### DOD Education Activity
**FY 2017 Military Construction, Defense-Wide**
($ in Thousands)

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<th></th>
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<tbody>
<tr>
<td>Delaware</td>
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<tr>
<td>Dover Air Force Base</td>
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<tr>
<td>Welch Elementary School/Dover Middle School Replacement</td>
<td>44,115</td>
<td>44,115</td>
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<td>Germany</td>
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<td>Kaiserslautern</td>
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<td>Sembach Elementary/Middle School Replacement</td>
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<td>Kadena Air Base</td>
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<td>United Kingdom</td>
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<tr>
<td>Royal Air Force Croughton</td>
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1. COMPONENT  
DoDEA

2. Date  
February 2016

3. Installation and Location  
Dover Air Force Base, Delaware

4. COMMAND  
DoDEA

5. AREA CONSTRUCTION COST INDEX  
1.07

6. PERSONNEL STRENGTH  

<table>
<thead>
<tr>
<th>PERMANENT</th>
<th>STUDENTS</th>
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<tr>
<td>OFFICER</td>
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<td>a. AS OF 30 SEP 2015</td>
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7. INVENTORY DATA ($000)

- TOTAL ACREAGE: 0
- INVENTORY TOTAL AS OF: 0
- AUTHORIZATION NOT YET IN INVENTORY: 0
- AUTHORIZATION REQUESTED IN THIS PROGRAM: 44,115
- AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM: 0
- PLANNED IN NEXT THREE PROGRAM YEARS: 0
- REMAINING DEFICIENCY: 0
- GRAND TOTAL: 44,115

8. PROJECTS REQUESTED IN THIS PROGRAM

<table>
<thead>
<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST ($000)</th>
<th>DESIGN START</th>
<th>STATUS COMPLETE</th>
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<tr>
<td>730787</td>
<td>Welch Elementary School / Dover Middle School Replacement</td>
<td>105,549 SF</td>
<td>44,115</td>
<td>MAY 15</td>
<td>JUL 19</td>
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</table>

9. FUTURE PROJECTS

a. INCLUDED IN FOLLOWING PROGRAM
   None

b. PLANNED IN NEXT THREE YEARS
   None

10. MISSION OR MAJOR FUNCTIONS
    Military Dependent Education

11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES:
    None
1. COMPONENT
   DoDEA

2. Date
   February 2016

3. INSTALLATION AND LOCATION
   DOVER AIR FORCE BASE, DELAWARE

4. PROJECT TITLE:
   Welch Elementary School / Dover Middle School Replacement

5. PROGRAM ELEMENT
6. CATEGORY CODE
   730787

7. PROJECT NUMBER
   AM00047

8. PROJECT COST ($000)
   44,115

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>Item</th>
<th>U/M</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Cost ($000)</th>
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<td>PRIMARY FACILITIES</td>
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<td>SUPPORTING FACILITIES</td>
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<tr>
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<td>ESTIMATED CONTRACT COST</td>
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<td>CONTINGENCY PERCENT (5%)</td>
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<tr>
<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)</td>
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<td>3,447</td>
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</tbody>
</table>

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a multi-story, elementary school/middle school composed of pile foundations, steel framing and brick veneer, metal panels and paint exterior with standing seam metal roofing. Interior construction will consist of reinforced concrete masonry walls, metal stud, gypsum board walls and operable/movable partition walls. Interior spaces include neighborhoods, studios, learning hubs, staff collaboration areas, a career technical education lab, computing center, science lab, art room, music room, occupational therapy/physical therapy, a commons area, performance space, information center, a physical education area with gymnasium, food service, administrative offices, guidance counseling center, a special education office, health services area, maintenance support, central storage area, technology service center, and other required areas for a fully functioning elementary/middle school. The project includes site improvements such as playground areas, signage, fencing, paving, landscaping, covered walkways, exterior lighting and utilities. Cafeteria, food service and information center areas were sized for the future elementary/middle school population.

The project includes related infrastructure such as water, sewer, electrical, staff and visitor parking areas, parent and bus drop off lane, mechanical rooms, emergency access lanes and delivery areas.

The project will require demolition of two buildings for a total of approximately 126,398 SF.

Special construction will include structural piles and grade beam foundations to support the facility. Environmental
1. COMPONENT
DoDEA

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

2. Date
February 2016

3. INSTALLATION AND LOCATION
DOVER AIR FORCE BASE, DELAWARE

4. PROJECT TITLE:
Welch Elementary School / Dover Middle School Replacement

5. PROGRAM ELEMENT

6. CATEGORY CODE
730787

7. PROJECT NUMBER
AM00047

8. PROJECT COST ($000)
44,115

mitigation includes treatment of contaminated ground water during excavation of foundations and utilities.

Sustainable principles will be maximized in the design, development and construction of the project in accordance with Executive Order 13123 and other applicable laws and executive orders. Energy conservation and environmentally safe measures will be incorporated in this project wherever feasible, practical or required by regulation. Energy and natural resource conservation measures will be maximized in the design to the extent possible. In accordance with Leadership in Energy and Environmental Design (LEED) for Schools, Silver certification will be the goal for this project.

Facilities will be designed in accordance with Americans with Disabilities Act (ADA) Accessibility Guidelines/Architectural Barriers Act (ABA), National Fire Protection Association (NFPA) Life Safety Code, Standards of Seismic Safety for Federally Owned Buildings, and energy and water conservation standards.

Air Conditioning Load: 400 Tons

11. REQUIREMENT: 105,549 SF ADQT: 0 SF SUBSTD: 126,398 SF

PROJECT:
Replace the existing elementary/middle school facility by constructing a new elementary/middle school facility.

REQUIREMENT:
The new school is required to provide adequate academic facilities for 490 students in grades Kindergarten through Eight. School population based on 2019 school year.

CURRENT SITUATION:
The current Welch Elementary School/Dover Middle School is a 126,398 SF facility that was originally constructed in 1960. Following the original construction, additions included building expansions in 1963, 1966, 1982 and 1995. The school has a poor facility condition rating; it is more economical to replace than to repair. The following systems are expired or are failing and in need of replacement; electrical branch circuits, casework, exterior doors, exterior finishes, exterior windows, plumbing fixtures and piping, specialties and heating, ventilation and air conditioning (HVAC) systems. The facility does not meet the DoDEA’s Education Facilities Specifications to include 21st Century Curriculum and educational objectives. The facility does not meet current antiterrorism/force protection (AT/FP), Americans with Disabilities Act, and National Fire Protection Association (NFPA) standards and does not meet current federal energy and sustainability mandates.

IMPACT IF NOT PROVIDED:
The continued use of deficient, inadequate, and undersized facilities that do not accommodate the current student population and will continue to impair the overall education program for students. If a new facility is not provided, the substandard environment will continue to hamper the educational process and the school will not be able to support the curriculum and provide for a safe facility. The required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets if the facility is not replaced.

ADDITIONAL:
This project has been coordinated with the installation physical security plans and all AT/FP measures are included.

Economic Alternatives:
All known alternatives were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.
1. COMPONENT: DoDEA

2. Date: February 2016

3. INSTALLATION AND LOCATION
   DOVER AIR FORCE BASE, DELAWARE

4. PROJECT TITLE:
   Welch Elementary School / Dover Middle School Replacement

5. PROGRAM ELEMENT

6. CATEGORY CODE
   730787

7. PROJECT NUMBER
   AM00047

8. PROJECT COST ($000)
   44,115

JOINT USE CERTIFICATION:
This facility can be used by other components on an “as available” basis; however, the scope of the project is based on DoDEA requirements.

DoDEA POC (571) 372-1405

12. Supplemental Data:

Site Approval: Yes ☑ Obtained Date: JULY 2015

No ☐ Expected Date:

Issues:

a. DDESAB, AICUZ, Airfield, EMR, or wetlands: No issue
b. Endangered species/sensitive habitat: No issue
c. Air quality: No issue
d. Cultural/archeological resources: Yes, the extreme southern portion of the field area is designated as a potential site for historical / cultural area. No excavation is permitted at this area until cultural survey is complete.
e. Clearing of trees: No issue
f. Known contamination at selected site: Contaminated ground water.
g. Operational problems: No issue
h. Traffic patterns impact: No issue
i. Existing utilities upgrade: No issue
j. Ordnance sweep required prior to construction: No issue

Planning:
Consistent with Installation Master Plan: Yes

Host Nation Approval: N/A

National Capital Region Approval: N/A

A. Design Data (Estimated):

(1) Status:
   (a) Design Start Date: MAY 2015
   (b) Parametric Cost Estimate Used to Develop Costs: YES
   (c) Percent of Design Completed as of 1 Jan 2016: 15%
   (d) Expected 35% Design Date: APR 2016
   (e) 100% Design Completion Date: NOV 2016
   (f) Type of Design Contract: Design/Bid/Build
1. COMPONENT
DoDEA

2. Date
February 2016

3. INSTALLATION AND LOCATION
DOVER AIR FORCE BASE, DELAWARE

4. PROJECT TITLE:
Welch Elementary School / Dover Middle School Replacement

5. PROGRAM ELEMENT

6. CATEGORY CODE
730787

7. PROJECT NUMBER
AM00047

8. PROJECT COST ($000)
44,115

(2) Basis:
(a) Standard or Definitive Design - (YES/NO) 
   NO
(b) Date Design was Most Recently Used
   N/A

(3) Total Design Cost (c)=(a)+(b) OR (d)+(e):
(a) Production of Plans and Specifications
(b) All Other Design Costs
(c) Total Design Cost
   4,474
(d) Contract
   2,684
(e) In-house
   1,790

(4) Construction Contract Award Date
MAR 2017

(5) Construction Start Date
JUL 2017

(6) Construction Completion Date
JUL 2019

B. Equipment associated with this project which will be provided from other appropriations:

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<tr>
<th>Equipment</th>
<th>Procuring</th>
<th>Fiscal Year</th>
<th>Appropriated Or Requested</th>
<th>Cost ($000)</th>
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<td>O&amp;M</td>
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<td>IT</td>
<td>O&amp;M</td>
<td>2018</td>
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<td>O&amp;M</td>
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</table>
1. COMPONENT
DoDEA

2. Date
February 2016

3. Installation and Location
USAG Kaiserslautern, Sembach Kaserne, Germany

4. COMMAND
DoDEA

5. AREA CONSTRUCTION COST INDEX
1.13

6. PERSONNEL STRENGTH

<table>
<thead>
<tr>
<th>PERMANENT</th>
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<td>a. AS OF 30 SEP 2015</td>
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<td>b. END FY 2020</td>
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7. INVENTORY DATA ($000)

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<th>TOTAL ACREAGE</th>
<th>INVENTORY TOTAL AS OF</th>
<th>AUTHORIZATION NOT YET IN INVENTORY</th>
<th>AUTHORIZATION REQUESTED IN THIS PROGRAM</th>
<th>AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM</th>
<th>PLANNED IN NEXT THREE PROGRAM YEARS</th>
<th>REMAINING DEFICIENCY</th>
<th>GRAND TOTAL</th>
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<td></td>
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8. PROJECTS REQUESTED IN THIS PROGRAM

<table>
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<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST ($000)</th>
<th>DESIGN START</th>
<th>STATUS COMPLETE</th>
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<tr>
<td>73046</td>
<td>Sembach Elementary &amp; Middle School Replacement</td>
<td>119,036 SF</td>
<td>45,221</td>
<td>FEB 2015</td>
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9. FUTURE PROJECTS

a. INCLUDED IN FOLLOWING PROGRAM
None

b. PLANNED IN NEXT THREE YEARS
None

10. MISSION OR MAJOR FUNCTIONS
Military Dependent Education
1. COMPONENT
DoDEA

2. Date
February 2016

3. INSTALLATION AND LOCATION
USAG KAINESLAUTERN, SEMBACH KASERNE, GERMANY

4. PROJECT TITLE:
Sembach Elementary & Middle School Replacement

5. PROGRAM ELEMENT

6. CATEGORY CODE
73046

7. PROJECT NUMBER
EU00039

8. PROJECT COST ($000)
45,221

9. COST ESTIMATES

<table>
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<tr>
<th>Item</th>
<th>U/M</th>
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<th>Unit Cost</th>
<th>Cost ($000)</th>
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<td>ENGINEERING DURING CONSTRUCTION (1%)</td>
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<td>421</td>
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<td>TOTAL REQUEST</td>
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</table>

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a multi-story elementary/middle school composed of cast-in-place concrete slabs on concrete columns and/or concrete shear walls bearing on shallow foundations. Exterior walls will also be cast-in-place concrete with brick veneer or face tile finishes. The roof structure will be a concrete slab. Interior construction will consist of cast in place concrete walls, gypsum board and metal stud partitions, and operable/moveable partition walls. Interior spaces include neighborhoods, studios, learning hubs, staff collaboration areas, a career technical education lab, computing center, science lab, art room, music suites, occupational therapy/physical therapy (OT/PT), Preschool Services for Children with Disabilities (PSCD) studio, a commons area, performance space, information center, a physical education area with gymnasium, food service, administrative offices, guidance counseling center, a special education office, health services area, maintenance support, central storage area, technology service center, and other required areas for a fully functioning elementary/middle school. The project includes site improvements such as signage, fencing, paving, landscaping, covered walkways, exterior lighting, utilities, and playground area. Cafeteria, food service and information center areas were sized for the future elementary/middle school population.

The project includes related infrastructure such as water, sewer, electrical, communication lines, staff and visitor parking areas, parent drop off lane, mechanical rooms, emergency access lanes, bus loading/unloading areas, and delivery areas.
1. COMPONENT
DoDEA

2. Date
February 2016

3. INSTALLATION AND LOCATION
USAG Kaiserslautern, Sembach Kaserne, Germany

4. PROJECT TITLE:
Sembach Elementary & Middle School Replacement

5. PROGRAM ELEMENT

6. CATEGORY CODE
73046

7. PROJECT NUMBER
EU00039

8. PROJECT COST ($000)
45,221

The project will require demolition of 6 buildings for approximately 151,834 SF.

Host nation requirements will include environmental mitigation/compensation.

Sustainable principles will be maximized in the design, development and construction of the project in accordance with Executive Order 13123 and other applicable laws and executive orders. Energy conservation and environmentally safe measures will be incorporated in this project wherever feasible, practical or required by regulation. Energy and natural resource conservation measures will be maximized in the design to the extent possible. In accordance with Leadership in Energy and Environmental Design (LEED) for Schools, Silver certification will be the goal for this project.

Facilities will be designed in accordance with DoDEA Education Facilities Specifications, Americans with Disabilities Act (ADA) Accessibility Guidelines/Architectural Barriers Act (ABA), National Fire Protection Association (NFPA) Life Safety Code, applicable Host Nation Standards, Standards of Seismic Safety for Federally Owned Buildings, and energy and water conservation standards.

Air Conditioning Load: 15Tons

11. REQUIREMENT: 119,036 SF  ADQT: 00,000 SF  SUBSTD: 151,834 SF

PROJECT:
Replace the existing elementary and middle school facilities by constructing a new elementary/middle school facility.

REQUIREMENT:
The new school is required to provide adequate academic facilities for 500 students in grades Pre-K through 8. School population based on 2020 school year.

CURRENT SITUATION:
The current Sembach Elementary School is a 62,999 SF facility that was originally constructed in 1955. Building 4 was added in 1979. Buildings 17 A-D are temporary facilities. The current Sembach Middle School is a 88,835 SF facility that was originally constructed in 1976. The elementary school has a poor facility condition rating and the middle school has a failing facility condition rating; it is more economical to replace than to repair. The following systems are expired or are failing in both schools and in need of replacement; heating system, plumbing, elevator, roofing, windows, doors, lighting. The facilities do not meet the DoDEA’s Education Facilities Specifications to include undersized classrooms, lack of hub space, lack of group on-to-one learning spaces, lack of teacher collaboration, undersized cafeteria/commons, inefficient layout, deficient parking, and lack of parent drop off and bus drop-off areas. The facility does not meet current antiterrorism/force protection (AT/FP), ADA, NFPA and does not meet current federal energy and sustainability mandates.

IMPACT IF NOT PROVIDED:
The continued use of deficient, inadequate, and undersized facilities that do not accommodate the current population and will continue to impair the overall education program for students. If a new facility is not provided, the substandard environment will continue to hamper the educational process and the school will not be able to support the curriculum and provide for a safe facility. The required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets if the facility is not replaced.

ADDITIONAL:
This project has been coordinated with the installation physical security plans and all AT/FP measures are included.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2017 MILITARY CONSTRUCTION PROJECT DATA</th>
<th>2. Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>DoDEA</td>
<td></td>
<td>February 2016</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>USAG Kaiserslautern, Sembach Kaserne, Germany</td>
<td>Sembach Elementary &amp; Middle School Replacement</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tbody>
<tr>
<td></td>
<td>73046</td>
<td>EU00039</td>
<td>45,221</td>
</tr>
</tbody>
</table>

Economic Alternatives:

All known alternatives were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

**JOINT USE CERTIFICATION:**

This facility can be used by other components on an “as available” basis; however, the scope of the project is based on DoDEA requirements.

DoDEA POC (571) 372-1405

12. Supplemental Data:

Site Approval: Yes [x] Obtained Date: July 2015

No [ ] Expected Date:

Issues:

- a. DDESAB, AICUZ, Airfield, EMR, or wetlands: No issue
- b. Endangered species/sensitive habitat: No issue
- c. Air quality: No issue
- d. Cultural/archeological resources: No issue
- e. Clearing of trees: Clearing of trees is required and will require tree replacement
- f. Known contamination at selected site: No issue
- g. Operational problems: No issue
- h. Traffic patterns impact: Relocation of road to maximize site area
- i. Existing utilities upgrade: Water services will require creating a loop for improved water quality, rerouting of power main on site, relocation of communication line
- j. Ordnance sweep required prior to construction: No issue

Planning:
Consistent with Installation Master Plan: Yes

Host Nation Approval: Germany, NA

National Capital Region Approval: NA

NEPA Documentation Complete: Not required
Level of NEPA: Categorical Exclusion

Mitigation Issues:

- a. Wetlands replacement/enhancement – N
- b. Hazardous Waste – N
- c. Contaminated soil/water – N
- d. Other – N
## FY 2017 MILITARY CONSTRUCTION PROJECT DATA

### 1. COMPONENT
DoDEA

### 2. Date
February 2016

### 3. INSTALLATION AND LOCATION
USAG Kaiserslautern, Sembach Kaserne, Germany

### 4. PROJECT TITLE:
Sembach Elementary & Middle School Replacement

### 5. PROGRAM ELEMENT
6. CATEGORY CODE
73046

### 7. PROJECT NUMBER
EU00039

### 8. PROJECT COST ($000)
45,221

---

#### A. Design Data (Estimated):

1. **Status:**
   - (a) Design Start Date: FEB 2015
   - (b) Parametric Cost Estimate Used to Develop Costs: YES
   - (c) Percent of Design Completed as of 1 Jan 2016: 15%
   - (d) Expected 35% Design Date: JAN 2017
   - (e) 100% Design Completion Date: MAY 2017
   - (f) Type of Design Contract: Design/Bid/Build

2. **Basis:**
   - (a) Standard or Definitive Design - (YES/NO): NO
   - (b) Date Design was Most Recently Used: N/A

3. **Total Design Cost (c)=(a)+(b) OR (d)+(e):**
   - (a) Production of Plans and Specifications: 5,529
   - (b) All Other Design Costs: 3,317
   - (c) In-house(40% of the 10% in line c): 2,212

4. **Construction Contract Award Date:** JUL 2017

5. **Construction Start Date:** SEPT 2017

6. **Construction Completion Date:** MAY 2019

---

#### B. Equipment associated with this project which will be provided from other appropriations: (The table below should be populated with the numbers generated from the O&M Appropriated Equipment Estimating Sheet.)

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Procuring</th>
<th>Appropriated Fiscal Year</th>
<th>Cost ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furnishings</td>
<td>O&amp;M</td>
<td>2020</td>
<td>575</td>
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<tr>
<td>Kitchen</td>
<td>O&amp;M</td>
<td>2020</td>
<td>375</td>
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<tr>
<td>IT</td>
<td>O&amp;M</td>
<td>2020</td>
<td>1,245</td>
</tr>
<tr>
<td>Education Supplies</td>
<td>O&amp;M</td>
<td>2020</td>
<td>1,246</td>
</tr>
<tr>
<td>Safety Equipment</td>
<td>O&amp;M</td>
<td>2020</td>
<td>5</td>
</tr>
<tr>
<td>Security Equipment</td>
<td>O&amp;M</td>
<td>2020</td>
<td>57</td>
</tr>
</tbody>
</table>
1. COMPONENT: DoDEA

2. Date: February 2016

3. Installation and Location: Kadena Air Base, Japan

4. COMMAND: DoDEA

5. AREA CONSTRUCTION COST INDEX: 1.77

6. PERSONNEL STRENGTH

<table>
<thead>
<tr>
<th></th>
<th>PERMANENT</th>
<th>STUDENTS</th>
<th>SUPPORTED</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OFFICER</td>
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<td>CIVILIAN</td>
<td>OFFICER</td>
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<td>a. AS OF 30 SEP 2015</td>
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<tr>
<td>b. END FY 2020</td>
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7. INVENTORY DATA ($000)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
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<tr>
<td>TOTAL ACREAGE</td>
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</tr>
<tr>
<td>INVENTORY TOTAL AS OF</td>
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</tr>
<tr>
<td>AUTHORIZATION NOT YET IN INVENTORY</td>
<td>0</td>
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<tr>
<td>AUTHORIZATION REQUESTED IN THIS PROGRAM</td>
<td>84,918</td>
</tr>
<tr>
<td>AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM</td>
<td>0</td>
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<tr>
<td>PLANNED IN NEXT THREE PROGRAM YEARS</td>
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<tr>
<td>REMAINING DEFICIENCY</td>
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<tr>
<td>GRAND TOTAL</td>
<td>84,918</td>
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8. PROJECTS REQUESTED IN THIS PROGRAM

<table>
<thead>
<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST  ($000)</th>
<th>DESIGN START</th>
<th>STATUS COMPLETE</th>
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<tbody>
<tr>
<td>730787</td>
<td>Kadena Elementary School Replacement</td>
<td>140,542 SF</td>
<td>84,918</td>
<td>MAY 2015</td>
<td>DEC 2019</td>
</tr>
</tbody>
</table>

9. FUTURE PROJECTS

a. INCLUDED IN FOLLOWING PROGRAM
   None

b. PLANNED IN NEXT THREE YEARS
   Stearley Heights Elementary School, Replacement

10. MISSION OR MAJOR FUNCTIONS
    Military Dependent Education
1. COMPONENT: DoDEA

2. Date: February 2016

3. INSTALLATION AND LOCATION: Kadena Air Base, Japan

4. PROJECT TITLE: Kadema Elementary School Replacement

5. PROGRAM ELEMENT

6. CATEGORY CODE: 730787

7. PROJECT NUMBER: PA00032

8. PROJECT COST ($000): 84,918

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>Item</th>
<th>U/M</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Cost ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY FACILITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KADENA ELEMENTARY SCHOOL (730787)</td>
<td>SF</td>
<td>140,542</td>
<td>373.67</td>
<td>52,517</td>
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<tr>
<td>SDD AND FEDERAL ENERGY ACTS COMPLIANCE</td>
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<td>SUPPORTING FACILITIES</td>
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<tr>
<td>SPECIAL CONSTRUCTION FEATURES (Pile Foundation)</td>
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<tr>
<td>CANOPIES</td>
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<tr>
<td>ELECTRICAL UTILITIES</td>
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</tr>
<tr>
<td>COMMUNICATION UTILITIES</td>
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<td></td>
<td>522</td>
</tr>
<tr>
<td>WATER/SEWER/UTILITIES</td>
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<td></td>
<td>468</td>
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<tr>
<td>MECHANICAL UTILITIES</td>
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<td>ROADS, SIDEWALKS AND PARKING</td>
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<tr>
<td>SITE IMPROVEMENTS</td>
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<td>AT/FP</td>
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<tr>
<td>ENVIRONMENTAL MITIGATION</td>
<td>LS</td>
<td></td>
<td></td>
<td>121</td>
</tr>
</tbody>
</table>

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a multi-story elementary school composed of reinforced concrete and steel with a combination of spread footings and deep pile foundation system. Interior construction will consist of reinforced concrete walls for corridors, and learning studios, restrooms, mechanical rooms, meeting rooms, and counseling rooms; operable/movable partition walls within the neighborhood and learning studios. Interior spaces include neighborhoods, studios, learning hubs, staff collaboration areas, a career technical education lab, computing center, science labs, art room, music suites, occupational therapy/physical therapy (OT/PT), a commons area, performance space, information center, a physical education area with gymnasium, food service, administrative offices, guidance counseling center, a special education office, health services area, maintenance support, central storage area, technology service center and other required support areas for a fully functioning elementary school. The project includes site improvements such as asphaltic concrete paving, sidewalks, covered walkways, curbs, gutters, storm drainage, parking, parent drop-off and parking areas, bus drop-off area, service area with loading dock, playgrounds and hard court play areas, outdoor learning areas, signage, fencing, landscaping, fire lane/service access way around the building as well as site/security lighting. Cafeteria, food service and information center areas were sized for the future elementary school population.

Antiterrorism/force protection (AT/FP) features will include: windows and frames, exterior doors, air intakes, structural isolation, roof access, emergency air distribution shutoff, and mass notification system. Site AT/FP features include drop arm gate and retractable bollards with concrete foundations.
1. COMPONENT
   DoDEA

2. Date
   February 2016

3. INSTALLATION AND LOCATION
   Kadena Air Base, Japan

4. PROJECT TITLE:
   Kadena Elementary School Replacement

5. PROGRAM ELEMENT
   6. CATEGORY CODE
       730787

7. PROJECT NUMBER
   PA00032

8. PROJECT COST ($000)
   84,918

The project includes related infrastructure such as mechanical rooms and infrastructure utilities including water, sewer, communication, cable television and electrical to support the facilities.

The project will require demolition of two buildings for approximately 136,155 SF.

Other special construction and costs include a fire pump house, deep pile foundations due to poor soil conditions in the region, and hazardous materials abatement with required transportation of friable asbestos-containing materials off the island of Okinawa.

Sustainable principles will be maximized in the design, development and construction of the project in accordance with Executive Order 13123 and other applicable laws and executive orders. Energy conservation and environmentally safe measures will be incorporated in this project wherever feasible, practical or required by regulation. Energy and natural resource conservation measures will be maximized in the design to the extent possible. In accordance with Leadership in Energy and Environmental Design (LEED) for Schools, Silver certifiable will be the goal of the project.

Facilities will be designed in accordance with DoDEA Education Facilities Specifications, Americans with Disabilities Act (ADA) Accessibility Guidelines/Architectural Barriers Act (ABA), National Fire Protection Association (NFPA) Life Safety Code, Standards of Seismic Safety for Federally Owned Buildings, and energy and water conservation standards.

Air Conditioning Load: 500 tons

11. REQUIREMENT: 140,542 SF        ADQT: 0        SUBSTD: 136,155 SF

PROJECT:

Replace the existing elementary school facility by constructing a new elementary school facility.

REQUIREMENT:

The new school is required to provide adequate academic facilities for 806 students in grades PreK through 5th grade. School population based on 2020 school year projection.

CURRENT SITUATION:

The current Kadena Elementary School is a 136,155 SF facility that was originally constructed in 1955. Additional buildings were added in 1960 and 1971. One temporary modular classroom building was provided in 1999 and two more were provided in 2003. The school has a poor facility condition rating; it is more economical to replace than to repair. The following systems are expired or are failing and in need of replacement: exterior finishes, exterior windows, roofs, interior ceiling, wall and floor finishes, interior and exterior doors, casework, plumbing fixtures, toilet partitions/accessories, intercom PA, branch circuits, emergency lights, exit lights, as well as other building system components and specialties. The facility does not meet the DoDEA’s Education Facilities Specifications to include program adjacencies, sizes, and functionality. The facility does not meet current AT/FP, ADA, and NFPA and does not meet current federal energy and sustainability mandates.

IMPACT IF NOT PROVIDED:

The continued use of deficient, inadequate, and undersized facilities that do not accommodate the current student population will continue to impair the overall education program for students. If a new facility is not provided, the substandard environment will continue to hamper the educational process and the school will not be able to support the
1. COMPONENT
DoDEA

2. Date
February 2016

3. INSTALLATION AND LOCATION
Kadena Air Base, Japan

4. PROJECT TITLE:
Kadena Elementary School Replacement

5. PROGRAM ELEMENT

6. CATEGORY CODE
730787

7. PROJECT NUMBER
PA00032

8. PROJECT COST ($000)
84,918

curriculum and provide for a safe facility. The required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets if the facility is not replaced.

ADDITIONAL:

This project has been coordinated with the installation physical security plans and all AT/FP measures are included.

Economic Alternatives:

All known alternatives were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

JOINT USE CERTIFICATION:

This facility can be used by other components on an “as available” basis; however, the scope of the project is based on DoDEA requirements.

DoDEA POC (571) 372-1405

12. Supplemental Data:

Site Approval: Yes ☒ Obtained Date: Jan 2013

No ☐ Expected Date:

Issues:

a. DDES, AICUZ, Airfield, EMR, or wetlands: No Issue
b. Endangered species/sensitive habitat: No Issue
c. Air quality: No Issue
d. Cultural/archeological resources: Possible Issue during construction; cultural asset monitoring is required due to host nation sensitivities, to handle any asset that is discovered during site disturbing activities.
e. Clearing of trees: Maintain existing banyan trees
f. Known contamination at selected site: No Issue
g. Operational problems: No Issue
h. Traffic patterns impact: No Issue
i. Existing utilities upgrade: No Issue
j. Ordnance sweep required prior to construction: No Issue

Planning:
Consistent with Installation Master Plan: Yes

Host Nation Approval: N/A

National Capital Region Approval: N/A

NEPA Documentation Complete: not required
Level of NEPA: N/A
1. COMPONENT
DoDEA

FY 2017 MILITARY CONSTRUCTION PROJECT DATA

2. Date
February 2016

3. INSTALLATION AND LOCATION
Kadena Air Base, Japan

4. PROJECT TITLE:
Kadena Elementary School Replacement

5. PROGRAM ELEMENT
6. CATEGORY CODE
730787

7. PROJECT NUMBER
PA00032

8. PROJECT COST ($000)
84,918

Mitigation Issues:

a. Wetlands replacement/enhancement – N
b. Hazardous Waste – Y – Asbestos-containing materials are present in the existing school. Materials shall be abated and disposed of per Kadena Air Base standards before existing school can be demolished.
c. Contaminated soil/water – N
d. Other – N

A. Design Data (Estimated):

(1) Status:
(a) Design Start Date
MAY 2015
(b) Parametric Cost Estimate Used to Develop Costs
Yes
(c) Percent of Design Completed as of 1 Jan 2016
15%
(d) Expected 35% Design Date
FEB 2016
(e) 100% Design Completion Date
FEB 2017
(f) Type of Design Contract:
Design/Bid/Build

(2) Basis:
(a) Standard or Definitive Design - (YES/NO)
NO
(b) Date Design was Most Recently Used
N/A

(3) Total Design Cost (c)=(a)+(b) OR (d)+(e):
(a) Production of Plans and Specifications
(b) All Other Design Costs
(c) Total Design Cost
10,865
(d) Contract
6,520
(e) In-house
4,345

(4) Construction Contract Award Date
JUL 2017

(5) Construction Start Date
SEP 2017

(6) Construction Completion Date
DEC 2019

B. Equipment associated with this project which will be provided from other appropriations:

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Fiscal Year</th>
<th>Appropriation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furnishings</td>
<td>2019</td>
<td>O&amp;M</td>
</tr>
<tr>
<td>Kitchen</td>
<td>2019</td>
<td>O&amp;M</td>
</tr>
<tr>
<td>IT</td>
<td>2019</td>
<td>O&amp;M</td>
</tr>
<tr>
<td>Education Supplies</td>
<td>2019</td>
<td>O&amp;M</td>
</tr>
<tr>
<td>Safety Equipment</td>
<td>2019</td>
<td>O&amp;M</td>
</tr>
<tr>
<td>Security Equipment</td>
<td>2019</td>
<td>O&amp;M</td>
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<table>
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<tr>
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</table>
1. COMPONENT
DoDEA

2. Date
February 2016

3. Installation and Location
RAF Croughton, United Kingdom

4. COMMAND
DoDEA

5. AREA CONSTRUCTION COST INDEX
1.11

6. PERSONNEL STRENGTH

<table>
<thead>
<tr>
<th></th>
<th>PERMANENT</th>
<th>STUDENTS</th>
<th>SUPPORTED</th>
<th>TOTAL</th>
</tr>
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<tr>
<td></td>
<td>OFFICER</td>
<td>ENLISTED</td>
<td>CIVILIAN</td>
<td>OFFICER</td>
</tr>
<tr>
<td>a. AS OF 30 SEP 2015</td>
<td>504</td>
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<tr>
<td>b. END FY 2020</td>
<td>468</td>
<td></td>
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<td>468</td>
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</table>

7. INVENTORY DATA ($000)

- TOTAL ACREAGE: 0
- INVENTORY TOTAL AS OF: 0
- AUTHORIZATION NOT YET IN INVENTORY: 0
- AUTHORIZATION REQUESTED IN THIS PROGRAM: 71,424
- AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM: 0
- PLANNED IN NEXT THREE PROGRAM YEARS: 0
- REMAINING DEFICIENCY: 0
- GRAND TOTAL: 71,424

8. PROJECTS REQUESTED IN THIS PROGRAM

<table>
<thead>
<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST ($000)</th>
<th>DESIGN START</th>
<th>STATUS COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>730787</td>
<td>Croughton Elementary, Middle, High School Replacement</td>
<td>151,271 SF</td>
<td>71,424</td>
<td>FEB 15</td>
<td>MAY 2020</td>
</tr>
</tbody>
</table>

9. FUTURE PROJECTS

a. INCLUDED IN FOLLOWING PROGRAM
   None

b. PLANNED IN NEXT THREE YEARS
   None

10. MISSION OR MAJOR FUNCTIONS
    Military Dependent Education
1. COMPONENT
DoDEA

2. Date
February 2016

3. INSTALLATION AND LOCATION
RAF Croughton, United Kingdom

4. PROJECT TITLE:
Croughton Elementary, Middle, High School Replacement

5. PROGRAM ELEMENT

6. CATEGORY CODE
730787

7. PROJECT NUMBER
EU00101

8. PROJECT COST ($000)
71,424

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>Item</th>
<th>U/M</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Cost ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY FACILITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CROUGHTON ELEMENTARY SCHOOL (730-787)</td>
<td>SF</td>
<td>46,854</td>
<td>292.07</td>
<td>13,685</td>
</tr>
<tr>
<td>CROUGHTON MIDDLE &amp; HIGH SCHOOL (730-787)</td>
<td>SF</td>
<td>104,417</td>
<td>294.16</td>
<td>30,715</td>
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<tr>
<td>SDD AND FEDERAL ENERGY ACTS COMPLIANCE</td>
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<td></td>
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</tr>
<tr>
<td>SUPPORTING FACILITIES</td>
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<tr>
<td>CANOPIES</td>
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<td>567</td>
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<tr>
<td>ELECTRICAL/GAS UTILITIES</td>
<td>LS</td>
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<td></td>
<td>712</td>
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<tr>
<td>COMMUNICATION UTILITIES</td>
<td>LS</td>
<td></td>
<td></td>
<td>255</td>
</tr>
<tr>
<td>WATER/SEWER/UTILITIES (Includes storm drainage)</td>
<td>LS</td>
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<td></td>
<td>1,300</td>
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<tr>
<td>MECHANICAL UTILITIES</td>
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<td>1,200</td>
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<tr>
<td>SITE PREPARATION</td>
<td>LS</td>
<td></td>
<td></td>
<td>350</td>
</tr>
<tr>
<td>ROADS, SIDEWALKS AND PARKING</td>
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<td>2,311</td>
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<tr>
<td>SITE IMPROVEMENTS</td>
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<tr>
<td>AT/FP</td>
<td>LS</td>
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<td>284</td>
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<tr>
<td>LOW IMPACT DEVELOPMENT</td>
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<tr>
<td>ESTIMATED CONTRACT COST</td>
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<td></td>
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<td>61,112</td>
</tr>
<tr>
<td>CONTINGENCY PERCENT (5%)</td>
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<td></td>
<td></td>
<td>3,056</td>
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<tr>
<td>SUBTOTAL</td>
<td></td>
<td></td>
<td></td>
<td>64,168</td>
</tr>
<tr>
<td>SUPERVISION, INSPECTION &amp; OVERHEAD (6.5%)</td>
<td></td>
<td></td>
<td></td>
<td>4,171</td>
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<tr>
<td>DESIGN/BUILD (4%)</td>
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<td></td>
<td></td>
<td>2,444</td>
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<tr>
<td>ENGINEERING DURING CONSTRUCTION (1%)</td>
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<td>641</td>
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<tr>
<td>TOTAL REQUEST</td>
<td></td>
<td></td>
<td></td>
<td>71,424</td>
</tr>
<tr>
<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON ADD)</td>
<td></td>
<td></td>
<td></td>
<td>3,712</td>
</tr>
</tbody>
</table>

10. DESCRIPTION OF PROPOSED CONSTRUCTION:

Construct a multi-story elementary/middle/high school composed of concrete foundation, steel frame and masonry external walls. Interior construction will consist of stud partition walls and include operable/moveable partition walls. Interior spaces include neighborhoods, studios, learning hubs, staff collaboration areas, a career technical education lab, computing center, science labs, art room, music suites, occupational therapy/physical therapy (OT/PT), a commons area, performance space, information center, a physical education area with gymnasium, food service, administrative offices, guidance counseling center, a special education office, health services area, maintenance support, central storage area, technology service center and other required areas for a fully functioning elementary, middle, high school. The project includes site improvements such as signage, fencing, paving, landscaping, covered walkways, exterior lighting, utilities, sports fields, track and playground areas. Cafeteria, food service and information center areas were sized for the future elementary, middle, high school population.

The project includes related infrastructure such as water, sewer, electrical and gas, staff and visitor parking areas, parent drop off lane, mechanical rooms, emergency access lanes, bus loading/unloading areas, and delivery areas.

The project will require no demolition of any existing buildings.

Sustainable principles will be maximized in the design, development and construction of the project in accordance with Executive Order 13123 and other applicable laws and executive orders. Energy conservation and environmentally safe
1. COMPONENT  
DoDEA

2. Date  
February 2016

3. INSTALLATION AND LOCATION  
RAF Croughton, United Kingdom

4. PROJECT TITLE:  
Croughton Elementary, Middle, High School Replacement

5. PROGRAM ELEMENT  
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730787

7. PROJECT NUMBER  
EU00101

8. PROJECT COST ($000)  
71,424

measures will be incorporated in this project wherever feasible, practical or required by regulation. Energy and natural resource conservation measures will be maximized in the design to the extent possible. In accordance with Leadership in Energy and Environmental Design (LEED) for Schools. Silver certification will be the goal for this project.

Facilities will be designed in accordance with DoDEA Education Facilities Specifications, Americans with Disabilities Act (ADA) Accessibility Guidelines/Architectural Barriers Act (ABA), National Fire Protection Association (NFPA) Life Safety Code, Standards of Seismic Safety for Federally Owned Buildings, and energy and water conservation standards and with all relevant Host Nation Regulations, British Standards and Codes of Practice.

Air Conditioning Load: 0 Tons

11. REQUIREMENT 151,271 SF  
ADQT: 0 SF  
SUBSTD: 88,379 SF

PROJECT:
This project constructs a new elementary/middle/high school facility.

REQUIREMENT:
The new school is required to provide adequate academic facilities for 468 students in grades K through 12 levels. School population based on 2020 school year.

CURRENT SITUATION:
The current Croughton Elementary School is an 88,379 SF facility that was originally constructed in 1985. The school has a poor facility condition rating; it is more economical to replace than to repair. The following systems are expired or are failing and in need of replacement; ventilation systems, electrical wiring, plumbing, heating, CCTV and parking facilities. The facility does not meet the DoDEA’s Education Facilities Specifications to include 21st Century curriculum and educational objectives. The facility does not meet current antiterrorism/force protection (AT/FP), ADA and NFPA standards and does not meet current federal energy and sustainability mandates.

IMPACT IF NOT PROVIDED:
The continued use of deficient, inadequate, and undersized facilities that do not accommodate the current student population and will continue to impair the overall education program for students. If a new facility is not provided, the substandard environment will continue to hamper the educational process and the school will not be able to support the curriculum and provide for a safe facility. The required maintenance and repair of expired and failing systems will continue to strain maintenance capabilities and budgets if the facility is not replaced.

ADDITIONAL:
This project has been coordinated with the installation physical security plans and all AT/FP measures are included.

Economic Alternatives:
All known alternatives were considered during the development of this project. No other option could meet the mission requirements; therefore, no economic analysis was needed or performed.

JOINT USE CERTIFICATION:
1. COMPONENT
DoDEA

2. Date
February 2016

3. INSTALLATION AND LOCATION
RAF Croughton, United Kingdom

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This facility can be used by other components on an “as available” basis; however, the scope of the project is based on DoDEA requirements.

DoDEA POC (571) 372-1405

12. Supplemental Data:

Site Approval: Yes [X] Obtained Date: Nov 2012

Issues: (state no issue or BRIEFLY explain the issue below)

a. DDESAB, AICUZ, Airfield, EMR, or wetlands: No Issue
b. Endangered species/sensitive habitat: No Issue
c. Air quality: No Issue
d. Cultural/archeological resources: No Issue
e. Clearing of trees: No Issue
f. Known contamination at selected site: No Issue
g. Operational problems: No Issue
h. Traffic patterns impact: No Issue
i. Existing utilities upgrade: No Issue
j. Ordnance sweep required prior to construction: No Issue

Planning:
Consistent with Installation Master Plan: Yes

Host Nation Approval: N/A

National Capital Region Approval: N/A

NEPA Documentation Complete: Not required
Level of NEPA: Categorical Exclusion

Mitigation Issues:

a. Wetlands replacement/enhancement – N
b. Hazardous Waste – N
c. Contaminated soil/water – N
d. Other – N

A. Design Data (Estimated):

(1) Status:
(a) Design Start Date
Feb 2015
(b) Parametric Cost Estimate Used to Develop Costs
YES
(c) Percent of Design Completed as of 1 Jan 2016
15%
(d) Expected 35% Design Date
Nov 2016
(e) 100% Design Completion Date
May 2018
(f) Type of Design Contract:
Design/Build

(2) Basis:
1. COMPONENT  
DoDEA

2. Date  
February 2016

3. INSTALLATION AND LOCATION  
RAF Croughton, United Kingdom

4. PROJECT TITLE:  
Croughton Elementary, Middle, High School Replacement

5. PROGRAM ELEMENT  
6. CATEGORY CODE  
730787

7. PROJECT NUMBER  
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8. PROJECT COST ($000)  
71,424

(a) Standard or Definitive Design - (YES/NO)  
NO

(b) Date Design was Most Recently Used  
N/A

(c) Total Design Cost (10% of the PA)  
4,781

(d) Contract (60% of the 10% in line c)  
2,869

(e) In-house (40% of the 10% in line c)  
1,912

4. Construction Contract Award Date  
Jun 2017

5. Construction Start Date  
Aug 2017

6. Construction Completion Date  
May 2020

B. Equipment associated with this project which will be provided from other appropriations:

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Procuring</th>
<th>Fiscal Year</th>
<th>Appropriated</th>
<th>Cost ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furnishings</td>
<td>O&amp;M</td>
<td>2020</td>
<td>1,119</td>
<td></td>
</tr>
<tr>
<td>Kitchen</td>
<td>O&amp;M</td>
<td>2020</td>
<td>562</td>
<td></td>
</tr>
<tr>
<td>IT</td>
<td>O&amp;M</td>
<td>2020</td>
<td>901</td>
<td></td>
</tr>
<tr>
<td>Education Supplies</td>
<td>O&amp;M</td>
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<tr>
<td>Safety Equipment</td>
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</tr>
<tr>
<td>Security Equipment</td>
<td>O&amp;M</td>
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<td>53</td>
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</tbody>
</table>