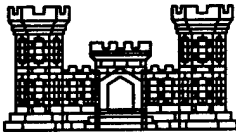


Limited Energy Study of Facilities in the Historic, Red Brick Main Post Area at Fort Bragg, North Carolina

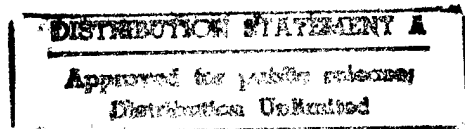
FINAL
~~Prefinal~~ Report

Field Notes

CONTRACT #DACA01-94-D-0034
SYSTEMS CORP PROJECT #94013.05
MARCH 27, 1995



Savannah District-
US Army Corps
of Engineers



SYSTEMS*corp*

SYSTEMS ENGINEERING AND MANAGEMENT CORPORATION



DEPARTMENT OF THE ARMY
CONSTRUCTION ENGINEERING RESEARCH LABORATORIES, CORPS OF ENGINEERS
P.O. BOX 9005
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REPLY TO
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17 Sep 1997

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Marie Wakefield
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SURVEY INFORMATION SUMMARY

LIMITED ENERGY STUDY OF HISTORIC RED BRICK AREA, FT. BRAGG, NC
SURVEY FORMS

The following pages include the survey forms of information gathered during the survey of the 12 Red Brick buildings for ECO-1: Install High Efficiency Lighting systems. Each form includes the specific lighting system information by building and the building's functional areas, such as corridors, latrines, offices, etc. Below is a listing of the minimal amount of information gathered for each functional area within each building.

- 1) room name or type
- 2) lighting fixture type
- 3) lamp type
- 4) number of lamps per fixture
- 5) watts per lamp
- 6) number of fixtures per room or area
- 7) ballast's amp factor
- 8) operating "on" or "off" electrical peak
- 9) light level reading in footcandles
- 10) additional comments, including unique operating hours, unique fixture layout, unique day lighting conditions affecting light levels, unique building conditions

The operating hours are stated under the facility information at the top of each page. If a particular area within a building deviates from the building's operating hours, it will be noted in the comment section of that area. Operating hours were determined from a combination of occupant interviews, survey observations by Systems Corp and Systems Corp's previous experience at army installations.

All Red Brick buildings surveyed, except for Building 1333, had lighting fixtures which were significantly aged and discolored. For this reason, Systems Corp determined that the lighting systems in these 11 buildings would require a lighting replacement project within the next ten years whether this project is funded or not. This replacement project would probably replace the lighting system with the same systems, such as T-12 lamps and electronic ballasts. Therefore, Systems Corp used 80 percent of the estimated high efficiency lighting project costs as an estimate of the price of the replacement project and included them in the non-energy, non-recurring savings. Building 1333 was renovated within the last two years, so no replacement cost savings were included in this project.

SURVEY INFORMATION SUMMARY

*LIMITED ENERGY STUDY OF HISTORIC RED BRICK AREA, FT. BRAGG, NC
SURVEY FORMS*

A majority of the areas surveyed in the 12 buildings used T-12 four-foot-lamps in various fixture style configurations. A couple of areas surveyed had slightly high footcandle readings for the particular area's function. This allowed a reduction in the number of lamps from four to three, or three to two, in each fixture. In a few areas, the number of fixtures could be slightly reduced to allow the new system to reflect the proper light levels, but this would require a significant investment of manpower and labor to rearrange the fixture layout. For this reason, only a one-for-one fixture replacement in the fluorescent lighting systems was evaluated; otherwise, the project would lose its cost effectiveness.

**LIGHTING
SYSTEM
SURVEY
FORMS**

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION: BUILDING NUMBER & TYPE: 1105 - MP ADMIN & BARRACKS HOURS OF OPERATION: 10 OF 1
 AREA DESCRIPTION: Historic, Red Brick Main Post Area BUILDING VOLTAGE: 120

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
BASEMENT OFFICE	1X8 P	F	2	60	10	1.2	ON	25-50	
BASEMENT CORRIDOR	1X4 P	F	2	34	4	0.75	ON	5-20	OPERATING HOURS - 24 HR/DY
STAIRWELL	1X4 S	F	2	34	7	0.75	ON	5-15	OPERATING HOURS - 24 HR/DY
OFFICE/SUPPLY	1X8 P	F	2	60	10	1.2	ON	15-35	
BASEMENT CORRIDOR	1X8 P	F	2	60	3	1.2	ON	5-20	
1ST FLR CORRIDOR	2X4 R	F	2	34	13	0.75	ON	12-31	OPERATING HOURS - 24 HR/DY
CLASSROOM	2X4 R	F	2	34	12	0.75	ON	15-35	
1ST FLR OFFICE	2X4 R	F	2	34	29	0.75	ON	25-40	
LATRINE	1X4 S	F	2	34	2	0.75	ON		OPERATE 7DY/WK
DINING ROOM	2X4 R	F	2	34	8	0.75	ON	25-40	OPERATE 7DY/WK
STAIRWELL	1X4 P	F	2	34	7	0.75	ON	5-15	OPERATING HOURS - 24 HR/DY
2ND & 3RD FLR CORRIDOR	2X4 R	F	2	34	18	0.75	ON	5-25	OPERATING HOURS - 24 HR/DY
2ND & 3RD FLR BARRACKS	1X4 R	F	2	34	28	0.75	ON		OPERATE 7DY/WK
LATRINE	1X4 P	F	2	34	15	0.75	ON		OPERATE 7DY/WK
LATRINE	1X4 W	F	2	34	4	0.75	ON		OPERATE 7DY/WK
EXIT SIGNS		INC	2	20	12		ON		OPERATING HOURS - 24 HR/DY

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study SURVEY DATE: 21 SEPT 94
 PROJECT NO.: 94013.05 SURVEY TEAM: JAH/MWG
 NOTES: AREAS OPERATING 10HR/DY ARE FOR 5DY/WK, UNLESS NOTED
 AREAS OPERATING 24HR/DY ARE FOR 7DY/WK

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1120 - ADMINISTRATION
 AREA DESCRIPTION: Historic, Red Brick Main Post Area

HOURS OF OPERATION: 10, 5D/MWK UNLESS
 BUILDING VOLTAGE: 120 NOTED

PAGE 1 OF 2

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
1ST FLR CORRIDOR	2X4 R	F	2	34	15	0.75	ON	5-35	
1ST FLR CORRIDOR	2X4 R	F	4	34	13	0.75	ON	15-80	
STAIRWELL	1X4 W	F	1	34	3	0.75	ON	5-15	OPERATING HOURS - 24 HR/DY
STAIRWELL	1X4 P	F	2	34	7	0.75	ON	5-15	OPERATING HOURS - 24 HR/DY
1ST FLR OFFICES	2X4 R	F	4	34	98	0.75	ON	35-60	
1ST FLR OFFICES	2X4 R	F	2	34	31	0.75	ON	35-60	
1ST FLR LATRINE	1X4 P	F	2	34	1	0.75	ON		
1ST FLR LATRINE	1X2 W	F	2	20	1		ON		
CONFERENCE RM	2X4 R	F	2	34	8	0.75	ON	45-55	GOOD FOR OCCUPANCY SENSOR
BASEMENT CORRIDOR	1X4 P	F	2	34	16	0.75	ON	28-45	
BASEMENT OFFICE	1X4 P	F	2	34	204	0.75	ON	30-50	CONTINUOUS ROWS OF FIXTURES
2ND FLR LATRINE	1X4 R	F	2	34	24	0.75	ON		OPERATING HOURS - 18 HR/DY
2ND FLR CORRIDOR	2X4 R	F	2	34	17	0.75	ON	10-30	
2ND FLR OFFICE	2X4 R	F	4	34	94	0.75	ON	60	
2ND FLR BARRACKS RMS	2X4 R	F	2	34	26	0.75	ON	15-35	OPERATING HOURS - 7 DAYS/MWK
2ND FLR LATRINE	1X4 P	F	2	34	7	0.75	ON		OPERATING HOURS - 18 HR/DY

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05
 NOTES: 24HR/DY OPERATION SEE FOR 1DY/MWK

SURVEY DATE: 22 SEPT 94
 SURVEY TEAM: JAH/MWG

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION: BUILDING NUMBER & TYPE: 1120 - ADMINISTRATION HOURS OF OPERATION: 10, 5 D/MK UNLESS NOTED
 AREA DESCRIPTION: Historic, Red Brick Main Post Area BUILDING VOLTAGE: 120

PAGE 2 OF 2

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
2ND FLR LATRINE	1X4 W	F	2	3	3	0.75	ON		OPERATING 7 DYSWK
2ND FLR DAYROOM	2X4 R	F	4	2	2	0.75	ON	15-30	OPERATING 7 DYSWK
2ND FLR DAYROOM	1X4 R	F	2	34	1	0.75	ON	15-30	OPERATING 7 DYSWK
3RD FLR CORRIDOR	2X4 R	F	2	34	3	0.75	ON	5-30	OPERATING 7 DYSWK
3RD FLR CORRIDOR	2X4 R	F	4	34	14	0.75	ON	20-40	OPERATING 7 DYSWK
3RD FLR OFFICE	2X4 R	F	4	34	88	0.75	ON	35-60	
3RD FLR BARRACKS RMS	2X4 R	F	2	34	26	0.75	ON	15-35	OPERATING 7 DYSWK
3RD FLR LATRINE	1X4 P	F	2	34	7	0.75	ON		OPERATING 7 DYSWK
3RD FLR LATRINE	1X4 W	F	2	34	3	0.75	ON		OPERATING 7 DYSWK
3RD FLR DAYROOM	2X4 R	F	4	34	2	0.75	ON	15-30	OPERATING 7 DYSWK
3RD FLR DAYROOM	1X4 R	F	2	34	1	0.75	ON	15-30	OPERATING 7 DYSWK
EXIT SIGNS		INC	2	20	16		ON		OPERATING HOURS - 24 HR/DY

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study SURVEY DATE: JAH/MWG
 PROJECT NO.: 94013.05 SURVEY TEAM: JAH/MWG
 NOTES: AREAS CAPTURING 24 HOURS APT. 7 D/MK

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1127 - ADMINISTRATION
 AREA DESCRIPTION: Historic, Red Brick Main Post Area
 HOURS OF OPERATION: 10, 5DN/WK UNLESS NOTED
 BUILDING VOLTAGE: 120
 PAGE 1 OF 1

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
1ST FLR CORRIDOR	G	INC	1	200	4		ON	5-12	
STAIRWELL	G	INC	1	200	2		ON	5-12	
2ND FLR CORRIDOR	2X4 R	F	4	34	16	0.75	ON	15-35	
2ND FLR OFFICE	2X4 R	F	4	34	102	0.75	ON	50-60	
2ND FLR OFFICE	1X4 S	F	2	34	20	0.75	ON	20-30	
2ND FLR LATRINE	2X4 R	F	4	34	8	0.75	ON	70-120	
3RD FLR CORRIDOR	2X4 R	F	4	34	18	0.75	ON	15-30	
3RD FLR OFFICE	2X4 R	F	4	34	108	0.75	ON	60-70	
3RD FLR LATRINE	2X4 R	F	4	34	4	0.75	ON		
STAIRWELL	2X4 R	F	4	34	2	0.75	ON	15-25	
2ND FLR CONFERENCE RM	2X4 F	F	4	34	7	0.75	ON	70	
1ST FLR CORRIDOR	2X4 R	F	4	34	3	0.75	ON	15-35	
STORAGE	1X8 P	F	2	60	1	1.2	ON		
EXIT SIGNS		INC	2	20	2		ON		OPERATING HOURS - 24 HR/DY

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05

SURVEY DATE: 22 SEPT 94
 SURVEY TEAM: JAH/MWG

NOTES: 1/2 OF FIRST FLOOR IS CLOSED OFF - TO BE RENOVATED (LEFT)

RIGHT 1/2 OF BLDG IS A CONTROLLED ACCESS - WE COULD NOT GAIN ACCESS.

NOTES: OPERATING 24 HR/DY ARE 7DN/WK

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE

** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

PAGE 1 OF 2
10 SDY/WK UNLESS
120 NOTED

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1133-ADMINISTRATION
AREA DESCRIPTION: Historic, Red Brick Main Post Area

HOURS OF OPERATION:
BUILDING VOLTAGE:

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
BASEMENT OFFICE	2X4 P	F	4	34	63	0.75	ON	45-60	
BASEMENT CORRIDOR	2X4 P	F	4	34	11	0.75	ON	15-60	
BASEMENT OFFICE	1X4 W	F	2	34	20	0.75	ON	45-60	
BASEMENT CORRIDOR	6"X4 W	F	2	34	2	0.75	ON	15-60	
LATRINE	2X4 P	F	4	34	2	0.75	ON		
LATRINE	1X4 W	F	2	34	2	0.75	ON		
BASEMENT CONFERENCE	2X4 P	F	4	34	4	0.75	ON	90-100	
BASEMENT CONFERENCE	6"X4 W	F	2	34	2	0.75	ON	90-100	
1ST FLR CORRIDOR	2X4 R	F	2	34	17	0.75	ON	10-20	
1ST FLR OFFICE	2X4 R	F	4	34	36	0.75	ON	37-54	
LATRINE	2X4 R	F	2	34	1	0.75	ON		
1ST FLR OFFICE	2X4 R	F	2	34	60	0.75	ON	35-50	
LATRINE	2X4 R	F	4	34	1	0.75	ON		
WAITING RM	2X4 R	F	4	34	6	0.75	ON	45	
CONFERENCE RM	2X4 R	F	2	34	6	0.75	ON	45-65	
EXIT SIGNS		INC	2	20	18		ON		OPERATING HOURS - 24 HR/DY

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study

PROJECT NO.: 94013.05

NOTES: AREAS OPERATING 24 HR/DY ARE 7DY/WK

SURVEY DATE: 22 SEPT 94

SURVEY TEAM: JAH/MWVG

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION: BUILDING NUMBER & TYPE: 1133-ADMINISTRATION
 AREA DESCRIPTION: Historic, Red Brick Main Post Area
 HOURS OF OPERATION: 10 5131/ WK UNLESS
 BUILDING VOLTAGE: 120 NOTED
 PAGE 2 OF 2

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
2ND FLR CORRIDOR	2X4 R	F	2	34	17	0.75	ON	5-30	
2ND FLR OFFICE	2X4 R	F	2	34	58	0.75	ON	45	
2ND FLR OFFICE	2X4 R	F	4	34	35	0.75	ON	65	
KITCHENETTE	2X4 R	F	2	34	2	0.75	ON	40-50	
LATRINE	2X4 R	F	2	34	3	0.75	ON	35-45	
2ND FLR FITNESS CENTER	2X4 R	F	2	34	6	0.75	ON	10-30	
2ND FLR FITNESS CENTER	2X4 R	F	4	34	2	0.75	ON	10-30	
LATRINE	2X4 R	F	4	34	1	0.75	ON		
3RD FLR CORRIDOR	2X4 R	F	2	34	12	0.75	ON	10-30	
3RD FLR OFFICE	2X4 R	F	4	34	14	0.75	ON	50-80	
3RD FLR OFFICE	2X4 R	F	2	34	45	0.75	ON	35-60	
LIBRARY	2X4 R	F	2	34	12	0.75	ON	35-45	
CONFERENCE RM	2X4 R	F	4	34	8	0.75	ON	75	
WAITING RM	2X4 R	F	2	34	8	0.75	ON	20-45	
COURT RM	2X4 R	F	4	34	15	0.75	ON	30-50	
LATRINE	2X4 R	F	2	34	6	0.75	ON		OPERATING HOURS - 24 HR/DY

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05
 SURVEY DATE: 22 SEPT 94
 SURVEY TEAM: JAH/MWG
 NOTES: AREAS OPERATING 24 HR/DY ARE 7D/1WK

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION: 1138-ADMIN & BARRACKS
 BUILDING NUMBER & TYPE: 10, 5D/MK UNLESS
 AREA DESCRIPTION: Historic, Red Brick Main Post Area
 HOURS OF OPERATION: 120, 5D/MK UNLESS
 BUILDING VOLTAGE: 120, 5D/MK UNLESS
 PAGE 1 OF 2

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
BASEMENT OFFICE	1X4 P	F	2	34	2	0.75	ON	25-40	
BASEMENT OFFICE	1X8 P	F	2	60	18		ON	5-25	
STAIRWELL	1X4 P	F	2	34	14	0.75	ON	5-20	
EXIT SIGNS		INC	2	20	24		ON		OPERATING HOURS - 24 HR/DY
BASEMENT OFFICE	2X4 R	F	4	34	6	0.75	ON	20-60	
1ST FLR CORRIDOR	2X4 R	F	2	34	31	0.75	ON	10-25	OPERATING HOURS - 7 DYSWK
1ST FLR OFFICE	2X4 R	F	3	34	58	0.75	ON	50-60	
1ST FLR OFFICE	1X4 R	F	2	34	16	0.75	ON	10-25	
1ST FLR CONFERENCE RM	1X4 R	F	2	34	4	0.75	ON		
1ST FLR BARRACKS RMS	1X4 R	F	2	34	3	0.75	ON	15	OPERATING HOURS - 7 DYSWK
1ST FLR DAYROOM	2X4 R	F	2	34	6	0.75	ON	10-15	OPERATING HOURS - 7 DYSWK
1ST FLR LATRINE	1X4 P	F	2	34	5	0.75	ON		OPERATING HOURS - 7 DYSWK
1ST FLR LATRINE	1X4 W	F	2	34	3	0.75	ON		OPERATING HOURS - 7 DYSWK
1ST FLR DINING RM	2X4 R	F	2	34	15	0.75	ON	35	OPERATING HOURS - 7 DYSWK
1ST FLR KITCHEN	2X4 R	F	2	34	30	0.75	ON	30-60	OPERATING HOURS - 7 DYSWK
1ST FLR KITCHEN	1X4 S	F	2	34	8	0.75	ON	30-60	OPERATING HOURS - 7 DYSWK

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05
 SURVEY DATE: 22 SEPT 94
 SURVEY TEAM: JAH/MWG
 NOTES: ARENS OPERATING 24 HR/DY ARE 1D/MK

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1138-ADMIN & BARRACKS
 AREA DESCRIPTION: Historic, Red Brick Main Post Area

HOURS OF OPERATION:
 BUILDING VOLTAGE:

PAGE 2 OF 2
 10, 5 DY/WK UNLESS NOTED
 120

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT IN EXHAUST HOODS
KITCHEN	G	INC	1	75	8		ON		
2ND FLR CORRIDOR	2X4 R	F	2	34	32	0.75	ON	5-25	
2ND FLR OFFICE	2X4 R	F	2	34	17	0.75	ON	35-55	
2ND FLR LOUNGE	2X4 R	F	2	34	12	0.75	ON	35	
2ND FLR OFFICE	1X4 R	F	2	34	29	0.75	ON	20	
3RD FLR DORM RM	1X4 R	F	2	34	43	0.75	ON	15-30	OPERATING HOURS - 7 DYSWK
3RD FLR DAYROOM	2X4 R	F	2	34	8	0.75	ON	15-20	OPERATING HOURS - 7 DYSWK
3RD FLR LATRINE	1X4 W	F	2	34	9	0.75	ON		OPERATING HOURS - 7 DYSWK
3RD FLR LATRINE	1X4 P	F	2	34	21	0.75	ON		OPERATING HOURS - 7 DYSWK
LAUNDRY	1X4 P	F	2	34	1	0.75	ON		OPERATING HOURS - 7 DYSWK
2ND FLR CONFERENCE	1X4 R	F	2	34	2	0.75	ON	5-15	
COPY ROOM	2X4 R	F	2	34	4	0.75	ON	40	
2ND FLR BARRACKS RM	2X4 R	F	2	34	37	0.75	ON		OPERATING HOURS - 7 DYSWK

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study

PROJECT NO.: 94013.05

SURVEY DATE: 22 SEPT 94

SURVEY TEAM: JAH/MWG

NOTES: ARENS OPERATING 24 HRS/DY ARE. 7DY/WK

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1242 - MP ADMIN & BARRACKS
 AREA DESCRIPTION: Historic, Red Brick Main Post Area
 HOURS OF OPERATION: 10, 5DY/WK UNLESS,
 BUILDING VOLTAGE: 120 NOTED

PAGE 1 OF 1

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
1ST FLR CORRIDOR	2X4 R	F	2	34	9	0.75	ON	5-25	
1ST FLR DAYROOM	2X4 R	F	2	34	10	0.75	ON	15-30	OPERATING HOURS - 14 HR/DY
1ST FLR DAYROOM	2X2 R	F	2	34	4	0.75	ON	15-30	OPERATING HOURS - 14 HR/DY
OLD KITCHEN AREA	1X4 R	F	2	34	3	0.75	ON	15-35	
OLD KITCHEN AREA	1X4 S	F	2	34	4	0.75	ON	15-35	
1ST FLR OFFICE	2X4 R	F	2	34	12	0.75	ON	35-45	
BASEMENT ARMS ROOM	1X4 P	F	2	34	12	0.75	ON		
BASEMENT CORRIDOR	1X8 P	F	2	60	3	1.2	ON	5-15	OPERATING HOURS - 24 HR/DY
BASEMENT STORAGE	1X8 P	F	2	60	8	1.2	ON		
2ND & 3RD FLR CORRIDOR	2X4 R	F	2	34	22	0.75	ON	5-25	OPERATING HOURS - 24 HR/DY
2ND & 3RD FLR BARRACKS	1X4 R	F	2	34	48	0.75	ON		OPERATING 7DY/WK
LOUNGE	2X4 R	F	2	34	8	0.75	ON		OPERATING 7DY/WK
LATRINE	1X4 P	F	2	34	10	0.75	ON		OPERATING 7DY/WK
STAIRWELL	1X4 P	F	2	34	7	0.75	ON	5-15	OPERATING 7DY/WK
EXIT SIGNS		INC	2	20	5		ON		OPERATING HOURS - 24 HR/DY
LATRINE	1X4 W	F	2	34	6	0.75	ON		OPERATING 7DY/WK

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05
 SURVEY DATE: 22 SEPT 94
 SURVEY TEAM: JAH/MWVG
 NOTES: AREAS OPERATING 24HR/DY AND 14HR/DY ARE 7DY/WK

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

PAGE 1 OF 1
10 SDY/ML UNLESS
120 NOTED

BUILDING NUMBER & TYPE: 1326 - POST HEADQUARTERS
AREA DESCRIPTION: Historic, Red Brick Main Post Area

HOURS OF OPERATION:
BUILDING VOLTAGE:

[illegible]

PROJECT NAME: Fort Bragg - Limited Energy Study

SURVEY DATE: 23 SEPT 94
SURVEY TEAM: JAH/MWG
ACCESS. ONLY THE BASEMENT WAS SURVEYED.

*** R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
*** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1333 - ADMINISTRATION
 AREA DESCRIPTION: Historic, Red Brick Main Post Area
 HOURS OF OPERATION: 10:50 DY/WK UNLESS NOTED
 BUILDING VOLTAGE: 120
 PAGE 1 OF 2

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
BASEMENT CORRIDOR	1X8 P	F	2	60	6	1.2	ON	30-70	
BASEMENT BREAKROOM	2X4 R	F	4	34	3	0.75	ON	40	
BASEMENT OFFICE	1X8 P	F	2	60	12	1.2	ON	34-55	
BASEMENT OFFICE	2X2 P	F	2	34	9	0.75	ON	34-55	U-TUBE LAMPS
FILE ROOM & OFFICE	1X8 P	F	2	60	5	1.2	ON	35-40	
MAIL ROOM	1X8 P	F	2	60	1	1.2	ON	35-45	
CONFERENCE ROOM	1X8 P	F	2	60	2	1.2	ON	28-33	
1ST FLR CORRIDOR	2X4 R	F	4	40	6	0.8	ON	10-50	
1ST FLR OFFICE	2X4 R	F	4	40	34	0.8	ON	85-150	Accounting Office
1ST FLR CORRIDOR	2X4 R	F	2	40	3	0.8	ON	15-60	Recently Renovated
1ST FLR CONFERENCE RM	2X4 R	F	4	40	6	0.8	ON	95	Recently Renovated
LATRINE	1X2 W	F	2	20	2	0.42	ON		
1ST FLR COPY ROOM	2X4 R	F	4	40	2	0.8	ON	75-120	Recently Renovated
2ND FLOOR OFFICES	2X4 R	F	4	40	4	0.8	ON	100	Recently Renovated
2ND FLR CORRIDOR	2X4 R	F	2	40	5	0.8	ON	10-50	Recently Renovated
2ND FLR COPY ROOM	2X4 R	F	4	40	1	0.8	ON	75-110	Recently Renovated

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05
 NOTES: 1ST AND 2ND FLOOR OFFICES RENOVATED 2 WEEKS AGO. CORRIDORS RENOVATED 2 YEARS AGO
 BASEMENT NOT RENOVATED.

SURVEY DATE: 22 SEPT 94
 SURVEY TEAM: JAH/MWVG

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

PAGE 2 OF 2
10, SIDY/WIK UNLES
20 NOTED

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1333 - ADMINISTRATION
AREA DESCRIPTION: Historic, Red Brick Main Post Area

HOURS OF OPERATION:
BUILDING VOLTAGE:

10, SIDY/WIK UNLESS,
20 NOTED

EXISTING LIGHTING INFORMATION:

[illegible]

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study

PROJECT NO.: 94013.05

SURVEY DATE: 22 SEPT 94

SURVEY TEAM: JAH/MWG

1ST AND 2 ND FLOOR OFFICES RENOVATED 2 WEEKS AGO. CORRIDORS RENOVATED 2 YEARS AGO

BASEMENT NOT RENOVATED.

* R = RECESSED S=SURFACE P=PENDANT. ST= SHOP TYPE. W=WALL MOUNTED & G=GLOBE

*** F=FLUORESCENT INC=INCANDESCENT. MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

EXISTING LIGHTING INFORMATION:

[illegible]

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study

PROJECT NO.: 94013.05

NOTES:

SURVEY DATE: 22 SEPT 94

SURVEY TEAM: JAH/MWG

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1549 HIGH BAY GUN SHOP
 AREA DESCRIPTION: Historic, Red Brick Main Post Area
 HOURS OF OPERATION: 10, 5D/11K UNLESS
 BUILDING VOLTAGE: 120 NOTED
 PAGE 1 OF 1

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
OPEN SHOP BAY	G	MV	1	1000	32		ON	80-100	W/ DAYLIGHTING
OPEN SHOP BAY	1X8 P	F	2	60	116	1.2	ON	40-100	W/ DAYLIGHTING
OFFICE	2X4 R	F	4	34	21	0.75	ON	35-65	
LATRINE	2X4 R	F	4	34	1	0.75	ON		
SHOP	1X8 P	F	2	60	18	1.2	ON	25-55	
AMMUNITION ROOM	1X8 P	F	2	60	4	1.2	ON	55-75	
LATRINE	1X8 P	F	2	60	2	1.2	ON		
LASER TEST ROOM	1X4 R	F	2	34	8	0.75	ON	33-47	
OFFICE	2X4 R	F	2	34	4	0.75	ON	25-45	
LAB ROOM	1X4 S	F	2	34	6	0.75	ON	50-70	
LAB ROOM	2X4 S	F	4	34	12	0.75	ON	50-70	
BREAKROOM	2X4 R	F	2	34	6	0.75	ON	18-25	
BREAKROOM	2X4 R	F	4	34	4	0.75	ON	18-25	
SUPPLY ROOM		INC	1	60	2		ON		
SUPPLY ROOM	2X4 P	F	4	34	9	0.75	ON	15-30	
HOLDING AREA	1X8 P	F	2	60	4	1.2	ON	50-75	

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05
 NOTES:

SURVEY DATE: JAH/MWG
 SURVEY TEAM:

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1728 ADMINISTRATION
 AREA DESCRIPTION: Historic, Red Brick Main Post Area

HOURS OF OPERATION: 12, 5:30/12:00 UNLESS NOTED
 BUILDING VOLTAGE: 120

PAGE 1 OF 2

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
CLASSROOMS	1X8 P	F	2	60	62	1.2	ON	30-55	
1ST FLR OFFICE	2X4 R	F	4	34	46	0.75	ON	50	
1ST FLR OFFICE	1X8 P	F	2	60	8	1.2	ON	50	
1ST FLR CORRIDOR	1X8 P	F	2	60	2	1.2	ON	5-20	
1ST FLR COPY ROOM	2X4 R	F	2	34	2	0.75	ON		SEPARATE SWITCH
1ST FLR CORRIDOR	2X4 R	F	4	34	7	0.75	ON	5-20	
1ST FLR MULTIPURPOSE	1X8 P	F	2	60	2	1.2	ON	15-25	
1SR FLR EXERCISE RM	2X4 R	F	4	34	9	0.75	ON		
CONFERENCE ROOM	2X4 R	F	4	34	12	0.75	ON	60-75	SEPARATE SWITCH
CONFERENCE ROOM	2X4 R	F	4	34	12	0.75	ON	60-75	SEPARATE SWITCH
2ND FLR CORRIDOR	1X8 P	F	2	60	1	1.2	ON	5-15	
LATRINE	1X8P	F	2	60	1	1.2	ON		
2ND FLR LOUNGE	1X8 P	F	2	60	2	1.2	ON	30	
2ND FLR OFFICE	1X8 P	F	2	60	29	1.2	ON	25-40	
2ND FLR CORRIDOR	1X4 P	F	2	34	8	0.75	ON	5-25	
2ND FLR OFFICE	2X4 R	F	4	34	4	0.75	ON	45	

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05

SURVEY DATE: 22 SEPT 94
 SURVEY TEAM: JAH/MWG

NOTES:

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

PAGE 2 OF 2
12, 5DY/WLK UNLESS
20 NOTED

FACILITY INFORMATION:

BUILDING NUMBER & TYPE:	1728 ADMINISTRATION
AREA DESCRIPTION:	Historic, Red Brick Main Post Area

HOURS OF OPERATION:
BUILDING VOLTAGE:

EXISTING LIGHTING INFORMATION:

[illegible]

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study

PROJECT NO.: 94013.05

NOTES: MINIMAL INDIVIDUAL SWITCHING IN OFFICES

SURVEY DATE: 22 SEPT 94

SURVEY TEAM: JAH/MWG

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

INTERIOR LIGHTING SURVEY FORM

FACILITY INFORMATION:

BUILDING NUMBER & TYPE: 1731 - ADMIN & MP BARRACKS
 AREA DESCRIPTION: Historic, Red Brick Main Post Area
 HOURS OF OPERATION: 10, 5 DY Wk UNLESS
 BUILDING VOLTAGE: 120 NOTED
 PAGE 1 OF 1

EXISTING LIGHTING INFORMATION:

ROOM NAME/TYPE	FIXTURE TYPE (*)	LAMP TYPE (**)	LAMPS/ FIXTURE	WATTS/ LAMP	NO. OF FIXTURES	BALLAST AMP/MULT.	ON/OFF PEAK	LIGHTING LEVEL (fc)	COMMENTS: OPERATING HOURS, DAYLIGHT
1ST FLR OFFICE	2X4 R	F	3	34	61	0.75	ON	35-50	
1ST FLR CORRIDOR	2X4 R	F	2	34	24	0.75	ON	5-20	
1ST FLR DAYROOM	2X4 R	F	2	34	18	0.75	ON	15-35	OPERATING HOURS - 7 DY/WK
STAIRWELL	1X4 P	F	2	34	21	0.75	ON	5-15	OPERATING HOURS - 24 HR/DY
1ST FLR ARMSROOM	1X4 P	F	2	34	2	0.75	ON		
OFFICES	2X4 R	F	2	34	58	0.75	ON	30-55	
1ST FLR STORAGE	2X4 R	F	2	34	8	0.75	ON		
2ND FLR CORRIDOR	2X4 R	F	2	34	22	0.75	ON	5-20	OPERATING HOURS - 24 HR/DY
LATRINES	1X4 P	F	2	34	12	0.75	ON		OPERATING HOURS - 7 DY/WK
LOUNGES	2X4 R	F	2	34	16	0.75	ON	20-40	OPERATING HOURS - 7 DY/WK
2ND FLR BARRACKS	1X4 R	F	2	34	96	0.75	ON		OPERATING HOURS - 7 DY/WK
LATRINE	1X4 W	F	2	34	12	0.75	ON		OPERATING HOURS - 7 DY/WK
BASEMENT CORRIDOR	1X8 P	F	2	60	20	1.2	ON	5-20	
BASEMENT OFFICE	2X4 R	F	4	34	24	0.75	ON	25-55	
EXIT SIGNS		INC	2	20	6		ON		OPERATING HOURS - 24 HR/DY
3RD FLR CORRIDOR	2X4 R	F	2	34	22	0.75	ON	5-20	OPERATING HOURS - 24 HR/DY

GENERAL INFORMATION:

PROJECT NAME: Fort Bragg - Limited Energy Study
 PROJECT NO.: 94013.05
 SURVEY DATE: 22 SEPT 94
 SURVEY TEAM: JAH/MWG
 NOTES: AREAS OPERATING 24HR/DY ARE 7 DY/WK

* R = RECESSED, S=SURFACE, P=PENDANT, ST= SHOP TYPE, W=WALL MOUNTED & G=GLOBE
 ** F=FLUORESCENT, INC=INCANDESCENT, MV=MERCURY VAPOR, MH=METAL HALIDE & HPS=HIGH PRESSURE SODIUM

**BUILDING
ENVELOPE
SURVEY
FORMS**

Building Envelope Survey Information:

Building Number: 1-1242 Building Section: ALL

Roof	
Type of orientation	
Construction type	PITCHED SHINGLE
Insulation type/thick	NONE
Ceiling type	LAY-IN

Notes: _____

Wall	
Construction type	BRICK - BLOCK
Insulation type/thick	NONE
Interior finish	PAINT ON BLOCK

Notes: DOUBLE PANE WINDOWS 36" x 36" - NO SHADIES

Floor	
Construction type	BASEMENT - SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	NONE
Below grade depth	4'

Notes: _____

Building Envelope Survey Information:

Building Number: 1-1326 Building Section: All

Roof	
Type of orientation	<u>—</u>
Construction type	<u>PITCHED SHINGLE</u>
Insulation type/thick	<u>R-11 3" THICK IN ATTIC</u>
Ceiling type	<u>LAY-IN</u>

Notes: _____

Wall	
Construction type	<u>BRICK, BLOCK</u>
Insulation type/thick	<u>NONE</u>
Interior finish	<u>SHEETROCK</u>

Notes: INSULATING WINDOWS 50" W X 52" H

ALL WINDOWS HAVE BURDS

Floor	
Construction type	<u>SLAB ON GRADE</u>
Insulation type/thick	<u>NONE</u>
Interior finish	<u>CARPET</u>
Below grade depth	<u>5'</u>

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Building Envelope Survey Information:

Building Number: 1-1333 Building Section: ALL

Roof	
Type of orientation	—
Construction type	CONCRETE WITH WOOD FRAME, SHINGLES, SLOPED
Insulation type/thick	4" LOOSE FILL MINERAL
Ceiling type	LAY-IN ON 1ST AND 2ND FLOOR

Notes: _____

Wall	
Construction type	4" FACE BRICK, AIR GAP, 8" CMC BLOCK
Insulation type/thick	NONE
Interior finish	GYP. BOARD

Notes: INSULATING WINDOWS 42" X 42"

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	NONE
Below grade depth	4'

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Building Envelope Survey Information:

Building Number: 1-1434 Building Section: All

Roof	
Type of orientation	FLAT
Construction type	METAL FRAME, BUILT-UP ROOF
Insulation type/thick	R-11
Ceiling type	ACOUSTIC TILE 8' LAY-IN TYPE

Notes: _____

Wall	
Construction type	BRICK AND 8" BLOCK
Insulation type/thick	NONE
Interior finish	PAINT

Notes: ALL WINDOWS BRICKED OVER

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	ASBESTOS TILE
Below grade depth	1'

Notes: _____

Building Envelope Survey Information:

Building Number: 2-1105 Building Section: ALL

Roof	
Type of orientation	<u>SLOPED</u>
Construction type	<u>SLATE SHINGLES, WOOD FRAME, CONCRETE DECK</u>
Insulation type/thick	<u>NONE</u>
Ceiling type	<u>LAY-IN</u>

Notes: _____

Wall	
Construction type	<u>BLOCK & BRICK</u>
Insulation type/thick	<u>NONE</u>
Interior finish	<u>PAINT</u>

Notes: INSULATING WINDOWS 42" x 48"

Floor	
Construction type	<u>SLAB ON GRADE</u>
Insulation type/thick	<u>NONE</u>
Interior finish	<u>ASBESTOS TILE</u>
Below grade depth	<u>4'</u>

Notes: _____

Building Envelope Survey Information:

Building Number: 2-1120 Building Section: ALL

Roof	
Type of orientation	PITCHED
Construction type	SHINGLES ON WOOD FRAME W/ CONCRETE DECKING
Insulation type/thick	NONE
Ceiling type	LAY-IN

Notes: _____

Wall	
Construction type	BRICK & BLOCK
Insulation type/thick	NONE
Interior finish	PAINT

Notes: INSULATING WINDOWS 42" x 48"

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	ASBESTOS TILE
Below grade depth	5'

Notes: _____

Building Envelope Survey Information:

Building Number: 2-1127 Building Section: All

Roof	
Type of orientation	PITCHED
Construction type	SHINGLES ON WOOD FRAME W/ CONCRETE FLEECE
Insulation type/thick	NONE
Ceiling type	LAY-IN

Notes: _____

Wall	
Construction type	BRICK AND BLOCK
Insulation type/thick	NONE
Interior finish	GYP. BOARD

Notes: INSULATING WINDOWS 36" x 42"

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	TILE
Below grade depth	4"

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Building Envelope Survey Information:

Building Number: 2-1133 Building Section: All

Roof	
Type of orientation	PITCHED
Construction type	SHINGLES ON WOOD FRAME CONCRETE DECK
Insulation type/thick	NONE
Ceiling type	LAY-IN

Notes:

Wall	
Construction type	BRICK & BLOCK
Insulation type/thick	NONE
Interior finish	PAIN, GYP BOARD

Notes:

INSULATING WINDOWS 42" x 42"

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	NONE
Below grade depth	5'

Notes:

Building Envelope Survey Information:

Building Number: 2-1138 Building Section: ALL

Roof	
Type of orientation	PITCHED
Construction type	CONCRETE DECK, WOOD FRAME, SHINGLES
Insulation type/thick	NONE
Ceiling type	LAY-IN

Notes: _____

Wall	
Construction type	BRICK & BLOCK
Insulation type/thick	NONE
Interior finish	PAINT, GYP. BD.

Notes: INSULATING WINDOWS 42" x 98"

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	NONE
Below grade depth	4'

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Building Envelope Survey Information:

Building Number: 2-1549 Building Section: All

Roof	
Type of orientation	FLAT WITH CLORESTORY SECTION RUNNING DOWN MIDDLE
Construction type	BUILT UP ROOF ON METAL FRAME
Insulation type/thick	1" RIGID BOARD
Ceiling type	NONE

Notes: _____

Wall	
Construction type	BRICK & BLOCK
Insulation type/thick	NONE
Interior finish	PAINT

Notes: SINGLE PANE WINDOWS 10' HIGH ALL AROUND

TOP 5' PAINTED OVER

CLORESTORY 6'6" HIGH ALL AROUND

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	NONE
Below grade depth	0'

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Building Envelope Survey Information:

Building Number: 2-1728

Building Section: ALL

Roof	
Type of orientation	PITCHED
Construction type	WOOD FRAME ON CONCRETE SLAB
Insulation type/thick	NONE
Ceiling type	LAY-IN

Notes:

Wall	
Construction type	4" BRICK AND 8" BLOCK
Insulation type/thick	NONE
Interior finish	GYP. BOARD, PAINT

Notes:

INSULATING WINDOWS 48" H x 30" W
GOOD WEATHER STRIPPING AND CAULKING
1/4" CRACK ALL AROUND EXTERIOR ENTRANCES

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	NONE
Below grade depth	4'

Notes:

Building Envelope Survey Information:

Building Number: 2-1731 Building Section: 4U

Roof	
Type of orientation	PITCHED
Construction type	WOOD FRAME , CONCRETE DECK , SHINGLES
Insulation type/thick	NONE
Ceiling type	LAY-IN

Notes: _____

Wall	
Construction type	4" BRICK & 8" BLOCK
Insulation type/thick	NONE
Interior finish	PAINT

Notes: INSULATING WINDOWS 48" H x 30" W

Floor	
Construction type	SLAB ON GRADE
Insulation type/thick	NONE
Interior finish	NONE
Below grade depth	4'

Notes: _____

**WATER
SYSTEM
SURVEY
FORMS**

Water System Survey Information:

Building Number: 1-1242

Building Section: ALL

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	KOHLER	2	10	Y	15
Third floor	KOHLER	2	10	Y	15

Notes: KITCHEN DISHWASHING AREA (ABANDONED)
KITCHEN HAS (2) BATHROOMS (ABANDONED)
CAN WASH AREA IN REAR OF BLDG

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	KOHLER	3	3	WALL	15
Third floor	KOHLER	3	3	WALL	15

Notes: (1) UTILITY SINK ON 2ND / 3RD FLOORS

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	ROYAL FLUSH VLVS	2-3	9	FLOOR	15
Third floor	ROYAL FLUSH VLVS	2-3	9	FLOOR	15

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	4.5	7	—	15
Third floor	—	4.5	7	—	15

Notes: ONE SHOWER IS MISSING SHOWER HEAD

Water System Survey Information:

Building Number: 1-1326 Building Section: ALL

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	AMERICAN STD	3	2	Y/N	20
First floor	ELJER	3	4	Y	15
Second floor	ELJER / DELTA	2-3	5	Y/N	15
Third floor	AMERICAN STD	2-3	4	Y/N	20

Notes:

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	AMERICAN STD	2	1	WALL	20
First floor	KOHLER	1	2	WALL	5
Second floor	KOHLER	1-2	1	WALL	20
Third floor	AMERICAN STD	1	2	WALL	15

Notes:

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	AMERICAN STD	3	2	FLOOR	6
First floor	KOHLER	3	6	FLOOR	15
Second floor	KOHLER	3	4	FLOOR	15
Third floor	AM STD / KOHLER	3	3	FLUSH TANK	15

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	JANADYNE	3-5	5	—	5
Second floor	ELJER	3	4	—	10
Third floor	—	5+	2	—	4

Notes:

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Water System Survey Information:

Building Number: 1-1333

Building Section: ALL

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	RVB 24	3-4	2	NO	12
Second floor	RVB 24	3-4	2	NO	12
Third floor	—	—	—	—	—

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN ROYAL F.V.	1	2	WALL	12
Second floor	SLOAN ROYAL F.V.	1	2	WALL	12
Third floor	—	—	—	—	—

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	2	2	FLOOR	12
Second floor	AMERICAN STD	2	2	FLOOR	12
Third floor	—	—	—	—	—

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Water System Survey Information:

Building Number: 1-1434

Building Section: ALL

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	2	3	Y	15
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	1	1	WALL	15
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	2	6	FLOOR	12
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.07

Water System Survey Information:

Building Number: 2-1105

Building Section: 1

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	KOHLER	2.5	7	Y	20
Third floor	KOHLER	2.5	7	Y	20

Notes:

(2) UTILITY SINKS 2ND FLOOR

(2) UTILITY SINKS 3RD FLOOR

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	SLOAN	1.5	3	WALL	20
Third floor	SLOAN	1.5	3	WALL	20

Notes:

APPROX 100 PEOPLE USE LATRINES DAILY

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	SLOAN	3.5	9	FLOOR	20
Third floor	SLOAN	3.5	9	FLOOR	20

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	NIEDECKEN	2.4	5	—	20
Third floor	NIEDECKEN	2.4	5	—	20

Notes:

(3) DOMESTIC CLOTHES WASHERS 2ND FLOOR

(3) DOMESTIC CLOTHES WASHERS 3RD FLOOR

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Water System Survey Information:

Building Number: 2-1105

Building Section: 2

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2.5	4	Y	20
Second floor	KOHLER	2.5	11	Y	20
Third floor	KOHLER	2.5	1	Y	20

Notes: (1) UTILITY SINK 1ST FLOOR DISH WASHING AREA
(2) UTILITY SINKS 2ND FLOOR IN KITCHEN 1ST FL
(2) UTILITY SINKS 3RD FLOOR CAN WASH AREA

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	1.5	1	WALL	30
Second floor	SLOAN	1.5	3	WALL	20
Third floor	SLOAN	1.5	3	WALL	20

Notes: APPROX 157 PEOPLE USE LATRINES DAILY

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	3.5	2	FLOOR	30
Second floor	SLOAN	3.5	9	FLOOR	20
Third floor	SLOAN	3.5	9	FLOOR	20

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	NIEDECKEN	2.4	4	—	20
Second floor	NIEDECKEN	2.4	5	—	20
Third floor	NIEDECKEN	2.4	5	—	20

Notes: (2) DOMESTIC CLOTHES WASHERS 2ND FLOOR
(3) DOMESTIC CLOTHES WASHERS 3RD FLOOR

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.0.;

Water System Survey Information:

Building Number: 2-1105

Building Section: _____

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2.5	6	Y	20
Second floor	KOHLER	2.5	1	Y	20
Third floor	KOHLER	2.5	1	Y	20

Notes: (1) UTILITY SINK 1ST FLOOR
(2) UTILITY SINKS 2ND FLOOR
(2) UTILITY SINKS 3RD FLOOR

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	1.5	3	WALL	30
Second floor	SLOAN	1.5	3	WALL	20
Third floor	SLOAN	1.5	3	WALL	20

Notes: APPROX 157 PEOPLE USE LATRINES DAILY

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	3.5	4	FLOOR	30
Second floor	SLOAN	3.5	9	FLOOR	20
Third floor	SLOAN	3.5	9	FLOOR	20

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	NIEDECKEN	2.4	4	—	20
Second floor	NIEDECKEN	2.4	5	—	20
Third floor	NIEDECKEN	2.4	5	—	20

Notes: (3) DOMESTIC CLOTHES WASHERS 2ND FLOOR
(3) DOMESTIC CLOTHES WASHERS 3RD FLOOR

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.07

Water System Survey Information:

Building Number: 2-1105

Building Section: 4

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2.5	6	Y	20
Second floor	KOHLER	2.5	7	Y	20
Third floor	KOHLER	2.5	7	Y	20

Notes:

(1) UTILITY SINK 1ST FLOOR
(2) UTILITY SINKS 2ND FLOOR
(2) UTILITY SINKS 3RD FLOOR

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	1.5	3	WALL	20
Second floor	SLOAN	1.5	3	WALL	20
Third floor	SLOAN	1.5	3	WALL	20

Notes:

APPROX 157 PEOPLE USE LATRINES DAILY

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	3.5	4	FLOOR	20
Second floor	SLOAN	3.5	9	FLOOR	20
Third floor	SLOAN	3.5	9	FLOOR	20

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	NIEDECKEN	2.4	4	—	20
Second floor	NIEDECKEN	2.4	5	—	20
Third floor	NIEDECKEN	2.4	5	—	20

Notes:

(3) DOMESTIC CLOTHES WASHERS 2ND FLOOR
(3) DOMESTIC CLOTHES WASHERS 3RD FLOOR

Water System Survey Information:

Building Number: 2-1120

Building Section: 1

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2	5	Y	20
Second floor	ELIER	2	5	Y	20
Third floor	KOHLER	2	6	Y	20

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	1	1	WALL	20
Second floor	ELIER	1	2	WALL	20
Third floor	KOHLER	1	1	WALL	20

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	3	2	FLOOR VALVE	20
Second floor	AMERICAN STD	3	4	FLOOR VALVE	20
Third floor	AMERICAN STD	3	4	FLOOR VALVE	20

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	PRYDE	2.5	2	—	10
Third floor	PRYDE	2.5	2	—	10

Notes: _____

Water System Survey Information:

Building Number: 2-1120

Building Section: 2

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2	2	Y	50
Second floor	KOHLER	2	3	Y	50
Third floor	KOHLER	2	3	Y	25

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	1	1	WALL	50
Second floor	KOHLER	1	1	WALL	50
Third floor	KOHLER	1	1	WALL	25

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	3	2	FLOOR VALVE	50
Second floor	AMERICAN STD	3	2	FLOOR VALVE	50
Third floor	AMERICAN STD	2	2	FLOOR VALVE	25

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Water System Survey Information:

Building Number: 2-1120

Building Section: 3

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	1	—	—
First floor	KOHLER	2.5	2	Y	18
Second floor	KOHLER	2.5	9	Y	20
Third floor	KOHLER	2.5	9	Y	20

Notes:

(1) UTILITY SINK 1ST FLOOR
(1) UTILITY SINK 2ND FLOOR
(1) UTILITY SINK 3RD FLOOR

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	—	1	WALL	20
Second floor	KOHLER	1	5	WALL	18
Third floor	KOHLER	1	5	WALL	18

Notes:

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	1	FLOOR	—
First floor	AMERICAN STD	3	2	FLOOR	20
Second floor	AMERICAN STD	3	6	FLOOR	18
Third floor	AMERICAN STD	3	6	FLOOR	18

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	2	LOW FLOW	20
Second floor	—	2.5	7	LOW FLOW	18
Third floor	—	2.5	7	LOW FLOW	18

Notes:

(1) WASHING MACHINE 2ND FLOOR
(1) WASHING MACHINE 3RD FLOOR

Water System Survey Information:

Building Number: 2-1127

Building Section: ALL

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2.5	7	Y	15
Second floor	KOHLER	2.5	14	Y	15
Third floor	KOHLER	2.5	5	Y	15

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	1.5	2	WALL	15
Second floor	SLOAN	1.5	4	WALL	15
Third floor	SLOAN	1.5	3		15

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	3	5	FLOOR VALVE	15
Second floor	AMERICAN STD	3	12	FLOOR VALVE	15
Third floor	AMERICAN STD	3	8	FLOOR VALVE	15

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Water System Survey Information:

Building Number: 2-1133

Building Section: ALL

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	AMERICAN STD	2.5	5	Y	20
First floor	AMERICAN STD	2.5	7	Y	20
Second floor	AMERICAN STD	2.5	7	Y	20
Third floor	AMERICAN STD	2.5	7	Y	20

Notes:

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	AMERICAN STD	1	2	WALL	20
First floor	AMERICAN STD	1	1	WALL	20
Second floor	AMERICAN STD	1	1	WALL	20
Third floor	AMERICAN STD	1	1	WALL	20

Notes:

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	AMERICAN STD	2-3	4	FLOOR VALVE	20
First floor	AMERICAN STD	2-3	7	FLOOR	20
Second floor	AMERICAN STD	2-3	7	FLOOR	20
Third floor	AMERICAN STD	2-3	7	FLOOR	20

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	ELJER	4.5	2	—	10
First floor	—	—	—	—	—
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes:

Water System Survey Information:

Building Number: 2-1138

Building Section: 1

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2	2	Y	20
Second floor	KOHLER	2	8	Y	20
Third floor	KOHLER	2	8	Y	20

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	3	1	WALL	20
Second floor	KOHLER	3	3	WALL	20
Third floor	KOHLER	3	3	WALL	20

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	3	2	FLOOR	20
Second floor	KOHLER	3	9	FLOOR	20
Third floor	KOHLER	3	9	FLOOR	20

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	KOHLER	6-10	7	—	20
Third floor	KOHLER	6-10	7	—	20

Notes: _____

Water System Survey Information:

Building Number: 2-1138 Building Section: 2

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2	7	Y	20
Second floor	KOHLER	2	8	Y	20
Third floor	KOHLER	2	8	Y	20

Notes: (1) WASHING MACHINE 2ND / 3RD FLOORS EA
(1) UTILITY SINK 2ND / 3RD FLOORS EA

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	3	3	WALL	20
Second floor	KOHLER	3	3	WALL	20
Third floor	KOHLER	3	3	WALL	20

Notes:

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	2-3	5	FLOOR	20
Second floor	AMERICAN STD	2-3	8	FLOOR	20
Third floor	AMERICAN STD	2-3	8	FLOOR	20

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	6-10	4	—	20
Second floor	KOHLER	6-10	7	—	20
Third floor	KOHLER	6-10	7	—	20

Notes:

Water System Survey Information:

Building Number: 2-1138

Building Section: 3

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	2	6	Y	20
Second floor	KOHLER	2	11	Y	20
Third floor	KOHLER	2	11	Y	20

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	3	3	WALL	20
Second floor	KOHLER	3	3	WALL	20
Third floor	KOHLER	3	3	WALL	20

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	2-3	4	FLOOR	20
Second floor	AMERICAN STD	2-3	9	FLOOR	20
Third floor	AMERICAN STD	2-3	9	FLOOR	20

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	KOHLER	6-10	4	—	20
Second floor	KOHLER	6-10	7	—	20
Third floor	KOHLER	6-10	7	—	20

Notes: _____

Water System Survey Information:

Building Number: 2-1549

Building Section: ALL

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	3-4	7	NO	10
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: (1) SERVICE SINK

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	2	4	FLOOR	10
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes:

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	AMERICAN STD	—	6	FLOOR	10
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes:

Water System Survey Information:

Building Number: 2-1728

Building Section: 1

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	AMERICAN STD	2.5	9	Y	20
Third floor	—	—	—	—	—

Notes: BATHROOM ON 3RD FLOOR PADLOCKED AND
ABANDONED

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	SLOAN ROYAL WHE	1	6	WALL	20
Third floor	—	—	—	—	—

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	AMERICAN STD	3	6	FLOOR	20
Third floor	—	—	—	—	—

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Water System Survey Information:

Building Number: 2-1728

Building Section: 2

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	AMERICAN STD	3-4	8	NO	20
Third floor	—	—	—	—	—

Notes: 3RD FLOOR BATHROOM CONVERTED TO CLASSROOM

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	—	—	—	—
Third floor	—	—	—	—	—

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	AMERICAN STD	3	6	FLOOR	20
Third floor	—	—	—	—	—

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	ROCKWELL	60	1	—	—
Third floor	—	—	—	—	—

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Water System Survey Information:

Building Number: 2-1728

Building Section: 3

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	AMERICAN STD	2-3	8	N	15
Third floor	AMERICAN STD	3	2	N	15

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	AMERICAN STD	3	2	WALL	15
Third floor	AMERICAN STD	3	2	WALL	15

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	AMERICAN STD	3	6	FLOOR	15
Third floor	AMERICAN STD	3	3	FLOOR	—

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	—	5	4	—	—
Third floor	—	—	—	—	—

Notes: _____

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Water System Survey Information:

Building Number: 2-1731

Building Section: 1

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	KOHLER	2.5	4	Y	15
First floor	KOHLER	2	2	Y	20
Second floor	KOHLER	2	7	Y	20
Third floor	KOHLER	2	7	Y	20

Notes: UTILITY SINKS ON 2ND / 3RD FLOORS

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	SLOAN	3	1	WALL	15
First floor	SLOAN	3	1	WALL	20
Second floor	SLOAN	3	1	WALL	20
Third floor	SLOAN	3	1	WALL	20

Notes:

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	SLOAN	4.5	3	FLOOR	20
First floor	SLOAN	2-3	2	FLOOR	20
Second floor	SLOAN	2-3	9	FLOOR	20
Third floor	SLOAN	2-3	9	FLOOR	20

Notes:

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	INSTITUTIONAL	2-3	7	—	20
Third floor	INSTITUTIONAL	2-3	7	—	20

Notes:

Fort Bragg EEAP Survey
SystemsCorp Project No. 94013.05

Water System Survey Information:

Building Number: 2-1731

Building Section: 2

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	KOHLER	2	4	Y	10
First floor	KOHLER	2	2	Y	15
Second floor	KOHLER	2	7	Y	15
Third floor		2	7	Y	15

Notes: UTILITY SINKS ON 2ND / 3RD FLOORS

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	3	1	WALL	15
Second floor	SLOAN	3	1	WALL	15
Third floor	SLOAN	3	1	WALL	15

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	SLOAN	2-3	3	FLOOR	15
First floor	SLOAN	2-3	2	FLOOR	15
Second floor	SLOAN	2-3	1	FLOOR	15
Third floor	SLOAN	2-3	1	FLOOR	15

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	INSTITUTIONAL	2.5	7	—	15
Third floor	INSTITUTIONAL	2.5	7	—	15

Notes: _____

Water System Survey Information:

Building Number: 2-1731

Building Section: 3

Lavatories	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	KOHLER	2	7	Y	10
First floor	KOHLER	2	2	Y	15
Second floor	KOHLER	2	7	Y	12
Third floor	KOHLER	2	7	Y	15

Notes: _____

Urinals	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	—	—	—	—	—
First floor	SLOAN	3	1	WALL	15
Second floor	SLOAN	3	3	WALL	15
Third floor	SLOAN	3	3	WALL	15

Notes: _____

Water Closets	Manufacturer	GPF	Quantity	Mounting	No. of users
Basement	SLOAN	2-3	2	FLOOR	10
First floor	SLOAN	2-3	2	FLOOR	15
Second floor	SLOAN	2-3	9	FLOOR	15
Third floor	SLOAN	2-3	9	FLOOR	15

Notes: _____

Shower Heads	Manufacturer	GPM	Quantity	Aerator?	No. of users
Basement	—	—	—	—	—
First floor	—	—	—	—	—
Second floor	INSTITUTIONAL	2-3	7	—	15
Third floor	INSTITUTIONAL	2-3	7	—	15

Notes: _____

**HVAC
SYSTEM
SURVEY
FORMS**

VAC System Survey Information

Building number 1242

System type 2 pipe cw/hw

Manufacturer Airtherm

Serial number 9100802

Static pressure -

Heating type HW

Sketches & notes : SERVES ENTIRE FACILITY THAT IS STILL OPERATING Tbr.

Building section number ATTN - 2

Location BASEMENT MECH. RM

Model no. L1420

CFM -

Cooling type CW

O A cfm 20%?

7.5 HP GUPPVI FAN

~~NOT~~ RUNNING TODAY

VAC System Survey Information

Building number	<u>1242</u>	Building section number	<u>KITCHEN 1</u>
System type	<u></u>	Location	<u>BSMT. MECH RM</u>
Manufacturer	<u>AIRTHERM</u>	Model no.	<u>L2418</u>
Serial number	<u>9100656</u>	CFM	<u></u>
Static pressure	<u></u>	Cooling type	<u>CHILLED WATER - VERTICAL</u>
Heating type	<u>HOT WATER - DUAL TEMP</u>	O.A. cfm	<u>100 %</u>
Sketches & notes:	<u>15 HP SUPPLY FAN NOT RUNNING TODAY</u> <u>KITCHEN IS NO LONGER IN USE - UNIT NOT USED</u>		

BOILER - FUEL OIL H.W.

3 PASS FULL WATER WALL GENERATOR

SPENCER MODEL 4FW-240-SPL-O-GPL
S.N. 10483
BURNHAM CORP.

1674 MBH OUTPUT

3100 MBH INPUT

30 PSI WATER

TWO PIPE SYSTEM (DUAL TEMP SYSTEM)

1 PUMP RUNNING C.W. TODAY

EMCS CONTROLS BUT ON LOCAL CONTROL

HVAC System Survey Information:

Building Number: 1-1242 Building Section: AHU-1 KITCHEN M.A.U.
System Type: D.T. CONST. VOL. AHU Location: BASEMENT MECH RM
Manufacturer: CENTRALAIRE Model No.: AIRTHERM L2418
Serial Number: 9100656 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: 15 HP SUPPLY FAN - KITCHEN NO LONGER IN USE
BOILER FUEL OIL 3 PASS FULL WET BACK GENERATOR SPENCER MOD.
NO. 4 FW 240 SPLD GPL 1674 MBH OUTPUT 2100 MBH INPUT
AIR COOLED CHILLER

Building Number: 1-1242 Building Section: AHU-2
System Type: TWO PIPE CW/HW Location: BASEMENT MECH. RM.
Manufacturer: CENTRALAIRE Model No.: AIRTHERM L1420
Serial Number: 9100802 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: SERVES ENTIRE FACILITY 7.5 HP SUPPLY FAN
AIR COOLED CHILLER

HVAC System Survey Information:

Building Number: 1-1326 Building Section: —
System Type: DV / ELEC REHEAT Location: SECOND FLOOR
Manufacturer: — Model No.: —
Serial Number: — Cooling Type: Dx 2-22
Heating Type: ELEC REHEAT
Sketches & Notes: AHU-11 INACCESSIBLE 3HP FAN ON FMS
SWITCHED TO LOCAL

Building Number: 1-1326 Building Section: —
System Type: (2) TWO PIPE CV Location: OFF HALLWAYS 2ND FL
Manufacturer: YORK Model No.: A-S-V
Serial Number: 755113-142 Cooling Type: CHILL WATER
Heating Type: HOT WATER
Sketches & Notes: AHU-7 AHU-8 CORRIDOR RETURN THRU MECH
ROOM DOWN

HVAC System Survey Information:

Building Number: 1-1326 Building Section: —
System Type: FAN COILS 4 PIPE Location: GENERAL'S AREA
Manufacturer: DUNHAM BUSH Model No.: —
Serial Number: — Cooling Type: CHILL WATER
Heating Type: HOT WATER
Sketches & Notes: THREE SPEED FANS THREE WAY VALVES
HB SMITH #2 FUEL OIL BOILER CAST IRON 11 SECTIONS IN BASEMENT
2,247,000 BTU/HK WATER 22.5 GPH 160°F H.W. (2) SHP HW PUM

Building Number: 1-1326 Building Section: —
System Type: (2) AIR COOLED CHILLERS Location: REAR OF BLDG
Manufacturer: TIZANE Model No.: CGA-10004-EA
Serial Number: L612719833 Cooling Type: R-22 CHILL WATER
Heating Type: —
Sketches & Notes: (1) COMP 460V 164 FLA
(2) COND FAN 460V 11 FLA 7 HP
(1) 2 HP CW PUMP (2) 10 HP CW PUMP, (1) 15 HP CW PUMP

HVAC System Survey Information:

Building Number: 1-1326 Building Section: FIRST FLOOR
System Type: DX / ELEC HEAT Location: CONFERENCE ROOM
Manufacturer: CARRIER Model No.: —
Serial Number: — Cooling Type: DX 12-22
Heating Type: ELEC DUCT HTR
Sketches & Notes: AH-10 HEATER 208V 47A 1PH DX COOLING 2HP
FAN

Building Number: 1-1326 Building Section: FIRST FLOOR
System Type: TWO PIPE AHU Location: AIR RM OFF HALLWAY
Manufacturer: CHRISLER AIR TEMP Model No.: —
Serial Number: — Cooling Type: CHILL WATER
Heating Type: HOT WATER
Sketches & Notes: PLENUM RETURN W/ CLEANING SUPPLIES, IAQ PROBLEM
DIRTY FILTERS CROWDED MECH ROOM STORING CLEANING SUPPLIES
IN FRONT OF RETURN INTAKE TYP AH3

HVAC System Survey Information:

Building Number: -1333 Building Section: —
System Type: DX COOLING ONLY Location: OUTSIDE / REAR ENTRANCE
Manufacturer: TRANE Model No.: CA 3008
Serial Number: 818158461 Cooling Type: DX COOLING R-12/22
Heating Type: NONE
Sketches & Notes: SINGLE ZONE DX COOLING 12"x8" OA INTAKE
OIL HW BOILER HB SMITH SERIES 28 4 SECTION CAST IRON WATER
693 900 BTU/HR 7.0 GPM LIGHT OIL 1/2 HP RECIRC PUMP

Building Number: -1333 Building Section: —
System Type: WINDOW AC UNITS Location: —
Manufacturer: FRIEDERICH FEDDERS Model No.: —
Serial Number: — Cooling Type: —
Heating Type: —
Sketches & Notes: (4) 28,000 BTU/HR WINDOW AC UNITS
(3) 10,300 BTU/HR WINDOW AC UNITS
(1) 18,000 BTU/HR WINDOW AC UNIT

HVAC System Survey Information:

Building Number: 1-1454 Building Section: —
System Type: DX / HOT WATER Location: —
Manufacturer: TRANE 1993 Model No.: TTA 180B400BA
Serial Number: H121981692 Cooling Type: DX R-22
Heating Type: HOT WATER
Sketches & Notes: (2) COMPRESSOR MOTORS 12.8 FLA 400V
(2) FAN MOTORS 1.6 FLA 400V

Building Number: 1-1454 Building Section: —
System Type: (2) DX ELEC RH Location: —
Manufacturer: LEIBERT Model No.: UH290A-AM
Serial Number: 301300-002 Cooling Type: DX R-22
Heating Type: ELEC RH 3 STAGE
Sketches & Notes: 1993 460V 22.6 A / ELEMENT 3 STAGE HEAT
39.1 FLA TOTAL (2) COMPRESSORS 19.9 FLA 460V INFRARED
HUMIDIFIER 7.5 HP FAN CONDENSERS (2) MODEL NO CDF308LA

HVAC System Survey Information:

Building Number: 1-1434 Building Section: —
System Type: DX / HOT WATER Location: —
Manufacturer: TRANE 1992 Model No.: TTA120B400BA
Serial Number: H11198394 Cooling Type: DX R-22
Heating Type: HOT WATER
Sketches & Notes: (2) COMPRESSOR MOTOR 10.5 KVA EA 460V
(1) FAN MOTOR 2.7 FLA 460V

Building Number: 1-1434 Building Section: —
System Type: DX / HOT WATER Location: —
Manufacturer: TRANE 1993 Model No.: TTA090A400BA
Serial Number: H12198592 Cooling Type: DX R-22
Heating Type: HOT WATER
Sketches & Notes: COMPRESSOR MOTOR 13.3 KVA 460V
FAN MOTOR 1.6 FLA 460V

HVAC System Survey Information:

Building Number: 1-1434 Building Section: —
System Type: DX HOT WATER Location: MECHANICAL ROOM
Manufacturer: PEERLESS Model No.: JOTW-27S-W
Serial Number: JOTW121254-0393 Cooling Type: DX
Heating Type: HOT WATER
Sketches & Notes: HOT WATER BOILER 2.75 GPH LIGHT OIL
270,000 BTU/HR WATER 1 HP IN-LINE PUMP

Building Number: _____ Building Section: _____
System Type: _____ Location: _____
Manufacturer: _____ Model No.: _____
Serial Number: _____ Cooling Type: _____
Heating Type: _____
Sketches & Notes: _____

HVAC System Survey Information:

Building Number: 2-1105 Building Section: 1
System Type: DTWS AHU Location: BASEMENT
Manufacturer: AIR THERM Model No.: L1218
Serial Number: 7100G20 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: AHU SERVES ALL FLOORS IN SECTION 1 ; SUPPLY FAN
7.5 HP / 1745 RPM RETURN FAN 2.0 HP / 1720 RPM ; BOILER
IS WEIL-MCLAIN. MODEL NO. 1788 DUAL FIRE 4.37 MBH OUTPUT

Building Number: 2-1105 Building Section: 2
System Type: DTWS AHU Location: BASEMENT
Manufacturer: AIR THERM Model No.: L1218
Serial Number: 9100G19 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: SAME CONFIG. AS SECTION 1 ; O.A. LOCKED CLOSED /
RELIEF LOCKED CLOSED ; BUILDING SECTION ALSO HAS 100% O.A.
UNIT SERVES KITCHEN ONLY

Ft. Bragg EEAP Survey
SystemsCorp Project No. 94013.05

HVAC System Survey Information:

Building Number: 2-1105 Building Section: 3
System Type: DTWS AHU Location: BASEMENT
Manufacturer: AIR THERM Model No.: L1218
Serial Number: 9100 G 18 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: SAME CONFIG. AS SECTION 1 ; O.A. DAMPER DISABLE
CLOSED ; FILTERS HAVE BEEN REMOVED

Building Number: 2-1105 Building Section: 4
System Type: DTWS AHU Location: BASEMENT
Manufacturer: AIR THERM Model No.: L1218
Serial Number: 9100 G 17 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: AHU SERVES ALL FLOORS IN SECTION 2 ; SAME
CONFIG. AS SECTION 1

HVAC System Survey Information:

Building Number: 2-1120 Building Section: —
System Type: TWO PIPE FAN COILS Location: —
Manufacturer: — Model No.: —
Serial Number: — Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: 3 SPEED FANS WATER COOLED CHILLER
CAST IRON SECTIONAL FUEL OIL BOLLER

Building Number: 2-1120 Building Section: 3
System Type: DUALTEMP WATER Location: FIRST FLOOR
Manufacturer: CENTRAL AIRF Model No.: —
Serial Number: — Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: 7.5 HP SUPPLY FAN 3 HP RETURN FAN

Ft. Bragg EEAP Survey
SystemsCorp Project No. 94013.05

HVAC System Survey Information:

Building Number: 2-1127 Building Section: ALL FLOORS
System Type: TP FAN COILS Location: —
Manufacturer: TRANE Model No.: BSP 2A 008 / 006
Serial Number: S 83B 03498 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: 3 SPEED FANS

Building Number: 2-1133 Building Section: ALL FLOORS
System Type: WATER SOURCE H.P. Location: —
Manufacturer: CARRIER Model No.: —
Serial Number: — Cooling Type: DX
Heating Type: HOT WATER
Sketches & Notes: EVAPCO COOLING TOWER 3 CELL CROSSFLOW MODEL

NO. PMW-174A SERIAL NO. 279178 ; BOILER CAST IRON PEERLESS
NAT GAS / OIL 2.540 MBH GAS INPUT / 17.6 GPH OIL

Ft. Bragg EEAP Survey
SystemsCorp Project No. 94013.05

HVAC System Survey Information:

Building Number: 2-1127 Building Section: ALL FLOORS
System Type: TP FAN COILS Location: —
Manufacturer: TRANE Model No.: BSP 2A 008 / 006
Serial Number: S 83B 03498 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: 3 SPEED FANS

Building Number: 2-1133 Building Section: ALL FLOORS
System Type: WATER SOURCE H.P. Location: —
Manufacturer: CARRIER Model No.: —
Serial Number: — Cooling Type: DX
Heating Type: HOT WATER
Sketches & Notes: EVAPCO COOLING TOWER 3 CELL CROSSFLOW MODEL

NO. PMW-174A SERIAL NO. 279179 ; BOILER CAST IRON PEERLESS
NAT GAS / OIL 2.540 MBH GAS INPUT / 17.6 GPH OIL

10-26

130 ft

55°F

VAC System Survey Information

Building number 2-1133 Building section number _____
System type _____ Location _____
Manufacturer CARRIER WS. HPUMS Model no. _____
Serial number _____ CFM _____
Static pressure _____ Cooling type _____
Heating type 50 KQ WATER SOURCE O A cfm _____
Sketches & notes : HT PUMPS
THROUGHOUT BLDG NO EMCS

HAS 2 PRIMARY AND SECONDARY PUMPS
WATER TEMP IS 35°F IN WATER LOOP
EVAPCO COOLING TOWER

3 CELL CROSSFLOW

MODEL PMW-174A S.N. 879178

5 HP BASIN WATER RECIKE PUMP RUNNING
NO FANS RUNNING

NO CHILLER

BOILER - PEERLESS OF BOYKETTOWN, PA

DUAL FUEL NAT GAS / OIL CASE IRON

NOT

RUNNING

TEMP

2540 MBH GAS INPUT 1716 GPM

1746, 100 Btu/lb WATER OUTPUT

HVAC System Survey Information:

Building Number: 2-1138 Building Section: 1
System Type: D.T.C.V. Location: 1ST FL MECH RM
Manufacturer: CENTRALAIRE Model No.: AIRTHERM L201U
Serial Number: — Cooling Type: CHILL WATER
Heating Type: HOT WATER
Sketches & Notes: DES 20% OA BUT DAMPER CLOSED ; 7.5 HP SUPPLY SHP
RETURN ; 3 WAY VALVES ; CARRIER R-22 AIR COOLED CHILLER
MOD. NO. 30GB150 550 AA SER NO. Q696639

Building Number: 2-1138 Building Section: 2
System Type: D.T.C.V. Location: BASEMENT MECH. RM
Manufacturer: CENTRALAIRE Model No.: AIRTHERM L121X
Serial Number: — Cooling Type: CHILL WATER
Heating Type: HOT WATER
Sketches & Notes: 10 HP SUPPLY 5 HP RETURN FAN ; BURINHAM BOILER
FUEL OIL CAST IRON 2407 MBH WATER 2.41 GPH 10 HP DT
WATER PUMP

HVAC System Survey Information:

Building Number: 2-1549 Building Section: SHOP FLOOR AREA
System Type: UNIT HEATERS Location: CEILING MOUNTED
Manufacturer: DUNHAM BUSHT Model No.: —
Serial Number: — Cooling Type: NONE
Heating Type: STEAM
Sketches & Notes: 1/8 HP FAN MOTORS 2 OIL BOILERS : PEERLESS LIGHT
OIL CAST IRON SECTIONAL 1,241 200 BTU/H STEAM MOD. NO. 0713 FDA
WEIL-McCLAIN #2 FUEL OIL CAST IRON SECTIONAL 15-25 GPH RUKNEIR

Building Number: 2-1549 Building Section: OFFICES / BRK RM
System Type: WINDOW AC UNITS Location: —
Manufacturer: — Model No.: —
Serial Number: — Cooling Type: DX WINDOW UNIT
Heating Type: (1) 16,300 BTU/HR - MAIN OFFICE
Sketches & Notes: (1) 23,800 BTU/HR ; (1) 18,000 BTU/HR
(1) 10,000 BTU/HR ; (1) 16,000 BTU/HR

HVAC System Survey Information:

Building Number: 2-1728 Building Section: ONE - SOUTH
System Type: SINGLE ZONE AHU Location: PORCH - THIRD FLOOR
Manufacturer: TRANE CLIMATE Model No.: CHANGER CCD812DE08
Serial Number: — Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: ON EMS CONTROL ; (2) R-22 AIR COOLED CARRIER MOD.
NO. 30GB100520 (4) COMPRESSORS (8) FANS 1.75 HP EA 20% OA
10 HP CW PUMP ; HB SMITH CAST IRON BOILER FUEL OIL 12 SECTIONS
2,409,400 BTU/HR WATER 25 GPH OIL (3) 5 HP HW PUMPS BOILER P.A.D

Building Number: 2-1728 Building Section: TWO SOUTH
System Type: SINGLE ZONE AHU Location: SECOND FLOOR
Manufacturer: DUNHAM BUSH Model No.: —
Serial Number: — Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: TRANE CHILLER IN BASEMENT MODEL NO. CGABC401A
BOIF23 (2) COMP 72 RLA EA (4) COND FANS 1HP EA

HVAC System Survey Information:

Building Number: 2-1728 Building Section: BASEMENT
System Type: PACKAGED SZ (2) Location: WALL MOUNTED
Manufacturer: LIEBERT-DATAMATE Model No.: -
Serial Number: - Cooling Type: DX P-22
Heating Type: ELEC 50 KW
Sketches & Notes: ELEC HUMIDIFIER TO RLA 208/230 1 PH TWO
SPEED FANS 1/6 HP 1/9 HP

Building Number: 2-1731 Building Section: 3
System Type: MULTIZONE Location: BASEMENT
Manufacturer: AIRTERM CENTRALAIR Model No.: R/L1420 S/L3020
Serial Number: 1100606/91006005 Cooling Type: CHILLED WATER
Heating Type: HEAT WATER
Sketches & Notes: O.A. ACTUATOR DISABLED LOCKED CLOSED RET FAN
5 HP 1745 RPM SUP FAN 7.5 HP 1745 RPM

HVAC System Survey Information:

Building Number: 2-1728 Building Section: BASEMENT
System Type: PACKAGED SZ (2) Location: WALL MOUNTED
Manufacturer: LIEBERT DATAMATE Model No.: -
Serial Number: - Cooling Type: DX R-22
Heating Type: ELEC 5.0 KW
Sketches & Notes: ELEC HUMIDIFIER 7.0 RLA 208/230 1 PH TWO
SPEED FANS 1/6 HP 1/9 HP

Building Number: 2-1731 Building Section: 3
System Type: MULTIZONE Location: BASEMENT
Manufacturer: AIRTHERM CENTRAIRE Model No.: R/L1420 S/L3020
Serial Number: 1100606/91006005 Cooling Type: CHILLED WATER
Heating Type: WET WATER
Sketches & Notes: C.O.A. ACTUATOR DISABLED LOCKED CLOSED 12T FAN
5 HP 1745 RPM SUP FAN 7.5 HP 1745 RPM

HVAC System Survey Information:

Building Number: 2-1731 Building Section: 2
System Type: MULTIZONE AHU Location: REAR OF BLDG
Manufacturer: CARRIER Model No.: 30GB110 SSO AA
Serial Number: X697406 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: (5) COMP : (3) 208/230/3/60 102.9 KVA 44.6 LRA
(2) 208/230/3/60 110 KVA 50.6 LRA
(10) COND FANS 6.6 FLA 1.75 NEC HP FA 1.51 KWOUT

Building Number: 2-1731 Building Section: 1
System Type: SINGLEZONE AHUS Location: REAR OF BLDG
Manufacturer: BOHN AC/R DIV Model No.: DVS CMZ BULL
Serial Number: BLL S1416 Cooling Type: CHILLED WATER
Heating Type: HOT WATER
Sketches & Notes: AIR COOLED CONDENSER AC-2 AC-1 SERVE
DAY ROOM / TV READING ROOM COND FAN 1/2 HP 2.4 AMPS