:

CY 20, CY 21, & CY 22 Unaccompanied Enlisted Personnel Housing (UEPH), USAG Humphreys

The design branch is approaching the 90 percent design on the CY 20 UEPH housing tower project with a total of two 8-story buildings that will provide additional housing on-post to support the increased population at USAG Humphreys. Each housing tower will provide housing for 302 enlisted soldiers. Construction of the CY 20 project is anticipated to start early in 2020. In addition, the Design Branch is approaching the 30 percent design of the CY19 Unaccompanied Enlisted Personnel Housing project. Between the two projects, the CY 21 UEPH and CY 22 UEPH designs will also consist of seven (7) eight-story towers that will provide housing for 302 soldier. Combined, the CY 20 UEPH, CY 21 UEPH, and CY 22 UEPH projects will

have a construction cost of over \$340 million and will provide housing for more than 2,700 unaccompanied enlisted soldiers. The building design will include:

- Individual Bedrooms for each soldier
- Shared bathroom and kitchen (two soldiers per module)
- Two Gazebos
- One BBQ Shelter
- Mud Room
- Laundry Room on every floor

FY18 MCA PN81359, Unmanned Aerial Vehicle Hangar, Kunsan Air Base

The Design Branch completed the 100 percent design of an Unmanned Aerial Vehicle Hangar located in Kunsan Air Base. This MILCON funded \$53 million project comprises a standard UAV Hangar and relocation of the existing Aviation Defense Artillery Battalion (ADA) Facilities. The construction is anticipated to start at the end of 2019. The 52,000 square feet UAV hangar includes an operation and maintenance hangar with shops, supply and storage space and company administration. The project also includes a taxiway, a hangar access apron and Site storage facilities including POL storage, HAZMAT waste storage and air craft container storage. The aircraft hangar area will be installed with a High Expansion

foam fire suppression system in addition to the automatic sprinkler system that will be installed in the facility throughout. The new relocated ADA facilities include the missile resupply area, fighting positions/revetments, ready building/Command Post, Battery Command Post area, safety shelter and ground support equipment area.

FY19 MILCON, PN 81429, Family Housing New Construction, Camp Walker

The design branch is approaching the 90 percent design on the FY19 Army Family Housing project that consists of a 15-story apartment tower and a two story above ground parking structure. The apartment high-rise will provide housing for 90 families and is located at Camp Walker. Construction of the FY19 Army Family Housing project is anticipated to start in late 2019. The building design will include:

- 60 three-bedroom Units, 26 four-bedroom Units, and four 5-bedroom Units
- Living area, kitchen, bathrooms, bedrooms, and storage in each apartment unit
- Playground, pavilions, and gazebos on top of parking garage structure

Geotechnical and Environmental Engineering

Fiscal year 2018 was a continuously challenging period as the Geotechnical and Environmental Branch (EDG) had to adjust their workload while moving to their new location at Camp Humphreys. The Branch provided excellent high quality work that resulted in the completion of 369 geotechnical, environmental, groundwater resource, geospatial, and laboratory/field testing projects, investigations, reports, and supports, with a final balanced operating budget of approximately \$6.74 million.

There were several significant personnel changes for the Environmental Section during 2018. Dr. Chon Son-chu, Chief, Environmental Testing Lab, retired in Nov. 2018 with Kim Kyong-ho promoted from KGS-11 Chemist to KGS-12 Lead Chemist for the Environmental Lab. Song Yo-sep, Chemist left to take a job with USAG Humphreys DPW in Oct. 2018. Bryson Twidwell was appointed as the Chief, Environmental Section in March 2018.

In FY18, EDG was led by: Dr. Jay Pak (Chief, Geotechnical and Environmental Branch), Sun H. Lee (Chief, Geotechnical Section), Bryson Twidwell (Chief, Environmental Section), Pak Song-hyon (Chief, Geology and Hydrology Section), Dr. Pak Chun-pom (Chief, Data Management Section), Yun Yong-ham (Chief, Materials Testing Lab), Dr. Chon Son-chu, (Chief, Environmental Testing Lab).

The Geotechnical Section (EDG-G) prepared 23 geotechnical design and analysis reports to evaluate the physical and engineering properties of the subsurface materials and provide geotechnical engineering requirements for the project structures of ROKFC-in-Kind and USFK projects. In addition, 21 construction supports included construction surveillance as authorized representative of indicator pile driving, construction RFIs review, construction recommendation, settlement monitoring installation inspection and report reviews were per-

formed. For the USFK project, Geotechnical engineers performed as contracting officer Quality Assurance (QA) of the test pile program including Pile Driving Analyzer (PDA) tests, static load tests, lateral load tests, and pullout tests. The Material Testing Laboratory (MTL) of Geotechnical Section performed 30 inspections of batch plants and QC laboratories for a wide range of projects, which is critical for the contractor to be provided a quality concrete, asphalt and testing services during construction. In addition, 14 field QA supports related to soil and concrete were completed over last year. MTL also supported 20 projects providing the Geotechnical designer with accurate test results of soil properties through tri-axial, consolidation and classification tests. MTL interest analysis and evaluation of exiting pavements and buildings through Concrete Non-Destructive Testing (NTD) equipment and intend to apply to the existing

structures’ Life time extension through proper repair method in a timely manner based on accumulated raw data for Pavement Management System (PMS) or Building Management System (BMS).

The Environmental Section (EDG-E) performed 21 various in-house and contract projects in fiscal year 2018. EDG-E in-house staff performed asbestos surveys for a total of 100 buildings at USAG Humphreys. The projects identify asbestos containing building materials (ACBM) in preparation for subsequent demolition and renovation activities. The asbestos surveys consists of field investigations, destructive sampling to determine ACBM quantities, laboratory testing of representative bulk samples, and preparation of an asbestos survey report. Field investigations were conducted by Asbestos Hazard Emergency Response Act (AHERA)-certified inspectors in EDG-E. The survey reports will be used by the installations for follow-on asbestos abatement actions as appropriate for building renovations or demolition. Projects conducted included Environmental Conditions of Property which investigated site conditions for the DLA laydown area USAG Humphreys and provided an Environmental Conditions of Property (ECP) report. Stormwater Monitoring was

conducted in Area I. This project is ongoing project to monitor quality of stormwater which runs through installations at Area I. Wet season sampling was completed in Sept. 2018 and dry season sampling is scheduled in March 2019. Another project conducted updated the Integrated Cultural Resource Management Plan (ICRMP) for COMFLEACT Chinhae. This project combined the 2016 ICRMP and 2016 Cultural Resource Survey results. Groundwater feasibility studies were conducted at four co-located bases - Daegu, Gimhae, Gwangju, and Suwon Air Bases- in order to provide quality and sufficient quantity of water to each base and to identify if any potential contingency drinking water exists within the Gimhae Air Base. Other projects included obtaining the current status of cross-connections, install BPAs and to identify potential backflow prevention deficiencies that may pose a risk to the potable water supply at Command Naval Forces Korea HQ’s in Busan and USAG Humphreys. Additionally, multiple Environmental Management Plans and Spill Response plans were developed. The USFK Regulations 201-1 Korean Environmental Governing Standards were reviewed, upgraded and sent for legal review. Other EDG-E projects include,

but are not limited to, stockpile sampling and analysis for Camp Humphreys, sampling for hydrocarbons from contaminated soils where petroleum contamination was found, and annual FED environmental and safety trainings. The IDIQ Contract was established with four option years for \$9 million. This IDIQ Contract has five contractors with ability to provide environmental support anywhere in South Korea giving FED a very powerful tool to assist installations should any environment requirement arise.

The Data Management Section (EDG-D) supported the Branch, District, and customer organizations by providing topographic survey, expert geospatial data analyses and products, sharing geospatial data, promoting database standards, and managing the District Geographic Information System (GIS). By partnering with USFK, DPWs, USAF 8th/51st CES, MARKFOR and MND DIA, the Section conducted topographic survey for 43 projects in support of the Division’s Design Branch and SOFAAE firms as well as completing joint U.S.-ROK installation boundary surveys for five USFK installations: Pyeongtaek PMO, Kunsan Air Base, Pohang Air Base & Magazine, Korea Training Center and Yongsan Garrison. Some project exam-

ples are: FY21 ROKFC-in-Kind A20R220P2, UEH100A&B at USAG-Humphreys, CY19 ROKFC-in-Kind, A13R662, Repair/Replace Sewer Piping System at Camp Walker; FY18 ECIP SMYU Base Wide Natural Gas Conversion Phase I at Osan Air Base, and CY19 ROKFC-in-Kind PN88653 A19R620, VMF140 at USAG Humphreys. The Section conducted construction quality surveillance surveying at various project sites at USAG Humphreys and Osan Air Base to verify final grades and validate completion of ground settlement prior to facility construction. The Section provided services for Environmental GIS database collection for DPW, USAG Yongsan, and a review of GIS dataset for natural resources at USAG Humphreys. The Section was responsible for reviewing all District design CADD drawing products and construction as-built CADD drawings for compliance with required geospatial & A/E/C CADD standards. Essential geospatial support was provided for Branch project execution by ensuring that the Branch GIS is kept up to date with acquired project data and imagery, and by upgrading GIS software version, ArcGIS 10.4.1 of desktop users and Web server.

The Geology and Hydrology Section (EDG-H) is tasked with conducting subsurface exploration and geologic field investigations supporting the District’s military design and construction pro-

gram, as well as tasked with maintaining groundwater resources on USFK installations.

In FY18, the Section completed a total of 197 borings for 20 geotechnical and environmental site investigation projects at 13 USFK installations to include: AFH090 PN 86877 Family Housing New Construction Project, Camp Humphreys; CY20 ROKFC-in-Kind F17R500, Maintenance Hangers and Parking Apron, Gwangju Air Base; ADA & OVP for UAV project, Kunsan Air Base; CY19 ROKFC-in-Kind PN88653 A19R620, VMF140 EAB Engineer Battalion VMF, Camp Humphreys; FY19 AFHC PN 81429 Family Housing New Construction (Tower #4), Camp Walker; CY19 ROKFC-in-Kind, F18R560 (456529) Upgrade Flow Thru Fuel System (Wolf Pack), Kunsan Air Base; CY21 ROKFC-in-Kind A20R210P2, UEH100B, Camp Humphreys.

This Section also has provided services for developing and maintaining ground water resources.

Water well services during FY18 include preventive and emergency maintenance for 137 supply water wells, providing clean potable water for facilities use, at 23 USFK installations of USAG RC & Area I, USAG Yongsan, USAG Humphreys, USAG Daegu, and CFA Chinhae. Conducted emergency repair for the well #5 at FOS Camp Carroll – Seongju site (THAAD Deploy-



Emergency Repair for Seongju Site Well #5, THAAD Deployment, FOS Camp Carroll, May 2018

ment) to resume water supply of 28,900 gallons per day for 400 U.S. and ROK soldiers. Performed water well feasibility study for Air Force Co-located Operating Bases at Daegu, Gimhae, Gwangju and Suwon with drilling of a new exploratory water well at Gimhae Air Base.



Topographic survey for VMF140 Site at Detention Basin, USAG Humphreys, April 2018

Technical Review Branch

In 2018, the Technical Review Branch (EDT) saw a transition of leadership from Dong Shin to Kylee Moore. Through this transition, the branch has continuously performed design management tasks and design quality assurance activities through technical reviews. EDT has led the new process to conform to the Brooks Act by standing up the AE Selection process that allows FED to select AE Firms to be awarded task orders against our new \$100 million IDC. As FED transitioned from awarding task orders to the three legacy SOFA AE Firms to the \$100 million IDC, EDT has provided leadership and guidance to streamline the selection process and standardize the selection process. At the close of 2018, there were 112 Task Orders scheduled to be awarded. EDT continues to be the leading role for AE Review and Responsibility Board (AERRB) which has investigated high profile design deficiencies includ-

ing the smoke barriers of the MED20 Hospital.

The Technical Review Section (TRS) also saw a change in leadership from Yong J. Kye to Robin Inaba as section chief and continued to effectively maintain and support FED’s Quality Assurance Program (QAP) throughout. TRS provided quality assurance oversight by performing over 200 FED project reviews in 2018 for various construction programs such as Yongsan Relocation Plan, Land Partnership Plan, ROKFC-in-Kind, Operation and Maintenance (O&M) and Military Construction In-Kind Army (MCA) projects, and SRMs. Through coordination with Regional Engineering Center (REC) in Hawaii District and other technical centers (MCXs and TCXs), TRS successfully managed its resources fully to accomplish timely and value added design reviews for all FED projects. For each project, TRS staff identified critical design elements such as

questionable structural design approaches inconsistent with local construction building material industry standards, deficient space utilization modeling resulting from incomprehension of exact user equipment and operation processes, life and fire safety deviations, etc. and ensured appropriate corrective actions were taken through effective coordination with project management teams. In addition to QAP support, TRS has played a key role as technical evaluator of FED’s AERRB design and construction issues providing valuable professional assessment in line with good engineering practice. Ms. Robin Inaba joined the TRS from QAB as an architect and was promoted to section chief in 2018.

Design Management Section (DMS) continued to perform strong under the excellent leadership of Choe Kwang-kyu. Four DMs left DMS in 2018: Kerwin Donato and Jennifer Yoon have returned to the United States, So Chang-sok retired, and Steve Karwan promoted to Design Branch Chief in the Japan District. David Schlesinger has joined the Design Management Section and has proven time and time again to be vital in negotiating and awarding task orders, modifications, and contracts for FED. Todd Hill has accepted a position as a DM and will arrive in

country in 2019 to start his career with USACE. Bruce Bae accepted a promotion into the DM section and will join the team from Construction in 2019.

Each individual Design Manager, as AE contract negotiator, have been able to overcome challenges and were able to negotiate and award all AE contracts as scheduled through support from Lead AE Negotiators (Steve Karwan and David Schlesinger). The total of number AE contract negotiated and awarded, including modifications, are over 81 with total value of \$16 million (MILCON and Host Nation projects). DMS was deeply involved in negotiating and awarding the \$100 million IDC and the first task order awarded against it. Additionally, Jennifer Yoon, Won Lee, and David Schlesinger negotiated and supported the AE contract supporting action for the Korea Air Operation Center (KAOC) at Osan Air Base. DMs have been provided services from pre-award to post-award design activities including design management, RFIs during construction, AE performance evaluation, AE responsibility, COR function, as well as Technical Team Lead for each project.

Counsel

Far East District Office of Counsel supported the District’s missions and its customers during the year completing approximately 240 legal reviews of pending pre-award and post-award acquisition actions having an approximate cumulative value of nearly \$1 billion.

Early in the year, Counsel finalized settlement of claims totalling over \$3 million appealed to the Armed Services Board of Contract Appeals by Daelim Industrial Company, Ltd. in ASBCA Appeal No. 59885 under Contract W912UM-13-C-0020, Phase I: Site Preparation of the KORCOM Operations Center, USAG Humphreys, Pyeongtaek, South Korea. Counsel working with the Contracting Officer represented the Government during alternate disputes resolution conducted by the ASBCA and secured a settlement of approximately \$1.7 million.

In 2018, FED Office of Counsel working with the USACE Contract Law and Litigation Division, obtained dismissal of the GAO bid protest B-416424.1

of Maxerve Co., Ltd. against award of Contract No. W912UM-18-C-0008 to another contractor. Counsel’s recommended corrective action enabled the suspended contract for crucial DECA commissary maintenance services in Korea to be resumed without lengthy delay.

During 2018, FED Office of Counsel gave support to both the District and its major customer United States Forces, Korea regarding various aspects of their relations with the Republic of Korea’s Ministry of National Defense, Defense Installations Agency. Counsel researched and advised about ROK national procurement laws and regulations in support of negotiations with MND-DIA over which government should bear the cost of legal judgments against the ROK government arising out of ROK Funded Construction In-Kind projects conducted on behalf of USFK. Counsel assisted with development of negotiation points to be used by USFK, the DoD and the U.S. State Department during negotiation of the 2019-2023 ROK-U.S. Special

Measures Agreement.

Throughout the year, Office of Counsel provided assistance and coordinated District support to U.S. Department of Justice and Army and DoD criminal investigators during investigation of alleged bribery associated with award of Contract W912UM-09-C-0007, U.S. Army Garrison Humphreys Land Development And Utilities Infrastructure to SK Engineering and Construction Co., Ltd. Counsel’s efforts culminated in its successful recommendation that the contractor be suspended by the Army Suspension and Debarment Official.

Assistant District Counsel, Paul L. Huhtanen, deployed to Puerto Rico from Nov. 7, 2017 to Dec. 21, 2017 to serve as legal advisor to USACE’s “Task Force Power Restoration” in the aftermath of Hurricane Maria’s devastation of that territory. Huhtanen was recognized with the USACE Chief Counsel’s Enterprise Award for his service during the relief operation.

Contracting

Contracting, in the Far East District took a huge leap forward in 2018 by awarding five new Architect-Engineer (A-E) Indefinite-Delivery-Indefinite-Quantity (IDIQ) contracts. This marks the beginning of a new era of AE Contracting for the district. The IDIQ contract has five U.S. based A-E firms, competing for a shared capacity of \$100 million worth of future projects.

The Far East District continues to lead the way in the Army’s Virtual Contracting Enterprise (VCE) Paperless Contract File compliance, which now includes customer cabinet request, tracking project Acquisition Lead Times (ALT), and Procurement Lead Times (PALT) though use of milestones in PCF. POF is the top among the POD districts by 98 percent compliance, followed by the next tier at 78 percent, and POD is ranking ahead of all USACE divisions in its compliance. We are proud to say POF is leading the nation!

CY19 ROKFC-in-Kind, F20R600, SMYU21-3002 Communication Headquarters Building, Osan Air Base

This contract is to design an adequately sized, configured, secured, semi-hardened, and survivable communications HQ building for Osan Air Base to support the entire ROK peninsula. The requirement was to provide a modern, efficient, consolidated Communications Squadron (CS) and alternate emergency operations center (EOC) facility to enhance management and mission effectiveness as well as effectively support contingency operations at this joint, warfighting installation. The construction of it will be a multi-story communications HQ facility to include administration areas, Network Control Center (NCC) and Telecommunications Center (TCC). Utilizing conventional design and construction methods, this project will accommodate the mission of the facility to provide a reliable, semi-hardened communications node for the ROK peninsula. The facility includes internal communication systems, elevators, fire protection system, collective protection system (CPS), backup and redundant power supplies, communication vault, concrete encased outside plant (OSP) and manhole duct system (MHDS), and force protection measures.

Contractor: HDR Architecture, Inc.
Date of Award: Aug. 28, 2018
Award Amount: \$4,581,000

FY18 DECA O&M PA15MI01 Commissary Architectural & Refrigeration/HVAC Upgrade, Camp Walker

This endeavor is a system upgrade that will have significant impacts on the Camp Walker soldier’s quality of life. The project replaces all the outdated Mechanical and Refrigeration equipment and systems at the Commissary in Camp Walker. It is a major upgrade to the Commissary’s systems that include the refrigeration system, Refrigeration Monitoring and Control System (RMCS), Unit coolers located in the walk-in freezers and coolers. This is a large undertaking to replace all HVAC systems and equipment, including air handlers, chillers, condensing units, dehumidification units, controls, piping, ductwork and diffusers as needed. Also, upgrade the interior finishes in the sales and administrative areas to include new Décor, new flooring, and ceiling repair/replacement and construct additional freeze storage. Finally, it will expand the existing deli/bakery into the current storage area and renovate the produce storage and preparation areas as well as repair/replace the roofing. This is a complex construction project due to the need to keep the Commissary open during construction. Therefore, the contractor must work around patrons and ensure the current system does not go down. Construction is anticipated to be completed in Sept. 2020.

Contractor: Shinsaegye Construction Company LTD
Date of Award: Sept. 20, 2018
Award Amount: \$6,583,685

Resource Management

Finance & Accounting

The F&A Branch is responsible for CEFMS II support, access and permissions; full operational accounting support; payroll management; timely submission of time and attendance; CFO audit readiness and compliance; government travel charge card management; PR&C funds certification; and JRP ULO reviews. The team conducted three ULO reviews during Fiscal Year 2018 comprising 2,769 transactions valued at \$798.5 million dollars. The purpose of the ULO is to increase the District's ability to use all available appropriations before they expire and liquidate all obligations before they close. The review also facilitates project closeout, ensures all balances are accurately recorded, in an active status, and are properly supported. The following is a recap of the major categories:

Category	Number of Items Reviewed	Total Value
All ULOs	2,769	\$798.5 Million
Cancelling Appropriations	35	\$1.6 Million
Inactive Items	2,530	\$783.9 Million
Inter-Agency Items	7	\$63 K
Expired Items	30	\$978 K
Other Items	167	\$11.9 Million

The F&A Team manages the District's accrued leave account. In order to fund the leave account, the Effective Rate for DACs was set at 225 percent and for KNs at 145 percent. The leave account provides funding for LQA, post allowance, all types of leave, and other benefits such as health and life insurance. To ensure sufficient funding of the leave account, the F&A team monitors the balance, related income and expenses, foreign currency fluctuations, and recommends rate adjustments if needed.

Throughout the fiscal year, the F&A Team conducted monthly and quarterly reviews of CFO test plans in preparation for the mandated NDAA military audit financial improvement and audit readiness. FED maintained an overall positive 'Green' rating during Fiscal Year 2018.

Management Analysis

Our Team's primary responsibility is to manage the District Manager's Internal Control Program. The program coordinates the reviews and self-assessments of several functional activities at different organizational levels. The assessments are reviewed by RM and Internal Review to determine the proper guidance to give the Commander regarding the Annual Statement of Assurance (ASOA). The ASOA is used at

all levels of USACE and Army to determine if significant deficiencies or material weaknesses exist that could lead to injury, loss of life, or waste, fraud and abuse. There were no significant deficiencies or material weaknesses reported in 2018

Budget Operations

The Budget Branch is responsible for formulating operating budget, monitoring operating budget, executing operating budget, and ensuring the district has adequate resources to carry out the district's mission. The Budget Branch manages all District funding to include FADs from HQ; Customer Orders (MIPRs) from other government agencies; Host Nation Funding; and the Operating Budget, and ensures executions are made in accordance with fiscal policy and appropriation laws.

Operating Budget is used to fund employee training, travel, supplies and other overhead expenses and the Budget team uses Direct Funding to create the District's Operating Budget through overhead rates. There are two overhead rates that the District uses; Consolidated Departmental Overhead (CDO) and General & Administrative (G&A). The FY18 Midyear Operating Budget was \$64.9 million with a CDO rate of 47 percent and a G&A Rate of 27 percent. The FY19 Initial Operating Budget is \$69.7 million with a CDO rate of 45 percent and a G&A Rate of 26 percent.

The Budget Office works closely with Program Management to estimate future workload and determine what

resources will be used to accomplish the workload. The workload is also broken down into different categories of work as shown below.

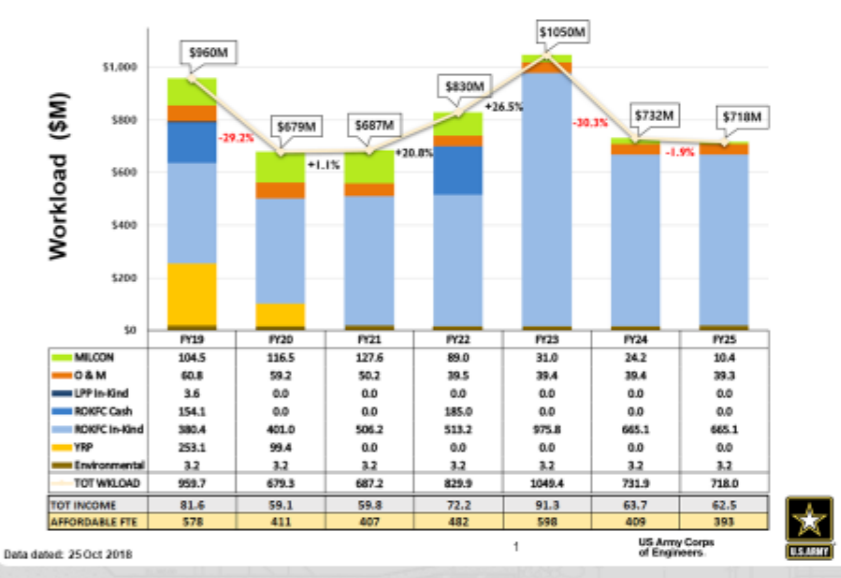
Manpower Analysis

Manpower is the largest component of the District's Operating Budget and proper management ensures that the District has adequate resources or 'Program' available to pay for it. We continually monitor the breakout of the workforce to include the number of DACs, KNs, Military and Contractors. Below is a breakdown:

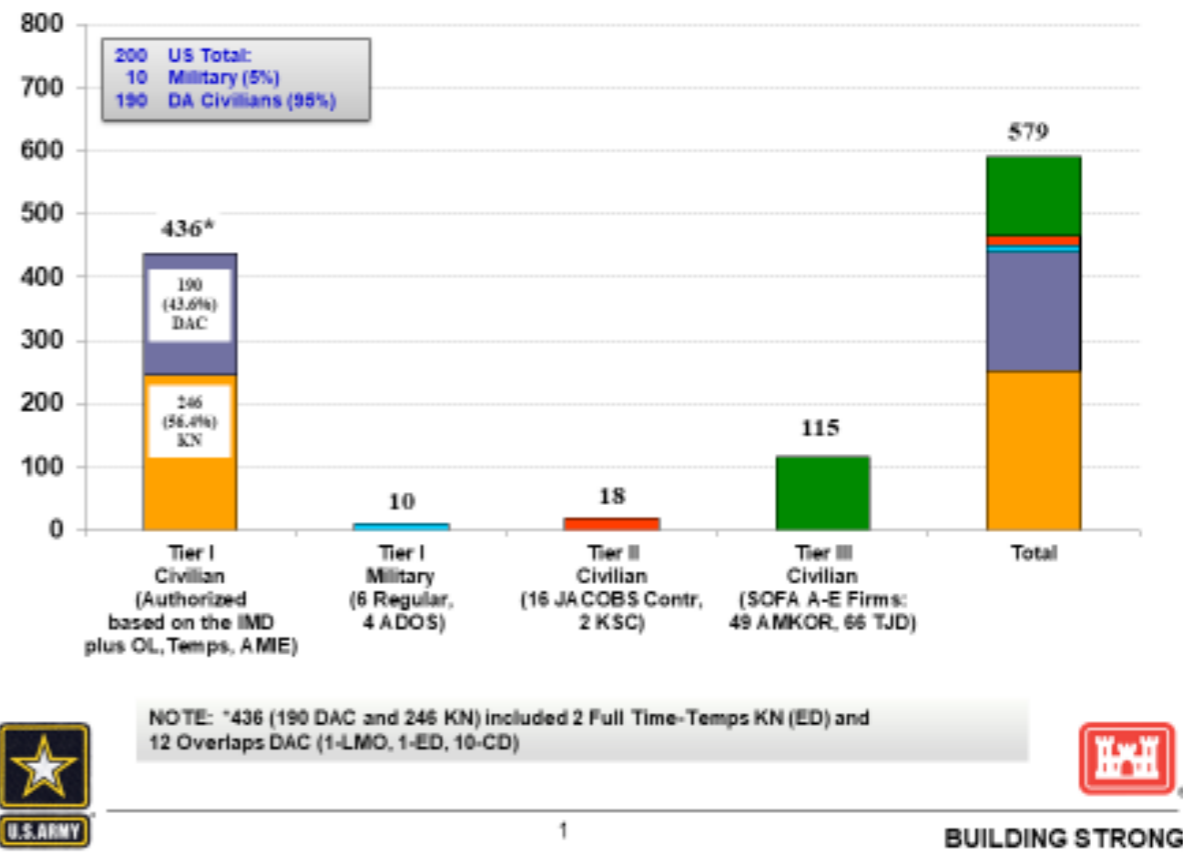
Personnel Changes

During 2018, Young Phoenix, the District's CFO accountant accepted a position in RM at the Seattle District. Lourdes Pastrana came onboard to back-fill Phoenix in Nov. 2018.

FY19-FY25 Workload \$ Income Projections (\$M) by Program



FY18 Midyear on-board Manpower Resources for FED Mission as of Sept. 30, 2018





US Army Corps
Of Engineer®
Far East District

DISTRICT OFFICES



Seoul Project Office



Central Resident Office

FED HQ



Pyeongtaek Resident Office



Family Housing Resident Office



Medical Resident Office



Construction Surveillance Resident Office



Humphreys Area Office



Kunsan Resident Office



Southern Resident Office



Busan Project Office