REVISIONS				
LET	DESCRIPTION	PREP'D BY	DATE	APPROVED
		RAT	10CT82	MARTEN

BOILER/GENERATOR BLDG. AREA | HOSPITAL BLDG. AREA

EMERGENCY GENERATOR 600KW, 0.8 PF 277/480V. 3φ, 4W

№ 1 G — 1200A

№ 2 G — 1200A

№ 3 G — 1200A

3 SETS - 4-500 MCM IN 3-3"C.

277/480V., 3φ, 4W, 1200A. BUS

1200 A., 3P-3W MANUAL TRANSFER SWITCH

1200 A. BUS

3 SETS - 3-500 MCM IN 3-3"C.

SWITCHBOARD 'EM' — 480V., 3φ, 3W, 1200A.

SPARE
SPARE

3-#4/0 IN DUCT (54)

SWITCHBOARD № 4 277/480V. 3φ, 4W, 1200A.

1 SET - 3-600 MCM + 2 SETS 4-600 MCM IN DUCT (54)

1200A

SPARE

FIRE ALARM SWITCH 480V, 2P, 30A., FUSED AT 5A.

3-#12, 1/2"C. — FACP

2-#12, 1/2"C. — XFMR 'L1T'

№ 1 — 4-#3/0, 2-1/2"C. — PANEL 'L1H1'

LIFE SAFETY BR #1

№ 2 — BRKR. D, BRKR. B, BRKR. C

LIFE SUPPORT BR

BRKR. B & D 1P+SN, 277V., 300A., 25,000A I.C.

BRKR. C 1P+SN, 277V., 125A., 25,000A I.C.

№ 3

CRITICAL BR. #1

№ 4

EQUIP. BR. #1

№ 5

EQUIP. BR. #2

№ 6

EQUIP. BR. #3

№ 7

EQUIP. BR. #4

№ 8

CRITICAL BR #2

3-#6, 1"C. — 4-#1/0, 2"C. — XFMR 'L1MT' — PANEL 'L1MP'

4-#8, 1"C. — PANEL 'L1P'

2-300MCM, 2-1/2"C. — PANEL 'S2H2'

2-300MCM, 2-1/2"C. — PANEL 'S2H1'

2-#1, 1-1/4"C. — PANEL 'S1H'

DISTRIBUTION PANEL 'C1H1' — XFMR 'C1T1'

3-#6, 1"C. — 4-#2, 1-1/2"C. — PANEL 'C1P1'

4-#4, 1-1/4"C. — PANEL C1H2

(2) - 4-300MCM, 2-3"C. — 4 #6, 1 1/4"C — MEDICAL LOGISTICS SUPPORT BLDG.

3-#8, 3/4"C. — XFMR 'C2T1' — 4-#2, 1-1/2"C. — PANEL 'C1P2'

3-#4/0, 2-1/2"C. — XFMR 'CMT1' — E44 6

DISTRIBUTION PANEL 'A1H2' — XFMR 'AMT' — 4-250MCM, 2-1/2"C. — PANEL 'A1P2'

3-#6, 1"C. — 4-#1/0, 2"C. — XFMR 'A1T' — PANEL 'A1P3'

3-#4/0, 2-1/2"C.

DISTRIBUTION PANEL 'A1H1' — XFMR 'A2T' — 3-#2/0, 2"C. — PANEL 'A1P1'

2-#2, 1-1/4"C.

2 SETS - 3-#4/0, 3"C.

X-RAY
X-RAY
X-RAY
X-RAY

3-500MCM, 3"C. — MCC 'AMC1'

MCC 'A2C'

3-250M, 2-1/2"C. — MCC 'AMC2'

SWITCHBOARD № 2 277/480V. 3φ, 4W, 2000A.

XFMR 'N2T1' — E44 1
XFMR 'NMT1' — E44 2

X-RAY
X-RAY

4-#3/0, 2-1/2"C.

PANEL 'N1H1'
PANEL 'N1H2'
PANEL 'N1H3'
SPARE
PANEL 'N2H'
X-RAY
SPARE

IL

2000A — FUSED AT 125A.

2 SETS - 4-600 MCM + 3 SETS - 3-600MCM IN DUCT (55)

4 SETS - 3-500MCM IN DUCT (54A)

N.O. — SEE NOTE 4

SPARE

XFMR 'N2T2' — E44 3
XFMR 'N2T3' — E44 4
XFMR 'NMT2' — E44 5

MOTOR CONTROL CENTER 'NMC'

SPARE
SPARE
SPARE

3-#3/0, 3"C. — 3-#2, 1-1/4"C. — MARK 'A' — LIFE SAFETY BR #2

FIRE ALARM XFMR — 3E

LIGHTS — BRKR. #1

LIGHTING CONTACTOR #2 & 3

FIRE PUMP

3-#12, 1/2"C. — JOCKEY PUMP — BRKR. #2 — MCC 'ABC1' — MARK 'B' — EQUIP. BR. #5

MARK 'C' — MCC 'ABC2' — EQUIP. BR. #6

PANEL 'ABH'

4-#6, 1"C. — PANEL 'ABP' — XFMR 'ABT'

3-#10, 1/2"C. — PUMPS IN BLDG 3013

CHILLER #3 — MARK 'D' — EQUIP. BR. #7

EMER. POWER BRKR. "K" 300 A.

3-#2/0, 1-1/2"C.

TIE BREAKER SEE NOTE 4 — N.O.

IL

AUTO TRANSFER SWITCH № 1 400A., 3P

FUSED AT 80A

1600A.

MCC 'NBC'

CHILLER #1

3-#8, 1/2"C. — CHILLER #2

3E — XFMR 'NBT' — 4-#2, 1-1/4"C. — PANEL 'NB2' PANEL 'NBH'

LAWN SPRINKLER PUMP

SPARE
SPARE
SPARE

TRANSFORMER № 1, 3φ 1000 KVA, 12,470 V. Δ PRIMARY - 277/480V. Y SECONDARY, Z MIN. = 5.75 %

12,470 V., 3φ, 3W DISTRIBUTION LINE, IN DUCT BANK. CSEE NOTE 1), TYPICAL.

4 SETS-3-500 MCM IN DUCT (47)

INTERLOCKED W/TIE BRKR

SWITCHBOARD № 1 480V, 3φ, 3W, 1600 A.

XEB 2
XEB 1

AUTO TRANSFER SWITCH № 2 400A., 3P

EMER. POWER BRKR. "A" 3P, 480V., 200A. TRIP CLASS 46

TRANSFORMER № 2

XEB 4
XEB 3

1500 KVA, 3φ 12,470V. Δ PRIMARY - 277/480V. Y SECONDARY Z MIN. = 5.75 %

AUTO TRANSFER SWITCH № 3 400A, 3P

TRANSFORMER № 3

1600A. N.C.

2000A.

XEB 6
XEB 5

TO MEDICAL LOGISTICS SUPPORT BLDG XFMR 3 # 2, 15 KV, AL.

FUSED AT 125A.

3 SETS - 3-600 MCM + 2 SETS - 4-600 MCM IN DUCT (56)

SWITCHBOARD № 3 277/480V. 3φ, 4W, 2000A.

DISTRIBUTION PANEL 'CMH' — XFMR 'CMT2' — E44 7

3-400 MCM, 3"C.

SPARE
SPARE
SPARE

2 SETS - 3-250 MCM, 2-2-1/2"C.

3-#6, 1"C. — 4-#1/0, 2"C. — PANEL 'C1P3'

3-#8 3/4"C. — XFMR 'C1T2' — PANEL 'C1P4'

4-#2, 1-1/2"C.

EMERGENCY LINE

175A — 125A. CLASS 3R — 20A CLASS 3R

20A CLASS 3R — 125 A CLASS 3R — 150 A CLASS 3R — 150A. CLASS 3R — 150A CLASS 3R

MULTIUNIT ELEVATOR TRANSFER SWITCH & DISTR. PANEL

SEE NOTE 5

3-#12, 1/2"C. — ELEV #1 THRU 4 COMMON CONTROL PANEL

#9 ELEV. #1
#10 ELEV. #2 (ADDITIVE BID ITEM)
#11 ELEV. #3
#12 ELEV. #4

3-#3/0, 2"C.

3-#4/0, 2"C.

11-1-82

NOTES:

(1) FOR SIZES OF 15 KV CABLES SEE NOTE 2 ON DWG. 5046655

(2) LIGHTNING ARRESTOR
POTHEAD
OIL CUTOUT, 200A, 3P
N.O. NORMALLY OPEN
N.C. NORMALLY CLOSED

(3) FOR WIRE & CONDUIT SIZES NOT SHOWN ON THIS DWG SEE PANEL, SWBD. & MCC SCHEDULES NAVFAC DWG. NO. 5046949 THRU 5046956 INCL. & 5047008

(4) PROVIDE INTERLOCKING AMONG THREE BRKRS SUCH THAT ONLY 2 MAY BE IN CLOSED POSITION AT ANY TIME. ALL THREE MAY BE IN OPEN POSITION AT ANY TIME

(5) THIS TRANSFER SWITCH TRANSFERS TO EMERGENCY LINE WHEN AND ONLY WHEN ANY OF XFMR SW #9 THRU 12 TRANSFERS, RATING 480 V, 3P, 20A. PROVIDE THIS SWITCH ONLY IF ELEV. COMMON CONTROL PANEL IS REQUIRED.

K&E 19-1153 10 75 W3259• 6NO-SOUTH DIV-4-11012-15 CAROLINA ESP P452

ROGERS, LOVELOCK, FRITZ, ROGERS & BUTLER LOPATKA, McQUAIG & WALL CORPORATION
ARCHITECTS • ENGINEERS • PLANNERS
WINTER PARK, FLORIDA 32789

DSGN VANOCH DRKICHER & CHKLAPCHARK

SUPV LAPCHAR'N CH ENGR J. MARTEN

SUBMITTED BY — DATE 28 FEB 71

FIRM MEMBER (TITLE) PARTNER

SOUTHERN DIV NAVFAC DESIGN DIVISION

PDE — DIR

APPROVED — DATE

OFFICER IN CHARGE

APPROVED — DATE

EFD FOR COMMANDER, NAVFAC

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S. C.

NAVAL REGIONAL MEDICAL CENTER ORLANDO, FLORIDA

HOSPITAL REPLACEMENT

POWER - SINGLE LINE DIAGRAM SHEET 1 OF 2

E43

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	5046945
		CONSTR CONTR NO. N62467-75-C-0340
SCALE NO SCALE		SPEC 06-75-0340 SHEET 354 OF