

COST ESTIMATE

DATE PREPARED  
19 Feb 1981

SHEET 1 OF 1

WINE CREEK BASE  
CAMP LEVEUIL, NORTH CAROLINA 28542

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NO.  
LE206M

ESTIMATED BY  
DELMAR D. WEAVER.

CATEGORY OF WORK  
821-09

REPLACE BOILER NO. 47, RR-15

STATUS OF DESIGN  
 PED  20%  100%  FINAL  Other (Specify)

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING COST	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
BOILER, CONTROLS & ACCESSORIES	1	LS		120,000		1,500		121,500
VALVES, TRAPS, PIPING, ETC.	1	LS		12,000		20,000		32,000
ELECTRICAL	1	LS		1,200		800		2,000
BUILDING MODIFICATIONS	1	LS		500		800		1,300
SUBTOTAL				133,700		23,100		156,800
OVERHEAD (15%)								23,520
TAXES, INS. S.S., ETC. (12% OF LABOR)								2,772
SUBTOTAL								183,092
PROFIT (10%)								18,309
SUBTOTAL								201,401
BOND (1.5%)								3,021
SUBTOTAL								204,422
CONTINGENCY (10%)								20,442
TOTAL CONTRACT COST								224,864
A/E DESIGN (6%)								13,492
TOTAL ESTIMATED COST								238,356
								SAY: 231,800

*Additional Scope Info:*

*Trace that boilers are "A" type  
Provide smoke density indicators,  
steam meters. Project includes  
installation of duplex oil pumping  
system with two pumps & two heaters  
replacement of header stop valves,  
non-return valves, steam line between  
header & boiler, feedwater lines, oxygen  
trim system, oil meters, 100% air  
atomization with steam backup, hydraulic  
feedwater controls, sensors and controls for EMCS  
connection, gun type burners, dual exits from  
top of boiler.*



**COST ESTIMATE**

DATE PREPARED  
19 Feb 1981

SHEET 1 OF 1

ACTIVITY AND LOCATION  
MARINE CORPS BASE,  
CAMP LEJEUNE, NORTH CAROLINA 28542

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER  
LE207M

PROJECT TITLE  
REPLACE BOILER No. 46, RR-15

ESTIMATED BY  
DELMAR D. WEAVER

CATEGORY CODE NUMBER  
821-09

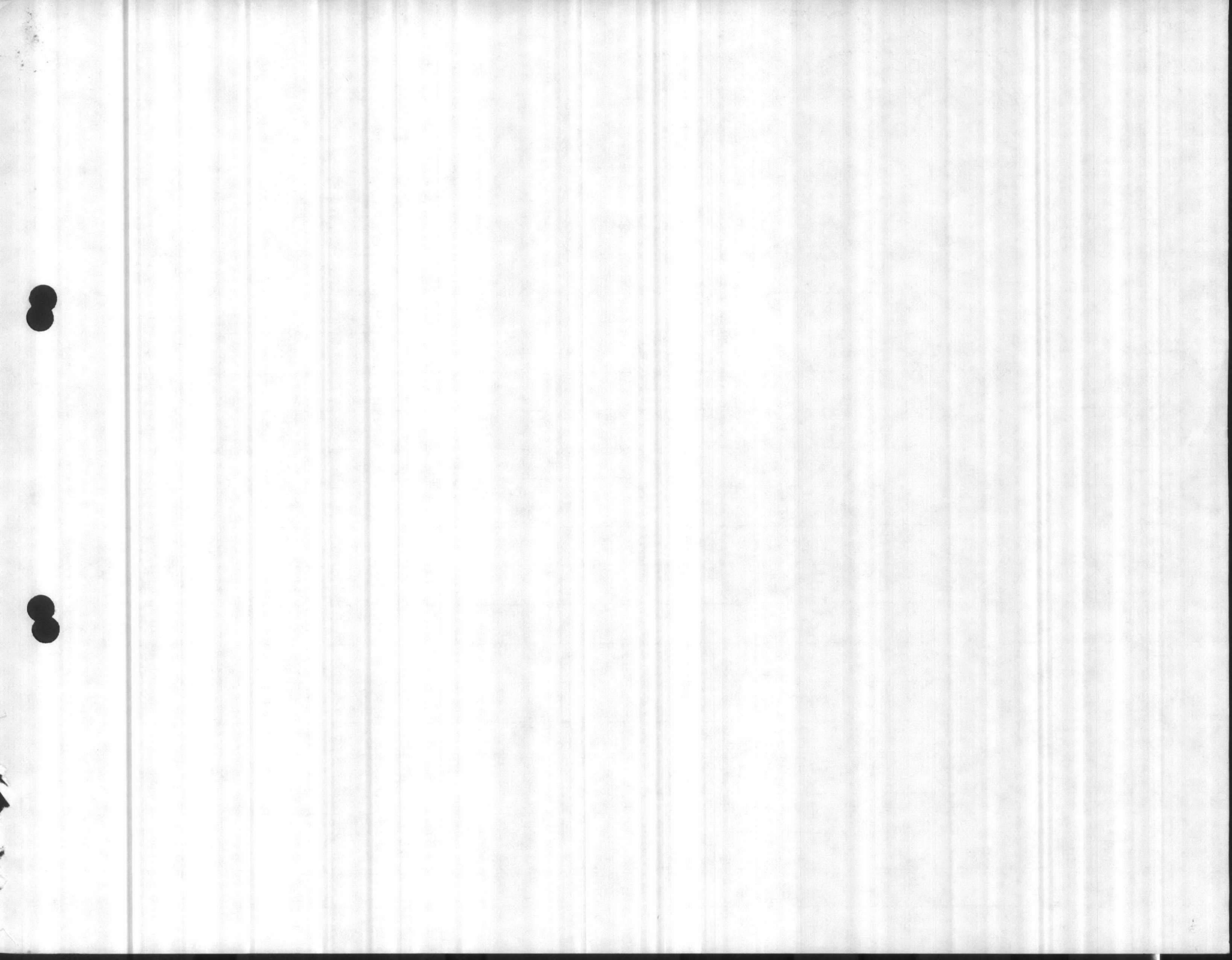
STATUS OF DESIGN  
 PED  30%  100%  FINAL  Other (Specify)

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
BOILER CONTROLS & ACCESSORIES	1	LS		120,000		1,500		121,500
VALVES, TRAPS, PIPING, ETC.	1	LS		12,000		20,000		32,000
ELECTRICAL	1	LS		1,200		800		2,000
BUILDING MODIFICATIONS	1	LS		500		800		1,300
SUBTOTAL				133,700		23,100		156,800
OVERHEAD(15%)								23,520
TAXES, INS., S.S. ETC.(12% OF LABOR)								2,772
SUBTOTAL								183,092
PROFIT(10%)								18,309
SUBTOTAL								201,401
BOND(1.5%)								3,021
SUBTOTAL								204,422
CONTINGENCY(10%)								20,400
TOTAL CONTRACT COST								224,822
A&E DESIGN (6%)								7,000
TOTAL ESTIMATED COST								231,822
								SAY: 231,800

*Additional Scope Items:*

*Insure that boilers are "A" type.  
Provide density indicators, steam meters.  
Replace header stop valve non-return  
valve, reworked steam line between  
header & boiler, feed water piping,  
oxygen trim system, oil meters, 100%  
air atomization, with steam backup,  
hydraulic feedwater controls, sensors  
and controls for EMCS connection,  
gun type burners, dual exits from  
boiler top, exhaust stacks.*



# COST ESTIMATE

DATE PREPARED  
19 Feb 1981

SHEET 1 OF 1

ARMY CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER  
LE209M

ESTIMATED BY  
DELMAR D. WEAVER

CATEGORY CODE NUMBER  
740-60

PROJECT TITLE  
REPLACE BOILER NO. 10, BLDG 2615

STATUS OF DESIGN  
 PED  
  30%  
  100%  
  FINAL  
  Other (Specify) \_\_\_\_\_

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LAHOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
BOILER, CONTROLS & ACCESSORIES	1	LS		120,000		1,500		121,500
VALVES, TRAPS, PIPING, ETC.	1	LS		12,000		20,000		32,000
ELECTRICAL	1	LS		1,200		800		2,000
BUILDING MODIFICATIONS	1	LS		500		800		1,300
SUBTOTAL				133,700		23,100		156,800
OVERHEAD (15%)								23,520
TAXES, INS., S.S., ETC. (12% OF LABOR)								2,772
SUBTOTAL								183,092
PROFIT (10%)								18,309
SUBTOTAL								201,401
BOND (1.5%)								3,021
SUBTOTAL								204,422
CONTINGENCY (10%)								20,400
TOTAL CONTRACT COST								224,822
A&E DESIGN (6%)								7,000
TOTAL ESTIMATED COST								231,822
							SAY:	231,800

*Additional Scope*  
*In-to:*  
 Insure that boilers are #1 type.  
 Provide smoke density indicators, steam meters,  
 Project includes installation of duplex  
 oil pumping system with two pumps  
 & two heaters, replacement of  
 header stop valves, non-return valves,  
 required steam line between header  
 & boiler, feedwater line  
 & boiler, venting trim system, oil  
 meters, 100 to air atomization with  
 steam backup, hydraulic feedwater  
 controls, sensors & controls for  
 EMCS connection, gun-type burner,  
 dual exits from top of boiler.



BOILER CONTRACT

DATE PREPARED  
19 Feb 1981

SHEET 1 OF 1

ENGINEERING BASE,  
1000 LEJEUNE, NORTH CAROLINA 28542  
REPLACE BOILER NO 55, KB-9

CONSTRUCTION CONTRACT NO

PROJECT NO  
LE200

ESTIMATED BY  
DELMAR D. WEAVER

CATEGORY COST NUMBER  
821-09

STATUS OF DESIGN  
 PCD  30%  100%  FINAL  Other (Specify)

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENTIRE PROJECT UNIT COST
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	
BOILER, CONTROLS & ACCESSORIES	1	LS		120,000		1,500	121,500
VALVES, TRAPS, PIPING, ETC.	1	LS		12,000		20,000	32,000
ELECTRICAL	1	LS		1,200		800	2,000
FOUNDING MODIFICATIONS	1	LS		500		800	1,300
SUBTOTAL				133,700		23,100	156,800
ADDITIONAL SCOPE INFO:							
INSURED (15%)							22,520
TOLLS, IRS., S.S., ETC. (12% OF LABOR)							2,772
SUBTOTAL							93,092
PROFIT (10%)							18,309
SUBTOTAL							201,401
BOND (1.5%)							3,021
SUBTOTAL							204,422
CONTINGENCY (10%)							20,400
TOTAL CONTRACT COST							224,822
AGE DESIGN (6%)							7,095
TOTAL ESTIMATED COST							231,917
							SAY: 231,500





## New Boiler

Type A

Gun Type Retractable Burner

Oxygen Trim System

Oil meters

100% air atomization and 100% steam at

Hydraulic Feedwater Controls (generator type)

Dual exits from boiler top (catwalks)

New Stack and breeching

Dual Fuel Oil Piping and Pumps (except #10)

Replace Header Stop Valve (top Boss)

Replace Non-Return Valve (with trap system)

Steam Meters (Flow)

Density indicators

Tank manifold piping (for feedwater) <sup>(46, 47, 10)</sup>

Feedwater Piping

Electric and Steam Heaters (Oil)

High and low Water Cutoff

Replace Steam line Between Header + Boiler

Full Instrumentation and Design

Tanks

