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1. COMPONENT NAVY	FY 19 ⁹² MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEB 12 1990
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3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NC 28542-5001	4. PROJECT TITLE WELL CONTROL SYSTEM TO WATER TREATMENT FACILITY, BLDG. 20
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5. PROGRAM ELEMENT	6. CATEGORY CODE 841-09	7. PROJECT NUMBER LE209R	8. PROJECT COST (\$000) 190.5
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9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
MICROCOMPUTER BASED - DIGITAL CONTROL				120.0
RADIOTELEMETRY SYSTEM				45.0
SUPPORTING FACILITIES:				-
WIRING AND CABLING				5.0
CENTRAL CONTROL PANEL				2.0
SUBTOTAL				170.0
CONTINGENCY - 5%				8.5
TOTAL CONTRACT COST				178.5
SIOH				12.0
TOTAL FUNDED COST				190.5
DESIGN - 6%				11.4
TOTAL REQUEST				201.9
TOTAL REQUEST ROUNDED				202.0

HOA MC

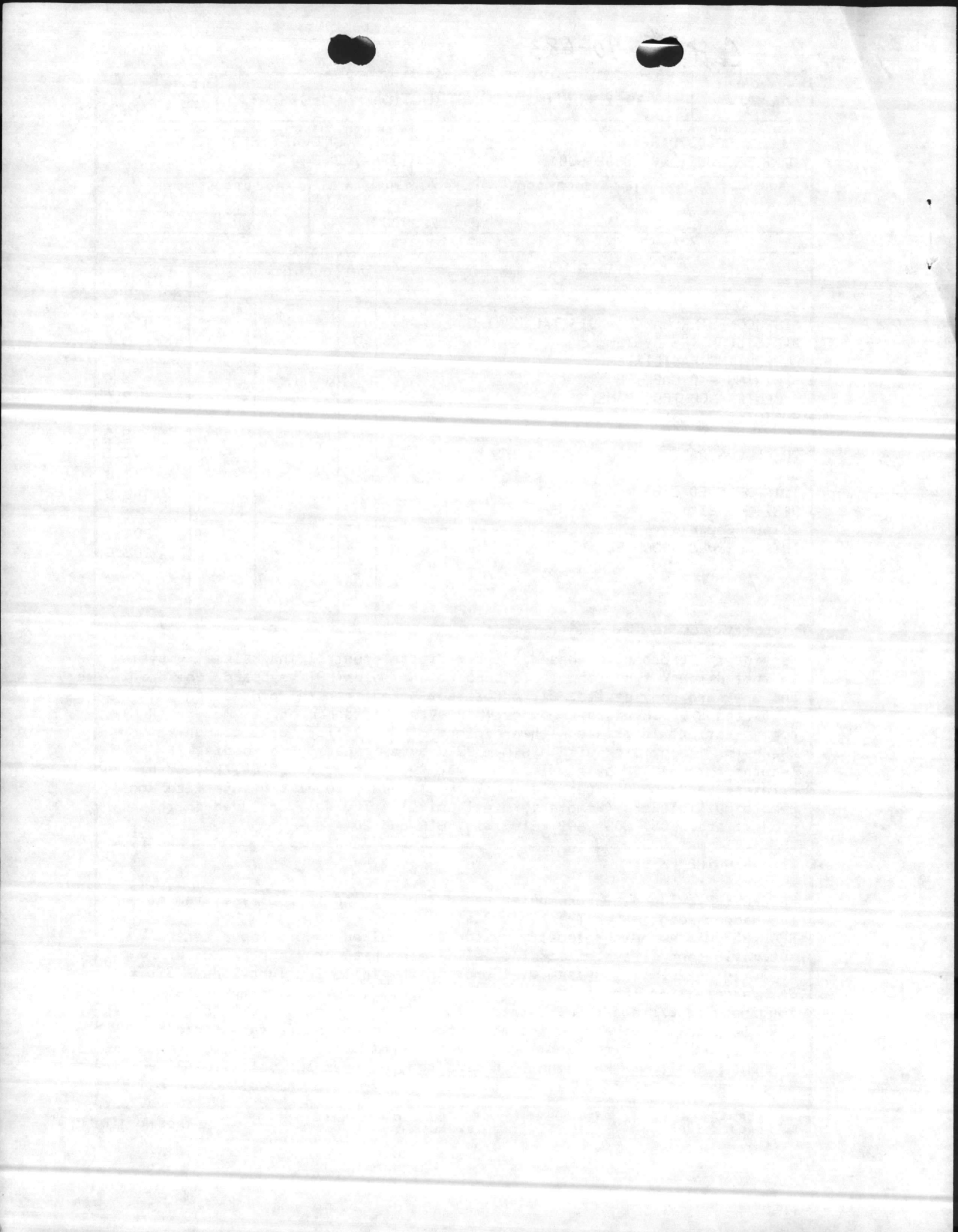
10. DESCRIPTION OF PROPOSED CONSTRUCTION

Provide a microcomputer-based, direct digital control and telemetry system to include desk type console to support one color CRT/keyboard, one printer and one hard copy device; microprocessor-based, central processing unit utilizing 8 or 16 bit technology; 512 bytes of random access memory (RAM) communications interface with a minimum of 6 multi-protocol communication channels; floppy disk with minimum 320K bytes capacity; hard disk (Winchester) of 10M bytes minimum capacity; color-graphic CRT/keyboard; printer; hardcopy device; system clock/calendar, local I/O interface and remote multiplexers (remote terminal units). The well included in this project are: 603, 606, 609, 610, 613, 616 and 20.

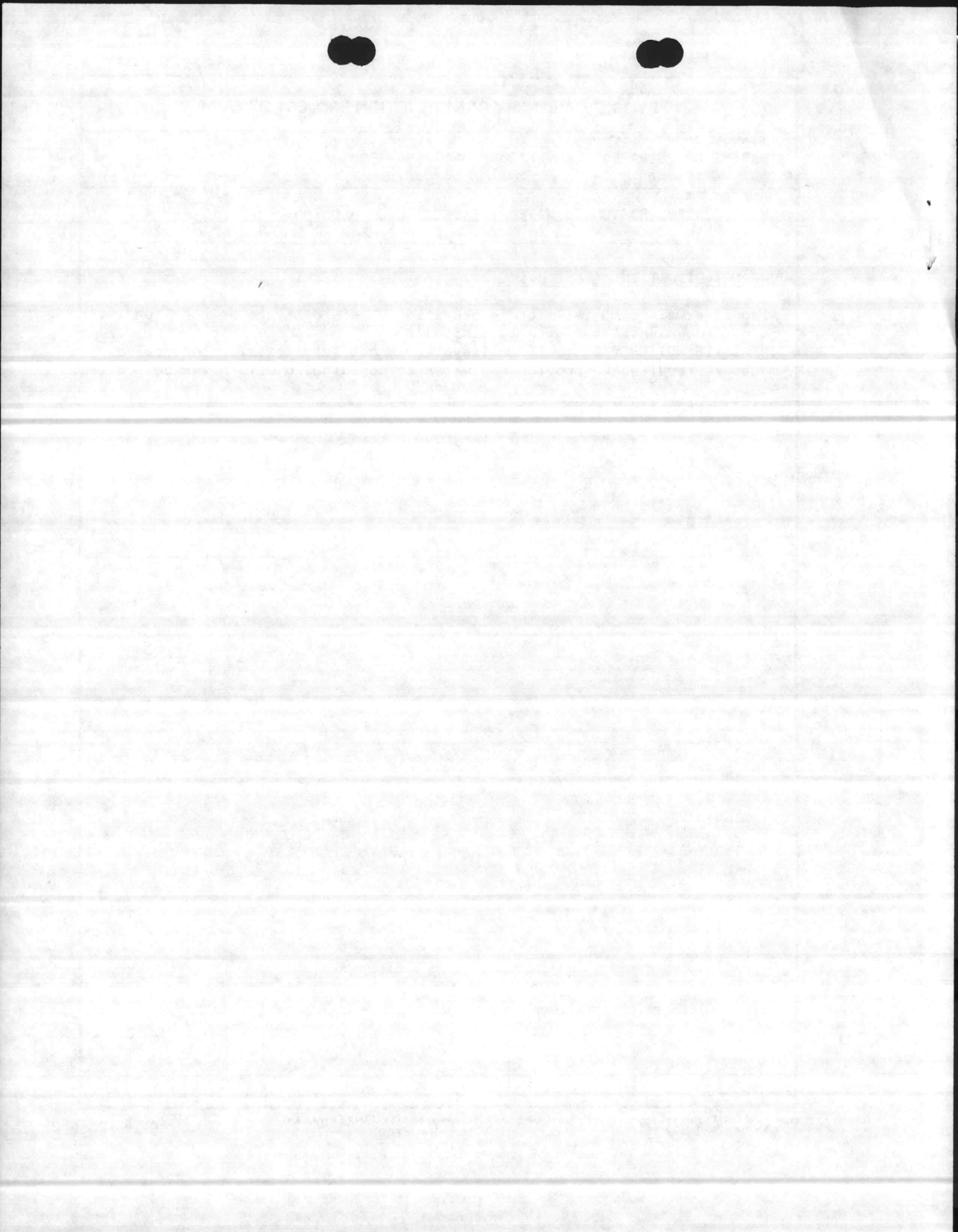
11. REQUIREMENTS:

PROJECT: Provide a microcomputer based control and telemetry system at the Hadnot Point Water Treatment Plant, Building #20.
REQUIREMENT: A radio telemetry system is required to provide a central automatic control system for the well field which provides raw water to Building 20. The system will provide the following functions: digital data acquisition, analog data acquisition, multilevel alarm processing and logging, color/graphic CRT data display, data logging, report logging, graphic printing of any real time and/or stored data digital, (on/off) control, analog control and local/remote input/output capability.
CURRENT SITUATION: Building 20 has no control over the well field except by dispatching personnel to each site to turn the well on or off.

632
661
629



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3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NC 28542-5001		
4. PROJECT TITLE WELL CONTROL SYSTEM TO WATER TREATMENT FAC, BLDG 20	5. PROJECT NUMBER LE209R	
<p><u>CURRENT SITUATION: (cont'd):</u></p> <p>Also if a well pump fails or is operating on emergency power, the condition is not known until the site is visited.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If well system is not automatically controlled, manhours required to provide raw water to Building 20 will never be reduced.</p> <p>Related Projects: None.</p>		



COST ESTIMATE

DATE PREPARED

SHEET 1 OF 2

ACTIVITY AND LOCATION
MARINE CORPS BASE
CAMP LEJEUNE, NC 28542-5001

CONSTRUCTION CONTRACT NO

IDENTIFICATION NUMBER
LE209R

ESTIMATED BY

CATEGORY CODE NUMBER
841-09

PROJECT TITLE
WELL CONTROL SYSTEM TO WATER TREATMENT FACILITY
BUILDING 20

STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify) Project

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
MICROCOMPUTER BASED, DIGITAL CONTROL TO								
INCLUDE THE FOLLOWING:	1	EA					120,000	120,000
DESK TYPE CONSOLE, CENTRAL PORCESSING								
UNIT, 512K BYTES OF RAM, COMMUNICATIONS								
INTERFACE, FLOPPY DISK (320 BYTES MIN. CAP)								
HARD DISK (WINCHESTER) 10M BYTES MIN.								
COLOR GRAPHIC CRT/KEYBOARD								
PRINTER								
HARD COPY DEVICE								
SYSTEM CLOCK/CALENDAR								
LOCAL I/O INTERFACE								
RADIO TELEMETRY SYSTEM TO INCLUDE:	15	EA					3,000	45,000
REMOTE MULTIPLEXER (REMOTE TERMINAL								
UNITS) TRANSCEIVERS, TRANSMITTER,								
RECEIVER, ANTENNAE, SELECTOR SWITCHES,								
SENSORS,								
WIRING & CABLING	1	LS					3,000	3,000

