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E1.0 CASH WRAP POWER / COMMUNICATION DETAIL
SCALE: NOT TO SCALE

GENERAL ELECTRICAL DEMOLITION NOTES

- A) NO ATTEMPT HAS BEEN MADE TO INDICATE ALL EXISTING ELECTRICAL DEVICES, LIGHT FIXTURES, COMMUNICATION DEVICES, WIRING, CONDUIT, ETC. TO BE REMOVED AND/OR RELOCATED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION PRIOR TO SUBMITTING BID. ALL ITEMS SHOWN ON THESE DRAWINGS ARE NEW UNLESS NOTED OTHERWISE NOTED.
- B) REMOVE AND/OR RELOCATE EXISTING ELECTRICAL DEVICES NOT NOTED AS EXISTING TO REMAIN. COORDINATE SUCH CONDITIONS WITH ARCHITECTURAL DRAWINGS.
- C) EXISTING CONDUITS, CIRCUITS OR SYSTEMS IN WALLS OR CEILING BEING REMOVED WHICH SERVE SURROUNDING UNREMODELED AREAS SHALL REMAIN AND BE PROTECTED DURING DEMOLITION AND REMODELING, AND SHALL BE RELOCATED AND REROUTED.
- D) EXISTING CONDUITS, CIRCUITS OR SYSTEMS PASSING THROUGH THE REMODELED AREAS WHICH SERVE UNREMODELED AREAS SHALL REMAIN AND BE PROTECTED DURING DEMOLITION AND REMODELING, AND SHALL BE RELOCATED AND REROUTED.
- E) CONTINUITY OF CIRCUITS INTERRUPTED BY REMOVAL OF ELECTRICAL DEVICES SHALL BE MAINTAINED.
- F) ALL UNUSED WIRE (POWER & COMMUNICATION) SHALL BE REMOVED.
- G) ALL EXISTING WIRING (POWER & COMMUNICATION) THAT IS TO REMAIN SHALL BE REWORKED OR REPLACED WITH CODE COMPLIANT MATERIAL & SUPPORTS. ANY EXISTING SURFACE MOUNTED CONDUITS SHALL BE REMOVED OR RELOCATED SO THAT THEY ARE IN THE JOIST SPACE OR WITHIN WALL CAVITIES.
- H) EXISTING LIGHT FIXTURES THAT REMAIN OR ARE BEING RELOCATED SHALL BE CLEANED AND RE-LAMPED WITH 4 T8 LAMPS. BROKEN LENSES SHALL BE REPLACED. PROVIDE NEW T8 BALLASTS IF REQUIRED.
- I) EXISTING LIGHT FIXTURES, ELECTRICAL, TELECOMMUNICATION DEVICES, PANELBOARDS ETC. THAT ARE NOT TO BE REMOVED SHALL BE NOTED AS EXISTING TO REMAIN ON THE DRAWINGS. SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ON SCOPE OF DEMOLITION.

POWER PLAN NOTES

- 01 PROVIDE A JUNCTION BOX ON WALL ABOVE CEILING FOR RACK POWER. RUN MC CABLE IN WALL CAVITY TO BEHIND RACK. PENETRATE RACK & INSTALL A SEPARATE ORANGE ISOLATED GROUND QUAD RECEPTACLE MOUNTED IN RACK. COORDINATE EXACT LOCATION WITH HFT PRIOR TO INSTALLATION.
- 02 PROVIDE A DEDICATED CIRCUIT & WIRE THRU TIME CLOCK. UTILIZE SAME CIRCUIT IF THERE ARE TWO EXHAUST FANS.
- 03 DEDICATED ISOLATED GROUND QUAD OUTLET ON DEDICATED CIRCUIT. COLOR TO BE ORANGE.
- 04 DEDICATED ISO GROUND QUAD OUTLET MOUNTED WITHIN THE CASHWRAP SO THAT BOTTOM OF QUAD IS 2" ABOVE LOWEST SHELF. SEE DETAIL 1E1.0. COLOR TO BE ORANGE.
- 05 COORDINATE ROUGH-IN LOCATION WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO INSTALLATION. PROVIDE STANDARD 20A-120V RECEPTACLE & WIRE TO A GFCI TYPE CIRCUIT BREAKER.
- 06 DUPLEX OUTLET MOUNTED ON WALL AT 12" ABOVE WINDOW. MOUNT FLUSH IN CEILING IF CEILING IS WITHIN 12" OF TOP OF WINDOW.
- 07 DUPLEX OUTLET MOUNTED FLUSH IN WALL ABOVE GLASS FOR NEON SIGNS BY T.G.C.
- 08 J-BOXES WITH SERVICE DISC SWITCH FOR SIGN CIRCUITS. COORDINATE ROUGH-IN REQUIREMENTS WITH SYSTEM CONTRACTOR.
- 09 15'-0" HIGH 2 COMPARTMENT POWER POLE TO BE FURNISHED BY HFT AND INSTALLED BY EC. EC SHALL EXTEND UNISTRUT FROM THE POWER POLE UP TO THE ROOF STRUCTURE AND CONNECT TO UNISTRUT SECURED TO ROOF STRUCTURE (UNISTRUT TO BE PAINTED WHITE). SEE ARCHITECTURAL DRAWINGS FOR ROOF STRUCTURE HEIGHTS.
- 10 24 VAC WEATHERPROOF PUSH BUTTON MOUNTED 48" CONNECT TO LOAD SIDE OF TRANSFORMER. DORTRONICS #WR5276-HD29.
- 11 SERVICE BELL MOUNTED TO BOTTOM OF ROOF STRUCTURE. EDWARDS #340-655598-348.
- 12 REMOVE EXISTING ELECTRICAL PANELS IF NOT SHOWN ON THIS PLAN OR E2.0 AS EXISTING TO REMAIN.
- 13 INTERCEPT EXISTING SECONDARY CONDUITS AND EXTEND INTO NEW METER CENTER. PROVIDE NEW CONDUITS BETWEEN TRANSFORMER AS REQUIRED. UTILIZE EXISTING TO EXTENT POSSIBLE. SEE DRAWING E2.0 FOR DETAILS. ELECTRICAL CONTRACTOR SHALL COORDINATE NEW SWITCH & METER REQUIREMENTS WITH POWER COMPANY IMMEDIATELY UPON RECEIVING CONTRACT. CONDUITS BETWEEN THE SERVICE DISCONNECT SWITCH AND OR METER ENCLOSURE & THE TENANT DISTRIBUTION PANELS SHALL BE ROUTED VERTICALLY UP EXTERIOR WALL. PENETRATE EXTERIOR WALL IN JOIST SPACE. TURN CONDUIT & ROUTE TIGHT TO EXTERIOR WALL IN JOIST SPACE TO TENANT DISTRIBUTION PANELS. TURN CONDUITS DOWN & ROUTE VERTICALLY TO PANELS & CONNECT. PROVIDE FULFILL BOXES AS REQUIRED. SEAL CONDUIT AT EXTERIOR WALL PENETRATION. CONDUIT SHALL BE RUN IN JOIST WEB SPACE FOR THE ENTIRE ROUTE UNTIL THE VERTICAL DROP AT THE PANELS. INTERCEPT EXISTING EXTERIOR WALL LIGHTING, SITE LIGHTING, PYLON SIGNS, SUMP PUMPS, ETC. ANY LOAD THAT IS CONSIDERED A LANDLORD LOAD AND RE ROUTE TO PANEL 'L' WITH LIKE WIRE AND CONDUIT. PROVIDE CONTROL THAT MATCHES EXTERIOR LIGHTING AND SIGN SYSTEMS.
- 14 DUPLEX RECEPTACLE FOR SUSPENDED MONITOR. E.C. SHALL PROVIDE MC CABLE & CAST BOX & MOUNT RECEPTACLE ON MONITOR ARM. COORDINATE EXACT LOCATION WITH COMMUNICATIONS CONTRACTOR.
- 15 208/240V CHARGER WIRED & INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE ROUGH-IN REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- 16 UTILIZE EXHAUST FAN CIRCUIT & CONNECT POWERED LOUVER LOCATED IN DUCT WORK WITH (2)#12,#12GND. INSTALL CONTROL TRANSFORMER (PROVIDED BY MECHANICAL CONTRACTOR) COORDINATE ROUGH-IN REQUIREMENTS WITH MECHANICAL CONTRACTOR. WIRE TO LINE VOLTAGE TSTAT.
- 17 LOCATION OF FIRE ALARM CONTROL PANEL IF REQUIRED. ELECTRICAL CONTRACTOR TO LABEL PANEL & CONNECT TO CIRCUIT P-32 WITH (2)#12,#12GND-3/4".
- 18 EXISTING TELEPHONE DEMARK CABINET.
- 19 6"x6"x4" DEEP BOX MOUNTED AT 40" AFF TO BOTTOM FOR ENERGY MANAGEMENT SYSTEM TOUCH SCREEN CONTROLLER. STUB (1) 1" CONDUIT ABOVE CEILING FOR COMMUNICATION CABLES. STUB A 3/4" CONDUIT TO A SINGLE GANG BOX MOUNTED 6" ABOVE CEILING FOR POWER SUPPLY WIRING. FROM SINGLE GANG BOX MOUNTED ABOVE CEILING HOMERUN BRANCH CIRCUIT TO PANEL. FROM SINGLE GANG BOX, STUB 3/4" PIPELINE INTO A 6" X 6" BOX LOCATED 6" ABOVE CEILING. EMS VENDOR SHALL INSTALL TOUCH SCREEN CONTROLLER POWER SUPPLY AND CONNECT LOW VOLTAGE POWER TO TOUCH SCREEN CONTROLLER. E.C. SHALL EXTEND LINE VOLTAGE TOUCH SCREEN CONTROLLER POWER SUPPLY CABLES AND CONNECT TO 120 VOLT POWER. TOUCH SCREEN CONTROLLER POWER SUPPLY AND TOUCH SCREEN CONTROLLER SHALL BE LOCATED WITHIN 6'-0" OF EACH OTHER.
- 20 SURFACE MOUNTED TERMINAL BOX MOUNTED NEXT TO SECURITY PANEL FOR EMS TO SECURITY SYSTEM INTERFACE.
- 21 ELECTRICAL CONTRACTOR SHALL INSTALL THE LIGHTING CONTROL PANEL (LCP). E.C. SHALL PROVIDE 120 VOLT POWER FOR THE POWER SUPPLY AND WIRE ALL LIGHTING CIRCUITS THROUGH THE CONTACTORS AS SHOWN ON DRAWING E2.0 AND 2.1.
- 22 NOTE NOT USED.
- 23 E.C. SHALL PROVIDE HEAVY RIGID STEEL CONDUIT THRU RTU CURB AND INSTALL ON RTU ON SIDE OPPOSITE OF THE CONDENSING FAN. SEE EMS DRAWINGS FOR DETAILS. EMS VENDOR SHALL WIRE AND INSTALL OSD.
- 24 HFT SHALL PROVIDE 12 OUTLET 4 PLUGSTRIP WITH 6" POWER CORD AND POWER SWITCH. EC SHALL INSTALL. EC SHALL MOUNT QUAD RECEPTACLE AT 48" AFF ON EACH SIDE OF PEGBOARD. SEE BANNER/CHARGER STATION DETAIL ON DRAWING A4.0.
- 25 STUB 3/4" CONDUIT FROM THE BOTTOM OF THE SECURITY PANEL TO 96" AFF (BELOW CEILING). STUB TO BE WITHIN 6" HORIZONTAL OF QUAD RECEPTACLE. TYPICAL FOR 2. SECURITY CONTRACTOR SHALL ROUTE SECURITY PANEL POWER CABLE THRU CONDUITS PROVIDED.
- 26 ELECTRICAL CONTRACTOR SHALL INSTALL A HEAVY DUTY NEMA 3R DISCONNECT SWITCH. PROVIDE REJECTION TYPE FUSES SIZED PER THE MOCOP OF THE UNIT. CONNECT SWITCH AHEAD OF THE INTEGRAL UNIT MOUNTED CIRCUIT BREAKER. THE FUSED DISCONNECT SWITCH IS REQUIRED TO MINIMIZE THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MECHANICAL EQUIPMENT.
- 27 THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE A QUAD RECEPTACLE FOR EACH CORD REEL INDICATED ON THE FUTURE PLAN. THE RECEPTACLE SHALL BE MOUNTED AT 18 INCHES ABOVE THE BOTTOM OF THE JOIST. INSTALL THE OUTLET IN A WHITE CAST BOX WITH WHITE COVER. PROVIDE UNISTRUT BRACKETING IN JOIST SPACE PER HFT INSTALLATION DOCUMENTATION. OBTAIN INSTALL DOCUMENTATION PRIOR TO BIDDING.
- 28 THE ELECTRICAL CONTRACTOR SHALL INSTALL A QUAD RECEPTACLE AT 8'-6" TO THE BOTTOM OF THE OUTLET. PROVIDE A RECESSED SYSTEM WHERE WALLS ARE FURRED. FOR SURFACE MOUNTED APPLICATIONS, RUN A 3/4" EMT CONDUIT VERTICALLY DOWN WALL FROM JOIST SPACE TO OUTLET. MOUNT RECEPTACLE IN A WHITE CAST BOX AND PAINT EMT CONDUIT TO MATCH WALL SURFACE.
- 29 THE ELECTRICAL CONTRACTOR SHALL INSTALL THE ENERGY MANAGEMENT CONTROL PANEL (SLP). E.C. SHALL PROVIDE THE 120 VOLT CIRCUIT, (2) 1" CONDUITS STUBBED TO JOIST SPACE FOR CONTROL WIRING AND (1) 1" CONDUIT BETWEEN THE SLP AND SLP FOR CONTROL WIRING. SEE DRAWING E2.0 AND THE EMS DRAWINGS FOR FURTHER DETAILS.
- 30 ELECTRICAL CONTRACTOR SHALL INSTALL A RECEPTACLE MOUNTED AT 96" AFF. CONTROLLED BY A SWITCH MOUNTED AT 48" AFF AND AN UNSWITCHED RECEPTACLE AT 24" AFF ALL CONNECTED TO THE CIRCUIT INDICATED ON THE FLOOR PLAN.
- 31 EXISTING RTU TO REMAIN. UTILIZE EXISTING CONDUIT AND WIRE TO EXTENT POSSIBLE. EXTEND FEEDER WITH MATCHING STYLE CONDUIT AND WIRE TO ALLS' PANEL AS REQUIRED. VERIFY EXACT BREAKER SIZE AND ADJUST AS REQUIRED. LOCK OUT AIR CONDITIONING FUNCTION OF RTU.
- 32 SUMP PUMP AND CONTROL PANEL SHALL BE INSTALLED BY G.C. WIRED BY HFT E.C. PROVIDE POWER AND CONTROL WIRING BETWEEN SUMP PUMP AND CONTROL PANEL.
- 33 GRINDER PUMP AND CONTROL PANEL SHALL BE INSTALLED BY G.C. WIRED BY HFT E.C. PROVIDE POWER AND CONTROL WIRING BETWEEN GRINDER PUMP AND CONTROL PANEL.

DO NOT SCALE THESE DRAWINGS



HARBOR FREIGHT TOOLS

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REVISIONS	
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POWER PLAN

DATE: 9/22/21
JOB NO.: 20420

E1.0a

SHEET NO.