

ELECTRICAL GENERAL NOTES (APPLY TO THE ENTIRE PROJECT):

- BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG, MINIMUM.
- LEGEND MOUNTING HEIGHTS SHALL BE TO CENTER LINE, UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS SHALL COMPLY WITH ACCESSIBILITY REQUIREMENTS. CONTRACTOR SHALL BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT PRIOR TO ROUGH-IN.
- ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE SEPARATED BY A MINIMUM OF 2'-0" FROM ANY OTHER ELECTRICAL BOX IN THE SAME WALL.
- PROVIDE INSULATED GREEN EQUIPMENT GROUNDING CONDUCTOR, SIZED PER NFPA 70 ARTICLE 250.122, TO ALL ELECTRICAL DEVICES.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CODE REQUIRED MINIMUM CLEARANCES AROUND ELECTRICAL EQUIPMENT FOR WORKING SPACE, DEDICATED SPACE, ACCESSIBILITY, AND AS OTHERWISE REQUIRED FOR MAINTENANCE AND OPERATION.
- ALL PENETRATIONS OF RATED ASSEMBLIES SHALL MAINTAIN THE INTEGRITY OF THE ASSEMBLY. PROVIDE NECESSARY SEAL PENETRATIONS TO COMPLY WITH U.L. ASSEMBLIES. COMPLY WITH DIVISION 07 SPECIFICATION "FIRESTOPPING".
- INTERIOR METAL PIPING SYSTEM(S), INCLUDING MEDICAL GAS, VACUUM, DIESEL FUEL, AND NATURAL GAS SHALL BE BONDED IN ACCORDANCE WITH NFPA 70 ARTICLE 250.104. ALL SEPARATELY DERIVED SYSTEMS SHALL BE BONDED TO BOTH INTERIOR METAL PIPING AND STRUCTURAL STEEL AT THE NEAREST AVAILABLE POINT IN THE AREA SERVED BY THE SYSTEM.
- NO MORE THAN ONE UNGROUNDED CURRENT CARRYING CONDUCTORS FROM EACH PHASE SHALL BE INSTALLED IN A SINGLE CONDUIT UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL OVERHEAD HORIZONTAL CONDUIT RUNS SHALL BE INSTALLED TIGHT TO THE STRUCTURE ABOVE IN ALL SPACES, WITH OR WITHOUT A FINISHED CEILING. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND REPRESENT THE INTENT OF THE PROJECT WORK. ALL THE FIELD CONDITIONS, OFFSETS, TRANSITIONS, ETC., ARE NOT REPRESENTED. THE CONTRACTOR IS RESPONSIBLE FOR THOROUGHLY INVESTIGATING THE SITE AND VERIFYING EXISTING CONDITIONS PRIOR TO BIDDING THE JOB. SEE PROJECT GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- TVHS, MURFREESBORO CAMPUS IS A FULL SERVICE MEDICAL CENTER OFFERING INPATIENT, OUTPATIENT, AND PSYCHIATRIC CARE. THE CONTRACTOR SHALL PLAN AND EXECUTE WORK BASED ON THIS OCCUPANCY.

- THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ENSURING THE SAFETY OF VISITORS, STAFF, AND PATIENTS (INCLUDING PSYCHIATRIC PATIENTS) IN ALL WORK AREAS THROUGHOUT THIS PROJECT. TAKE ALL NECESSARY STEPS AND PROVIDE ALL TEMPORARY MEASURES TO ELIMINATE HAZARDS AND CONTROL RISKS, INCLUDING, BUT NOT LIMITED TO, BARRIERS, BLOCKADES, FENCES, SCREENS, TAPE, SIGNAGE, RUMPS, RAILINGS, COVERS, FLAGMEN AND OTHER DIRECTING PERSONNEL.
- TEMPORARY MEASURES SHALL COMPLY WITH UFAS, OSHA, AND ANY OTHER APPLICABLE STANDARDS.
- TEMPORARY MEASURES SHALL BE COORDINATED WITH COTR AND BE IN PLACE PRIOR TO DEMOLITION OR CONSTRUCTION.
- DO NOT LEAVE TOOLS OR EQUIPMENT UNATTENDED.
- IN NON-RESTRICTED AREAS (I.E. LOCATIONS ACCESSIBLE TO PATIENTS, VISITORS, & NON-ENGINEERING STAFF), CONTRACTOR SHALL LIMIT SITE SURFACES TO MANAGEABLE QUANTITIES OF WORKING MATERIALS THAT ARE ACTIVELY BEING INSTALLED.
- CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND MAINTAINING PROPER SAFETY MEASURES AND TEMPORARY PROVISIONS. SEE SPECIFICATION 260511.
- TEMPORARY MEASURES SHALL PREVENT PATIENT/STAFF/VISITOR ACCESS TO CONSTRUCTION AREAS, ESPECIALLY WHEN CONSTRUCTION SITES ARE UNATTENDED.
- DO NOT SIGNIFICANTLY INHIBIT VISITOR/STAFF/PATIENT TRAFFIC. MAINTAIN EASILY ACCESSIBLE ROUTES TO MEDICAL CENTER SERVICES. MINIMIZE AFFECTS OF CONSTRUCTION ON WALKWAYS, ROADWAYS, SIDEWALKS, PATHWAYS, ETC.
- UNATTENDED, UNMARKED, OPEN TRENCHES, HOLES, ETC., ARE PROHIBITED.

PANEL REPLACEMENT NOTES (APPLY TO THE ENTIRE PROJECT):

- EXISTING RECESSED PANELBOARDS INSTALLED IN FINISHED SPACES SHALL HAVE THE EXISTING PANEL CABINET AND TRIM REMOVED IN ITS ENTIRETY. THE EXISTING ENCLOSURE SHALL NOT BE USED AS A JUNCTION BOX FOR EXISTING CIRCUITS. PROVIDE JUNCTION BOXES, WIREWAYS, AND PULL BOXES CONCEALED ABOVE AN ACCESSIBLE CEILING OR IN OTHER UNFINISHED SPACES AS REQUIRED TO INTERCEPT EXISTING CIRCUITS. REPAIR EXISTING FINISHES WHERE RECESSED PANELS ARE REMOVED. SEE ARCHITECTURAL SHEETS FOR ADDITIONAL REQUIREMENTS.
- EXISTING BRANCH CIRCUITS FROM 208Y/120 V PANELBOARDS THAT HAVE THE CONDUCTOR LENGTH INCREASED MORE THAN 20'-0" SHALL HAVE THE CONDUCTORS INCREASED TO THE NEXT LARGER CONDUCTOR SIZE TO THE POINT WHERE THE EXISTING CIRCUIT IS INTERCEPTED, REGARDLESS OF THE TRIP RATING OF THE OVERCURRENT PROTECTION DEVICE. WHERE AN EXISTING CIRCUIT HAS THE CONDUCTOR LENGTH INCREASED MORE THAN 50'-0", THE CONDUCTORS SHALL BE INCREASED TWO SIZES LARGER TO THE POINT WHERE THE EXISTING CIRCUIT IS INTERCEPTED, REGARDLESS OF THE TRIP RATING OF THE OVERCURRENT PROTECTION DEVICE. FOR EXAMPLE, A 20 A SINGLE-POLE BRANCH CIRCUIT INCREASED BY 25' WITH #10 AWG CONDUCTORS SHALL HAVE THE PHASE, NEUTRAL, AND EQUIPMENT GROUNDING CONDUCTORS INCREASED TO #8 AWG TO THE POINT WHERE THE EXISTING CIRCUIT IS INTERCEPTED.
- NOTIFY THE ENGINEER IF EXISTING OVERCURRENT PROTECTION EXCEEDS THE VALUE PERMITTED BY NFPA 70 ARTICLE 310 FOR THE CONDUCTOR SIZE. INCLUDE A DETAILED DESCRIPTION OF THE CIRCUIT, INCLUDING THE LOAD(S) SERVED, THE EXISTING CONDUCTOR SIZE, AND THE EXISTING OVERCURRENT PROTECTION TRIP RATINGS.
- ALL PROPOSED ELECTRICAL ROOMS SHALL BE LAID OUT TO MAXIMIZE WALL AND FLOOR SPACE FOR FUTURE ELECTRICAL EQUIPMENT. PANELS SHALL BE INSTALLED A MINIMUM OF 6" FROM ADJACENT EMPTY WALLS TO PERMIT FUTURE EQUIPMENT TO BE INSTALLED ON THE ADJACENT WALL WITHOUT VIOLATING THE WORKING SPACE OF THE PANEL, EXCEPT WHERE A DOOR OR OTHER OBSTRUCTION WOULD PROHIBIT INSTALLATION OF EQUIPMENT IN THE WORKING SPACE. PANELS SHALL BE INSTALLED ADJACENT TO EACH OTHER, LEAVING NO MORE THAN 2" BETWEEN ADJACENT PANELS UNLESS REQUIRED BY THE MANUFACTURER FOR MAINTENANCE TO ALLOW THE MAXIMUM FUTURE SPACE FOR ELECTRICAL EQUIPMENT. SPACE FOR FUTURE EQUIPMENT SHALL BE ARRANGED TO BE CONTIGUOUS TO ALLOW THE MAXIMUM FLEXIBILITY FOR FUTURE EQUIPMENT.
- THE CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS FOR ALL SPACES WHERE ELECTRICAL EQUIPMENT IS INSTALLED UNDER THIS PROJECT. THE COORDINATION DRAWINGS SHALL BE NO LESS THAN 1/4"=1'-0" SCALE AND SHALL INDICATE ALL EQUIPMENT TO BE INSTALLED, UNDER ALL DIVISIONS OF THE SPECIFICATIONS, IN THE SPACE AT THE ACTUAL SIZE AS INDICATED IN THE EQUIPMENT SUBMITTALS. DRAWINGS SHALL ALSO INDICATE ANY FOREIGN SYSTEMS (THOSE NOT SERVING THE ELECTRICAL ROOM) IN THE SPACE THAT IS NOT POSSIBLE TO BE RELOCATED OR DEMOLISHED. SUBMITTALS FOR ELECTRICAL EQUIPMENT WILL BE REJECTED IF NOT ACCOMPANIED BY COORDINATION DRAWINGS.
- ALL REPLACEMENT PANELS SHALL BE PROVIDED WITH A NEW FEEDER AND BE READY TO BE ENERGIZED PRIOR TO DEMOLITION OF EXISTING PANEL TO MINIMIZE DOWNTIME FOR THE LOADS SERVED. WHERE THE EXISTING FEEDER ROUTE IS INACCESSIBLE AND NO ALTERNATE ROUTE EXISTS FOR A NEW FEEDER, THE EXISTING FEEDER SHALL BE INTERCEPTED IN AN ACCESSIBLE LOCATION TO FEED THE REPLACEMENT PANELBOARD. OBTAIN APPROVAL FROM THE COTR WHERE EXISTING FEEDERS ARE TO BE RE-USED. PROVIDE A TEMPORARY FEED FROM THE REPLACEMENT PANELBOARD TO THE EXISTING PANELBOARD IF REQUIRED TO KEEP EXISTING LOADS IN SERVICE DURING REPLACEMENT.
- WHERE AN EXISTING FEEDER IS INDICATED TO BE RE-USED FOR A PANEL THAT IS INDICATED AS BEING REPLACED, EXTEND THE EXISTING FEEDER TO THE PROPOSED PANEL'S LOCATION. PROVIDE A JUNCTION BOX IN AN ACCESSIBLE LOCATION NOT IN FINISHED SPACES FOR SPLICE. EXTENSION OF FEEDERS ARE NOT INDICATED ON THE DRAWINGS, WHERE THE SOURCE PANEL IS ALSO BEING REPLACED, SPLICE THE EXISTING FEEDER IN ONLY ONE LOCATION. FEEDERS SHALL NOT BE SPLICED AT BOTH ENDS.

REQUIREMENTS FOR POWER INTERRUPTIONS (APPLY TO THE ENTIRE PROJECT):

- POWER INTERRUPTIONS**
- THE CONTRACTOR SHALL PREPARE A DETAILED POWER PHASING/SEQUENCE PLAN AND SUBMIT THE PLAN TO THE COTR FOR WRITTEN APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK. NO POWER SHALL BE INTERRUPTED BY THE CONTRACTOR (OR AT THE CONTRACTOR'S DIRECTION) WITHOUT OBTAINING WRITTEN APPROVAL FROM THE COTR AT LEAST 14 DAYS IN ADVANCE. APPROVAL FOR EACH OUTAGE SHALL BE REQUESTED IN WRITING AT LEAST 21 DAYS IN ADVANCE. EACH REQUEST SHALL INCLUDE A DESCRIPTION OF THE WORK TO BE PERFORMED, THE ESTIMATED DURATION OF THE OUTAGE, THE AREAS AND LOADS AFFECTED BY THE OUTAGE, AND ANY OTHER INFORMATION THAT MAY BE REQUIRED BY THE COTR TO EVALUATE THE REQUEST. NO SERVICE OR CIRCUIT SHALL BE DE-ENERGIZED UNLESS THE CONTRACTOR HAS TRACED THE CIRCUIT TO VERIFY THAT THE CIRCUITS ACTUALLY SERVE THE LOADS AS INDICATED ON THE OUTAGE REQUEST. IMMEDIATELY PRIOR TO EACH OUTAGE, THE CONTRACTOR SHALL CONFIRM THAT THE AFFECTED AREAS HAVE RECEIVED ADEQUATE NOTICE OF THE OUTAGE.
 - PROVIDE ALL NECESSARY MATERIALS AND LABOR TO PROVIDE TEMPORARY POWER TO DEVICES AFFECTED BY THE POWER INTERRUPTION TO MINIMIZE THE INTERRUPTION ON ESSENTIAL CIRCUITS. TEMPORARY POWER DEVICES INCLUDE, BUT ARE NOT LIMITED TO, EXTENSION CORDS, TEMPORARY LIGHTING FIXTURES, CIRCUIT BREAKERS, PANELBOARDS AND NECESSARY MATERIALS FOR CONNECTIONS TO ALTERNATE POWER SOURCES FOR FEEDERS.
 - REPLACEMENT PANELS SHALL BE READY TO BE ENERGIZED PRIOR TO DEMOLITION OF EXISTING PANELS. CIRCUITS SHALL BE RE-CIRCUITED TO THE REPLACEMENT PANEL IN A MANNER TO MINIMIZE THE DURATION OF THE OUTAGE.
 - CONTRACTOR SHALL NOT SHUTDOWN OR INTERRUPT ANY SERVICE WITHOUT THE PRESENCE AND ON THE SPOT APPROVAL OF THE COTR AND/OR HIS SPECIFIED REPRESENTATIVE.
 - ONLY ONE (1) PRIMARY (4160 V) CIRCUIT SHALL BE PERMITTED TO BE SHUT DOWN AT A TIME.
 - WHenever a source of power to a building is interrupted, including the normal service or the emergency generator, the contractor shall furnish a temporary portable generator set for the duration of the outage as an alternate source. The portable generator set shall be provided as a backup to the permanently installed emergency generator when the normal service is interrupted.
 - RECORD THE EXISTING PHASE SEQUENCE PRIOR TO DE-ENERGIZING ANY FEEDERS OR BRANCH CIRCUITS. PRIOR TO RE-ENERGIZING ANY FEEDERS OR BRANCH CIRCUITS, CONFIRM, IN THE PRESENCE OF THE COTR'S REPRESENTATIVE, THAT THE PHASE SEQUENCE MATCHES THE PRIOR SEQUENCE.

- WORK OUTSIDE OF NORMAL WORK HOURS**
- TO THE FULLEST EXTENT POSSIBLE, ALL AREAS OF THE FACILITY MUST REMAIN IN FULL FUNCTIONAL OPERATION THROUGHOUT THE DURATION OF THE WORK. WHERE OUTAGES ARE REQUIRED AND APPROVED IN ADVANCE, THE CONTRACTOR SHALL PROVIDE WORK FORCES AS REQUIRED TO MINIMIZE THE OUTAGE DURATION AND IMPACT ON THE FACILITY AND MAKE EVERY EFFORT TO MINIMIZE SHUTDOWNS. SPECIFIC REQUIREMENTS TO ACHIEVE THIS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING EXAMPLES:
 - MULTIPLE WORK CREWS SHALL BE REQUIRED TO MAKE TERMINATIONS SIMULTANEOUSLY ON BOTH ENDS OF A REPLACEMENT FEEDER.
 - LARGE OR MULTIPLE WORK CREWS SHALL BE REQUIRED TO SIMULTANEOUSLY PULL CABLE, INSTALL EQUIPMENT, AND MAKE TERMINATIONS ON MAJOR EQUIPMENT REPLACEMENTS.
 - WORK SHALL BE REQUIRED AT NIGHT AND ON WEEKENDS TO AVOID OR MINIMIZE THE IMPACT OF AN OUTAGE ON FACILITY OPERATIONS.
 - SCHEDULED AND APPROVED WORK MAY BE CANCELED AT ANY TIME BY THE FACILITY IF NECESSARY TO MEET THE CLINICAL OR OPERATIONAL NEEDS OF THE FACILITY, AND THE CONTRACTOR SHALL BE REQUIRED TO RESCHEDULE THE WORK.
 - ALL MAJOR INTERRUPTIONS SHALL BE PERFORMED AFTER NORMAL WORKING HOURS DURING LOW-USE OR LOW-OCCUPANCY TIMES (NIGHTS AND WEEKENDS). AN INTERRUPTION WILL BE CONSIDERED "MAJOR" IF IT PREVENTS NORMAL MEDICAL CENTER OPERATIONS, AFFECTS MULTIPLE MEDICAL CENTER USERS OR FUNCTIONS, REQUIRES RELOCATION OF SERVICES OR PERSONNEL, HAS A DURATION OF MORE THAN 15 MINUTES, REQUIRES SIGNIFICANT COORDINATION OR ADVANCED NOTICE, OR IS NOT LIMITED TO A SMALL SPACE.
 - ALL COSTS ASSOCIATED WITH THE ABOVE REQUIREMENTS SHALL BE INCLUDED IN THE COST OF THE WORK, AND NO ADDITIONAL REQUESTS FOR COMPENSATION RELATED TO SIZE OF WORK FORCE, HOURS OF REQUIRED WORK, OR RESCHEDULED WORK WILL BE GRANTED.

ELECTRICAL DEMOLITION NOTES (APPLY TO THE ENTIRE PROJECT):

- EXISTING EQUIPMENT, SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUITS, ETC., SHOWN ON PLANS TO BE REMOVED COMPLETELY: CUT/CAP CONDUITS AT THE SOURCE AND REMOVE CONDUIT, DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY.
- REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE, IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.
- MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

FIRE ALARM GENERAL NOTES (APPLY TO THE ENTIRE PROJECT):

- FIRE ALARM CONDUCTORS AND CABLES SHALL BE ENCLOSED IN METAL CONDUIT.
- PROVIDE FIRE ALARM CONNECTIONS TO HVAC SYSTEM CONTROLS AND DEVICES FOR PROPER OPERATION, INCLUDING SHUTDOWN. SEE MECHANICAL DOCUMENTS FOR QUANTITIES, LOCATIONS, AND ADDITIONAL REQUIREMENTS. UPON DETECTION OF FIRE IN ANY AREA OF THE BUILDING (SMOKE, HEAT, OR SPRINKLER FLOW), THE FIRE ALARM SYSTEM SHALL CAUSE THE AIR HANDLER(S) SERVING THE SMOKE COMPARTMENT WHERE THE ALARM INITIATED TO SHUT DOWN, THE EXHAUST FANS ASSOCIATED WITH THAT SMOKE COMPARTMENT TO SHUT DOWN, AND ALL SMOKE DAMPERS ASSOCIATED WITH THOSE FANS TO CLOSE.
- FIRE ALARM CONTROL AND MONITORING, INCLUDING AIR HANDLER SHUTDOWN AND DAMPER CLOSURE SHALL BE ACCOMPLISHED USING SUPERVISED FIRE ALARM WIRING TO WITHIN THREE FEET OF THE DEVICE BEING CONTROLLED OR MONITORED. FOR THE PURPOSE OF THIS MEASUREMENT ON AIR HANDLERS, THE MOTOR STARTER OR VFD IS THE DEVICE BEING CONTROLLED.
- COORDINATE LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS WITH MECHANICAL SYSTEMS. DETECTORS SHALL NOT BE IN DIRECT AIR FLOW OR WITHIN 3 FEET OF SUPPLY DIFFUSERS.
- PROVIDE FULL SMOKE DETECTOR COVERAGE FOR ALL PROPOSED NEW ELECTRICAL ROOMS UNDER THIS PROJECT. DEVICES MAY NOT BE SHOWN ON FLOOR PLANS. DETECTORS SHALL BE AN EXTENSION OF THE EXISTING ADDRESSABLE SIMPLEX FIRE ALARM SYSTEM SERVING THE BUILDING.
- PROVIDE HEAT DETECTORS IN PROPOSED GENERATOR ENCLOSURES. CONNECT TO FIRE ALARM CONTROL PANEL OF THE BUILDING FED BY THE GENERATOR. PROVIDE A TRANSIENT PROTECTION CUBE WHERE CONDUCTORS ENTER THE BUILDING. PROVIDE A DEDICATED 1" CONDUIT WITH POWER FEEDERS FOR FIRE ALARM USE.

ESSENTIAL SYSTEM BRANCH SEPARATION

- EXISTING ESSENTIAL SYSTEM LOADS IN BUILDINGS 4, 5, 6, AND 107 ARE NOT SEPARATED INTO SEPARATE BRANCHES AS REQUIRED BY NFPA 70 ARTICLE 517 AND NFPA 99. BRANCH CIRCUITS BEING RE-CIRCUITED TO NEW ESSENTIAL SYSTEM PANELS SHALL BE CIRCUITED TO THE APPROPRIATE BRANCH OF THE ESSENTIAL SYSTEM IN ACCORDANCE WITH NFPA 70 ARTICLE 517 AND NFPA 99. BASED UPON THE FUNCTIONS THEY SERVE, THE FOLLOWING BRANCHES SHALL SERVE THE INDICATED FUNCTIONS FOR EXISTING LOADS.
 - LIFE SAFETY BRANCH: EXISTING BRANCH CIRCUITS SERVING THE FOLLOWING FUNCTIONS SHALL BE CIRCUITED TO THE LIFE SAFETY BRANCH:
 - EGRESS ILLUMINATION AND EXIT SIGNS
 - HOSPITAL COMMUNICATIONS SYSTEMS USED FOR ISSUING INSTRUCTION DURING EMERGENCY CONDITIONS
 - ELEVATOR CAB LIGHTING, CONTROL, COMMUNICATIONS, AND SIGNAL SYSTEMS
 - ELECTRICALLY OPERATED DOORS USED FOR BUILDING EGRESS
 - FIRE ALARMS
 - CRITICAL BRANCH: EXISTING BRANCH CIRCUITS SERVING THE FOLLOWING FUNCTIONS SHALL BE CIRCUITED TO THE CRITICAL BRANCH:
 - TASK ILLUMINATION AND SELECT RECEPTACLES IN THE FOLLOWING:
 - PATIENT CARE ROOMS
 - MEDICATION PREPARATION AREAS
 - PHARMACY DISPENSING AREAS
 - NURSE'S STATIONS
 - SPECIALIZED PATIENT CARE TASK ILLUMINATION AND RECEPTACLES
 - NURSE CALL SYSTEMS
 - BLOOD, BONE, AND TISSUE BANKS
 - TELEPHONE EQUIPMENT ROOMS AND CLOSETS
- ALL WIRING FOR THE LIFE SAFETY BRANCH AND THE CRITICAL BRANCH SHALL BE IN SEPARATE RACEWAYS FROM ALL WIRING NOT ON THE SAME BRANCH. EXISTING BRANCH CIRCUITS SHARING RACEWAYS WITH OTHER BRANCHES OR THE NORMAL SYSTEM SHALL NOT BE CIRCUITED TO THE CRITICAL OR LIFE SAFETY BRANCH.
- ALL REMAINING FUNCTIONS NOT INDICATED ABOVE SHALL REMAIN CIRCUITED TO THE EQUIPMENT SYSTEM. REFER TO NFPA 70 ARTICLE 517 AND NFPA 99 FOR REQUIREMENTS.

| LUMINAIRE AND LAMPING SCHEDULE | | | | | | |
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| TYPE | MANUFACTURER | CATALOG NO. | VOLTS | LAMPS | MOUNTING | REMARKS |
| A2 | ACUTY- LITHONIA NOTE L11 | 2SP8 G * FW A12125 ** | 120/277 | 2 F32T8 | RECESSED/GRID | 2'X4' TROFFER, 2 LAMPS, 0.125" THICK A12 ACRYLIC LENS |
| A3 | ACUTY- LITHONIA NOTE L11 | 3SP8 G * FW A12125 ** | 120/277 | 3 F32T8 | RECESSED/GRID | 2'X4' TROFFER, 3 LAMPS, 0.125" THICK A12 ACRYLIC LENS |
| B2 | ACUTY- LITHONIA NOTE L11 | 2SP8 G * FW A12125 ** | 120/277 | 2 F17T8 | RECESSED/GRID | 2'X2' TROFFER, 2 LAMPS, 0.125" THICK A12 ACRYLIC LENS |
| B3 | ACUTY- LITHONIA NOTE L11 | 2SP8 G * FW A12125 ** | 120/277 | 3 F17T8 | RECESSED/GRID | 2'X2' TROFFER, 3 LAMPS, 0.125" THICK A12 ACRYLIC LENS |
| G | LITHONIA NOTE L11 | AF10 232 * HC WGAFPV ELK2 | 120/277 | 2 F32T8 | SURFACE | 4' FLUORESCENT STRIP, WITH WIRE GUARD |
| EM | LITHONIA NOTE L11 | ELMC SD | 277 | FURNISHED W/FIXTURE | SURFACE/WALL | EMERGENCY BATTERY LIGHT, SELF DIAGNOSTIC PROVIDE AMN OF TWO IN EVERY GENERATOR ENCLOSURE & TRANSFER SWITCH LOCATOR |
| WPL4 | HUBBELL - BEACON | TRV-D36G-90LUNIT4PEQWMBY | 120/277 | 36 LED ENGINE 4500K 6100LM | SURFACE/WALL | EXTERIOR BUILDING MOUNTED LIGHT WITH METAL PHOTOELECTRIC CONTROL FORWARD THROW TYPE 4 DISTRIBUTION 22" MINIMUM AMBIENT TEMPERATURE DRAINER EQUAL TO EXISTING FIXTURES, SUBSTITUTIONS REQUIRE APPROVAL FROM COTR. |
| X1 | LITHONIA NOTE L11 | LES 1 R | 120/277 | RED LED | SURFACE | EXIT SIGN, SINGLE FACE |
| X2 | LITHONIA NOTE L11 | LES 2 R | 120/277 | RED LED | SURFACE | EXIT SIGN, DOUBLE FACE |

- LIGHTING FIXTURE SCHEDULE NOTES:**
- COORDINATE MOUNTING METHOD FOR CEILING MOUNTED FIXTURES (E.G. GRID VS. FLANGE) WITH THE CEILING MATERIAL AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
 - COORDINATE MOUNTING LOCATION FOR WALL MOUNTED FIXTURES WITH ARCHITECTURAL PLANS, SECTIONS, DETAILS, AND ELEVATIONS.
 - ALL 1'X4' FIXTURES ARE TYPE "G" AND ALL 2'X4' ARE TYPE "AS" UNLESS NOTED OTHERWISE.
 - FIXTURE TYPES MAY APPEAR IN THE SCHEDULE THAT ARE NOT USED ON THE PLANS OR REQUIRED FOR THE WORK. SEE FLOOR PLAN AND OTHER DRAWINGS FOR FIXTURE QUANTITIES AND LOCATIONS.
 - ALL LINEAR LAMP FIXTURES WITH 3, 4, OR 6 LAMPS SHALL HAVE MULTIPLE BALLASTS FOR DUAL SWITCHING AS INDICATED IN ELECTRICAL GENERAL NOTES. A SINGLE BALLAST MAY BE PROVIDED ONLY FOR FIXTURES THAT ARE NOT INDICATED AS DUAL SWITCHED ON THE FLOOR PLANS.
 - ALL SINGLE FACE EXIT SIGNS ARE TYPE "X1" UNLESS NOTED OTHERWISE. ALL DUAL FACE EXIT SIGNS ARE TYPE "X2" UNLESS OTHERWISE NOTED.
 - ALL FLUORESCENT LAMPS SHALL HAVE A COLOR TEMPERATURE OF 3500K AND A MINIMUM CRI OF 90 UNLESS NOTED OTHERWISE.
 - WHERE A FIXTURE TYPE HAS MULTIPLE VOLTAGES INDICATED, PROVIDE A UNIVERSAL VOLTAGE BALLAST THAT WILL ACCEPT ANY VOLTAGE BETWEEN THE NOMINAL VOLTAGES INDICATED.
 - ALL FLUORESCENT BALLASTS NOT ON THE LIFE SAFETY BRANCH OF THE EMERGENCY SYSTEM SHALL UTILIZE PROGRAM RAPID START METHOD UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC WITH LESS THAN 10% TOTAL HARMONIC DISTORTION.
 - ALL FIXTURES WITH LINEAR FLUORESCENT LAMPS SHALL BE PROVIDED WITH A BALLAST DISCONNECTING MEANS IN ACCORDANCE WITH NFPA 70 ARTICLE 410.73 (G).
 - MANUFACTURER INDICATED IS THE BASIS OF DESIGN. OTHER MANUFACTURERS OFFERING EQUAL PRODUCTS MAY BE PROVIDED. SEE SPECIFICATIONS FOR REQUIREMENTS.

| Revisions | Date |
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Tennessee Valley Healthcare System



Project Title : UPGRADE ELECTRICAL DISTRIBUTION PHASE 3

Drawing Title : ELECTRICAL LUMINAIRE SCHEDULE AND NOTES

Approved By : _____ Location : ALVIN C. YORK CAMPUS MURFREESBORO, TN

Building Number : N/A Checked By : R. STR. Drawn By : R. SULL.

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Department of Veterans Affairs

