

GENERAL TELECOMMUNICATIONS NOTES:

(APPLY TO ALL DRAWINGS)






- A. IN GENERAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RACEWAYS, BACKBOXES, RJ45 PORTS, COVERPLATES AND CABLING. THE CONTRACTOR SHALL ALSO PROVIDE TESTING AND TERMINATIONS FOR ALL CABLING. SYSTEM EQUIPMENT SUCH AS CAMERAS, WIRELESS ACCESS POINTS, TELEPHONE HANDSETS, SERVERS AND RACK MOUNTED EQUIPMENT SHALL BE PROVIDED BY OTHERS.
- B. PROVIDE LABELING OF ALL EQUIPMENT, DEVICES AND CABLING IN SCOPE OF WORK IN ACCORDANCE WITH ANSI/TIA/EIA-606-A AND THE NEC. SUCH ITEMS INCLUDE, BUT ARE NOT LIMITED TO, CABLES AND END DEVICES/OUTLETS.
- C. ALL TELE/DATA CABLES SHALL BE INSTALLED IN CONDUIT WHERE CONCEALED BEHIND WALLS OR ABOVE NON-ACCESSIBLE CEILING SPACES. TELE/DATA CABLES SHALL BE SUSPENDED BY J-HOOKS WHERE INSTALLED ABOVE ACCESSIBLE CEILING SPACES OR WHERE THERE IS NO CEILING.
- D. ALL DATA CABLING SHALL BE CAT6.



BASIC ELECTRICAL REQUIREMENTS:







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















- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO PERFORM ALL OPERATIONS REQUIRED FOR THE COMPLETE INSTALLATION AND RELATED WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. ELECTRIC EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- B. PROVIDE ALL ELECTRICAL EQUIPMENT CONNECTIONS.
- C. PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES.
- D. PROVIDE ALL WORK IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LATEST EDITION OF THE:
1. BUILDING CODE OF NEW YORK STATE
2. ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
3. OSHA REQUIREMENTS
4. LOCAL MUNICIPAL ORDINANCES AND CODES
5. AUTHORITY HAVING JURISDICTION (AHJ)
6. SERVING UTILITY COMPANIES
- E. PROVIDE ELECTRICAL INSPECTION CERTIFICATE FROM INSPECTION AGENCY RECOGNIZED AS ACCEPTABLE FROM THE AHJ.
- F. PROVIDE ELECTRICAL AND COMMUNICATION SERVICES IN COMPLIANCE WITH THE UTILITY AND COMMUNICATION COMPANIES.
- G. PROVIDE TEMPORARY ELECTRICAL SERVICE IN SIZES TO ACCOMMODATE CONSTRUCTION WHERE REQUIRED.
- H. REPAIR OR REPLACE ALL DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN ONE YEAR OF CONSTRUCTION CLOSE OUT DATE AT NO ADDITIONAL COST TO THE OWNER.
- I. PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE SYSTEM TEST, PRIOR TO CLOSE OUT DATE SUBMIT ALL SATISFACTORY SYSTEM TEST RESULTS FOR RECORD.
- J. SUBMITTALS:
1. ALL ITEMS OF EQUIPMENT AND MATERIALS PROVIDED SHALL BE SUBMITTED FOR ENGINEERING REVIEW.
2. SUBMIT A MINIMUM OF THREE COPIES OF SHOP DRAWINGS/PRODUCT DATA INFORMATION.
- K. CONTRACTOR IS HERE BY CAUTIONED THAT ELECTRIC POWER CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERAGE, ETC.) OF EQUIPMENT IS BASED ON AVAILABLE INFORMATION AT THE TIME OF PROJECT DESIGN. CONTRACTOR MUST VERIFY CHARACTERISTICS FOR EACH PIECE OF NEW EQUIPMENT PRIOR TO ORDERING ELECTRICAL EQUIPMENT. INDICATE VERIFICATION ON SUBMITTALS.
- L. LOCATIONS INDICATED FOR LIGHTING FIXTURES ARE APPROXIMATE. LOCATE FIXTURES AS REQUIRED AND INTERFERENCE WITH BUILDING STEEL, PIPING, DUCTWORK, CONDUIT, DIFFUSERS, GRILLES, SPEAKERS, SMOKE DETECTORS, ETC. FIELD COORDINATE EXACT LOCATIONS AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. VERIFY COMPLIANCE WITH NEC ARTICLE 410.16 FOR INSTALLATION OF LIGHT FIXTURES IN CLOTHES CLOSETS. PRIOR TO ROUGH-IN, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
- M. EXACT LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, EXIT SIGNS, ETC. SHALL BE COORDINATED WITH OTHER CEILING MOUNTED EQUIPMENT TO AVOID CONFLICT. LOCATE DEVICES AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. FIRE ALARM SMOKE AND HEAT DETECTORS SHALL BE LOCATED 3'-0" MINIMUM FROM HVAC DIFFUSERS, REGISTERS, GRILLES, ETC. SMOKE DETECTORS AT SMOKE DOORS MUST BE INSTALLED WITHIN 5'-0" OF THE DOORS (REFER TO NFPA 72).
- N. ALL NEW CIRCUITING SHALL BE CONCEALED (EXCEPT IN UNFINISHED SPACES). PROVIDE ALL CUTTING AND PATCHING AS REQUIRED.
- O. ALL FIRE ALARM VISUAL STROBE UNITS SHALL BE MOUNTED AT 6'-8" A.F.F. MAXIMUM PER A.D.A. REQUIREMENTS.
- P. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT AND OTHER CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR CASEWORK LAYOUT, ELEVATIONS, ETC. COORDINATE WITH LOCATIONS OF ELECTRICAL DEVICES AND OUTLETS
- Q. EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS.
- R. PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED CONNECTIONS TO ALL DEVICES/EQUIPMENT. CONNECT TO CIRCUIT(S) AS INDICATED.
- S. CIRCUITING TO DEVICES/EQUIPMENT SHALL BE (2) *12 WITH (1) *12 GROUND FOR EACH 20 AMPERE CIRCUIT UNLESS OTHERWISE NOTED.
- T. COORDINATE ALL WORK WITH OTHER TRADES; REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATING LOCATIONS.
- U. RISER DIAGRAMS ARE DIAGRAMMATIC ONLY: WIRE AND DEVICE QUANTITIES, SIZES, TYPES SHALL BE AS CALLED FOR IN CONTRACT DOCUMENTS.
- V. SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE APPROPRIATE FIRE STOPPING FOR ALL PENETRATIONS.
- W. COORDINATE EXACT LOCATION OF ALL WIRING ROUTES, EQUIPMENT AND DEVICES WITH OTHER TRADES.
- X. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT. ADVISE OTHER TRADES OF SERVICE CLEARANCES AND ENSURE NO SERVICES OR TRADES RUN THROUGH SERVICE AREA.
- Y. ALL ELECTRICAL BOXES LOCATED IN A FIRE RATED WALL/CEILING SHALL HAVE A FIRE RATING TO MATCH THE RATING OF THE WALL/CEILING. UTILIZE FIRE RATED PUDDY PADS IN THESE LOCATIONS.
- Z. ALL RECEPTACLES INDICATED AS GFI TYPE MUST BE A GFI RECEPTACLE. CONNECTING NORMAL RECEPTACLES DOWNSTREAM OF ONE GFI RECEPTACLE IS NOT ACCEPTABLE.
- AA. ALL WIRING INDICATED ON PLANS IS TO BE COPPER WIRING UNLESS OTHERWISE NOTED. REFER TO ONE LINE DIAGRAM FOR FEEDERS THAT MAY BE ALUMINUM.
- AB. ALL SWITCHES, RECEPTACLES, TV AND OTHER WIRING DEVICES SHALL BE WHITE.
- AC. PROVIDE AFCI PROTECTION OF BRANCH CIRCUITS IN ALL APARTMENTS PER NEC 210.12 B.
- AD. PROVIDE ALL INTERIOR TELEPHONE WIRING WITHIN THE BUILDING TO DEMARC LOCATION IN THE ELECTRICAL ROOM. PROVIDE ALL CONNECTIONS AND INTERFACE DEVICE AS APPROVED BY TELCO.
- AE. PROVIDE ALL INTERIOR CABLE TV WIRING WITHIN THE BUILDING TO DEMARC LOCATION IN THE ELECTRICAL ROOM. PROVIDE ALL CONNECTIONS AND INTERFACE DEVICE AS APPROVED BY CATV PROVIDER.



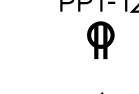
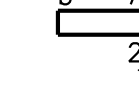
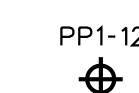
ABBREVIATIONS	
ABBREV.	DESCRIPTION
A	AMPERE
AC	MOUNTED ABOVE COUNTER HEIGHT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT INTERRUPTING
AHJ	AUTHORITY HAVING JURISDICTION
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
FACP	FIRE ALARM CONTROL PANEL
GFCI/GFI/G	GROUND FAULT CIRCUIT INTERRUPTER
HVAC	HEATING, VENTILATION & AIR CONDITIONING CONTRACTOR/TRADE
KVA	KILOVOLT AMPERES
KW	KILOWATT
LV	LOW VOLTAGE, MOMENTARY CONTACT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRIC CODE
NM	NON-METALLIC SHEATHED CABLE
NTS	NOT TO SCALE
PC	PHOTOCELL
SE	SERVICE ENTRANCE
TYP	TYPICAL
UC	MOUNTED UNDER COUNTER HEIGHT
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
V	VOLT
W	WIRE
WP	WEATHERPROOF


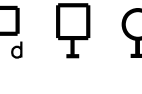


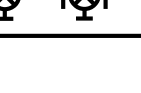
COMMUNICATIONS	
SYMBOL	DESCRIPTION
	COMBINATION POWER AND DATA OUTLETS; REFER TO TYPICAL COMBINATION POWER AND DATA OUTLET DETAIL. SUBSCRIPT INDICATES QUANTITY: *P - QUANTITY OF DUPLEX RECEPTACLES *D - QUANTITY OF DATA PORTS/CABLES.
	ONE (1) TELEPHONE OUTLET AND CABLE
	TELEVISION OUTLET. REFER TO TYPICAL TELEVISION DETAIL.
	TELEPHONE MAIN DISTRIBUTION FRAME
	CABLE TV MAIN DISTRIBUTION FRAME






SECURITY	
SYMBOL	DESCRIPTION
	DOOR CONTACT(S)
	DOOR CONTACT MONITORING PANEL













POWER DISTRIBUTION AND CONTROL	
SYMBOL	DESCRIPTION
	208/120 VOLT PANELBOARD
	FUSED DISCONNECT SWITCH AMP RATING AS INDICATED
	SINGLE POINT CONNECTION TO EQUIPMENT
	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.
	AUTOMATIC TRANSFER SWITCH
	TRANSFORMER


FIRE ALARM	
SYMBOL	DESCRIPTION
	SYSTEM SMOKE DETECTOR
	SINGLE STATION SMOKE ALARM WITH SOUNDER BASE; SUBSCRIPT "CO" INDICATES COMBINATION CARBON MONOXIDE DETECTOR
	FIRE ALARM NOTIFICATION APPLIANCE, AUDIBLE AND VISUAL; * INDICATES STROBE CANDELA RATING
	FIRE ALARM NOTIFICATION APPLIANCE, VISUAL ONLY; * INDICATES STROBE CANDELA RATING
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUCIATOR PANEL
	CARBON MONOXIDE DETECTOR
	FIRE ALARM MINI HORN
	SPRINKLER WATERFLOW SWITCH (PADDLE OR PRESSURE SWITCH TYPE)
	TAMPER SWITCH
	COMBINATION SET TEMPERATURE AND RATE OF RISE HEAT DETECTOR
	MANUAL PULLSTATION
	CONTROL MODULE
	INTERFACE MODULE
	DOOR HOLD
	ELEVATOR CAPTURE

BRANCH CIRCUITING IDENTIFICATION	
	ITEM DESIGNATION, SEE ELECTRICAL EQUIPMENT & CONTROL SCHEDULE FOR ALL REQUIREMENTS.
	CIRCUIT DESIGNATION
	PANEL AND CIRCUIT DESIGNATION
	SWITCHING DESIGNATION LIGHTING FIXTURE TYPE, SEE LUMINAIRE SCHEDULE FOR REQUIREMENTS.
	PANEL AND CIRCUIT DESIGNATION

LUMINAIRES	
SYMBOL	DESCRIPTION
	LUMINAIRE, UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE. LOWER CASE LETTER INDICATES SWITCHING DESIGNATION.
	WALL MOUNTED LUMINAIRE, UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE. LOWER CASE LETTER INDICATES SWITCHING DESIGNATION.
	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK
	CEILING MOUNTED EXIT LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE

ONE LINE DIAGRAM SYMBOLS	
SYMBOL	DESCRIPTION
	THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER
	UTILITY METER
	TRANSFORMER
	FEEDER DESIGNATION - REFER TO FEEDER SCHEDULE
	PANELBOARD

ELECTRICAL SYMBOLS LIST BASIC MATERIALS AND METHODS	
SYMBOL	DESCRIPTION
	SPECIAL PURPOSE RECEPTACLE. PROVIDE PROPER VOLTAGE, CLASS, CURRENT RATING AND NEMA CONFIGURATION AS REQUIRED BY BRANCH CIRCUIT AND/OR MATCH CAP ON EQUIPMENT BEING FURNISHED BY OTHERS. PROVIDE CORD AND CAP. SUBSCRIPT INDICATES TYPE: • - NEMA TYPE D - DRYER RECEPTACLE, 30A, 125/250V
	TOGGLE SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE: 3 - THREE WAY SWITCH 4 - FOUR WAY SWITCH a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES V - VACANCY SENSOR OP - OCCUPANCY SENSOR, PASSIVE INFRARED M - MOTOR RATED TOGGLE SWITCH LV - LOW VOLTAGE, MOMENTARY CONTACT
	DIMMER SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE: 3 - THREE WAY DIMMER SWITCH a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES V - VACANCY SENSOR LV - LOW-VOLTAGE, MOMENTARY CONTACT
	DUPLEX RECEPTACLE, SUBSCRIPTS INDICATE TYPE: GFI - GROUND FAULT CIRCUIT INTERRUPTING AC - ABOVE COUNTER UC - UNDER THE COUNTER
	DUPLEX RECEPTACLE WITH ARC FAULT CIRCUIT INTERRUPTING WITH PROTECTION, SUBSCRIPTS INDICATE TYPE: GFI - GROUND FAULT CIRCUIT INTERRUPTING AC - ABOVE COUNTER UC - UNDER THE COUNTER
	UNDERGROUND ELECTRIC HANDHOLE
	JUNCTION BOX, NORMAL POWER
	TIME CLOCK
	REFERENCE TO DRAWING NOTE
	UNDERGROUND DATA
	UNDERGROUND ELECTRICAL
	UNDERGROUND FIRE ALARM




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