

**APPENDIX B
SAMPLE DD FORMS 1391**

The sample DD Forms 1391 presented on the following pages are intended to serve as a *guide* for facility planning. Unit costs and quantities *should not be copied* because they are example items and may differ significantly from those at actual installations.

REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with a live-fire training range capable of supporting the gunnery requirements of BFV's and M60 and M1 tanks.

99	00000	REVISION DATE: 24 MAR 1996
ARMY		MCA (AS OF 03/24/1996 AT 13:29:25)
		LAF=1.05
Fort Example		
CONUS		Tank Gunnery Range (Stationary)
	000 00	00000 3,700
PRIMARY FACILITY		3,079
TANK GUNNERY RANGE (STATIONARY)	LS	- - (3,078)
Communications	LS	- - (1)
SUPPORTING FACILITIES		287
Electric Service	LS	- - (141)
Paving, Walks, Curbs & Gutters	LS	- - (135)
Information Systems	LS	- - (11)
ESTIMATED CONTRACT COST		3,366
CONTINGENCY PERCENT (5.00%)		<u>168</u>
SUBTOTAL		3,534
SUPERVISION, INSPECTION & OVERHEAD (6.00%)		<u>212</u>
TOTAL REQUEST		3,746
TOTAL REQUEST (ROUNDED)		3,700
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS		(1,005)

Construct a Tank Gunnery Range (Stationary) consisting of 15 firing positions, each 10 meters wide. The target area contains 36 SAT emplacements, 4 AMTC emplacements, 26 SIT emplacements, and 26 IHFS emplacements. Primary facilities include all construction within the perimeter of the range complex and consist of control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building and loading dock, bleacher enclosure, covered mess, maintenance trails, parking areas, vehicle holding and maintenance area, AMTC storage building, target emplacements, misfire pits, primary and secondary power and data distribution system, communications, site improvements, and demolition of five wooden buildings (5,000 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 3 miles. Targetry to be funded by other appropriations (OPA).

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:29:25)
 LAF=1.05

Fort Example
 CONUS Tank Gunnery Range (Stationary) 00000

CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. Mechanized and armor units will not be able to attain the degree of proficiency required.

ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:29:25)
 LAF=1.05
 Fort Example
 CONUSTank Gunnery Range (Stationary) 00000

	U/M	Qty	Unit	Cost	(\$000)	2.A PRIMARY FACILITY.	2.A1
GENERAL.							
1.0)			TANK GUNNERY RANGE (STATIONARY)	LS	-	-	(3,078)
2.0)			Communications	LS	-	-	(1)
2.B SUPPORTING FACILITIES.							
2.B1			Electric Service	LS	-	-	(141)
1)			(Primary Overhead Line)	MI	3.00	47,000	141
2.B4			Paving, Walks, Curbs & Gutters	LS	-	-	(135)
1)			(Gravel Access Road)	MI	3.00	45,000	135
2.B7			Information Systems	LS	-	-	(11)
1)			(Overhead Line)	MI	3.00	3,500	11

99 00000 REVISION DATE: 24 MAR 1996
 MCA (AS OF 03/24/1996 AT 13:29:40)
 LAF=1.05DATE 24 MAR 1996 FY 99 PROGRAM
 PROJECT NUMBER: 00000
 PROJECT TITLE: Tank Gunnery Range (Stationary)
 INSTALLATION: Fort Example
 LOCATION: CONUS

1999 00000 REVISION DATE: 24 MAR 1996
 MCA (AS OF 03/24/1996 AT 13:29:40)
 LAF=1.05
 DATE 24 MAR 1996 FY 99 PROGRAM PROJECT
 NUMBER: 00000
 PROJECT TITLE: Tank Gunnery Range (Stationary)
 INSTALLATION: Fort Example
 LOCATION: CONUSSECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

QUANTITATIVE DATA

(U/M EA)

A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////////		
		AUTHORIZED FUNDED
F. UNFUNDED PRIOR AUTHORIZATION		//////////////////////////////////////
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1. STATUS	
A. DESIGN START DATE	0000
B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR)	.00
C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)	.00
D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR)	.00
E. CONCEPT COMPLETE DATE	0000
F. DESIGN COMPLETE-DATE	0000
2. BASIS	
A. STANDARD OR DEFINITIVE DESIGN (YES/NO)	
B. WHERE DESIGN WAS MOST RECENTLY USED:	
3. COST (TOTAL - \$000)	
A. PRODUCTION OF PLANS AND SPECS	
B. ALL OTHER DESIGN COSTS	
C. TOTAL COST (C) = (A)+(B) OR (D)+(E)	
D. CONTRACT	
E. IN-HOUSE	
4. CONSTRUCTION START DATE (PLANNED)	0000

1999 00000 REVISION DATE: 24 MAR 1996

MCA (AS OF 03/24/1996 AT 13:29:40)

LAF=1.05

DATE 24 MAR 1996

FY 99 PROGRAM

PROJECT NUMBER: 00000

PROJECT TITLE: Tank Gunnery Range (Stationary)

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, DD 1391 Preparation Guidance. The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph D1 of DD Form 1391.

The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT	COST	COST(\$000)
7A. PRIMARY FACILITIES					(3,078)

1999 00000 REVISION DATE: 24 MAR 1996

MCA (AS OF 03/24/1993 AT 13:29:40)

LAF=1.05

DATE 24 MAR 1996

FY 99 PROGRAM

PROJECT NUMBER: 00000

PROJECT TITLE: Tank Gunnery Range (Stationary)

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL				(CONT) . .
Control Tower	SF	256	394.00	101
General Instruction Building	SF	800	66.00	53
Operations/Storage Building	SF	800	59.00	47
Latrine	SF	384	95.00	37
Ammo Breakdown Building	SF	120	98.00	12
Bleacher Enclosure	SF	576	36.00	21
Ammo Loading Dock	SF	625	35.00	22
Covered Mess	SF	760	30.00	23
Vehicle Holding & Maintenance Area	SY	6,600	28.00	185
AMTC Emplacement	EA	4	150,000.00	600
SAT Emplacements	EA	36	5,300.00	191
SIT Emplacements	EA	26	750.00	20
IHFS Emplacement	EA	26	531.00	14
Primary & Secondary Power and Data Distribution System	LS	1	-	1,125
Parking Area (Gravel)	SY	4,000	6.00	24
Maintenance Trails (Gravel)	SY	12,000	4.50	54
Misfire Pit	EA	1	2,370.00	2
Storm Drainage (Incls Headwalls)	LF	1,500	71.00	107
Earthwork	CY	60,000	7.00	420
Demolition	SF	5,000	3.50	18
Flag Pole	EA	1	2,370.00	2
Communications	LS	-	-	1

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS Multipurpose Training Range (BFV)

000 00	00000		3,400
PRIMARY FACILITY			
Multipurpose Training Range (BFV)	LS	- -	(2,506)
Communications	LS	- -	(1)
SUPPORTING FACILITIES			
Electric Service	LS	- -	(166)
Paving, Walks, Curbs & Gutters	LS	- -	(332)
Information Systems	LS	- -	(21)
ESTIMATED CONTRACT COST			3,026
CONTINGENCY PERCENT (5.00%)			<u>151</u>
SUBTOTAL			3,177
SUPERVISION, INSPECTION & OVERHEAD (6.00%)			<u>191</u>
TOTAL REQUEST			3,368
TOTAL REQUEST (ROUNDED)			3,400
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS			(540)

Construct a Multipurpose Training Range, a single trail course (BFV), with 12 SAT emplacements, 2 AMTC emplacements, 34 SIT emplacements, and 34 IHFS emplacements. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building and loading dock, bleacher enclosure, covered mess, tank trails, parking area (gravel), vehicle holding and maintenance area, maintenance trails, AMTC storage building, misfire pits, target emplacements, primary and secondary power and data distribution systems, communications, site improvements, and demolition of five wooden buildings (6,000 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 3 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with live-fire training range capable of supporting the gunnery requirements of BFV's and M60 and M1 tanks.

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS Multipurpose Training Range (BFV)
 28458CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. Mechanized and armor units will not be able to attain the degree of proficiency required. ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START:	APR 1999	INDEX: 2105
ESTIMATED MIDPOINT OF CONSTRUCTION:	OCT 1999	INDEX: 2131
ESTIMATED CONSTRUCTION COMPLETION:	APR 2000	INDEX: 2150

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS
 Multipurpose Training Range (BFV)

	U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY. 2.A1 GENERAL.				
1.0) 00000 Multipurpose Training Rng (BFV)	LS	-	-	(2,506)
2.0) Communications	LS	-	-	(1)
2.B SUPPORTING FACILITIES.				
2.B1 Electric Service				
1) Primary Overhead Line	MI	3.50	47,400	166
2.B4 Paving, Walks, Curbs & Gutters				
1) Gravel Access Road	MI	3.50	94,800	332
2.B7 Information Systems				
1) Overhead Line	MI	3.50	5,925	21

1999 00000 REVISION DATE: 24 MAR 1996
 MCA (AS OF 03/24/1996 AT 13:32:53)
 LAF=1.05

DATE 24 MAR 1996
 PROJECT NUMBER: 28458
 PROJECT TITLE: Multipurpose Training Range (BFV)
 INSTALLATION: Fort Example
 LOCATION: CONUS

FY 99 PROGRAM

QUANTITATIVE DATA
 (U/M EA)

A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////////AUTHORIZED FUNDED		
F. UNFUNDED PRIOR AUTHORIZATION		//////////////////////////////////////
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1999 00000 REVISION DATE: 24 MAR 1996
MCA (AS OF 03/24/1996 AT 13:32:53)
LAF=1.05
DATE 24 MAR 1993 FY 99 PROGRAM
PROJECT NUMBER: 28458
PROJECT TITLE: Multipurpose Training Range (BFV)
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)
1. STATUS
A. DESIGN START DATE..... 0000
B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR00
C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)..... .00
D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR00
E. CONCEPT COMPLETE DATE..... 0000
F. DESIGN COMPLETE-DATE..... 0000
2. BASIS
A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
B. WHERE DESIGN WAS MOST RECENTLY USED:
3. COST (TOTAL - \$000)
A. PRODUCTION OF PLANS AND SPECS.....
B. ALL OTHER DESIGN COSTS.....
C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
D. CONTRACT.....
E. IN-HOUSE
4. CONSTRUCTION START DATE (PLANNED) 0000

1999 00000 REVISION DATE: 24 MAR 1996
MCA (AS OF 03/24/1996 AT 13:32:53)
LAF=1.05
DATE 24 MAR 1996 FY 99 PROGRAM
PROJECT NUMBER: 28458
PROJECT TITLE: Multipurpose Training Range (BFV)
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL
7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, DD 1391 Preparation Guidance. The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT	
			COST	COST (\$000)
7A. PRIMARY FACILITIES				(2,506)

1999 00000 REVISION DATE: 24 MAR 1996
MCA (AS OF 03/24/1996 AT 13:32:53)
LAF=1.05
DATE 24 MAR 1996 FY 99 PROGRAM
PROJECT NUMBER: 28458
PROJECT TITLE: Multipurpose Training Range (BFV)
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL
7A GENERAL (CONT)..

Control Tower	SF	256	394.00	101
General Instruction Building	SF	800	66.00	53
Operations/Storage Building	SF	800	59.00	47
Latrine	SF	384	95.00	37
Ammo Breakdown Building	SF	120	98.00	12
Ammo Loading Dock	SF	625	35.00	22
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23
Vehicle Holding and Maintenance Area	SY	5,500	28.00	154
AMTC Emplacements	EA	2	150,000.00	300
SAT Emplacements	EA	12	5,300.00	64
SIT Emplacements	EA	34	750.00	26
IHFS Emplacements	EA	34	530.00	18
Primary & Secondary Power and Data Distribution System	LS	1	-	889
Tank Trails	SY	36,000	7.00	252
Maintenance Trails (Gravel)	SY	14,500	4.50	65
Misfire Pit	EA	1	2,370.00	2
Storm Drainage (Incls Headwalls)	LF	1,700	71.00	121
Earthwork	CY	42,000	6.00	252
Demolition	SF	6,000	3.50	21
Parking Area (Gravel)	SY	4,000	6.00	24
Flag Pole	EA	1	2,370.00	2
Communications	LS	-	-	1

99 00000 REVISION DATE: 25 SEP 1996
ARMY MCA (AS OF 09/25/1996 AT 13:40:58)
LAF=1.05
Fort Example
CONUS Multipurpose Training Range (Tank/BFV)
000 00 4,800
PRIMARY FACILITY 3,673
Multipurpose Training Rng (Tank/BFV) LS - - (3,672)
Communications LS - - (1)
SUPPORTING FACILITIES 593
Electric Service LS - - (190)
Paving, Walks, Curbs & Gutters LS - - (379)
Information Systems LS - - (24)
ESTIMATED CONTRACT COST 4,266
CONTINGENCY PERCENT (5.00%) 214
SUBTOTAL 4,480
SUPERVISION, INSPECT & OVHD (6.00%) 268
TOTAL REQUEST 4,748
TOTAL REQUEST (ROUNDED) 4,800
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS (1,044)
Construct a Multipurpose Training Range, a double trail course (tank/BFV), with 20 SAT emplacements, 4 AMTC emplacements, 50 SIT emplacements, and 50 IHFS emplacements, and 3 defilade positions. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building and loading dock, bleacher enclosure, covered mess, tank trails, parking area (gravel), vehicle holding and maintenance area, maintenance trails, AMTC storage building, misfire pits, primary and secondary power and data distribution systems, communications, site improvements, and demolition of five wooden buildings (2,000 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 6 miles. Targetry to be funded by other appropriations (OPA).
REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with live-fire training range capable of supporting the gunnery requirements of BFV's and M60 and M1 tanks.

99 00000 REVISION DATE: 25 SEP 1996
 ARMY MCA (AS OF 09/25/1996 AT 13:40:58)
 LAF=1.05

Fort Example

CONUS

Multipurpose Training Range (Tank/BFV)

CURRENT SITUATION: There are no facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. Mechanized and armor units will not be able to attain the degree of proficiency required ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 anti-terrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 00000 REVISION DATE: 25 SEP 1996
 ARMY MCA (AS OF 09/25/1996 AT 13:40:58)
 LAF= 1.05

Fort Example

CONUS

Multipurpose Training Range (Tank/BFV)

		<u>U/M</u>	<u>Qty</u>	<u>Unit Cost</u>	<u>Cost (\$000)</u>
2.A PRIMARY FACILITY.					
2.A1 GENERAL.					
1.0)	00000 Multipurpose Training Range (Tank/BFV)	LS	-	-	(3,672)
2.0)	Communications	LS	-	-	(1)
2.B SUPPORTING FACILITIES.					
2 .B1	Electric Service	LS	-	-	(190)
1)	Primary Overhead Line	MI	4.00	47,400	190
2.B4	Paving, Walks, Curbs & Gutter	LS	-	-	(379)
1)	Gravel Access Road	MI	4.00	94,800	379
2.B7	Information Systems	LS	-	-	(24)
1)	Overhead Line	MI	4.00	5,925	24

1999 00000 REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:41:08)
LAF=1.05
DATE 25 SEP 1992 FY 99 PROGRAM
PROJECT NUMBER:
PROJECT TITLE: Multipurpose Training Range (Tank/BFV)
INSTALLATION: Fort Example
LOCATION: CONUS

QUANTITATIVE DATA
(U/M EA)

A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////AUTHORIZED		FUNDED
F. UNFUNDED PRIOR AUTHORIZATION		//////////////////////////////////
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1999 00000 REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:41:08)
LAF=1.05
DATE 25 SEP 1992 FY 99 PROGRAM
PROJECT NUMBER:
PROJECT TITLE: Multipurpose Training Range (Tank/BFV)
INSTALLATION: Fort Example
LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

- STATUS
 - A. DESIGN START DATE..... 0000
 - B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR)..... .00
 - C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)..... .00
 - D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR)..... .00
 - E. CONCEPT COMPLETE DATE..... 0000
 - F. DESIGN COMPLETE-DATE 0000
- BASIS
 - A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
 - B. WHERE DESIGN WAS MOST RECENTLY USED:
- COST (TOTAL - \$000)
 - A. PRODUCTION OF PLANS AND SPECS.....
 - B. ALL OTHER DESIGN COSTS.....
 - C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
 - D. CONTRACT.....
 - E. IN-HOUSE.....
- CONSTRUCTION START DATE (PLANNED.....0000

1999 00000 REVISION DATE: 25 SEP 1996

MCA (AS OF 09/25/1996 AT 13:41:08)

LAF=1.05

DATE 25 SEP 1996

FY 99 PROGRAM

PROJECT NUMBER:

PROJECT TITLE: Multipurpose Training Range (Tank/BFV)

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, DD 1391 Preparation Guidance. The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(3,672)

1999 00000 REVISION DATE: 25 SEP 1996

MCA (AS OF 09/25/1996 AT 13:41:08)

LAF=1.05

DATE 25 SEP 1996

FY 99 PROGRAM

PROJECT NUMBER:

PROJECT TITLE: Multipurpose Training Range (Tank/BFV)

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL					(CONT) ..
Control Tower	SF	256	394.00		101
General Instruction Bldg	SF	800	66.00		53
Operations/Storage Bldg	SF	800	59.00		47
Latrine	SF	384	95.00		37
Ammo Breakdown Building	SF	120	98.00		12
Ammo Loading Dock	SF	625	35.00		22
Bleacher Enclosure	SF	576	36.00		21
Covered Mess	SF	760	30.00		23
SAT Emplacements	EA	20	5,300.00		106
SIT Emplacements	EA	50	1,127.00		38
IHFS Emplacements	EA	50	530.00		27
AMTC Emplacements	EA	4	150,000.00		600
Defilade Positions	EA	3	23,700.00		71
Primary & Secondary Power and Data Distribution System	LS	1	-		1,468
Vehicle Holding and Maintenance Area	SY	6,200	28.00		174
Parking Area (Gravel)	SY	3,000	6.00		18
Tank Trails	SY	54,000	7.00		378
Misfire Pit	EA	1	2,370.00		2
Maintenance Trails (Gravel)	SY	25,500	4.50		115
Storm Drainage (Incls Headwalls)	LF	1,550	71.00		110
Earthwork	CY	40,000	6.00		240
Demolition	SF	2,000	3.50		7
Flag Pole	EA	1	2,370.00		2
Communications	LS	-	-		1

99 REVISION DATE: 25 SEP 1996
 ARMY MCA (AS OF 09/25/1996 AT 13:44:12)
 LAF=1.05 Fort Example
 CONUS Antiarmor Tracking and Live Fire
 000 00 2,500
 PRIMARY FACILITY
 Antiarmor Tracking and Live Fire LS (1,655)
 Communications LS (1)
 SUPPORTING FACILITIES 593
 Electric Service LS (190)
 Paving, Walks, Curbs & Gutters LS (379)
 Information Systems LS (24)
 ESTIMATED CONTRACT COST 2,249
 CONTINGENCY PERCENT (5.00%) 112
 SUBTOTAL 2,361
 SUPERVISION, INSPECTION & OVERHEAD (6.00%) 142
 TOTAL REQUEST 2,503
 TOTAL REQUEST (ROUNDED) 2,500

INSTALLED EQUIPMENT-OTHER APPROPRIATIONS
 (399)Construct an Antiarmor Tracking and Live Fire Range with two raised firing lines, both 50 meters wide. One Firing line has 10 firing positions and the other line has 10 vehicle positions. The range will consist of 2 AMTC carrier emplacements, 4 SAT emplacements, and tracking road extending 3,450 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building and loading dock, bleacher enclosure, covered mess, tracking/maintenance roads, misfire pits, parking areas, vehicle holding and maintenance area, secondary power and data distribution system, communications, site improvements, and demolition of five wooden buildings (10,000 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 3 mile. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide Active Army, Reserve, and National Guard units with an Antiarmor tracking and live-fire training range capable of supporting the gunnery requirements of BFV's and M60 and M1 tanks. soldiers.

99 REVISION DATE: 25 SEP 1996
 ARMY MCA (AS OF 09/25/1996 AT 13:44:12)
 LAF=1.05
 Fort Example
 CONUS
 Antiarmor Tracking and Live Fire
 CURRENT SITUATION: There are no existing facilities at Fort Example capable of supporting these training activities.
 IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. Mechanized and armor units will not be able to attain the degree of proficiency required for combat.
 ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.
 /S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding
 ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 REVISION DATE: 25 SEP 1996
 ARMY MCA (AS OF 09/25/1996 AT 13:44:12)
 LAF=1.05
 Fort Example
 CONUS
 Antiarmor Tracking and Live Fire

	U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY.				
2.A1 GENERAL.				
1.0) 00000 Antiarmor Tracking and Live Fire	LS	-	-	(1,655)
2.0) Communications	LS	-	-	(1)
2.B SUPPORTING FACILITIES.				
2.B1 Electric Service				
1) Primary Overhead Line	MI	4.00	47,400	190
2.B4 Paving, Walks, Curbs & Gutters				
1) Gravel Access Road	MI	4.00	94,800	379
2.B7 Information Systems				
1) Overhead Line	MI	4.00	5,925	(24)

1999 REVISION DATE: 25 SEP 1996
 MCA (AS OF 09/25/1996 AT 13:44:21)
 LAF=1.05
 DATE 25 SEP 1996
 FY 99 PROGRAM
 PROJECT NUMBER:
 PROJECT TITLE: Antiarmor Tracking and Live Fire
 INSTALLATION: Fort Example
 LOCATION: CONUS

	(U/M EA)	QUANTITATIVE DATA
A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////////	AUTHORIZED	FUNDED
F. UNFUNDED PRIOR AUTHORIZATION		//////////////////////////////////////
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1999 REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:44:21)
LAF=1.05
DATE 25 SEP 1996 FY 99 PROGRAM
PROJECT NUMBER:
PROJECT TITLE: Antiarmor Tracking and Live Fire
INSTALLATION: Fort Example
LOCATION:CONUS
SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)
1. STATUS
A. DESIGN START DATE 0000
B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR)00
C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)00
D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR00
E. CONCEPT COMPLETE DATE 0000
F. DESIGN COMPLETE-DATE 0000
2. BASIS
A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
B. WHERE DESIGN WAS MOST RECENTLY USED:
3. COST (TOTAL - \$000)
A. PRODUCTION OF PLANS AND SPECS
B. ALL OTHER DESIGN COSTS
C. TOTAL COST (C) = (A)+(B) OR (D)+(E)
D. CONTRACT
E. IN-HOUSE
4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:44:21)
LAF=1.05
DATE 25 SEP 1996 FY 99 PROGRAM
PROJECT NUMBER:
PROJECT TITLE: Antiarmor Tracking and Live Fire
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL
7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16 DD 1391 Preparation Guidance. The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(1,655)

1999 REVISION DATE: 25 SEP 1996
 MCA (AS OF 03/24/1996 AT 13:44:21)
 LAF=1.05

DATE 25 SEP 1996 FY 99 PROGRAM
 PROJECT NUMBER:
 PROJECT TITLE: Antiarmor Tracking and Live Fire
 INSTALLATION: Fort Example
 LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL				(CONT)..
Control Tower	SF	256	394.00	101
General Instruction Bldg	SF	800	66.00	53
Operations/Storage Bldg	SF	800	59.00	47
Latrine	SF	384	95.00	37
Ammo Breakdown Building	SF	120	98.00	12
Ammo Loading Dock	SF	625	5.00	22
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23
SAT Emplacements	EA	4	5,300.00	21
AMTC Emplacement	EA	2	150,000.00	300
Vehicle Holding and Maintenance Area	SY	6,000	28.00	168
Primary & Secondary Power and Data Distribution System	LS	1	-	237
Misfire Pit	EA	1	2,370.00	2
Tracking/Maintenance Roads	SY	27,000	7.00	189
Storm Drainage (Incls Headwalls)	LF	1,200	71.00	85
Earthwork	CY	45,000	6.00	270
Demolition	SF	10,000	3.50	35
Parking Area (Gravel)	SY	5,000	6.00	30
Flag Pole	EA	1	2,370.00	2
Communications	LS	-	-	1

99 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS Multipurpose Range Complex (MPRC)
 000 00 00000 9,800

PRIMARY FACILITY				7,871
MPRC	LS	-	-	(7,870)
Communications	LS	-	-	(1)
SUPPORTING FACILITIES				889
Electric Service	LS	-	-	(284)
Paving, Walks, Curbs & Gutters	LS	-	-	(569)
Information Systems	LS			(36)
ESTIMATED CONTRACT COST				8,760
CONTINGENCY PERCENT (5.00%)				<u>438</u>
SUBTOTAL				9,198
SUPERVISION, INSPECTION & OVERHEAD (6.00%)				<u>552</u>
TOTAL REQUEST				9,750
TOTAL REQUEST (ROUNDED)				9,800
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS				(3,200)

Construct an MPRC with three firing lanes. Each lane will contain, 20 SAT emplacements, 4 AMTC emplacements, 51 SIT emplacements, 15 IMT emplacements, 15 IHFS emplacements, 4 two-man foxholes, and 10 defilade positions. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building and loading dock, bleacher enclosure, covered mess, tank trails, parking area (gravel), vehicle holding and maintenance area, maintenance trails, AMTC storage building, misfire pits, target emplacements, primary and secondary power and data distribution systems, communications, site improvements, and demolition of three wooden buildings (3,300 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 3 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with live-fire training range capable of supporting the gunnery requirements of BFV's, M60 and M1 tanks, and attack helicopters.

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS
 MPRC 00000

CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. Mechanized and armor units will not be able to attain the degree of proficiency required .

ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS
 MPRC

			Unit	Cost	
		U/M	Qty	Cost	(\$000)
2.A PRIMARY FACILITY.					
2.A1 GENERAL.					
1.0)	00000	MPRC	LS	-	(7,870)
2.0)		Communications	LS	-	(1)
2.B SUPPORTING FACILITIES.					
2.B1	Electric Service		LS	-	(284)
1)	Primary Overhead Line		MI	6.00 47,400	284
2.B4	Paving, Walks, Curbs & Gutters		LS	-	(569)
1)	Gravel Access Road		MI	6.00 94,800	569
2.B7	Information Systems		LS	-	(36)
1)	Overhead Line		MI	6.00 5,925	36

1999 00000 REVISION DATE: 24 MAR 1996

MCA (AS OF 03/24/1996 AT 13:32:53)

LAF=1.05

DATE 24 MAR 1996

FY 99 PROGRAM

PROJECT NUMBER: 28458

PROJECT TITLE: MPRC

INSTALLATION: Fort Example

LOCATION: CONUS

QUANTITATIVE DATA

(U/M EA)

A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////////	AUTHORIZED	FUNDED
F. UNFUNDED PRIOR AUTHORIZATION	//////////////////////////////////////	
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1999 00000 REVISION DATE: 24 MAR 1996

MCA (AS OF 03/24/1996 AT 13:32:53)

LAF=1.05

DATE 24 MAR 1996

FY 94 PROGRAM

PROJECT NUMBER: 28458

PROJECT TITLE: MPRC

INSTALLATION: Fort Example

LOCATION:CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

1. STATUS

A. DESIGN START DATE.....	0000
B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR).....	.00
C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR).....	.00
D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR).....	.00
E. CONCEPT COMPLETE DATE.....	0000
F. DESIGN COMPLETE-DATE.....	0000

2. BASIS

A. STANDARD OR DEFINITIVE DESIGN (YES/NO)

B. WHERE DESIGN WAS MOST RECENTLY USED:

3. COST (TOTAL - \$000)

A. PRODUCTION OF PLANS AND SPECS.....	
B. ALL OTHER DESIGN COSTS.....	
C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....	
D. CONTRACT.....	
E. IN-HOUSE.....	

4. CONSTRUCTION START DATE (PLANNED) 0000

1999 00000 REVISION DATE: 24 MAR 1996

MCA (AS OF 03/24/1996 AT 13:32:53)

LAF=1.05

DATE 24 MAR 1996 FY 99 PROGRAM

PROJECT NUMBER: 28458

PROJECT TITLE: MPRC

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, DD 1391 Preparation Guidance. The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's.

PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391.The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(7,870)

1999 00000 REVISION DATE: 24 MAR 1996

MCA (AS OF 03/24/1996 AT 13:32:53)

LAF=1.05

DATE 24 MAR 1996 FY 99 PROGRAM

PROJECT NUMBER: 28458

PROJECT TITLE: MPRC

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A	GENERAL				(CONT) . .
	Control Tower	SF	256	394.00	101
	General Instruction				
	Building (2 @ 800 SF ea.)	SF	1600	50.00	80
	Operations/Storage				
	Building	SF	800	39.00	31
	Latrine (2 @ 192 SF ea.)	SF	384	78.25	30
	Ammo Breakdown Building	SF	120	75.00	9
	Ammo Loading Dock	SF	750	30.00	23
	Bleacher Enclosure	SF	552	31.00	17
	Covered Mess	SF	760	25.00	19
	Vehicle Holding and				
	Maintenance Area	SY	6,600	22.00	142
	AMTC Emplacements	EA	12	150,000.00	1,800
	SAT Emplacements	EA	60	5,300.00	318
	SIT Emplacements	EA	153	750.00	115
	IMT Emplacements	EA	45	4,000.00	180
	IHFS Emplacements	EA	45	450.00	20
	Defilade Positions	EA	30	14,300.00	429
	Two-Man Foxholes	EA	12	1,237.00	15
	Primary & Secondary				
	Power and Data				
	Distribution System	LS	1	-	2,000
	Tank Trails	EA	6	291,667.00	1,750
	Maintenance Trails (Gravel)	SY	43,500	3.50	152
	Misfire Pit	EA	1	2,370.00	2
	Storm Drainage				
	(Incls Headwalls)	LF	2,000	60.00	120
	Earthwork	CY	75,000	6.00	450
	Demolition	SF	3,300	3.00	10
	Parking Area (Gravel)	SY	4,800	3.50	17
	Flag Pole	EA	1	2,000.00	2
	Communications	LS	-	-	1

99 00000 REVISION DATE: 25 DATE: 24 MAR 1996
 ARMY MCA (AS OF 09/25/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS Multipurpose Range Complex, Light Infantry (MPRC-LI)
 000 00 00000 7,300

PRIMARY FACILITY 6,226
 MPRC-LI LS - - (5,225)
 Communications LS - - (1)

SUPPORTING FACILITIES 297
 Electric Service LS - - (95)
 Paving, Walks, Curbs & Gutters LS - - (190)
 Information Systems LS - - (12)

ESTIMATED CONTRACT COST 6,523
 CONTINGENCY PERCENT (5.00%) 327
 SUBTOTAL 6,850
 SUPERVISION, INSPECTION & OVERHEAD (6.00%) 410
 TOTAL REQUEST 7,260
 TOTAL REQUEST (ROUNDED) 7,300
 INSTALLED EQUIPMENT-OTHER APPROPRIATIONS (2,700)

Construct an MPRC-LI with one lane, containing 37 SAT emplacements, 9 AMTC emplacements, 153 SIT emplacements, 46 IMT emplacements, 45 IHFS emplacements, and 12 defilade positions. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building and loading dock, bleacher enclosure, covered mess, tank trails, parking area (gravel), vehicle holding and maintenance area, maintenance trails, AMTC storage building, misfire pits, target emplacements, primary and secondary power and data distribution systems, communications, site improvements, and demolition of three wooden buildings (3,300 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 3 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with a training range capable of supporting realistic live-fire, combined-arms (infantry and armor) exercises. This project will integrate the infantry and armor target systems into the system referred to as RETS. This range will have the capability of creating various firing scenarios, since all targets will be computer controlled and scored. Each time a combat unit uses this range, it will be challenged by a different set of circumstance. The net result will be the most realistic combined-arms training available.

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS MPRC-LI
 00000

CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, the present critical lack of proficiency in combat arms techniques will continue in the high-priority combat units training here. ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 00000 REVISION DATE: 24 MAR 1996
 ARMY MCA (AS OF 03/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example
 CONUS
 MPRC-LI

	U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY.				
2.A1 GENERAL.				
1.0) 00000 MPRC-LI	LS	-	-	(6,225)
2.0) Communications	LS	-	-	(1)
2.B SUPPORTING FACILITIES.				
2.B1 Electric Service				
1) Primary Overhead Line	MI	2.00	47,400	95
2.B4 Paving, Walks, Curbs & Gutters				
1) Gravel Access Road	MI	2.00	94,800	190
2.B7 Information Systems				
1) Overhead Line	MI	2.00	5,925	12

1999 00000 REVISION DATE: 24 MAR 1996
 MCA (AS OF 03/24/1996 AT 13:32:53)
 LAF=1.05

DATE 24 MAR 1996 FY 99 PROGRAM
 PROJECT NUMBER: 28458
 PROJECT TITLE: MPRC-LI
 INSTALLATION: Fort Example
 LOCATION: CONUS

QUANTITATIVE DATA
 (U/M EA)

A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
F. UNFUNDED PRIOR AUTHORIZATION		////////////////////////////////////
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1999 00000 REVISION DATE: 24 MAR 1996
MCA (AS OF 03/24/1996 AT 13:32:53)
LAF=1.05
DATE 24 MAR 1996 FY 99 PROGRAM
PROJECT NUMBER: 28458
PROJECT TITLE: MPRC-LI
INSTALLATION: Fort Example
LOCATION:CONUS
SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)
1. STATUS
A. DESIGN START DATE.....0000
B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR..... .00
C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)..... .00
D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR)..... .00
E. CONCEPT COMPLETE DATE.....0000
F. DESIGN COMPLETE-DATE.....0000
2. BASIS
A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
B. WHERE DESIGN WAS MOST RECENTLY USED:
3. COST (TOTAL - \$000)
A. PRODUCTION OF PLANS AND SPECS.....
B. ALL OTHER DESIGN COSTS.....
C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
D. CONTRACT.....
E. IN-HOUSE.....
4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 00000 REVISION DATE: 24 MAR 1996
MCA (AS OF 03/24/1996 AT 13:32:53)
LAF=1.05
DATE 24 MAR 1996 FY 99 PROGRAM
PROJECT NUMBER: 28458
PROJECT TITLE: MPRC-LI
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL
7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, DD 1391 Preparation Guidance. The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

<u>ITEM</u>	<u>U/M</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>COST (\$000)</u>
7A. PRIMARY FACILITIES				(6,225)

1999 00000 REVISION DATE: 24 MAR 1996
MCA (AS OF 03/24/1996 AT 13:32:53)
LAF=1.05
DATE 24 MAR 1996 FY 99 PROGRAM
PROJECT NUMBER: 28458
PROJECT TITLE: MPRC-LI
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL
7A GENERAL (CONT)..

Control Tower	SF	256	394.00	101
General Instruction Building (2 @ 800 SF ea.)	SF	1600	50.00	80
Operations/Storage Building	SF	800	58.00	47
Latrine (2 @ 192 SF ea.)	SF	384	94.00	36
Ammo Breakdown Building	SF	120	100.00	12
Ammo Loading Dock	SF	750	35.00	26
Bleacher Enclosure	SF	552	38.00	21
Covered Mess	SF	760	30.00	23
Vehicle Holding and Maintenance Area	SY	6,600	24.00	144
AMTC Emplacements	EA	9	150,000.00	1,350
SAT Emplacements	EA	37	5,300.00	196
SIT Emplacements	EA	153	750.00	115
IMT Emplacements	EA	46	4,000.00	184
IHFS Emplacements	EA	45	450.00	20
Defilade Positions	EA	12	14,300.00	172
Primary & Secondary Power and Data Distribution System	LS	1	-	1,500
Tank Trails	EA	5	291,667.00	1,458
Maintenance Trails (Gravel)	SY	40,000	3.50	140
Misfire Pit	EA	1	2,370.00	2
Storm Drainage (Incls Headwalls)	LF	1,500	60.00	90
Earthwork	CY	60,000	6.00	360
Demolition	SF	1,831	3.00	6
Parking Area (Gravel)	SY	4,000	3.50	140
Flag Pole	EA	1	2,000.00	2
Communications	LS	-	-	1

99 28340 P REVISION DATE: 24 NOV 1996
ARMY MCA (AS OF 11/24/1996 AT 13:29:25)
LAF=1.05
Fort Example
CONUS 179 02 Automated Field Fire Range 28340 1,200
PRIMARY FACILITY 996
AUTOMATED FIELD FIRE RANGE LS -- -- (995)
Communications LS -- -- (1)
SUPPORTING FACILITIES 100
Electric Service LS -- -- (47)
Paving, Walks, Curbs & Gutters LS -- -- (46)
Information Systems LS -- -- (7)
ESTIMATED CONTRACT COST 1,096
CONTINGENCY PERCENT (5.00%) 55
SUBTOTAL 1,151
SUPERVISION, INSPECTION & OVERHEAD (6.00%) 69
TOTAL REQUEST 1,220
TOTAL REQUEST (ROUNDED) 1,200
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS (266)

Construct an Automated Field Fire Range consisting of 16 firing lanes. Each lane is 16 meters wide and displays 3 stationary targets from 75 to 300 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consist of control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, maintenance trails, parking areas, foxholes, stationary target emplacements, target boots, secondary power and data distribution system, communications, site improvements, and demolition of five wooden buildings (5,000 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 2 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with a permanent facility to exercise all live fire training requirements to improve combat readiness for infantry soldiers.

99 28340 P REVISION DATE: 24 NOV 1996
 ARMY MCA (AS OF 11/24/1996 AT 13:29:25)
 LAF=1.05

CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting these training activities. IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. The infantry units will not be able to attain the degree of proficiency required for combat.

ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 28340 P REVISION DATE: 24 NOV 1996
 ARMY MCA (AS OF 11/24/1996 AT 13:29:25)
 LAF=1.05

Fort Example
 CONUS

				28340	
		U/M	Qty	Unit Cost	Cost (\$000)
Automated Field Fire Range					
2.A PRIMARY FACILITY. 2.A1 GENERAL.					
1.0)	AUTOMATED FIELD FIRE RANGE	LS	--	--	(995)
2.0)	Communications	LS	--	--	(1)
2.B SUPPORTING FACILITIES.					
2.B1	Electric Service	LS	--	--	(47)
1)	(Primary Overhead Line)	MI	2.00	23,700	47
2.B4	Paving, Walks, Curbs & Gutters	LS	--	--	(46)
1)	(Gravel Access Road)	MI	2.00	23,100	46
2.B7	Information Systems	LS	--	--	(7)
1)	(Overhead Line)	MI	2.00	3,600	7

1999 28340 P REVISION DATE: 24 NOV 1996
MCA (AS OF 11/24/1996 AT 13:29:40)
LAF=1.05

DATE 24 NOV 1996 FY 99 PROGRAM
PROJECT NUMBER: 28340
PROJECT TITLE: Automated Field Fire Range
INSTALLATION: Fort Example
LOCATION: CONUS

QUANTITATIVE DATA
(U/M EA)

A.	TOTAL REQUIREMENT	1	
B.	EXISTING SUBSTANDARD		
C.	EXISTING ADEQUATE		
D.	FUNDED, NOT INVENTORY		
E.	ADEQUATE ASSETS		
	//////////////////////////////////AUTHORIZED		FUNDED
F.	UNFUNDED PRIOR AUTHORIZATION		//////////////////////////////////
G.	INCLUDED IN FY PROGRAM		
H.	DEFICIENCY (A-E-F-G)	1	1

1999 28340 P REVISION DATE: 24 NOV 1996
MCA (AS OF 11/24/1996 AT 13:29:40)
LAF=1.05

DATE 24 NOV 1996 FY 99 PROGRAM PROJECT
NUMBER: 28340
PROJECT TITLE: Automated Field Fire Range
INSTALLATION: Fort Example
LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

1. STATUS

A.	DESIGN START DATE.....	0000
B.	PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR).....	.00
C.	PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR).....	.00
D.	PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR).....	.00
E.	CONCEPT COMPLETE DATE.....	0000
F.	DESIGN COMPLETE-DATE.....	0000

2. BASIS

A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
B. WHERE DESIGN WAS MOST RECENTLY USED:

3. COST (TOTAL - \$000)

A. PRODUCTION OF PLANS AND SPECS.....
B. ALL OTHER DESIGN COSTS.....
C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
D. CONTRACT.....
E. IN HOUSE.....

4. CONSTRUCTION START DATE (PLANNED).....0000

1999 28340 P REVISION DATE: 24 NOV 1996
MCA (AS OF 11/24/1996 AT 13:29:40)
LAF=1.05

DATE 24 NOV 1996 FY 99 PROGRAM

PROJECT NUMBER: 28340
PROJECT TITLE: Automated Field Fire Range
INSTALLATION: Fort Example
LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391.

The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(995)
Control Tower	SF	256	394.00	101

1999 28340 P REVISION DATE: 24 NOV 1996
MCA (AS OF 11/24/1992 AT 13:29:40)
LAF=1.05

DATE 24 NOV 1996 FY 99 PROGRAM

PROJECT NUMBER: 28340
PROJECT TITLE: Automated Field Fire Range
INSTALLATION: Fort Example
LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

(CONT) . .

General Instruction				
Building	SF	800	66.00	53
Operations/Storage				
Building	SF	800	59.00	47
Latrine	SF	192	95.00	18
Ammunition Breakdown				
Building	SF	120	98.00	12
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23
Stationary Target				
Emplacements	EA	48	750.00	36
Target Boots	EA	32	120.00	4
Primary & Secondary				
Power and Data				
Distribution System	LF	21,000	14.00	294
Parking Area (Gravel)	SY	625	4.50	3
Maintenance Trails				
(Gravel)	SY	14,000	4.50	63
Storm Drainage				
(Incls Headwalls)	LF	650	30.00	20
Earthwork	CY	36,000	7.00	252
Demolition	SF	5,000	3.50	18
PA System, Speaker,				
Post, and Wiring	LS	--	--	14
Flag Pole	EA	1	2,370.00	2
Foxholes	EA	16	890.00	14
Communications	LS	--	--	1

99 28458 P REVISION DATE: 24 NOV 1996
 ARMY MCA (AS OF 11/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example

CONUS		Modified Record Fire Range		
	179 03	28458		1,300
PRIMARY FACILITY				1,082
Record Fire Rg		LS -- --		(1,081)
Communications		LS -- --		(1)
SUPPORTING FACILITIES				100
Electric Service		LS -- --		(47)
Paving, Walks, Curbs & Gutters		LS -- --		(46)
Information Systems		LS -- --		(7)
ESTIMATED CONTRACT COST				1,182
CONTINGENCY PERCENT (5.00%)				59
SUBTOTAL				1,241
SUPERVISION, INSPECTION & OVERHEAD (6.00%)				75
TOTAL REQUEST				1,316
TOTAL REQUEST (ROUNDED)				1,300
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS				(332)

Construct a Modified Record Fire Range consisting of 16 firing lanes. Each lane is 20 meters wide and displays 9 stationary targets, including 32 hostile fire simulators, from 50 to 300 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, maintenance trails, parking areas, foxholes, stationary target emplacements, secondary power and data distribution systems, communications, site improvements, and demolition of eight wooden buildings (10,000 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 2 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with a permanent facility to exercise all live fire training requirements to improve combat readiness for infantry soldiers.

99 28458 P REVISION DATE: 24 NOV 1996
 ARMY MCA (AS OF 11/24/1996 AT 13:32:37)
 LAF=1.05

Fort Example

CONUS		Modified Record Fire Range		28458
CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting these training activities.				
IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. The infantry units will not be able to attain the degree of proficiency required for combat.				
ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.				
			/S/ JAMES Z. BLANK	
			Lieutenant General, USA	
			Commanding	
ESTIMATED CONSTRUCTION START:	APR 1999	INDEX:	2105	
ESTIMATED MIDPOINT OF CONSTRUCTION:	OCT 1999	INDEX:	2131	
ESTIMATED CONSTRUCTION COMPLETION:	APR 2000	INDEX:	2150	

99 28458 P REVISION DATE: 24 NOV 1996
 ARMY MCA (AS OF 11/24/1996 AT 13:32:37)
 LAF=1.05

1999 28458 P REVISION DATE: 24 NOV 1996
 MCA (AS OF 11/24/1996 AT 13:32:53)
 LAF=1.05

Fort Example
 CONUS
 Modified Record Fire Range

DATE 24 NOV 1996 FY 99 PROGRAM
 PROJECT NUMBER: 28458
 PROJECT TITLE: Modified Record Fire Range
 INSTALLATION: Fort Example
 LOCATION: CONUS

				28458	
		U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY. 2.A1 GENERAL.					
1.0)	17903 Record Fire Rg	LS	--	--	(1,081)
2.0)	Communications	LS	--	--	(1)
2.B SUPPORTING FACILITIES.					
2.B1 Electric Service					
1)	Primary Overhead Line	MI	2.00	23,700	47
2.B4 Paving, Walks, Curbs & Gutters					
1)	Gravel Access Road	MI	2.00	23,100	46
2.B7 Information Systems					
1)	Overhead Line	MI	2.00	3,600	7

QUANTITATIVE DATA
 (U/M EA)

- A. TOTAL REQUIREMENT
- B. EXISTING SUBSTANDARD
- C. EXISTING ADEQUATE
- D. FUNDED, NOT INVENTORY
- E. ADEQUATE ASSETS
- F. UNFUNDED PRIOR AUTHORIZATION
- G. INCLUDED IN FY PROGRAM
- H. DEFICIENCY (A-E-F-G)

//////////////////////////////////////AUTHORIZED FUNDED
 //

1999 28458 P REVISION DATE: 24 NOV 1996

MCA (AS OF 11/24/1992 AT 13:32:53)

LAF=1.05

DATE 24 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 28458

PROJECT TITLE: Modified Record Fire Range

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

1. STATUS

A. DESIGN START DATE..... 0000
 B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR)..... .00
 C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)..... .00
 D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR)..... .00
 E. CONCEPT COMPLETE DATE..... 0000
 F. DESIGN COMPLETE-DATE..... 0000

2. BASIS

A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
 B. WHERE DESIGN WAS MOST RECENTLY USED:

3. COST (TOTAL - \$000)

A. PRODUCTION OF PLANS AND SPECS.....
 B. ALL OTHER DESIGN COSTS.....
 C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
 D. CONTRACT.....
 E. IN HOUSE.....

4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 28458 P REVISION DATE: 24 NOV 1996

MCA (AS OF 11/24/1996 AT 13:32:53)

LAF=1.05

DATE 24 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 28458

PROJECT TITLE: Modified Record Fire Range

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training. Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(1,081)

1999 28458 P REVISION DATE: 24 NOV 1996
MCA (AS OF 11/24/1996 AT 13:32:53)
LAF=1.05

DATE 24 NOV 1996 FY 99 PROGRAM

PROJECT NUMBER: 28458

PROJECT TITLE: Modified Record Fire Range

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL7

A	GENERAL				(CONT)..
	Control,Tower	SF	256	394.00	101
	General Instruction				
	Building	SF	800	66.00	53
	Operations/Storage				
	Building	SF	800	59.00	47
	Latrine	SF	192	95.00	18
	Ammunition Breakdown				
	Building	SF	120	98.00	12
	Bleacher Enclosure	SF	576	36.00	21
	Covered Mess	SF	760	30.00	23
	Stationary Target				
	Emplacements	EA	144	750.00	108
	Infantry Hostile Fire				
	Simulator Emplacements	EA	32	535.00	17
	Primary & Secondary				
	Power and Data				
	Distribution System	LF	22,000	14.00	308
	Parking Area	SY	750	4.50	3
	Maintenance Trails				
	(Gravel)	SY	10,300	4.50	46
	Storm Drainage				
	(Incls Headwalls)	LF	725	30.00	22
	Earthwork	CY	35,000	7.00	245
	Demolition	SF	10,000	3.50	35
	PA System, Speaker				
	Post and Wiring	LS	--	--	18
	Flag Pole	EA	1	2,370.00	3
	Foxholes	EA	16	890.00	1
	Communications	LS	--	--	1

99 28454 W REVISION DATE: 25 SEP 1996
ARMY MCA (AS OF 09/25/1992 AT 13:40:58)
LAF=1.05

Fort Example

CONUS		Automated Record Fire Range	
	179 03	28454	1,300
PRIMARY FACILITY			1,066
Record Fire Rg		LS -- --	(1,065)
Communications		LS -- --	(1)
SUPPORTING FACILITIES			100
Electric Service		LS -- --	(47)
Paving, Walks, Curbs & Gutters		LS -- --	(46)
Information Systems		LS -- --	(7)
ESTIMATED CONTRACT COST			1,166
CONTINGENCY PERCENT (5.00%)			58
SUBTOTAL			1,224
SUPERVISION, INSPECT & OVHD (6.00%)			74
TOTAL REQUEST			1,298
TOTAL REQUEST (ROUNDED)			1,300
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS			(266)

Construct an Automated Record Fire Range consisting of 16 lanes. Each lane is 20 meters wide and displays 7 stationary targets, including 32 hostile fire simulators, from 50 to 300 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consist of control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, maintenance trails, parking areas, foxholes, target emplacements, secondary power and data distribution system, communications, site improvements, and demolition of 8 wooden buildings (12,000 SF). The control tower will be heated and cooled with a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and primary power and communications lines approximately 2 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with a permanent facility to exercise all live fire training requirements to improve combat readiness for infantry soldiers.

99 28454 W REVISION DATE: 25 SEP 1996

ARMY MCA (AS OF 09/25/1996 AT 13:40:58)

LAF=1.05

Fort Example

CONUS

Automated Record Fire Range 28454

CURRENT SITUATION: There are no facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. The infantry units will not be able to attain the degree of proficiency required for combat.

ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK

Lieutenant General, USA

Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105

ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131

ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 28454 W REVISION DATE: 25 SEP 1996

ARMY MCA (AS OF 09/25/1996 AT 13:40:58)

LAF= 1.05

Fort Example

CONUS

Automated Record Fire Range 28454

	U/M	Qty	Unit Cost	Cost (\$000)
--	-----	-----	-----------	--------------

2.A PRIMARY FACILITY.

2.A1 GENERAL.

1.0)	17903	Record Fire Rg	LS	--	--	(1,065)
------	-------	----------------	----	----	----	---------

2.0)		Communications	LS	--	--	(1)
------	--	----------------	----	----	----	-----

2.B SUPPORTING FACILITIES.

2 .B1		Electric Service	LS	--	--	(47)
-------	--	------------------	----	----	----	------

1)		Primary Overhead Line	MI	2.00	23,700	47
----	--	-----------------------	----	------	--------	----

2.B4		Paving, Walks, Curbs & Gutter	LS	--	--	(46)
------	--	-------------------------------	----	----	----	------

1)		Gravel Access Road	MI	2.00	23,100	46
----	--	--------------------	----	------	--------	----

2.B7		Information Systems	LS	--	--	(7)
------	--	---------------------	----	----	----	-----

1)		Overhead Line	MI	2.00	3,600	7
----	--	---------------	----	------	-------	---

1996 28454 W REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:41:08)
LAF=1.05

DATE 25 SEP 1996 FY 99 PROGRAM
PROJECT NUMBER: 28454
PROJECT TITLE: Automated Record Fire Range
INSTALLATION: Fort Example
LOCATION: CONUS

QUANTITATIVE DATA
(U/M EA)

A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////////AUTHORIZED	FUNDED	
F. UNFUNDED PRIOR AUTHORIZATION	//////////////////////////////////////	
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1999 28454 W REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:41:08)
LAF=1.05

DATE 25 SEP 1996 FY 99 PROGRAM
PROJECT NUMBER: 28454
PROJECT TITLE: Automated Record Fire Range
INSTALLATION: Fort Example
LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

1. STATUS

A. DESIGN START DATE.....	0000
B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR).....	.00
C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR).....	.00
D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR).....	.00
E. CONCEPT COMPLETE DATE.....	0000
F. DESIGN COMPLETE-DATE.....	0000

2. BASIS

A. STANDARD OR DEFINITIVE DESIGN (YES/NO)	
B. WHERE DESIGN WAS MOST RECENTLY USED:	

3. COST (TOTAL - \$000)

A. PRODUCTION OF PLANS AND SPECS.....	
B. ALL OTHER DESIGN COSTS.....	
C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....	
D. CONTRACT.....	
E. IN HOUSE.....	

4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 28454 W REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:41:08)
LAF=1.05

DATE 25 SEP 1996 FY 94 PROGRAM
PROJECT NUMBER: 28454
PROJECT TITLE: Automated Record Fire Range
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL
7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

<u>ITEM</u>	<u>U/M</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>COST (\$000)</u>
7A. PRIMARY FACILITIES				(1,065)

1999 28454 W REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:41:08)
LAF=1.05

DATE 24 NOV 1996 FY 99 PROGRAM
PROJECT NUMBER: 28454
PROJECT TITLE: Automated Record Fire Range
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL

7A GENERAL				(CONT) . .
Control Tower	SF	256	394.00	101
General Instruction Building	SF	800	66.00	53
Operations/Storage Building	SF	800	59.00	47
Latrine	SF	192	95.00	18
Ammunition Breakdown Building	SF	120	98.00	12
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23
Stationary Target Emplacements	EA	112	750.00	84
Infantry Hostile Fire Simulator Emplacements	EA	32	535.00	17
Foxholes	EA	16	890.00	14
Primary & Secondary Power and Data Distribution System	LF	24,000	14.00	336
Parking Area (Gravel)	SY	150	4.50	1
Maintenance Trails (Gravel)	SY	15,200	4.50	68
Storm Drainage (Incls Headwalls)	LF	700	47.00	33
Earthwork	CY	26,000	7.00	182
Demolition	SF	10,000	3.50	35
PA System, Speaker Post and Wiring	LS	--	--	18
Flag Pole	EA	1	2,370.00	2
Communications	LS	--	--	1

99 28471 P REVISION DATE: 25 SEP 1996
 ARMY MCA (AS OF 09/25/1996 AT 13:44:12)
 LAF=1.05 Fort Example

CONUS Fire and Movement Range
 179 90 28471 1,250

PRIMARY FACILITY 1,071

Fire & Mvmt Range	LS	--	--	(1,070)
Communications	LS	--	--	(1)

SUPPORTING FACILITIES 51

Electric Service	LS	--	--	(24)
Paving, Walks, Curbs & Gutters	LS	--	--	(23)
Information Systems	LS	--	--	(4)

ESTIMATED CONTRACT COST 1,122

CONTINGENCY PERCENT (5.00%) 56

SUBTOTAL 1,178

SUPERVISION, INSPECTION & OVERHEAD (6.00%) 71

TOTAL REQUEST 1,249

TOTAL REQUEST (ROUNDED) 1,250

INSTALLED EQUIPMENT-OTHER APPROPRIATIONS (355)

Construct a Fire and Movement Range consisting of 16 firing lanes. Each lane is 20 meters wide and displays 7 stationary targets, including 32 hostile fire simulators, from 50 to 300 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, maintenance trails, parking areas, foxholes, stationary target and hostile fire simulator emplacements, secondary power and data distribution system, communications, site improvements, and demolition of eight wooden buildings (8,400 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 1 mile. Targetry to be funded by other appropriations (OPA).

99 28471 P REVISION DATE: 25 SEP 1996
 ARMY MCA (AS OF 09/25/1996 AT 13:44:12)
 LAF=1.05

Fort Example
 CONUS
 Fire and Movement Range 28471

REQUIREMENT: This project is required to provide Active Army, Reserve, and National Guard units with a permanent facility to exercise live fire training requirements to improve combat readiness for infantry soldiers.

CURRENT SITUATION: There are no existing facilities at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. The infantry units will not be able to attain the degree of proficiency required for combat.

ADDITIONAL: The installation is responsible for incorporati

ng PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11. /S/ JAMES Z. BLANK

Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START:	APR 1999	INDEX: 2105
ESTIMATED MIDPOINT OF CONSTRUCTION:	OCT 1999	INDEX: 2131
ESTIMATED CONSTRUCTION COMPLETION:	APR 2000	INDEX: 2150

1996 99 28471 P REVISION DATE: 25 SEP
 ARMY MCA (AS OF 09/25/1996 AT 13:44:12)
 LAF=1.05
 Fort Example
 CONUS
 Fire and Movement Range 28471

	U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY.				
2.A1 GENERAL				
1.0) 17990 Fire & Mvmt Range	LS	--	--	(1,070)
2.0) Communications	LS	--	--	(1)
2.B SUPPORTING FACILITIES.				
2.B1 Electric Service				
1) Primary Overhead Line	MI	1.00	23,700	24
2.B4 Paving, Walks, Curbs & Gutters				
1) Gravel Access Road	MI	1.00	23,100	23
2.B7 Information Systems				
1) Overhead Line	MI	1.00	3,600	4

1999 28471 P REVISION DATE: 25 SEP 1996
 MCA (AS OF 09/25/1996 AT 13:44:21)
 LAF=1.05
 DATE 25 SEP 1996 FY 99 PROGRAM
 PROJECT NUMBER: 28471
 PROJECT TITLE: Fire and Movement Range
 INSTALLATION: Fort Example
 LOCATION: CONUS

QUANTITATIVE DATA
 (U/M EA)

A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////////	AUTHORIZED	FUNDED
F. UNFUNDED PRIOR AUTHORIZATION	//////////////////////////////////////	
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1999 28471 P REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:44:21)
LAF=1.05
DATE 25 SEP 1996 FY 99 PROGRAM
PROJECT NUMBER: 28471
PROJECT TITLE: Fire and Movement Range
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)
1. STATUS
A. DESIGN START DATE..... 0000
B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR)..... .00
C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)..... .00
D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR)..... .00
E. CONCEPT COMPLETE DATE..... 0000
F. DESIGN COMPLETE-DATE..... 0000
2. BASIS
A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
B. WHERE DESIGN WAS MOST RECENTLY USED:
3. COST (TOTAL - \$000)
A. PRODUCTION OF PLANS AND SPECS.....
B. ALL OTHER DESIGN COSTS.....
C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
D. CONTRACT.....
E. IN HOUSE.....
4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 28471 P REVISION DATE: 25 SEP 1992
MCA (AS OF 11/25/1996 AT 13:44:21)
LAF=1.05
DATE 25 SEP 1996 FY 99 PROGRAM
PROJECT NUMBER: 28471
PROJECT TITLE: Fire and Movement Range
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 -
GENERAL7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(1,070)

1999 28471 P REVISION DATE: 25 SEP 1996
MCA (AS OF 09/25/1996 AT 13:44:21)
LAF=1.05

DATE 25 SEP 1996 FY 99 PROGRAM

PROJECT NUMBER: 28471
PROJECT TITLE: Fire and Movement Range
INSTALLATION: Fort Example
LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL				(CONT)..
Control Tower	SF	256	394.00	101
General Instruction Building	SF	800	66.00	53
Operations/Storage Building	SF	800	59.00	47
Latrine	SF	192	95.00	18
Ammunition Breakdown Building	SF	120	98.00	12
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23
Stationary Target Emplacements	EA	112	750.00	84
Primary & Secondary Power and Data Distribution System	LF	23,000	14.00	322
Parking Area (Gravel)	SY	700	4.50	3
Hostile Fire Simulator Emplacement	EA	32	535.00	17
Maintenance Trails (Gravel)	SY	13,700	4.50	62
Storm Drainage (Incls Headwalls)	LF	800	42.00	34
Earthwork	CY	35,000	6.00	210
Demolition	SF	8,400	3.50	29
PA System, Speaker Post and Wiring	LS	--	--	18
Flag Pole	EA	1	2,370.00	2
Foxholes	EA	16	890.00	14
Communications	LS	--	--	1

99 27873 P REVISION DATE: 27 NOV 1996
ARMY MCA (AS OF 11/27/1996 AT 07:50:42)
LAF=1.05

Fort Example

CONUS	179 07	Sniper Training Field Fire Range	27873	1,000
PRIMARY FACILITY				811
Sniper Trng Fld		LS	-- --	(810)
Communications		LS	-- --	(1)
SUPPORTING FACILITIES				100
Electric Service		LS	-- --	(47)
Paving, Walks, Curbs & Gutters		LS	-- --	(46)
Information Systems		LS	-- --	(7)
ESTIMATED CONTRACT COST				911
CONTINGENCY PERCENT (5.00%)				46
SUBTOTAL				957
SUPERVISION, INSPECT & OVHD (6.00%)				57
TOTAL REQUEST				1,014
TOTAL REQUEST (ROUNDED)				1,000
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS				(210)

Construct a Sniper Training Field Fire Range consisting of four lanes. Each lane displays 9 stationary and 2 moving targets from 100 to 1000 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consists of control tower, latrine, operation/storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, moving and stationary target emplacements, primary and secondary power and data distribution systems, foxholes, maintenance trails, parking area, flag pole, site improvements, and demolition of two wooden buildings (720 SF). Support facilities include facilities outside the range complex perimeter and consist of extending the access road and primary power and communication lines approximately 2 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide Active Army, Reserve, and National Guard units with day and night sniper training to improve combat readiness. This range can also be used for advanced rifle marksmanship training.

99 27873 P REVISION DATE: 27 NOV 1996
 ARMY MCA (AS OF 11/27/1992 AT 07:50:42)
 LAF= 1.05

Fort Example
 CONUS Sniper Training Field Fire Range 27873
 CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting sniper training exercises.
 IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse impact on sniper training. The unit will not be able to attain the degree of proficiency required for combat.
 ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 27873 P REVISION DATE: 27 NOV 1996
 ARMY MCA (AS OF 11/27/1992 AT 07:50:42)
 LAF= 1.05

Fort Example
 CONUS
 Sniper Training Field Fire Range 27873

		U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY. 2.A1 GENERAL					
1.0)	17907	LS	--	--	(810)
2.0)		LS	--	--	(1)
2.B SUPPORTING FACILITIES.					
2.B1 Electric Service					
1)		MI	2.00	23,700	47
2.B4 Paving, Walks, Curbs & Gutter					
1)		MI	2.00	23,100	46
2.B7 Information Systems					
1)		MI	2.00	3,600	7

1999 27873 P REVISION DATE: 27 NOV 1996

MCA (AS OF 11/27/1996 AT 07:50:53)

DATE 27 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 27873

PROJECT TITLE: Sniper Training Field Fire Range

INSTALLATION: Fort Example

LOCATION: CONUS

QUANTITATIVE DATA

(U/M EA)

A.	TOTAL REQUIREMENT		1	
B.	EXISTING SUBSTANDARD			
C.	EXISTING ADEQUATE			
D.	FUNDED, NOT INVENTORY			
E.	ADEQUATE ASSETS			
	//////////////////////////////////////	AUTHORIZED		FUNDED
F.	UNFUNDED PRIOR AUTHORIZATION			//////////////////////////////////////
G.	INCLUDED IN FY PROGRAM			
H.	DEFICIENCY (A-E-F-G)		1	1

1999 27873 P REVISION DATE: 27 NOV 1996

MCA (AS OF 11/27/1996 AT 07:50:53)

LAF=1.05

DATE 27 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 27873

PROJECT TITLE: Sniper Training Field Fire Range

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

1. STATUS

A.	DESIGN START DATE.....	0000
B.	PERCENT COMPLETE AS OF 15 SEP 97(DSGN YR).....	.00
C.	PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR).....	.00
D.	PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR).....	.00
E.	CONCEPT COMPLETE DATE.....	0000
F.	DESIGN COMPLETE-DATE.....	0000

2. BASIS

- A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
- B. WHERE DESIGN WAS MOST RECENTLY USED:

3. COST (TOTAL - \$000)

- A. PRODUCTION OF PLANS AND SPECS.....
- B. ALL OTHER DESIGN COSTS.....
- C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
- D. CONTRACT.....
- E. IN HOUSE.....

4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 27873 P REVISION DATE: 27 NOV 1996

MCA (AS OF 11/27/1996 AT 07:50:53)

LAF=1.05

DATE 27 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 27873

PROJECT TITLE: Sniper Training Field Fire Range

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities scope and cost breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining Communication requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391.

The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITY				(810)

1999 27873 P REVISION DATE: 27 NOV 1996

MCA (AS OF 11/27/1996 AT 07:50:53)

LAF=1.05

DATE 27 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 27873

PROJECT TITLE: Sniper Training Field Fire Range

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

(CONT)..

Control Tower	SF	256	394.00	101
Operation/Storage Building	SF	800	59.00	47
General Instruction Building	SF	800	66.00	53
Latrine	SF	192	95.00	23
Ammunition Breakdown Building	SF	120	98.00	12
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23
IMT Emplacement	EA	8	4,000.00	32
SIT Emplacement	EA	36	750.00	27
Primary & Secondary Power & Data Distribution Systems	LF	16,500	14.00	231
Flag Pole	EA	1	2,370.00	2
Storm Drainage (incls headwalls)	LF	300	71.00	21
Earthwork	CY	29,700	6.00	178
Demolition	SF	600	3.50	2
Parking Area (Gravel)	SY	625	4.50	3
Maintenance Trails	SY	6,560	4.50	30
Foxholes	EA	4	890.00	4
Communications	LS	--	--	1

1999 27879 P REVISION DATE: 27 NOV 1996
 ARMY (AS OF 11/27/1996 AT 07:54:08)
 LAF=1.05

Fort Example				
CONUS		Multipurpose MG Transition Range		
	179 10	27879		1,650
PRIMARY FACILITY				1,331
Machgun Tran Rg		LS -- --		(1,330)
Communications		LS -- --		(1)
SUPPORTING FACILITIES				151
Electric Service		LS -- --		(71)
Paving, Walks, Curbs & Gutters		LS -- --		(69)
Information Systems		LS -- -		(11)
ESTIMATED CONTRACT COST				1,482
CONTINGENCY PERCENT (5.00%)				74
SUBTOTAL				1,556
SUPERVISION, INSPECTION & OVERHEAD (6.00%)				93
TOTAL REQUEST				1,649
TOTAL REQUEST (ROUNDED)				1,650
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS				(370)

Construct a Multipurpose Machine Gun Transition Range with ten lanes. Each lane displays 18 stationary targets. Primary facilities include all construction within the perimeter of the range complex and consists of control tower, latrine, operation/storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, target emplacements, primary and secondary power and data distribution system, foxholes, maintenance trails, parking area, flag pole, site improvements, and demolition of eight wooden buildings (960 SF). Support facilities include facilities outside the range complex perimeter and consist of extending the access road and primary power and communication lines approximately 3 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide Active Army, Reserve, and National Guard units combat training on 0.50 caliber, M60, and Squad Automatic Weapon (SAW) equipment.

99 27879 P REVISION DATE: 27 NOV 1996
 ARMY MCA (AS OF 11/27/1996 AT 07:54:08)
 LAF=1.05

Fort Example
 CONUS
 Multipurpose MG Transition Range 27879
 CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting machine gun transition training exercises.
 IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse impact on machinegun training. The units will not be able to attain the degree of proficiency required for combat.
 ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START:	APR 1999	INDEX: 2105
ESTIMATED MIDPOINT OF CONSTRUCTION:	OCT 1999	INDEX: 2131
ESTIMATED CONSTRUCTION COMPLETION:	APR 2000	INDEX: 2150

99 27879 P REVISION DATE: 27 NOV 1996
 ARMY MCA (AS OF 11/27/1996 AT 07:54:08)
 LAF=1.05
 Fort Example
 CONUS
 Multipurpose MG Transition Range 27879
 Unit Cost
 U/M Qty Cost (\$000)
 2.A PRIMARY FACILITY.
 2.A1 GENERAL
 1.0) 17910 Machgun Tran Rg LS -- -- (1,330)
 2.0) Communications LS -- -- (1)
 2.B SUPPORTING FACILITIES.
 2.B1 Electric Service LS -- -- (71)
 1) Primary Overhead Line MI 3.00 23,700 71
 2.B4 Paving, Walks, Curbs & Gutters LS -- -- (69)
 1) Gravel Access Road MI 3.00 23,100 69
 2.B7 Information Systems LS -- -- (11)
 1) Overhead Line MI 3.00 3,600 11

1999 27879 P REVISION DATE: 27 NOV 1996
 MCA (AS OF 11/27/1992 AT 07:54:16)
 LAF=1.05
 DATE 27 NOV 1996
 PROJECT NUMBER: 27879
 PROJECT TITLE: Multipurpose MG Transition Range
 INSTALLATION: Fort Example
 LOCATION: CONUS
 FY 99 PROGRAM
 QUANTITATIVE DATA
 (U/M EA)
 A. TOTAL REQUIREMENT 1
 B. EXISTING SUBSTANDARD
 C. EXISTING ADEQUATE
 D. FUNDED, NOT INVENTORY
 E. ADEQUATE ASSETS
 ////////////////////////////////////AUTHORIZED FUNDED
 F. UNFUNDED PRIOR AUTHORIZATION ////////////////////////////////////
 G. INCLUDED IN FY PROGRAM
 H. DEFICIENCY (A-E-F-G) 1 1

1999 27879 P REVISION DATE: 27 NOV 1996
 MCA (AS OF 11/27/1996 AT 07:54:16)
 LAF=1.05

DATE 27 NOV 1996 FY 99 PROGRAM
 PROJECT NUMBER: 27879
 PROJECT TITLE: Multipurpose MG Transition Range
 INSTALLATION: Fort Example
 LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

- 1. STATUS
 - A. DESIGN START DATE..... 0000
 - B. PERCENT COMPLETE AS OF 15 SEP 97 DSGN YR)..... .00
 - C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)..... .00
 - D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR)..... .00
 - E. CONCEPT COMPLETE DATE..... 0000
 - F. DESIGN COMPLETE-DATE..... 0000
- 2. BASIS
 - A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
 - B. WHERE DESIGN WAS MOST RECENTLY USED:
- 3. COST (TOTAL - \$000)
 - A. PRODUCTION OF PLANS AND SPECS.....
 - B. ALL OTHER DESIGN COSTS.....
 - C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
 - D. CONTRACT.....
 - E. IN HOUSE.....
- 4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 27879 P REVISION DATE: 27 NOV 1996
 MCA (AS OF 11/27/1996 AT 07:54:16)
 LAF=1.05

DATE 27 NOV 1996 FY 99 PROGRAM
 PROJECT NUMBER: 27879
 PROJECT TITLE: Multipurpose MG Transition Range
 INSTALLATION: Fort Example
 LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities scope and cost breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining Communication requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(1,330)

1999 27879 P REVISION DATE: 27 NOV 1996
MCA (AS OF 11/27/1996 AT 07:54:16)
LAF=1.05
DATE 27 NOV 1996 FY 99 PROGRAM
PROJECT NUMBER: 27879
PROJECT TITLE: Multipurpose MG Transition Range
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL
7A GENERAL (CONT)

Control Tower	SF	256	394.00	101
General Instruction Building	SF	800	66.00	53
Operation/Storage Building	SF	800	59.00	47
Latrine	SF	480	71.00	34
Ammunition Breakdown Building	SF	120	98.00	12
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23
Stationary Target Emplacements	EA	180	1,400.00	252
Primary & Secondary Power & Data Distribution System	LF	41,000	14.00	574
Parking Area (Gravel)	SY	470	4.50	2
Maintenance Trails (Gravel)	SY	4,000	4.50	18
Storm Drainage(incls headwalls)	LF	275	60.00	17
Earthwork	CY	23,000	7.00	161
Demolition	SF	960	3.50	3
Flag Pole	EA	1	2,370.00	2
Foxholes	EA	10	890.00	9
Communications	LS	--	--	1

1996 99 27929 P REVISION DATE: 27 NOV
ARMY MCA (AS OF 11/27/1996 AT 07:56:34)
LAF=1.05
Fort Example
CONUS Combat Pistol Qualification Course
179 28 27929 600
PRIMARY FACILITY 479
Combt Pistol Qual Course LS -- -- (478)
Communications LS -- -- (1)
SUPPORTING FACILITIES 51
Electric Service LS -- -- (24)
Paving, Walks, Curbs & Gutters LS -- -- (23)
Information Systems LS -- -- (4)
ESTIMATED CONTRACT COST 530
CONTINGENCY PERCENT (5.00%) 27
SUBTOTAL 557
SUPERVISION, INSPECTION & OVERHEAD (6.00%) 33
TOTAL REQUEST 590
TOTAL REQUEST (ROUNDED) 600
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS (200)

Construct a Combat Pistol Range with 15 lanes to be used for instructional training and combat pistol qualifications. Each lane is 8 meters wide and displays 7 stationary targets from 10 to 31 meters downrange. Primary facilities include all construction within the perimeter of the range complex and consists of a control tower, operation/storage building, general instruction building, latrine, ammunition breakdown building, bleacher enclosure, covered mess, stationary target emplacements, primary and secondary power and data distribution system, maintenance trails, parking area, flag pole, site improvements, and demolition of four wooden buildings (1,000 SF). Support facilities include all construction outside the perimeter of the range complex and consist of extending the access road and primary power and communication lines approximately 1 mile. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide Active Army, Reserve, and National Guard units with combat pistol training to improve combat readiness.

1996 99 27929 P REVISION DATE: 27 NOV
 ARMY MCA (AS OF 11/27/1996 AT 07:56:34)
 LAF=1.05

Fort Example
 CONUS
 Combat Pistol Qualification Course 27929
 CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting combat pistol training.
 IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse impact on combat pistol training. Combat pistol training proficiency will not be attained to a desirable or acceptable degree for combat activity.
 ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 27929 P REVISION DATE: 27 NOV 1996
 ARMY MCA (AS OF 11/27/1996 AT 07:56:34)
 LAF=1.05
 Fort Example
 CONUS
 Combat Pistol Qualification Course 27929

			U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY.						
2.A1 GENERAL.						
1.0)	17928	Combt Pistol Qual Course	LS	--	--	(478)
2.0)		Communications	LS	--	--	(1)
2.B SUPPORTING FACILITIES.						
2.B1 Electric Service						
1)		Primary Overhead Line	MI	1.00	23,700	24
2.B4 Paving, Walks, Curbs & Gutters						
1)		Gravel Access Road	MI	1.00	23,100	23
2.B7 Information Systems						
1)		Overhead Line	MI	1.00	3,600	4

1999 27929 P REVISION DATE: 27 NOV 1996

MCA (AS OF 11/27/1996 AT 07:56:44)

LAF=1.05

DATE 27 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 27929

PROJECT TITLE: Combat Pistol Qualification Course

INSTALLATION: Fort Example

LOCATION: CONUS

QUANTITATIVE DATA

(U/M EA)

A.	TOTAL REQUIREMENT	1	
B.	EXISTING SUBSTANDARD		
C.	EXISTING ADEQUATE		
D.	FUNDED, NOT INVENTORY		
E.	ADEQUATE ASSETS		
//////////////////////////////////////AUTHORIZED FUNDED			
F.	UNFUNDED PRIOR AUTHORIZATION	//////////////////////////////////////	
G.	INCLUDED IN FY PROGRAM		
H.	DEFICIENCY (A-E-F-G)	1	1

1999 27929 P REVISION DATE: 27 NOV 1996

MCA (AS OF 10/30/1992 AT 07:56:44)

LAF=1.05

DATE 27 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 27929

PROJECT TITLE: Combat Pistol Qualification Course

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

1. STATUS

A.	DESIGN START DATE.....	0000
B.	PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR).....	.00
C.	PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR).....	.00
D.	PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR).....	.00
E.	CONCEPT COMPLETE DATE.....	0000
F.	DESIGN COMPLETE-DATE.....	0000

2. BASIS

A. STANDARD OR DEFINITIVE DESIGN (YES/NO)

B. WHERE DESIGN WAS MOST RECENTLY USED:

3. COST (TOTAL - \$000)

A.	PRODUCTION OF PLANS AND SPECS.....
B.	ALL OTHER DESIGN COSTS.....
C.	TOTAL COST (C) = (A)+(B) OR (D)+(E).....
D.	CONTRACT.....
E.	IN HOUSE.....

4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 27929 P REVISION DATE: 27 NOV 1996

MCA (AS OF 11/27/1996 AT 07:56:44)

LAF=1.05

DATE 27 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 27929

PROJECT TITLE: Combat Pistol Qualification Course

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities scope and cost breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining Communication requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391.

The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(478)

1999 27929 P REVISION DATE: 27 NOV 1996

MCA (AS OF 11/27/1996 AT 07:56:44)

LAF=1.05

DATE 27 NOV 1996

FY 99 PROGRAM

PROJECT NUMBER: 27929

PROJECT TITLE: Combat Pistol Qualification Course

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

(CONT)..

Control Tower	SF	256	394.00	101
General Instruction Building	SF	800	66.00	53
Operation/Storage Building	SF	800	59.00	47
Latrine	SF	480	77.00	37
Ammunition Breakdown Building	SF	120	98.00	12
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23
Stationary Target Emplacements	EA	105	750.00	79
Primary & Secondary Power & Data Distribution System	LF	3,000	14.00	42
Flag Pole	EA	1	2,370.00	2
Storm Drainage (incls headwalls)	LF	175	68.00	12
Earthwork	CY	4,750	7.00	33
Demolition	SF	1,000	3.50	4
Parking Area (Gravel)	SY	625	4.50	3
Maintenance Trails (Gravel)	SY	2,000	4.50	9
Communications	LS			1

99 33880 W REVISION DATE: 21 SEP 1996
 MCA (AS OF 09/21/96 AT 10:42:32)
 LAF= 1.04

Fort Example					
CONUS		Infantry Squad Battle Course		TEMP	
	179 26				1,300
PRIMARY FACILITY					1,098
Infantry Squad Battle Course Ran		LS -- --	(1,097)
Communications		LS -- --	(1)
SUPPORT FACILITIES					85
Electric Service		LS -- --	(40)
Paving, Walks, Curbs & Gutters		LS -- --	(39)
Information Systems		LS -- --	(6)
SUBTOTAL					1,183
CONTINGENCY PERCENT (5.00%)					59
TOTAL CONTRACT COST					1,242
SUPERVISION, INSPECT & OVHD (6.00%)					75
TOTAL REQUEST					1,317
TOTAL REQUEST (ROUNDED)					1,300
INSTALLED EQUIPMENT-OTHER APPROP			(340)

Construct an Infantry Squad Battle Course (ISBC) Range consisting of five wartime objectives to be encountered. Targets and structures required down range consist of 22 stationary infantry target emplacements and 6 infantry moving target emplacements; 6 stationary armor targets emplacements; armored moving target emplacements; 10 mortar simulation device emplacements; 22 infantry hostile fire simulation device emplacements; 4 machine gun bunkers; 1 observation bunker and 2 trenches. The stationary infantry target emplacements will also accommodate the night muzzle flash simulation devices. Primary facilities include all construction within the perimeter of the range complex and consist of a control tower, latrine, operations/storage building, general instruction building, ammunition breakdown building, bleacher enclosure, covered mess, dirt road, parking areas, target emplacements, bunkers, trenches, helicopter pad, secondary power and data distribution systems, communications, site improvements, and demolition of ten wooden buildings (10,000 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the gravel access road, primary power, and communications lines a distance of approximately 2 miles. Targetry to be funded by other appropriations(OPA).

99 33880 W REVISION DATE: 21 SEP 1996
 MCA (AS OF 09/21/96 AT 10:42:32)

Fort Example--CONUS
 New TEMP
 Infantry Squad Battle Course

11. REQUIREMENT:	1EA ADEQUATE:	0EA SUBSTD:	0EA
------------------	---------------	-------------	-----

PROJECT: This project is required to provide the active Army, Reserve, and National Guard Units with a permanent facility to exercise live fire training requirements to improve combat readiness for infantry soldiers.

REQUIREMENT: There are no existing facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED:
 If this project is not provided, there will be a significant adverse effort on the unit training. The infantry units will not be able to attain the degree of proficiency required for combat.

ADDITIONAL:
 The installation is responsible for incorporating PAX Newsletter No. 30, antiterrorist requirements, when completing paragraph 11.

/s/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START:	APRIL	1999	INDEX: 2105
ESTIMATED MIDPOINT OF CONSTRUCTION:	OCTOBER	1999	INDEX: 2131
ESTIMATED CONSTRUCTION COMPLETION:	APRIL	2000	INDEX: 2150

99 33880 W REVISION DATE: 21 SEP 1996
 MCA (AS OF 09/21/96 AT 10:42:32)
 Fort Example--CONUS
 New TEMP
 Infantry Squad Battle Course

99 33880 W REVISION DATE: 21 SEP 1996
 MCA (AS OF 09/21/96 AT 10:42:32)
 Fort Example--CONUS
 CONUS
 New TEMP
 Infantry Squad Battle Course

SUPPLEMENTAL DATA

- A. ESTIMATED ANNUAL COST TO OPERATE PROPOSED FACILITY (\$000)
- B. NUMBER OF ADDITIONAL PERSONNEL NECESSARY TO CARRY OUT THE FUNCTION OF THE PROPOSED FACILITY (PEOPLE)
- C. ESTIMATED LIFE-CYCLE COST TO OPERATE AND MAINTAIN THE DESIRED FACILITY (\$000)
- D. ESTIMATED LIFE-CYCLE COST TO OPERATE AND MAINTAIN THE EXISTING FACILITY IF NEW FACILITY IS A REPLACEMENT (\$000)
- E. PLANNING AND DESIGN DATA (ESTIMATE)1. STATUS
 - a. DESIGN START DATE
 - b. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR).
 - c. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR).
 - d. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR).
 - e. CONCEPT COMPLETE DATE
 - f. DESIGN COMPLETE DATE

(CONT)

SUPPLEMENTAL DATA

- 2. BASIS
 - a. STANDARD OF DEFINITIVE DESIGN YES NO
 - b. WHERE DESIGN WAS MOST RECENTLY USED:
 - 3. COST (TOTAL - \$000)
 - a. PRODUCTION OF PLANS AND SPECS.
 - b. ALL OTHER DESIGN COSTS
 - c. TOTAL COST (c) = (a)+(e)
 - d. CONTRACT
 - e. IN HOUSE
 - 4. CONSTRUCTION START DATE (PLANNED).
- QUANTITATIVE DATA (U/M EA)
- A. TOTAL REQUIREMENT 1
 - B. EXISTING SUBSTANDARD 0
 - C. EXISTING ADEQUATE 0
 - D. FUNDED, NOT INVENTORY
 - E. ADEQUATE ASSETS (C + D) 0
- //////////////////////////////////////AUTHORIZED FUNDED
- F. UNFUNDED PRIOR AUTHORIZATION //////////////////////////////////
 - G. INCLUDED IN FY PROGRAM
 - H. DEFICIENCY (A-E-F-G) 1 1D1.

99 33880 W REVISION DATE: 21 SEP 1996
 MCA (AS OF 09/21/96 AT 10:42:32)
 DATE 23 NOV 1996 FY 99 PROGRAM
 PROJECT NUMBER: 00000
 PROJECT TITLE: Infantry Squad Battle Course Rng
 INSTALLATION: Fort Example
 LOCATION: CONUS
 SECTION 7 - GENERAL
 7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD1391 has been revised in accordance with current PAX Newsletter No. 16, "DD1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities scope and cost breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD1391's. PAX Newsletter No. 34 should be used for determining Communication requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for Anti-terrorist measures when completing Paragraph D1 of DD Form 1391.

99 33880 W REVISION DATE: 21 SEP 96
 MCA (AS OF 09/21/96 AT 10:42:32) Fort Example--CONUS
 CONUS New TEMP
 Infantry Squad Battle Course
 The installation is responsible for providing information in Paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.
 Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.
 Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD1391's.

ITEM	U/M	QTY	UNIT COST	COST(\$000)	
Primary Facilities					(1,097)
Control Tower	SF	256	394.00	101	
General Instruction Bldg	SF	800	66.00	53	
Operations/Storage Building	SF	800	50.00	40	
Latrine	SF	240	95.00	23	
Ammunition Breakdown Building	SF	120	98.00	12	
Bleacher Enclosure	SF	576	36.00	21	
Covered Mess	SF	760	30.00	23	
Primary & Secondary Power & Data					
Transformers	EA	3	2,000.00	6	
Panels	EA	3	1,780.00	5	
Underground Secondary	LF	16,400	1.73	28	
Data Cable	LF	16,400	0.65	11	
Cable Junction Boxes	EA	45	1,150.00	52	
Data Breakout Box	EA	1	1,930.00	2	
Trench & Backfill	LF	19,680	0.94	39	
Armor Moving Target	EA	1	150,000.00	150	
Stationary Armor Target Emplacements	EA	6	5,300.00	32	
Stationary Infantry Target Empla	EA	22	750.00	17	
Machine gun Bunker	EA	4	12,000.00	48	
Observation Bunker	EA	1	15,000.00	15	
Infantry Moving Target Emplacements	EA	6	4,000.00	24	
Inf Hostile Fire Sim Empl	EA	22	450.00	10	
Mortar Sim Device Emplacements	EA	10	650.00	7	
Trenches (w/timber walls, french drain)	EA		32,000.00	64	
Parking Area	SY	750	3.50	3	
Gravel Road	SY	10,300	3.50	36	
Storm Drainage (Incls Headwalls)	LF	725	25.00	18	
Earthwork	CY	35,000	6.00	210	
Demolition	SF	10,000	3.00	30	
PA System, Speaker Post and Wiring	LS	--	--	15	
Flag Pole	EA	1	2,000.00	2	
Communications	LS	--	--	1	

99 33880 W REVISION DATE: 21 SEP 96
MCA (AS OF 09/21/96 AT 10:42:32) 09 SEP 96 Fort Example--CONUS
CONUS New TEMP
Infantry Squad Battle Course

	U/M	QTY	UNIT COST	COST
9.B Supporting Facilities				
9.B1 Electric Service	LS	-	-	(40)
1) Primary Overhead Line	MI	2	20,000	40
9.B4 Paving, Walks, Curbs & Gutters	LS	-	-	(39)
1) Gravel Access Road	MI	2	19,500	39
9.B7 Communication	LS	-	-	(6)
1) Overhead Line	MI	2	3,000	6

99 00000 P DATE: 23 NOV 1996
ARMY MCA (AS OF 11/23/1996 AT 14:00:00)
LAF=1.05
Fort Example
CONUS Infantry Platoon Battle Course

179 26	00000	1,950
PRIMARY FACILITY		
INFANTRY PLATOON BATTLE COURSE RNG		LS -- -- (1,531)
Communications		LS -- -- (1)
SUPPORTING FACILITIES		
Electric Service		LS -- -- (95)
Paving, Walks, Curbs & Gutters		LS -- -- (93)
Information Systems		LS -- -- (14)
ESTIMATED CONTRACT COST		1,734
CONTINGENCY PERCENT (5.00%)		86
SUBTOTAL		1,820
SUPERVISION, INSPECTION & OVERHEAD (6.00%)		110
TOTAL REQUEST		1,930
TOTAL REQUEST (ROUNDED)		1,950
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS		(640)

Construct an Infantry Platoon Battle Course (IPBC) Range consisting of 6 wartime objectives. Targets and structures required downrange are 43 SIT emplacements, 14 IMT emplacements, 6 SAT emplacements, 1 AMTC emplacement, 8 MSD emplacements, 43 IHFS device emplacements, 9 machinegun bunkers, 1 assault/defend house, 1 trench, and 1 misfire pit. The SIT emplacements will also accommodate the NMFS devices. Primary facilities include all construction within the perimeter of the range complex and consist of control tower, latrine, general instruction building, operations/storage building, ammunition breakdown building, bleacher enclosure, covered mess, maintenance trails, parking areas, target emplacements, bunkers, trenches, helicopter pad, secondary power and data distribution systems, communications, site improvements, and demolition of 10 wooden buildings (15,000 SF). Heating and cooling of the control tower will be provided by a 3-ton package unit. Support facilities include all construction outside the perimeter of the range complex, which consists of extending the access road and the primary power and communications lines a distance of approximately 2 miles. Targetry to be funded by other appropriations (OPA).

REQUIREMENT: This project is required to provide the Active Army, Reserve, and National Guard units with a permanent facility to exercise all live fire training requirements to improve combat readiness for infantry soldiers.

99 00000 P DATE: 23 NOV 1996
 ARMY MCA (AS OF 11/23/1996 AT 14:00:00)
 LAF=1.05

Fort Example
 CONUS
 Infantry Platoon Battle Course Rng 00000

CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, there will be a significant adverse effect on the unit training. The infantry units will not be able to attain the degree of proficiency required for combat.

ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START: APR 1999 INDEX: 2105
 ESTIMATED MIDPOINT OF CONSTRUCTION: OCT 1999 INDEX: 2131
 ESTIMATED CONSTRUCTION COMPLETION: APR 2000 INDEX: 2150

99 00000 P DATE: 23 NOV 1996
 ARMY MCA (AS OF 11/23/1996 AT 14:00:00)
 LAF=1.05

Fort Example
 CONUS
 Infantry Platoon Battle Course Rng 00000

	U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY.				
2.A1 GENERAL.				
1.0) Infantry Platoon Battle Course	LS	--	--	(1,530)
2.0) Communications	LS	--	--	(1)
2.B SUPPORTING FACILITIES.				
2.B1 Electric Service				
1) (Primary Overhead Line)	MI	4.00	23,720	95
2.B4 Paving, Walks, Curbs & Gutters				
1) (Gravel Access Road)	MI	4.00	23,120	93
2.B7 Information Systems				
1) (Overhead Line)	MI	4.00	3,600	14

99 00000 P DATE: 23 NOV 1996
 ARMY MCA (AS OF 11/23/1996 AT 14:00:00)
 LAF=1.05
 DATE 23 NOV 1996 FY 99 PROGRAM
 PROJECT NUMBER: 00000
 PROJECT TITLE: Infantry Platoon Battle Course Rng
 INSTALLATION: Fort Example
 LOCATION: CONUS

QUANTITATIVE DATA
 (U/M EA)

A. TOTAL REQUIREMENT	1	
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////	AUTHORIZED	FUNDED
F. UNFUNDED PRIOR AUTHORIZATION		//////////////////////////////////
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

99 00000 P DATE: 23 NOV 1996
 ARMY MCA (AS OF 11/23/1992 AT 14:00:00)
 LAF=1.05
 DATE 23 NOV 1996 FY 99 PROGRAM
 PROJECT NUMBER: 00000
 PROJECT TITLE: Infantry Platoon Battle Course Rng
 INSTALLATION: Fort Example
 LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

1. STATUS

A. DESIGN START DATE.....	0000
B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR).....	.00
C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR).....	.00
D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR).....	.00
E. CONCEPT COMPLETE DATE.....	0000
F. DESIGN COMPLETE-DATE.....	0000

2. BASIS

A. STANDARD OR DEFINITIVE DESIGN (YES/NO)	
B. WHERE DESIGN WAS MOST RECENTLY USED:	3. COST (TOTAL - \$000)
A. PRODUCTION OF PLANS AND SPECS.....	
B. ALL OTHER DESIGN COSTS.....	
C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....	
D. CONTRACT.....	
E. IN HOUSE.....	

4. CONSTRUCTION START DATE (PLANNED).....	0000
---	------

99 00000 P DATE: 23 NOV 1996
 ARMY MCA (AS OF 11/23/1996 AT 14:00:00)
 LAF=1.05
 DATE 23 NOV 1996 FY 99 PROGRAM
 PROJECT NUMBER: 00000
 PROJECT TITLE: Infantry Platoon Battle Course Rng
 INSTALLATION: Fort Example
 LOCATION: CONUS
 SECTION 7 - GENERAL
 7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391. The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
7A. PRIMARY FACILITIES				(1,531
Control Tower	SF	256	394.00	101
General Instruction Bldg	SF	800	66.00	53
Operations/Storage Bldg	SF	800	59.00	47
Latrine	SF	240	95.00	23
Ammo Breakdown Bldg	SF	120	98.00	12
Bleacher Enclosure	SF	576	36.00	21
Covered Mess	SF	760	30.00	23

ARMY MCA (AS OF 11/23/1996 AT 14:00:00) DATE: 23 NOV 1996
 LAF=1.05
 DATE 23 NOV 1996 FY 99 PROGRAM

PROJECT NUMBER: 00000
 PROJECT TITLE: Infantry Platoon Battle Course Rng
 INSTALLATION: Fort Example
 LOCATION: CONUS
 SECTION 7 - GENERAL

7A GENERAL				(CONT) . .
Primary & Secondary				
Power Transformers	EA	4	2,000.00	8
Panels	EA	5	1,788.00	9
Underground Secondary	LF	45,100	1.73	78
Data Cable	LF	45,100	0.65	29
Cable Junction Boxes	EA	72	1,150.00	83
Data Breakout Box	EA	3	1,930.00	6
Trench & Backfill	LF	38,000	2.00	76
Armor Moving Target	EA	1	150,000.00	150
SAT Emplacements	EA	6	5,300.00	32
SIT Emplacements	EA	43	750.00	33
Machinegun Bunker	EA	9	12,000.00	108
IMT Emplacements	EA	14	4,000.00	56
IHFS Emplacements	EA	43	450.00	19
MSD Emplacements	EA	8	650.00	5
Assault/Defend House	SF	768	25.00	19
Trench (w/timber walls, French drain)	EA	1	32,000.00	32
Misfire Pit	EA	1	2,370.00	2
Parking Area	SY	750	4.50	3
Maintenance Trails (Gravel)	SY	10,300	4.50	46
Helipad	SY	1,111	35.00	39
Storm Drainage (incl headwalls)	LF	725	30.00	22
Earthwork	CY	50,000	7.00	350
Demolition	SF	15,000	1.50	23
PA System, Speaker, Post, and Wiring	LS	--	--	20
Flag Pole	EA	1	2,370.00	2
Communications	LS	--	--	1

99 27766 P REVISION DATE: 24 SEP 1996
 ARMY MCA (AS OF 09/24/1996 AT 14:29:25)
 LAF=1.05

Fort Example
 CONUS MOUT Training Complex

179 23	27766	5,100
PRIMARY FACILITY		4,408
MOUT TRAINING COMPLEX	LS -- --	(4,407)
Communications	LS -- --	(1)
SUPPORTING FACILITIES		174
Electric Service	LS -- --	(66)
Paving, Walks, Curbs & Gutters	LS -- --	(94)
Information Systems	LS -- -	(14)
ESTIMATED CONTRACT COST		4,582
CONTINGENCY PERCENT (5.00%)		229
SUBTOTAL		4,811
SUPERVISION, INSPECTION & OVERHEAD (6.00%)		289
TOTAL REQUEST		5,100
TOTAL REQUEST (ROUNDED)		5,100
INSTALLED EQUIPMENT-OTHER APPROPRIATIONS		(36)

Construct a Military Operations On Urbanized Terrain (MOUT) Training Complex consisting of a nonlive-fire company training facility (CTF) and a live-fire MOUT Assault Course (MAC). The CTF and MAC will be separated in order to permit concurrent use of each facility. Primary facilities include all construction within the boundary of each training complex. For the CTF, the primary facilities consist of 32 buildings (16 intact and 16 rubble to varying degrees) of concrete masonry unit construction, with streets, parking, a bridge, underground sewer network, and other features required to simulate an urban setting, as well as a latrine, site improvements, and storm drainage. Only one building will be wired for electrical power. The primary facilities of the MAC include an urban defense building (with basement), an underground trainer, and six live-fire training stations with structures of sacrificial materials, plus secondary power, communications, service roads, parking, latrine, site improvements, and storm drainage. Primary facility construction also includes the demolition of three wooden buildings (3,000 SF). Support facilities include all construction outside the perimeter of the training complexes, which consists of 4 miles (2.5 for MAC and 1.5 for the CTF) of access road and the primary power and communications lines. A scale model of the MOUT is to be provided to aid training. Targetry will be funded by other appropriations (OPA). Scale model may be funded by construction funds or other appropriations.

99 27766 P REVISION DATE: 24 SEP 1996
 ARMY MCA (AS OF 09/24/1996 AT 14:29:25)
 LAF=1.05

Fort Example
 CONUS MOUT Training Complex 27766

REQUIREMENT: This project is required to provide facilities for training the Active Army, Reserve, and National Guard units in tactics and techniques required for MOUT operations under simulated combat conditions. Both a CTF and MAC are necessary for individual and small unit training, since MOUT operations are characterized by semi-independent action by small units to accomplish the methodical clearance of assigned zones in urban areas.

CURRENT SITUATION: There are no existing facilities available at Fort Example capable of supporting these training activities.

IMPACT IF NOT PROVIDED: If this project is not provided, it will be impossible for assigned units to acquire and maintain the proficiency required for combat units in an urban environment. That proficiency for combat can only result from realistic training under simulated combat conditions.

ADDITIONAL: The installation is responsible for incorporating PAX Newsletter No. 30 antiterrorist requirements when completing paragraph 11.

/S/ JAMES Z. BLANK
 Lieutenant General, USA
 Commanding

ESTIMATED CONSTRUCTION START:	APR 1999	INDEX: 2105
ESTIMATED MIDPOINT OF CONSTRUCTION:	OCT 1999	INDEX: 2131
ESTIMATED CONSTRUCTION COMPLETION:	APR 2000	INDEX: 2150

99 27766 P REVISION DATE: 24 SEP 1996

ARMY MCA (AS OF 09/24/1996 AT 14:29:25)

LAF=1.05

Fort Example

CONUSMOUT Training Complex 27766

	U/M	Qty	Unit Cost	Cost (\$000)
2.A PRIMARY FACILITY.				
2.A1 GENERAL.				
1.0) MOUT TRAINING COMPLEX	LS	--	--	(4,407)
2.0) Communications	LS	--	--	(1)
2.B SUPPORTING FACILITIES.				
2.B1 Electric Service				
1) Primary Overhead Line (CTF)	MI	1.50	24,000	36
2) Primary Overhead Line (MAC)	MI	2.50	12,000	30
2.B4 Paving, Walks, Curbs & Gutters				
1) (Gravel Access Road)	MI	4.00	23,400	94
2.B7 Information Systems				
1) (Overhead Line)	MI	4.00	3,600	14

1999 27766 P REVISION DATE: 24 SEP 1996

MCA (AS OF 09/24/1996 AT 14:29:40)

LAF=1.05

DATE 24 SEP 1996 FY 99 PROGRAM

PROJECT NUMBER: 27766

PROJECT TITLE: MOUT Training Complex

INSTALLATION: Fort Example

LOCATION: CONUS

QUANTITATIVE DATA (U/M EA)

	AUTHORIZED	FUNDED
A. TOTAL REQUIREMENT		1
B. EXISTING SUBSTANDARD		
C. EXISTING ADEQUATE		
D. FUNDED, NOT INVENTORY		
E. ADEQUATE ASSETS		
//////////////////////////////////////		
F. UNFUNDED PRIOR AUTHORIZATION		//////////////////////////////////////
G. INCLUDED IN FY PROGRAM		
H. DEFICIENCY (A-E-F-G)	1	1

1999 27766 P REVISION DATE: 24 SEP 1996

MCA (AS OF 09/24/1996 AT 14:29:40)

LAF=1.05

DATE 24 SEP 1996

FY 99 PROGRAM PROJECT

NUMBER: 27766

PROJECT TITLE: MOUT Training Complex

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 6 - PLANNING AND DESIGN DATA (ESTIMATE)

1. STATUS

A. DESIGN START DATE..... 0000
 B. PERCENT COMPLETE AS OF 15 SEP 97 (DSGN YR)..... .00
 C. PERCENT COMPLETE AS OF 01 JAN 98 (BDGT YR)..... .00
 D. PERCENT COMPLETE AS OF 01 OCT 98 (PROG YR)..... .00
 E. CONCEPT COMPLETE DATE..... 0000
 F. DESIGN COMPLETE-DATE..... 0000

2. BASIS

A. STANDARD OR DEFINITIVE DESIGN (YES/NO)
 B. WHERE DESIGN WAS MOST RECENTLY USED:

3. COST (TOTAL - \$000)

A. PRODUCTION OF PLANS AND SPECS.....
 B. ALL OTHER DESIGN COSTS.....
 C. TOTAL COST (C) = (A)+(B) OR (D)+(E).....
 D. CONTRACT.....
 E. IN HOUSE.....

4. CONSTRUCTION START DATE (PLANNED)..... 0000

1999 27766 P REVISION DATE: 24 SEP 1996

MCA (AS OF 09/24/1991 AT 14:29:40)

LAF=1.05

DATE 24 SEP 1996

FY 99 PROGRAM

PROJECT NUMBER: 27766

PROJECT TITLE: MOUT Training Complex

INSTALLATION: Fort Example

LOCATION: CONUS

SECTION 7 - GENERAL

7A GENERAL

NOTES ON THIS SAMPLE 1391

This sample DD 1391 has been revised in accordance with current PAX Newsletter No. 16, "DD 1391 Preparation Guidance." The front section has been made into an executive summary by moving the Primary Facilities Scope and Cost Breakdown to paragraph D1 and moving certain technical data to the Justification and/or Special Requirements paragraphs designated in AR 415-15.

PAX Newsletter No. 16 should be used as a guide by everyone involved in the preparation and review of DD 1391's. PAX Newsletter No. 34 should be used for determining communications requirements.

This range has been reviewed and approved by the installation and MACOM safety offices. The installation will be responsible for incorporating PAX Newsletter No. 30 requirements for antiterrorist measures when completing paragraph D1 of DD Form 1391.

The installation is responsible for providing information in paragraph D6 on the acquisition schedule of installed equipment (targetry systems) which is funded by other appropriations.

Project justification for range modernization should address the economic solutions, improvements in safety, efficiency, and quality of training.

Portions of the scope and all cost data are examples only and should not be used as a basis for preparation of actual DD 1391's.

<u>ITEM</u>	<u>U/M</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>COST (\$000)</u>
7A. PRIMARY FACILITY				(4,408)

1999 27766 P REVISION DATE: 24 SEP 1996
MCA (AS OF 09/24/1996 AT 14:29:40)
LAF=1.05
DATE 24 SEP 1996 FY 99 PROGRAM
PROJECT NUMBER: 27766
PROJECT TITLE: MOUT Training Complex
INSTALLATION: Fort Example
LOCATION: CONUS
SECTION 7 - GENERAL
7A GENERAL (CONT)..

COMPANY COLLECTIVE TRAINING FACILITY
Intact Structures:

Hotel	SF	9,408	34.00	320
Apartment Building	SF	7,680	34.00	261
Office Building (2)	SF	8,960	30.00	269
Business/Residential (2)	SF	9,216	30.00	277
Townhouse (2)	SF	12,800	43.00	550
School	SF	8,240	30.00	247
Bank	SF	1,152	28.00	32
Vehicle Service Station	SF	1,664	34.00	57
Warehouse	SF	4,150	30.00	125
Residential (4)	SF	4,100	34.00	139

Rubble Structures:

City Hall	SF	4,704	31.00	146
Apartment Building (2)	SF	3,840	31.00	119
Office Building	SF	2,240	29.00	65
Business/Residential (2)	SF	4,608	29.00	134
Townhouse (2)	SF	5,800	38.00	220
School	SF	4,320	28.00	121
Retail Store	SF	576	25.00	14
Vehicle Service Station	SF	832	31.00	26
Warehouse	SF	2,075	28.00	58
Residential (4)	SF	2,050	31.00	64

Other Structure

Bridge	LS	--	--	68
Urban Street	LS	--	--	128
Underground Sewer System	LS	--	--	95
Partial Basements (4)	SF	4,200	36.00	151
Latrine	SF	192	96.00	18

99 27766 P REVISION DATE: 24 SEP 1996
ARMY MCA (AS OF 09/24/1996 AT 14:32:37)
LAF=1.05
DATE 24 SEP 1996 FY 99 PROGRAM
PROJECT NUMBER: 27766
PROJECT TITLE: MOUT Training Complex
INSTALLATION: Fort Example
LOCATION: CONUS
7A GENERAL (CONT)..

MOUT ASSAULT COURSE (MAC)

Vault and Flight	LS	--	--	5
Clearing Techniques Bldg.	LS	--	--	14
Grenadier Gunnery	LS	--	--	5
Destiny Doorway	LS	--	--	8
Dodge City	LS	--	--	14
Urban Defense Bldg (with basement)	SF	4,608	42.00	192
Underground Trainer	LS	--	--	42
Grenade House	SF	2,780	28.00	78
Latrine	SF	192	96.00	18
Target System Wiring	LS	--	--	24
Service Road	CY	10,100	17.00	172
Storm Drainage (incls headwalls)	LF	600	54.00	32
Earthwork	CY	12,000	7.00	84
Demolition	SF	3,000	4.00	12
Parking Area (Gravel)	SY	550	6.00	3
Communications	LS	--	--	1

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