RECEPTACLE SYMBOLS

SYMBOL	DESCRIPTION
5	DUPLEX RECEPTACLE – GROUNDING TYPE – MOUNTED 18" A.F.F. UNLESS OTHERWISE INDICATED. NUMERAL INDICATES CIRCUIT NUMBER.
	DUPLEX RECEPTACLE – GROUNDING TYPE – MOUNTED AT 42" AFF OR 6" ABOVE COUNTER TOP OR BACK SPLASH WHERE EXISTENT.
C	QUAD RECEPTACLE – GROUNDING TYPE – MOUNTED AT 18" AFF UNLESS OTHERWISE INDICATED. "C" INDICATES MOUNTED 42" AFF OR 6" ABOVE COUNTER.
	DUPLEX RECEPTACLE – GROUNDING TYPE – GROUND FAULT INTERRUPTING TYPE – MOUNTED 18" AFF UNLESS OTHERWISE INDICATED.
EWC	DUPLEX RECEPTACLE – GROUNDING TYPE – GROUND FAULT INTERRUPTING TYPE – EWC INDICATES ELECTRIC WATER COOLER – PRIOR TO ROUGHING, REFER TO ELECTRIC WATER COOLER MANUFACTURERS EXACT RECOMENDATIONS/MOUNTING HEIGHT/SPECIFIC LOCATION FOR RECEPTACLE AND POWER REQUIREMENTS.
	DUPLEX RECEPTACLE – GROUNDING TYPE – GROUND FAULT INTERRUPTING TYPE – MOUNTED 42" AFF OR 6" ABOVE COUNTER TOP OR BACK SPLASH WHERE EXISTENT.
	DUPLEX RECEPTACLE – ISOLATED GROUND TYPE – MOUNTED AT 18" AFF UNLESS OTHERWISE INDICATED.
	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE; REFER TO SPECIFICATIONS.
	FLOOR OUTLET BOX WITH DOUBLE DUPLEX RECEPTACLE; REFER TO SPECIFICATIONS.
	CEILING MOUNTED BOX WITH DUPLEX RECEPTACLE; REFER TO SPECIFICATIONS.
A	SPECIAL PURPOSE RECEPTACLE – "A" INDICATES TYPE AS SHOWN ON DRAWINGS OR IN SPECIFICATIONS.
A	SPECIAL PURPOSE RECEPTACLE – FLOOR OUTLET BOX – "A" INDICATES TYPE AS SHOWN ON DRAWINGS OR IN SPECIFICATIONS.
	JUNCTION BOX.
	POWER POLE.

CONDUIT AND WIRE SYMBOLS

SYMBOL	DESCRIPTION
LA–1,3,5	HOMERUN TO PANELBOARD "LA", CIRCUIT NUMBERS 1,3,5. DIAGONAL LINES INDICATE NUMBER OF PHASE AND NEUTRAL WIRES, NO DIAGONAL LINES INDICATES 1/2"C.– 2#12 & 1#12 GND., UNLESS OTHERWISE NOTED.
	RACEWAY CONCEALED IN CEILING OR WALLS, OR EXPOSED IN UNFINISHED AREAS.
	RACEWAY CONCEALED IN FLOOR SLAB.
	CONDUIT UP.
	CONDUIT DOWN.
	FLEXIBLE RACEWAY; SIZE AS REQUIRED.

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
A 2 b	CEILING OR WALL, SURFACE OR RECESSED MOUNTED FLUORESCENT LIGHTING FIXTURE; "A" DENOTES TYPE (REFER TO FIXTURE SCHEDULE), NUMERAL DENOTES CIRCUIT NUMBER, "b" DENOTES FIXTURE CONTROLLED BY SWITCH "b".
A 2 b	SURFACE MOUNTED STRIP FLUORESCENT LIGHTING FIXTURE, "A" DENOTES TYPE (REFER TO FIXTURE SCHEDULE), NUMERAL DENOTES CIRCUIT NUMBER, "b" DENOTES FIXTURE CONTROLLED BY SWITCH "b".
B 3 b	CEILING RECESSED OR SURFACE MOUNTED INCANDESCENT, COMP. FLUOR. OR HID LIGHTING FIXTURE. "B" DENOTES TYPE, NUMERAL DENOTES CIRCUIT NUMBER, AND "b" DENOTES FIXTURE CONTROLLED BY SWITCH "b". (WALL MOUNTED).
	EXIT LIGHT CEILING MOUNTED WITH DIRECTIONAL ARROW AS INDICATED ON PLAN. (WALL MOUNTED WITHOUT ARROWS).
A	WALL WASHING LIGHTING FIXTURE; ARROW INDICATES AIMING. SEE FIXTURE SCHEDULE FOR MOUNTING.
	TRACK LIGHTING WITH QUANTITY OF LIGHTHEADS AS INDICATED ON PLANS.
NL NL	LIGHTING FIXTURE WIRED TO NIGHT OR EMERGENCY LIGHTING CIRCUIT. REFER TO DETAIL E7.01/1.
EBU	EMERGENCY BATTERY UNIT WITH UNIT MOUNTED LIGHTHEADS. NUMBER OF LIGHTHEADS AS INDICATED ON PLANS. MCPHILBEN #CTXR6L24WCSWF WITH (2) 12W HALOGEN LAMPS.
	REMOTE EMERGENCY LIGHTHEAD.
EB	EMERGENCY BATTERY UNIT WITH REMOTE LIGHTHEADS AS INDICATED ON PLANS.

SWITCHING DESIGNATIONS

SYMBOL	DESCRIPTION
S	SINGLE POLE SWITCH MOUNTED 4'–0" AFF.
S^2	TWO POLE SWITCH MOUNTED 4'–0" AFF.
S^3	THREE WAY SWITCH MOUNTED 4'–0" AFF.
S^D	DIMMER SWITCH MOUNTED 4'–0" AFF.
S^K	SINGLE POLE SWITCH – KEY OPERATED – MOUNTED 4'–0" AFF.
S^M	MOTOR RATED SWITCH WITH THERMAL OVERLOAD PROTECTION.
S^P	SINGLE POLE SWITCH AND PILOT LIGHT MOUNTED 4'–0" AFF.
S^L	LOW VOLTAGE SWITCH 4'–0" AFF.
PC	PHOTOCELL CONTROL DEVICE FOR EXTERIOR LIGHTING. REFER TO DETAIL 7.01/2.
	DUAL TECHNOLOGY OCCUPANCY SENSOR; CEILING MOUNTED. REFER TO DETAIL E7.01/4.
W	DUAL TECHNOLOGY OCCUPANCY SENSOR MOUNTED 4'–0" AFF. REFER TO DETAIL E7.01/3.

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
F	FIRE ALARM PULL STATION MOUNT BOTTOM OF DEVICE AT 4'–0" AFF.
110cd	FIRE ALARM HORN / STROBE COMBINATION MOUNT BOTTOM OF DEVICE AT 6'–8" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER. "110cd" DENOTES STROBE CANDELA RATING. NO "cd" VALUE INDICATES PROVIDE "75cd" STROBE.
110cd	FIRE ALARM STROBE ONLY. MOUNT BOTTOM OF DEVICE AT 6'–8" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER. "110cd" DENOTES STROBE CANDELA RATING. NO "cd" VALUE INDICATES PROVIDE "75cd" STROBE.
M	FIRE ALARM MINI–HORN / STROBE COMBINATION MOUNT BOTTOM OF DEVICE 6'–8" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.
135° F	FIRE ALARM HEAT DETECTOR, FIXED TEMPERATURE TYPE. "135" INDICATES TEMPERATURE SETTING.
135° R	FIRE ALARM HEAT DETECTOR, COMBINATION RATE OF RISE / FIXED TEMPERATURE. "135" INDICATES TEMPERATURE SETTING.
S	FIRE ALARM SMOKE DETECTOR.
D S	FIRE ALARM DUCT TYPE SMOKE DETECTOR.
E S	FIRE ALARM SMOKE DETECTOR WITH AUXILIARY CONTACTS FOR CROSS ZONING (ELEV. LOBBY).
R S	FIRE ALARM SMOKE DETECTOR WITH RELAY BASE.
TS	TAMPER SWITCH.
FS	FLOW SWITCH.
PS	PRESSURE SWITCH.
FACP	FIRE ALARM CONTROL PANEL.
FAA	FIRE ALARM ANNUNCIATOR PANEL.
TPR	TRANSPONDER.
	REMOTE (LED) INDICATOR LIGHT.
	EXTERIOR STROBE LIGHT.
	FIRE ALARM MASTER BOX. SEE SPECIFICATIONS FOR MOUNTING.
K	FIRE ALARM KEY LOCK BOX.
RTS	DUCT SMOKE DETECTOR REMOTE INDICATOR/TEST STATION MOUNTED 6'–8" AFF OR 6" BELOW FINISHED CEILING WHICHEVER IS LOWER.

COMMUNICATION AND SIGNAL SYMBOLS

SYMBOL	DESCRIPTION
W	TELEPHONE OUTLET; MOUNTED 18" AFF, 4" SQUARE BOX WITH SINGLE GANG PLASTER RING, 3/4" CONDUIT STUBBED UP 6" ABOVE CEILING AT 90 DEGREE ANGLE. TERMINATE WITH PLASTIC BUSHING. "W" INDICATES MOUNTED 54" AFF. "P" INDICATES PAY PHONE. "c" INDICATES MOUNTED 42" AFF OR 6" ABOVE COUNTER.
	DATA OUTLET; MOUNTED 18" AFF, 4" SQUARE BOX WITH SINGLE GANG PLASTER RING, 3/4" CONDUIT STUBBED UP 6" ABOVE CEILING AT 90 DEGREE ANGLE. TERMINATE WITH PLASTIC BUSHING. "W" INDICATES MOUNTED 54" AFF. "C" INDICATES MOUNTED 42" AFF OR 6" ABOVE COUNTER.
	COMBINATION DATA/TELEPHONE OUTLET; MOUNTED 18" AFF, 4" SQUARE BOX WITH SINGLE GANG PLASTER RING, 3/4" CONDUIT STUBBED UP 6" ABOVE CEILING AT 90 DEGREE ANGLE. TERMINATE WITH PLASTIC BUSHING. "W" INDICATES MOUNTED 54" AFF. "C" INDICATES MOUNTED 42" AFF OR 6" ABOVE COUNTER.
	FLOOR OUTLET BOX WITH COMBINATION DATA/TELEPHONE OUTLET; REFER TO SPECIFICATIONS.
LCD TV	TELEVISION OUTLET MOUNTED AT 80" AFF.
	CLOCK HANGER RECEPTACLE MOUNTED AT 7'–6" AFF. UNLESS OTHERWISE NOTED.
V5	VIDEO PROJECTOR OUTLET MOUNTED 18" AFF. UNLESS OTHERWISE NOTED. REFER TO TECHNOLOGY OUTLET CONFIGURATION DRAWINGS FOR DETAILS.

SECURITY SYMBOLS

SYMBOL	DESCRIPTION
	SECURITY MOTION DETECTOR (CEILING MOUNTED RADIAL TYPE).
	SECURITY MOTION DETECTOR (WALL MOUNTED DIRECTIONAL TYPE).
RTE	CARD ACCESS SYSTEM – MOTION DETECTOR – WALL MOUNTED DIRECTIONAL – RTE INDICATES REQUEST TO EXIT.
DS	CARD ACCESS SYSTEM – DOOR SECURITY SWITCH.
KP	KEY PAD.
CR	CARD ACCESS SYSTEM – CARD KEY ACCESS READER.
DL	CARD ACCESS SYSTEM – DOOR LOCK (ELECTRIC STRIKE).
	SIREN.
RTE	CARD ACCESS SYSTEM – PUSHBUTTON STATION – RTE INDICATES REQUEST TO EXIT.
	CLOSED CIRCUIT TV CAMERA.
	CLOSED CIRCUIT TV CAMERA – DOME TYPE – CEILING MOUNTED.

PANEL BOARDS AND TERMINAL CABINETS

SYMBOL	DESCRIPTION
	SURFACE MOUNTED 120/208 VOLT PANELBOARD 6'–6" A.F.F. TO TOP. (FLUSH MOUNTED).
LCP LCP	SURFACE MOUNTED LIGHTING CONTROL PANEL 6'–6" A.F.F. TO TOP. (FLUSH MOUNTED).
	SURFACE MOUNTED 120/208 MAIN DISTRIBUTION BOARD
	SURFACE MOUNTED 277/480 MAIN DISTRIBUTION BOARD
M	UTILITY METER

MOTORS, EQUIPMENT, AND CONTROLS

SYMBOL	DESCRIPTION
2	MOTOR. NUMERAL INDICATES HORSEPOWER.
	NON–FUSED DISCONNECT SWITCH. 3 POLE, 30 AMP, UNLESS OTHERWISE NOTED.
30A 20A	FUSED 3 POLE DISCONNECT SWITCH. "30A" DENOTES SWITCH SIZE, "20A" DENOTES FUSE SIZE.
	MAGNETIC MOTOR STARTER.
30A 20A	COMBINATION STARTER/NON–FUSED DISCONNECT SWITCH. 3 POLE, 30 AMP SWITCH, WITH NEMA SIZE 1 STARTER UNLESS OTHERWISE NOTED. (WITH FUSED DISCONNECT SWITCH).
TIME	TIME CLOCK. REFER TO SPECIFICATIONS.
C	CONTACTOR. REFER TO SPECIFICATIONS.
	PUSHBUTTON STATION.
	PROGRAM OR DOOR BELL.
R	RELAY

GENERAL ABBREVIATIONS

ABBREVIATION	DEFINITION
A	AMPERE
AFF	ABOVE FINISH FLOOR
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT (GENERIC NAME FOR RACEWAY) PROVIDE AS SPECIFIED
CB	CIRCUIT BREAKER
CKT	CIRCUIT
℄	CENTERLINE
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
FA	FIRE ALARM
FP	FIRE PROTECTION SYSTEM INSTALLER
GC	GENERAL CONTRACTOR
GEN	GENERATOR
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HDCP	HANDICAPPED ACCESSIBLE
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
INCL	INCLUDED WITH EQUIPMENT
JB	JUNCTION BOX
kCMIL	THOUSAND CIRCULAR MILS
kVA	KILO–VOLT AMPERE
kW	KILO–WATT
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MSB	MAIN CIRCUIT BREAKER
MTS	MANUAL TRANSFER SWITCH
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
NO. #	NUMBER
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY AS APPROVED BY OSHA AND LOCAL AUTHORITIES
NL	NIGHT LIGHT
PC	PLUMBING SYSTEM INSTALLER
PH	PHASE
PIR	PASSIVE INFRARED
PVC	POLY–VINYL CHLORIDE CONDUIT
RGS	RIGID GALVANIZED STEEL
TC	TELECOMMUNICATIONS CABLE INSTALLER
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY LISTING
U.O.S.	UNLESS OTHERWISE INDICATED
V	VOLT
W	WATT
WP	WEATHERPROOF
XFR	TRANSFORMER
XP	EXPLOSION PROOF

DEMOLITION ABBREVIATIONS

ER	EXISTING DEVICE SHALL REMAIN
EX	EXISTING DEVICE SHALL BE REMOVED
XR	EXISTING DEVICE SHALL BE RELOCATED
XRE	EXISTING DEVICE RELOCATED TO LOCATION SHOWN ON RENOVATION DRAWINGS

THREE PHASE AND SINGLE PHASE CIRCUIT SCHEDULE NOTES

1. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CONDUCTORS AND RACEWAY WHERE INDICATED.
2. PROVIDE TYPE AND MINIMUM SIZE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATION OR ON THE DRAWINGS
3. PROVIDE NEUTRAL IN CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.
4. MINIMUM SIZE CONDUIT FOR SCHEDULE 80 OR ENT IS ONE STANDARD ELECTRICAL SIZE LARGER THAN INDICATED IN THE SCHEDULE. PROVIDE LARGER CONDUIT WHERE SPECIFICALLY INDICATED OTHERWISE. DO NOT INSTALL PVC INDOORS.
5. PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH EACH FEEDER AND BRANCH CIRCUIT.
6. PROVIDE ADDITIONAL ISOLATED GROUND CONDUCTOR SAME SIZE AS THE EQUIPMENT GROUND. IN CIRCUITS TO ISOLATED GROUND PANELS OR DEVICES, GREEN WITH YELLOW STRIPE.
7. FOR PANELS WITH 200% NEUTRAL PROVIDE 200% NEUTRAL USING TWO PHASE SIZED CONDUCTORS IF SIZE #1/0 OR LARGER, OTHERWISE PROVIDE (1) #3/0 NEUTRAL.
8. PROVIDE SEPARATE INDIVIDUAL NEUTRAL FOR ALL CIRCUITS EXCEPT LIGHTING CIRCUITS. PROVIDE A DEDICATED NEUTRAL FOR GFCI OR AFCI CIRCUITS.
9. CIRCUIT SIZING BASED ON 600 VOLT 90°C RATED INSULATION. INTERIOR TYPE THHN/THWN–2 OR XHHW–2 (LARGER THAN SIZE #6), FOR EXTERIOR OR BELOW GRADE UTILIZE RHW–2/USE–2 IN CONDUIT ONE SIZE LARGER. SIZING BASED ON 60°C AMPACITIES FOR 100A OR LESS AND 75°C AMPACITIES OVER 100A.
10. FOR SERVICE ENTRANCE CONDUCTORS IT IS NOT REQUIRED TO INSTALL THE GROUNDING CONDUCTOR. THE NEUTRAL CONDUCTOR IS FULL SIZED AND IS BONDED TO THE GROUNDING ELECTRODE CONDUCTOR AT THE TRANSFORMER AND THE SERVICE DISCONNECT.
11. FOR BATTERY CABLES, INSTALL AND GROUP IN PAIRS (ONE POSITIVE AND ONE NEGATIVE CONDUCTOR) MARK POSITIVE CONDUCTOR WITH 5 OVERLAPPING WRAPS OF RED ELECTRICAL TAPE ON EACH END.

PROJECT NOTES

1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED UNLESS OTHERWISE SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS, AND COORDINATION WITH ALL TRADES SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK, UNLESS SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
2. WORK AT A MINIMUM SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODE AND AUTHORITIES. DO NOT INSTALL WORK THAT DOES NOT MEET THE MINIMUM REQUIREMENTS. IF NECESSARY, REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING.
3. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY INDICATED OR MENTIONED.
4. VISIT THE SITE TO DETERMINE PRE–EXISTING CONDITIONS AND WORK NECESSARY PRIOR TO SUBMISSION OF BID PRICE. SUBMIT ANY QUESTIONS REQUIRED TO CLARIFY SCOPE PRIOR TO BID. INCLUDE ALL REQUIRED WORK IN BID PRICE.
5. INCLUDE IN BID WHATEVER IS REQUIRED TO MEET SCHEDULE INCLUDING OVERTIME, EXPRESS SHIPPING, EXPEDITING EQUIPMENT, ETC. PLAN PROJECT AND SUBMIT SHOP DRAWING AND ORDER EQUIPMENT IN A TIMELY MANNER, EQUIPMENT SHALL BE BASED ON THE SPECIFIED EQUIPMENT.
6. ANY EQUIPMENT TO BE SUBSTITUTED SHALL BE IDENTIFIED AT TIME OF BID. REFER TO SPECIFICATIONS.
7. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.
8. PROVIDE TRAINING TO OWNER ON ALL EQUIPMENT AND SYSTEMS INSTALLED.
9. TEMPORARY LIGHTING AND POWER SHALL BE PROVIDED AS REQUIRED BY OSHA, CODES AND LOCAL AUTHORITIES. REMOVE ALL TEMPORARY FACILITIES PROVIDED AT PROJECT COMPLETION.

INSTALLATION COORDINATION NOTES

1. PRIOR TO ROUGH–IN OF ELECTRICAL PROVISIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES, COORDINATE WITH THE GENERAL CONTRACTOR, EQUIPMENT SHOP DRAWINGS AND APPLICABLE EQUIPMENT INSTALLER FOR EXACT LOCATION AND WIRING REQUIREMENTS. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND ACCESSORIES FOR COMPLETE INSTALLATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E. POWER, CONTROL, INTERLOCK, ETC.
2. ELECTRICAL EQUIPMENT, RACEWAYS AND OUTLETS MOUNTED TO AND OR INSTALLED IN OWNER FURNISHED FURNITURE SHALL BE COORDINATED WITH THE EQUIPMENT AND FURNITURE INSTALLERS AND THE GENERAL CONTRACTOR PRIOR TO ROUGH–IN. EXCEPT WHERE INDICATED OR REQUIRED OTHERWISE.
3. IF EXACT LOCATION, MOUNTING OR RACEWAY ROUTING ARE NOT INDICATED OR ARE NOT CLEAR OR CONFLICT (LOCATION OR HEIGHT) COORDINATE WITH OTHER TRADES AND REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.

WIRING NOTES

1. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED FOR ALL SWITCHES, AND OUTLETS INDICATED WITH CIRCUIT NUMBERS. PROVIDE 3/4"C., 3#12 UNLESS OTHERWISE INDICATED. WIRE AND CONDUIT SIZES INDICATED ON HOME RUNS SHALL BE CONTINUOUS THROUGHOUT CIRCUIT, REFER TO VOLTAGE DROP CHART ON DRAWING E0.2. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
3. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (PHASE AND NEUTRALS) AND GROUNDING CONDUCTOR, UNLESS OTHERWISE INDICATED, PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE CIRCUIT, EXCEPT FOR LIGHTING CIRCUITS, UNLESS AN OVERSIZED NEUTRAL IS SPECIFICALLY INDICATED.
4. MARK ALL CONDUITS AND JUNCTION BOXES WITH PERMANENT MARKER INDICATING PANEL AND CIRCUIT NUMBER OF CONDUCTORS CONTAINED WITHIN. LABEL WHERE CONDUITS ENTER PANELS, WIRE WAYS, PULL BOXES, ETC. LABEL EMPTY CONDUITS WITH SYSTEM (VOICE, DATA, SECURITY, ETC.) AND SOURCE OF CONDUIT.
5. ELECTRICAL WORK NOT SERVING STAIRWELLS SHALL NOT PASS THROUGH A STAIR ENCLOSURE UNLESS AN APPROVED RATED SOFFIT IS PROVIDED TO MAINTAIN FIRE AND SMOKE RATING.
6. PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE, O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.
7. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (FLOOR TO FLOOR) WALLS.

SYSTEM POWER WIRING NOTES

1. ALL VIDEO PROJECTOR, CAMERA AND MONITOR POWER OUTLETS AND THEIR ASSOCIATED COMPUTER POWER OUTLETS FEEDING THE VIDEO SOURCE ARE TO BE CONNECTED TO THE SAME PHASE TO ELIMINATE VIDEO INTERFERENCE BETWEEN VIDEO SOURCE AND EQUIPMENT. COORDINATE ALL POWER WIRING FOR SYSTEM EQUIPMENT WITH THE SYSTEM INSTALLER PRIOR TO INSTALLATION.

MOUNTING NOTES

1. INSTALL NEARBY DEVICES ON ONE COMMON VERTICAL CENTERLINE.
2. INSTALL ADJACENT TO DEVICES LINED UP WITH A COMMON BOTTOM LINE.
3. INSTALL BOTTOM OF DEVICES AT INDICATED HEIGHT AS APPLICABLE UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECTURAL, AND EQUIPMENT DRAWINGS.
4. ON MASONRY WALLS LINE UP THE BOTTOM OF THE DEVICE WITH A MASONRY JOINT AS CLOSE TO INDICATED HEIGHT AS PRACTICAL.
5. INSTALL DEVICES IN SAME AREA AT THE SAME HEIGHT.
6. MOUNT PANELS SIX FEET TO THE TOP OF THE PANEL OR ANNUNCIATOR/FA GRAPHIC.
7. MOUNT AT 8FT TO BOTTOM FOR SIGNAGE, EMERGENCY LIGHTING, CLOCKS, SECURITY SENSORS, WALL MOUNTED OCCUPANCY SENSORS MODIFIED AS FOLLOWS, 4" FROM TOP OF DEVICE TO CEILING, 4" ABOVE DOOR FRAMES.
8. LOCATE CONTROL DEVICES AT LEAST 18" FROM AN INSIDE CORNER.
9. SUPPORT ALL WORK FROM THE BUILDING STRUCTURE.
10. ELECTRICAL WORK SHALL BE INSTALLED CONCEALED IN FINISHED AREAS RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
11. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24 INCH SPACING IN FIRE RATED WALLS.
12. PROVIDE ELECTRICAL OUTLET PLATE GASKETS SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON–CONDITIONED SPACES.

NOTE:

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARY USED ON THIS PROJECT.

SMMA
SYMMES MAINI & MCKEE ASSOCIATES
1000 Massachusetts Avenue
Cambridge, Massachusetts 02138
617.547.5400 Fax 617.354.5758

OWNER REVIEW

NAME	DATE

NO.	DATE	DESCRIPTION
1	2/5/2010	PERMIT SET

ISSUE LOG
△ = CLOUDED CHANGE

TD BANK
TENANT RENOVATION
1 PORTLAND SQUARE
PORTLAND, ME 04112

LEGEND AND NOTES

SCALE	NTS
DRAWN BY	SFM
CHECKED BY	
PROJ. ARCH. / ENGR.	RG
PROJ. MGR.	SKD
JOB NO.	09063/ 09063.01

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