

GENERAL NOTES:

- REFER TO ARCHITECTURAL REFLECTED CEILING ELEVATION PLANS FOR EXACT LOCATION AND MOUNTING LOCATIONS OF ALL LIGHT FIXTURES.
- REFER TO THE ARCHITECTURAL PLANS AND ELEVATIONS, INCLUDING MILLWORK ELEVATIONS, FOR DETAILED LOCATIONS OF ELECTRICAL TELEPHONE/COMMUNICATION AND POWER OUTLETS.
- PRIOR TO ROUGH IN, COORDINATE THE INSTALLATION OF EQUIPMENT WITH THE MANUFACTURER'S INSTALLATION AND MAINTENANCE REQUIREMENTS.
- ALL RACEWAYS AND CABLES ARE TO CONTAIN A GREEN INSULATED COPPER GROUNDING CONDUCTOR.
- RACEWAYS ARE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED. HACHURE OR CALLOUT INDICATE NUMBER OF CIRCUIT CONDUCTORS, INCLUDING NEUTRALS, WHEN MORE THAN TWO CIRCUIT CONDUCTORS ARE REQUIRED.
- MULTI-WIRE CIRCUITS SHALL NOT BE SUBSTITUTED FOR SINGLE CIRCUITS. A SEPARATE NEUTRAL SHALL BE RUN FOR EACH CIRCUIT.
- 20A, 120V HOMERUNS BETWEEN 75 FEET AND 150 FEET IN LENGTH ARE TO BE #10 CONDUCTORS. 20A, 120V HOMERUNS BETWEEN 150 FEET AND 250 FEET IN LENGTH ARE TO BE #8 CONDUCTORS. SIMILAR FOR 277V, 480V TO COMPLY WITH NEC.
- CONDUCTOR DERATING FOR TEMPERATURE SHALL BE APPLIED PER N.E.C. 310-15.
- THE MAXIMUM NUMBER OF CURRENT CARRYING CONDUCTORS IN ANY ONE CONDUIT SHALL BE LIMITED TO SIX. IN LIGHTING CIRCUITS FOR FLUORESCENT FIXTURES, THE NEUTRAL SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR.
- IF CIRCUITS SHOWN ARE NOT AVAILABLE FOR USE, USE NEXT AVAILABLE SPARE STARTING AT CIRCUIT 42 AND WORKING BACKWARDS. PROVIDE AS-BUILT DOCUMENTATION.
- CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND COORDINATE WITH REQUIREMENTS INDICATED TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED TO FACILITATE NEW CONSTRUCTION AND INCLUDE ALL SUCH WORK IN HIS BID. NO ADDITIONAL FUNDS WILL BE AUTHORIZED FOR ANY EXTRA WORK OR MATERIAL NECESSARY DUE TO THE FAILURE OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS OR FOR LACK OF COORDINATION BETWEEN TRADES.
- CONTRACTOR SHALL VISIT SITE TO VERIFY IF EXISTING CONDITIONS ARE SHOWN ACCURATELY. NOTIFY ARCHITECT OF ANY DEVIATIONS.
- OUTLET BOXES JUNCTION BOXES SHALL NOT BE INSTALLED IN A MANNER SIDE BY SIDE OR BACK TO BACK THAT WILL IMPACT SMOKE TIGHT BARRIERS, SOUND TRANSITION, ETC. PER AHJ OR LOCAL CODES.
- PROVIDE TENMAT FIRE RATED COVERS OR EQUIVALENT ON ALL LIGHT FIXTURES INSTALLED IN FIRE RATED CEILING. REFER TO ARCHITECTURAL RCP AND LIFE SAFETY PLAN FOR CEILING INFORMATION.
- ANY LIGHT FIXTURE INSTALLED IN INSULATION SHALL BE IC RATED OR SHALL HAVE A PERMANENT BARRIER INSTALLED AROUND IT TO MAINTAIN 3 INCHES OF AIR SPACE ON ALL SIDES AND TOP OF FIXTURE OR THE DISTANCE RECOMMENDED BY MANUFACTURER, WHICHEVER IS GREATER.
- COORDINATE LIGHT FIXTURE MOUNTING HARDWARE WITH ARCHITECTURAL RCP PRIOR TO ORDERING.

GENERAL DEMOLITION NOTES:

- REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES PRIOR TO ROUGH-IN.
- SEE THE ARCHITECT'S GENERAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND LIMIT OF CONSTRUCTION.
- THE PLANS DO NOT SHOW ALL THE EQUIPMENT WHICH IS TO BE DEMOLISHED.
- REMOVE THE EXISTING LIGHTING FIXTURES WHERE NOTED. RETAIN THE BRANCH CIRCUIT WIRING AND RACEWAY TO BE REUSED.
- REMOVE THE EXISTING WIRING DEVICES WHERE NOTED. RETAIN THE BRANCH CIRCUIT WIRING AND RACEWAY TO BE REUSED.
- REMOVE ANY ABANDONED RACEWAY, WIRING, AND DATA AND COMMUNICATION WIRING BACK TO ITS SOURCE, WHICH ARE LOCATED WITHIN SCOPE OF WORK AREA.
- MAINTAIN/RESTORE ANY EXISTING CIRCUITS SERVING DEVICES WHICH MAY BE ON THE SAME CIRCUIT AS DEVICES INDICATED TO BE REMOVED.
- EXISTING EQUIPMENT MAY NOT BE REMOVED FROM THE PREMISES WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE ARCHITECT. THE FINAL DISPOSITION OF DEMOLISHED EQUIPMENT SHALL BE DETERMINED BY FACILITY STAFF.

LINE TYPE LIST

TYPE	DESCRIPTION
---	DEMOLITION
---	EXISTING
---	NEW WORK

SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\$	SINGLE POLE SWITCH	⬇	EMERGENCY SIMPLEX RECEPTACLE	▼	TELEPHONE OUTLET
\$ <sup>F</sup>	CEILING FAN SPEED/LIGHT SWITCH	⬇	EMERGENCY DUPLEX RECEPTACLE	▼	WALL MOUNTED TELEPHONE OUTLET
\$ <sup>3</sup>	THREE WAY SWITCH	⬇	EMERGENCY QUAD RECEPTACLE	▼	DATA OUTLET
\$ <sup>4</sup>	FOUR WAY SWITCH	⬇	FLOOR MOUNTED RECEPTACLE	▼	TELEPHONE/DATA OUTLET
\$ <sup>K</sup>	KEYED SWITCH	⬇	SPECIAL PURPOSE RECEPTACLE	▼	FLOOR MOUNTED DATA OUTLET
\$ <sup>D</sup>	WALL DIMMER SWITCH	⬇	DROP CORD RECEPTACLE	▼	FLOOR MOUNTED TELEPHONE OUTLET
\$ <sup>LV</sup>	LOW VOLTAGE SWITCH	⬇	SURFACE MOUNTED RACEWAY	▼	SPEAKER (CEILING MOUNTED)
\$ <sup>V</sup>	SPEAKER VOLUME CONTROL SWITCH	⬇	FLOOR BOX	▼	MICROPHONE OUTLET
\$ <sup>P</sup>	SWITCH WITH PILOT LIGHT	⬇	JUNCTION BOX	▼	TELEVISION OUTLET COORDINATE MTG
\$ <sup>T</sup>	TIMER SWITCH	⬇	JUNCTION BOX WALL MOUNTED	▼	FIRE ALARM STATION
⬇	OCCUPANCY CEILING SENSOR	⬇	HARDWIRE CONNECTION TO ELECTRIFIED FURNITURE SYSTEM	▼	FIRE ALARM CONTROL PANEL
⬇	OCCUPANCY WALL MOUNTED SENSOR	⬇	TELEPHONE/DATA CONNECTION TO ELECTRIFIED FURNITURE SYSTEM	▼	FIRE ALARM ANNUNCIATION PANEL
a, b, c	LOWER CASE LETTERS INDICATE SWITCH DESIGNATION	⬇	TELE-POWER POLE	▼	GENERATOR ANNUNCIATION PANEL
⬇	FLUORESCENT LIGHT FIXTURE	⬇	EMERGENCY POWER OFF	▼	NURSE CALL CONTROL PANEL
⬇	FLUORESCENT STRIP FIXTURE	⬇	GENERATOR	▼	NURSE CALL PATIENT STATION
⬇	RECESSED DOWNLIGHT	⬇	PANELBOARD	▼	NURSE CALL EMERGENCY STATION
⬇	WALL MOUNTED LIGHT FIXTURE	⬇	TRANSFORMER	▼	NURSE CALL DUTY STATION
⬇	WALL WASHER	⬇	CONDUIT AND HOMERUN TO PANELBOARD	▼	NURSE CALL MASTER
⬇	FIXTURE FED BY LIFE SAFETY BRANCH	⬇	GROUND FAULT METERING	▼	NURSE CALL STAFF STATION
⬇	EXIT LIGHT FIXTURE	⬇	UNIT HEATER	▼	NURSE CALL LOCATOR STATION
⬇	WALL MOUNTED EXIT LIGHT FIXTURE	⬇	BUS DUCT TAP CIRCUIT BREAKER	▼	NURSE CALL CODE BLUE
⬇	EMERGENCY BATTERY PACK	⬇	ENCLOSED CIRCUIT BREAKER	▼	NURSE CALL DOME LIGHT
⬇	NIGHT LIGHT	⬇	ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP	▼	NURSE CALL/BED COMMUNICATIONS INTERFACE OUTLET
⬇	UNDERCABINET LIGHT	⬇	DISCONNECT/SAFETY SWITCH UNFUSED, FUSED	▼	INTERCOM OUTLET
⬇	POLE LIGHT	⬇	COMBINATION MAGNETIC MOTOR STARTER/SAFETY SWITCH	▼	INTERCOM MASTER
⬇	GROUND	⬇	MAGNETIC MOTOR STARTER	▼	SECURITY CAMERA
⬇	GROUND ROD	⬇	MANUAL MOTOR STARTER	▼	ELECTRIC STRIKE
⬇	MOUNTED ABOVE COUNTER	⬇	DUPLEX RECEPTACLE	▼	KEY PAD
⬇	SIMPLEX RECEPTACLE	⬇	QUAD RECEPTACLE	▼	KEY INTERLOCK
⬇	DUPLEX RECEPTACLE	⬇	GROUND FAULT INTERRUPTER RECEPTACLE	▼	AUTODOOR PUSH PAD BUTTON, WOND OR PLATE
⬇	QUAD RECEPTACLE	⬇	ISOLATED GROUND RECEPTACLE	▼	FIRE ALARM DOOR HOLD OPENING DEVICE
⬇	GROUND FAULT INTERRUPTER RECEPTACLE	⬇	TAMPER RESISTANT RECEPTACLE	▼	TIME CLOCK
⬇	ISOLATED GROUND RECEPTACLE	⬇	RECEPTACLE FOR TV COORDINATE MTG	▼	PHOTOCELL ELECTRIC
⬇	EXHAUST AIR GRILLE	⬇		▼	CONNECT TO EXISTING
⬇	HVAC SUPPLY DIFFUSER	⬇		▼	SPRINKLER HEAD
⬇	HVAC RETURN DIFFUSER	⬇		▼	SMOKE DETECTOR

NOTE: ALL SYMBOLS ARE NOT NECESSARILY USED ON THESE DRAWINGS. REFER TO THE ARCHITECTS DRAWINGS FOR ADDITIONAL SYMBOLS.

ELECTRICAL ABBREVIATIONS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPS OR AMPERE	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MAFC	MAKE ALL FINAL CONNECTIONS
AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AHU	AIR HANDLING UNIT	MCC	MOTOR CONTROL CENTER
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT OR METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUG ONLY
BLDG	BUILDING	KW	KILOWATT
C	CONDUIT	MTD	MOUNTED
CB	CIRCUIT BREAKER	MTG	MOUNTING
CKT	CIRCUIT	N	NEUTRAL
CT	CURRENT TRANSFORMER	NC	NORMALLY CLOSED
CUH	CABINET UNIT HEATER	NCAP	NURSE CALL ANNUNCIATOR PANEL
DWG	DRAWINGS	NCCP	NURSE CALL CONTROL PANEL
ECB	ENCLOSED CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
EF	EXHAUST FAN	NFSS	NON-FUSED SAFETY SWITCH
ETR	EXISTING TO REMAIN	NO	NORMALLY OPEN
EWC	ELECTRIC WATER COOLER	P	POLE OR POLES
EWB	ELECTRIC WATER HEATER	PTS	PNEUMATIC TUBE SYSTEM
EX	EXISTING	PVC	POLYVINYL CHLORIDE
F	FUSE	RAP	REMOTE ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL	RECEPT	RECEPTACLE
FCU	FAN COIL UNIT	ST	SHUNT TRIP
FLA	FULL LOAD AMP	SWBD	SWITCHBOARD
FSS	FUSED SAFETY SWITCH	SWGR	SWITCHGEAR
GFI	GROUND FAULT INTERRUPTER	TTB	TELEPHONE TERMINAL BOARD
GRD	GROUND	TYP	TYPICAL
H-O-A	HAND-OFF-AUTOMATIC	UON	UNLESS OTHERWISE NOTED
HID	HIGH INTENSITY DISCHARGE	V	VOLTS OR VOLTAGE
HP	HORSE POWER	W	WIRE
HPS	HIGH PRESSURE SODIUM	WI	WITH
HZ	HERTZ	WP	WEATHERPROOF
IMC	INTERMEDIATE METAL CONDUIT	XFMR	TRANSFORMER
IG	ISOLATED GROUND	XP	EXPLOSION PROOF
JB	JUNCTION BOX	#	NUMBER
KV	KILOVOLT	Ø	PHASE
KVA	KILOVOLT-AMPERE		

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NOTES

GENERAL

- COMPLETED INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE FEDERAL, CODES, STATE AND LOCAL ORDINANCES AND THE SPECIFICATIONS, IF ANY CONFLICTS OCCUR, THE MOST STRINGENT SHALL APPLY.
- PIPING AND DUCT LAYOUT IS ONLY SCHEMATIC. EXACT LOCATION OF PIPES AND DUCTS SHALL BE COORDINATED WITH BUILDING STRUCTURE, AND WORK OF OTHER CONTRACTORS PRIOR TO START OF ANY CONSTRUCTION OR DEMOLITION.
- LOCATE ROOM THERMOSTATS, HUMIDISTAT, AND TEMPERATURE AND HUMIDITY SENSORS 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY ARCHITECT WHERE DIMENSION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
- COORDINATE ARCHITECTURAL LOCATIONS OF DIFFUSERS, GRILLES, ETC. WITH REFLECTED CEILING GRID AND LIGHTING LAYOUT.

DUCTWORK

- RUN ALL DUCTS LEVEL UNLESS OTHERWISE NOTED.
- FLEXIBLE RUNOUTS TO DIFFUSERS AND GRILLES TO BE MAXIMUM OF 5 FEET IN LENGTH. FLEX SHALL BE STRETCHED STRAIGHT WITHOUT SAGS. PROVIDE HANGER AT MID POINT. USE NYLON STRAP TO FASTEN INNER SLEEVE TO TAKE-OFF. DUCT TAPE IS NOT ACCEPTABLE.
- DUCT TAPE IS NOT ACCEPTABLE FOR VAPOR BARRIER SEAMS.
- OFFSET DUCTS INTO JOIST SPACE FOR CLEARANCE WHERE SPACE ABOVE CEILING IS NOT SUFFICIENT FOR DUCTS TO CROSS OTHER DUCTS OR WORK OF OTHER CONTRACTORS.

PIPING

- SUPPORT ALL STEEL PIPE AT INTERVALS OF NOT MORE THAN 10'-0", COPPER PIPE AT INTERVALS OF NOT MORE THAN 8'-0".
- PIPING RUNOUTS TO TERMINAL UNITS ARE 3/4" UNLESS OTHERWISE NOTED ON PIPING PLAN.

HVAC GENERAL DEMOLITION NOTES

- DEMOLITION SHALL EXTEND TO POINTS OF CONNECTION WITH LIVE SERVICES, PANELBOARDS, OR OTHER APPLICABLE TERMINATION POINTS. DEMOLITION SHALL NOT PERMIT ABANDONMENT OF ANY SYSTEM OR A COMPONENT OF ANY SYSTEM, UNLESS SPECIFICALLY NOTED AS "ABANDON" OR "TO REMAIN".
- DEMOLITION OF SYSTEMS SHALL INCLUDE UNITS, SUPPORT SYSTEMS, SYSTEM ACCESSORIES, SYSTEM CONTROLS, WIRING AND CONDUIT FOR POWER AND CONTROLS, ASSOCIATED PIPING, DUCTWORK, SUPPORTS, ETC. IN THEIR ENTIRETY, UNLESS SPECIFICALLY OTHERWISE NOTED.
- ALL REMOVED EQUIPMENT SHALL BE MAINTAINED IN GOOD CONDITION. REMOVED EQUIPMENT NOT INDICATED FOR REUSE SHALL REMAIN THE PROPERTY OF THE OWNER. SHOULD THE OWNER DECLINE POSSESSION OF ANY EQUIPMENT, SAID EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DELIVER ALL REMOVED EQUIPMENT TO THE OWNER. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL CONTRACTOR PROPERTY FROM THE SITE.
- DEMOLITION AND/OR RELOCATION OF CONTROLS FOR UNITS TO REMAIN SHALL INCLUDE, BUT NOT LIMITED TO: ALL PNEUMATIC CONTROLS, COMPRESSORS, AND PNEUMATIC DISTRIBUTION SYSTEM; SPACE & DUCT THERMOSTATS; SPACE & DUCT TEMPERATURE SENSORS; SMOKE DETECTORS, FIRESTATS, FREEZESTATS, AND OTHER SAFETIES OR LIMIT DEVICES; CONTROL VALVES AND DAMPERS - PROVIDE NEW DDC ACTUATORS AS REQUIRED; ALL HVAC CONTROL PANELS. NEW CONTROL SYSTEM SHOP DRAWINGS SHALL INCLUDE ALL EXISTING DEVICES, DAMPERS, CONTROL VALVES, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- EXISTING INFORMATION SHOWN ON THE PLANS IS DERIVED FROM ORIGINAL DESIGN AND MODIFICATION PLANS FOR THE SITE MADE AVAILABLE TO THE ENGINEER. ADDITIONAL UNDOCUMENTED MODIFICATIONS HAVE BEEN MADE AT THE SITE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, ROUTING, AND SIZES OF EXISTING DUCTWORK AND PIPING TO REMAIN OR BE MODIFIED PRIOR TO BEGINNING ANY WORK. CONTRACTOR SHALL REPORT ANY MAJOR DISCREPANCIES TO THE ARCHITECT FOR RECOMMENDED ACTION.

PNEUMATIC TUBE SYSTEM GENERAL NOTES:

- THE PNEUMATIC TUBE SYSTEM INFRASTRUCTURE DESIGN HEREIN IS BASED ON SWISSLOG HEALTHCARE SOLUTIONS EQUIPMENT.
- PROTOCOL DEVELOPMENT AND TRAINING IS PART OF THE START UP PROCESS. INCLUDED IN THIS PROCESS IS HOW THE SYSTEM CAN IDENTIFY LOCATIONS OF CANISTERS, HOW TO HANDLE STUCK CARRIERS, SECURITY OF PRODUCTS, BLOWER CONTROL MONITOR EQUIPMENT.
- THE PNEUMATIC TUBE SYSTEM, TUBE ROUTING SHALL NOT BE MOUNTED CROSSING THE CATWALK IN THE INTERSTITIAL SPACE.
- THE PNEUMATIC TUBE SYSTEM SHALL BE MOUNTED/SUSPENDED BELOW THE CATWALK IN THE INTERSTITIAL AND SHALL BE MOUNTED NO LESS THEM 4'-6" ABOVE THE CATWALK.
- THE VA SHALL APPROVE LAYOUT AND/OR LAYOUT PRIOR TO WORK.
- THE VA PREFERS THE CONTRACTOR TO USE THE EXISTING PNEUMATIC TUBE ROUTE IF POSSIBLE. IF THE EXISTING ROUTE IS "BEST" ROUTE THE CONTRACTOR WILL REMOVE THE EXISTING PNEUMATIC TUBE, TO ALLOW FOR INSTALLATION OF THE PROPOSED PNEUMATIC TUBE SYSTEM HEREIN.

100% CONSTRUCTION ISSUE

Revisions	Date	FEI Project No.: 13069	MPI Project No.: 8130707	Seal	Seal	Drawing Title BUILDINGS CC, CLC & PRC LEGEND AND GENERAL NOTES Approved: Area Project Manager	Project Title AUDIE L. MURPHY VA HOSPITAL PNEUMATIC TUBING SYSTEM	Date 04/24/15 Project No. 671-13-104 Drawing No. MEP000 Dwg. of	South Texas Veterans Health Care System	STVHCS San Antonio, Texas
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