SPECIFIC NOTES:

1. FURNISH AND INSTALL A NEW 125-VOLT, 2-POLE, 3-WIRE, 20 AMPERE, GROUNDING TYPE DUPLEX OR QUADRAPLEX WIRING DEVICE AS DELINEATED. THE WIRING DEVICE AND COVER PLATE, COLOR, AND FINISH SHALL BE AS SPECIFIED BY THE ARCHITECT.

2. FURNISH AND INSTALL A NEW 120/277-VOLT, SINGLE POLE 3-WAY OR 4-WAY, 20 AMPERE RATED, TOGGLE SWITCH WIRING DEVICE. THE WIRING DEVICE AND COVER PLATE, COLOR AND FINISH SHALL BE AS SPECIFIED BY THE ARCHITECT.

3. FURNISH AND INSTALL A NEW COMMUNICATION VOICE AND/OR DATA OUTLET, AT EACH COMMUNICATION OUTLET INDICATED, PROVIDE AN OUTLET, PLASTER RING, BLANK PLATE, AND PULLSTRING FROM THE OUTLET TO AN ACCESSIBLE LOCATION ABOVE THE CEILING CAVITY. PROVIDE PULL-STRING FROM RING TO STUB-OUT LOCATION ABOVE THE CEILING WITH 1'-Ø" OF SLACK AT EACH END AND TIED AT EACH END. PROVIDE CABLING FOR COMMUNICATION SYSTEMS.

4. CONTRACTOR SHALL MEASURE THE PANELBOARDS' PHASE, NEUTRAL AND GROUND AMPERES AFTER LOADS ARE ESTABLISHED AND OPERATING ON A NORMAL BUSINESS WORKING DAY TO ENSURE THAT THE AMPACITY OF EACH PANELBOARD DOES NOT EXCEED THE MAXIMUM LISTED AMPACITY AND TO ENSURE PHASE BALANCE. CONTRACTOR SHALL KEEP AND MAINTAIN A "TABULATED LOG" RECORDING THE MEASURED VALUES OF THE PHASE AMPERES, THE PHASE-TO-PHASE VOLTAGE, PHASE-TO-NEUTRAL VOLTAGE, PHASE-TO-GROUND VOLTAGE AND NEUTRAL-TO-GROUND VOLTAGE. CONTRACTOR SHALL "TURN-OVER" A COPY OF THE "TABULATED LOG" TO THE ENGINEER PER REVIEW. ADJUST CIRCUIT CONNECTORS IN PANEL ACCORDINGLY TO ACCOMMODATE ENGINEER'S COMMENTS.

5. FURNISH AND INSTALL A NEW FIRE ALARM SYSTEM AUDIBLE VOICE EVACUATION NOTIFICATION APPLIANCE (CEILING MOUNTED SPEAKER WHITE FINISH). CONNECT NOTIFICATION APPLIANCE TO THE ADDRESSABLE CIRCUIT LOOP PER THE CONTROL PANEL SPECIFICATIONS. ACTIVATION OF THE AUDIBLE/SPEAKER NOTIFICATION APPLIANCE SHALL BE PER THE SEQUENCE OF OPERATIONS. FURNISH AND INSTALL ALL NECESSARY WIRING, CABLES, BRANCH CIRCUITS, RELAYS, CONTROL MODULES, MONITOR MODULES, SIGNAL LINE CIRCUIT MODULES, PROGRAMMING REQUIREMENTS, FUNCTIONAL TESTING, ETC. AS REQUIRED TO ACCOMMODATE THE NOTIFICATION APPLIANCE. ALL CEILING MOUNTED NOTIFICATION APPLIANCES SHALL BE POSITIONED IN THE CENTER OF THE CEILING TILE. THE AUDIBLE OUPUT SHALL BE ADJUSTED TO 15DB ABOVE AMBIENT NOISE LEVEL. SEE NOTE

6. FURNISH AND INSTALL A NEW FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED - UNLESS LABELED AS CEILING MOUNT - WHITE FINISH). CONNECT NOTIFICATION APPLIANCE TO THE ADDRESSABLE CIRCUIT LOOP PER THE CONTROL PANEL SPECIFICATIONS. ACTIVATION OF THE VISUAL NOTIFICATION APPLIANCE SHALL BE PER THE SEQUENCE OF OPERATIONS. FURNISH AND INSTALL ALL NECESSARY WIRING, CABLES, BRANCH CIRCUITS, RELAYS, CONTROL MODULES, MONITOR MODULES, SIGNAL LINE CIRCUIT MODULES, PROGRAMMING REQUIREMENTS, FUNCTIONAL TESTING, ETC. AS REQUIRED TO ACCOMMODATE THE NOTIFICATION APPLIANCE. MOUNT VISUAL NOTIFICATION APPLIANCE AT 80" ABOVE FINISHED FLOOR. ALL NOTIFICATION APPLIANCES CANDELA INTENSITY SHALL BE 15CD (OR 15/75CD FOR CORRIDORS) UNLESS OTHERWISE NUMERICALLY NOTED BY THE NOTIFICATION APPLIANCE SYMBOL. SEE NOTES 7 AND 8.

7. FURNISH AND INSTALL A QUANTITY OF APPLIANCE POWER SUPPLY UNITS AS REQUIRED FOR THE NOTIFICATION APPLIANCES OR INITIATING DEVICES. PROVIDE A 1P-20A CIRCUIT BREAKER IN AN AVAILABLE EMERGENCY POWER PANELBOARD TO PROVIDE ELECTRICAL POWER SERVICE TO EACH POWER SUPPLY UNIT. FURNISH AND INSTALL RACEWAY SYSTEMS, CONDUIT BODIES, SUPPORT HARDWARE, PLENUM RATED CABLES, CONDUCTORS, ACCESSORIES, APPURTENANCES, PROGRAMMING REQUIREMENTS, FUNCTIONAL TESTING, ETC. FOR A COMPLETE WORKING INSTALLATION.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING EACH AND EVERY VISUAL NOTIFICATION APPLIANCE FOR SYNCHRONIZATION WITH OTHER VISUAL NOTIFICATION APPLIANCES IN THE RESPECTIVE FIELD-OF-VIEW. REPLACE ANY AND ALL NOTIFICATION APPLIANCES NOT IN COMPLIANCE WITH THIS REQUIREMENT.

9. CONNECT EXTERIOR AREA LIGHT FIXTURES TO EH1:1 USE #10 CONDUCTORS THROUGHOUT CIRCUIT.

10. CONNECT TO 120 VOLT RECEPTACLE CIRCUIT SERVING COUNTER. VERIFY LENGTH OF FIXTURE NEEDED TO ACCOMMODATE MILLWORK AND CABINET DIMENSIONS PRIOR TO ORDERING FIXTURES. ADJUST FIXTURE QUANTITY ACCORDINGLY.

11. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL LIGHT FIXTURES TO ENSURE THAT THE LIGHT FIXTURES DO NOT INTERFERE WITH ANY STRUCTURAL, MECHANICAL, OR PLUMBING COMPONENTS AND EQUIPMENT. RELOCATE LIGHT FIXTURES DUE TO INTERFERENCES WITH STRUCTURAL, MECHANICAL, OR PLUMBING COMPONENTS AND EQUIPMENT. COORDINATE RELOCATION WITH ARCHITECT.

12. PROVIDE A NEW WALL BOX TYPE OCCUPANCY SENSOR WITH MANUAL OFF, WHITE FINISH, FIELD ADJUSTABLE OFF DELAY.

13. FURNISH AND INSTALL A FLUSH-MOUNTED POKE-THRU ASSEMBLY (WIREMOLD RC-4 SERIES WITH COM-T5 OR EQUIVALENT) WITH TWO (2) DUPLEX, 20A, 120V RECEPTACLES AND FOUR (4) CAT 6 RJ45 COMMUNICATION JACKS. THE POKE-THRU ASSEMBLY SHALL BE A FIRE RATED TYPE WITH AN INTUMESCENT SEALER. PROVIDE RACEWAYS IN CEILING CAVITY BELOW FROM POKE THROUGH ASSEMBLY TO THE NEAREST STRUCTURAL COLUMN OR FULL HEIGHT WALL AND ROUTE BACK TO PANELBOARD ABOVE THE LAY-IN CEILING CAVITY. PROVIDE AND INSTALL TWO Ø.75" COMMUNICATION CONDUITS FROM THE POKE-THROUGH ASSEMBLY'S COM ADAPTER TO ABOVE THE CEILING CAVITY IN AN ACCESSIBLE LOCATION. FOR COMMUNICATION WIRING PROVIDE A TERMINAL BUSHING AT THE END OF EACH CONDUIT. PROVIDE COMMUNICATION CABLING AND POWER CIRCUITRY. VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF ROUGH-IN WORK.

14. FOR ACCESS CONTROL SYSTEM POWER LOCATE IN CAVITY AT SECURITY SYSTEM BOX LOCATION. SEE NOTE 62.

15. FURNISH AND INSTALL A NEW FIRE ALARM SYSTEM INITIATING DEVICE (PHOTOELECTRIC SMOKE OR HEAT DETECTOR). CONNECT INITIATING DEVICE TO THE ADDRESSABLE CIRCUIT LOOP PER THE CONTROL PANEL SPECIFICATIONS. THE FUNCTIONALITY UPON ACTIVATION OF THE INITIATING DEVICE SHALL BE PER THE CONTROL PANEL SEQUENCE OF OPERATIONS. FURNISH AND INSTALL ALL NECESSARY WIRING, CABLES, BRANCH CIRCUITS, RELAYS, CONTROL MODULES, MONITOR MODULES, SIGNAL LINE CIRCUIT MODULES, PROGRAMMING REQUIREMENTS, FUNCTIONAL TESTING, ETC. AS REQUIRED TO ACCOMMODATE THE DETECTION.

16. PROVIDE (2) 4" CONDUITS FROM MAIN TELECOM ROOM TO UTILITY CONNECTION POINT AT SERVICE ROAD "FOR CATV SERVICE" COORDINATE WITH CIVIL/SURVEY DRAWINGS FOR LOCATION OF CONNECTION.

17. PROVIDE A 2P30A208V, (TWISTLOCK) RECEPTACLE TO MATCH EQUIPMENT PLUG. VERIFY EXACT CONFIGURATION OF EQUIPMENT PLUG PRIOR TO ORDERING MATERIAL.

18. PROVIDE FOR CONNECTION OF BUILT-IN APPLIANCES AS REQUIRED. PROVIDE RECEPTACLE OR HARDWIRE CONNECTION (WITH TOGGLE SWITCH DISCONNECT) AS REQUIRED BY EQUIPMENT.

19. PROVIDE AND INSTALL 3/4"THICK GRADE "AC" COMMUNICATION PLYWOOD BACKBOARD, WITH SIDE "A" FRONT, ON WALLS SHOWN, COVERING ENTIRE WALL. THE COMMUNICATION PLYWOOD BACKBOARD SHALL BE PAINTED WITH TWO COATS OF ANSI-64 GRAY FIRE RETARDANT PAINT PER ANSI SPECIFICATIONS AND INSTRUCTIONS. PROVIDE FOR RECESS DEPTH OF ANY RELATED DEVICE BOXES TO ACCOMMODATE.

20. PROVIDE A 2" CONDUIT FOR THE FLAG PAVILION TO THE MAIN ELECTRICAL ROOM WITH PULLSTRING THROUGHOUT. STUB UP AND TERMINATE IN ELECTRICAL ROOM 18" ABOVE FLOOR. LABEL BOTH ENDS FOR LOCATION OF OPPOSITE END. STUB UP IN FS BOX IN ISLAND.

21. CONNECT EXTERIOR RECEPTACLES TO L1:1. USE #10 CONDUCTORS THROUGHOUT CIRCUIT.

22. PROVIDE (1) 1" CONDUIT FROM FLOOR BOX TO NEAREST WALL. STUB UP INTO NEAREST ACCESSIBLE CEILING CAVITY AND TERMINATE IN BUSHED OPENING.

23. FURNISH AND INSTALL A Ø.75" HEYCO FLEX 1 FNMC-B NON-METALLIC LIQUID-TIGHT CONDUIT, (LARGER CONDUIT AS REQUIRED) OR AN APPROVED ELECTRICAL POWER HARNESS FROM THE FLUSH-MOUNTED JUNCTION BOX TO THE DESIGNATED ELECTRICAL SERVICE TERMINATION POINT IN THE PRE-WIRED MODULAR FURNITURE. PROVIDE ALL NECESSARY HARDWARE, CONNECTORS, AND ACCESSORIES PER THE PRE-WIRED MODULAR FURNITURE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS FOR A COMPLETE INSTALLATION.

24. FURNISH AND INSTALL A 1" HEYCO FLEX 1 FNMC-B NON-METALLIC LIQUID-TIGHT CONDUIT, (LARGER CONDUIT AS REQUIRED) FROM THE FLUSH MOUNTED JUNCTION BOX TO THE DESIGNATED MODULAR OFFICE FURNITURE COMMUNICATION RACEWAY. PROVIDE ALL NECESSARY HARDWARE, CONNECTORS, AND ACCESSORIES PER THE PRE-WIRED MODULAR FURNITURE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS FOR A COMPLETE INSTALLATION.

25. PROVIDE EXTERIOR NON-METALLIC, VAPOR TIGHT, INCANDESCENT LIGHT FIXTURE, 100W, A-19 LAMP, GLASS GLOBE, GLOBE GUARD, 120V.UL. LISTED FOR WET LOCATIONS. HUBBELL SERIES NVX15GHG OR APPROVED EQUIPMENT. PROVIDE AND INSTALL A UNISTRUT MOUNTING FRAME FOR THE LIGHT FIXTURE, TOGGLE SWITCH AND GFIC RECEPTACLE. PROVIDE AND INSTALL RACEWAY SYSTEMS, SUPPORT HARDWARE, AND APPURTENANCES FOR COMPLETE INSTALLATION. PROVIDE GFI TYPE RECEPTACLE AND PROVIDE WEATHERPROOF COVERS ON RECEPTACLE AND SWITCH. ENTIRE INSTALLATION TO BE WEATHER PROOF.

26. PROVIDE FLOOR BOX TO BE A SHALLOW RECTANGULAR CAST IRON DOUBLE GANG, WITH SEPARATOR, ADJUSTABLE HEIGHT, BRASS COVER WITH POWER AND COMMUNICATION SECTIONS. PROVIDE A DUPLEX 20A, 120V RECEPTACLE FOR POWER AND (2) RJ45 JACKS FOR COMMUNICATION. COVER TO BE DOUBLE GANG WITH DUPLEX FLAP ON EACH SECTION. PROVIDE CARPET OR TILE FLANGE AS REQUIRED.

27. FURNISH AND INSTALL A ¼" x 4" x 20" COPPER GROUND BUS BAR WITH STAND-OFF INSULATORS AS A SIGNAL REFERENCE GRID (EQUAL POTENTIAL REFERENCE POINT) FOR BONDING CONDUITS, CONDUIT BODIES, METAL RACKS, CABLE TRAY, METAL DOOR FRAMES AND ANY OTHER NON-CURRENT CARRYING METAL ENCLOSURES. INSTALL A #6AWG INSULATED COPPER CONDUCTOR FROM THE GROUND BUS BAR TO THE XO POINT IN THE EXISTING TRANSFORMER OR THE BUILDINGS MAIN GROUNDING ELECTRODE SYSTEM GROUNDING BUS BAR. BUS TO BE PRE-DRILLED FOR LUG CONNECTIONS.

28. LOOP #6 AWG CONDUCTOR TO OTHER BARS THROUGHOUT.

29. PROVIDE A DOOR BELL SYSTEM WITH PUSHBUTTON, CHIMES AND ALL RELATED WIRING, TRANSFORMER OCP, ETC. SUBMIT TECHNICAL SHEET ON CHIME, PUSHBUTTON AND ESCUTCHEON FOR ARCHITECT'S APPROVAL PRIOR TO ORDERING MATERIAL. EDWARDS AC ADAPTABUZZER MODEL 340A-G5 WITH ADJUSTABLE VOLUME AND ON-OFF SWITCH, 24V, SEE 3/E2.1 LABEL PUSHBUTTON "ENTRY BELL".

30. LOCATE ALL BOXES, FITTINGS, ETC. AT NON-ACCESSIBLE CEILINGS IN ADJACENT AREAS WHERE THERE ARE ACCESSIBLE CEILINGS FOR ACCESS TO COVERS, ETC.

31. FOR CATV. MOUNT DEVICES FLUSH IN WALL AT HEIGHT AS DIRECTED BY ARCHITECT. LOCATE POWER AND CATV OUTLETS TOGETHER COORDINATE EXACT HEIGHT, LATERAL POSITION, DETAIL OF MOUNTING AND TYPE OF BOX-PLATE (RECESSED NICHE, FLUSH ETC.) WITH ARCHITECT FOR CATV DEVICE AND RELATED POWER RECEPTACLE, PRIOR TO ORDERING MATERIAL AND ROUGH-IN, ADJUST LOCATION, MATERIAL, PROVIDE RACEWAYS, ETC. ACCORDINGLY. SEE SPECIFIC NOTE 61.

32. PROVIDE TELEPHONE (VOICE) WIRING SERVICE TO ELEVATOR CAB. CONNECT TO HANDEST. COORDINATE REQUIREMENTS WITH ELEVATOR VENDOR.

33. PROVIDE A FLUORESCENT DIMMER, SLIDE LEVER WITH POSITIVE MECHANICAL OFF. DIMMER TYPE AND RATINGS TO BE 100% COMPATIBLE WITH DIMMING BALLAST AND SIZED TO ACCOMMODATE RESPECTIVE LOAD FIXTURE WATTAGES, ALL AS RECOMMENDED BY THE BALLAST AND DIMMER MANUFACTURERS. COORDINATE REQUIREMENTS AND PROVIDE CONFIRMATION OF COMPATABILITY AND FREQUENCY RANGE PRIOR TO ORDERING MATERIAL. RANGE MUST NOT CONFLICT WITH RANGE OF AUDIO AND RADIO EQUIPMENT.

34. PROVIDE FLOOR BOX FOR CONNECTION OF POWER AND COMMUNICATION CIRCUITRY TO FURNITURE PARTITIONS. PROVIDE FLOOR BOX, RACEWAYS, CONNECTORS, FLEXIBLE WHIP, HARNESSES, ETC., FOR A COMPLETE INSTALLATION. COORDINATE WITH FURNITURE VENDOR FOR EXACT DETAILS AND ADJUST WORK ACCORDINGLY.

35. PROVIDE SIGNAL REPEATER UNIT. FOR CIRCUIT INDICATED. PROVIDE METAL CHANNEL SHELF BRACKET FOR MOUNTING. COORDINATE EXACT LOCATION WITH 15 REPRESENTATIVE PRIOR TO ROUGH-IN.

36. CONNECT TO POWERED MEDICINE CABINET AS REQUIRED.

37. MOUNT AT 4'-0" BELOW CEILING LEVEL. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.

38. PROVIDE A 1" CONDUIT WITH PULLSTRING FROM KIOSK TO SERVER ROOM AND A 1" CONDUIT WITH PULLSTRING FROM KIOSK TO LOCATION OF PNEUMATIC TUBE SYSTEM CONTROLLER. TERMINATE EACH END OF EACH CONDUIT AS DIRECTED BY IT AND ATM UNIT REPRESENTATIVES.

39. CARD ACCESS READER AND KEYPAD DEVICE FLUSH WALL MOUNTED AT 48" TO CENTER OF OUTLETS ABOVE FINISHED FLOOR. PROVIDE AS REQUIRED AND NECESSARY ACCESS DEVICES, LOW-VOLTAGE PLENUM RATED CABLES, TERMINATION OF LOW-VOLTAGE CABLES, SECURITY SYSTEM HEAD-END CABINET TERMINATIONS, ETC.

40. PROVIDE INSTALLATION OF AN ELECTRICALLY OPERATED, RE-TRACTABLE PROJECTION SCREEN, TO BE SPECIFIED BY OTHER DIVISIONS OF WORK. REFER TO ARCHITECTURAL DETAILS FOR MOUNTING. PROVIDE MULTI-POSITION CONTROL SWITCH, AND ALL RELATED CIRCUITRY, FOR POWER AND CONTROL AS REQUIRED. SEE SPECIFIC NOTE 71.

41. PROVIDE (2) 4" CONDUITS FROM MAIN TELECOM ROOM TO UTILITY CONNECTION POINT AT SERVICE ROAD FOR TELEPHONE SYSTEM SERVICE. COORDINATE WITH CIVIL/SURVEY DRAWINGS FOR LOCATION OF CONNECTION.

42. AFTER INSTALLATION OF CABLING IN TRAY, PROVIDE SEALING MEDIUM TO ACCOMMODATE FM200 SUPPRESSION SYSTEM. PROVIDE CABLE TRAY WALL SLEEVE AND SEALING BOARD.

43. MOTION SENSORS, CONTACTS, MAGNETIC LOCKS, ELECTRIC STRIKES, AND ALL RELATED LOW-VOLTAGE PLENUM RATED CABLES, CONNECTIONS, HEAD-END CABINET, SOFTWARE, SERVER DATA INPUT, COMMISSIONING, SET-UP, ETC. SHALL BE COMPLETED IN COORDINATION WITH THE SECURITY SYSTEM REQUIREMENTS.

44. PROVIDE A PANEL TYPE LIGHT, RED COLOR WITH SCREW TYPE ESCUTCHEON, CENTER PORT DEVICE COVER PLATE WITH SINGLE GANG BOX, AT 48" AFF. WIRE TO BE CONTROLLED BY SWITCH IN ROOM. LABEL SWITCH PLATE "ON AIR LIGHT". LABEL LIGHT DEVICE COVER "IN PROGRESS". 120V SYSTEM. LABELING TO BE LASER ENGRAVING. COORDINATE WITH ARCHITECT AND SUBMIT DETAILS OF LETTERING FOR APPROVAL PRIOR TO ORDERING MATERIAL.

45. PROVIDE A 110 PUNCH DOWN BLOCK FIELD OF MINIMUM OF 300 ON BOARD. LABEL FOR DATA.

46. PROVIDE VISUAL NOTIFICATION SIGNAL WIRING TO ELEVATOR CAB AND PROVIDE APPLIANCE IN CAB. COORDINATE WITH ELEVATOR VENDOR.

47. PROVIDE VEHICLE INDUCTIVE LOOP DETECTOR (IN-SLAB) AND ALL RELATED CONCRETE SCORING AND PATCHING, CONTROLLER, RACEWAYS, CONNECTIONS, POWER SUPPLIES, INTERFACE WITH ACCESS SYSTEM, ETC. COORDINATE WITH MANUFACTURER FOR DETAILS AND WITH ARCHITECT FOR EXACT LOCATION OF DETECTOR CABLING.

48. COORDINATE EXACT LOCATION OF GENERATOR AND TRANSFORMER PAD WITH OTHER DIVISIONS OF WORK AND WITH CLECO PRIOR TO PAD LAYOUT. PROVIDE CLEARANCES AS REQUIRED BETWEEN EQUIPMENT AND FROM BUILDING WALLS.

49. PROVIDE A COMPLETE PC BASED SECURITY AND ACCESS SYSTEM INCLUDING ALL SOFTWARE, HARDWARE, CONTACTS, DOOR LOCK HARDWARE, BUTTONS, CONNECTIONS, WIRING, PROGRAMMING, ETC, AND ALL RELATED 120V POWER CIRCUITRY AS REQUIRED.

50. PROVIDE 66 MBLOCKS FOR 50 PAIR TELEPHONE CABLE ON WALL. BLOCKS TO BE SPLIT 50 STYLE.

51. PROVIDE A 19" RELAY RACK, EQUIVALENT TO GREAT LAKES FLOOR-TO-CEILING TYPE, WITH FIVE SHELVES. PROVIDE RACK WITH HORIZONTAL AND VERTICAL 'D' RINGS, FRONT AND REAR DOOR ENCLOSURE TYPE, GREAT LAKES GLRR 1984BA AND CO3519L AND/OR COT519L AS NECESSITATED IN THE FIELD. PROVIDE A QUANTITY OF PORT LATERAL 568B PATCH PANELS WITH CATEGORY 6 INSERTS. SHELVES TO BE CENTER MOUNT AND VENTILATED. QUANTITY TO BE DICTATED BY DEVICE QUANTITY. SEE NOTE 55.

52. PROVIDE A 300 PAIR CABLE FOR TELEPHONE SERVICE FROM SERVICE TO 66 MBLOCK FIELD ON BOARD. TERMINATE IN CLOSET AS DICTATED BY TELEPHONE SYSTEM VENDOR. CABLE TO BE 24AWG, COPPER WITH TWISTED PAIRS AND OVERALL JACKET.

53. PROVIDE A COAXIAL CABLE, RG6, FROM THE SPLITTER ARRAY TO EACH DEVICE LOCATION (SEE SPECIFIC NOTE 31) TERMINATE WITH F CONNECTORS.

54. PROVIDE SPLITTER ARRAY MOUNTED ON PLYWOOD BACKBOARD TO SERVE CATV SYSTEM DEVICES. MOUNT SPACED SUCH THAT CABLE DOES NOT HAVE TO BE BENT TO CONNECT.

55. RACK TO BE SECURED TO FLOOR WITH Ø5" THREADED ROD, DOWELED INTO SLAB. ANCHOR AT FLOOR AND PROVIDE ANCHORING AT CEILING AND WALL FOR LATERAL SUPPORT. LOCATE RACK TO PROVIDE 3 FEET OF CLEARANCE IN FRONT AND IN BACK. PROVIDE A LADDER RACK TO INTERCONNECT THE RELAY RACK TO THE WALL AND CABLE TRAY FOR ROUTING OF CABLE.

56. PROVIDE A 1" CONDUIT WITH 3 SETS OF ACCESS CONTROL CABLE (SEE CIRCUIT LABEL 15 IN CABLE SCHEDULE-4/E3.1) TERMINATE AT LOCATION OF ACCESS CONTROL GATE WHERE DIRECTED BY SECURITY VENDOR AND AT ACCESS CONTROL SYSTEM PANEL. STUB UP IN FS BOX FOR FUTURE USE. LABEL CABLE ENDS AND CIRCUITRY APPROPRIATELY.

57. PROVIDE A CAT 6 CABLE FROM EACH DEVICE IN THE ELECTRICAL FURNITURE PARTITIONS, ROUTED IN THE PARTITION COMMUNICATION CHANNELS, TO THE RACEWAY SYSTEMS PROVIDING ACCESS TO THE CEILING CAVITY. ROUTE IN CEILING CAVITY TO TERMINATION POINTS. PROVIDE JUNCTION BOXES, FLEXIBLE WHIP CONNECTORS AND EMT AS REQUIRED TO ACCOMMODATE QUANTITY AND SIZE OF CABLING. REFER TO SPECIFIC NOTE 24 AND NOTE 34 AND ADJUST ACCORDINGLY TO ACCOMMODATE CABLE NEEDS, SEE SPECIFIC NOTE 58

58. PROVIDE CAT 6 CABLING FROM EACH FLOOR DEVICE THROUGH THE RACEWAY ACCESS TO THE CEILING CAVITY. REFER TO SPECIFIC NOTES 13 AND 26, AND ADJUST SIZE AND-OR QUANTITY OF RACEWAYS AND FLOOR BOXES ACCORDINGLY TO ACCOMMODATE CABLE NEEDS.

59. CONTRACTOR SHALL FURNISH AND INSTALL A BICSI/ANSI/EIA/TIA STANDARD CPI TELE-COMMUNICATION GROUNDING COPPER BUS-BAR AS A SATELLITE/ANTENNAE GROUNDING ATTACHMENT USING UL. LISTED AND APPROVED MECHANICAL GROUNDING ATTACHMENTS. FURNISH AND INSTALL AN INSULATED #6AWG STRANDED COPPER CONDUCTOR FROM THE SATELLITE GROUNDING COPPER BUS-BAR TO THE MAIN GROUNDING COPPER BUS-BAR IN THE SERVER ROOM. MOUNT THE SATELLITE GROUNDING COPPER BUS-BAR WHERE DIRECTED BY OWNER IS REPRESENTATIVE.

60. PROVIDE A 12" x 12" JUNCTION BOX, 4" DEEP, IN CEILING CAVITY AT EACH DOOR LOCATION. ROUTE ALL CABLING TO BOX. PROVIDE EMT FROM BOX AS REQUIRED TO EACH DEVICE LOCATION AT RESPECTIVE DOOR. ROUTE CABLING FROM BOX THROUGH EMT TO DEVICES. SIZE EMT TO ACCOMMODATE CABLING.

61. PROVIDE A NEW CATV CONNECTION. FROM EACH OUTLET PROVIDE A SEPARATE RG6 COAXIAL CABLE WITH TYPE F CONNECTORS, UNSPLICED FROM SOURCE TO OUTLET. ROUTE TO THE CATV BACKBOARD. PROVIDE ALL REQUIRED CABLING, SPLITTERS, CONNECTORS, PLATES, RACEWAYS, ETC. AS REQUIRED AND AS DIRECTED BY THE CATV VENDOR AND IT REPRESENTATIVE.

62. CONTRACTOR SHALL FURNISH AND INSTALL A 120-VOLT, SINGLE-PHASE ELECTRICAL POWER SERVICE FOR THE ELECTRIFIED HINGE AND ELECTRIFIED IDH MORTISE LOCK. CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOXES, RACEWAY SYSTEMS, SUPPORT HARDWARE, ALL REQUIRED ACCESSORIES AND APPURTENANCES FOR A COMPLETE INSTALLATION. SEE NOTE 69.

63. PROVIDE REMOTE ANNUNCIATOR FOR GENERATOR. LOCATE IN ROOM WHERE DIRECTED BY ARCHITECT.

64. CONTRACTOR SHALL FURNISH AND INSTALL A 120-VOLT, SINGLE-PHASE ELECTRICAL POWER SERVICE FOR THE ELECTRIFIED IDH MORTISE LOCK SECURITY SYSTEMS HEAD-END PANEL-BOARD. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S IT REPRESENTATIVE. CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOXES, RACEWAY SYSTEMS, RACEWAY SYSTEM CONDUITY BODIES AND CONDUIT FITTINGS, SUPPORT HARDWARE, ALL REQUIRED ACCESSORIES AND APPURTENANCES FOR A COMPLETE INSTALLATION.

65. PROVIDE ALTERNATE LINE ITEM PRICE (SEE DIVISION 1) FOR EXTENSION OF POWER AND CCTV CIRCUITRY, CAMERA, TYPE SL1 FIXTURE, ETC.

66. PROVIDE TYPE EE FIXTURES UNDER THE COUNTER AROUND THE ENTIRE RECEPTION DESK. COORDINATE LENGTH AND QUANTITY TO ACCOMMODATE MILLWORK AND ARC OF COUNTER. MOUNT END TO END.

67. FURNISH AND INSTALL A TVSS PROTECTED PLUG-STRIP, WITH SIX OUTLET PLUGS MOUNTED TO THE RACKS AS DELINEATED. CONTRACTOR SHALL HARD-WIRE CONECTION OF PLUG-STRIP CORD TO THE ELECTRICAL POWER SERVICE BRANCH CIRCUIT CONDUCTORS. STRAP PLUG-STRIPS TO RACK SIDE RAILS. COORDINATE THE EXACT LOCATIONS AND MOUNTING WITH THE TENANT AND VENDOR PRIOR TO ROUGH-IN WORK. PLUG-STRIP SHALL BE WIREMOLD #AL-20IG-506.

68. DUCT DETECTORS PROVIDED UNDER DIVISION 16. COORDINATE STYLE, QUANTITY AND MOUNTING WITH DIVISION 15.

69. FURNISH AND INSTALL A JUNCTION BOX WITH 120-VOLT, SINGLE-PHASE, ELECTRICAL POWER SERVICE FOR THE SECURITY SYSTEM RELAYS IN AN ACCESSIBLE LOCATION IN THE CEILING CAVITY. COORDINATE REQUIREMENTS AND LOCATIONS WITH THE CARD ACCESS SYSTEM SECURITY VENDOR PRIOR TO ROUGH-IN WORK.

70. FURNISH AND INSTALL A FIRE ALARM SYSTEM COMBINATION AUDIBLE/VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED - UNLESS LABELED AS CEILING MOUNT - WHITE FINISH). CONNECT NOTIFICATION APPLIANCE TO THE ADDRESSABLE CIRCUIT LOOP PER THE CONTROL PANEL SPECIFICATIONS. ACTIVATION OF THE NOTIFICATION APPLIANCE SHALL BE PER THE SEQUENCE OF OPERATIONS. FURNISH AND INSTALL ALL NECESSARY WIRING, AUDIBLE AND VISUAL CABLES, BRANCH CIRCUITS, RELAYS, CONTROL MODULES, MONITOR MODULES, SIGNAL LINE CIRCUIT MODULES, PROGRAMMING REQUIREMENTS, FUNCTIONAL TESTING, ETC. AS REQUIRED TO ACCOMMODATE THE NOTIFICATION APPLIANCE. MOUNT NOTIFICATION APPLIANCE AT 80" ABOVE FINISHED FLOOR. ALL NOTIFICATION APPLIANCES CANDELA INTENSITY SHALL BE 15CD (OR 15/75CD FOR CORRIDORS) UNLESS OTHERWISE NUMERICALLY NOTED BY THE NOTIFICATION APPLIANCE SYMBOL. SEE NOTES 7 AND 8.

71. FURNISH AND INSTALL A THREE-POSITION, MOTORIZED PROJECTOR SCREEN MOMENTARY TYPE, "UP-RAISE/CENTER-OFF/DOWN-LOWER", TOGGLE SWITCH WIRING DEVICE PER THE MANUFACTURER'S SPECIFICATIONS AND WIRING DIAGRAMS. FURNISH AND INSTALL ALL POWER AND POWER-LIMITED, LOW-VOLTAGE CONDUCTORS/CABLES, CONDUIT, CONDUIT BODIES, CONDUIT FITTINGS, CONDUIT SUPPORT HARDWARE AND ACCESSORIES FOR A COMPLETE WORKING INSTALLATION. TERMINATE ALL WIRING, CONDUCTORS, CABLES PER THE MANUFACTURER'S SPECIFICATIONS AND TEST TORQUE LIMIT SWITCHES FOR PROPER OPERATIONS. LOCATION OF SWITCH TO BE AS DIRECTED BY ARCHITECT.

72. NOT USED.

73. CARD ACCESS READER DEVICE FLUSH-MOUNTED WALL OUTLET MOUNTED AT 48" TO CENTER OF OUTLET ABOVE FINISHED FLOOR. PROVIDE AS REQUIRED AND NECESSARY CARD ACCESS DEVICE, LOW-VOLTAGE PLENUM RATED CABLES, TERMINATION OF LOW-VOLTAGE CABLES, SECURITY SYSTEM HEAD-END CABINET TERMINATIONS, ETC.

74. PROVIDE A CCTV CAMERA MOUNTED ON THE LIGHTPOLE INDICATED AT 15' ABOVE FINISHED GRADE. ROUTE POWER/SIGNAL CABLING ON POLE AND PENETRATE POLE AT CAMERA. WEATHERSEAL PENETRATION. COORDINATE WITH POLE MANUFACTURES TO PROVIDE MOUNTING APPARTUS, WEATHERSEALING, PENETRATION, CABLE INSTALLATION, ETC. PROVIDE POWER (Ø.75") AND SIGNAL (1.00") CONDUITS ROUTED BETWEEN POLES AND FROM POLE TO TELCOM ROOM LOCATION OF SECURITY MONITORING SYSTEM.

75. PROVIDE A CCTV CAMERA MOUNTED ON THE ROOF PARAPET. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING DETAILS AND LOCATIONS. PROVIDE POWER (Ø.75") AND SIGNAL (1.00") CONDUITS FROM CAMERA LOCATIONS TO TELCOM LOCATION OF SECURITY MOUNTING SYSTEM.

76. CONTACTS, MAGNETIC LOCKS, ELECTRIC STRIKES, AND ALL RELATED LOW-VOLTAGE PLENUM RATED CABLES, CONNECTIONS, HEAD-END CABINET, SOFTWARE, SERVER DATA INPUT, COMMISSIONING, SET-UP, ETC. SHALL BE COMPLETED IN COORDINATION WITH THE SECURITY SYSTEM REPRSENTATIVE.

77. PROVIDE A COMPLETE PC BASED SECURITY AND ACCESS SYSTEM INCLUDING ALL SOFTWARE, HARDWARE, CONTACTS, DOOR LOCK HARDWARE, BUTTONS, CONNECTIONS, WIRING, ETC, AND ALL RELATED 120V POWER CIRCUITRY AS REQUIRED.

78. PROVIDE CABLE TRAY, OF BASKET DESIGN, 24" WIDE BY 6" DEPTH WITH ALL NECESSARY AND REQUIRED SUPPORT HARDWARE, SPLICE PLATES, CLIPS, ETC. MOUNT TO STRUCTURE ABOVE AND INSTALL FOLLOWING MANUFACTURER'S RECOMMENDATIONS. EQUIVALENT TO COOPER B-LINE BASKET TRAY. COORDINATE WITH OTHER DIVISIONS OF WORK, ESPECIALLY 15, FOR ROUTING AND RELATIONSHIP TO DUCT SYSTEMS, ETC. ROUTING SHOWN ON DRAWING IS TO ESTABLISH THE INTENT OF THE EXTENT OF TRAY AND AREAS TO BE COVERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW CONDITIONS AND COORDINATE WITH OTHER DISCIPLINES TO PROVIDE FOR A COMPLETE INSTALLATION IN CONCERT WITH OTHER SYSTEMS. SEE 2/E3.0 AND 3/E3.0

79. POWER FOR LAWN IRRIGATION SYSTEM. PROVIDE TOGGLE SWITCH DISCONNECT (WEATHERPROOF) AND HARD CONNECTION (OR RECEPTACLE IF REQUIRED- GFI/ WEATHERPROOF). COORDINATE EXACT LOCATIONS WITH SYSTEM VENDOR PRIOR TO ROUGH-IN AND ADJUST WORK ACCORDINGLY. CONNECT TO L2:31. #10 CONDUCTORS THROUGHOUT.

80. CONNECT TO VISUAL BOARD AS REQUIRED. COORDINATE EXACT REQUIREMENT WIH EQUIPMENT VENDOR PRIOR TO ROUGH-IN AND ADJUST WORK ACCORDINGLY.

81. PROVIDE A FIBER OPTIC CABLE INTERDUCT SYSTEM FOR CCTV SYSTEM. CABLE TO BE ORANGE COLOR THROUGHOUT AND UTILIZE SC STYLE CONNECTORS. TERMINATE ON THE DISTRIBUTION RACK. SEE SPECIFIC NOTE 82.

82. PROVIDE A RACK MOUNTED FIBER OPTIC DISTRIBUTION PANEL WITH SC STLYE CONNECTORS.

83. PROVIDE AND WIRE THROUGH A VARIABLE FREQUENCY DRIVE TO CONTROL AIR HANDLING UNIT. COORDINATE WITH DIVISION 15 FOR SIZING OF VFD, PROVIDE ALL REQUIRED AND NECESSARY COMPONENTS, MOUNTING HARDWARE, CIRCUITRY, ETC.

84. PROVIDE A 600 WATT, 120V, INCANDESCENT WALL-BOX DIMMER, LITHONIA SLD-1 SERIES DIMMER OR EQUIVALENT, WITH POSITIVE MECHANICAL OFF, SLIDE LEVER, FINISH AS DIRECTED BY ARCHITECT.

85. FOR WARMING CARTS, COORDINATE EXACT LOCATIONS PRIOR TO ROUGH-IN.

86. PROVIDE A PROJECTOR DROP-DOWN ELECTRIC PLATFORM, 120-VOLT, ELECTRICAL OUTLET WIRING DEVICE FLUSH-MOUNTED IN THE CEILING TILE (FACE DOWN) FOR RETRACTABLE PROJECTOR EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT PRIOR TO FINAL INSTALLATION LOCATION. FURNISH AND INSTALL PLATFORM, MOUNTING SUPPORTS AND ACCESSORIES TO SECURELY FASTEN THE PLATFORM TO THE CONCRETE SLAB STRUCTURE. PROVIDE AUDIO/VIDEO CABLING TO SERVER ROOM RACKS.

87. PROVIDE 4 11/16" DEVICE BOX WITH SINGLE PLATE, AND A Ø.75" CONDUIT STUBBED TO CEILING CAVITY. TERMINATE IN BUSHED END. PROVIDE BLANK DEVICE PLATE.

88. PROVIDE SHUNT TRIP FUNCTIONALITY FOR CIRCUITRY SERVING ELEVATOR SHAFT, CAB AND MACHINE ROOM, THROUGH RELAYS, COIL/CONTACTORS OR SHUNT TRIP BREAKERS. CONTROL SHUNT TRIP THROUGH FIRE ALARM SYSTEM SIGNAL. CONTROL SHALL BE ACTICATED BY INITIATION OF ALARM OF DETECTORS IN SHAFT OR MACHINE ROOM.

89. FURNISH AND INSTALL A REMOTE MOMENTARY CONTACT RELEASE SWITCH DEVICE TO RELEASE THE ELECTRIFIED IDH MORTISE LOCK IN PROXIMITY TO THE RECEPTIONIST DESK. COORDINATE EXACT PLACEMENT WITH ARCHITECT.

90. PROVIDE SOUND SYSTEM FOR CONNECTION TO AND INTERFACE WITH PROJECTION SYSTEM, INCLUDING AMPLIFIER (EQUIVALENT TO INTEGRA 5.3) AND SIX (6) PHASE TEC FLUSH MOUNTED CEILING SPEAKERS. CONNECT TO SYSTEM. PROVIDE ALL REQUIRED AUDIO WIRING, POWER CIRCUITRY, CONTROL CIRCUITRY, VOLUME CONTROL (REMOTE, WALL MOUNTED), ETC. COORDINATE WITH ARCHITECT FOR LOCATION OF AMPLIFIER INSTALLATION.

91. PROVIDE A MIMIC ANNUNCIATOR PANEL TO ACCOMMODATE AUDIO, VIDEO AND OPERATIONAL CONTROLS WITH INTERFACE PORTS FOR CONNECTION OF PERIPHERAL AV APPLIANCES. PROVIDE ALL NECESSARY PATCH CABLES FOR INTERCONNECTION AND MIMIC INTERFACE, INCLUDING VGA CABLES, VIDEO CABLES, LR AUDIO CABLES, PC AUDIO CABLES, IN LENGTHS AND QUANTITIES AS REQUIRED, WITH ALL NECESSARY CONNECTORS.

GENERAL NOTES:

1. ALL CONVENIENCE OUTLETS, (SIMPLEX, DUPLEX, QUADRAPLEX) WHERE WALL MOUNTED VERTICALLY, SHALL BE INSTALLED WITH GROUNDING POINT UP. WHERE WALL MOUNTED HORIZONTALLY, THE NEUTRAL SPADE WILL BE UP.

2. FURNISH AND INSTALL A FIRE ALARM SYSTEM, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY WIRING, CONNECTIONS, DEVICES, POWER SUPPLIES, CARDS, ETC. CONTRACTOR TO FURNISH AND INSTALL ALL REQUIRED FIRE ALARM SYSTEM COMPONENTS, AND PROVIDE ALL NECESSARY WIRING.

3. ALL 125V., SINGLE PHASE, 15 AND 20 AMP. RECEPTACLE OUTLETS THAT ARE USED AS TEMPORARY POWER DURING CONSTRUCTION BY PERSONNEL SHALL HAVE GFI PROTECTION FOR PERSONNEL.

4. ALL JUNCTION BOXES SHALL BE CLEARLY MARKED WITH INDELIBLE MARKER ON THE COVER FACE WITH THE CIRCUIT NUMBER AND PANEL NAME FOR ALL CIRCUITS WITHIN RESPECTIVE BOX. LABEL 'NORMAL' CIRCUITRY IN BLACK LETTERING AND 'EMERGENCY' CIRCUITRY IN RED LETTERING.

5. CONTRACTOR TO REMOVE TRIM COVER PLATES, FIXTURES, ETC. FROM WALLS AND CEILINGS AS REQUIRED TO ACCOMMODATE PAINTING, WALL FINISHING, ETC. THROUGHOUT AREAS OF WORK.

6. FURNISH AND INSTALL A CATV SYSTEM, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY WIRING, CONNECTIONS, DEVICES, POWER, SUPPLIES, CARDS, ETC. CONTRACTOR TO FURNISH AND INSTALL ALL REQUIRED CATV SYSTEM COMPONENTS, AND PROVIDE ALL NECESSARY WIRING.

7. ALL CABLING, RACEWAYS, ETC INSTALLED IN THE CEILING CAVITY SHALL BE BUNDLED, STRAPPED AND SUPPORTED PROPERLY. ALL COMMUNICATION CABLING SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE.

8. FURNISH AND INSTALL A VOICE SYSTEM, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY WIRING, CONNECTIONS, DEVICES, POWER SUPPLIES, CARDS, ETC. CONTRACTOR TO FURNISH AND INSTALL ALL REQUIRED VOICE SYSTEM COMPONENTS, AND PROVIDE ALL NECESSARY WIRING.

9. ALL PENETRATIONS, SLEEVES, OPENINGS, ETC., THROUGH SMOKE OR FIRE RATED WALLS, CEILINGS, OR FLOORS SHALL BE PROPERLY CAULKED WITH AN APPROVED FIRE CAULKING MATERIAL, APPROVED BY ENGINEER, UNLESS OTHERWISE NOTED.

10. CONTRACTOR IS RESPONSIBLE FOR ALL CHARGES RELATED TO SUBMITTAL REVIEW INCLUDING COURIER AND MAILING CHARGES. CONTRACTOR MUST PROVIDE PRE-PAID AND PRE-ADDRESSED PACKAGING WITH THE SUBMITTAL PACKAGE OR RETRIEVE THE PACKAGE AFTER REVIEW TO FORWARD TO THE APPROPRIATE AGENCY.

11. FIRE CAULK ALL PENETRATIONS THROUGH FIRE RATED OR SMOKE RATED CEILINGS, WALLS OR PARTITIONS WITH AN APPROVED FIRE CAULK MATERIAL. SUBMIT CATALOG SPECIFICATION SHEET FOR APPROVAL.

12. PROVIDE BONDING JUMPER GROUND CONNECTION IN ALL BOXES, ENCLOSURES, ETC., FROM THE EQUIPMENT GROUNDING CONDUCTOR.

13. ALL RECEPTACLE WIRING DEVICES AND COMMUNICATION WIRING DEVICES SHALL BE IDENTIFIED WITH A CLEAR ADHESIVE TYPE LABEL WITH BLACK LETTERS PLACED ON THE WIRING DEVICES' COVER PLATE.

14. COMMUNICATION CABLES SHALL BE SUPPORTED PER BICSI AND EIA/TIA STRUCTURED CABLING SUPPORTING METHODS AND STANDARD PRACTICES. ALL STRUCTURED CABLING SUPPORTING HARDWARE, MATERIALS, TIE-STRAPS, ETC., SHALL BE PLENUM RATED IN ENVIRONMENTAL RETURN AIR PLENUMS.

15. FURNISH AND INSTALL A NETWORK DATA SYSTEM, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY WIRING, CONNECTIONS, DEVICES, POWER SUPPLIES, CARDS, ETC. CONTRACTOR TO FURNISH AND INSTALL ALL REQUIRED NETWORK SYSTEM COMPONENTS, AND PROVIDE ALL NECESSARY WIRING.

16. FURNISH AND INSTALL A LIGHTNING PROTECTION SYSTEM, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY CONNECTIONS, TERMINALS, DOWLOADS, CONDUCTORS, ETC. CONTRACTOR TO FURNISH AND INSTALL ALL REQUIRED LIGHTNING PROTECTION SYSTEM COMPONENTS, AND PROVIDE ALL NECESSARY WIRING.

17. FURNISH AND INSTALL INFRASTRUCRTRE FOR A PNEUMATIC TUBE PAYMENT KIOSK SYSTEM, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY WIRING, CONNECTIONS, DEVICES, POWER, SUPPLIES, ETC. CONTRACTOR TO FURNISH AND INSTALL ALL REQUIRED SYSTEM COMPONENTS, AND PROVIDE ALL NECESSARY WIRING.

18. FURNISH AND INSTALL AN EMERGENCY STAND-BY POWER SYSTEM AND DISTRIBUTION, INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY WIRING, CONNECTIONS, DEVICES, ETC. CONTRACTOR TO FURNISH AND INSTALL ALL REQUIRED SYSTEM COMPONENTS, AND PROVIDE ALL NECESSARY WIRING.

19. CONTRACTOR SHALL COVER ALL INITIATING DEVICES AND NOTIFICATION APPLIANCES TO PREVENT DAMAGE TO DEVICES AND APPLIANCES FROM DIRT AND DUST ACCUMULATION DURING CONSTRUCTION WORK.

20. COORDINATE WITH THE ARCHITECT, ARCHITECTURAL DRAWING NOTES, DRAWING ELEVATIONS, DRAWING SECTIONS, AND FF&E PACKAGE, SPECIFICATIONS FOR ALL RECEPTACLE AND COMMUNICATION WIRING DEVICE OUTLETS' MOUNTING HEIGHTS AND EXACT MOUNTING LOCATIONS PRIOR TO COMMENCEMENT OF ROUGH-IN WORK.

21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CAVITY HEIGHT AND CLEARANCE, AND TO PROVIDE LIGHTING FIXTURES ACCOMMODATING THE CLEARANCE DIMENSIONS.

22. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL LIGHT FIXTURES TO ENSURE THAT THE LIGHT FIXTURES DO NOT INTERFERE WITH ANY STRUCTURAL, MECHANICAL, OR PLUMBING COMPONENTS AND EQUIPMENT. RELOCATE ANY LIGHT FIXTURES DUE TO INTERFERENCES WITH STRUCTURAL, MECHANICAL, OR PLUMBING COMPONENTS AND EQUIPMENT. COORDINATE RELOCATION WITH ARCHITECT.

23. ALL PENETRATIONS THROUGH SOUND, SECURITY OR FIRE WALLS SHALL BE SLEEVED FOR MECHANICAL PROTECTION. ALL PENETRATIONS AND SLEEVES SHALL BE SEALED WITH CAULKING AND INTUMESCENT MATERIAL (WHERE APPROPRIATE) TO MAINTAIN RESPECTIVE RATINGS OF WALL.

24. ANY THIMBLES OR SLEEVES USED FOR ROUTING ELECTRICAL CONDUCTORS OR COMMUNICATION CABLES SHALL BE CAULKED WITH AN APPROVED FIRE RATED CAULKING OR ANOTHER APPROVED U.L. LISTED METHOD OF FIRE SEALING THE THIMBLES OR SLEEVES.

25. AT EACH COMMUNICATION AND CATV DEVICE LOCATION, PROVIDE AN APPLIANCE PATCH CABLE, 6 FEET IN LENGTH, FOR EACH DEVICE PLATE PORT POSITION. PATCH CABLE TO MATCH RESPECTIVE CABLE TYPE AND COLOR TO MATCH DEVICE PORT INSERT COLOR. PROVIDE FOR CATV, VOICE AND DATA CONNECTIONS TO OWNER APPLIANCES. PROVIDE CABLE, RJ45 OR F CONNECTORS ON EACH END, AND BOOTS ON CONNECTORS.

26. ALL COMMUNICATION CABLING, DEVICES, RACKS, EQUIPMENT, LABELING, ETC, WILL BE PROVIDED AS PART OF THIS CONTRACT. ALL COMPONENTS WILL BE SUBMITTED TO ENGINEER AND OWNER FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL.

27. CONTRACTOR SHALL PREPARE AND SUBMIT A CABLE PLANT DRAWING DEPICTING THE CABLE LAYOUT, EQUIPMENT LAYOUT, CONNECTION AND TERMINATION TYPICAL DETAILS, ETC. SUBMIT AND AWAIT APPROVAL PRIOR TO COMMENCING WORK. ADJUST WORK ACCORDING TO REVIEW COMMENTS.

28. ALL DEVICES TO BE KEYSTONE RJ45 STYLE INTERFACE FOLLOWING TIA/EIA-568B STANDARD. CABLING TO BE CATEGORY 6 FOLLOWING ISO 11801 STANDARD, AND ACHIEVING 10.8dB ACR AT 200 MHZ. LABELING AND DOCUMENTATION OF CABLES TO CONFORM TO TIA/EIA 606 STANDARD, WITH MACHINE-GENERATED LABELS. LABELS WILL BE PROVIDED AT EACH CABLE END, WITHIN 4" OF TERMINATION JACK. COLOR SCHEME OF CABLES MUST MATCH COLOR SCHEME OF INSERTS AND PORTS.

29. LABELS TO INCLUDE THE ROOM SUFFIX, DEVICE POSITION IN ROOM, PORT NUMBER ON DEVICE, HUB-PATCH PANEL IDENTIFIER, PORT NUMBER OF HUB-PANEL.

30. WIRING STANDARD TO BE T568B.

31. AT END OF PROJECT, CONTRACTOR SHALL FURNISH A PRINT OF THE CABLE PLANT DRAWING WITH COMMUNICATION AND SECURITY SYSTEMS DEVICES INDICATING ALL AS-BUILT DEVICES AND EQUIPMENT LOCATIONS AND ALL CABLING WITH IDENTIFYING LABELING INDICATED. PROVIDE IN A 24" x36 " FORMAT, FRAMED, CLEAR LAMINATED FOR PROTECTION, MOUNTED IN THE SERVER ROOM FOR REFERENCE.

32. IF REQUESTED, ENGINEERING DESIGN ASSOCIATES, L.L.C. WILL PROVIDE ELECTRONIC COPY OF THE DIVISION 15 AND 16 SYSTEMS RELATED TO THIS PROJECT FOR THE PURPOSES OF PREPARATION OF SHOP DRAWINGS BY THE CONTRACTOR OR HIS SUB-CONTRACTORS. COPY WILL BE PROVIDED AT A COST OF $45.00 PER FILE, PAYABLE AT TIME OF ISSUE, AND WITH THE SIGNING OF A DISCLAIMER FOR THE USE OF THE FILE.

33. ALL FIBER OPTIC CABLE SHALL BE INSTALLED IN CONDUIT.

34. REFER TO DRAWINGS OF OTHER DIVISIONS OF WORK, ESPECIALLY DIVISION 15, FOR LOCATIONS OF EQUIPMENT TO BE CONNECTED OR INTERFACED WITH DIVISION 16.

35. CONTRACTOR TO PREPARE AND SUBMIT DETAILED SCALED AND DIMENSIONED DRAWINGS OF ALL THE CONTRACTOR PROVIDED EQUIPMENT AND COMPONENTS IN ROOMS 221, 222, 225 AND 163B FOR ARCHITECT REVIEW AND OWNER COORDINATION. ADJUST LAYOUT AND WORK ACCORDINGLY TO REVIEW COMMENTS.

36. LOCATE ALL BOXES, FITTINGS, ENCLOSURES, ETC. REQUIRING ACCESS AND DEVICES, ETC AT NON-ACCESSIBLE CEILINGS, IN ADJACENT AREAS WHERE THERE ARE ACCESSIBLE CEILINGS.

37. COORDINATE WITH DIVISION 15 FOR INSTALLATION OF SMOKE-HEAT DETECTORS. DO NOT INSTALL DETECTORS WITHIN THREE FEET OF AN AIR SUPPLY GRILL OR DIFFUSER.

38. PROVIDE A 6" THICK CONCRETE EQUIPMENT PAD UNDER ALL ELECTRICAL ELECTRICAL PANELS THAT ARE FLOOR MOUNTED. PAD TO BE SIZED 3" LARGER ON ALL SIDES THAN THE RESPECTIVE EQUIPMENT FOOTPRINT. CHAMFER EDGES 45 DEGREES.

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SPECIFIC NOTES
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