

Information Paper

**SUBJECT:** Summary of the Construction of the US Portion of COP Wanat

1. **Purpose.** To present a summary of the proposal for the construction of the US portion of COP Wanat (JFUB #08-316).

2. **Facts.**

a. **General Description:** TF Bayonet requests \$700,964.00 in Operations and Maintenance, Army (OMA) funds to construct the US portion of COP Wanat.

b. **Materials:** All building materials for this project shall be provided by TF Hammer from the CJOA CLIV Yard. Gravel and concrete barriers will be supplied by LN contractor.

c. **Justification:** If not approved, TF Rock will not be able to effectively project combat power into important areas of the district and valley. AAF will continue to enjoy freedom of movement south of Wanat, and continue to conduct intimidation of the unprotected population.

3. **Conclusions/Recommendation.** CJTF-101 approves the JFUB project by signing the Delegation of Authority at TAB I.

Chivas

LTC

(b)(3), (b)(6), (b)(2)

Enclosure (26) PAGE 1 OF 20



REPLY TO  
ATTENTION OF.

**DEPARTMENT OF DEFENSE**  
**HEADQUARTERS, COMBINED/JOINT TASK FORCE (CJTF)-101**  
**BAGRAM AIRFIELD, AFGHANISTAN**  
**APO AE 09354**

CJTF-101-COS

**MEMORANDUM FOR RECORD**

**SUBJECT: Delegation of Authority for Expenditure of Funds**

1. I, COL Brewer (b)(3), (b)(6), approve the expenditure of \$700,964.00 in Operations and Maintenance, Army (OMA) funds to construct the US portion of COP Wanat (JFUB# 08-316).
2. As such, I delegate the authority to sign all DA Forms 3953, Purchase Request and Commitments (PR&Cs), attributed to this project to COL Charles A. Preysler, TF Bayonet Commander. The sum total of individual PR&Cs is not to exceed \$474,674.00. This authority shall not be delegated further.

(b)(3), (b)(6)

Brewer

Colonel, GS  
Chief of Staff



DEPARTMENT OF DEFENSE  
HEADQUARTERS, COMBINED/JOINT TASK FORCE (CJTF)-101  
BAGRAM AIRFIELD, AFGHANISTAN  
APO AE 09354

REPLY TO  
ATTENTION OF:

CJTF-101-JA

14 June 2008

MEMORANDUM FOR CJTF-101-CJ7, Bagram Airfield, Afghanistan, APO AE 09354

SUBJECT: Legal Review of TF Bayonet's Request for Funds to Construct Combat Out Post (COP) Wanat (JFUB 08-316)

1. **PURPOSE:** To determine whether TF Bayonet's request for funds to construct COP Wanat with \$700,964.00 in Operations and Maintenance – Army (OMA) funds is legally sufficient.
2. **SUMMARY:** TF Bayonet's request is legally sufficient.
3. **BACKGROUND:** TF Rock, through TF Bayonet requests \$700,964.00 in OMA funds to construct the United States portion of Combat Out Post (COP) Wanat. The request states the following: Wanat is the historic district center of the Waygul Valley. The extremely rugged and mountainous terrain of the area means the few villages in the district are geographically isolated from each other and from all Kunar Province agencies. Infrastructure is almost nonexistent except for the area immediately around the district center. Due to its isolation, Wanat receives little support from the Kunar Provincial Government. The District's Afghan National Police (ANP) and Government officials are underdeveloped compared to the other districts in the area of operations of TF Rock. The COP would place Coalition and Afghan forces in an ideal position to mentor the Waygul District officials and ANP. It would also act as a connection between the community of Nangalam, the Pech River Valley, and the population of Wanat, via the in-progress Waygul Road. Additionally, by closing down COP Bella and moving personnel to Wanat, TF Rock will be able to project more force, have the ability to receive ground resupply, not be dependent on air-only CASEVAC, and deny the Anti-Afghan Forces (AAF) the ability to conduct illegal traffic control points along the Waygul Road and traverse ground lines of communication. The request states that, without funding, TF Rock would be unable to effectively mentor and build the capacity of the Waygul District's ANP and government officials. TF Rock would continue to operate from COP Bella and would be unable to effectively project combat power into the important areas of the district and valley.
4. **LAW:**
  - a. **Time.** The balance of an appropriation or fund limited for obligation to a definite period is available only for payment of expenses properly incurred during the period of availability or to complete contracts properly made within that period of availability and obligated consistent with section 1501 of this title. However, the appropriation or fund is not available for expenditure for a period beyond the period otherwise authorized by law. 31 U.S.C. §1502(a).
  - b. **Purpose.** Appropriations shall be applied only to the objects for which the appropriations were made except as otherwise provided by law. 31 U.S.C. §1301(a). OMA may be used for expenses, not otherwise provided for, necessary for the operation and maintenance of forces. 109 P.L. 289.

c. Amount. An officer or employee of the United States Government or of the District of Columbia government may not make or authorize an expenditure or obligation exceeding an amount available in an appropriation or fund for the expenditure or obligation. 31 U.S.C. § 1341(a)(1)(A). Except as provided in paragraphs (2) and (3), the Secretary concerned may spend from appropriations available for operation and maintenance amounts necessary to carry out an unspecified minor military construction project costing not more than — (A) \$1,500,000.00 in the case of an unspecified minor military construction project intended solely to correct a deficiency that is life-threatening, health-threatening, or safety-threatening; or (B) \$750,000, in the case of any other unspecified minor military construction project. 10 U.S.C. § 2805(c)(1).

d. Construction: The term "military construction" includes any construction, development, conversion, or extension of any kind carried out with respect to a military installation, whether to satisfy temporary or permanent requirements. A military construction project includes all military construction work, or any contribution authorized by this chapter, necessary to produce a complete and usable facility or a complete and usable improvement to an existing facility (or to produce such portion of a complete and usable facility or improvement as is specifically authorized by law). 10 U.S.C. § 2801(a) and (b). Construction is defined as: (1) The erection, installation, or assembly of a new facility. (2) The addition, expansion, extension, alteration, conversion (in the sense of facility modification caused by a change in facility utilization), or complete replacement of an existing facility. (3) The relocation of a facility from one installation to another. (4) Installed building equipment made a part of the facility. (5) Related site preparation, excavation, filling, landscaping or other land improvements. (6) Foundations, site work and utility work associated with the setup of relocatable buildings. AR 420-18; DA PAM 420-11, para. 1.6.c.

5. DISCUSSION:

a. TF Bayonet's request for OMA funds of \$700,964.00 to build an outpost is an expense, not otherwise provided for, necessary for the operation and maintenance of U.S. forces. This is a bona fide need of Fiscal Year 2008, as long as the work begins on the construction prior to 1 October 2008. If work does not begin prior to 1 October 2008, then Fiscal Year 2009 funds must be used.

b. It should be noted that a portion of this project – construction for Afghan forces – is not included in this request. That portion of the project must be funded with Afghan Security Forces Funds (ASFF). CJ7 has informed us that the US portion of the project alone constitutes a complete and usable facility. Thus, it is unnecessary to conduct an analysis to determine whether the cost of both sectors – the US and the Afghan portions – together amount to greater than the \$750,000 construction threshold. (Incidentally, the package indicates that the total construction costs for both projects together come to \$728,549, which is less than the threshold.) If the cost of the facility appears as if it may exceed \$750,000, construction must stop until higher level authority to proceed is obtained or the project is de-scoped. As drafted and presented, there are no violations as to time, purpose, or amount with this project.

6. CONCLUSION: There is no legal objection to TF Bayonet's request. OMA funding is appropriate for the request in accordance with 110 P.L. 116, 110 P.L. 181, and 10 U.S.C. § 2805(c). Point of contact is the undersigned at DSN (b)(2) or via e-mail at (b)(3), (b)(6), (b)(2) Houston

(b)(3), (b)(6) Houston  
Major, USAF

Deputy Legal Advisor-CJTF-101  
Chief, Contract and Fiscal Law



# STAFF ACTION COVER SHEET

## CJTF-101/REGIONAL COMMAND-EAST



**SUBJECT:** (JFUB #08-316) Construction of COP Wanat

**DATE:** 3 JUN 08

1687

**PROBLEM OR REASON FOR ACTION:**

TF Bayonet requests \$700,964 Operations and Maintenance, Army (OMA) funds to construct COP Wanat.

**FACTS OR DISCUSSION:**

TF Bayonet is requesting \$700,964 in OMA funds to construct COP Wanat. This request consists of \$648,464 in construction costs and \$52,500 in personal property. This COP will provide adequate force protection, combat power projection, quality of life and a helicopter landing zone for personnel operating in the area.

**RECOMMENDATIONS:**

Approve the JFUB Project by signing the coordination/approval section below.

**ACTION OFFICER NAME/SECTION/PHONE/SIGNATURE:**

**SECTION CHIEF NAME/SIGNATURE:**

MAJ (b)(3), (b)(6) Task Force Castle PM (b)(2)

LTC (b)(3), (b)(6) 802<sup>nd</sup> FED Commander

**COORDINATION / APPROVAL**

**APPROVAL / REMARKS: Discussion. (Referrals, Background, Options, Impacts Conclusions from coordination / approval section)**

SECTION	RANK/NAME	CONCURRENCE	INITIALS DATE
FPO	(b)(3), (b)(6)	Concur	(b)(3), (b)(6) 6 JUN 08
CJ4	LTC (b)(3), (b)(6)	JFUB/Comms	(b)(3), (b)(6) 3 JUN 08
CJ6	MAJ (b)(3), (b)(6)	Concur	(b)(3), (b)(6) 3 JUN 08
CJ3	LTC (b)(3), (b)(6)	JFUBS Concur	(b)(3), (b)(6) 3 JUN 08
SJA	(b)(3), (b)(6)	Concur	(b)(3), (b)(6) 3 JUN 08
CJ7	LTC (b)(3), (b)(6)	CONCUR	(b)(3), (b)(6) 3 JUN 08
CJ8	(b)(3), (b)(6)	JFUB/Comms	(b)(3), (b)(6) 3 JUN 08
COS	✓	✓	16 JUN (b)(3), (b)(6)

ENSURE PROJECT OFFICER TRACKING OF COSTS  
 ANA SUPPORT TRACK SEPARATELY - CAPTURE COSTS/  
 COORDINATION W/ CSTRA FOR TITLE 28 FUNDING

JFUB slide? NOT NEEDED FOR REVIEW, ONLY BOARD

Please Return to MAJ (b)(3), (b)(6) CJ7 upon CJ8 coordination.

JFUB Board Date: 7 Jun Approve: (Y) N

Comments:

SCJS TRACKING NUMBER	DATE Logged

LT (b)(3), (b)(6)



REPLY TO  
ATTENTION OF:

**DEPARTMENT OF DEFENSE  
TASK FORCE BAYONET  
173d AIRBORNE BRIGADE COMBAT TEAM  
FOB FENTY, AFGHANISTAN  
APO, AE 09310**

AESE-B

1 May 2008

MEMORANDUM FOR CJTF-82 CJ7

SUBJECT: Operational Needs Statement for Construction of COP Wanat in Kunar Province

1. Request: TF Bayonet requests design support and construction of a new combat outpost (COP) in the Wanat District of Kunar Province. The COP will be located in the vicinity of the current District Center and Afghan National Police Station (b)(2)High and will be a base consisting of both Coalition Forces and the Afghan National Army. TF Bayonet will close COP Bella which is currently located in an unsustainable position.

2. Operational Need:

a. Background: Wanat is the historic district center of the Waygul Valley. The extremely rugged and mountainous terrain of the area means the few villages in the district are geographically isolated from each other and from all Kunar Province agencies. Infrastructure is almost nonexistent except for the area immediately around the district center. Due to its isolation, Wanat receives little support from the Kunar Provincial Government. The District's ANP and Government officials are underdeveloped compared to the other districts in AO Rock. This COP would place Coalition and Afghan Forces in an ideal position to mentor the Waygul District officials and ANP. It would also act as a connection between the community of Nangalam, the Pech River Valley, and the population of Wanat, via the in-progress Waygul Road. Additionally, by closing down COP Bella and moving personnel to Wanat, TF Rock will be able to project more force, have the ability to receive ground resupply, not be dependent on air-only CASEVAC, and deny the Anti-Afghan Forces (AAF) the ability to conduct illegal traffic control points along the Waygul road and traverse ground lines of communication.

b. Discussion: TF Rock has conducted ground reconnaissance, identified a location for the COP and is currently working to de-conflict land ownership at this time. TF Rock plans to occupy the new COP O/A 1 June 2008 in order to provide security for the constructing unit(s). The following requirements are needed to meet Initial Operating Requirement (IOC) conditions:

(b)(2)High

(b)(2)High

c. Priority: High Priority

d. Timeline: Following design, project must route out of cycle for formal JFUB and funding approval. My intent is to start construction o/a 01 JUN in order to reach IOC requirements by the time TF Rock begins Relief in Place (RIP) operations with their replacements.

3. There is no existing master plan, as this is a new location. The proposed site diagram should be used by the design team as the initial concept for COP layout.

4. Impact if not funded: TF Rock will be unable to effectively mentor and build the capacity of the Waygul District's ANP and government officials. TF Rock will continue to operate from COP Bella and unable to effectively project combat power into the important areas of the district and valley. AAF will continue to enjoy freedom of movement south of Wanat, continue to conduct intimidation of the unprotected population, and conduct illegal check points long the Waygul River Road. Finally, TF Rock will continue to occupy a COP that cannot be immediately reinforced via ground, can only receive air resupply, and has little impact on the population of the district.

5. POC for this memorandum is MAJ (b)(3), (b)(6) at VOSIP: (b)(2)High Email: November

(b)(3), (b)(6), (b)(2)

November

(b)(3), (b)(6)

Delta

COL, IN  
Commanding

Enclosures:  
1. Site Layout Concept



REPLY TO  
ATTENTION OF:

DEPARTMENT OF DEFENSE  
TASK FORCE BAYONET  
173d AIRBORNE BRIGADE COMBAT TEAM  
FOB FENTY, AFGHANISTAN  
APO, AE 09310

AESE-B

31 May 2008

MEMORANDUM FOR RECORD

SUBJECT: Revision of Operational Needs Statement for COP Wanat

1. The TF Bayonet ONS for the construction of COP Wanat included the items listed below to achieve IOC. However, based on further analysis ICW TF Rock, these items are no longer necessary to meet IOC conditions.

- a. DFAC: 1 x hard hut to serve as an eating area.
- b. TOC: 1 x hard hut
- c. Fuel storage: 1 x 5,000 gallon fuel blivet with overhead protection

2. Additionally, the TF Rock Commander has added the requirement of a stone and mortar wall to the project. This wall will provide long term perimeter force protection and needs to be included as part of the initial packet due to the long lead time for construction.

3. POC for this memorandum is the undersigned at VOSIP: (b)(2) Email:

(b)(3), (b)(6), (b)(2)

November

(b)(3), (b)(6)

November

MAJ, EN  
Brigade Engineer

Item	Meters	Unit Cost	Remarks
Gravel Required (Cubic Meters)	450	\$35.00	Cost per cubic meter of Gravel
Cost of Gravel	\$15,750		Cu M
Cost for New Construction	\$15,750	100.0%	Percents
			JCO

**FACILITY CONSTRUCTION**

Cost Matrix	Troop Labor	CLI IV	PRC/JCO	KBR	TOTAL
Site Preparation	Y	\$ -	\$ 61,300	\$ -	\$ 61,300
Force Protection	Y	\$ 80,169	\$ 111,580	\$ -	\$ 171,749
Guard Towers	Y	\$ 78,313	\$ 12,000	\$ -	\$ 90,313
Hard Huts	Y	\$ 155,184	\$ 6,320	\$ -	\$ 161,504
Well and Water Distribution	N	\$ 401	\$ 45,100	\$ -	\$ 45,601
Utilities	N	\$ -	\$ 33,500	\$ -	\$ 33,500
Waste Water	N	\$ 3,384	\$ 90,972	\$ -	\$ 94,356
Electrical	Y	\$ 18,344	\$ 55,000	\$ -	\$ 73,344
<b>Total</b>		<b>\$ 315,765</b>	<b>\$ 415,772</b>	<b>\$ -</b>	<b>\$ 731,567</b>

Cost for new construction \$ 731,567

**PERSONAL PROPERTY**

Wlms Heaters, w/ attachments	\$55,000	See Electrical Estimate.
Containerized S&L Units	\$30,000	See Utilities Estimate.
<b>Total</b>	<b>\$85,000</b>	

**TITLE 22 COSTS**

Utilities	\$30,000
Electrical	\$19,513
Hard Huts (3ea)	\$60,564
<b>Total</b>	<b>\$110,077</b>

**PROJECT TOTALS**

<b>SUBTOTAL COST</b>	\$747,317	Does not include contingency
Cost for New Construction	\$747,317	Must be less than \$750,000 for New Construction (LHS = \$1.5M threshold)
Cost for Repair	\$0	Must be less than \$3,000,000 for Repair
Cost for Maintenance	\$0	Must be less than \$3,000,000 for Maintenance

<b>PROJECT TOTAL:</b>	<b>\$822,049</b>	Includes 10% contingency.
<b>CONSTRUCTION TOTAL:</b>	<b>\$728,549</b>	Includes 10% contingency.
<b>PERSONAL PROPERTY TOTAL:</b>	<b>\$93,500</b>	Includes 10% contingency.
<b>TITLE 10 TOTAL:</b>	<b>\$700,964</b>	Includes 10% contingency.
<b>TITLE 22 TOTAL:</b>	<b>\$121,085</b>	Includes 10% contingency.
<b>CLASS IV TOTAL:</b>	<b>\$347,375</b>	Includes 10% contingency.
<b>PR&amp;C TOTAL:</b>	<b>\$474,674</b>	Includes 10% contingency.
<b>LOGCAP TOTAL:</b>	<b>\$0</b>	Includes 10% contingency.

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle, at DSN (b)(2)

420th Engineer Brigade  
 Sharana, Afghanistan  
 APO AE 09311

Number	Item	Description	NSN	Quantity	Unit	Price/Per	Extension	Comments
<b>USG Supplied Materials</b>								
Total USG Value of one Facility:							\$0.00	
<b>JCO</b>								
1	Equipment	Water distributor, w/ operator		1	ea	\$5,700.00	\$5,700.00	8 weeks
2	Equipment	Dozer, w/ operator		2	ea	\$7,500.00	\$15,000.00	8 weeks
3	Equipment	Grader, w/ operator		2	ea	\$8,100.00	16,200.00	8 weeks
4	Equipment	Roller, w/ operator		2	ea	\$7,500.00	15,000.00	8 weeks
5	Equipment	Loader, w/ operator		2	ea	\$4,700.00	9,400.00	8 weeks
Total JCO Value of one Facility:							\$61,300.00	
<b>KBR</b>								
Total KBR Value of one Facility:							\$0.00	
<small> <sup>22</sup> This estimate does not include exterior electrical requirements (secondary distribution nor Prime  <sup>23</sup> This estimate does not include contingency factor.         </small>								
Total Value of one Facility:							\$61,300.00	
Total Number of Facilities requested:							1.00	
<b>Total Value of Project</b>							<b>\$61,300.00</b>	

POC for this estimate is MA (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

420th Engineer Brigade  
 Sharana, Afghanistan  
 APO AE 09311

Number	Item	Description	NSN	Quantity	Unit	Price/Per	Extension	Comments
<b>USFG Supplied Materials</b>								
1	Perimeter and ECP	HESCOs, 10ft, 7' x 5' x 100'	5660-99-189-0183	12	ea	\$4,513.85	\$54,166.20	
2	Perimeter and ECP	Wire, concrete, 50' per roll	5660-00-921-5818	150	ro	\$38.99	\$5,848.50	
3	Perimeter and ECP	Wire, barbed, 1320' per roll	5660-00-224-8683	3	ro	\$43.75	\$131.25	
4	Perimeter and ECP	Picket, U, 60", 111 per bundle	5660-00-270-1587	5	bd	\$5.04	\$25.20	
<b>Total USG Value of one Facility:</b>							<b>\$69,168.75</b>	
<b>JCO</b>								
1	Bunker	C- Bunker, concrete		8	ea	\$700.00	\$5,600.00	
2	Bunker	Texas Bunker, concrete		8	ea	\$500.00	\$4,000.00	
3	Equipment	Loader, w/ operator		2	ea	\$5,000.00	\$10,000.00	
4	Equipment	HYEX, w/ operator		2	ea	\$4,000.00	\$8,000.00	
5	Perimeter Wall	Stone and mortar wall (2'x9'x1510')		481	m	\$180.00	\$82,980.00	
<b>Total JCO Value of one Facility:</b>							<b>\$111,580.00</b>	
<b>KBR</b>								
<b>Total KBR Value of one Facility:</b>							<b>\$8.00</b>	
*** This estimate does not include exterior electrical requirements (secondary distribution nor Prime								
*** This estimate does not include contingency factor.								
<b>Total Value of one Facility:</b>							<b>\$171,748.75</b>	
<b>Total Number of Facilities requested:</b>							<b>1.00</b>	
<b>Total Value of Project</b>							<b>\$171,748.75</b>	

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

420th Engineer Brigade  
 Sharana, Afghanistan  
 APO AE 09311

Number	Item	Description	NSN	Quantity	Unit	Price/Per	Extension	Comments
<b>USG Supplied Materials</b>								
1	Lumber	Lumber, dimensional, 2" x 4" x 12'	5510-01-433-1238	40	ea	\$5.40	216.00	
2	Lumber	Lumber, dimensional, 2" x 6" x 8'	5510-01-433-1317	2	ea	\$2.84	5.28	
3	Lumber	Lumber, dimensional, 2" x 8" x 16'	5510-01-433-1377	10	ea	\$12.00	120.00	
4	Lumber	Lumber, dimensional, 6" x 8" x 12'	5509-00-273-6791	4	ea	\$24.80	99.20	
5	Lumber	Lumber, dimensional, 2" x 12" x 12'		16	ea	\$18.10	289.60	
6	Plywood	Plywood, 4' x 8' x 3/4"	5530-00-818-5073	35	ea	\$21.19	741.65	
7	HESCO	HESCO bastion, 08, 2' x 2' x 10'	5800-09-001-6384	40	ea	\$126.33	5,053.20	
8	HESCO	HESCO bastion, 18, 4'6" x 3'6" x 3.2'	5980-08-335-7888	15	ea	\$645.96	12,689.40	
9	Plexiglass	Plexiglass, 4' x 8' x 1/4"	3330-06-318-2122	2	ea	\$90.63	181.26	
10	Sheeting	Sheeting, plastic, 12' x 100'	8135-00-818-1783	1	ro	\$98.24	98.24	
11	Nail	Nail, 6D	5135-00-010-4688	1	bx	\$94.57	94.57	
12	Screw	Screw, wood, 1"	5305-00-900-2550	1	bg	\$1.52	1.52	
13	Hinge	Bolt hinge, 4"	5340-00-884-1328	2	ea	\$3.96	7.92	
14	Sand bag	Sand bags	8105-01-336-8183	1	hd	\$23.40	23.40	
<b>Total USG Value of one Facility:</b>							<b>\$19,576.24</b>	
<b>JCO</b>								
1	Labor	LN Laborers		10	ea	\$300.00	3,000.00	
<b>Total JCO Value of one Facility:</b>							<b>\$3,000.00</b>	
<b>KBR</b>								
<b>Total KBR Value of one Facility:</b>							<b>\$0.00</b>	
** This estimate does not include exterior electrical requirements (secondary distribution nor Prime								
** This estimate does not include contingency factor.								
<b>Total Value of one Facility:</b>							<b>\$22,576.24</b>	
<b>Total Number of Facilities requested:</b>							<b>4.00</b>	
<b>Total Value of Project</b>							<b>\$90,312.98</b>	

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

36th Engineer Brigade  
Shanana, Afghanistan  
APO AE 09311

Number	Item	Description	NSN	Quantity	Unit	Price/Per	Extension	Comments
<b>USG Support Materials</b>								
1	Structure	Lumber 2" x 4" x 8'	5510-01-433-1216	97	ea	8.04	\$779.88	
2	Structure	Lumber 2" x 4" x 10'	5510-01-433-1244	27	ea	10.24	\$276.48	
3	Structure	Lumber 2" x 4" x 8'	5510-01-433-1317	1	ea	2.84	\$2.84	
4	Structure	Lumber 2" x 8" x 10'	5510-01-433-1377	6	ea	12.00	\$72.00	
5	Structure	Lumber 2" x 10" x 10'	5510-01-433-1510	95	ea	12.00	\$1,140.00	
6	Structure	Lumber 2" x 12" x 12'	local	1	ea	18.10	\$18.10	
7	Structure	Lumber 2" x 12" x 10'	5510-01-433-3830	33	ea	12.80	\$422.40	
8	Structure	Lumber 8" x 8" x 12'	local	90	ea	44.00	\$3,960.00	
9	Structure	Phenoid 4" x 8" x 1/2"	5530-00-815-8958	82	ea	14.38	\$1,180.12	
10	Structure	Phenoid 4" x 8" x 3/4"	5530-00-815-8973	90	ea	21.19	\$1,907.10	
11	Structure	16d Nail 15 8/32 per box .30 nails per lb)	5915-00-753-3866	419	bx	6.79	\$2,845.01	
12	Structure	16d Nail 15 8/32 per box .41 nails per lb)	5315-00-753-3863	185	bx	8.88	\$1,637.80	
13	Structure	17d Roofing Nail 15 8/32 per box .41 nails per lb)	5315-00-898-2736	6	bx	3.27	\$19.62	
14	Structure	2 1/2" Self Tapping Screw	local	5	bx	5.00	\$25.00	
15	Structure	Reaction Fast	5850-00-270-1488	8	ro	70.00	\$560.00	
16	Structure	Composite Metal Roofing	5850-01-081-2783	19	sq	14.50	\$275.50	
17	Structure	Insulation R19 (60 sq. ft. per roll) (for walls and upper floor)	5840-01-020-2170	29	ro	50.00	\$1,450.00	
18	Structure	1/2" Steel Straps (100 per box)	389F12	9	bx	1.72	\$15.48	
19	Structure	Door Knob, leaved entrance door lock	5340-00-886-1202	2	st	11.71	\$23.42	
20	Structure	4" Vinyl Sill	5340-00-884-1326	6	pr	3.98	\$23.76	
21	Structure	4 1/2" Heavy Hinge (10 per box)	5340-00-254-9030	1	bx	13.10	\$13.10	
22	Structure	18" x 104" Plastic Sheeting	5135-00-815-1783	6	ro	59.24	\$355.44	
23	Structure	Polypropylene Sand Bags (1m)	5105-01-336-8183	43	bd	23.40	\$1,006.20	
24	Electrical	48" Light Fixture, downcast, hooded	L258	8	ea	145.00	\$1,160.00	
25	Electrical	4" Cover, porcelain box, for toggle switch	00-284-8287	10	ea	\$19.43	\$194.30	
26	Electrical	2" 1 1/8" Square cover, 2 duplex	00-022-9870	10	ea	\$2.70	\$27.00	
27	Electrical	4" x 2 1/8" Cover, duplex receptacle	00-188-1154	2	ea	\$9.23	\$18.46	
28	Electrical	2 1/2" x 2 1/8" Cover, 20 amp, 1 pole	00-011-2540	10	ea	\$17.86	\$178.60	
29	Electrical	Red Wire 140' 12 AWG cable, 20 per PG	00-055-3688	2	bx	\$2.17	\$4.34	
30	Electrical	Receptacles, duplex, 20V/100V, 2-pole 3-wire	01-000-3283	8	ea	\$1.79	\$14.32	
31	Electrical	#12-2 NMB 18 inch long 100' roll	01-388-1188	2	ro	\$206.00	\$412.00	
32	Electrical	100' of 3, 10 AWG, grey 400V	00-318-2712	2	ro	\$272.42	\$544.84	
33	Electrical	TAPE, black electrical, Super 35	01-285-7042	2	ro	\$2.41	\$4.82	
34	Electrical	Switch, toggle, 20 amp	00-843-0280	2	ea	\$2.88	\$5.76	
35	Electrical	Ballast, Fluorescent, 120, 60Hz (Lamp type F40 T-12 40w)	01-282-0229	12	ea	\$8.82	\$105.84	
<b>Total USG Value of one Facility:</b>							<b>\$19,388.03</b>	
<b>JCO</b>								
1		Chgo, indoor and outdoor, 120V, 60 Hz, with heat strips	8141	2	ea	\$250.00	\$500.00	
2		Stand		29	cm	\$10.00	\$290.00	
<b>Total JCO Value of one Facility:</b>							<b>\$790.00</b>	
<b>KBR</b>								
<b>Total KBR Value of one Facility:</b>							<b>\$0.00</b>	
** This estimate does not include exterior electrical requirements (secondary distribution nor Prime)								
** This estimate does not include contingency factor.								
<b>Total Value of one Facility:</b>							<b>\$20,178.03</b>	
<b>Total Number of Facilities requested:</b>							<b>8.00</b>	
<b>Total Value of Project</b>							<b>\$161,824.24</b>	

POC for this estimate is MA (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

420th Engineer Brigade  
 Sharana, Afghanistan  
 APO AE 09311

Number	Item	Description	NSN	Quantity	Unit	Price/Per	Extension	Comments	
<b>USG Suggested Materials</b>									
1	Water Sundry	Pipe, CPVC SCH 80, 2" x 20'	4710-01-045-4059	20	ea	\$4.25	\$84.80		
2	Water Sundry	Capends, CPVC SCH 80, 2"	4730-00-26103155	20	ea	\$2.58	\$51.20		
3	Water Sundry	Tees, CPVC SCH 80, 2" x 2" x 2"	4730-00-247-8654	2	ea	\$10.01	\$20.02		
4	Water Sundry	Elbows, 90 degree, CPVC SCH 80, 2"	4730-01-237-8184	8	ea	\$1.40	\$11.20		
5	Water Sundry	Valves, ball, CPVC SCH 80, 2"		1	ea	\$19.21	\$19.21		
6	Water Sundry	PVC Primer 1/2 Gal. Purple		10	ea	\$3.47	\$34.70		
7	Water Sundry	CPVC CLEANER 1/2 Gal. Orange		10	ea	\$18.00	\$180.00		
<b>Total USG Value of one Facility:</b>								<b>\$466.93</b>	
<b>JCO</b>									
1	Well	Well, with storage tanks, pumps, and pump house		1	ea	\$45,000.00	\$45,000.00		
2	Water Sundry	Sand		10	cm	\$10.00	\$100.00		
<b>Total JCO Value of one Facility:</b>								<b>\$45,100.00</b>	
<b>KBR</b>									
<b>Total KBR Value of one Facility:</b>								<b>\$0.00</b>	
<small>* This estimate does not include exterior electrical requirements (secondary distribution nor Prime)  <small>** This estimate does not include contingency factor.</small> </small>									
<b>Total Value of one Facility:</b>								<b>\$45,566.93</b>	
<b>Total Number of Facilities Required:</b>								<b>1.00</b>	
<b>Total Value of Project</b>								<b>\$45,566.93</b>	

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

420th Engineer Brigade  
 Sharana, Afghanistan  
 APO AE 09311

Number	Item	Description	NSN	Quantity	Unit	Price/Per	Extension	Comments
<b>USG Supplied Materials</b>								
Total USG Value of one Facility:							\$0.00	
<b>JCO</b>								
1	CLU	SM container, 20' x 8' x 8', wired for 110V, 60Hz		0	ea	\$30,000.00	\$0.00	Personal Property.
2	CLU	SM container, 20' x 8' x 8', wired for 220V, 50Hz		1	ea	\$30,000.00	\$30,000.00	Personal Property, CC35.
3	Equipment	Crane, 10T, w/ operator		1	ea	\$3,500.00	\$3,500.00	
Total JCO Value of one Facility:							\$33,500.00	
<b>KBR</b>								
Total KBR Value of one Facility:							\$0.00	
** This estimate does not include exterior electrical requirements (secondary distribution nor Prime								
** This estimate does not include contingency factor.								
Total Value of one Facility:							\$33,500.00	
Total Number of Facilities requested:							1.00	
Total Value of Project							\$33,500.00	

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

420th Engineer Brigade  
 Sharana, Afghanistan  
 APO AE 09311

Number	Item	Description	NSN	Quantity	Unit	Price/Per	Extension	Comments
<b>USG Supplied Materials</b>								
1	Septic Tank	RESCOs, 1B, 4'6" x 3'6" x 32'	5660-99-835-7666	4	ea	\$845.99	3,383.84	
<b>Total USG Value of one Facility:</b>							<b>\$3,383.84</b>	
<b>JCO</b>								
1	Septic Tank	Septic tank, concrete, 130 PAX		1	ea	\$40,000.00	\$40,000.00	
2	Leach Field	Pipe, 6" PVC SCH 40 DWV x 10 FT		6	ea	\$28.16	\$168.96	
3	Leach Field	Couplings, 6" PVC SCH 40		4	ea	\$8.58	\$34.32	
4	Leach Field	Cap, 6" PVC SCH 40		6	ea	\$6.13	\$36.78	
5	Leach Field	Reducer, PVC SCH 40, 6" x 4"		4	ea	\$8.82	\$35.28	
6	Leach Field	Tee, PVC SCH 40 DWV, 6" x 6" x 6"		125	ea	\$14.71	\$1,838.75	
7	Leach Field	Pipe, PVC SCH 40 DWV, 4" x 10'		125	ea	\$68.90	\$8,612.50	
8	Leach Field	Coupling, PVC SCH 40 DWV, 4"		50	ea	\$2.90	\$145.00	
9	Leach Field	Tee, PVC SCH 40 DWV, 4" x 4" x 4"		45	ea	\$13.57	\$610.65	
10	Leach Field	Cap, PVC SCH 40 DWV, 4"		2	ea	\$1.50	\$3.00	
11	Leach Field	Pipe, PVC SCH 40, 12" x 10'		2	ea	\$70.00	\$140.00	
12	Leach Field	Cap, PVC SCH 40, 12"		15	ea	\$9.50	\$142.50	
13	Leach Field	Primer, PVC, 16 oz, purple		30	ea	\$3.47	\$104.10	
14	Leach Field	Cement, PVC, 16 oz, orange		30	ea	\$4.85	\$145.50	
15	Leach Field	Fabric, geotextile filter		750	sy	\$10.00	\$7,500.00	
16	Leach Field	Sand		400	cm	\$10.00	\$4,000.00	
17	Leach Field	Gravel		400	cm	\$30.00	\$12,000.00	
18	Waste Water Pipes	Pipe, 6" PVC SCH 40 DWV x 10 FT		40	ea	\$28.16	\$1,126.40	
19	Waste Water Pipes	Couplings, 6" PVC SCH 40		40	ea	\$8.58	\$343.20	
20	Waste Water Pipes	Tee, PVC SCH 40 DWV, 6" x 6" x 6"		10	ea	\$14.71	\$147.10	
21	Waste Water Pipes	Elbow, 45 degree, 6" DWV		8	ea	\$48.75	\$374.00	
22	Waste Water Pipes	Cap, 6" PVC SCH 40		6	ea	\$6.13	\$36.78	
23	Equipment	HYEX, w/ operator		1	ea	\$3,750.00	\$3,750.00	
24	Equipment	Loader, w/ operator		1	ea	\$4,250.00	\$4,250.00	
25	Equipment	Dozer, w/ operator		1	ea	\$5,500.00	\$5,500.00	
<b>Total JCO Value of one Facility:</b>							<b>\$90,972.00</b>	
<b>KBR</b>								
<b>Total KBR Value of one Facility:</b>							<b>\$0.00</b>	
<sup>24</sup> This estimate does not include exterior electrical requirements (secondary distribution nor Prime <sup>25</sup> This estimate does not include contingency factor.								
<b>Total Value of one Facility:</b>							<b>\$94,355.82</b>	
<b>Total Number of Facilities requested:</b>							<b>1.00</b>	
<b>Total Value of Project</b>							<b>\$94,355.82</b>	

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

420th Engineer Brigade  
 Sherana, Afghanistan  
 APO AE 09311

Number	Item	Description	MSN	Quantity	Unit	Price/Per	Extension	Comments
<b>USG Supplied Materials</b>								
1	US Electrical Grid	Load Center, outdoor, 225 amp, 32 SPC, with main breakers		2	ea	\$974.00	\$1,948.00	
2	US Electrical Grid	Load Center, outdoor, 100 Amp, 27 SPC, with cover	8110-01-225-0816	0	ea	\$368.00	\$0.00	
3	US Electrical Grid	Ground bar kit, 27 terminals	8625-01-106-2086	2	ea	\$6.84	\$13.68	
4	US Electrical Grid	Ground rod, 5/8" x 8'	8675-00-298-0324	2	ea	\$16.70	\$33.40	
5	US Electrical Grid	Breaker, 20 amp, 1 pole	8625-01-11107392	46	ea	\$3.80	\$174.80	
6	US Electrical Grid	Breaker, 30 amp, 3 pole	8625-01-100-3631	4	ea	\$33.75	\$135.00	
7	US Electrical Grid	Cable, #2 bare Cu		20	ft	\$2.50	\$50.00	
8	US Electrical Grid	Cable, #10 AWG with ground		300	ft	\$13.47	\$4,041.00	
9	US Electrical Grid	Cable, 12/3 NM-B with ground, 250'	8145-00-824-4254	5	ro	\$126.45	\$632.25	
10	US Electrical Grid	Block connector, 3/8"	8975-00-182-1141	2	bc	\$6.19	\$12.38	
11	US Electrical Grid	Pipe, 3" x 10', PVC SCH 40	4710-00-177-1868	150	ea	\$22.89	\$3,433.50	
12	ANA Electrical Grid	Load center, outdoor, 125 amp, 30 SPC, 3R430M1CN or equiv		1	ea	\$4,270.00	\$4,270.00	CC-35
13	ANA Electrical Grid	Enclosure, NEMA 3R, MPC95VP or equiv.		1	ea	\$1,477.00	\$1,477.00	CC-35
14	ANA Electrical Grid	Ground bar kit, 27 terminals	8625-01-106-2086	2	ea	\$6.84	\$13.68	CC-35
15	ANA Electrical Grid	Ground rod, 5/8" x 8'	8675-00-298-0324	2	ea	\$16.70	\$33.40	CC-35
16	ANA Electrical Grid	Cable, #2 bare Cu		20	ft	\$2.50	\$50.00	CC-35
17	ANA Electrical Grid	Breaker, 15 amp, 1 pole, 480 V		20	ea	\$28.00	\$560.00	CC-35
18	ANA Electrical Grid	Breaker, 20 amp, 1 pole, 480 V		20	ea	\$28.00	\$560.00	CC-35
19	ANA Electrical Grid	Cable, 12/3 (BROWN), 800V, 250'	27258001	1	ro	\$378.25	\$378.25	CC-35
20	ANA Electrical Grid	Pipe, 3" x 10', PVC SCH 40	4710-00-177-1868	50	ea	\$22.89	\$1,144.50	CC-35
<b>Total USG Value of one Facility</b>							<b>\$18,344.28</b>	
<b>JCO</b>								
1	US Generator	Generator, 60 KW, 110V/60Hz		0	ea	\$35,000.00	0.00	
2	ANA Generator	Generator, 60 KW, 230V/50Hz		0	ea	\$35,000.00	0.00	
3	US Heater	Heater, W818, with attachments		4	ea	\$11,000.00	\$44,000.00	Personal Property
4	ANA Heater	Heater, W818, with attachments		1	ea	\$11,000.00	\$11,000.00	Personal Property, CC-35
<b>Total JCO Value of one Facility</b>							<b>\$66,000.00</b>	
<b>KBR</b>								
<b>Total KBR Value of one Facility</b>							<b>\$0.00</b>	
<small>           * This estimate does not include exterior electrical requirements (secondary distribution nor Prime            ** This estimate does not include contingency factor         </small>								
<b>Total Value of one Facility:</b>							<b>\$73,344.28</b>	
<b>Total Number of Facilities requested:</b>							<b>1.00</b>	
<b>Total Value of Project</b>							<b>\$73,344.28</b>	

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

420th Engineer Brigade  
 Sharana, Afghanistan  
 APO AE 09311

Number	Item	Description	NSN	Quantity	Unit	Price/Per	Extension	Comments
<b>USG Supplied Materials</b>								
Total USG Value of one Facility:							\$0.00	
<b>JCO</b>								
1	SA	Gravel #1-2		180	cm	\$35.00	6,300.00	
2	HZ	Gravel #5		270	cm	\$35.00	9,450.00	
Total JCO Value of one Facility:							\$15,750.00	
<b>KBR</b>								
Total KBR Value of one Facility:							\$0.00	
** This estimate does not include exterior electrical requirements (secondary distribution nor Prime								
** This estimate does not include contingency factor.								
Total Value of one Facility:							\$15,750.00	
Total Number of Facilities requested:							1.00	
<b>Total Value of Project</b>							<b>\$15,750.00</b>	

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

420th Engineer Brigade  
 Sharana, Afghanistan  
 APO AE 08311

CONSTRUCTION SCHEDULE																	
	WEEKS																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Construct access road.	■																
Site Preparation		■	■	■	■												
Construct HESCO perimeter.			■	■	■	■											
Construct HESCO ECP.				■	■	■	■										
Construct guard towers.					■	■	■	■									
Construct Tent Floors.						■	■	■	■								
Emplace Gravel.			■	■	■	■	■	■									
Construct Stone & Mortar Wall				■	■	■	■	■	■								
Construct Well and Pump House.						■	■	■	■	■							
Install Water Distribution and Collection Piping.							■	■	■	■	■						
Site clean up.																	

POC for this estimate is MAJ (b)(3), (b)(6) CTF Castle DMS, at DSN (b)(2)

Page 20 redacted for the following reason:

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(b)(2)High