

RECEPTACLE OUTLETS

LETTER IS CIRCUIT CONTROL GROUP.
 "42" INDICATES MOUNTED AT 42" A.F.F.
 "GFI" INDICATES GFI OUTLET
 (PROTECTS DOWNSTREAM
 RECEPTACLES ON SAME CIRCUIT.)
 "TR" INDICATES TAMPER RESISTANT.
 ADJUST TO MINIMIZE CUT OF BLOCK AND TILE.
 MOUNT WITH GROUND TERMINAL AT TOP.

- ⊖ SINGLE RECEPTACLE OUTLET
NEMA 5-20R, HEAVY DUTY
- ⊖ DUPLEX RECEPTACLE OUTLET
NEMA 5-20R, HEAVY DUTY
- ⊕ QUADRUPLEX RECEPTACLE OUTLET (DOUBLE
DUPLEX) NEMA 5-20R, HEAVY DUTY
- ⊖ DUPLEX RECEPTACLE OUTLET, EMERGENCY
CIRCUIT, NEMA 5-20R, HEAVY DUTY, RED
DEVICE, AND BACKPLATE
- ⊕ QUADRUPLEX RECEPTACLE OUTLET (DOUBLE
DUPLEX) EMERGENCY CIRCUIT, NEMA 5-20R,
HEAVY DUTY, RED DEVICE, AND BACKPLATE
- ⊖ RGE RANGE OUTLET NEMA 14-50R
("D" INDICATES DRYER OUTLET NEMA 14-30R)
- ⊖ DW SPECIAL PURPOSE CONNECTION
LETTER(S) BESIDE SYMBOL INDICATES
ACTUAL EQUIPMENT SERVED.
- ⊖ FLOOR SINGLE RECEPTACLE OUTLET
W/ COVER. NEMA 5-20R
- ⊖ FLOOR DUPLEX RECEPTACLE OUTLET
W/ COVER. NEMA 5-20R
- ⊖ DW FLOOR SPECIAL PURPOSE OUTLET
LETTER(S) BESIDE SYMBOL INDICATES
ACTUAL EQUIPMENT SERVED.
- WM/# "WIREMOLD" WITH SINGLE NEMA 5-20R OUTLETS
AS SHOWN. OUTLETS SHALL BE CIRCUITED
ALTERNATELY. WALL MOUNT AS SHOWN ON
THE DWG'S. # SHOWS NUMBER OF
DUPLEX RECEPTACLES.
- ▼ W VOICE OUTLET AS NOTED (ONE VOICE LINE)
W = WALL PHONE, 54" A.F.F.
P = PAY PHONE, 42" A.F.F.
- ▼ STANDARD MMC VOICE/DATA DROP
(1 CAT-5e FOR DATA AND A SPLIT CAT-3 FOR VOICE)
- ▼ D DUAL DATA DROP
(STANDARD MMC DROP PLUS ANOTHER CAT-5e FOR DATA)
- ▼ V SINGLE VOICE OUTLET/JACK, 18" A.F.F.
(ONE VOICE LINE)
- ▼ E EXISTING DROP (JACK NUMBERING SHOWN HAS BEEN
SUPPLIED BY MMC NETWORK SERVICES DEPARTMENT)
- ▼ # MULTIPLE DROP (JACK NUMBERING SHOWN HAS
BEEN SUPPLIED BY MMC NETWORK SERVICES DEPARTMENT)
- TV COAXIAL CABLE TELEVISION OUTLET

SWITCHES / CONTROLS

SWITCHES LOCATED IN THE SAME AREA SHALL
 BE GANGED UNDER COMMON PLATE WHENEVER
 PRACTICAL, GROUP SWITCHES, THERMOSTATS ETC.
 TOGETHER. SWITCHES SHALL BE LOCATED ON
 STRIKE SIDE OF DOOR. ADJUST TO MINIMIZE CUT
 OF BLOCK OR TILE. LETTER IS SWITCH CONTROL
 GROUP.

- \$ SINGLE POLE SWITCH
- \$₂ DOUBLE POLE SWITCH
- \$₃ THREE-WAY SWITCH
- \$₄ FOUR-WAY SWITCH
- \$_D DIMMER SWITCH, PROVIDE SWITCH
FOR FIXTURES ACTUALLY SERVED.
- \$_{HP} MOTOR SWITCH, HORSEPOWER RATED
- LC LIGHTING CONTACTOR - NUMBER OF
POLES AS REQUIRED
- TM 24 HOUR TIMER
- PE PHOTOELECTRIC CONTROL - LOCATED
ON EXTERIOR WALL - ORIENT TO NORTH
ELEVATION
- T WALL MTD. THERMOSTAT - "LC" INDICATES
W/ LOCKING COVER

PANELS & CIRCUITS

- ELECTRICAL PANEL, SURFACE MOUNTED
- ELECTRICAL PANEL, FLUSH MOUNTED
- HOME RUN TO CIRCUIT AND PANEL BOARD
INDICATED. ARROWS INDICATE POLES,
- LP1-3 (PAR) INDICATES PARTIAL CIRCUIT
INDICATES CIRCUIT NUMBER
INDICATES PANEL
- ELECTRICAL FEED TO EQUIPMENT
MULTIPLE ARROWHEADS INDICATES MULTIPLE
CIRCUITS
- ↪ DIRECT CONNECTION OF EQUIPMENT NOTED.
USE FLEXIBLE CABLE OF TYPE APPROVED
FOR LOCATION.
- CONDUIT RUN FLEXIBLE METALLIC
- CABLE FLEXIBLE
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- CONDUIT RUN UP AND DOWN
- CONDUIT OR CABLE RUN, ABOVE GRADE
- CONDUIT OR CABLE RUN, FEEDER
CONCEALED
- T TRANSFORMER, SIZE & TYPE AS INDICATED
- J, C, C JUNCTION BOX - SIZED IN ACCORDANCE
WITH NEC - "C" INDICATES MOUNTING
IN CEILING SPACE
- 3P 3 POLE, NON-FUSIBLE DISCONNECT SWITCH
30 = AMPACITY. VOLTAGE AS REQ'D.
- 3P 3 POLE FUSIBLE DISCONNECT SWITCH
60 = CLIP SIZE, 40 = FUSE SIZE
VOLTAGE AS REQ'D
- 3P 3 POLE WEATHERPROOF DISCONNECT SWITCH
SIZE & CONFIGURATION AS NOTED ABOVE
- S MANUAL STARTER - FLUSH TYPE IN FINISHED
AREAS.
- 5 MOTOR, HP AS INDICATED
COORDINATE W/ ACTUAL
EQUIPMENT FURNISHED.
- ⊗ COMBINATION MAGNETIC STARTER - NEMA
SIZE AS REQUIRED (MINIMUM SIZE 1)
PROVIDE W/ H-O-A SWITCH AND
GREEN RUN LIGHT ON COVER.

NURSE CALL

- NC_T NURSE CALL TOILET PULL STATION
- NC₁ NURSE CALL STATION. NUMBER INDICATES BOX GANG QUANTITY.
- NC_Z NURSE CALL CORRIDOR LIGHT. PROVIDE 2-GANG BACK BOX.
"Z" INDICATES ZONE LIGHT
- DS NURSE CALL DUTY STATION
- ZL NURSE CALL ZONE LIGHT
- MS NURSE CALL MASTER STATION

FIRE ALARM & LIFE SAFETY

- FP FIRE ALARM PULL STATION MTD 48" A.F.F.
- SD EL SMOKE DETECTOR
EL = ELEVATOR CONTROL
- SD DUCT SMOKE DETECTOR - SHALL BE FROM
THE SAME MANUFACTURER AS THE BUILDING
FIRE ALARM SYSTEM
- RTS REMOTE TEST STATION
- HD₁₃₅,₂₀₀ HEAT DETECTOR - TEMP. AS INDICATED
HR = COMBINATION RATE OF RISE AND FIXED
TEMPERATURE (135°F, 200°F - 15°F MINUTE)
HF = FIXED TEMPERATURE ONLY (135°, 200°)
HA = RATE ANTICIPATION 194°F
- F< FIRE ALARM SPEAKER/STROBE LIGHT, MTD 80" A.F.F.
(75 CANDELA)
- FS FIRE ALARM STROBE LIGHT, MTD 80" A.F.F.
(75 CANDELA)
- DH FIRE ALARM SYSTEM MAGNETIC
DOOR HOLDER
- DC FIRE ALARM SYSTEM
DOOR CLOSER
- FPS FIRE ALARM BATTERY BACK-UP
POWER SUPPLY
- ⊗ EXIT SIGN, RED LETTERING (SEE FIXTURE SCHEDULE)

MISCELLANEOUS SYSTEMS

- ⊖ EXISTING "SIMPLEX" CLOCK
- ESP, SP SPEAKER
- CCTV CAMERA
- ACU AIR CONDITIONING UNIT
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- AIC AMPERE INTERRUPTING CAPACITY
- C CONDUIT
- CB CIRCUIT BREAKER
- CL CENTER LINE
- CCTV CLOSED CIRCUIT TELEVISION
- CLF CURRENT LIMITING FUSE
- CTF CURRENT TRANSFORMER
- CTV CABLE TELEVISION
- CJ CONDENSING UNIT
- CUH CABINET UNIT HEATER
- CWP CONDENSER WATER PUMP
- DT DISTRIBUTION TRANSFORMER
- DW DISHWASHER
- DWG DRAWING
- EBB ELECTRIC BASEBOARD HEATER
- EDH ELECTRIC DUCT HEATER
- EF EXHAUST FAN
- EUH ELECTRIC UNIT HEATER
- EWC ELECTRIC WATER COOLER
- EX EXISTING EQUIPMENT (AS NOTED)
- FACP FIRE ALARM CONTROL PANEL
- FBO FURNISHED BY OWNER
- FC FAN COIL
- GD GARBAGE DISPOSER
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- GND GROUND
- GRC GALVANIZED RIGID STEEL CONDUIT
- H HUMIDIFIER
- HD HAND / HAIR DRYER
- HH HAND HOLE
- HP HORSEPOWER / HEAT PUMP
- HPS HIGH PRESSURE SODIUM
- HRU HEAT RECOVERY UNIT
- HV HIGH VOLTAGE
- HWP HOT WATER CIRC. PUMP
- IC ISOLATED GROUND
- IR INFRA-RED
- KW KILOWATT
- KWH KILOWATT HOUR
- LIG LONG INSTANTANEOUS/GROUND FAULT
LIGHTING
- LTC MASTER ANTENNA TELEVISION
- MB MAIN BREAKER
- MD MAIN DISCONNECT
- MDP MAIN DISTRIBUTION PANEL
- MH MAN HOLE / METAL HALIDE
- MLO MAIN LUGS ONLY
- MMC MAINE MEDICAL CENTER
- MTD MOUNTED
- MW MICROWAVE
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRICAL CODE (NFPA-70)
- NF NOT FUSED
- NI NOT IN CONTRACT
- NL NIGHT LIGHT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- NTU NURSE CALL TERMINAL UNIT
- OC ON CENTER
- OCB OVERCURRENT DEVICE
- PB PULL BOX
- PM "PLUGMOLD" UTILIZED
- PT POTENTIAL TRANSFORMER
- RCU REFRIGERATION CONDENSING UNIT
- RECP RECEPTACLE
- REF REFRIGERATOR
- REQ'D REQUIRED
- RF RETURN FAN
- RGE RANGE
- RGS RIGID GALVANIZED STEEL CONDUIT
- RH RANGE HOOD
- RT ROOF TOP MOUNTED IN A
WEATHERPROOF ENCLOSURE
- RTAC ROOF TOP AIR CONDITIONER
- SF SUPPLY FAN
- S/N SOLID NEUTRAL
- SOV SOLENOID VALVE
- TBD TO BE DETERMINED
- TR TAMPER RESISTANT
- TV TELEVISION
- TYP TYPICAL
- UC UNDER COUNTER
- UH UNIT HEATER
- UNO UNLESS NOTED OTHERWISE
- UV UNIT VENTILATORS
- VB X-RAY VIEW BOX
- WC WATER COOLER
- WH WATER HEATER
- WP WEATHERPROOF
- XFMR TRANSFORMER
- SS SURGE SUPPRESSOR RECEPTACLE
- WM INSTALL WITH "WIREMOLD"

ABBREVIATIONS

GENERAL NOTES

1. ALL GENERAL NOTES, SYMBOL LIST & DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.
2. ALL WORK PERFORMED ON THIS CONTRACT SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE IN COMPLIANCE WITH NEC, NFPA, BOCA, OSHA, AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES
3. THESE DRAWINGS ARE, IN GENERAL, MADE TO SCALE BUT ALL MEASUREMENTS SHALL BE TAKEN FROM FIGURED DIMENSIONS, AND NOT BY SCALING.
4. THE ELECTRICAL CONTRACTOR SHALL CONFER WITH ALL OTHER TRADES RELATIVE TO THE LOCATION OF APPARATUS AND EQUIPMENT AND SELECT LOCATIONS SO AS NOT TO CONFLICT WITH WORK OF OTHER TRADES.
5. LIGHTING FIXTURE MANUFACTURERS NAME & MODEL NUMBER ARE USED FOR DESCRIPTIVE PURPOSES ONLY AND ARE INTENDED TO INDICATE THE STANDARD OF MATERIAL OR ARTICLES REQUIRED. ALL OTHER EQUIPMENT SHALL NOT BE SUBSTITUTED EXCEPT UNDER THE PROVISIONS OF SECTION 3A, ARTICLE 9, (CONDITIONS OF THE CONTRACT) OR OTHERWISE ALLOWED BY SPECIFICATION.
6. ALL EQUIPMENT SHOWN ON THESE DRAWINGS IS INTENDED TO BE GENERALLY REPRESENTATIVE OF THE EQUIPMENT WHICH WILL BE INSTALLED UNDER THIS CONTRACT, BUT IT SHALL NOT BE ASSUMED THAT THE DRAWINGS INDICATE THE SPECIFIC CONFIGURATION, ARRANGEMENT OR POINTS OF CONNECTION OF THE ACTUAL EQUIPMENT UNLESS NOTED OTHERWISE.
7. ALL MOUNTING HEIGHTS GIVEN IN LEGEND ARE TYPICAL, UNLESS NOTED OTHERWISE IN SPECIFICATION, SECTION 16010, OR ON THESE DRAWINGS.
8. COORDINATE W/ CONTROLS CONTRACTOR TO PROVIDE POWER FOR ALL MISCELLANEOUS CONTROL OPERATORS AND PANELS
9. CIRCUIT BREAKERS USED FOR LIGHTING CIRCUITS SHALL BE SWITCH DUTY RATED AND APPROVED FOR USE WITH H.I.D. FIXTURES. CIRCUIT BREAKERS USED FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED.
10. ALL HOME RUNS FOR LIGHTING OR POWER CIRCUITS LONGER THAN 150 FEET SHALL BE INCREASED ONE SIZE. (IE: #12 TO #10)
11. ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS SHALL BE SIZED FOR THE O.C.D. RATING FOR THAT CIRCUIT ACCORDING TO NEC ART 310 UNLESS OTHERWISE INDICATED ON THESE DRAWINGS. IN NO CASE SHALL CONDUCTORS SMALLER THAN NO. 12 AWG BE USED FOR POWER OR LIGHTING CIRCUITS.
12. PROVIDE 3/8" NYLON ROPE IN ALL EMPTY SERVICE RACEWAYS.
13. ALL SLEEVES AND OTHER PENETRATIONS THRU FIRE RATED ASSEMBLIES SHALL BE SEALED AFTER CABLE INSTALLATION WITH A FIRE RETARDANT COMPOUND.
14. ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH (2) 1-1/4" EMPTY CONDUITS BETWEEN PANEL & SUSPENDED CEILING.
15. THE CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AROUND ALL CONDUITS, CABLES AND ELECTRICAL EQUIPMENT AT ALL PARTITIONS PIERCED PER NEC 300-21 AND B.O.C.A.
16. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL SIESMIC REQUIREMENTS FOR THE INSTALLATION OF ELECTRICAL EQUIPMENT UNDER B.O.C.A.
17. GROUNDING SHALL BE PER N.E.C. ARTICLE 250, INSTALL GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS.
18. "NM" TYPE CABLE IS NOT ALLOWED.
19. ALL WIRING RUN TO A RECESSED PANEL SHALL NOT BE INSTALLED IN A CONDUIT SLEEVE TO THE PANEL BUT SHALL INSTEAD BE TERMINATED IN A WIREWAY ABOVE THE PANEL IN THE CEILING SPACE.
20. EXISTING WIRING AND ELECTRICAL DEVICES/EQUIPMENT SHALL NOT BE REUSED INCLUDING CATV, LIGHTING, POWER AND INTERCOM AND SHALL BE REMOVED UNLESS OTHERWISE NOTED. ALL REMOVED EQUIPMENT, FIXTURES, DEVICES AND THE LIKE SHALL BE TURNED OVER TO THE HOSPITAL OR DISPOSED OF AT THE HOSPITAL'S DIRECTION.
21. ALL WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL PHASING PLANS.



Neill and Gunter

ABBREVIATIONS, SYMBOLS AND NOTES

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**RENOVATIONS TO
 RICHARD'S 4th FLOOR
 INTERMEDIATE CARE
 UNITS**

MAINE MEDICAL CENTER
 Portland, Maine

Scale: NONE
 Project Number: 02-021
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**CONSTRUCTION
 DOCUMENTS**

E-1