

## LIST OF EXHIBITS

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**SUBMITTAL DISTRIBUTION**

<b>L.I. _____, FY-_____, Fort _____</b>																				
<b>DESIGN PHASE</b>		<b>Code 3 Design</b>			<b>Concept/Early Prelim/Prelim Design</b>				<b>60% Design</b>		<b>Final Design</b>					<b>Corrected Final Design</b>				
Submittal Items		Dgn Anal/	Cost		Dgn Anal/	Cost			Cost		Dgn Anal/	Cost			Dgn Anal/	Cost				
		Plans	Narrative	Est	Plans	Narrative	Est	Other	Plans	Est	Plans	Spec	Narrative	Est	Other	Plans	Spec	Narrative	Est	Other
<b>SAS Submittals</b>																				
Design Branch	EN-D	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Structural	EN-DAS	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Architectural	EN-DAS	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Interior Design	EN-DAS	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Mechanical	EN-DEM	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Energy Analysis	EN-DEM	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Fire Protection	EN-DEM	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Electrical	EN-DEM	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Environmental	EN-DG	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Site Development	EN-DG	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Geotechnical	EN-GG	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
HTRW	EN-GH	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Soils/Geotech	EN-GS	1	1	0	1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
Cost Engineering	EN-EC	1	1	0	1	1	1	0	1	1	1	1	1	1	0	0	0	0	1	0
Specifications	EN-DGO	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
CADD	EN-EP	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Files	EN-ESF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Project Manager	PM-M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Construction	CD-QT	0	0	0	0	0	0	0	0	0	2	2	0	0	0	1	1	0	0	0
Value Engineer	EN-V	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Originals (Full/Half Size)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
<b>Subtotal</b>		<b>17</b>	<b>16</b>	<b>2</b>	<b>19</b>	<b>18</b>	<b>5</b>	<b>2</b>	<b>17</b>	<b>3</b>	<b>19</b>	<b>19</b>	<b>16</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>3</b>
<b>External Submittals</b>																				
Installation		12	12	1	12	12	1	0	2	1	12	12	12	1	1	2	2	2	1	0
Area Engineer		1	1	0	1	1	0	0	0	0	2	2	0	0	0	1	1	0	0	0
USAISEC-CONUS		0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0
COS Design Agency		1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Army Ctr of Excellence (Din Fac)		1	1	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
ITR Agency		0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	0	0
MACOM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SAD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HQ USACE		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OACSIM		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design A-E		3	3	1	3	3	1	1	3	1	3	3	3	1	1	0	0	0	0	0
<b>Subtotal</b>		<b>19</b>	<b>19</b>	<b>3</b>	<b>19</b>	<b>19</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>2</b>	<b>20</b>	<b>20</b>	<b>17</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0</b>
<b>Total</b>		<b>36</b>	<b>35</b>	<b>5</b>	<b>38</b>	<b>37</b>	<b>7</b>	<b>3</b>	<b>22</b>	<b>5</b>	<b>39</b>	<b>39</b>	<b>33</b>	<b>5</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>6</b>	<b>5</b>	<b>3</b>

Predesign Checklist

LOCATION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FY: \_\_\_\_\_ LINE NO.: \_\_\_\_\_ DESCRIPTION: \_\_\_\_\_  
 DIRECTIVE NO.: \_\_\_\_\_ DATE: \_\_\_\_\_ SCOPE: \_\_\_\_\_  
 BASIS OF DESIGN: ORIGINAL: \_\_\_\_\_ DEFINITIVE: \_\_\_\_\_ SITE ADAPT: \_\_\_\_\_

	P r e d e s i g n	C o n c e p t	P r e l i m i n a r y	F i n a l	
Item					Remarks

A. General Sitting: **(CESAS-PM)**

- 1. Complies with Master Plan: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Orientation: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Clean Site: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3.a. DPW letter on hand: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4. Future Expansion: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 5. Relocation's: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6. Demolition: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6.a. By whom: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6.b. Date: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 7. Real Estate Action: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 8. Phasing: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 9. Special working Restrictions: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 10. Special Problems: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

B. Criteria: **(CESAS-PM)**

- 1. Approved Site Plan: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Design Cost Target: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Functional Dsgn Data: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4. Engineering Inst.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 5. Specific Inst.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

C. Basic Information: **(CESAS-PM)**

- 1. Topography: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Existing Imp: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Foundation Survey: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4. As-Built Plans: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4.a. Bldg.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4.b. Utilities: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 5. Utility Outage Req.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6. Street Crossing restr: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 7. Other Restrictions: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

D. Building (Structural): **(CESAS-EN-DAS)**

- 1. Special Foundations: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Special Loading: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Framing: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

Pre-design Checklist

E. Building (Architectural): **(CESAS-EN-DAS)**

- 1. Type (AFM 88-15): \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.a. "N": \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.b. "C": \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.c. Fire Resistive: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Type AR 210-18: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Type EM 1110-3-101: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4. Construction Materials: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4.a. Optional dsgns: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4.b. Departure frm plans: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4.c. Special Reqs: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 5. Painting (Color Ref.): \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6. Security Features: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6.a. Hardware: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6.b. Penetration: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6.c. Values: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 7. Master Keying: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 8. Materials in short supply: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 9. Mat long proc time: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 10. Other: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

F. Building (Mechanical): **(CESAS-EN-DEM)**

- 1. Heat., Vent., & Air Conditioning:
  - 1.a. Type:
    - 1.a.1. Heat \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
    - 1.a.2. Vent: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
    - 1.a.3. A C: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.b. Controlling Design Factors: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.c. Humidity: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.d. Temp Special Req.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.e. Heat Generation of Equipment (by room): \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.f. Outside Air Req.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.g. Diversity Factors: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.h. Personnel Loads: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.i. Type Fuel: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.j. Standby: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.k. Outage Requirements on Existing Systems: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Steam: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Refrigeration: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4. Compressed Air: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

Predesign Checklist

	( )	( )	( )	( )	
5. Controls: _____ _____	( )	( )	( )	( )	_____
6. Venting: _____ _____	( )	( )	( )	( )	_____
7. Special Access: _____ _____	( )	( )	( )	( )	_____
8. Space Allocation: _____ _____	( )	( )	( )	( )	_____
9. Separate Boiler Plant: _____	( )	( )	( )	( )	_____
10. Separate Equip. Room: _____	( )	( )	( )	( )	_____
11. Phasing Requirements: _____ _____	( )	( )	( )	( )	_____
12. Optional Materials: _____ _____	( )	( )	( )	( )	_____
13. Plumbing:					
13.a. Special Features: _____	( )	( )	( )	( )	_____
13.b. Rough-in for equipment: _____	( )	( )	( )	( )	_____
13.c. Fixtures: _____	( )	( )	( )	( )	_____
13.d. Sumps: _____	( )	( )	( )	( )	_____
13.e. Avail Pressure: _____	( )	( )	( )	( )	_____
13.f. Optional Materials: _____	( )	( )	( )	( )	_____
14. Sound Suppression: _____	( )	( )	( )	( )	_____
15. Fire Protection:					
15.a. Sprinklers:					
15.a.1. Type: _____	( )	( )	( )	( )	_____
15.a.2. GPM: _____	( )	( )	( )	( )	_____
15.a.3. Demand: _____	( )	( )	( )	( )	_____
15.a.4. GPM: _____	( )	( )	( )	( )	_____
15.a.5. Storage: _____	( )	( )	( )	( )	_____
15.b. Hose racks: _____	( )	( )	( )	( )	_____
15.c. Extinguishers: _____	( )	( )	( )	( )	_____
15.d. Automatic: _____	( )	( )	( )	( )	_____
15.e. Existing System: _____	( )	( )	( )	( )	_____
15.e.1. Tie in Rqmts: _____	( )	( )	( )	( )	_____

G. BUILDING ( ELECTRICAL): **(CESAS-EN-DEM)**

Predesign Checklist

1. Lighting:

- 1.a. Ineand: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.b. Fluor: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.c. Intensity: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.d. Hazard areas: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.e. Refrig areas: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.f. High bay: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.g. Low bay: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.h. Special process  
(safelight, ultra violet, etc): \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.i. Controls (dimming,  
contactors, etc): \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.j. Wiring:
  - 1.j.1. Conduit: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.j.2. Cable: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.j.3. Trough: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.j.4. Duct: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 1.j.5. Bus: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.k. Shock: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.l. Shield: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.m. Mount: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.n. Phasing  
Requirements: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.o. Optional materials: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

2. Power:

- 2.a. Voltage: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.b. Frequency: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.c. Demand: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.d. Loads: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.e. Special outlets: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.f. Transformers: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.g. Rectifiers: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.h. Generators: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
    - 2.h.1. Standby: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
    - 2.h.2. Micro power: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.i. Transfer:
    - 2.i.1. Auto.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
    - 2.i.2. Manual: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.j. Shock: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.k. Shielding: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.l. Mounting: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.m. GFE Ratings: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 2.n. Outage Restrictions: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 
- 2.o. Optional Materials: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

3. Switches:

- 3.a. Explosion proof: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3.b. Moisture proof: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

4. Special controls:

- 4.a. Security: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4.b. Interlock: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

Predesign Checklist

H. COMMUNICATIONS: (CESAS-EN-DEM)

- 1. Fire Alarm: ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.a. Type: \_\_\_\_\_
- 1.a.1. Auto.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.a.2. Manual: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.a.3. Sprinkler: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.b. Match exists: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.c. Canceled: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.d. Exposed: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.e. Temp: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.f. Smoke: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.g. Flame: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.h. C02: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.i. Foam: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.j. Halon: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Intercom: \_\_\_\_\_
- 2.a. Nurse call: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.b. Dr. Paging: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.c. PA: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.d. Radio: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.e. TV: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.f. Phono: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.g. Transcript: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.h. Dict.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.i. Conduit only: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2.j. Complete: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

I. LIGHTNING PROTECTION: (CESAS-EN-DEM)

\_\_\_\_\_  
\_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

J. CATHODIC PROTECTION: (CESAS-EN-DEM)

- 1. Existing: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Soil Resistivity: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Coverage: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

K. OUTSIDE ELECTRICAL: (CESAS-EN-DEM)

- 1. Primary: \_\_\_\_\_
- 1.a. O'hd: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.b. Under.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.c. Direct lay: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.d. DuctS.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.e. Manholes: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.f. Grounding: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.g. Shielding: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.h. Characteristics: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.i. Configuration: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.j. Grounding: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.h. Shielding: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.i. Aluminum: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.j. Copper: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.k. Guying: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 1.l. Relocate: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

Predesign Checklist

1.m. Phasing requirements:	( )	( )	( )	( )	
1.n. Optional Materials:	( )	( )	( )	( )	
<b>2. Substation:</b>					
2.a. Mounting:					
2.a.1 Pole: _____	( )	( )	( )	( )	
2.a.2. Pad: _____	( )	( )	( )	( )	
2.a.3. Transclosure: _____	( )	( )	( )	( )	
2.b. Voltage: _____	( )	( )	( )	( )	
2.c. Integrater: _____	( )	( )	( )	( )	
2.d. Grounding: _____	( )	( )	( )	( )	
2.e. Grading: _____	( )	( )	( )	( )	
2.f. Fencing: _____	( )	( )	( )	( )	
2.g. Signs: _____	( )	( )	( )	( )	
2.h. Other: _____	( )	( )	( )	( )	
2.i. Phasing requirements: _____	( )	( )	( )	( )	
2.j. Optional materials: _____	( )	( )	( )	( )	
<b>3. Secondary:</b>					
3.a. Size: _____	( )	( )	( )	( )	
3.b. Voltage: _____	( )	( )	( )	( )	
3.c. Voltage drop: _____	( )	( )	( )	( )	
3.d. Clearance: _____	( )	( )	( )	( )	
3.e. Insulators: _____	( )	( )	( )	( )	
3.f. Service drops: _____	( )	( )	( )	( )	
3.g. Type duct (und.): _____	( )	( )	( )	( )	
3.h. Stub-outs: _____	( )	( )	( )	( )	
3.i. Phasing reqs.: _____	( )	( )	( )	( )	
3.j. Optional materials: _____	( )	( )	( )	( )	
<b>4. Street Lighting:</b>					
4.a. Pole:					
4.a.1 Length: _____	( )	( )	( )	( )	
4.a.2. Class: _____	( )	( )	( )	( )	
4.a.3. Length mast: _____	( )	( )	( )	( )	
4.b. Mounting Ht.: _____	( )	( )	( )	( )	
4.c. Loc. of CCT on poles: _____	( )	( )	( )	( )	
4.d. Cable rating: _____	( )	( )	( )	( )	
4.e. Series: _____	( )	( )	( )	( )	
4.f. Lamp ratings: _____	( )	( )	( )	( )	
4.g. Transformation: _____	( )	( )	( )	( )	
4.h. Regulation: _____	( )	( )	( )	( )	
4.i. Light pattern: _____	( )	( )	( )	( )	
4.j. Control: _____	( )	( )	( )	( )	
4.k. Phasing reqs: _____	( )	( )	( )	( )	
4.l. Optional materials: _____	( )	( )	( )	( )	
<b>5. Fence lighting:</b>					
5.a. Purpose:					



Predesign Checklist

5.a.1. In: _____	( )	( )	( )	( )	_____
5.a.2. Out: _____	( )	( )	( )	( )	_____
5.b. Security:					
5.b.1. OH: _____	( )	( )	( )	( )	_____
5.b.2. UG: _____	( )	( )	( )	( )	_____
5.c. Circuitry: _____	( )	( )	( )	( )	_____
5.d. Fixture type: _____	( )	( )	( )	( )	_____
5.e. Control: _____	( )	( )	( )	( )	_____
5.f. Interference: _____	( )	( )	( )	( )	_____
6. Parking area lighting:					
6.a. Pole protection: _____	( )	( )	( )	( )	_____
_____					
6.b. Shielding from building: _____	( )	( )	( )	( )	_____
_____					
6.c. Phasing: _____	( )	( )	( )	( )	_____
_____					

**K. WATER: (CESAS-EN-DEM)**

1. Demand:					
1.a. Domestic: _____	( )	( )	( )	( )	_____
1.b. Industrial: _____	( )	( )	( )	( )	_____
1.c. Fire: _____	( )	( )	( )	( )	_____
2. Storage: _____	( )	( )	( )	( )	_____
3. Treatment: _____	( )	( )	( )	( )	_____
4. Outage restrictions: _____	( )	( )	( )	( )	_____
_____					
5. Optional materials: _____	( )	( )	( )	( )	_____
_____					
6. Phasing requirements: _____	( )	( )	( )	( )	_____
_____					

**M. SEWAGE & IND. WASTE: (CESAS-EN-DEM)**

1. Collection: _____	( )	( )	( )	( )	_____
_____					
2. Treatment: _____	( )	( )	( )	( )	_____
_____					
3. Disposal: _____	( )	( )	( )	( )	_____
_____					
4. Outage Restrictions: _____	( )	( )	( )	( )	_____
_____					
5. Optional Materials: _____	( )	( )	( )	( )	_____
_____					
6. Phasing Requirements: _____	( )	( )	( )	( )	_____
_____					

**N. AGRONOMY: (CESAS-EN-DG)**

1. Erosion Control: _____	( )	( )	( )	( )	_____
2. Shrubs: _____	( )	( )	( )	( )	_____
3. Grassing:					
3.a. Seeding: _____	( )	( )	( )	( )	_____
3.b. Spot sod: _____	( )	( )	( )	( )	_____
3.c. Solid soil: _____	( )	( )	( )	( )	_____
4. Sprinklers: _____	( )	( )	( )	( )	_____
_____					

Predesign Checklist

O. WALKS: (CESAS-EN-DG)

- 1. Type: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Width: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

P. ROADS & DRIVES: (CESAS-EN-DG)

- 1. Loading: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Class: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Width: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4. Radii: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 5. Limit: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6. Curbs: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 7. Gutters: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 8. Surface: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 9. Traffic Control: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 10. Temp. by pass req.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 11. Phasing: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 12. Optional Materials: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

Q. PARKING AREA: (CESAS-EN-DG)

- 1. Size: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Surface: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Location: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4. Access: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 5. Load: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6. Angle: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

R. GRADING & DRAINAGE: (CESAS-EN-DG)

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

S. FENCING: (CESAS-EN-DG)

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

T. AIRFIELD PAVING: (CESAS-EN-DG)

- 1. Type: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Alternate: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Loading: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 4. Grade limitation: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 5. Overrun: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6. Clearance: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 7. Blast pads: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 8. Blast deflectors: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 9. Warm-up pad: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 10. Shoulders: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 11. Painting, marking: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 12. Relocation's: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 13. Fencing: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 14. Hazard removal: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 15. Real estate: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 16. Anchors: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 17. Phones: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

Predesign Checklist

- 18. Hydrants: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 19. Dust & erosion control: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 20. Overrun barriers: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 21. Lighting: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 22. Power: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 23. Nav aids: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 24. Hydra Refuel: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 25. Special Criteria: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 26. Waivers: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 27. Construction Phasing: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

U. SPOIL & BORROW AREA: **(CESAS-EN-DG)**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

V. DRAWINGS/SUBMITTALS: **(CESAS-EN-EP)**

- 1. Comply with Design Mn.: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Drawings Legible: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Reproducible Quality: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

W. ENVIRONMENTAL ISSUES: **(CESAS-PM-H)**

- 1. HTRW Concerns: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Air/Water/Noise Pollution & Abatement: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 3. Other Environmental Impacts to Include Wetlands: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

X. SPECIAL REQUIREMENTS: **(CESAS-EP)**

- 1. Studies & Investigations: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 2. Specintact Training for AE \_\_\_\_\_
- 3. MCASES Training f/AE: \_\_\_\_\_
- 4. Utility Tie-ins: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 5. Expansion Consideration: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 6. GFE:
  - 6.a. List: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 6.b. Responsibility: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
  - 6.c. Availability: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 7. Additive Item Priority: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 8. Special Use Criteria: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 9. Source: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 10. Special App./Concurrence: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 11. Operating Manuals: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 12. Oper Training: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_
- 13. Utilities Service Contracts: \_\_\_\_\_ ( ) ( ) ( ) ( ) \_\_\_\_\_

Predesign Checklist

14. Cost Limitations: _____					
15. Est. Cost vs. Program Amounts: _____	( )	( )	( )	( )	_____
<hr/>					
16. Real Estate:					
16.a. Acquisition: _____	( )	( )	( )	( )	_____
16.b. Entry: _____	( )	( )	( )	( )	_____
16.c. Permits: _____	( )	( )	( )	( )	_____
17. Utility Service Outages: _____	( )	( )	( )	( )	_____
<hr/>					
18. Project Office Space: _____	( )	( )	( )	( )	_____
<hr/>					
19. Construction Phasing: _____	( )	( )	( )	( )	_____
<hr/>					
19. Security Clearance for Personnel: _____	( )	( )	( )	( )	_____
<hr/>					
20. Avail Utilities for Construction: _____	( )	( )	( )	( )	_____
<hr/>					
21. Justification for Short Construction Period: _____	( )	( )	( )	( )	_____
<hr/>					
22. Justification for Restrictive Items: _____	( )	( )	( )	( )	_____
<hr/>					
23. Solicitation Advertisement Method					
23a. EBS on CD only/paper for field				( )	_____
23b. EBS CD and Internet / Paper for field				( )	_____
<hr/>					
24. Other: _____	( )	( )	( )	( )	_____
<hr/>					
<hr/>					

The undersigned agree that this document represent the agreements reached and the understanding of the scope at the indicated stage. Conditions or requirements may change due to circumstances beyond the control of this parties.

<b>ATTENDANTS:</b>	<b>Name</b>	<b>Office Symbol/Org</b>	<b>Tel No./Fax No.</b>	<b>E-Mail Address</b>
<b>Project Manager:</b> _____				
<b>Technical Manager:</b> _____				
<b>Installation DPW/BCE:</b> _____				
<b>MAJCOM:</b> _____				
<b>Area/Resident Engineer:</b> _____				
<b>Designer (A-E):</b> _____				
<b>Others:</b>	<b>Name</b>	<b>Office Symbol/Org</b>	<b>Tel No./Fax No.</b>	<b>E-Mail Address</b>
_____				
_____				

(DATE) \_\_\_\_\_

MEMORANDUM FOR RECORD

SUBJECT: Report of Field Visit to \_\_\_\_\_

Project: \_\_\_\_\_, L.I. \_\_\_\_\_, FY-\_\_\_\_\_

AE Contract Number  
\_\_\_\_\_

- 1. Time of Visit:
- 2. Place:
- 3. Purpose of Visit:
- 4. Persons Contacted and Making Inspections:
- 5. Specific Matters Considered:
- 6. Summary:
- 7. Instructions Issued and Commitments Made:
- 8. Comments and/or Recommendations:

SIGNATURE: \_\_\_\_\_

TITLE: \_\_\_\_\_

EXHIBIT 4

PAYMENT ESTIMATE  
CONTRACT PERFORMANCE  
(ENG FORM 93)

SAMPLE		PAYMENT ESTIMATE - CONTRACT PERFORMANCE		1. DATE		SHEET 1 of 1	
2. CONTRACTOR AND ADDRESS Smith, Brown and Jones Inc. 200 East St. Julian Street, Savannah, Georgia 31401		3. CONTRACT NO. DACA21-83-C-0200		4. DISTRICT Savannah		5. DATE 10 July 1987	
5. DESCRIPTION OF WORK Architect-Engineer Services (or Engineering Svs)		6. APPROVAL AND PROJECT By Approval of Firm		7. REQUIRED COMPLETION DATE N/A		8. DISTRICT Savannah	
8. LOCATION Fort State		9. PERIOD COVERED BY THIS ESTIMATE FROM		10. JOB ORDER NO. N/A		11. ESTIMATE NO. Start w/1*	
ITEM NO.	DESCRIPTION	QUANTITY AND UNIT	UNIT PRICE	AMOUNT	QUANTITY AND UNIT	TOTAL TO DATE	AMOUNT
1	Design of (Name of project as shown on the contract)		LS	(Copy from contract)	(Percentage of completion)		(Cumulative Earnings)
2	Phase I, Concept Design		LS				
3	Phase II, (Option), Final Design		LS				
4	Modification No. P00001						
I CERTIFY THAT THIS BILL IS CORRECT AND JUST AND PAYMENT HAS NOT BEEN RECEIVED							
INCLUDES MODIFICATION THRU:		TOTAL CONTRACT		TOTAL EARNINGS TO DATE			
12. PRESENTED FOR PAYMENT		14. A. PREVIOUS DEDUCTIONS OTHER THAN RETAINED PERCENTAGE**		TOTAL CONTRACT			
PAYEE (Type name of Firm as shown on contract)		PER (signature of official)		B. PREVIOUS RETAINED PERCENTAGE		0	
DATE		TITLE (Title of official Signing)		C. PREVIOUS PAYMENTS			
13. APPROVED FOR PAYMENT		D. PREVIOUS EARNINGS (A+B+C)					
I CERTIFY that I have checked the quantities covered by this bill or estimate; that the work was actually performed; that the quantities are correct and consistent with all previous computations as actually checked; that the quantities and amounts are wholly consistent with the requirements of the contract or other instrument involved.		E. EARNINGS THIS PERIOD (TOTAL EARNINGS TO DATE MINUS D)					
SIGNATURE		F. LESS RETAINED PERCENTAGE					
THIS SPACE RESERVED FOR SAVANNAH DISTRICT APPROVALS AND SIGNATURES		G. LESS DEDUCTION OTHER THAN RETAINED PERCENTAGE FOR					
CONTRACTING OFFICER APPROVAL (Signature)		H. TOTAL DEDUCTIONS THIS PERIOD (F+G)					
TITLE		I. RETAINAGE REFUNDED					
DATE		J. OTHER REFUNDS					
DATE		K. TOTAL REFUNDS THIS PERIOD					
DATE		L. AMOUNT DUE CONTRACTOR (E-H+K)					
DATE		15. RECAPITULATION					
TOTAL RETAINED PCTG. (B+F-I) \$				TOTAL PAID (C+L) \$			

ENG FORM 93  
1 MAR 78

PREVIOUS EDITION OF THIS FORM IS OBSOLETE

\*\*USE REVERSE SIDE FOR DETAILED EXPLANATION AND/OR REMARKS

### ENG FORM 93

- Submit original and 1 signed copy.
- Be sure to include the following statement on each request for payment:  
"I CERTIFY THAT THIS BILL IS CORRECT AND JUST AND PAYMENT HAS NOT BEEN RECEIVED."
- Send ENG Form 93 to the following address:  
Commander, U.S. Army Engineer District, Savannah, ATTN:  
(Appropriate Project Manager), P.O. Box 889, Savannah,  
GA 31402

SAMPLE		PAYMENT ESTIMATE - CONTRACT PERFORMANCE		5. DATE		SHEET 1 of 1	
2. CONTRACTOR AND ADDRESS Smith, Brown and Jones, Inc. 3111 N. Peachtree St., S.W. Atlanta, GA 30310		3. CONTRACT NO. DAF321-87-C-0208		4. DISTRICT Seawater			
5. DESCRIPTION OF WORK Architect-Engineer Services		6. APPLICABLE AND PROPOSED PERIOD COVERED BY THIS ESTIMATE FROM 1 May 87 TO 30 Jun 87		7. REQUIRED COMPLETION DATE N/A			
8. LOCATION Fort Benning, GA		9. ESTIMATE NO. 1110500-908-9223 P6310.0000-247D		10. JCS DIBERN NO. N/A			
ITEM NO.	DESCRIPTION	QUANTITY AND UNIT	UNIT PRICE	AMOUNT	QUANTITY AND UNIT	AMOUNT	TOTAL TO DATE
1	Design of Military Operations in Built-up Areas	-	13	25,250.00	75%	18,938.00	
2	Phase I, Concept Design	-	18	55,000.00	0%	0	
I CERTIFY THAT THIS BILL IS CORRECT AND COST AND PAYMENT HAS NOT BEEN RECEIVED							
INCLUDES NOTATION TRUE:			11. TOTAL CONTRACT		12. TOTAL EARNINGS TO DATE		13. 18,938.00
14. UNRECORDED NON-PAYMENT			15. PREVIOUS PERIODS OTHER THAN RETAINED PERCENTAGE*		16. PREVIOUS PERIODS OTHER THAN RETAINED PERCENTAGE*		0
17. PER			18. PREVIOUS PAYMENTS		19. PREVIOUS PAYMENTS		0
DATE			20. PREVIOUS EARNINGS (A+B+C)		21. PREVIOUS EARNINGS (A+B+C)		0
10 July 1987			22. EARNINGS THIS PERIOD (TOTAL EARNINGS TO DATE MINUS D)		23. EARNINGS THIS PERIOD (TOTAL EARNINGS TO DATE MINUS D)		18,938.00
I CERTIFY THAT I have checked the quantities covered by this bill or estimate with the work, and acceptly approved; that the quantities are correct and consistent with all previous correspondence; and I hereby certify that the budgeted and actual costs are wholly consistent with the requirements of the contract or other instrument involved.			24. LESS PERCENTAGE OTHER THAN RETAINED PERCENTAGE FOR		25. LESS PERCENTAGE OTHER THAN RETAINED PERCENTAGE FOR		0
SIGNATURE			26. TOTAL DEDUCTIONS THIS PERIOD (E+G)		27. TOTAL DEDUCTIONS THIS PERIOD (E+G)		1,894.00
DATE			28. RETAINAGE REFUNDED		29. RETAINAGE REFUNDED		0
TITLE			30. OTHER REPAIRS		31. OTHER REPAIRS		0
DATE			32. TOTAL REPAIRS THIS PERIOD		33. TOTAL REPAIRS THIS PERIOD		0
CONTRACTING OFFICER APPROVAL SIGNATURE			34. AMOUNT DUE CONTRACTOR (E-F+H)		35. AMOUNT DUE CONTRACTOR (E-F+H)		17,044.00
DATE			36. RECAPITULATION		37. RECAPITULATION		17,044.00
TOTAL PAID 26-L75			TOTAL RETAINED PERCENTAGE (B-F+I)*		TOTAL RETAINED PERCENTAGE (B-F+I)*		1,894.00

\* USE PLEASE USE SIDE FOR DETAILED EXPLANATION AND ON REVISION

FORM 1 MAR 70 OBSOLETE THIS VERSION OF THIS FORM IS OBSOLETE

TYPICAL SAMPLE - CONCEPT DESIGN COMPLETE BUT NOT REVIEWED

NOTE: Use this example with the concept or preliminary design submittal. No more than 75% less 10% retainage for small business or 20% for large business will be paid until project is reviewed and accepted. Use this payment estimate example if immediate payment is desired prior to review approval and acceptance.

\* - 10% Small Business or 20% Large Business



PAYMENT ESTIMATE - CONTRACT PERFORMANCE		DATE	SHEET 1 of 1
1. CONTRACT AND ADDRESS 200 East St., Julian Street, Savannah, GA 31401		10 July 1987	DISTRICT Savannah
2. CONTRACT NO. WAC-87-00-0200			
3. DESCRIPTION OF WORK Architect-Engineer Services			
4. LOCATION Fort Bragg, GA			
5. PERIOD OF CONTRACT FROM 1 Nov 87 TO 30 Jun 87			
6. DESCRIPTION OF WORK Design of Military Operations in Built-up Areas Phase I, Concept Design Phase II (Option), Final Design		100% 0%	25,250.00 0
7. I CERTIFY THAT THIS BILL IS CORRECT AND JUST AND PAYMENT HAS NOT BEEN RECEIVED			
8. INCLUDES MODIFICATION NO. 1			
9. PREPARED FOR PAYMENT Smith, Brown and Jones, Inc. 10 July 1987 Vice-President		TOTAL CONTRACT \$ 40,250.00 A. RETAINAGE RESERVATION 11.0% B. PREVIOUS RETAINAGE PERCENTAGE 1,894.00 C. PREVIOUS PAYMENTS 17,044.00 D. PREVIOUS EARNINGS IN-UP-CI 16,938.00 E. 3 MONTHS TIME IN FINAL EARNINGS TO DATE 6,312.00 F. LESS RETAINED PERCENTAGE 10% 631.00 G. LESS DEDUCTIONS DURING TERM 0 H. RETAINED PERCENTAGE FOR 631.00 I. TOTAL DEDUCTIONS THIS PERIOD \$ 0 J. RETAINAGE REFUNDED 0 K. OTHER REFUNDS 0 L. TOTAL REFUNDS THIS PERIOD 0 M. AMOUNT DUE CONTRACTOR 22,725.00 N. RETAINAGE 17,525.00	TOTAL TO DATE 25,250.00
SIGNATURE CONTRACTOR OFFICER APPROVAL (SIGNATURE)		TITLE DATE	DATE

FORM 3 MAR 78 83

PREVIOUS EDITION OF THIS FORM IS OBSOLETE

PLEASE REVERSE SIDE FOR DETAILED EXPLANATION AND OR REMARKS

### TYPICAL SAMPLE - RETAINAGE RELEASE FOR CONCEPT DESIGN

NOTE: Use this example when the preliminary or concept design has been submitted, reviewed, and accepted with corrections to be made during the final design. (Retainage will be refunded only after NTP has been issued on Phase # or corrections have been made to the concept design documents.)

This pay estimate No. 2 may be submitted as early as pay estimate No. 1 however, will not be processed until submittal has been reviewed, approved, and accepted. This will require approximately 30 days.

SAMPLE		PAYMENT ESTIMATE - CONTRACT PERFORMANCE		1. DATE		SHEET 1 of 1	
For use of the form, see ER 11-2-19 and ER 31-2-19.				10 July 1987		4. DISTRICT	
2. CONTRACTOR'S NAME AND ADDRESS Smith, Brown and Jones, Inc. 200 East St., Millian Street, Savannah, GA 31401		3. CONTRACT NO. DACR21-83-C-0300		6. DISTRICT Savannah		7. REQUESTED COMPLETION DATE N/A	
5. DETERMINATION OF WORK Acadibest-Engineer Services		8. PERIOD COVERED BY THIS ESTIMATE FROM 1 May 87 THRU 30 Jun 87		9. FOR ORDER NO. N/A		11. ESTIMATE NO. 3	
ITEM NO.	DESCRIPTION	QUANTITY AND UNIT	RATE PRICE	AMOUNT	QUANTITY AND UNIT	AMOUNT	TOTAL TO DATE
	Design of Military Operations in Built-up Areas		LS	25,250.00	100%	25,250.00	
	Phase II, Concept Design		LS	55,000.00	45%	24,750.00	
I CERTIFY THAT THIS BILL IS CORRECT AND JUST AND PAYMENT HAS NOT BEEN RECEIVED.							
INCLUDES MODIFICATION THRU _____		TOTAL CONTRACT		TOTAL EARNINGS TO DATE		4,140,100.00	
12. PRESENTED FOR PAYMENT		14. PREVIOUS REDUCTIONS OTHER THAN RETAINED PERCENTAGE		0			
PAYEE Smith, Brown and Jones, Inc.		15. PREVIOUS RETAINED PERCENTAGE		2,525.00			
DATE		16. PREVIOUS PAYMENTS		22,725.00			
13. APPROVED FOR PAYMENT		17. PREVIOUS EARNINGS (NET OF C)		25,250.00			
DATE		18. EARNINGS THIS PERIOD (TOTAL EARNINGS TO DATE MINUS D)		10%		2,525.00	
19. VENDOR HAS BEEN CHECKED BY THE BUREAU FOR DISQUALIFICATION OR DEBARMENT AND IS ELIGIBLE FOR AWARD OF CONTRACT. THE BUREAU HAS REVIEWED THE CONTRACT AND FOUND IT TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE DISQUALIFICATION AND DEBARMENT REGULATIONS.		20. LESS RETAINED PERCENTAGE		2,525.00			
		21. LESS DEDUCTIONS OTHER THAN RETAINED PERCENTAGE		0			
		22. TOTAL DEDUCTIONS THIS PERIOD (F-G)		2,525.00			
SIGNATURE		23. RETAINAGE REFUNDED		0			
TITLE		24. OTHER REFUNDS		0			
DATE		25. TOTAL REFUNDS THIS PERIOD		0			
26. CONTRACTING OFFICER APPROVAL (Signature)		27. AMOUNT DUE CONTRACTOR (K-L)		2,525.00			
DATE		28. RECEIPT TOTAL		24,800.00			
END FORM 1 MAR 78 90		PREVIOUS EDITION OF THIS FORM IS OBSOLETE		TOTAL RECEIVED (M-N) \$ 2,475.00		TOTAL PWD (16-13) \$ 47,525.00	

TYPICAL SAMPLE - PARTIAL PAYMENT OF FINAL DESIGN

NOTE: Use this example for partial payment of final design. No more than 75% will be paid on progress to date on final design less 10% or 20% retainage. Progress to date in this case will be 60% (75% x 80% = 60%)

\* - 10% Small Business or 20% Large Business

SAMPLE		PAYMENT ESTIMATE - CONTRACT PERFORMANCE		1. DATE		2. DISTRICT	
For use of the form, see ENR 3-2-79 and ENR 3-2-85 10.		10 July 1987		10 July 1987		District 1 of 1	
3. CONTRACT NO.		4. DISTRICT		5. QUANTITY AND UNIT		6. AMOUNT	
DMS21-82-C-0300		Savannah		100\$		25,250.00	
7. AMPLIFICATION AND PROJECTS		8. REQUIRE TO COMPLETE FROM DATE		9. QUANTITY AND UNIT		10. AMOUNT	
3192030 508-9223 76300.2000-2570		N/A		75\$		55,000.00	
11. ESTIMATING		12. ORDERING		13. TOTAL TO DATE		14. AMOUNT	
N/A		N/A		56,500.00		11,250.00	
ITEM NO.	DESCRIPTION	QUANTITY AND UNIT	UNIT PRICE	AMOUNT	TOTAL TO DATE		
	Designed of Military Operation in Built-up Areas		LS	25,250.00	QUANTITY AND UNIT	AMOUNT	
	Phase I, Concept Design		LS	55,000.00			
	Phase II (Option), Final Design						
I CERTIFY THAT THIS BILL IS CORRECT AND JUST AND PAYMENT HAS NOT BEEN RECEIVED							
INCLUDES MODIFICATION INQUIRY							
15. PREVIOUS PAYMENTS							
TOTAL CONTRACT 56,500.00							
TOTAL EARNINGS TO DATE 56,500.00							
16. PREVIOUS DEDUCTIONS OTHER THAN RETAINED PERCENTAGE							
TOTAL 0							
17. PREVIOUS PAYMENTS							
TOTAL 2,415.00							
18. PREVIOUS EARNINGS IN PERIOD							
TOTAL 47,525.00							
19. EARNINGS THIS PERIOD IN PERIOD EARNINGS TO DATE MINUS (I) 108							
TOTAL 1,650.00							
20. LESS RETAINED PERCENTAGE							
TOTAL 0							
21. LESS DEDUCTIONS OTHER THAN RETAINED PERCENTAGE FOR							
TOTAL 0							
22. TOTAL DEDUCTIONS THIS PERIOD (I) (II)							
TOTAL 0							
23. RETAINAGE REFUNDED							
TOTAL 0							
24. OTHER REFUND							
TOTAL 0							
25. TOTAL REFUNDS THIS PERIOD							
TOTAL 0							
26. AMOUNT DUE CONTRACTOR (E-H) (I)							
TOTAL 11,250.00							
27. RETAINAGE							
TOTAL 62,375.00							

FORM 1 MAR 78 99 PREVIOUS EDITION OF THIS FORM IS OBSOLETE  
 ENR 1 MAR 78 99 PREVIOUS EDITION FOR SEVERED EXPLANATION AND/OR ALIEN

TYPICAL SAMPLE - FINAL DESIGN COMPLETE BUT NOT REVIEWED

NOTE: Use this example with submittal of unreviewed final submittal. No more than 75% less 10% retainage for Small Business or 20% for Large Business will be paid until project is reviewed and accepted.

10% Small Business or 20% Large Business

ITEM NO.	DESCRIPTION	QUANTITY AND UNIT	UNIT PRICE	AMOUNT	DENSITY AND UNIT	TOTAL TO DATE
1	Design of Military Operations in Truck-Up Areas		LS	25,250.00	100%	25,250.00
2	Phase I, Concept Design		LS	55,000.00	100%	55,000.00
I CERTIFY THAT THIS BILL IS CORRECT AND JUST AND PAYMENT HAS NOT BEEN RECEIVED.						
TOTAL CONTRACT				1,802,250.00	TOTAL TARIFFS TO RATE	5,802,250.00
PREVIOUS DEDUCTIONS OTHER THAN RETAINED PERCENTAGE				0		
PREVIOUS RETAINED PERCENTAGE				4,225.00		
PREVIOUS PAYMENTS				62,775.00		
PREVIOUS EARNINGS (A-B-C)						66,500.00
EARNINGS THIS PERIOD (TOTAL EARNINGS TO DATE MINUS D)						13,750.00
LESS DEDUCTIONS OTHER THAN RETAINED PERCENTAGE (E)				103		
TOTAL DEDUCTIONS THIS PERIOD (F-G)				0		1,375.00
RETAINAGE DEFERRED						
OTHER RETAINERS						
TOTAL RESOURCES THIS PERIOD						12,375.00
AMOUNT FOR CONTRACTOR (F+H-I)						74,750.00
RECAPITULATION						
TOTAL RETAINED PER. (A-F+J) =				5,500.00	TOTAL PAID (G+K) =	74,750.00

FORM 1 MAIL 70 03 PREVIOUS EDITION OF THIS FORM IS OBSOLETE  
 (USE REVERSE SIDE FOR DE TA-150 EXPLANATION AND/OR REVISIONS)

REDUCED TO 10% AFTER FINAL REVIEW IS COMPLETE AND SATISFACTORY

NOTE: Use this example if payment is desired after final design has been reviewed, approved, and accepted subject to comments and corrections to be made.

\* - 10% for Small Business - 20% for Large Business

This pay estimate No. 5 may be submitted as early as pay estimate No. 4 but will not be processed for payment until final design has been reviewed and accepted. This will require approximately 30 days.

SAMPLE		PAYMENT ESTIMATE - CONTRACT PERFORMANCE		DATE		SHEET 1 of 1	
CONTRACTOR AND ADDRESS Smith, Brown and Jones Inc. 200 East St., Polk St. Savannah, GA 31401 Architect-Engineer Services		CONTRACT NO. DACK21-87-C-0200 2192000 908 R3DR-2000-0370		DATE 10 JULY 1987		CONTRACT NO. N/A	
LOCATION Fort Benning, GA		PERIOD COVERED BY THIS BILL FROM 1 MAY 87 TO 30 JUN 87		ESTIMATE NO. N/A		ESTIMATE NO. 6	
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	AMOUNT	TOTAL TO DATE	AMOUNT PAID	AMOUNT
	Design of Military Operation in Built-up Areas	16	LS	25,250.00	100%	25,250.00	
	Phase I, Concept Design						
	Phase II (Option), Final Design			55,000.00	100%	55,000.00	
I CERTIFY THAT THIS BILL IS CORRECT AND AMOUNT HAS NOT BEEN RECEIVED							
INCLUDES DESCRIPTIONS:				TOTAL CONTRACT: 80,250.00			
12. PREPARED FOR PAYMENT				14. REVIEWED CONDITIONS OTHER THAN RETAINED PERCENTAGE			
PAYEE Smith, Brown and Jones, Inc.				TOTAL AMOUNT PAID TO DATE: 80,250.00			
DATE 10 JULY 1987				15. PREVIOUS PERCENTAGE: 5,500.00			
TITLE Vice-President				16. PREVIOUS PAYMENTS: 74,750.00			
13. APPROVED FOR PAYMENT				17. EARNINGS THIS PERIOD IN PERCENTAGE OF EARNINGS TO DATE THROUGH DATE OF THIS BILL: 0			
I CERTIFY that I have checked the quantities covered by this bill or authorized the work and amount, and warrant that quantities are correct and consistent with all previous communications of military agencies that I represent in any capacity as a military contractor and the applicable terms of the contract of this contractor (include).				18. TOTAL DEBITED THIS PERIOD IN PERCENTAGE OF EARNINGS TO DATE THROUGH DATE OF THIS BILL: 0			
SIGNATURE				19. AMOUNT DUE CONTRACTOR (E-1103)			
TITLE				20. BECAUSE OF:			
DATE				TOTAL RETAINED PERCENTAGE: 100% OF 80,250.00			
CONTRACTING OFFICER APPROVAL SIGNATURE				TOTAL PAID TO DATE: 5,400.00			
DATE				TOTAL PAID TO DATE: 5,400.00			

TYPICAL SAMPLE - RETAINAGE RELEASED FOR CONCEPT DESIGN

NOTE: Use this example for payment after all design is complete and no corrections required.

\* \$100.00 retainage is required to keep the contract open

SAMPLE PAYMENT ESTIMATE - CONTRACT PERFORMANCE for use of this form, see ENR 33-8-63-4-16-17-18-19-20			1. DATE	SHEET 1 of 1
2. CONTRACT NO. SMITH, BROWN AND JOHNS INC. 200 Ross St., Durham, NC 27601	3. CONTRACT NO. DMC21-83-C-0200	4. DISTRICT Southwest	10 July 1987	
5. DESCRIPTION OF WORK Architect-Engineer Services at location Fort Rucker, GA	6. PERIOD COVERED BY THIS ESTIMATE FROM 1 May 87 THRU 30 Jun 87	7. ESTIMATE NO. N/A	8. JOB ORDER NO. N/A	9. REQUIRED COMPLETION DATE N/A
10. ITEM NO.	11. DESCRIPTION	12. QUANTITY AND UNIT	13. AMOUNT	14. TOTAL TO DATE
	Design of Military Operation in Build-up Areas		25,250.00	25,250.00
	Phase I, Concept Design		55,000.00	55,000.00
	Phase II (Option), Final Design			
I CERTIFY THAT THIS BILL IS CORRECT AND JUST AND PAYMENT HAS NOT BEEN RECEIVED				
INCLUDES MODIFICATION THIS 12. PRESENTED FOR PAYMENT				
PAYEE Smith, Brown and Johns, Inc.	FEH			
DATE 10 July 1987	TITLE Vice-President			
I CERTIFY that I have checked the quantities covered by this bill or estimate and all work was actually performed and the quantities are correct and consistent with all previous communications and fully checked that the quantities are correct and consistent with the requirements of the contract or other instrument involved.				
SIGNATURE	TITLE	DATE		
FOR WRITING OFFICER APPROVAL (INITIALS)				
ENG 1 MAR 78 98	PREVIOUS EDITION OF THIS FORM IS OBSOLETE			
TOTAL CONTRACT TO DATE			\$ 80,250.00	TOTAL EARNINGS TO DATE
15. A. PREVIOUS DEDUCTIONS OTHER THAN RETAINED PERCENTAGE			0	
16. B. PREVIOUS RETAINED PERCENTAGE			100.00	
17. C. PREVIOUS PAYMENTS			80,250.00	80,250.00
18. D. PREVIOUS EARNINGS (A+B+C)			0	0
19. E. EARNINGS THIS PERIOD (TOTAL EARNINGS TO DATE MINUS D)			0	0
20. F. LESS RETAINED PERCENTAGE			0	0
21. G. LESS DEDUCTIBLE OTHER THAN RETAINED PERCENTAGE FOR			0	0
22. H. TOTAL DEDUCTIONS THIS PERIOD (F+G)			100.00	0
23. I. RETAINAGE RETURNED			100.00	0
24. J. OTHER REFUNDS				
25. K. TOTAL REFUNDS THIS PERIOD				100.00
26. L. AMOUNT PAID CONTRACTOR (E-H+I+J)				100.00
27. M. NET PAYMENT				100.00
TOTAL RETAINED PAYS (A+D-G)				TOTAL PAID (K+L+M)

USE REVERSE SIDE FOR DETAILED EXPLANATION AND OR REVISIONS

TYPICAL SAMPLE - RETAINAGE RELEASED

NOTE: Use this example for payment of retainage to pay design in full, normally at 100% of construction



**DEPARTMENT OF THE ARMY**

SAVANNAH DISTRICT, CORPS OF ENGINEERS

P.O. BOX 889

SAVANNAH, GEORGIA 31402-0889

REPLY TO  
ATTENTION OF:

SASEN-EA

DATE: \_\_\_\_\_

SUBJECT: Release of Claims - To be Submitted with Final Payment Estimate

CONTRACT NO. \_\_\_\_\_

ARCHITECT-ENGINEER/CONTRACTOR \_\_\_\_\_

ADDRESS \_\_\_\_\_

PROJECT \_\_\_\_\_

LOCATION \_\_\_\_\_

The undersigned Architect-Engineer/Contractor, under above numbered contract, between the United States of America and said Architect-Engineer/Contractor, in accordance with the PAYMENTS clause of said Contract, hereby releases the United States, its officers, agents, and employees from any and all claims arising under or by virtue of said Contract or any modification or change thereof except with respect to those claims, if any, listed below:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DATE \_\_\_\_\_ FIRM \_\_\_\_\_

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

<b>PAYMENT ESTIMATE - CONTRACT PERFORMANCE</b> <small>For use of this form, see ER 37-2-10 and ER 37-345-10.</small>		1. DATE		SHEET ___ of ___
2. CONTRACTOR AND ADDRESS		3. CONTRACT NO.		4. DISTRICT
5. DESCRIPTION OF WORK		6. APPROPRIATION AND PROJECT		7. REQUIRED COMPLETION DATE
8. LOCATION		9. PERIOD COVERED BY THIS ESTIMATE FROM _____ THRU _____		10. JOB ORDER NO.
		11. ESTIMATE NO.		
ITEM NO. a	DESCRIPTION b	QUANTITY AND UNIT c	UNIT PRICE d	AMOUNT e
		QUANTITY AND UNIT f	TOTAL TO DATE AMOUNT g	
		TOTAL CONTRACT \$		TOTAL EARNINGS TO DATE \$
12. PRESENTED FOR PAYMENT		14. A. PREVIOUS DEDUCTIONS OTHER THAN RETAINED PERCENTAGE**		
PAYEE	PER			
DATE	TITLE	B. PREVIOUS RETAINED PERCENTAGE		
		C. PREVIOUS PAYMENTS		
		D. PREVIOUS EARNINGS (A+B+C)		
13. APPROVED FOR PAYMENT		E. EARNINGS THIS PERIOD (TOTAL EARNINGS TO DATE MINUS D)		
<small>I CERTIFY that I have checked the quantities covered by this bill or estimate; that the work was actually performed; that the quantities are correct and consistent with all previous computations as actually checked; that the quantities and amounts are wholly consistent with the requirements of the contract or other instrument involved.</small>		F. LESS RETAINED PERCENTAGE		
		G. LESS DEDUCTION OTHER THAN RETAINED PERCENTAGE FOR		
		H. TOTAL DEDUCTIONS THIS PERIOD (F+G)		
		I. RETAINAGE REFUNDED		
SIGNATURE		J. OTHER REFUNDS		
TITLE		K. TOTAL REFUNDS THIS PERIOD		
DATE		L. AMOUNT DUE CONTRACTOR (E-H+K)		
CONTRACTING OFFICER APPROVAL (Signature)		15. RECAPITULATION:		
DATE		TOTAL RETAINED PCTG. (B+F-I) \$		
		TOTAL PAID (C+L) \$		

ENG FORM 1 MAR 78 93 PREVIOUS EDITION OF THIS FORM IS OBSOLETE \*\* (USE REVERSE SIDE FOR DETAILED EXPLANATION AND/OR REMARKS)



SAMPLE DD FORM 1391  
PROGRAMING DOCUMENT

	2000			29 JUL 1998
ARMY				28 AUG 1991
Fort Benning Georgia			Ammo Holding Facility - LAAF	
	442 60	38974		1,400
1.00 U.S./US\$				
PRIMARY FACILITY				625
Ammo Holding Shed		m2	929.03 357.58	(332)
Hardstand		m2	5,435 53.90	(293)
SUPPORTING FACILITIES				619
Electric Service		LS	-- --	(89)
Paving, Walks, Curbs And Gutters		LS	-- --	(123)
Storm Drainage		LS	-- --	(266)
Site Imp( 141) Demo( )		LS	-- --	(141)
ESTIMATED CONTRACT COST				1,244
CONTINGENCY PERCENT (5.00%)				62
<hr/>				
SUBTOTAL				1,306
SUPERVISION, INSPECTION & OVERHEAD (6.00%)				78
<hr/>				
TOTAL REQUEST				1,384
TOTAL REQUEST (ROUNDED)				1,400
INSTALLED EQT-OTHER APPROPRIATIONS				(44)

Construct a covered shed with truck loading dock and hardstand. Supporting facilities include electric service, exterior lighting, lightning protection, paving, storm drainage, blast protection, and site improvements.

---

11. REQ:                    929 m2    ADQT:                    NONE                    SUBSTD:                    NONE  
PROJECT:

Construct an ammunition holding/loading facility. (Current Mission)

REQUIREMENT:

An ammunition holding facility is required for temporary storage, or ammunition sorting if required by a mission change and preparation for loading of palletized ammunition onto aircraft to support the 3D Brigade, 3D Infantry Division rapid deployment mission of the Division Ready Force Fly-away and

2000

29 JUL 1998

ARMY

28 AUG 1991

Fort Benning  
Georgia

Ammo Holding Facility - LAAF

38974

REQUIREMENT: (Continued)

Immediate Ready Company. Additionally, 463 L pallet loads require handling to meet air load planning requirements of the 75th Ranger Regiment. The covered shed must have a minimum interior height of 18 feet and have lighting that will not affect aircraft operations. The new hot load area is to be located 1,300 feet from the center of the airfield runway. This vehicle hardstand is required to keep tracked vehicles clean as they are being prepared for loading onto deployment aircraft.

CURRENT SITUATION:

Since 1984, ammunition for deployment/contingency missions has been brought to Lawson Army Airfield's (LAAF) Holding Area 32 where it is unloaded, stored, sorted and prepped for loading onto aircraft. This is an unimproved grassed area, which is not level and is poorly drained. Transfer of the ammunition from trucks to storage, final changes to the palletization of ammunition and movement from storage to the aircraft is slow and unpredictable at best. Inclement weather magnifies these problems due to the exposed ammunition and muddy conditions, thus slowing work and causing greater potential hazards. Temporary lighting must be acquired and set up for each operation. The potential for delays in deployment is significant, especially for the Ranger Regiment's 10 hour deployment requirement and the 18 hour requirement of the 3D Brigade. Fort Benning's current hot load area is located on an old taxiway approximately two miles from the aircraft loading apron.

IMPACT IF NOT PROVIDED:

If this project is not provided, the ammunition will continue to be exposed to weather. Excessive wear and tear on loading equipment will continue, and a significant potential for deploying aircraft being delayed will persist.

ADDITIONAL:

This project has been coordinated with the installation physical security plan, and all required physical security and/or combatting terrorism (CBT/T) measures are included. This project complies with the scope and design criteria of DOD 4270.1-M, Construction Criteria, that were in effect 1 January 1987, as implemented by the Army's Architectural and Engineering Instructions (AEI), Design Criteria, dated 3 July 1994. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement.

/S/ CARL F. ERNST  
Major General, USA  
Commanding

**ROUTING OF SHOP DRAWINGS, EQUIPMENT DATA,  
MATERIAL SAMPLES OR MANUFACTURER'S  
CERTIFICATES OF COMPLIANCE FOR APPROVAL  
(ENG FORM 4026)**

**ROUTING OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES  
OF COMPLIANCE FOR APPROVAL**

*(Used to route ENG Form 4025 with items attached. Not to become a part of the Contractor's record.)*

<b>1</b>	TO:	FROM:	DATE
The attached items listed on ENG Form 4025 are forwarded for approval action.			
CONTRACT NUMBER		CONTRACTOR	
TRANSMITTAL NUMBERS		PROJECT TITLE AND LOCATION	
COMMENTS <i>(Attach additional sheet, if necessary.)</i>			
NO. OF INCL.	TYPED NAME AND TITLE	SIGNATURE	
<b>2</b>	TO:	FROM:	DATE
COMMENTS <i>(Attach additional sheet, if necessary.)</i>			
NO. OF INCL.	TYPED NAME AND TITLE	SIGNATURE	
<b>3</b>	TO:	FROM:	DATE
COMMENTS <i>(Attach additional sheet, if necessary.)</i>			
NO. OF INCL.	TYPED NAME AND TITLE	SIGNATURE	
<b>4</b>	TO:	FROM:	DATE
The following action codes are given to items listed on ENG Form 4025:			
<b>ACTION CODES</b>			
A - APPROVED AS SUBMITTED.		D - WILL BE RETURNED BY SEPARATE CORRESPONDENCE.	
B - APPROVED, EXCEPT AS NOTED ON DRAWINGS. RESUBMISSION NOT REQUIRED.		E - DISAPPROVED (SEE ATTACHED)	
C - APPROVED, EXCEPT AS NOTED ON DRAWINGS. REFER TO ATTACHED SHEET. RESUBMISSION REQUIRED.		F - RECEIPT ACKNOWLEDGED	
G - OTHER <i>(specify)</i>			
ACTION CODES TO BE INSERTED IN COLUMN G, SECTION I, ENG FORM 4025 <i>(Attach sheets, when required.)</i>			
ITEM NO. <i>(Taken from ENG Form 4025)</i>			
CODE GIVEN			
REMARKS			
NO. OF INCL.	TYPED NAME AND TITLE	SIGNATURE	



**DEPARTMENT OF THE ARMY**  
SAVANNAH DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 889  
SAVANNAH, GEORGIA 31402-0889

REPLY TO  
ATTENTION OF:

SASEN-ES

DATE: \_\_\_\_\_

SUBJECT: Release of Claims - To be Submitted with Final Payment Estimate

CONTRACT NO.

\_\_\_\_\_

ARCHITECT-ENGINEER/CONTRACTOR

\_\_\_\_\_

ADDRESS

\_\_\_\_\_

PROJECT

\_\_\_\_\_

LOCATION

\_\_\_\_\_

The undersigned Architect-Engineer/Contractor, under above numbered contract, between the United States of America and said Architect-Engineer/Contractor, in accordance with the PAYMENTS clause of said Contract, hereby releases the United States, its officers, agents, and employees from any and all claims arising under or by virtue of said Contract or any modification or change thereof except with respect to those claims, if any, listed below:

\_\_\_\_\_

\_\_\_\_\_

DATE \_\_\_\_\_ FIRM \_\_\_\_\_

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

