MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT / AIR ADMITTANCE VALVE
AD	ACCESS DOOR
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
ASR	AUTOMATIC SPRINKLER RISER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	COOLING
CO	CLEAN OUT
CONT	CONTINUATION OR CONTINUED
CONV	CONVECTOR
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DEG	DEGREES
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EA/EXH	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWC	ELECTRIC WATER COOLER
°F	DEGREES FAHRENHEIT
FA	FACE AREA (COIL) / FREE AREA (LOUVER)
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FFD	FUNNEL FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FS	FLOOR SINK
FT	FEET
FURN	FURNISHED
FV	FACE VELOCITY
FVC	FIRE VALVE CABINET
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HO	HUB OUTLET
HP	HORSEPOWER

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
HR	HOUR
HTG	HEATING
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INST	INSTALLED
INV	INVERT
ISP	INTERNAL STATIC PRESSURE
IW	INDIRECT WASTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)
MOP	MAXIMUM OVER-CURRENT PROTECTION
N.C.	NOISE CRITERIA
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOM	NOMINAL
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER / CENTER TO CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
ORS	OVERFLOW ROOF SUMP
OS&Y	OUTSIDE SCREW AND YOKE
PD	PRESSURE DROP (FEET OF WATER)
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE
PSIG	POUNDS PER SQUARE INCH – GAUGE
PT	PRESSURE / TEMPERATURE PORT
RA	RETURN AIR
RH	RELATIVE HUMIDITY
REQD	REQUIRED
REL.A	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	ROOF SUMP
SA	SUPPLY AIR
SH	SHOWER
SP	STATIC PRESSURE
SqFt / SF	SQUARE FOOT/SQUARE FEET
SS	SERVICE SINK
TC	TEMPERATURE CONTROL
T & P	TEMPERATURE AND PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
UR	URINAL
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VTR	VENT THRU ROOF
W	WASTE
W&V	WASTE AND VENT
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WG	WATER GAUGE
WH	WALL HYDRANT

MECHANICAL PIPING SYMBOLS

ABBREV.	DESCRIPTION
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	DIRECTION OF FLOW
	UNION
	STRAINER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	PIPE ANCHOR
	PIPE GUIDE
	PIPE CAP OR PLUG
	ISOLATION VALVE
	CIRCULATING PUMP
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	BACKWATER VALVE
	ANGLE VALVE
	CHECK VALVE (SWING)
	CHECK VALVE (SPRING)
	PLUG VALVE
	NEEDLE VALVE
	OUTSIDE SCREW AND YOKE VALVE (OS&Y)
	PRESSURE REGULATING VALVE
	SOLENOID VALVE
	CONTROL VALVE (2-WAY / 3-WAY)
	CENTRIFUGAL FAN
	AUTOMATIC GAS SHUT-OFF VALVE
	TRAP (PLAN VIEW)
	FLOOR DRAIN / FUNNEL FLOOR DRAIN (PLAN VIEW)
	FLOOR DRAIN / FUNNEL FLOOR DRAIN (ELEVATION)
	ROOF SUMP
CO	CLEAN OUT (IN FLOOR)
CO	CLEAN OUT (IN LINE)
WCO	CLEAN OUT (WALL)
BFP	BACKFLOW PREVENTER
M	WATER METER ASSEMBLY
	HOSE BIBB, WALL HYDRANT
	DIRECTION OF PIPE PITCH
	SPRINKLER HEAD (UPRIGHT)
	SPRINKLER HEAD (SIDEWALL)
FS	FLOW SWITCH
	SIAMESE CONNECTION (YARD)
	SIAMESE CONNECTION (WALL MOUNTED)
	FIRE HYDRANT
	FLOW MEASURING DEVICE
	BALANCING VALVE
	COMBINATION FLOW MEASURING AND BALANCING DEVICE
AAV	AUTOMATIC AIR VALVE
MAV	MANUAL AIR VALVE

MECHANICAL SYMBOLS

ABBREV.	DESCRIPTION
	RECTANGULAR TAKE-OFF (SINGLE LINE)
	RECTANGULAR TAKE-OFF (DOUBLE LINE)
	ROUND TAKE-OFF (SINGLE LINE)
	ROUND TAKE-OFF (DOUBLE LINE)
	SPIN-IN FITTING (WITH VOLUME DAMPER)
	ELBOW (WITH TURNING VANES)
	RADIUS RECTANGULAR ELBOW
	RADIUS ROUND ELBOW
	RECTANGULAR ELBOW UP
	ROUND ELBOW UP
	RECTANGULAR ELBOW DOWN
	ROUND ELBOW DOWN
	CONCENTRIC TRANSITION (DOUBLE LINE)
	CONCENTRIC TRANSITION (SINGLE LINE)
	ECCENTRIC TRANSITION (DOUBLE LINE)
	ECCENTRIC TRANSITION (SINGLE LINE)
R	INCLINED RISE IN DIRECTION OF AIR FLOW (DOUBLE LINE)
R	INCLINED RISE IN DIRECTION OF AIR FLOW (SINGLE LINE)
D	INCLINED DROP IN DIRECTION OF AIR FLOW (DOUBLE LINE)
D	INCLINED DROP IN DIRECTION OF AIR FLOW (SINGLE LINE)
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER
	SUPPLY DIFFUSER
	LINEAR SLOT DIFFUSER
	RETURN OR EXHAUST GRILLE
	TRANSFER GRILLE
	CROSS SECTION OF SUPPLY AIR DUCT
	CROSS SECTION OF EXHAUST OR RETURN AIR DUCT
	EXISTING / NEW — FIRE DAMPER (HORIZONTAL)
	EXISTING / NEW — FIRE DAMPER (VERTICAL)
	EXISTING / NEW — SMOKE DAMPER
	EXISTING / NEW — COMBINATION FIRE/SMOKE DAMPER (VERTICAL)
	EXISTING / NEW — COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)
	VOLUME DAMPER (MANUALLY ADJUSTABLE)
M	MOTORIZED DAMPER
SD	SMOKE DETECTOR
CO2	CO2 SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR
H	HUMIDISTAT OR HUMIDITY SENSOR
	RETURN OR EXHAUST / SUPPLY AIR FLOW

PIPING LEGEND

ABBREV.	DESCRIPTION
CA	COMPRESSED AIR PIPING
CD	CONDENSATE DRAIN PIPING
DT	DRAIN TILE
F	FIRE PROTECTION PIPING
FOR	FUEL OIL RETURN PIPING
FOS	FUEL OIL SUPPLY PIPING
G	NATURAL GAS PIPING
BCW	BOOSTED-DOMESTIC COLD WATER PIPING
BHW	BOOSTED-DOMESTIC HOT WATER PIPING
CW	DOMESTIC COLD WATER PIPING
NPCW	NON POTABLE COLD WATER PIPING
TW	TEMPERED WATER PIPING
HW	DOMESTIC HOT WATER PIPING
HW(140°F)	DOMESTIC 140°F HOT WATER PIPING
HWR	DOMESTIC HOT WATER RETURN PIPING
SAN	SANITARY WASTE PIPING
PSAN	PUMPED SANITARY PIPING
V	VENT PIPING
ST	STORM SEWER PIPING
PST	PUMPED STORM PIPING
RC	RAIN CONDUCTOR PIPING
ORC	OVERFLOW RAIN CONDUCTOR PIPING
RL	REFRIGERANT LIQUID PIPING
RS	REFRIGERANT SUCTION PIPING
HGB	HOT GAS BY-PASS PIPING

APPLICABLE CODES AND REGULATIONS

YEAR	CODE
2020	BUILDING CODE OF NEW YORK STATE
2020	ENERGY CONSERVATION CODE OF NYS
2020	PLUMBING CODE OF NYS
2020	MECHANICAL CODE OF NYS
2020	FIRE CODE OF NYS
2020	FUEL GAS CODE OF NYS
2017	NFPA 96
2016	NFPA 13, NFPA 14, NFPA 20
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN (DOJ)

WATER FLOW TEST DATA

DATE PERFORMED	REPORTED PRESSURES	
	STATIC	RESIDUAL
08-14-2019	36 PSI @ 840 GPM	33.7 PSI @500 GPM

DRAWING INDEX

SHT NO	DESCRIPTION
M000	MECHANICAL GENERAL INFORMATION
F100	FIRE PROTECTION PLANS AND DETAILS
M100	UNDERGROUND PLUMBING PLAN
M110	FIRST FLOOR PLUMBING PLAN
M120	SECOND FLOOR PLUMBING PLAN
M130	THIRD FLOOR PLUMBING PLAN
M140	FOURTH FLOOR PLUMBING PLAN
M150	FIFTH FLOOR PLUMBING PLAN
M210	FIRST FLOOR HVAC PLAN
M220	SECOND FLOOR HVAC PLAN
M230	THIRD FLOOR HVAC PLAN
M240	FOURTH FLOOR HVAC PLAN
M250	FIFTH FLOOR HVAC PLAN
M260	ROOF MECHANICAL PLAN
M500	MECHANICAL DETAILS
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M503	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES
M700	MECHANICAL DIAGRAMS
M701	MECHANICAL DIAGRAMS
M702	MECHANICAL DIAGRAMS
M703	MECHANICAL DIAGRAMS
M800	TEMPERATURE CONTROLS
M801	TEMPERATURE CONTROLS

DRAWING NOTATION

SYMBOL	DESCRIPTION
1	NEW WORK KEY NOTE NO. 1
1	DEMOLITION KEY NOTE NO. 1
EF-1	EQUIPMENT TAG
S-1 10x10 100-2	AIR TERMINAL TAG: S = SUPPLY, R = RETURN, E = EXHAUST, T = TRANSFER IE: DIFFUSER TYPE = S-1 NECK SIZE = 10x10 CFM = 100 (TYPICAL FOR 2)
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIPMENT
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	POINT OF NEW CONNECTION

SECTION NO. 4
4 / M5.2
SHEET M5.2 ON WHICH SECTION DRAWN

SECTION NO. 6
6 / M5.2
SECTION
SCALE: 1/4" = 1' - 0"
SHEET M5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR)

SYSTEM RISER DESIGNATION
X-#
RISER NUMBER

S: SANITARY
D: DOMESTIC WATER
H: HVAC PIPING
SP: STAIRWELL PRESSURIZATION
V: VENT
E: EXHAUST

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Holiday Inn Express & Suites

Project :
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THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
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ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOMASZEK · 088076 · LICENSED PROFESSIONAL ENGINEER
04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES

Checked by :

Sheet Title : MECHANICAL GENERAL INFORMATION

Project No. : 2018.009

Sheet No. : M000

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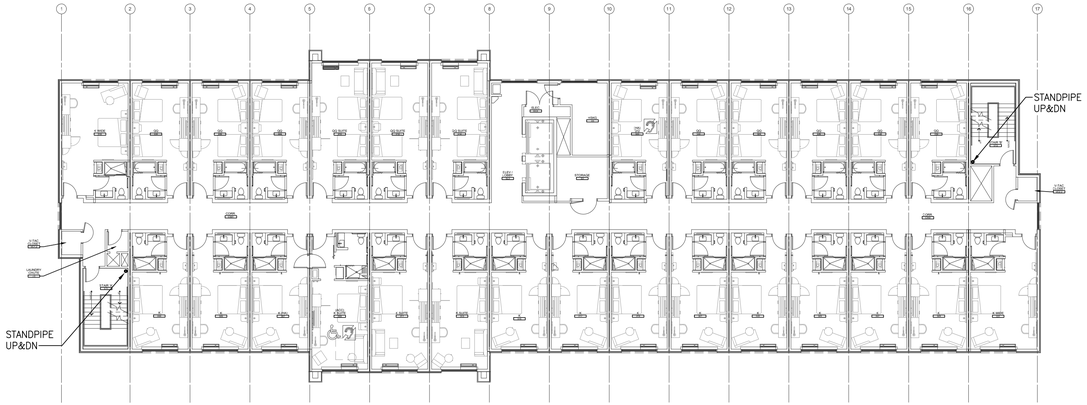
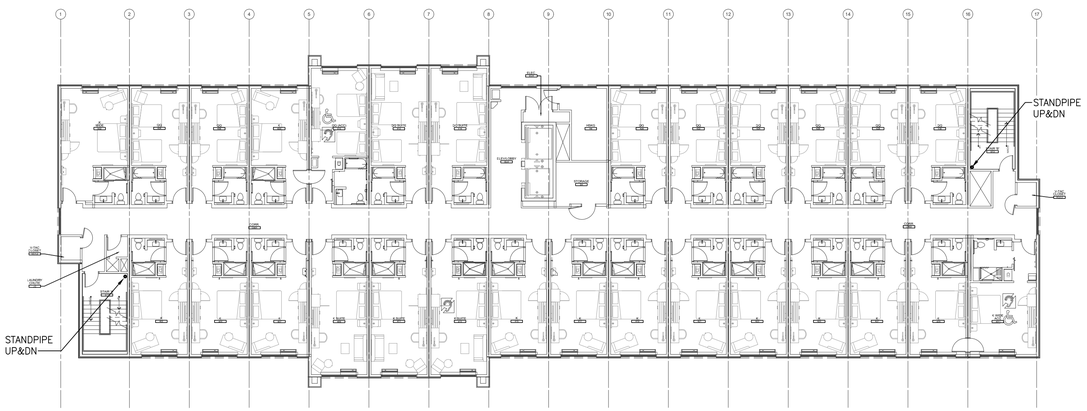
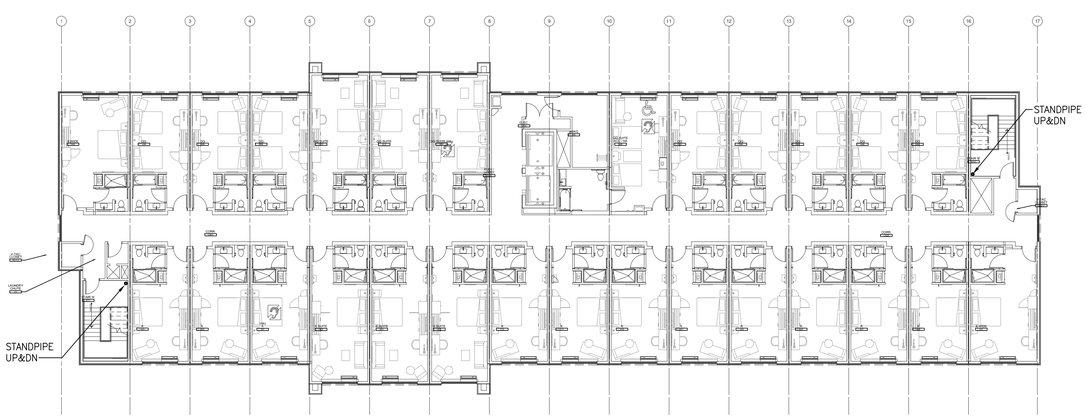


THIRD FLOOR FIRE PROTECTION PLAN
SCALE:1/16" = 1'-0"



FOURTH FLOOR FIRE PROTECTION PLAN
SCALE:1/16" = 1'-0"



FIFTH FLOOR FIRE PROTECTION PLAN
SCALE:1/16" = 1'-0"

FIRE PROTECTION HYDRAULIC DESIGN CRITERIA

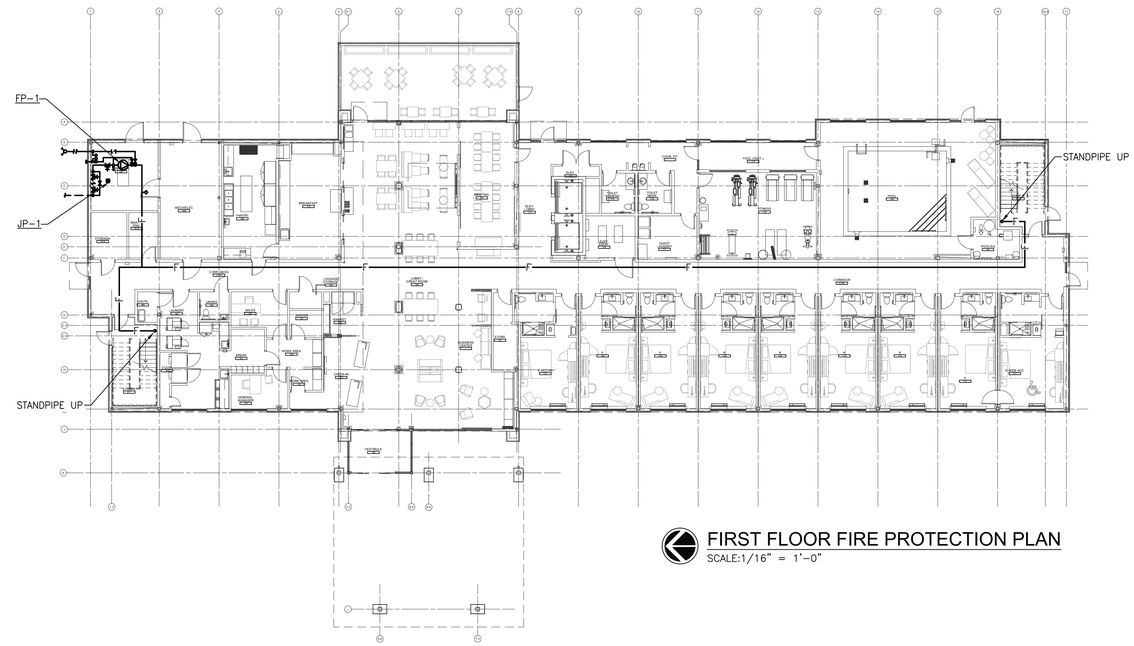
OCCUPANCY	HAZARD CLASSIFICATION	REMOTE AREA (SQUARE FEET)	DENSITY (GPM PER SQ. FT.)	REMARKS
PUBLIC SPACES, LOBBIES, CORRIDORS, OFFICES, LOUNGES, MEETING ROOMS, GUEST ROOMS, RESTAURANTS, ETC..., CEILING SPACES WITH COMBUSTIBLE MATERIALS.	LIGHT HAZARD	1500 (OR 5 HEADS MINIMUM)	0.10	USE QUICK RESPONSE SPRINKLERS
MECHANICAL ROOMS, ELECTRICAL ROOMS, EQUIPMENT ROOMS, KITCHENS, FOOD SERVICE AREAS, LAUNDRY, ELEVATOR PITS, MAINTENANCE ROOMS, STORAGE ROOMS	ORDINARY HAZARD GROUP 1	1500 (OR 5 HEADS MINIMUM)	0.15	USE QUICK RESPONSE SPRINKLERS
RESIDENTIAL SPACES, CORRIDORS	PER NFPA 13			PER NFPA 13R AS ALLOWED BY LOCAL CODE AND OWNER INSURER

NOTES:

1. DESIGN AND DESIGN CRITERIA SHALL BE PER NFPA.
2. MAXIMUM AREA PER HEAD CAN BE 400 SF, WHERE EXTENDED COVERAGE HEADS ARE ALLOWED AND UTILIZED.

FIRE PROTECTION GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE/REWORK FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, NFPA, OWNERS INSURER'S REQUIREMENTS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
2. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW MECHANICAL EQUIPMENT.
3. MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
4. FIRE PROTECTION TRADES SHALL SUBMIT PLANS, FLOW AND PRESSURE TEST AND CALCULATIONS TO THE LOCAL FIRE MARSHAL AND TO THE BUILDING'S INSURING AGENCY FOR APPROVAL. CONTRACTOR SHALL THEN MAKE ALL NECESSARY CORRECTIONS AND RESUBMIT PLANS AND CALCULATIONS FOR RECORD TO THE ARCHITECT AS WELL AS THE FIRE MARSHAL.
5. CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTS AND PAY FOR ALL FEES, PERMITS, INSPECTIONS, AND LICENSES, AS REQUIRED BY THE LOCAL AUTHORITY.



FIRST FLOOR FIRE PROTECTION PLAN
SCALE:1/16" = 1'-0"

SECOND FLOOR FIRE PROTECTION PLAN
SCALE:1/16" = 1'-0"

0 1/2" 1" 2"
ACCURATE WHEN PRINTED TO SCALE

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STATE OF NEW YORK · PATRICKEN TOWNSEND · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
FIRE PROTECTION PLANS AND DETAILS

Project No. :
2018.009

Sheet No. :
F100

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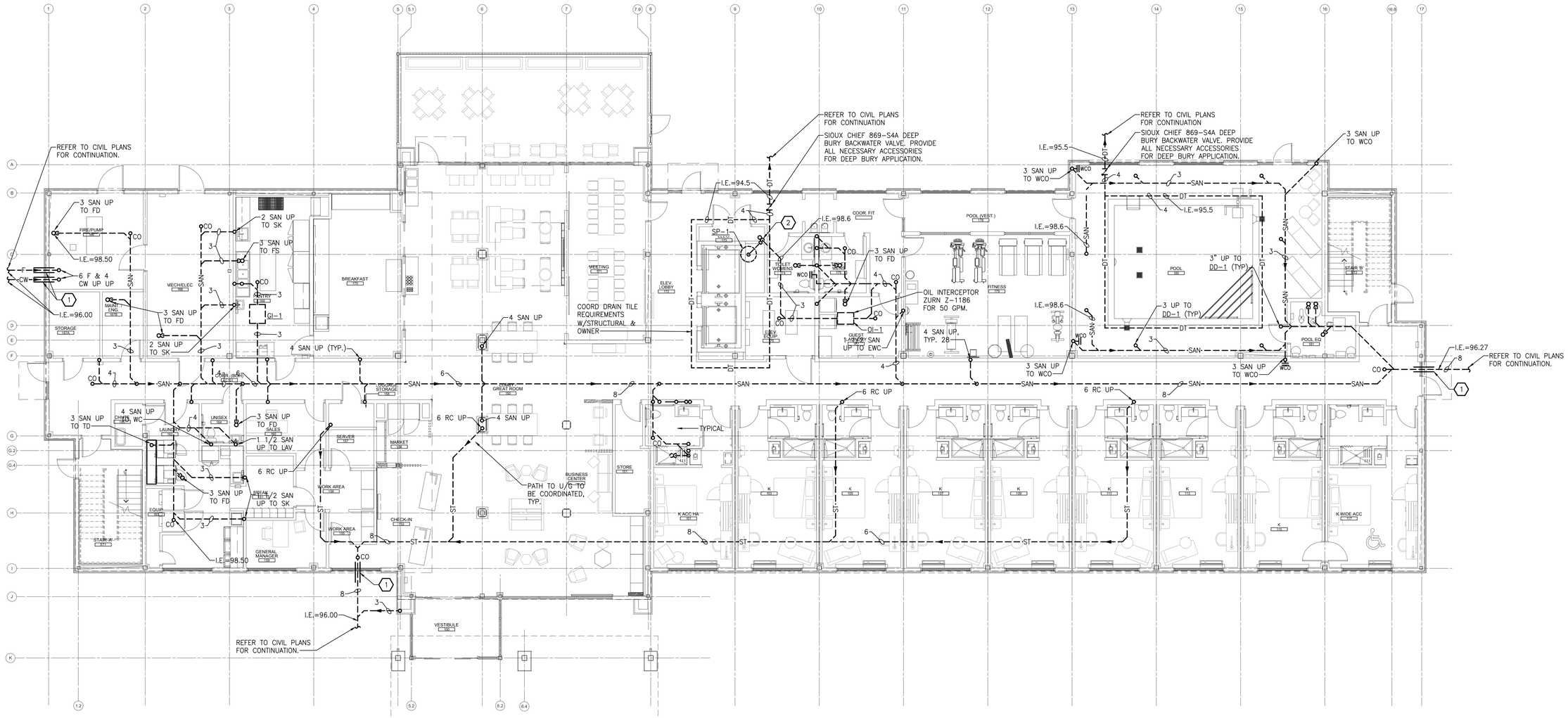

UNDERGROUND PLUMBING PLAN

SCALE:1/8" = 1'-0"

KEYED NOTES

1. PROVIDE SCHEDULE 40 STEEL SLEEVE WHERE PIPING PENETRATES FOOTING/FOUNDATION.
2. DISCHARGE ELEVATOR SUMP PUMP OVER FLOOR SINK LOCATED IN CLOSET. CONFIRM ALL ROUTING WITH ELECTRICAL TRADES PRIOR TO INSTALLATION.

FINISHED FLOOR = 100.000

PLUMBING GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL PLUMBING FIXTURES, BOTH STANDARD AND BARRIER FREE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPES, BRANCH CONNECTION SIZES AND ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE AND LOCAL COUNTY DEPARTMENT OF HEALTH CROSS CONTAMINATION CODE REQUIREMENTS.
4. VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING ANY WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY INTERFERENCES OR DISCREPANCIES.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WORK WITH THE WORK OF ALL OTHER TRADES, EXISTING SITE CONDITIONS, AND EQUIPMENT MANUFACTURER RECOMMENDATIONS. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY NEW WORK.
6. PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE AND SHALL MAINTAIN REQUIRED CLEARANCES OVER, AROUND AND IN FRONT OF ALL ELECTRICAL EQUIPMENT, PANELS, TRANSFORMERS, ETC. PIPING SHALL NOT INTERFERE WITH, OR BE INSTALLED IN A LOCATION THAT RESTRICTS ACCESS OR CLEARANCE TO ELECTRICAL OR MECHANICAL DEVICES. PROVIDE REQUIRED ACCESS AND CLEARANCE AROUND ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
7. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
8. PROVIDE BRANCH LINE ISOLATION VALVES ON DOMESTIC PIPING TO EACH GROUP OF FIXTURES AND TOILET ROOMS.
9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR VALVES/CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS.
11. RUN ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
12. PROVIDE "INLINE" TRAP SEAL PROTECTION OR TRAP PRIMER ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
13. AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT-OFF VALVE, TEE AND 6" LONG DIRT LEG WITH CAP. WEATHERPROOF PAINT ALL EXTERIOR GAS PIPING.
14. THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.

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STATE OF NEW YORK · PATRICKEN TOWNSEND · 098078 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
UNDERGROUND PLUMBING PLAN

Project No. :
2018.009

Sheet No. :
M100

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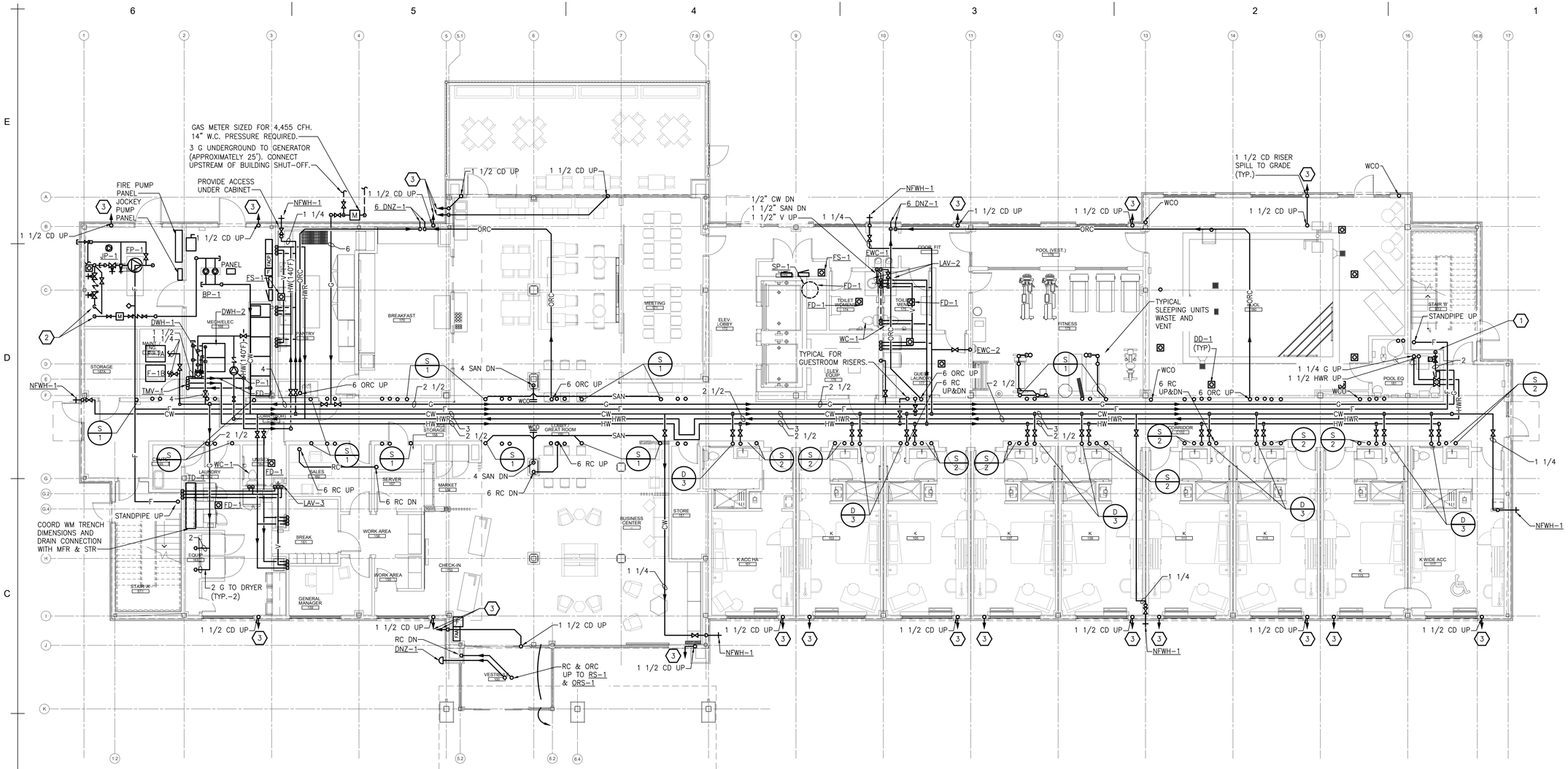

FIRST FLOOR PLUMBING PLAN

SCALE:1/8" = 1'-0"

ALL WORK COMPLETED WITHIN HATCHED AREA SHALL BE CONSTRUCTED AS PART OF THE MODULE. ALL WORK NOT LOCATED WITHIN THE HATCHING SHALL BE COMPLETED BY THE SITE CONTRACTOR.

SITE MECHANICAL CONTRACTOR TO PROVIDE PIPING AND FITTINGS TO CONNECT THE PLANT-INSTALLED DOMESTIC H&CW, WASTE, AND VENT BETWEEN FLOORS.

KEYED NOTES

1. INTERLOCK ASCO GAS SOLENOID VALVE WITH EMERGENCY STOP (CSD-1) AT DOOR. EMERGENCY STOP PROVIDED BY ELECTRICAL TRADES. 2" GAS TO POOL WATER HEATER: 400 CFH @ 11" W.C.
2. 6" FIRE WATER AND 4" DOMESTIC WATER INTO BUILDING.
3. TERMINATE CONDENSATE 18" ABOVE FINISHED GRADE. TERMINATE WITH DOWNTURN 45° ANGLE. PIPING MATERIAL SHALL BE COPPER.

PLUMBING GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL PLUMBING FIXTURES, BOTH STANDARD AND BARRIER FREE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPES, BRANCH CONNECTION SIZES AND ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE AND LOCAL COUNTY DEPARTMENT OF HEALTH CROSS CONTAMINATION CODE REQUIREMENTS.
4. VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING ANY WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY INTERFERENCES OR DISCREPANCIES.
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7. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
8. PROVIDE BRANCH LINE ISOLATION VALVES ON DOMESTIC PIPING TO EACH GROUP OF FIXTURES AND TOILET ROOMS.
9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR VALVES/CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS.
11. RUN ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
12. PROVIDE "INLINE" TRAP SEAL PROTECTION OR TRAP PRIMER ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
13. AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT-OFF VALVE, TEE AND 6" LONG DIRT LEG WITH CAP. WEATHERPROOF PAINT ALL EXTERIOR GAS PIPING.
14. THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.

ACCURATE WHEN PRINTED TO SCALE

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ROYAL OAK, MI 48067-0925
P. 248.546.6700
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SES Project # 20 0262 02

Holiday Inn Express & Suites

Project :
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THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
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ROCKLAND COUNTY, NY
10954

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STATE OF NEW YORK · PATRICK TOWNSEND · 088076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

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INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
FIRST FLOOR
PLUMBING PLAN

Project No. :
2018.009

Sheet No. :
M110

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SECOND FLOOR PLUMBING PLAN

SCALE:1/8" = 1'-0"

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0 1/2" 1" 2"
ACCURATE WHEN PRINTED TO SCALE

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Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · KENNETH W. STRICKEN TOWNSEND · 098078 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
SECOND FLOOR
PLUMBING PLAN

Project No. :
2018.009

Sheet No. :
M120

THIRD FLOOR PLUMBING PLAN

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0 1/2" 1" 2"
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Checked by :

Sheet Title :
THIRD FLOOR
PLUMBING PLAN

Project No. :
2018.009

Sheet No. :
M130

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FOURTH FLOOR PLUMBING PLAN

SCALE:1/8" = 1'-0"

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Sheet Title :
FOURTH FLOOR
PLUMBING PLAN

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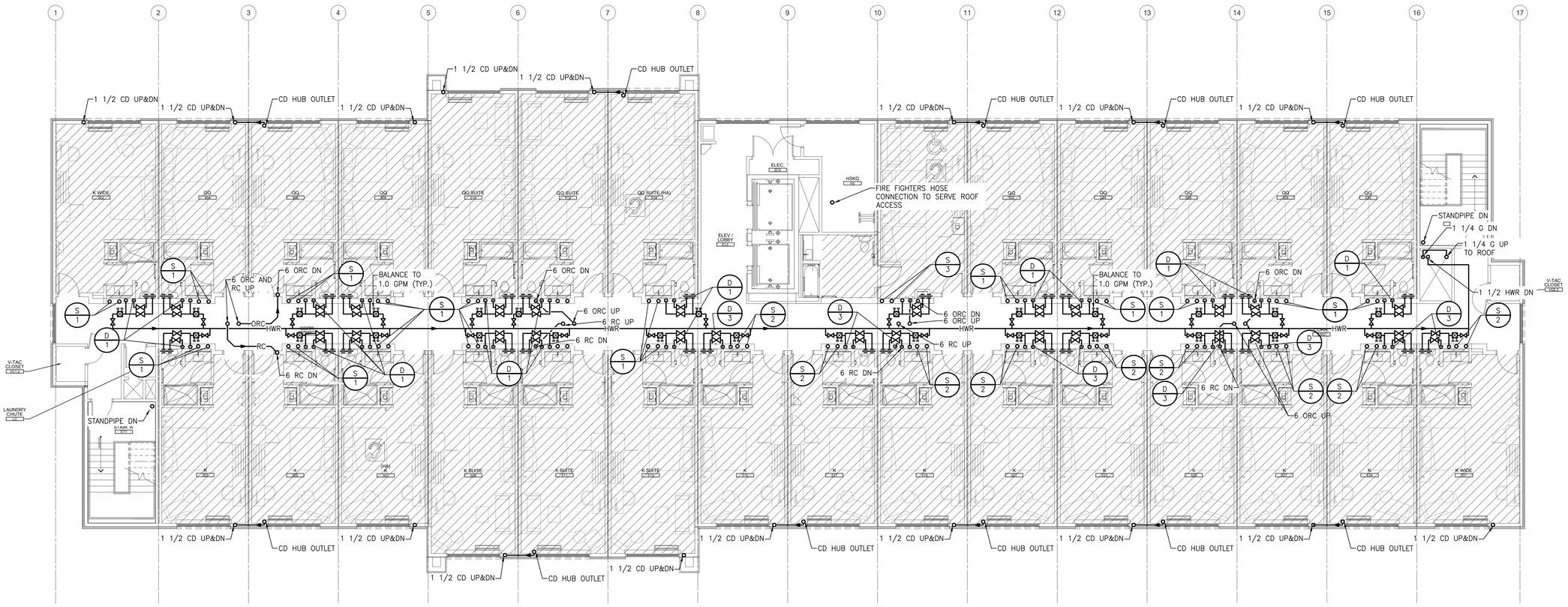

FIFTH FLOOR PLUMBING PLAN

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8. PROVIDE BRANCH LINE ISOLATION VALVES ON DOMESTIC PIPING TO EACH GROUP OF FIXTURES AND TOILET ROOMS.
9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR VALVES/CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS.
11. RUN ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
12. PROVIDE "INLINE" TRAP SEAL PROTECTION OR TRAP PRIMER ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
13. AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT-OFF VALVE, TEE AND 6" LONG DIRT LEG WITH CAP. WEATHERPROOF PAINT ALL EXTERIOR GAS PIPING.
14. THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.

0 1/2" 1" 2"
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ROCKLAND COUNTY, NY
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Issued for :

BIDS/PERMITS	04.30.21

STATE OF NEW YORK · PATRICKEN TOMASELLI · 088076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
FIFTH FLOOR
PLUMBING PLAN

Project No. :
2018.009

Sheet No. :
M150

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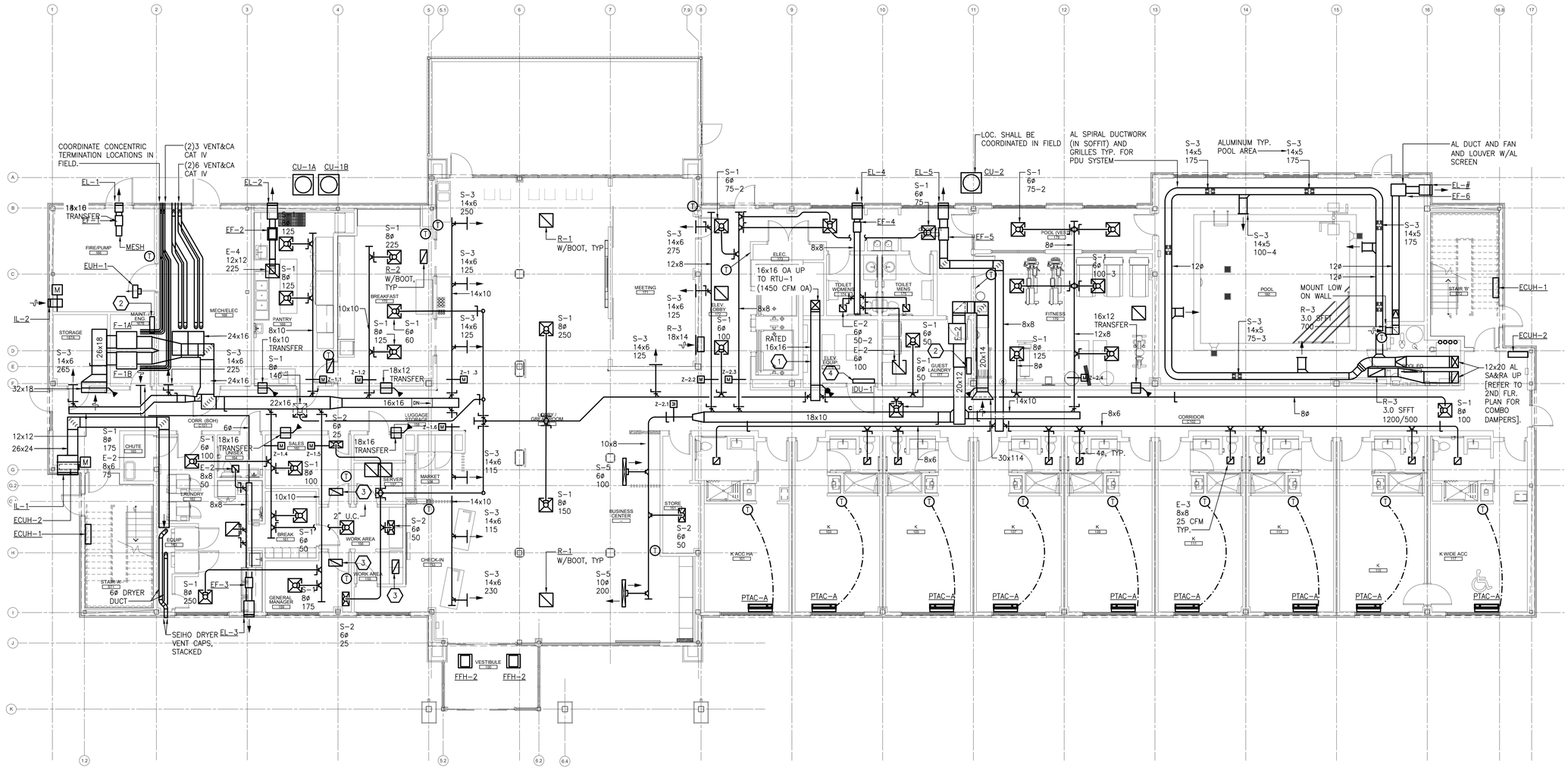

FIRST FLOOR HVAC PLAN

SCALE:1/8" = 1'-0"

ALL WORK COMPLETED WITHIN HATCHED AREA SHALL BE CONSTRUCTED AS PART OF THE MODULE. ALL WORK NOT LOCATED WITHIN THE HATCHING SHALL BE COMPLETED BY THE SITE CONTRACTOR.

KEYED NOTES

1. FIRE RATED DUCT (MADE BY CONQUEST OR SIMILAR) FROM WITHIN SHAFT TO CORRIDOR COMBO DAMPER.
2. FIELD LOCATE ZONE DAMPER CONTROLLER IN PAINTED LOCKABLE WALL BOX.
3. PROVIDE ABOVE NON-RATED WALL OPENINGS WHERE REQUIRED TO ENSURE TRANSFER OPENING IS MINIMUM 1.5 TIMES SUPPLY DUCT AREA. TYPICAL.
4. EXTEND INTERCONNECTING REFRIGERANT PIPING TO OUTDOOR UNIT ON ROOF.

HVAC GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE HVAC SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS, SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR STRUCTURAL CONDITIONS OR OTHER CONDITIONS.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. ALL DUCTWORK IS TO BE ROUTED AS HIGH A POSSIBLE. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
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4. DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
5. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
6. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH ARCHITECTURAL TRADES. SEAL ALL PIPING AND DUCT PENETRATIONS.
7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
8. COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
9. BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
10. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
11. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT, REFER TO PIPING DIAGRAMS AND DETAILS.
12. PAINT ALL VISIBLE INTERIOR SURFACES OF EXHAUST/RETURN GRILLES, REGISTERS AND VISIBLE ASSOCIATED DUCTWORK FLAT BLACK.
13. THE PARTIAL FIRST FLOOR CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.
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STATE OF NEW YORK · PATRICK TOWNSEND · 088078 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
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Checked by :

Sheet Title :
FIRST FLOOR HVAC PLAN

Project No. :
2018.009

Sheet No. :
M210

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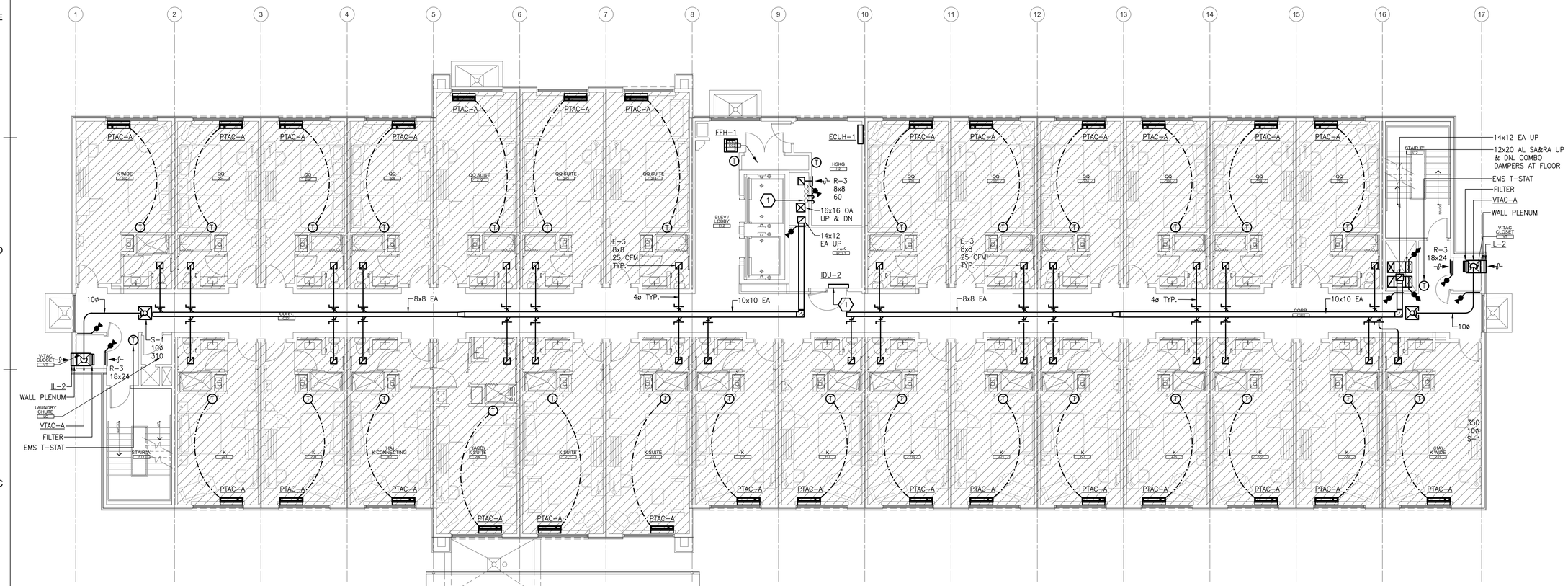

SECOND FLOOR HVAC PLAN

SCALE:1/8" = 1'-0"

KEYED NOTES

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04/30/2021

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
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Sheet Title :
SECOND FLOOR HVAC PLAN

Project No. :
2018.009

Sheet No. :
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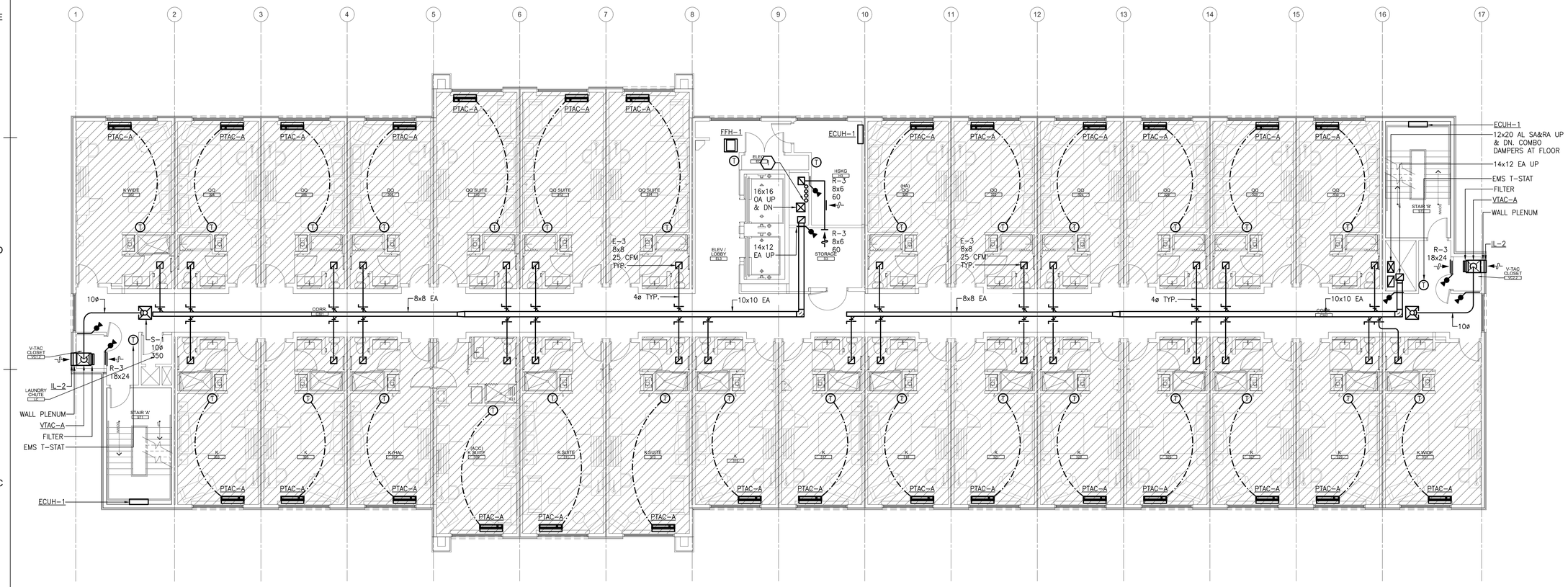

THIRD FLOOR HVAC PLAN

SCALE:1/8" = 1'-0"

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STATE OF NEW YORK · PATRICKEN TONNER · 088076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
THIRD FLOOR HVAC PLAN

Project No. :
2018.009

Sheet No. :
M230

FOURTH FLOOR HVAC PLAN

SCALE:1/8" = 1'-0"

KEYED NOTES

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FOURTH FLOOR HVAC PLAN

Project No. :
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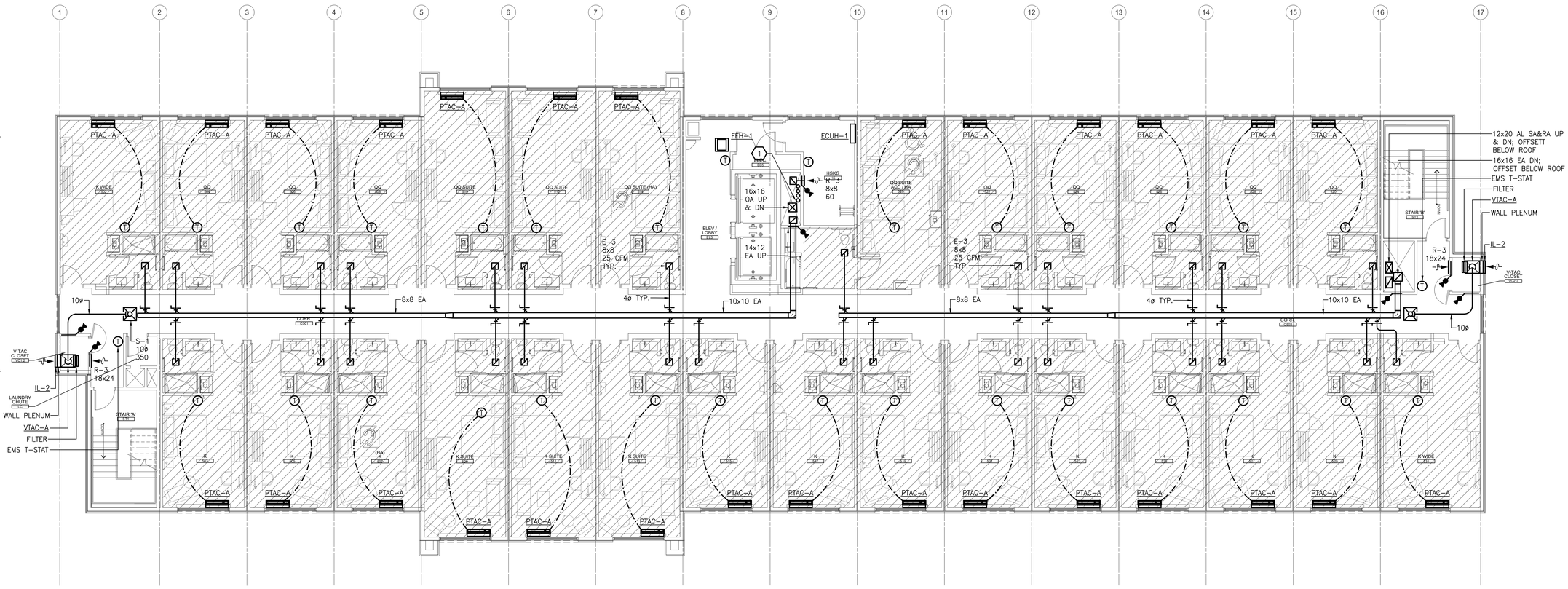
Sheet No. :
M240



FIFTH FLOOR HVAC PLAN

SCALE:1/8" = 1'-0"

KEYED NOTES

1. EXTEND INTERCONNECTING REFRIGERANT PIPING TO OUTDOOR UNIT ON ROOF.

ALL WORK COMPLETED WITHIN HATCHED AREA SHALL BE CONSTRUCTED AS PART OF THE MODULE. ALL WORK NOT LOCATED WITHIN THE HATCHING SHALL BE COMPLETED BY THE SITE CONTRACTOR.

HVAC GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE HVAC SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS, SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR STRUCTURAL CONDITIONS OR OTHER CONDITIONS.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. ALL DUCTWORK IS TO BE ROUTED AS HIGH A POSSIBLE. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE AND SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
5. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
6. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH ARCHITECTURAL TRADES. SEAL ALL PIPING AND DUCT PENETRATIONS.
7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
8. COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
9. BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
10. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
11. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT, REFER TO PIPING DIAGRAMS AND DETAILS.
12. PAINT ALL VISIBLE INTERIOR SURFACES OF EXHAUST/RETURN GRILLES, REGISTERS AND VISIBLE ASSOCIATED DUCTWORK FLAT BLACK.
13. THE PARTIAL FIRST FLOOR CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.
14. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS, VALVES, AND CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.
15. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
16. SEAL ALL DUCTWORK AND PIPING PENETRATIONS.

0 1/2" 1" 2"
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Project :
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THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICK TOWNSEND · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
FIFTH FLOOR HVAC PLAN

Project No. :
2018.009

Sheet No. :
M250

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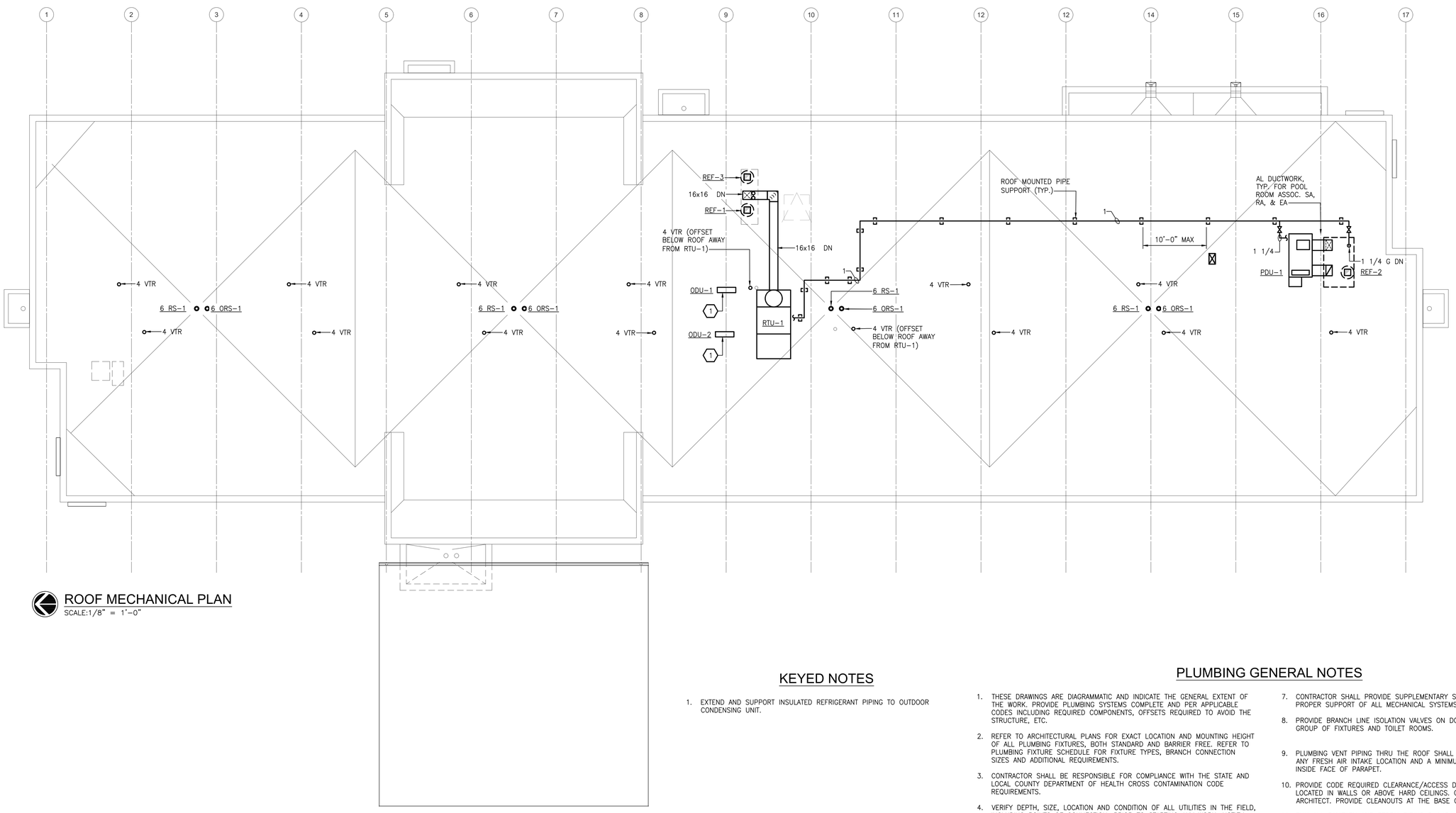

ROOF MECHANICAL PLAN

SCALE:1/8" = 1'-0"

KEYED NOTES

1. EXTEND AND SUPPORT INSULATED REFRIGERANT PIPING TO OUTDOOR CONDENSING UNIT.

PLUMBING GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL PLUMBING FIXTURES, BOTH STANDARD AND BARRIER FREE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPES, BRANCH CONNECTION SIZES AND ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE AND LOCAL COUNTY DEPARTMENT OF HEALTH CROSS CONTAMINATION CODE REQUIREMENTS.
4. VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING ANY WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY INTERFERENCES OR DISCREPANCIES.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WORK WITH THE WORK OF ALL OTHER TRADES, EXISTING SITE CONDITIONS, AND EQUIPMENT MANUFACTURER RECOMMENDATIONS. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY NEW WORK.
6. PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE AND SHALL MAINTAIN REQUIRED CLEARANCES OVER, AROUND AND IN FRONT OF ALL ELECTRICAL EQUIPMENT, PANELS, TRANSFORMERS, ETC. PIPING SHALL NOT INTERFERE WITH, OR BE INSTALLED IN A LOCATION THAT RESTRICTS ACCESS OR CLEARANCE TO ELECTRICAL OR MECHANICAL DEVICES. PROVIDE REQUIRED ACCESS AND CLEARANCE AROUND ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
7. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
8. PROVIDE BRANCH LINE ISOLATION VALVES ON DOMESTIC PIPING TO EACH GROUP OF FIXTURES AND TOILET ROOMS.
9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR VALVES/CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS.
11. RUN ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
12. PROVIDE "INLINE" TRAP SEAL PROTECTION OR TRAP PRIMER ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
13. AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT-OFF VALVE, TEE AND 6" LONG DIRT LEG WITH CAP. WEATHERPROOF PAINT ALL EXTERIOR GAS PIPING.
14. THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.

0 1/2" 1" 2"
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Project :
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Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOWNSEND · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
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Checked by :

Sheet Title :
ROOF MECHANICAL PLAN

Project No. :
2018.009

Sheet No. :
M260

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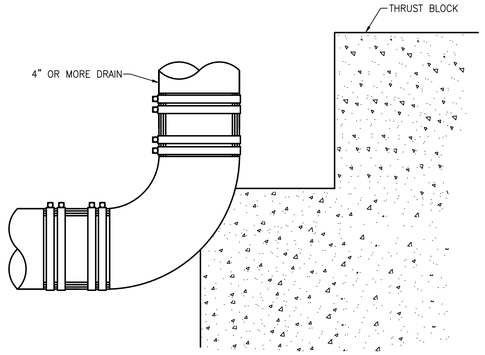
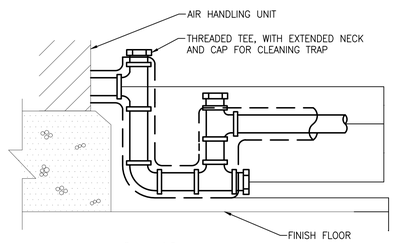


1. ANCHORAGE SHALL BE PROVIDED AT EVERY BRANCH OPENING OR CHANGE OF DIRECTION TO RESTRAIN DRAINAGE PIPING FROM AXIAL MOVEMENT, OR JOINT SEPARATION.

STORM AND SANITARY ANCHORAGE DETAIL

NO SCALE



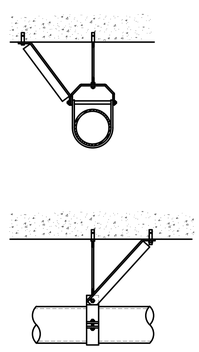
A = GREATER OF 4" OR 1/2" PLUS
(BLOW-THRU) AHU TOTAL PRESSURE IN INCHES-WC

B = GREATER OF 2" OR 1/2" PLUS
(DRAW-THRU) AHU TO TOTAL PRESSURE IN INCHES-WC

NOTES:
1"ø MIN PIPE SIZE OR DRAIN SIZE TAP IN AHU, INSULATE FOR CONDENSATE CONTROL AS REQD

CONDENSATE DRAIN TRAP

NO SCALE



NOTE:
RIGID SUPPORT SWAY BRACING SHALL BE PROVIDED AT CHANGES IN DIRECTION GREATER THAN 45 DEGREE FOR PIPE SIZES 4" AND LARGER, TO PREVENT LATERAL MOVEMENT.

DRAINAGE PIPE SWAY BRACING DETAIL

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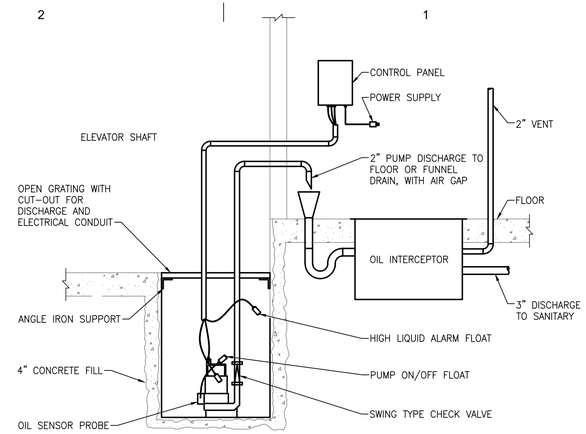

ELEVATOR SUMP PUMP WITH OIL INTERCEPTOR DETAIL

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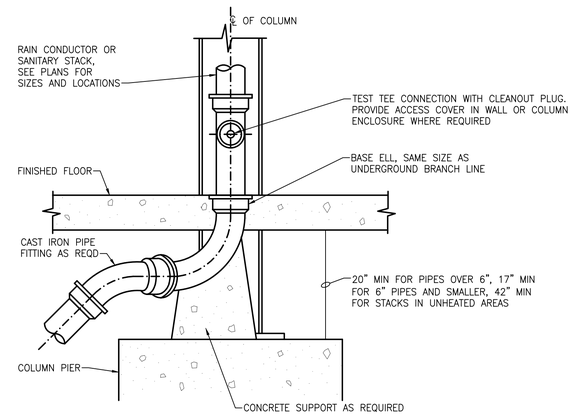

TYPICAL BASE CONNECTION FOR RAIN CONDUCTOR AND SANITARY STACKS

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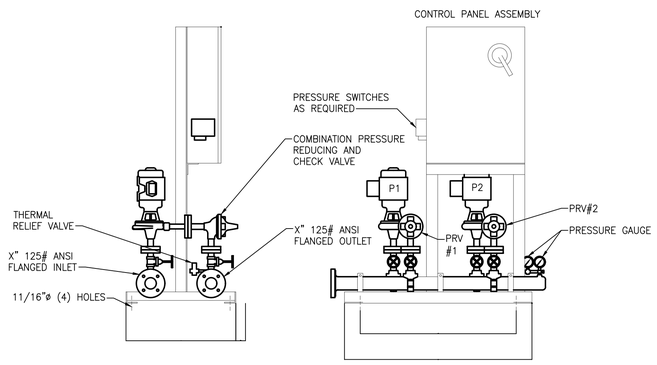

DUPLEX PRESSURE BOOSTER PACKAGE

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ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

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04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Project No. :
2018.009

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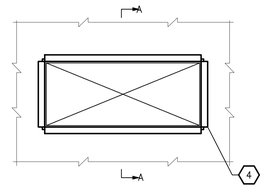
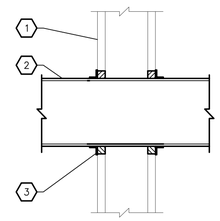


FRONT VIEW



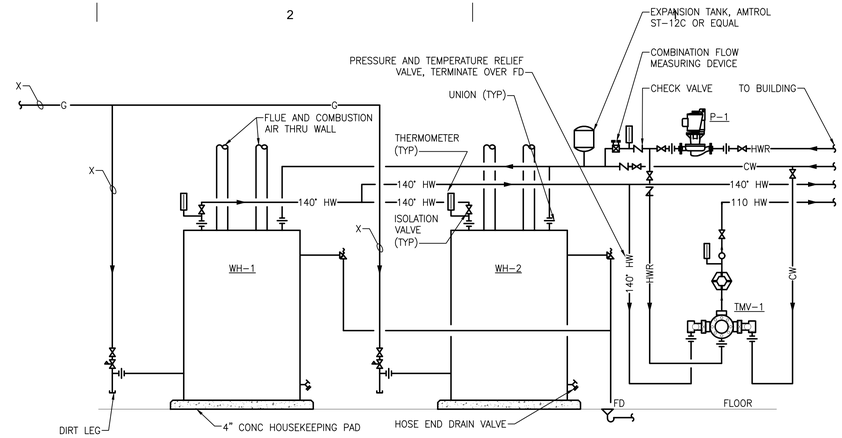
SECTION A–A

NOTES:

1. GYPSUM WALL ASSEMBLY. REFER TO ARCHITECTURAL PLANS
2. RECTANGULAR STEEL DUCT (MINIMUM 24 GAUGE). REFER TO PLANS FOR SIZING.
3. MINIMUM 5/8 " DEPTH HILTI CP 601S ELASTOMETRIC FIRESTOP SEALANT INSTALLED FLUSH WITH BOTH SURFACES OF WALL.
4. AFTER SEALING SPACE BETWEEN DUCT AND WALL WITH HILTI CP 601S, FASTEN STEEL ANGLE (L2 x 2 x 1/8") TO DUCT WITH NO. 8 (OR LARGER) STEEL SHEET METAL SCREWS. ANGLE DOES NOT HAVE TO BE FASTENED TO THE WALL.

DUCT PENETRATION (WITHOUT DAMPER) THRU 1-HR GYPSUM WALL

NO SCALE



GAS FIRED DOMESTIC WATER HEATER DIAGRAM PIPING DIAGRAM

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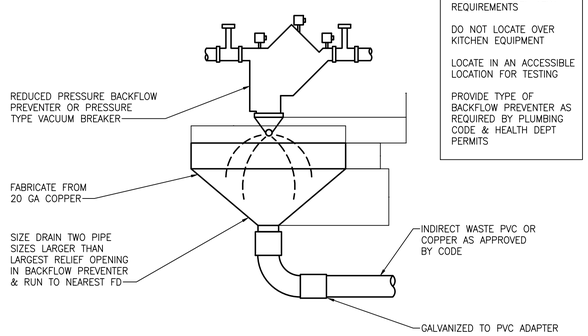


NOTES:
INSTALL DRIP PAN MIN 2'-0" ABOVE CEILING

SIZE PER RELIEF VENT REQUIREMENTS

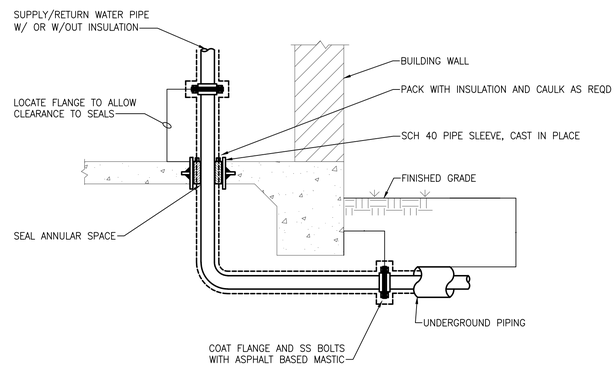
DO NOT LOCATE OVER KITCHEN EQUIPMENT

LOCATE IN AN ACCESSIBLE LOCATION FOR TESTING

PROVIDE TYPE OF BACKFLOW PREVENTER AS REQUIRED BY PLUMBING CODE & HEALTH DEPT PERMITS

BACKFLOW PREVENTER DRIP PAN DETAIL

NO SCALE



PIPE PENETRATION THRU CONCRETE FLOOR

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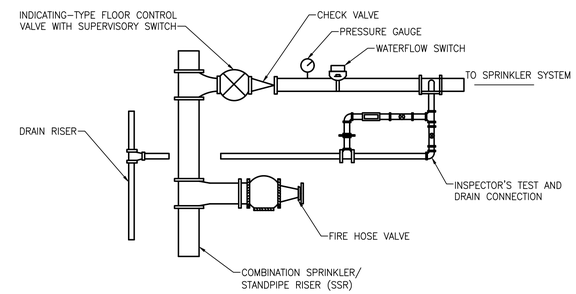

COMBINED SPRINKER/STANDPIPE

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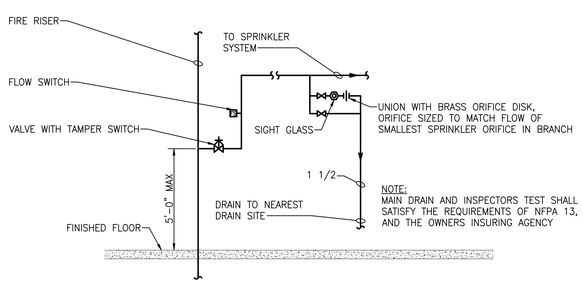
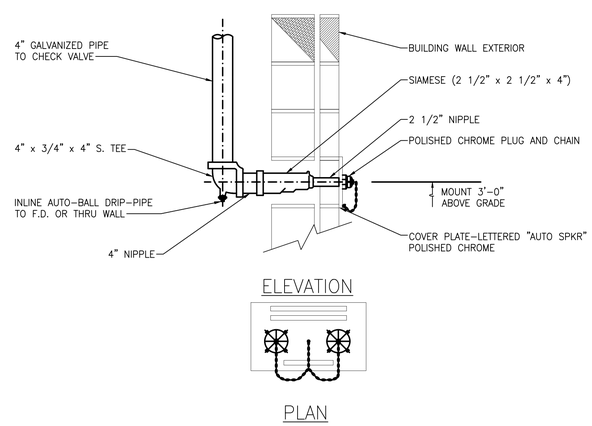


NOTE:
MAIN DRAIN AND INSPECTORS TEST SHALL SATISFY THE REQUIREMENTS OF NFPA 13, AND THE OWNERS INSURING AGENCY

INSPECTORS TEST/DRAIN DETAIL

NO SCALE



FIRE DEPARTMENT CONNECTION DETAIL

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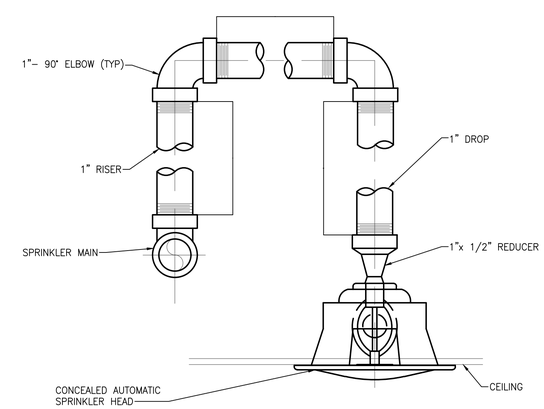

TYPICAL SPRINKLER PIPING DETAIL

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Holiday Inn Express & Suites

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HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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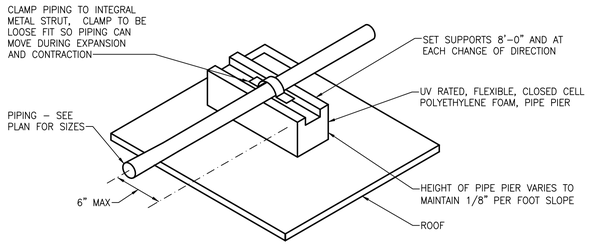

ROOF GAS PIPE SUPPORT DETAIL

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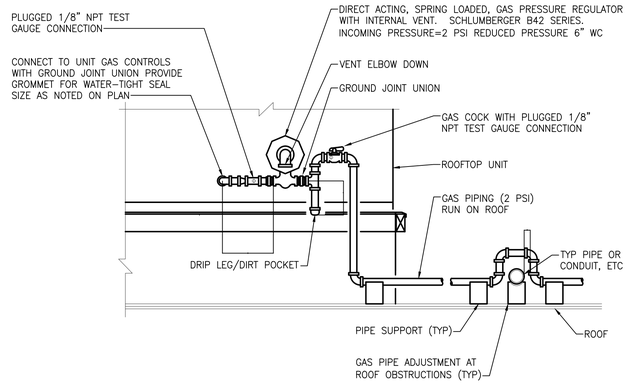

TYPICAL GAS PIPING CONNECTION DETAIL

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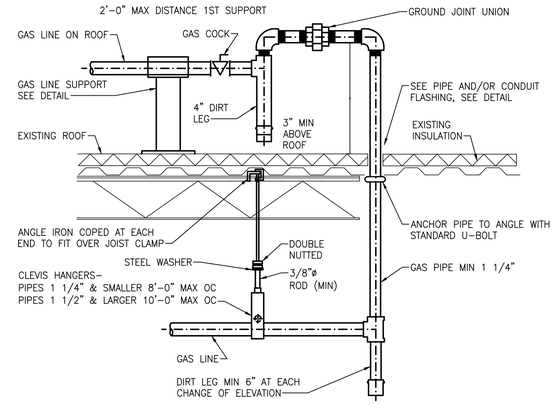
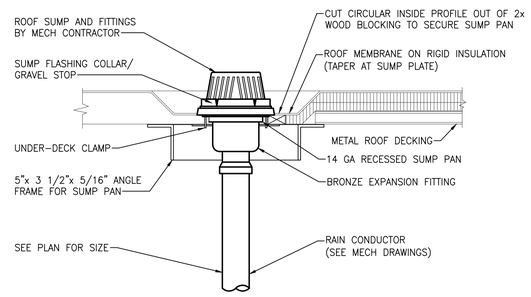


GAS PIPE THRU ROOF DETAIL

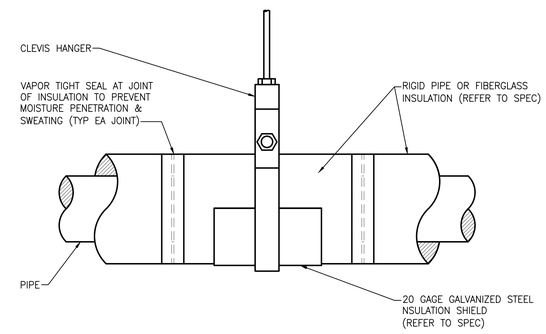
NO SCALE



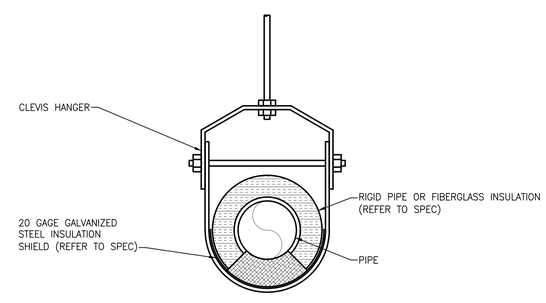
NOTE:
MECHANICAL AND ARCHITECTURAL TRADES SHALL COORDINATE ALL REQUIREMENTS TO ASSURE PROPER WATERTIGHT INSTALLATION.

TYPICAL ROOF SUMP

NO SCALE



ELEVATION



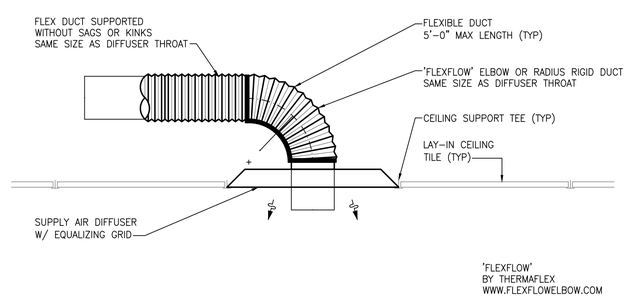
SECTION

NOTES:

PRE-INSULATED PIPE SUPPORTS SHALL BE USED TO ALLOW PROPER ALIGNMENT OF PIPING DURING INSTALLATION. PRE-INSULATED HANGERS SHALL BE PIPE SHIELDS INCORPORATED OR APPROVED EQUAL, REFER TO SPECIFICATIONS.

INSULATED PIPE HANGER DETAIL

NO SCALE



SUPPLY AIR DIFFUSER DETAIL

NO SCALE

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SES Project # 20 0262 02

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

BIDS/PERMITS	04.30.21

STATE OF NEW YORK · PATRICKEN TOWNSEND · 098078 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
MECHANICAL DETAILS

Project No. :
2018.009

Sheet No. :
M502

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PATH: S:\20 0262 02 HOLIDAY INN EXP NY\CAD\MECH\20262002_M500.DWG
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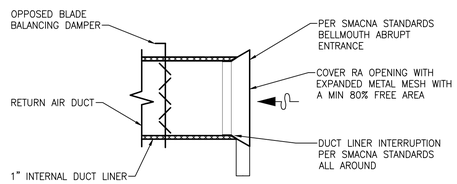
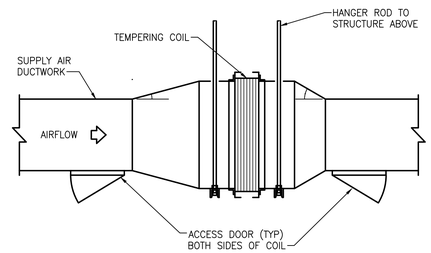


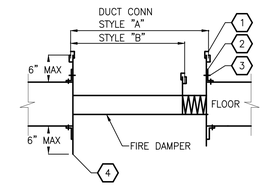
PLENUM RETURN BELLMOUTH WITH DAMPER

NO SCALE

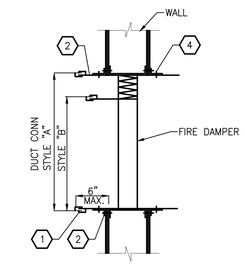


TEMPERING COIL - DUCT MOUNTED INSTALLATION

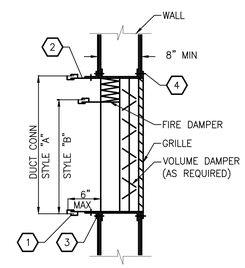
NO SCALE



HORIZONTAL INSTALLATION DUCTED CONNECTIONS



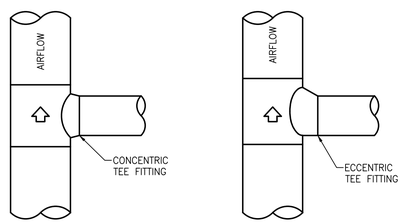
VERTICAL INSTALLATION DUCTED CONNECTIONS



VERTICAL INSTALLATION WITH GRILLE

NOTES:

1. S-SLIP DUCT CONNECTION.
2. 16 GA. SHEET METAL SLEEVE.
3. 1 1/2" X 1 1/2" X 16" GA. OR HEAVIER ANGLE, SNUG TO SLEEVE AND FLOOR (OR WALL) ALL AROUND.
4. BOLTS, SHEET METAL SCREWS (#10), OR 3/16" STEEL RIVETS @ MIN 8" OC STARTING 2" FROM EACH CORNER.



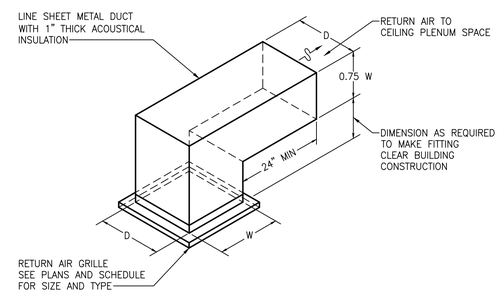
SUPPLY DUCT

RETURN OR EXHAUST DUCT

FLAT OVAL DUCT BRANCH TAKE-OFF SIMILAR

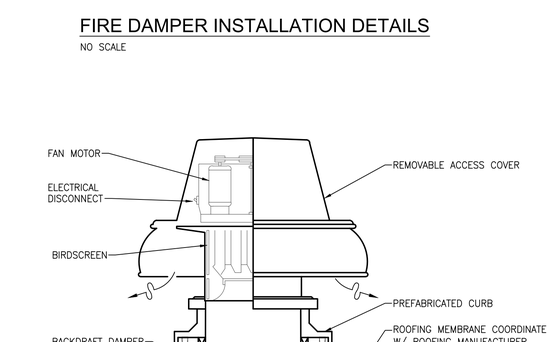
ROUND DUCT BRANCH TAKE-OFF DETAILS

NO SCALE



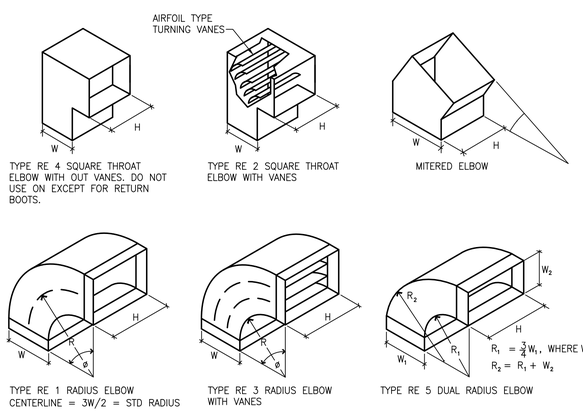
PLENUM RETURN GRILLE/BOOT DETAIL

NO SCALE



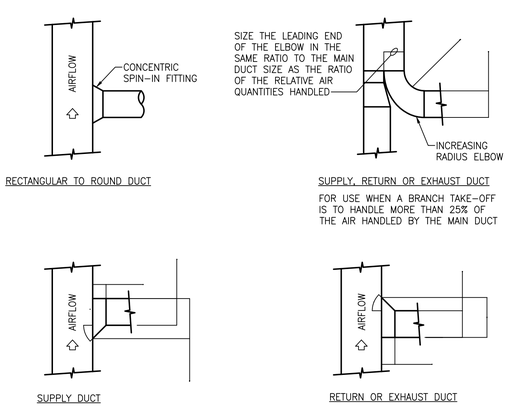
FIRE DAMPER INSTALLATION DETAILS

NO SCALE



RECTANGULAR SHEET-METAL ELBOWS

NO SCALE



RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS

NO SCALE

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Holiday Inn Express & Suites

Project :

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THRUWAY PLAZA OF
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ROCKLAND COUNTY, NY
10954

Issued for :

BIDS/PERMITS	04.30.21

STATE OF NEW YORK · PATRICKEN TOMAS · 088076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
MECHANICAL DETAILS

Project No. :
2018.009

Sheet No. :
M503

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PATH: S:\20 0262 02 HOLIDAY INN EXP NY\CAD\MECH\20200202_M500.DWG
PLOT DATE: 4/30/2021 11:51 AM

PACKAGED DX ROOFTOP UNIT WITH GAS HEAT SCHEDULE

UNIT ID	SERVICE	ARRANGEMENT	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	SUPPLY FAN: MOTOR HP	SUPPLY FAN: MOTOR QTY.	SUPPLY FAN: ESP (IN WG)	SUPPLY FAN: TYPE	DX COOLING SECTION: TOTAL CAPACITY (MBH)	DX COOLING SECTION: SENSIBLE CAPACITY (MBH)	DX COOLING SECTION: EER/IEER	DX COOLING SECTION: COMP QTY	DX COOLING SECTION: COMP TYPE	MODULATING HOT GAS REHEAT COIL: CAPACITY (MBH)	MODULATING HOT GAS REHEAT COIL: AIR EDB °F	MODULATING HOT GAS REHEAT COIL: AIR LDB °F	GAS HEATING SECTION: INPUT CAPACITY (MBH)	GAS HEATING SECTION: OUTPUT CAPACITY (MBH)	GAS HEATING SECTION: AIR EDB °F	GAS HEATING SECTION: AIR MAX LDB °F	UNIT DIMENSIONS: LENGTH (IN)	UNIT DIMENSIONS: WIDTH (IN)	UNIT DIMENSIONS: HEIGHT (IN)	FILTER: TYPE (PRE/FINAL)	ELECTRICAL: VOLTS	ELECTRICAL: PHASE	ELECTRICAL: MCA	ELECTRICAL: MROPD	MODEL NO.	WEIGHT
RTU-1	OUTSIDE AIR	DOWNFLOW	1450	1450	1	1	1.0	BI	100.2	42.7	10.4/19.5	1	INVERTER	38.0	55	80	150	120	0	75.2	10'-10"	5'-4"	5'-6"	2" MERV-8	208	3	36.5	60	62XB08	2010

NOTES:
1. BASIS OF DESIGN: DAIKIN
2. FACTORY NON-FUSED DISCONNECT
3. 2" MERV 8 & 4" MERV 13 IN DRAW THROUGH POSITION
4. 2" INSULATED DOUBLE WALL CONSTRUCTION
5. 12:1 GAS HEATER TURNDOWN, 3/4 CONN.
6. VFD ON SUPPLY AND EXHAUST FANS
7. STAINLESS STEEL DRAIN PAN
8. FIELD POWERED GFI
9. THRU THE BASE SINGLE POINT ELECTRICAL CONNECTION (EXCEPT CONVENIENCE OUTLET)
10. 0-100% COMPARATIVE ENTHALPY ECONOMIZER.
11. 10 YEAR HEAT EXCHANGER WARRANTY
12. HOT GAS REHEAT
13. FLOAT SWITCH IN DRAIN PAN TO DE-ENERGIZE UNIT
14. ACOUSTICALLY LINED, FULLY INSULATED, SOLID BOTTOM ROOF CURB AT LEAST 14" ABOVE ROOF INSULATION. ACOUSTICAL CURB LINING SHALL CONSIST OF MINIMUM TWO LAYERS OF 2" THICK ACOUSTICAL INSULATION AND FOUR LAYERS OF 0.5" THICK GREEN GYP. BOARD WITH SEALED 18 GA GLAV. STEEL COVER OVER ALL CONFINED AREAS.
15. PREMIUM EFFICIENCY INVERTER DUTY MOTORS
16. R-410A

PLUMBING FIXTURE SCHEDULE

TAG	BARRIER FREE	ITEM	PIPE CONNECTION SIZES: WASTE	VENT	CW	HW	MANUFACTURER & MODEL NO.	ACCESSORIES
EWC-1	Y	BI-LEVEL ELECTRIC WATER COOLER	2"	1 1/2"	1 1/2"	-	ELKAY: EZWS-ERPBM28K	
EWC-2	Y	ELECTRIC WATER COOLER AND BOTTLE FILLING STATION	2"	1 1/2"	1 1/2"	-	ELKAY: EZWSGRN8PK	
FD-1	-	FLOOR DRAIN	3"	1 1/2"	-	-	ZURN: Z-415-B	
FD-2	-	FLOOR DRAIN	3"	1 1/2"	-	-	ZURN: Z-415-PW	TYPE "E" STRAINER AND 4" FUNNEL
FS-1	-	FLOOR SINK	3"	1 1/2"	-	-	ZURN: Z-1902-K-P	
TD-1	-	TRENCH DRAIN WITH LINT TRAP	3"	-	-	-	JAY. R SMITH: SQ-TD-0203-66	
LAV-1	Y	UNDERMOUNT LAVATORY (HOTEL ROOM)	1 1/2"	1 1/2"	1/2"	1/2"	KOHLER: ARCHER K-2355	FAUCET: KOHLER 99491-CP /DRAIN 7129-A-CP W/GRID STRAINER DRAIN AND CHROME PLATED P-TRAP
LAV-2	Y	UNDERMOUNT LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	KOHLER: ARCHER K-2355	FAUCET: KOHLER 99491-CP /DRAIN 7129-A-CP W/GRID STRAINER DRAIN AND CHROME PLATED P-TRAP
LAV-3	Y	WALL MOUNTED LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	KOHLER: SOHO K-2084-0	FAUCET: KOHLER 99491-CP /DRAIN 7129-A-CP W/GRID STRAINER DRAIN AND CHROME PLATED P-TRAP
BT-1	Y	BATHTUB/SHOWER (HOTEL ROOM)	2"	1-1/2"	1/2"	1/2"	STERLING: 7112 ENSEMBLE WITH DELTA 52003 WITH T13420 SHOWER TRIM AND R10000-UNWS VALVE	60"X32" ADA COMPLIANT TUB/SHOWER UNIT; WITH 1.5 GPM SHOWER HEAD, ARM AND FLANGE, DIVERTER FOR DUAL SHOWERS, AND HANDHELD WAND WITH STAINLESS STEEL HOSE AND 36" SLIDE/GRAB BAR. PRESSURE BALANCED MIXING VALVE SHALL MEET ASSE 1016 AND HAVE UNIVERSAL INLETS/OUTLETS AND SUPPLY STOPS.
SS-1	-	SERVICE SINK	3"	1 1/2"	3/4"	3/4"	FIAT: MSB-2424	FAUCET: FIAT # 830-AA W/VACUUM BREAKER, STAINLESS STEEL GRID STRAINER, PAIL HOOK AND HOSE THREAD, HOSE AND MOP HANGERS.
UR-1	Y	WALL MOUNTED URINAL	2"	1 1/2"	3/4"	-	KOHLER: BARDON SUPERIOR K-4960-ET	FLUSH VA: CARRIER:
WC-1	Y	WATER CLOSET - FLUSH TANK, FLOOR MOUNTED	3"	1-1/2"	3/4"	-	KOHLER: K-25077-SSRA	ADA, VITREOUS CHINA, FLOOR MOUNTED, FLUSH TANK, 12" ROUGH IN, ANTIMICROBIAL FINISH; PROVIDE WITH OPEN FRONT SEAT; 1.28 GPF
WM-1	-	WASHING MACHINE OUTLET BOX	3"	1 1/2"	1/2"	1/2"	IPS: GUY GRAY T SERIES	

NOTES:

1. SUPPLY ALL FIXTURES WITH LOOSE KEY STOPS.
2. PROVIDE ALL ACCESSORIES NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
3. PROVIDE CARRIERS FOR ALL FIXTURES PER MANUFACTURER'S RECOMMENDATIONS.
4. WHERE REQUIRED AND WHERE DESIGNATED, FIXTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE TO THE LATEST EDITION OF "THE BARRIER" FREE DESIGN REQUIREMENTS OF THE STATES CONSTRUCTION CODE.
5. ALL FIXTURES SHALL MEET MICHIGAN DEPT. OF PUBLIC HEALTH REQUIREMENTS, AND SHALL BE SUITABLE FOR FOOD PREPARATION AREAS.
6. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION/MOUNTING HEIGHT OF ALL FIXTURES.

THERMOSTATIC MIXING VALVE SCHEDULE

UNIT ID	SYSTEM SERVED	MIN. FLOW (GPM)	MAX. FLOW (GPM)	PRESS. DROP AT MAX. FLOW (PSIG)	REQ. FLOW (GPM)	MANUFACTURER/ MODEL NO.	REMARKS
TMV-1	DOM. HOT WATER	1	85	20	68	POWERS / LFSH1434	

NOTES:

LOUVER SCHEDULE

UNIT ID	CFM	MAX FREE AREA VELOCITY (FPM)	MAX PD (IN. W.G.)	FACE SIZE (IN)	MIN. SQ. FT. FREE AREA	MOUNTING	MATERIAL	TYPE	MODEL NO.	SERVES
EL-1	150	--	-	14x12	0.36	SIDEWALL	ALUMINUM	DRAINABLE	ESD-435	FIRE PUMP ROOM VENTILATION
EL-2	225	750	.06	14x12	0.36	SIDEWALL	ALUMINUM	DRAINABLE	ESD-435	PANTRY EXHAUST
EL-3	225	750	.06	14x12	0.36	SIDEWALL	ALUMINUM	DRAINABLE	ESD-435	GENERAL (ADMIN) EXHAUST
EL-5	-	-	-	14x12	-	SIDEWALL	ALUMINUM	DRAINABLE	ESD-435	GENERAL RESTROOM EXHAUST
EL-6	700	-	-	24x24	-	SIDEWALL	ALUMINUM	DRAINABLE	ESD-435	POOL ROOM EXHAUST
EL-7	225	750	.06	14x12	0.36	SIDEWALL	ALUMINUM	DRAINABLE	ESD-435	1ST FLR RESIDENTIAL EXHAUST
IL-1	-	-	-	36x24	3.42	SIDEWALL	ALUMINUM	DRAINABLE	ESD-435	DRYER MAKE-UP
IL-2	60 OA 650 COND	BY PTAC MFG	BY PTAC MFG	26x32	BY PTAC MFG	SIDEWALL	ALUMINUM	STATIONARY	FRIEDRICH VPSC2	VTAC

TYPICAL ACCESSORIES:
1. EXHAUST LOUVERS: AMCA LEAKAGE CERTIFIED BACKDRAFT DAMPER.
2. IL-1: LOW LEAK MOTOR OPERATED DAMPER WITH END SWITCH.
3. 1/2" ALUMINUM BIRD SCREEN.
4. COLOR TO MATCH BUILDING. FACTORY KYNAR FINISH BY ARCHITECT. SUBMIT WITH COLOR SAMPLE FOR ARCHITECTURAL REVIEW. COORDINATE INSTALLATION DETAILS AND ACCESSORIES WITH ARCHITECT.

NOTES:
1. BASIS OF DESIGN: GREENHECK UNO, FURNISHED AND INSTALLED BY MC.
2. LOUVER SHALL BE DESIGNED TO PREVENT MOISTURE CARRYOVER BELOW 1000 FPM.
3. PROVIDE ALL ALUMINUM CONSTRUCTION.
4. REFER TO ARCHITECTURAL PLANS FOR MOUNTING REQUIREMENTS.
5. PROVIDE MISC. MOUNTING HARDWARE

BOOSTER PUMP SCHEDULE

UNIT ID	SERVICE	TYPE	NUMBER OF PUMPS	FLOW PER PUMP (GPM)	SUCTION PRESSURE	HEAD (FT)	SUCTION & DISCHARGE SIZE	MIN % EFF	ELECTRICAL: HP	ELECTRICAL: RPM	ELECTRICAL: VOLTS	ELECTRICAL: PHASE	ELECTRICAL: MOTOR FLA	ELECTRICAL: PANEL FLA	DISCONNECT: FURN. BY	DISCONNECT: INST. BY	CONTROLLER: TYPE	CONTROLLER: FURN. BY	CONTROLLER: INST. BY	MANUFACTURER/ MODEL NO.	REMARKS
BP-1	DOMESTIC WATER	DUPLEX	2	133.7	30	123	4"	73	2x7.5	3450	208/240	3	20.0	41	26	26	VDF	23	23	GRUNDFOS HYDRO MPC-E 2CRE 32- - 3X20	

DOMESTIC WATER HEATER SCHEDULE (TANKLESS GAS)

UNIT ID	LOCATION/ AREA SERVED	CAPACITY: FLOW (GPM)	CAPACITY: TEMP RISE (°F)	FUEL TYPE	GAS PRESS MIN - MAX (IN WG)	INPUT (MBH)	THERMAL EFFICIENCY	HEAT EXCHANGER MATERIAL	VENTING: SIZE (IN)	VENTING: MATERIAL	VENTING: MAX. LENGTH (FT)	ELECTRICAL: MOCP	ELECTRICAL: FLA	ELECTRICAL: VOLTS	ELECTRICAL: PH	DISCONNECT: FURN. BY	DISCONNECT: INST. BY	DISCONNECT: TYPE	WEIGHT (LBS)	MANUFACTURER/ MODEL NO.	REMARKS
DWH-1	MECHANICAL ROOM	34.3	100	GAS	4.0 - 14	1060	96%	STAINLESS STEEL	6	PER LOCAL CODE	100	20	11	120	1	26	26	TOG	1190	AERCO / INN 1060	
DWH-2	MECHANICAL ROOM		100	GAS	4.0 - 14	1060	96%	STAINLESS STELL	6	PER LOCAL CODE	100	20	11	121	1	26	26	TOG	1190	AERCO / INN 1060	

NOTES:

1. HYDROPNEUMATIC TANK.

OUTDOOR POOL DEHUMIDIFICATION UNIT SCHEDULE

UNIT ID	SUPPLY: CFM	SUPPLY: OA	SUPPLY: BLOWER TYPE	SUPPLY: ESP	SUPPLY: HP	SUPPLY: FLA	DX COOLING COIL: TOTAL CAPACITY (MBH)	DX COOLING COIL: SENSIBLE CAPACITY (MBH)	DX COOLING COIL: LATENT CAPACITY	DX COOLING COIL: COMP. TYPE	DX COOLING COIL: COMP. QTY	DX COOLING COIL: RLA/LRA	CONDENSER: QTY	CONDENSER: HP	CONDENSER: FLA	HOT GAS REHEAT SECTION: CAP (MBH)	HOT GAS REHEAT SECTION: CONTROL	NAT. GAS PREHEAT: INPUT (MBH)	NAT. GAS PREHEAT: OUT (MBH)	NAT. GAS PREHEAT: TURN DOWN	ELECTRICAL: V	ELECTRICAL: PH	ELECTRICAL: FLA	ELECTRICAL: MCA	ELECTRICAL: MOCP	MODEL	WEIGHT	REMARKS
PDU-1	1200	650	BI PLENUM	1.25	2	7.5	58.5	38.0	20.5	MODULATING	1	/16.1	1	1/3	2.8	14	MODULATING	100	81	8.3:1	208	3	26	30	45	RQ-004	972	

NOTES:
1. BASIS OF DESIGN: AAON. ROOM CONDITIONS 84F DB/55% RH. 90F WATER TEMP.
2. TWO INCH DOUBLE WALLED CABINET.
3. R-410A.
4. UNIT MTD. NON-FUSED DISCONNECT.
5. OUTDOOR AIR OPERATED DAMPER AND FILTER.
6. MODULATING GAS HEAT.
7. PACKAGED INTEGRAL AIR-COOLED AIR CONDITIONING.
8. ROOF CURB

SINGLE ZONE COOLING ONLY DX SPLIT SYSTEM SCHEDULE

INSIDE MARK	AREA SERVED	SUPPLY CFM	OA CFM	ESP	RATED CLG CAP: MBH	FAN COIL ELECTRICAL: MCA	FAN COIL ELECTRICAL: FAN FLA	FAN COIL ELECTRICAL: MTR W	FAN COIL ELECTRICAL: V	FAN COIL ELECTRICAL: PH	FCU MODEL NO.	OUTSIDE TAG	NOM. TONS	MINIMUM SEER	CONDENSING UNIT ELECTRICAL: MCA	CONDENSING UNIT ELECTRICAL: MOCP	CONDENSING UNIT ELECTRICAL: FUSE	CONDENSING UNIT ELECTRICAL: V	CONDENSING UNIT ELECTRICAL: PH	CU MODEL NO.
IDU-1	ELEVATOR EQIPMENT	530	NOT REQ.	N/A	12	1.0	0.33	30	208	1	PKA-A12HA6	ODU-1	1.0	15.2	13	15	15	208	1	PUY-A12NHA6
IDU-2	PBX	530	NOT REQ.	N/A	12	1.0	0.33	30	208	1	PKA-A12HA6	ODU-2	1.0	15.2	13	15	15	208	1	PUY-A12NHA6

NOTES:
1. BASIS OF DESIGN: MITSUBISHI.
2. INVERTER DRIVEN COMPRESSOR
3. INTEGRAL, UNIT POWERED CONDENSATE PUMP: 27" LIFT.
4. INDOOR UNITS RECEIVE POWER FROM OUTDOOR UNITS THROUGH FIELD SUPPLIED INTERCONNECTED COPPER WIRING BY DIV. 26.
5. WIRED LOW VOLTAGE WALL MTD THERMOSTAT.
6. UNIT/SYSTEM EFFICIENCIES MUST EXCEED ASHRAE 90.1-2007.
7. DISCONNECTS (INDOOR AND OUTDOOR) BY DIV. 26
8. PROVIDE INDOOR AND OUTDOOR COMPONENTS FULLY CHARGED WITH R410A REFRIGERANT AND INTERCONNECTING REFRIGERANT PIPING FOR FIELD INSTALLATION.
9. PROVIDE INTERCONNECTING CONTROL WIRING RAN IN CONDUIT.
10. AIR FILTER IN INDOOR UNIT
11. LIMITED WARRANTY: FIVE YEAR PARTS AND SEVEN YEARS COMPRESSOR

PUMP SCHEDULE

UNIT ID	SYSTEM SERVED	TYPE	FLOW (GPM)	HEAD (FT)	HP	VOLTS	PHASE	DISCONNECT: FURN. BY	DISCONNECT: INST. BY	STARTER: TYPE	STARTER: FURN. BY	STARTER: INST. BY	MANUFACTURER/ MODEL NO.	REMARKS
P-1	DOMESTIC HOT WATER RETURN	INLINE	28	50	1 1/2	208	3	E	E	HOA	M	E	B&G	LEAD FREE

NOTES:

1. PERFORMANCE BASED ON WATER, UNLESS OTHERWISE INDICATED.

SUMP PUMP SCHEDULE

UNIT ID	SYSTEM SERVED	TYPE	NUMBER OF PUMPS	FLOW PER PUMP (GPM)	HEAD (FT)	SUMP BASIN: SIZE (IN)	SUMP BASIN: DEPTH (IN)	ELECTRICAL: HP	ELECTRICAL: VOLTS	ELECTRICAL: PHASE	DISCONNECT: FURN. BY	DISCONNECT: INST. BY	DISCONNECT: TYPE	CONTROL: TYPE	CONTROL: FURN. BY	CONTROL: INST. BY	MANUFACTURER/ MODEL NO.	REMARKS
SP-1	ELEVATOR	SUBMERSIBLE	1	50	20	18x18	30	.5	120	1	E	E	SWITCH	NOTE 1	M	E	B&G: 1EC0511	

NOTES:

1. SIMPLEX PUMP CONTROL PANEL WITH AUDIBLE/VISUAL ALARM AND TWO FLOATS (ON/OFF AND HIGH WATER).

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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS THRUWAY PLAZA OF ROCKLAND ASSOCIATES CLARKSTOWN (NANUET) ROCKLAND COUNTY, NY 10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · SCOTT TRICKEN · LICENSED PROFESSIONAL ENGINEER · 088076

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES

Checked by :

Sheet Title : MECHANICAL SCHEDULES

Project No. : 2018.009

Sheet No. : M600

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CONDENSING UNIT SCHEDULE

UNIT ID	MINIMUM SEER	ELECTRICAL				COMPRESSORS		MODEL NO.	WEIGHT	REMARKS
		MCA	MAX FUSE	VOLTS	PHASE	NO.	TYPE			
CU-1A	13	37.3	60	208/230	1	1	1-STAGE SCROLL	24ACB	323	5 YEAR COMPRESSOR WARRANTY
CU-1B	13	37.3	60	208/230	1	1	1-STAGE SCROLL	24ACB	323	5 YEAR COMPRESSOR WARRANTY
CU-2	17	23.6	40	208/230	1	1	2-STAGE SCROLL	24ACB742	108	5 YEAR COMPRESSOR WARRANTY

NOTES:
1. MODEL NUMBERS ARE CARRIER
2. SOUND BLANKET.
3. CRANKCASE HEATER.
4. R410-A (PURON), FACTORY CHARGED.
5. HIGH AND LOW PRESSURE SWITCH.
6. PROVIDE FULLY CHARGED INTERCONNECTING REFRIGERANT PIPING SIZED BY MANUFACTURER.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

UNIT ID	FACE SIZE	NECK SIZE	MOUNTING	ACCESSORY	FINISH	MATERIAL	PRICE/ MODEL NO.	REMARKS
S-1	24"x24"	SEE PLANS	CEILING	-	WHITE	STEEL	SPD	
S-2	24x12	SEE PLANS	CEILING	-	WHITE	STEEL	SPD	
S-3	NECK+2	SEE PLANS	SURFACE	-	WHITE	STEEL	520D	
S-4	NECK+2"	SEE PLANS	SPIRAL DUCT	-	WHITE	ALUMINUM	SDG AL	POOL ROOM
S-5	48x1.5 SLOT	SEE PLANS	CONCEALED FRAME	ACCESSIBLE DAMPER	CONCEALED	ALUMINUM	CFP	
R-1	24"x24"	22x22	CEILING	-	WHITE	STEEL	PDDR or 80	PROVIDE WITH SOUND ATTEN. BOOT IF NOT DUCTED.
R-2	24"x12"	22x10	CEILING	-	WHITE	STEEL	PDDR or 80	PROVIDE WITH SOUND ATTEN. BOOT IF NOT DUCTED.
R-3	NECK+2"	SEE PLANS	SURFACE	-	WHITE	STEEL	530D	
E-1	24"x12"	22x10	CEILING	-	WHITE	STEEL	PDDR OR 80	
E-2	NECK+2"	SEE PLANS	SURFACE	OPPOSED BLADE DAMP.	WHITE	ALUMINUM	530	
E-3	NECK+2"	SEE PLANS	SURFACE	RADIATION DAMPER W/BOOT	WHITE	STEEL	TBD/LOUVERED	COORDINATE MODEL WITH RATED FLOOR CEILING LISTING.
E-4	24"x24"	SEE PLANS	CEILING	-	WHITE	ALUMINUM	PDDR or 80	

NOTES:

1. REFER TO ARCHITECTURAL CEILING PLAN AND COORDINATE FRAME TYPE ACCORDINGLY.

FIRE PUMP SCHEDULE

UNIT ID	GPM	HEAD (PSI)	HP	VOLTS/ PHASE	MANUFACTURER	MODEL NO.	REMARKS
FP-1	500	55	25	208 / 3	AC FIRE PUMP	1580 4x4x7F	REMARKS

NOTES:

1. THIS IS AN ESTIMATED HEAD PRESSURE, CONTRACTOR TO PROVIDE HYDROSTATIC CALCULATIONS TO CONFIRM.
2. JOCKEY PUMP 5 GPM AT 110 PSI COMPLETE WITH 3/4 HP (208/3) MOTOR AND CONTROLS WIRED AS A PACKAGE FOR WALL MOUNTING.
3. DRY PRESSURE GUAGES.
4. CASING RELIEF VALVE.
5. GROVED END HOSE VALVE HEADER W/ GROOVED OUTLETS AND 2.5 INCH GROOVED INLET HOSE VALVES.
6. CONTROL PANEL W/SOFTSTART, AUTOMATIC TRANSFER SWITCH SUITABLE FOR USE WITH GENERATOR.

ZONE DAMPER SCHEDULE

UNIT ID	ZONE CFM	ASSOC. SYS. CFM	ASSOC. SYS. MIN CFM	DUCT CONNECTIONS	MAX NC LEVEL	MODEL NO.	NOTES
				INLET/OUT SIZE (IN)			
Z.1.1 TO Z1.N	SEE PLANS	3000	2000	SEE PLANS	35	MD SERIES	1,2,3,4
Z2.1 TO Z2.N	SEE PLANS	3000	2000	SEE PLANS	35	MD SERIES	2,3,4

NOTES:
1. TWINNING KIT WITH TRANSFORMER
2. BASIS OF DESIGN: IO HVAC CONTROLS WITH LATEST STYLE ACTUATOR.
3. AIRFLOW SHALL BE SET TO THE CFM INDICATED ON FLOOR PLANS.
4. ZONE ZP6 PANEL WITH ESP KIT, PRESSURE KIT, TEMP SENSORS, 75VA 24VAC TRANSFORMER.

GREASE INTERCEPTOR SCHEDULE

UNIT ID	FLOW RATE (GPM)	GREASE CAPACITY (LBS)	INSTALLATION TYPE	DIMENSIONS			MANUFACTURER/ MODEL NO.	REMARKS
				DEPTH (IN)	LENGTH (IN)	WIDTH (IN)		
GI-1	25	50	RECESSED IN RECIEVER	17	32	22	ZURN: MODEL Z1173-TD-RE SIZE 600	NON-SKID COVER, RECESSED HANDLE, FLOW CONTROL FITTING

NOTES:

1. COORDINATE LOCATION OF UNIT IN FLOOR WITH STRUCTURAL FOUNDATIONS AND FOOD SERVICE EQUIPMENT PRIOR TO INSTALLATION.

TWINNED GAS FURNACES WITH EVAPORATOR COILS SCHEDULE

UNIT ID	SUPPLY AIRFLOW (CFM)	OA	GAS HEAT		EVAPORATOR				MAXIMUM UNIT DIMENSIONS			ELECTRICAL					FURNACE MODEL NO.	EVAPORATOR MODEL NO.	REMARKS
			INPUT (MBH)	OUTPUT (MBH)	AIR							IMF FLA	UNIT MCA	MOCP	VOLTS	PH			
					EDB °F	EWB °F	LDB °F	LWB °F	LENGTH (IN)	DEPTH (IN)	HEIGHT (IN)								
F-1A	1475	ROOM DIRECT	60	57	80	67	58.06	57.18	29.5	21	35	-	14.7	20	115	1	59SP	CNPH	MUTI-STAGE H&C T-STAT
F-1B	1200	ROOM DIRECT	60	57	80	67	58.06	57.18	29.5	21	35	-	14.7	20	115	1	59SP	CNPH	TWINNING KIT
F-2	1200	ROOM DIRECT	60	57	80	67	58.06	57.18	29.5	21	35	10.1	14.7	20	115	1	59TP--------14	CNPH	MUTI-STAGE H&C T-STAT

NOTES:
1. MODEL NUMBERS ARE CARRIER.
2. FILTER FRAME
3. LOW VOLTAGE (24V) MULI-STAGE COMPATIBLE HEAT/COOL 7-DAY AUTOMATIC CHANGEOVER (FOUR SETTING PER DAY) THERMOSTAT W/UNIVERSAL GUARD.
4. START-UP BY UNIT MANUFACTURER.
5. F-1A/F-1B TWINNING KIT.
6. DIRECT VENT KIT.

ELECTRIC HEATER SCHEDULE

UNIT ID	MBH	KW /STAGE	CFM	ELECTRICAL			PHYSICAL SIZE (IN)			MOUNTING	MANUFACTURER/ MODEL NO.	REMARKS
				VOLTS	PHASE	AMPS	LENGTH/ DEPTH	HEIGHT	WIDTH			
EUH-1	17.1	5 /2	350	208	1	24	8	16	14	SUSPENDED	QMARK MUH0581	
ECUH-1	10.2	3 /2	250	208	1	15	10	26.5	35	INVERTED WALL	QMARK CU9000/FIFO	
ECUH-1	13.7	4 /2	250	208	1	20	10	26.5	35	INVERTED WALL	QMARK CU9000/FIFO	
FFH-1	5.1	1.5/1	125	115	1	12.5	4	19	16	COORD FRAME W/ CEILING TYPE	BERKO/QFF1500	
FFH-2	13.7	4 / 2	250	208	1	19.2	4	19	16	COORD FRAME W/ CEILING TYPE	BERKO/QFF1500	

NOTES:
1. REMOTE LOW VOLTAGE WALL MTD THERMOSTAT.
2. 24V CONTROLS
3. DEAD FRONT DISCONNECT.
4. NIGHT SETBACK RELAY.
5. RECESS TRIM KIT WHEREVER POSSIBLE.
6. KEY LOCK FOR FRONT COVER.
7. RECESS TRIM KIT

PACKAGED TERMINAL AIR CONDITIONING UNIT SCHEDULE

UNIT ID	SERVING	AIRFLOW (CFM)	OA (CFM)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	AUXILLARY ELECTRIC HEATER CAPACITY	ENCLOSURE DIMENSIONS			ELECTRICAL				DISCONNECT		MANUFACTURER/ MODEL NO.	REMARKS
							HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)	MOCP	MCA	VOLTS	PHASE	FURN. (BY)	INST. (BY)		
PTAC-A	SLEEPING UNITS	250	35	12.1	11.5	2.5 KW	16	42	13.75	15	13.9	208/230	1	26	26	FRIEDRICH FRESHAIRE PVH09K	
VTAC-A	CORRIDORS	310	60	9.3	8.3	2.5 KW	32	23	23	15	15.0	208/230	1	26	26	FRIEDRICH VHA09K	WALL PLENUM, OUTDOOR LOUVER

NOTES:
1. MODEL NUMBERS ARE FRIEDRICH.
2. MERV 8 OUTSIDE AIR FILTER.
3. ELECTRICAL SUB-BASE.
4. POWER CORD.
5. OA INTAKE KIT
6. SPARE FILTERS (ONE-SET EACH).
7. ENERGY MANGEMENT MOTION AND THERMAL OCCUPANCY DETECTION THERMOSTAT.
8. CONDENSATE DRAIN KIT.
9. ONLINE CONNECTION KIT, EMOCT WITH REMOTE FEE ACCESS EMRAF AND HUMIDITY CONTROL FEE EMRHCF
10. REMOTE THERMOSTAT ESCUTCHEON KIT.

EXHAUST FAN SCHEDULE

UNIT ID	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN WG)	FAN (RPM)	MOTOR		ELECTRICAL		DISCONNECT		STARTER			CURB HEIGHT (IN)	MANUFACTURER/ MODEL NO.	REMARKS
						HP	DRIVE TYPE	VOLTS	PH	FURN. BY	INST. BY	TYPE	FURN. BY	INST. BY			
REF-1	SLEEPING UNIT EA	DN BLAST	1400	0.6	1444	1/2	VG ECM	115	1	E	E	HOA	E	E	14	G-123-VG	
REF-2	SLEEPING UNIT EA	DN BLAST	1400	0.6	1444	1/2	VG ECM	115	1	E	E	HOA	E	E	14	G-123-VG	
REF-3	HOUSE KEEPING	DN BLAST	400	.25	1609	1/10	VG ECM	115	1	E	E	HOA	E	E	14	G-080-VG	
EF-1	FIRE PUMP ROOM	INLINE	150	0.25	1025	1/10	VG ECM	115	1	E	E	HOA	E	E		SQ-90-VG	
EF-2	PANTRY	INLINE	225	0.25	1436	1/4	BELT	115	1	E	E	HOA	E	E		BSQ-80-4	
EF-3	BACK OF HOUSE	INLINE	225	0.25	1680	1/15	VG ECM	115	1	E	E	HOA	E	E		SQ-70-VG	
EF-4	TOILET ROOM	INLINE	150	0.25	1449	1/15	VG ECM	115	1	E	E	HOA	E	E		SQ-70-VG	
EF-5	SLEEPING UNIT EA	INLINE	225	0.35	1409	1/10	VG ECM	115	1	E	E	HOA	E	E		SQ-80-VG	
EF-6	POOL	INLINE	700	0.25	860	1/4	BELT	115	1	E	E	HOA	E	E		BSQ-120-C	

NOTES:

1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS THRUWAY PLAZA OF ROCKLAND ASSOCIATES CLARKSTOWN (NANUET) ROCKLAND COUNTY, NY 10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOWNSEND · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES

Checked by :

Sheet Title : MECHANICAL SCHEDULES

Project No. : 2018.009

Sheet No. : M601

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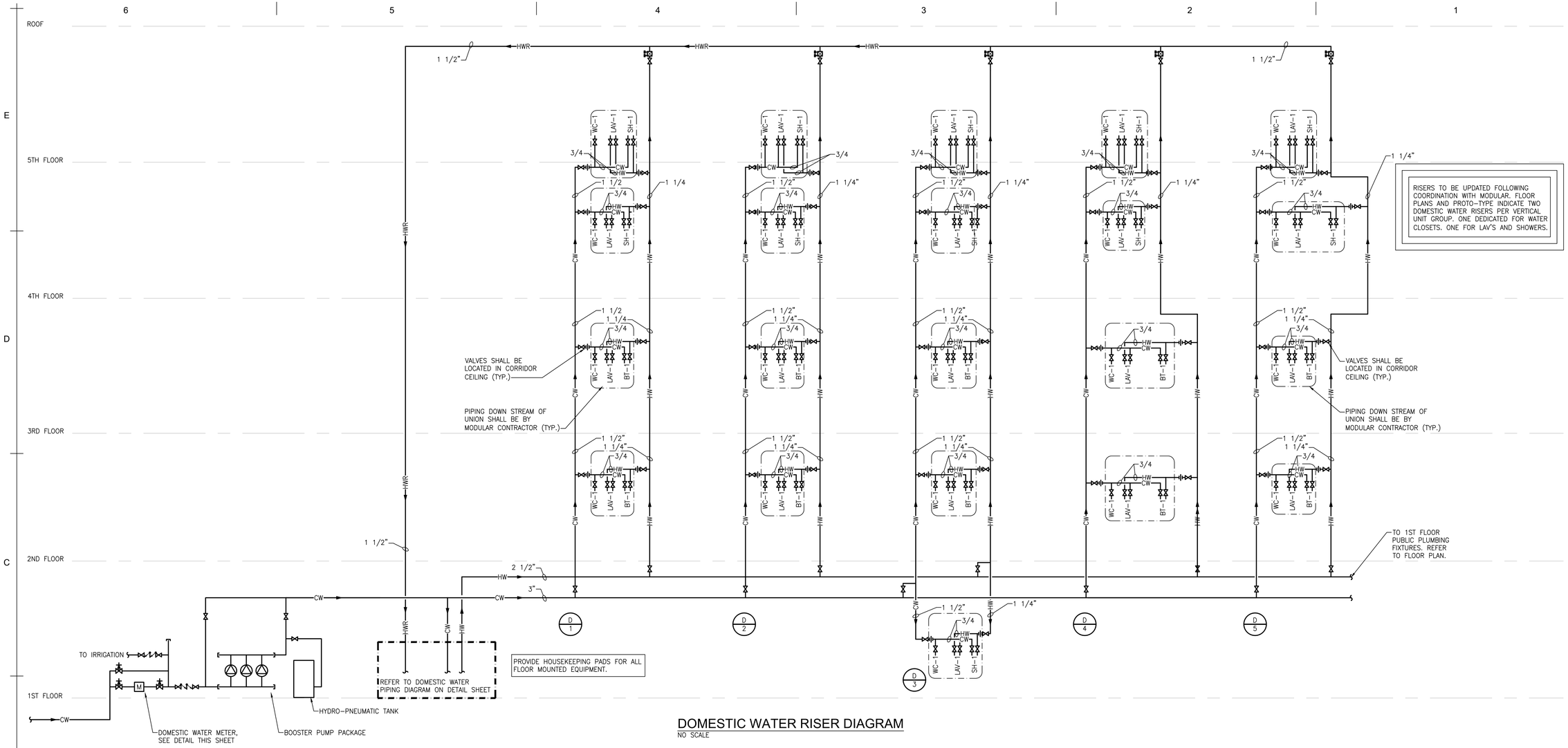

RISERS TO BE UPDATED FOLLOWING COORDINATION WITH MODULAR. FLOOR PLANS AND PROTO-TYPE INDICATE TWO DOMESTIC WATER RISERS PER VERTICAL UNIT GROUP. ONE DEDICATED FOR WATER CLOSETS. ONE FOR LAV'S AND SHOWERS.

DOMESTIC WATER RISER DIAGRAM

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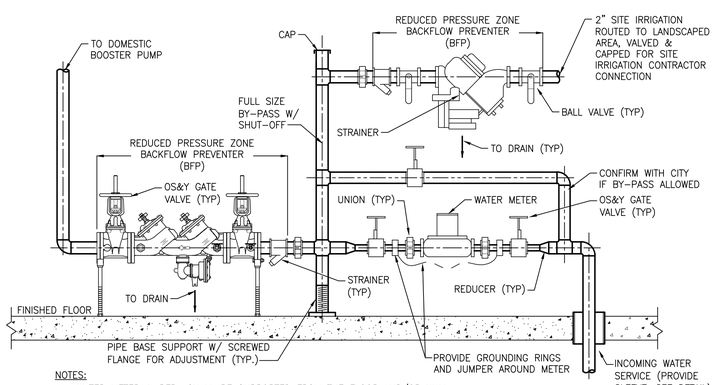

NOTES:

1. WATER METER & BFPs SHALL BE SUPPORTED FROM THE FLOOR AND/OR WALL.
2. RPZ ASSEMBLY (ASSE 1013) SERVING DOMESTIC WATER SYSTEM SHALL BE EQUAL TO WATTS LF909OSY WITH OS&Y GATE VALVES, TEST COCKS, LEAD FREE STRAINER AND AIR GAP FITTING.
3. RPZ ASSEMBLY (ASSE 1013) SERVING IRRIGATION AND WATER BOOSTER SYSTEM SHALL BE EQUAL TO WATTS LF909 WITH INLET AND OUTLET BALL VALVES, TEST COCKS, LEAD FREE STRAINER AND AIR GAP FITTING.

WATER METER/BACKFLOW PREVENTER DETAIL

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Holiday Inn Express & Suites

Project :

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THRUWAY PLAZA OF
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ROCKLAND COUNTY, NY
10954

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STATE OF NEW YORK · ENTRICKEN TOWNSEND · 088076 · LICENSED PROFESSIONAL ENGINEER
04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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MECHANICAL DIAGRAMS

Project No. :
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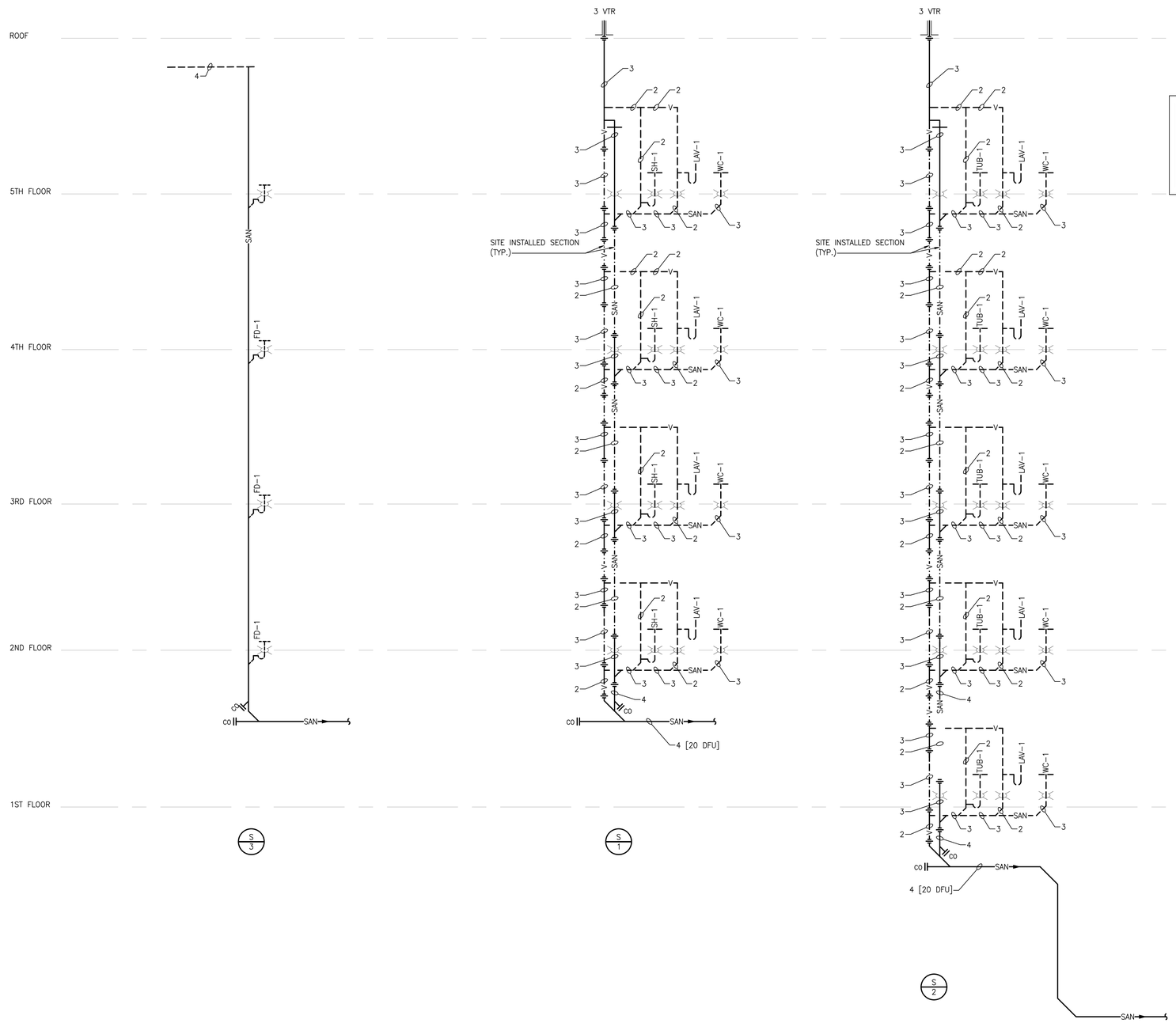

RISERS TO BE UPDATED FOLLOWING COORDINATION WITH MODULAR. FLOOR PLANS AND PROTO-TYPE INDICATE TWO SANITARY WATER RISERS PER VERTICAL UNIT GROUP. ONE DEDICATED FOR WATER CLOSETS AND LAV'S. ONE FOR SHOWERS.

SANITARY RISER DIAGRAM

NO SCALE

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Project :

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STATE OF NEW YORK · ANTHONY CARMINE CIRCELLI · 088076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
MECHANICAL DIAGRAMS

Project No. :
2018.009

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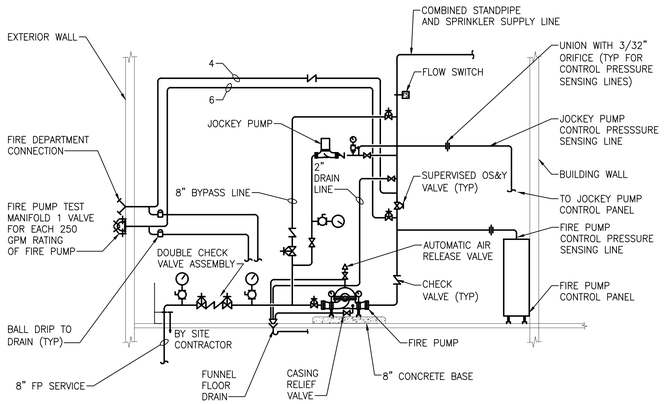

FIRE PUMP DETAIL

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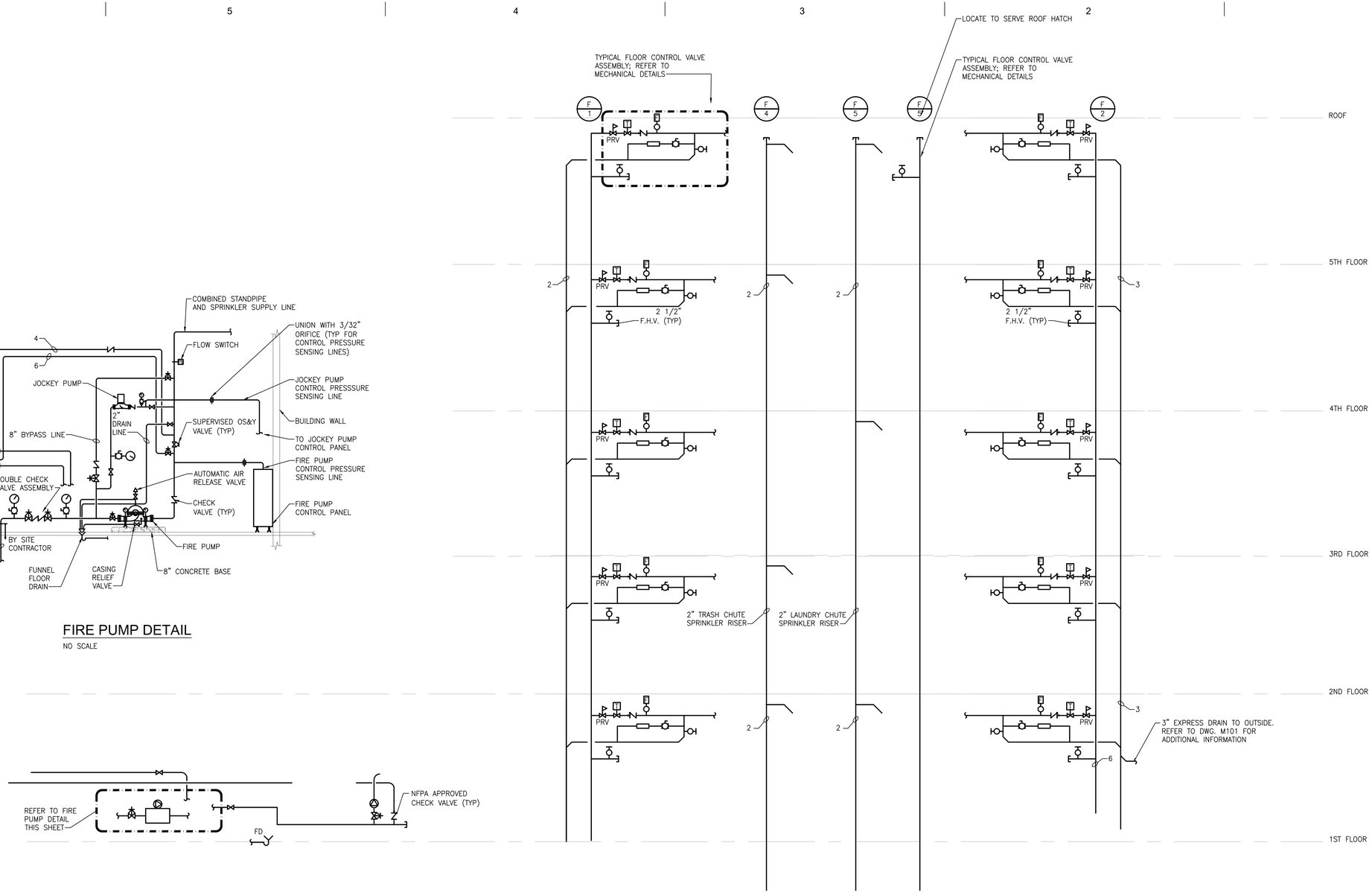

FIRE PROTECTION RISER DIAGRAM

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SES Project # 20 0262 02

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

BIDS/PERMITS 04.30.21

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
MECHANICAL DIAGRAMS

Project No. :
2018.009

Sheet No. :
M702

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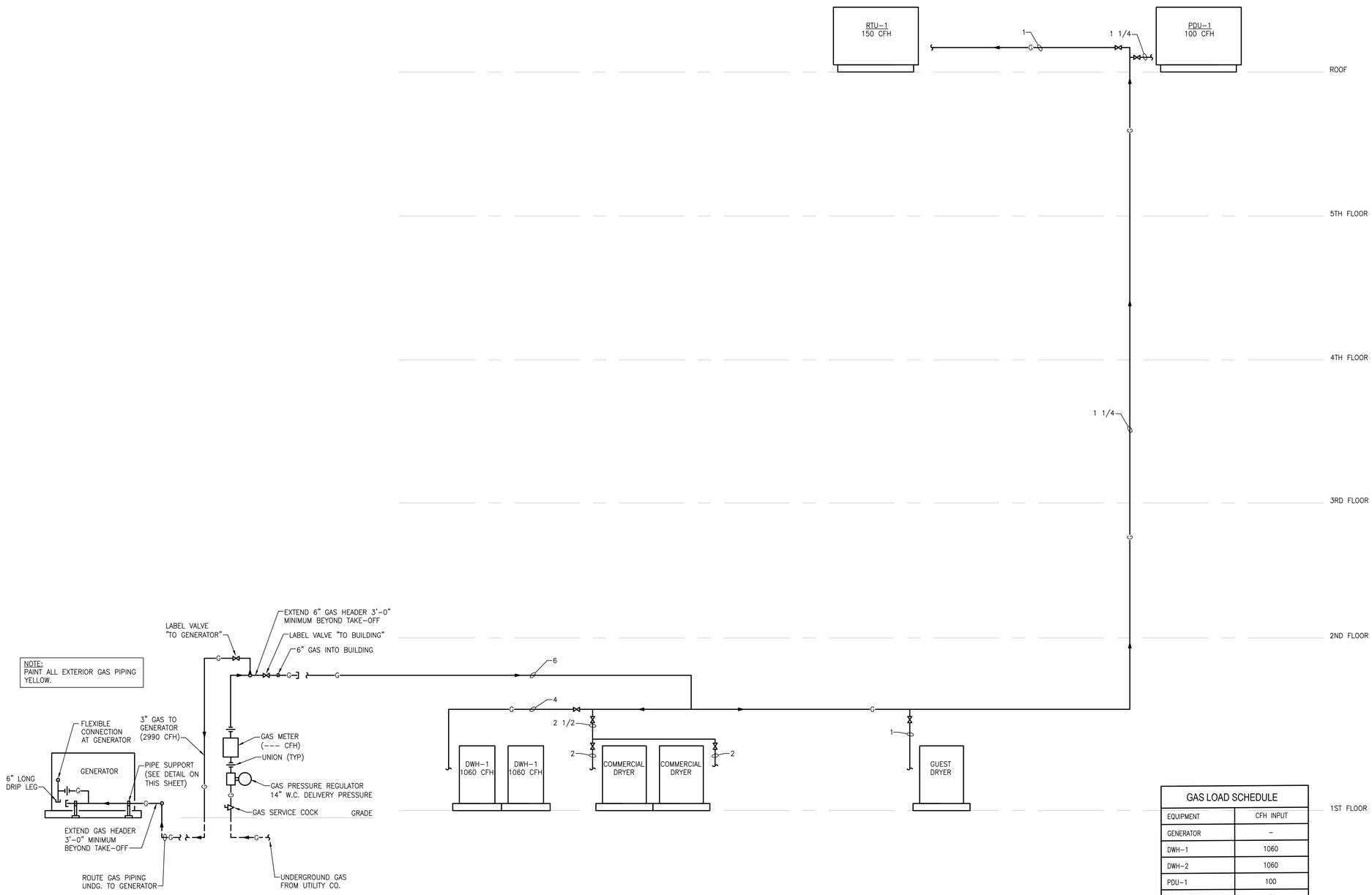

GAS LOAD SCHEDULE	
EQUIPMENT	CFH INPUT
GENERATOR	–
DWH-1	1060
DWH-2	1060
PDU-1	100
RTU-1	150
COMMERCIAL DRYERS	300
GUEST DRYER	100
–	–
TOTAL	–

11" W.C. DELIVERY PRESSURE. DISTRIBUTION GAS PIPING IS SIZED FOR A MAXIMUM PRESSURE DROP OF 0.5" W.C.

GAS PIPING SERVING BUILDING IS BASED ON A TOTAL DEVELOPED LENGTH OF 500 LF.

GAS PIPING SERVING GENERATOR IS BASED ON A TOTAL DEVELOPED LENGTH OF 100 LF.

NATURAL GAS RISER DIAGRAM

NO SCALE

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Holiday Inn Express & Suites

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THRUWAY PLAZA OF
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10954

Issued for :

BIDS/PERMITS 04.30.21

STATE OF NEW YORK
ENTRICKEN TOWNSEND
088076
LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
MECHANICAL DIAGRAMS

Project No. :
2018.009

Sheet No. :
M703

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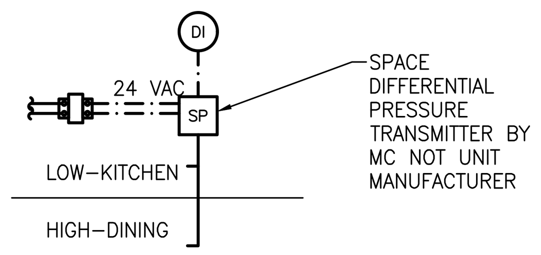
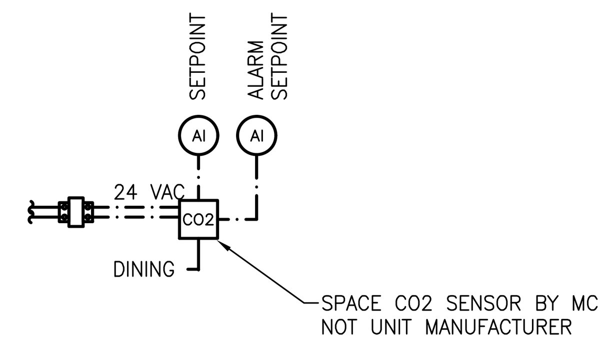
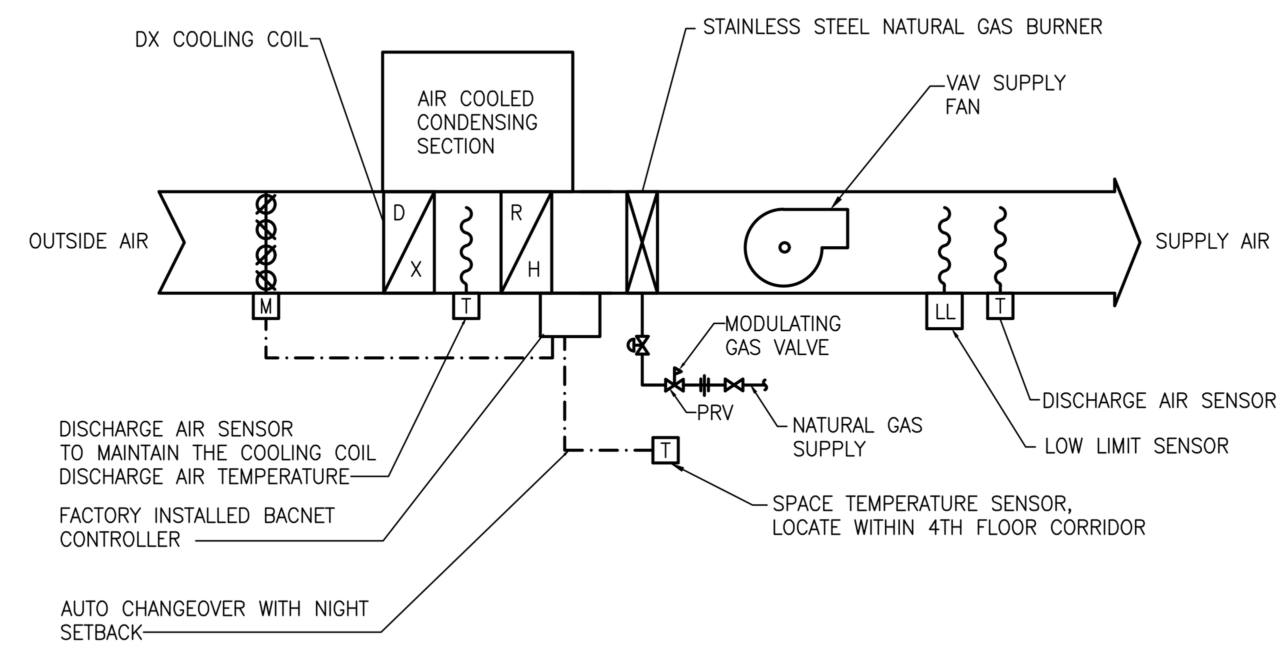


MAU–2 & MAU–3: LOCATED IN KITCHEN MAXIMUM FEASIBLE DISTANCE FROM EXTERIOR DOOR.



MAU–2 & MAU–3: LOCATED IN KITCHEN MAXIMUM FEASIBLE DISTANCE FROM EXTERIOR DOOR.



100% OA CAV GAS FIRED DX RTU WITH HOT GAS REHEAT

NO SCALE (RTU–1)

FAN CONTROL: THE SUPPLY FAN SHALL BE STARTED/STOPPED DURING OCCUPIED/UNOCCUPIED PERIODS BY THE BMS DIRECT DIGITAL CONTROLLER (DDC) ACCORDING TO THE MENU DRIVEN, WEEKLY SCHEDULING PROGRAM WHEN THE VFD IS IN THE AUTO POSITION. UPON A CALL FOR OPERATION FROM THE BMS, THE OUTSIDE AIR DAMPER SHALL MODULATE FULLY OPEN. WHEN OUTSIDE AIR DAMPER IS PROVEN OPEN, THE SUPPLY FAN SHALL BE ENERGIZED. OUTSIDE AIR DAMPER SHALL FAIL CLOSED. PROVIDE NOTIFICATION THROUGH THE BMS IN THE EVENT OF DAMPER FAILURE.

HEATING: THE DISCHARGE TEMPERATURE SENSOR THROUGH THE UNIT CONTROLLER SHALL ENERGIZE THE NATURAL GAS BURNER TO MAINTAIN A DISCHARGE TEMPERATURE SENSOR SETPOINT. THE DISCHARGE TEMPERATURE SETPOINT SHALL BE 70°F (ADJUSTABLE).

COOLING: THE COOLING DISCHARGE TEMPERATURE SENSOR THROUGH THE UNIT CONTROLLER SHALL SUBCOOL THE OUTSIDE AIR TO A SET TEMPERATURE OF 55°F (ADJUSTABLE) THROUGH THE D/X COOLING COIL. THIS IS TO REDUCE THE MOISTURE IN THE AIR WHEN THE SPACE TEMPERATURE SENSOR IS SATISFIED; OTHERWISE CONTROL TO THE SPACE TEMP AND %RH SETPOINTS. THE DISCHARGE TEMPERATURE SENSOR THROUGH THE UNIT CONTROLLER SHALL MODULATE THE REHEAT COIL TO MAINTAIN A SET DISCHARGE TEMPERATURE OF 70°F (ADJUSTABLE). THE SUPPLY AIR TEMPERATURE SHALL BE RESET UP ONE DEGREE (F) WHEN SPACE TEMPERATURE SENSOR IS BELOW THE COOLING SETPOINT DEADBAND FOR 5 MINUTES (OVERCOOLING IS OCCURRING). REPEAT THE RESET ROUTINE UNTIL SENSOR HAS ACHIEVED SETPOINT. IF SPACE IS BEING UNDERCOOLED, SUPPLY AIR TEMPERATURE SHALL BE RESET DOWN ONE DEGREE (F) WHEN SPACE SENSOR IS ABOVE THE COOLING SETPOINT DEADBAND FOR FIVE MINUTES (UNDERCOOLING IS OCCURRING). IF SPACE UNDERCOOLING CONTINUES TO OCCUR, RESET THE SUPPLY AIR TEMPERATURE DOWN ONE DEGREE (F) UNTIL THE SPACE SETPOINT IS SATISFIED. THE SPACE TEMPERATURE SENSOR SETPOINT SHALL BE 70°F (ADJUSTABLE).

SAFETY DEVICES: THE LOW LIMIT THERMOSTAT WILL PREVENT THE FANS FROM OPERATING WHEN THE DISCHARGE AIR FALLS BELOW 45°F (ADJUSTABLE). ONCE TRIPPED, THIS DEVICE MUST BE MANUALLY RESET BEFORE THE FANS WILL RESUME OPERATION.

SYSTEM SHALL FUNCTION AS STAND–ALONE SYSTEM AND WHEN THE FIRE ALARM SYSTEM IS ACTIVATED SUPPLY FAN SHALL STOP. SYSTEM SHALL AUTOMATICALLY RESUME SCHEDULED OPERATION FOLLOWING RESET OF THE FIRE ALARM CONTROL PANEL TO NORMAL. MOTORIZED OUTSIDE AIR DAMPER SHALL FAIL SHUT.

DEMAND CONTROLLED VENTILATION (MAU–2 & MAU–3): DURING OCCUPIED MODE, UNLESS OVERRIDDEN BY PRESSURE OVERRIDE ROUTINE (BY TCC), SUPPLY AIR FAN SHALL MODULATE IN RESPONSE TO SPACE CO2 SENSOR CONCENTRATIONS. THE ALLOWABLE CO2 CONCENTRATION FOR ANY SENSOR SHALL BE 1000 PPM (ADJ). THE MAXIMUM CO2 CONCENTRATION SHALL BE 1500 PPM (ADJ). SUPPLY AIR FAN AIRFLOW SHALL RAMP LINEARLY FROM DCV MINIMUM TO MAXIMUM. AFTER MEASURED CONCENTRATION HAS DROPPED BELOW THE ALLOWABLE CONCENTRATION FOR 15 MINUTES (ADJ), SUPPLY AIR FAN SHALL MODULATE TO MAINTAIN MINIMUM OA AIRFLOW.

PRESSURE OVERRIDE ROUTINE (MAU–2 & MAU–3)
THE TEMPERATURE CONTROLS CONTRACTOR SHALL COORDINATE WITH UNIT CONTROLLER MANUFACTURER TO PROVIDE ADDITIONAL TEMPERATURE CONTROLS TO OVERRIDE DCV AND MODULATE THE SUPPLY FAN TO MAINTAIN MINIMUM POSITIVE (+) 0.05" W.G. PRESSURE AS MEASURED FROM THE SPACE DIFFERENTIAL PRESSURE TRANSMITTER ACROSS DINING AND KITCHEN. SUPPLY AIR FAN AIRFLOW SHALL RAMP LINEARLY.

TYPICAL SLEEPING UNIT WITH PTAC
PROVIDE CENTRAL DESK CONTROL READY COMPATIBLE, OWNER APPROVED, HARD WIRED THERMOSTAT WITH OCCUPANCY SENSOR FOR VARIABLE SPEED PTAC HEAT PUMP WITH AUX ELECTRIC HEAT.

ROOM FREEZE PROTECTION: HEAT INITIATED IF TEMPERATURE FALLS BELOW 40°F IN UNOCCUPIED ROOM.

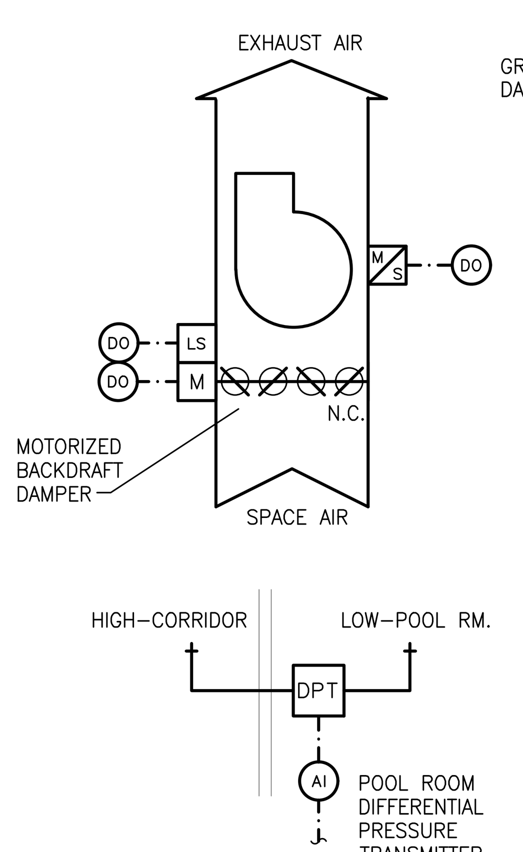
SEPARATE HEATING AND COOLING SET POINTS SHALL BE ADJUSTABLE THROUGH THE FRONT END. SLEEPING ROOM THERMOSTATS SHALL HAVE +/– 4°F ADJUSTABILITY.

WHILE NOT RENTED OR CONTINUOUSLY UNOCCUPIED FOR 16 HOURS AS DETERMINED BY THERMOSTAT OCCUPANCY SENSOR, SETBACK TEMPERATURE SETPOINTS TO 80 °F COOLING AND 60°F HEATING.

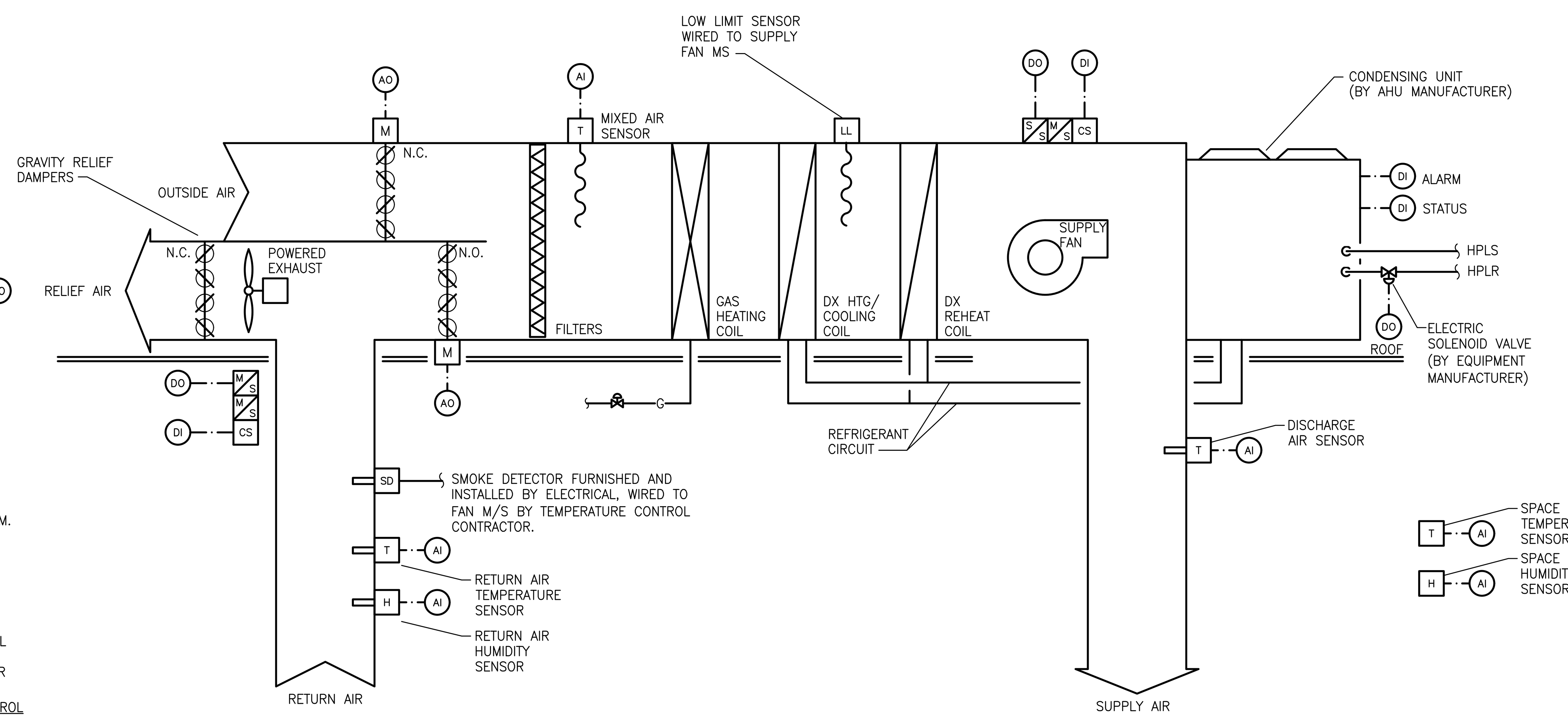
60 MINUTES PRIOR TO SCHEDULED OCCUPANCY RESET SLEEPING UNIT HEATING AND COOLING SETPOINTS TO OCCUPIED SETPOINTS.

PTAC CONTROLS

NO SCALE



POOL ROOM NEGATIVE PRESSURE CONTROL
(FOR POOL ROOM EXHAUST FAN EF–3)



POOL DEHUMIDIFICATION UNIT CONTROL DIAGRAM

NO SCALE (PDU–1

SEQUENCE OF OPERATION (REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION)

THE SYSTEM SHALL BE DESIGNED AND SIZED TO MAINTAIN THE SPECIFIED SPACE CONDITIONS

1. SYSTEM STARTUP
   A. POWER IS TURNED ON OR THE SYSTEM IS RESTARTED
   B. AFTER A SHORT INITIAL DELAY TO ALLOW THE SENSORS TO STABILIZE, THE BLOWER STARTS AND OPERATES CONTINUOUSLY
   C. BASED ON SENSOR FEEDBACK, THE SYSTEM SHALL BEGIN OR RESUME OPERATION BASED ON THE SEQUENCE BELOW
2. AIRSIDE CONFIGURATION
   A. THE SYSTEM CONTINUOUSLY DELIVERS THE SPECIFIED SUPPLY AIR VOLUME TO THE NATATORIUM
   B. THE MINIMUM EXHAUST AIR VOLUME IS SET TO MEET THE ENGINEER'S SCHEDULE.
   C. THE MINIMUM OUTDOOR AIR VOLUME IS SET TO MEET THE ENGINEER'S SCHEDULE.
3. DEHUMIDIFICATION MODE
   A. THE RETURN AIR RELATIVE HUMIDITY IS ABOVE THE HUMIDITY SETPOINT
   B. RETURN AIR DEWPOINT IS ABOVE DEWPOINT SETPOINT.
   C. THE COMPRESSOR ENTERS THE COMPRESSOR START SEQUENCE
4. AIR CONDITIONING MODE
   A. THE RETURN AIR TEMPERATURE IS ABOVE THE ROOM TEMPERATURE SETPOINT
   B. THE COMPRESSOR STARTS, IF NOT ALREADY OPERATING IN DEHUMIDIFICATION MODE
   C. EXCESS COMPRESSOR HOT GAS IS DIVERTED TO THE OUTDOOR AIR COOLED CONDENSER FOR UP TO 100% HEAT REJECTION AT SUMMER DESIGN AMBIENT CONDITIONS
5. SPACE HEATING MODE
   A. THE RETURN AIR TEMPERATURE IS BELOW THE ROOM TEMPERATURE SETPOINT
   B. THE MICROPROCESSOR SPACE HEATING OUTPUT SIGNAL (0–10 VOLTS) IS SENT TO THE HEATING COIL CONTROLLER. THE SIGNAL OUTPUT WILL REGULATE BASED ON THE RETURN AIR TEMPERATURE
6. ~~POOL WATER HEATING MODE~~
   A. ~~THE RETURN POOL WATER TEMPERATURE IS BELOW THE POOL WATER SETPOINT~~
   B. ~~IF THE COMPRESSOR IS ALREADY OPERATING DUE TO A DEHUMIDIFICATION OR AIR CONDITIONING DEMAND, THE CONTROL VALVES WILL DIVERT THE COMPRESSOR HOT GAS THROUGH THE COAXIAL HEAT EXCHANGER TO HEAT THE POOL WATER, WITH THE REMAINDER REJECTED AT THE AIR REHEAT COIL OR THE AC HEAT EXCHANGER~~
   C. ~~IF THERE IS NO PRE–EXISTING DEMAND FOR THE COMPRESSOR TO OPERATE, THE MICROPROCESSOR SENDS A SIGNAL TO THE AUXILIARY POOL WATER HEATER (REMOTE BY OTHERS) TO OPERATE. THE COMPRESSOR WILL NOT OPERATE SOLELY FOR A POOL WATER HEATING DEMAND UNLESS SPECIFICALLY CONFIGURED TO DO SO AT THE CONTROLLER~~
7. FREEZE PROTECTION
   A. THE SUPPLY AIR TEMPERATURE FALLS BELOW THE FREEZESTAT SETPOINT OR THE OPTIONAL FREEZESTAT SENSOR INDICATES A FREEZESTAT CONDITION
   B. EXHAUST FAN(S) ARE STOPPED AND OUTDOOR AIR DAMPER(S) ARE FULLY CLOSED
   C. WHEN THE FREEZESTAT ALARM IS TRIPPED, IT MUST BE MANUALLY CLEARED BY THE OPERATOR
8. EXHAUST FAN EF–3 SHALL BE INTERLOCKED WITH THE PDU–1 OCCUPANCY SCHEDULE. EF–3' ASSOCIATED MOTORIZED DAMPER SHALL PROVE OPEN PRIOR TO ENERGIZING FAN. EF–3 SHALL MODULATE TO MAINTAIN NEGATIVE 0.05" W.G. IN POOL ROOM (ADJ. VIA VARI–GREEN CONTROLLER IN PUMP ROOM; LOCATION TO BE COODINATED).

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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS THRUWAY PLAZA OF ROCKLAND ASSOCIATES CLARKSTOWN (NANUET) ROCKLAND COUNTY, NY 10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · SCOTT TRICKEN TOWNSEND · LICENSED PROFESSIONAL ENGINEER · 088076
04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES
Checked by :

Sheet Title : TEMPERATURE CONTROLS

Project No. : 2018.009

Sheet No. : M800

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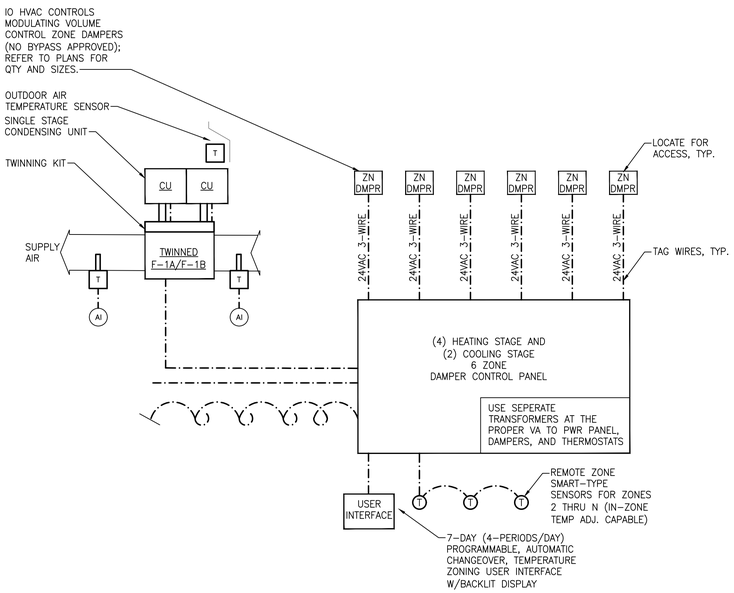
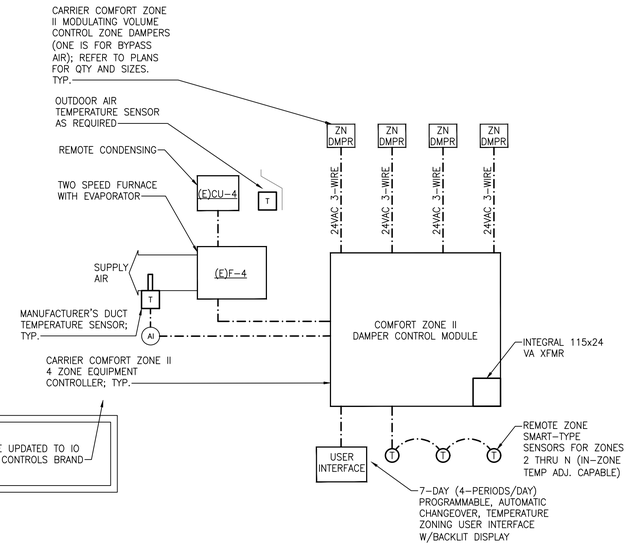


ZONING SYSTEM CONTROLS DIAGRAM (F-1A & F-1B)

NO SCALE

REQUIRES 6 ZONES NO BYPASS. DUMP TO CORRIDOR



ZONING SYSTEM CONTROLS DIAGRAM

NO SCALE

REQUIRES 4 ZONES NO BYPASS. DUMP TO CORRIDOR

SEQUENCE OF OPERATIONS
GENERAL:
FORCED AIR ADJUSTABLE ZONE CONTROL SYSTEMS WITH 6 SEPARATE ZONES. THE SYSTEM CAN BE THE PANEL CAN BE USED WITH MULTI-STAGE UP TO 4 STAGES OF HEATING AND 2 STAGES OF COOLING.

INTEGRATED ESP STATIC PRESSURE CONTROL WITH NO BY-PASS LOGIC DESIGNED TO ELIMINATE THE NEED FOR A CONVENTIONAL

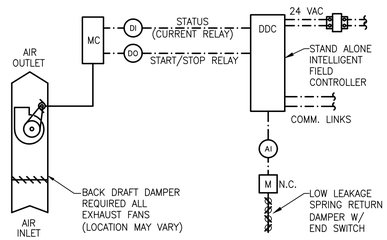
GRAPHICS DISPLAY MODULE (GDM) WITH REAL TIME MONITORING OF THE FOLLOWING:
DISCHARGE AIR
RETURN AIR
OUTSIDE AIR TEMPERATURE.

HIGH AND LOW LIMITS
HIGH AND LOW OUTDOOR
BALANCE POINTS
TIMED UPSTAGING
SELECTION OF DESIGNATED ESP ZONES.

SEQUENCE OF OPERATION
EACH ZONE IS CONTROLLED BY ITS OWN SPACE THERMOSTAT AND MOTORIZED ZONE DAMPER. IF ANY ZONE THERMOSTAT CALLS FOR HEATING OR COOLING, THLL ZONES NOT CALLING WILL HAVE THEIR DAMPERS POWERED CLOSED AND THE ZONES CALLING WILL HAVE THEIR DAMPERS POWERED OPEN. THE HEATING OR COOLING EQUIPMENT WILL BE BROUGHT ON AT THE SAME TIME. WHEN ALL ZONES ARE SATISFED, THE HEATING OR COOLING EQUIPMENT TURNS OFF. ZONE DAMPERS THEN REPOSITION BASED ON VENTILATION MODE SELECTION. THE SYSTEM CAN BE SET UP TO OPERATE IN EITHER OR MODE OF COOLING PRIORITY MAJORITY WINS OPERATION.

COOLING PRIORITY:
WHEN ZONES CALL FOR HEATING AND COOLING AT THE SAME TIME, COOLING WILL RECEIVE PRIORITY AND THE SYSTEM WILL OPERATE IN THE COOLING MODE UNTIL ALL COOLING CALLS ARE SATIS ED AND THEN AUTOMATICALLY CHANGE OVER TO SATISFY HEATING CALLS.

MAJORITY WINS:
IF MORE ZONES CALL FOR HEATING THAN COOLING, THE SYSTEM WILL BE IN THE HEATING MODE. IF MORE ZONES ALL FOR COOLING THAN HEATING, THE SYSTEM WILL BE IN THE COOLING MODE. IF THE NUMBER OF HEATING AND COOLING CALLS ARE EQUAL, COOLING WINS.



SUPPLY/EXHAUST FAN

ASSOCIATED CONTROL DAMPER WHERE SHOWN

SEQUENCE OF OPERATION

GENERAL:
A. PROVIDE NOTIFICATION THROUGH THE CONTROL SYSTEM UPON EXHAUST FAN FAILURE.
B. DAMPERS SHALL PROVE OPEN PRIOR TO ENERGIZING FAN.
C. EXHAUST FANS WITH HAND/OFF/AUTO SWITCHES IN THE "AUTO" POSITION SHALL BE AUTOMATICALLY STARTED AND STOPPED WITH THE DDC SYSTEM OCCUPANCY SCHEDULE OR AS OTHERWISE DESCRIBED.

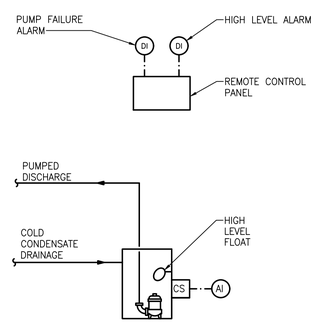
THE FOLLOWING FANS SHALL BE CONTROLLED BY A SPACE MOUNTED WALL SWITCH PROVIDED BY DIVISION 26:
A. EF-1

THE FOLLOWING FANS SHALL RUN CONTINUOUSLY AND BE SERVED BY A DEDICATED CIRCUIT PROVIDED BY DIVISION 26:
A. EF-2

FOR THE FOLLOWING FANS SHALL WHEN FIRE ALARM SYSTEM IS ACTIVATED, FAN SHALL STOP:

FAN CONTROL DIAGRAM

NO SCALE



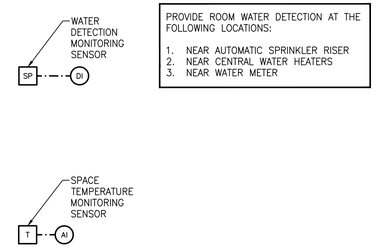
SUMP PUMP MONITORING SEQUENCE OF OPERATIONS:

1. THE DDC SYSTEM SHALL MONITOR THE FOLLOWING POINTS:

   A. HIGH LEVEL ALARM
   B. PUMP STATUS

SUMP PUMP MONITORING

NO SCALE



WATER DETECTION SYSTEM SEQUENCE OF OPERATIONS:
1. TEMPERATURE CONTROL CONTRACTOR SHALL LOCATE FLOOR MOUNTED WATER DETECTION DEVICES AT LOCATIONS INDICATED. WATER DETECTION DEVICES SHALL BE CONNECTED TO THE DISTRICT BMS.

2. UPON DETECTION OF WATER, THE DETECTOR SHALL ISSUE AN ALARM TO THE DISTRICT BMS.

TYPICAL ROOM MONITORING (TEMP, HUMIDITY, AND/OR CO2) SEQUENCE OF OPERATIONS:
1. ROOM SENSOR SHALL BE ABLE TO BE MONITORED/TRENDED BY BUILDING DDC SYSTEM.

2. AN ALARM SHALL BE SENT TO THE DDC SYSTEM IF THE ROOM TEMPERATURE RISES ABOVE (ADJ.)°F OR BELOW (ADJ)°F. EACH APPLICABLE SPACE (SEE ABOVE) REQUIRES SEPARATE UPPER, LOWER AND ALARM CONDITIONS (SETPOINTS).

ROOM MONITORING AND WATER DETECTION

NO SCALE

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STATE OF NEW YORK · PATRICKEN TOWSLEY · 098078 · LICENSED PROFESSIONAL ENGINEER
04/30/2021

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LOCATION: 19180
INN CODE: NYCNT
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Sheet Title : TEMPERATURE CONTROLS

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MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT / AIR ADMITTANCE VALVE
AD	ACCESS DOOR
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
ASR	AUTOMATIC SPRINKLER RISER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	COOLING
CO	CLEAN OUT
CONT	CONTINUATION OR CONTINUED
CONV	CONVECTOR
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DEG	DEGREES
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EA/EXH	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELECT	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWC	ELECTRIC WATER COOLER
°F	DEGREES FAHRENHEIT
FA	FACE AREA (COIL) / FREE AREA (LOUVER)
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FFD	FUNNEL FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FS	FLOOR SINK
FT	FEET
FURN	FURNISHED
FV	FACE VELOCITY
FVC	FIRE VALVE CABINET
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HO	HUB OUTLET
HP	HORSEPOWER

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
HR	HOUR
HTG	HEATING
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INST	INSTALLED
INV	INVERT
ISP	INTERNAL STATIC PRESSURE
IW	INDIRECT WASTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)
MOP	MAXIMUM OVER-CURRENT PROTECTION
N.C.	NOISE CRITERIA
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOM	NOMINAL
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER / CENTER TO CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
ORS	OVERFLOW ROOF SUMP
OS&Y	OUTSIDE SCREW AND YOKE
PD	PRESSURE DROP (FEET OF WATER)
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE
PSIG	POUNDS PER SQUARE INCH – GAUGE
PT	PRESSURE / TEMPERATURE PORT
RA	RETURN AIR
RH	RELATIVE HUMIDITY
REQD	REQUIRED
REL.A	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	ROOF SUMP
SA	SUPPLY AIR
SH	SHOWER
SP	STATIC PRESSURE
SqFt / SF	SQUARE FOOT/SQUARE FEET
SS	SERVICE SINK
TC	TEMPERATURE CONTROL
T & P	TEMPERATURE AND PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE

MECHANICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
UR	URINAL
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VTR	VENT THRU ROOF
W	WASTE
W&V	WASTE AND VENT
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WG	WATER GAUGE
WH	WALL HYDRANT

MECHANICAL PIPING SYMBOLS

ABBREV.	DESCRIPTION
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	DIRECTION OF FLOW
	UNION
	STRAINER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTION
	PIPE ANCHOR
	PIPE GUIDE
	PIPE CAP OR PLUG
	ISOLATION VALVE
	CIRCULATING PUMP
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	BACKWATER VALVE
	ANGLE VALVE
	CHECK VALVE (SWING)
	CHECK VALVE (SPRING)
	PLUG VALVE
	NEEDLE VALVE
	OUTSIDE SCREW AND YOKE VALVE (OS&Y)
	PRESSURE REGULATING VALVE
	SOLENOID VALVE
	CONTROL VALVE (2-WAY / 3-WAY)
	CENTRIFUGAL FAN
	AUTOMATIC GAS SHUT-OFF VALVE
	TRAP (PLAN VIEW)
	FLOOR DRAIN / FUNNEL FLOOR DRAIN (PLAN VIEW)
	FLOOR DRAIN / FUNNEL FLOOR DRAIN (ELEVATION)
	ROOF SUMP
CO	CLEAN OUT (IN FLOOR)
CO	CLEAN OUT (IN LINE)
WCO	CLEAN OUT (WALL)
BFP	BACKFLOW PREVENTER
M	WATER METER ASSEMBLY
	HOSE BIBB, WALL HYDRANT
	DIRECTION OF PIPE PITCH
	SPRINKLER HEAD (UPRIGHT)
	SPRINKLER HEAD (SIDEWALL)
FS	FLOW SWITCH
	SIAMESE CONNECTION (YARD)
	SIAMESE CONNECTION (WALL MOUNTED)
	FIRE HYDRANT
	FLOW MEASURING DEVICE
	BALANCING VALVE
	COMBINATION FLOW MEASURING AND BALANCING DEVICE
AAV	AUTOMATIC AIR VALVE
MAV	MANUAL AIR VALVE

MECHANICAL SYMBOLS

ABBREV.	DESCRIPTION
	RECTANGULAR TAKE-OFF (SINGLE LINE)
	RECTANGULAR TAKE-OFF (DOUBLE LINE)
	ROUND TAKE-OFF (SINGLE LINE)
	ROUND TAKE-OFF (DOUBLE LINE)
	SPIN-IN FITTING (WITH VOLUME DAMPER)
	ELBOW (WITH TURNING VANES)
	RADIUS RECTANGULAR ELBOW
	RADIUS ROUND ELBOW
	RECTANGULAR ELBOW UP
	ROUND ELBOW UP
	RECTANGULAR ELBOW DOWN
	ROUND ELBOW DOWN
	CONCENTRIC TRANSITION (DOUBLE LINE)
	CONCENTRIC TRANSITION (SINGLE LINE)
	ECCENTRIC TRANSITION (DOUBLE LINE)
	ECCENTRIC TRANSITION (SINGLE LINE)
R	INCLINED RISE IN DIRECTION OF AIR FLOW (DOUBLE LINE)
R	INCLINED RISE IN DIRECTION OF AIR FLOW (SINGLE LINE)
D	INCLINED DROP IN DIRECTION OF AIR FLOW (DOUBLE LINE)
D	INCLINED DROP IN DIRECTION OF AIR FLOW (SINGLE LINE)
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER
	SUPPLY DIFFUSER
	LINEAR SLOT DIFFUSER
	RETURN OR EXHAUST GRILLE
	TRANSFER GRILLE
	CROSS SECTION OF SUPPLY AIR DUCT
	CROSS SECTION OF EXHAUST OR RETURN AIR DUCT
	EXISTING / NEW — FIRE DAMPER (HORIZONTAL)
	EXISTING / NEW — FIRE DAMPER (VERTICAL)
	EXISTING / NEW — SMOKE DAMPER
	EXISTING / NEW — COMBINATION FIRE/SMOKE DAMPER (VERTICAL)
	EXISTING / NEW — COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)
	VOLUME DAMPER (MANUALLY ADJUSTABLE)
M	MOTORIZED DAMPER
SD	SMOKE DETECTOR
CO2	CO2 SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR
H	HUMIDISTAT OR HUMIDITY SENSOR
	RETURN OR EXHAUST / SUPPLY AIR FLOW

PIPING LEGEND

ABBREV.	DESCRIPTION
CA	COMPRESSED AIR PIPING
CD	CONDENSATE DRAIN PIPING
DT	DRAIN TILE
F	FIRE PROTECTION PIPING
FOR	FUEL OIL RETURN PIPING
FOS	FUEL OIL SUPPLY PIPING
G	NATURAL GAS PIPING
BCW	BOOSTED-DOMESTIC COLD WATER PIPING
BHW	BOOSTED-DOMESTIC HOT WATER PIPING
CW	DOMESTIC COLD WATER PIPING
NPCW	NON POTABLE COLD WATER PIPING
TW	TEMPERED WATER PIPING
HW	DOMESTIC HOT WATER PIPING
HW(140°F)	DOMESTIC 140°F HOT WATER PIPING
HWR	DOMESTIC HOT WATER RETURN PIPING
SAN	SANITARY WASTE PIPING
PSAN	PUMPED SANITARY PIPING
V	VENT PIPING
ST	STORM SEWER PIPING
PST	PUMPED STORM PIPING
RC	RAIN CONDUCTOR PIPING
ORC	OVERFLOW RAIN CONDUCTOR PIPING
RL	REFRIGERANT LIQUID PIPING
RS	REFRIGERANT SUCTION PIPING
HGB	HOT GAS BY-PASS PIPING

APPLICABLE CODES AND REGULATIONS

YEAR	CODE
2020	BUILDING CODE OF NEW YORK STATE
2020	ENERGY CONSERVATION CODE OF NYS
2020	PLUMBING CODE OF NYS
2020	MECHANICAL CODE OF NYS
2020	FIRE CODE OF NYS
2020	FUEL GAS CODE OF NYS
2017	NFPA 96
2016	NFPA 13, NFPA 14, NFPA 20
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN (DOJ)

WATER FLOW TEST DATA

DATE PERFORMED	REPORTED PRESSURES	
	STATIC	RESIDUAL
08-14-2019	36 PSI @ 840 GPM	33.7 PSI @500 GPM

DRAWING INDEX

SHT NO	Sheet Title
M000.M	MECHANICAL GENERAL INFORMATION
M110.M	FIRST FLOOR MECHANICAL PLAN
M120.M	SECOND FLOOR MECHANICAL PLAN
M130.M	THIRD FLOOR MECHANICAL PLAN
M140.M	FOURTH FLOOR MECHANICAL PLAN
M150.M	FIFTH FLOOR MECHANICAL PLAN
M400.M	ENLARGED MECHANICAL PLANS
M401.M	ENLARGED MECHANICAL PLANS

DRAWING NOTATION

SYMBOL	DESCRIPTION
1	NEW WORK KEY NOTE NO. 1
1	DEMOLITION KEY NOTE NO. 1
EF-1	EQUIPMENT TAG
S-1 10x10 100-2	AIR TERMINAL TAG: IE: DIFFUSER TYPE = S-1 NECK SIZE = 10x10 CFM = 100 (TYPICAL FOR 2) S = SUPPLY R = RETURN E = EXHAUST T = TRANSFER
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIPMENT
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	POINT OF NEW CONNECTION

SECTION NO. 4
4
M5.2
SHEET M5.2 ON WHICH SECTION DRAWN

SECTION NO. 6
6
M5.2
SECTION
SCALE: 1/4" = 1' - 0"
SHEET M5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR)

SYSTEM RISER DESIGNATION
X-#
RISER NUMBER

S: SANITARY
D: DOMESTIC WATER
H: HVAC PIPING
SP: STAIRWELL PRESSURIZATION
V: VENT
E: EXHAUST

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Holiday Inn Express & Suites

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ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOWNSEND · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Project No. :
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Sheet No. :
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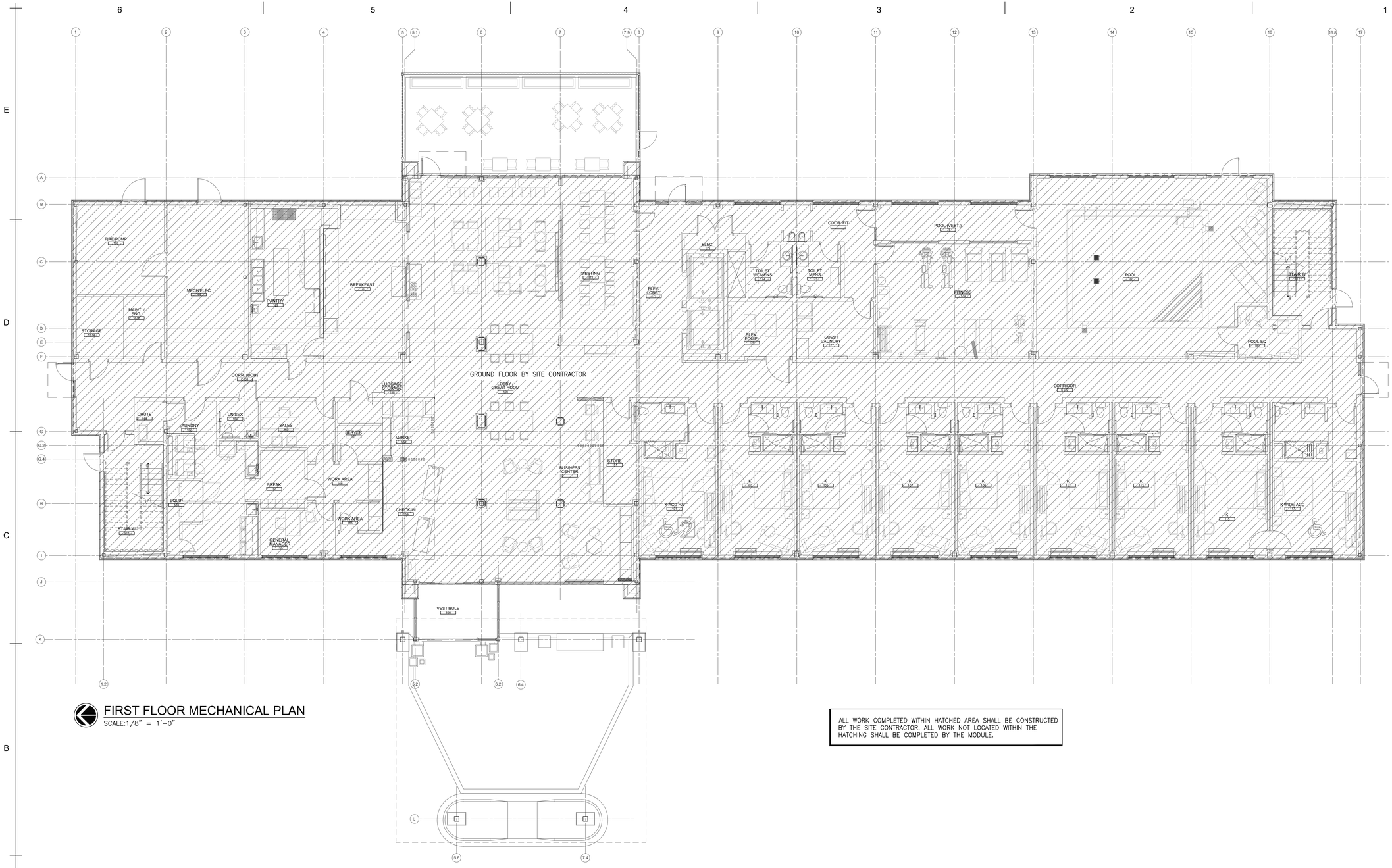

FIRST FLOOR MECHANICAL PLAN

SCALE:1/8" = 1'-0"

ALL WORK COMPLETED WITHIN HATCHED AREA SHALL BE CONSTRUCTED BY THE SITE CONTRACTOR. ALL WORK NOT LOCATED WITHIN THE HATCHING SHALL BE COMPLETED BY THE MODULE.

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FIRST FLOOR MECHANICAL PLAN

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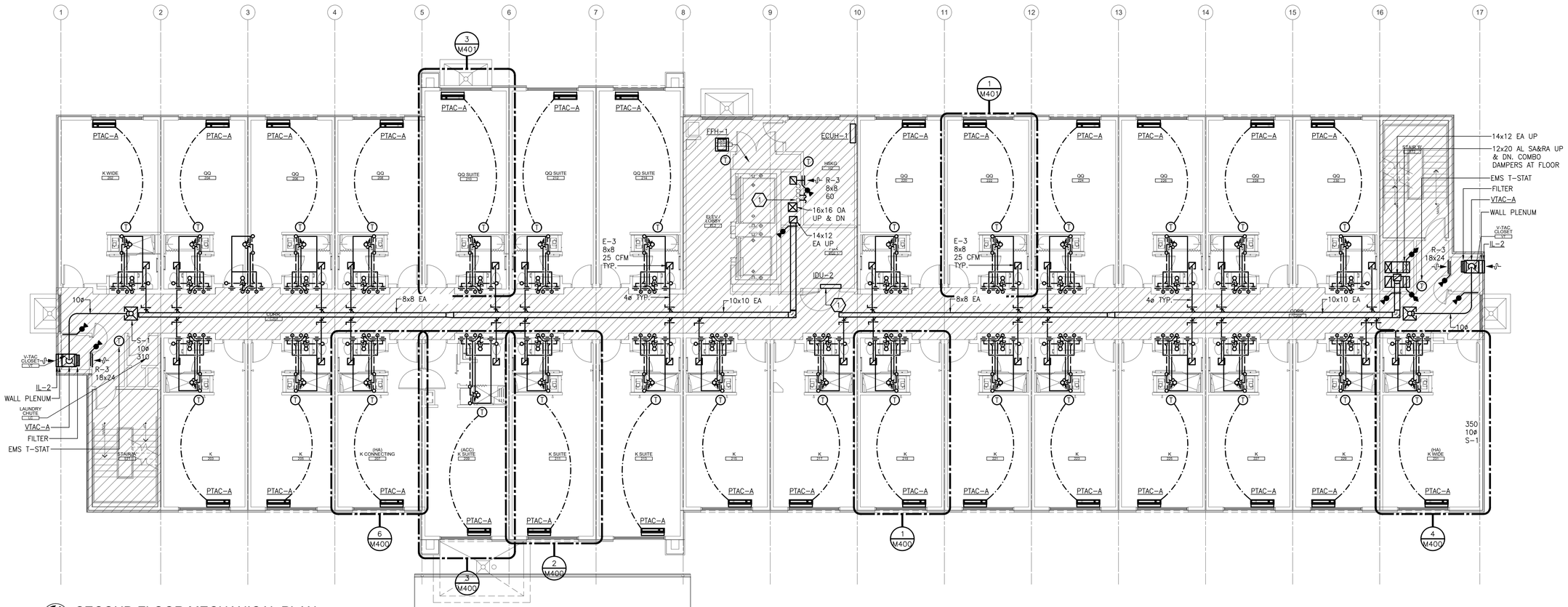

SECOND FLOOR MECHANICAL PLAN

SCALE:1/8" = 1'-0"

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HVAC GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE HVAC SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS, SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR STRUCTURAL CONDITIONS OR OTHER CONDITIONS.
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6. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH ARCHITECTURAL TRADES. SEAL ALL PIPING AND DUCT PENETRATIONS.
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8. BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
9. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS, VALVES, AND CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.
11. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.

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PATRICKEN TOWNSEND
084074
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INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
SECOND FLOOR
MECHANICAL PLAN

Project No. :
2018.009

Sheet No. :
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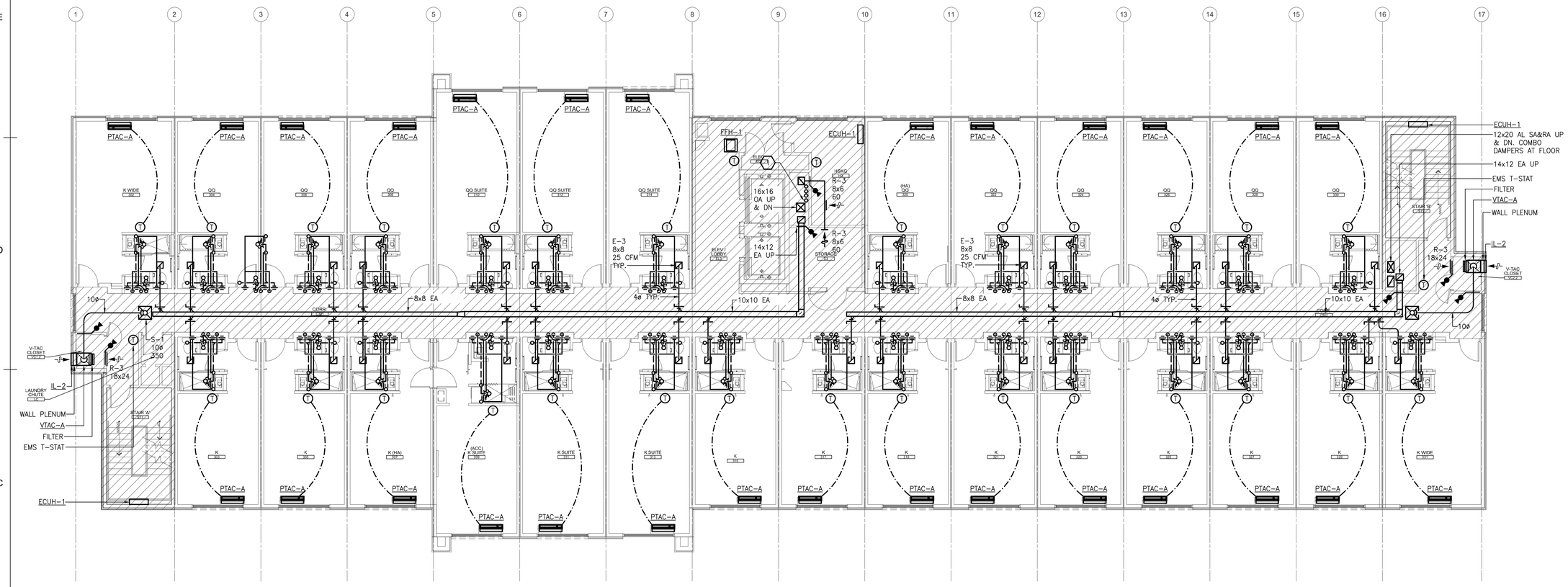

THIRD FLOOR MECHANICAL PLAN

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Sheet Title :
THIRD FLOOR
MECHANICAL PLAN

Project No. :
2018.009

Sheet No. :
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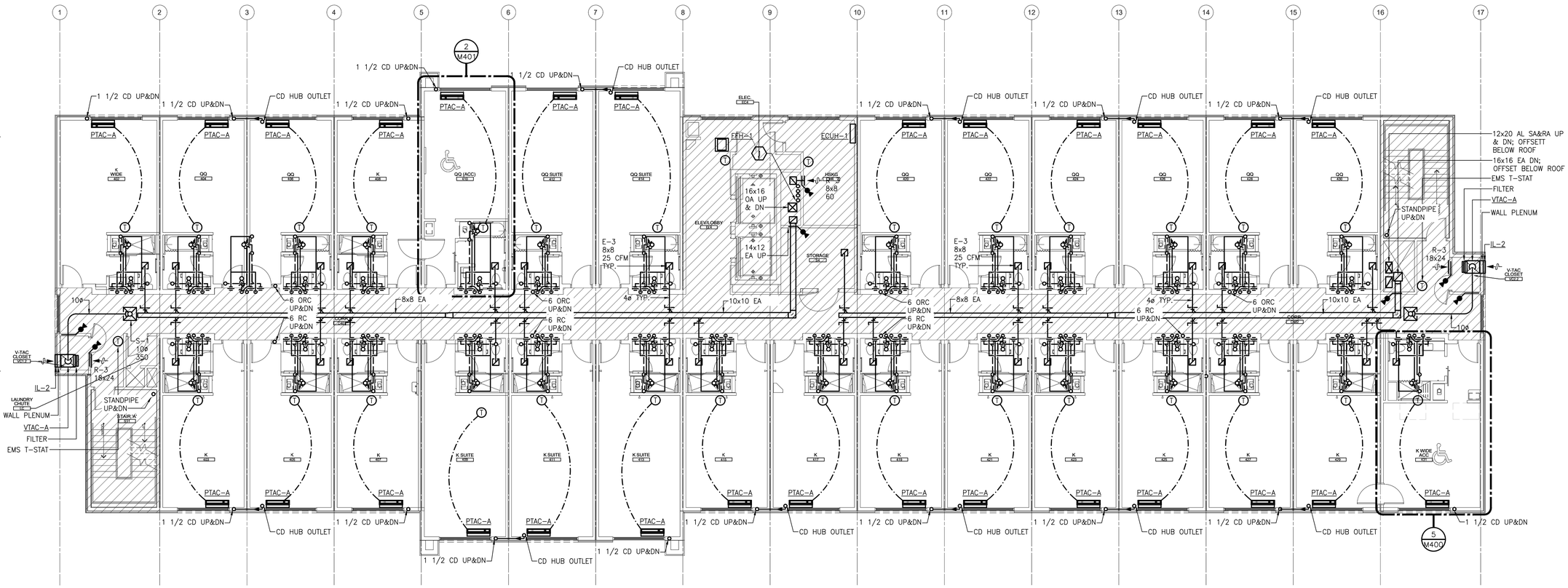

FOURTH FLOOR MECHANICAL PLAN

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3. DUCTWORK/PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE AND SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
5. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
6. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH ARCHITECTURAL TRADES. SEAL ALL PIPING AND DUCT PENETRATIONS.
7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
8. BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
9. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS, VALVES, AND CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.
11. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.

0 1/2" 1" 2"
ACCURATE WHEN PRINTED TO SCALE

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www.sesnet.com
SES Project # 20 0262 02

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

BIDS/PERMITS	04.30.21

STATE OF NEW YORK · PATRICK TOWNSEND · 088076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
FOURTH FLOOR MECHANICAL PLAN

Project No. :
2018.009

Sheet No. :
M140.M

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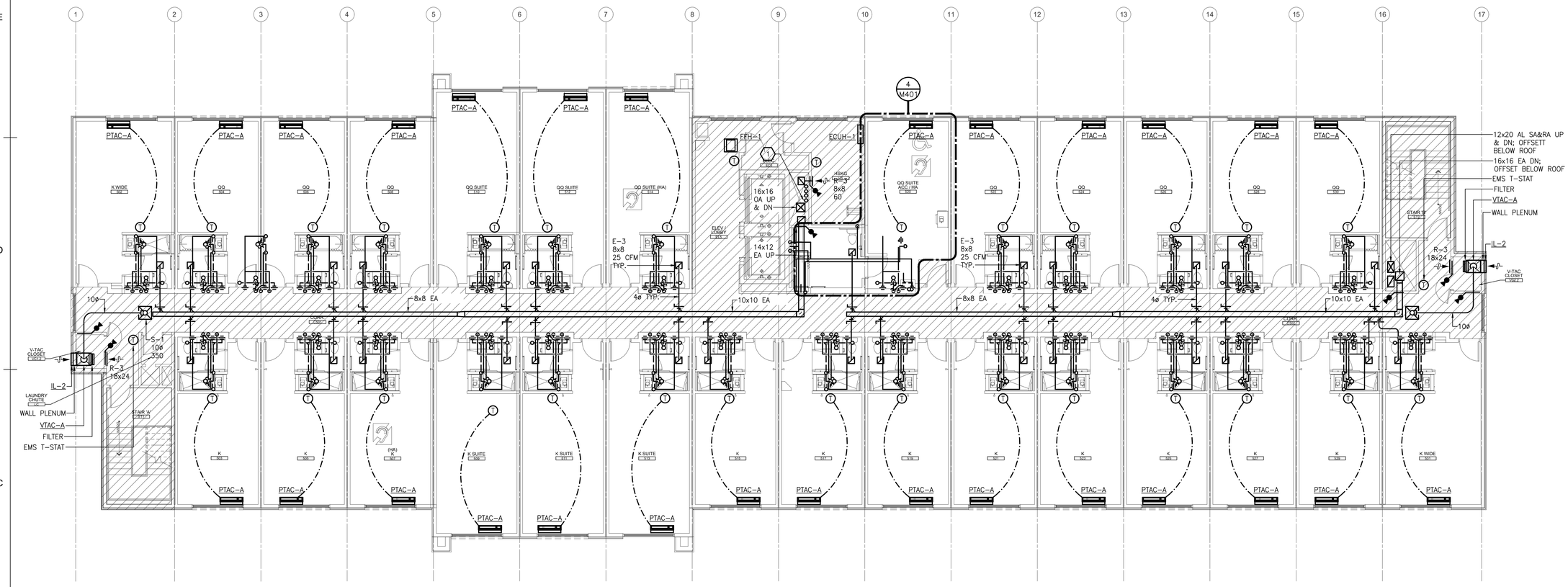

FIFTH FLOOR MECHANICAL PLAN

SCALE:1/8" = 1'–0"

ALL WORK COMPLETED WITHIN HATCHED AREA SHALL BE CONSTRUCTED BY THE SITE CONTRACTOR. ALL WORK NOT LOCATED WITHIN THE HATCHING SHALL BE COMPLETED BY THE MODULE.

HVAC GENERAL NOTES

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4. DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
5. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
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9. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'–0".
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS, VALVES, AND CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.
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Drawn by :
SES

Checked by :

Sheet Title :
FIFTH FLOOR
MECHANICAL PLAN

Project No. :
2018.009

Sheet No. :
M150.M

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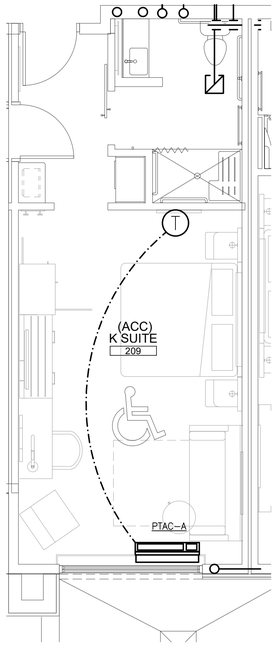
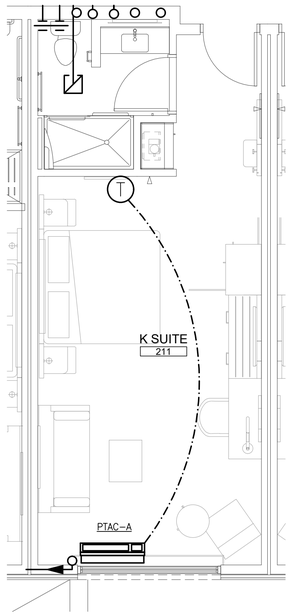
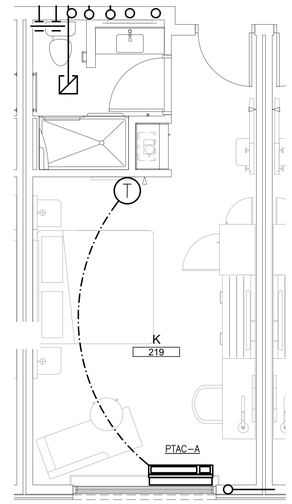


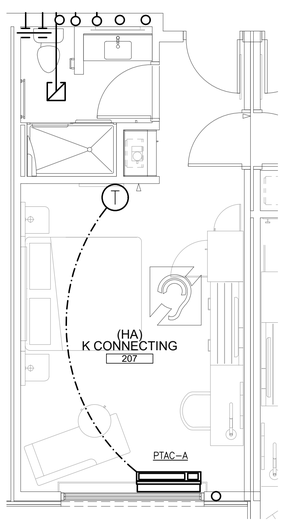
3 ENLARGED KING SUITE ACCESSIBLE MECHANICAL PLAN
SCALE: 1/4" = 1'–0"



2 ENLARGED KING SUITE MECHANICAL PLAN
SCALE: 1/4" = 1'–0"



1 ENLARGED KING MECHANICAL PLAN
SCALE: 1/4" = 1'–0"



6 ENLARGED KING MECHANICAL PLAN
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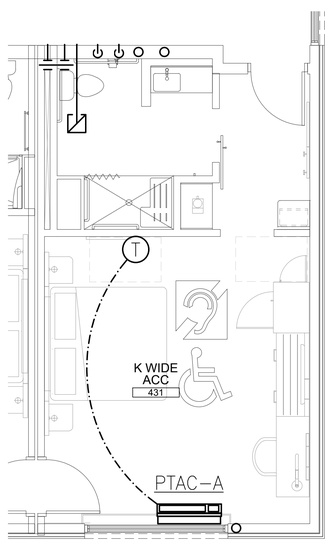
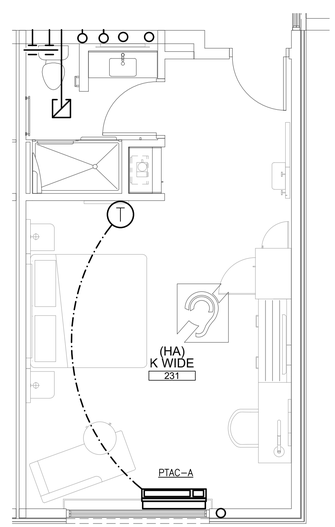


5 ENLARGED KING WIDE MECHANICAL PLAN
SCALE: 1/4" = 1'–0"



4 ENLARGED KING WIDE MECHANICAL PLAN
SCALE: 1/4" = 1'–0"

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2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL PLUMBING FIXTURES, BOTH STANDARD AND BARRIER FREE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE TYPES, BRANCH CONNECTION SIZES AND ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE STATE AND LOCAL COUNTY DEPARTMENT OF HEALTH CROSS CONTAMINATION CODE REQUIREMENTS.
4. VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL UTILITIES IN THE FIELD, INCLUDING POINTS OF CONNECTION, PRIOR TO STARTING ANY WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY INTERFERENCES OR DISCREPANCIES.
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8. PROVIDE BRANCH LINE ISOLATION VALVES ON DOMESTIC PIPING TO EACH GROUP OF FIXTURES AND TOILET ROOMS.
9. PLUMBING VENT PIPING THRU THE ROOF SHALL BE LOCATED 10'–0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
10. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR VALVES/CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. PROVIDE CLEANOUTS AT THE BASE OF ALL STACKS.
11. RUN ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
12. PROVIDE "INLINE" TRAP SEAL PROTECTION OR TRAP PRIMER ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
13. AT EACH CONNECTION OF GAS SUPPLY TO EQUIPMENT, PROVIDE A PIPE UNION, GAS SHUT–OFF VALVE, TEE AND 6" LONG DIRT LEG WITH CAP. WEATHERPROOF PAINT ALL EXTERIOR GAS PIPING.
14. THE CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.

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7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
8. COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
9. BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
10. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'–0".
11. THE PARTIAL FIRST FLOOR CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.
12. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS, VALVES, AND CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.
13. FOR GRILLES, REGISTERS, OR DIFFUSER MOUNTED ON THE UNDERSIDE OF A RATED CEILING MEMBRANE, PROVIDE REGISTER BOOTS WITH RADIATION DAMPER FOR USE WITH RATED FLOOR CEILING ASSEMBLY LISTING. REFER TO ARCHITECTURAL PLANS.

0 1/2" 1" 2"
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Drawn by :
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Project No. :
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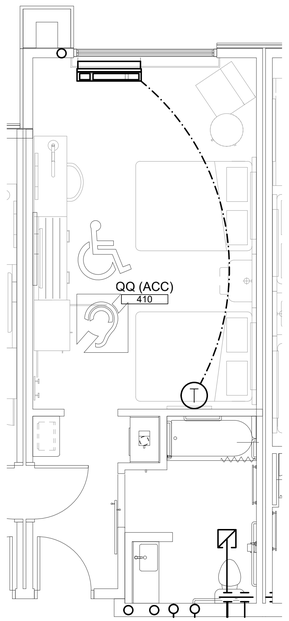
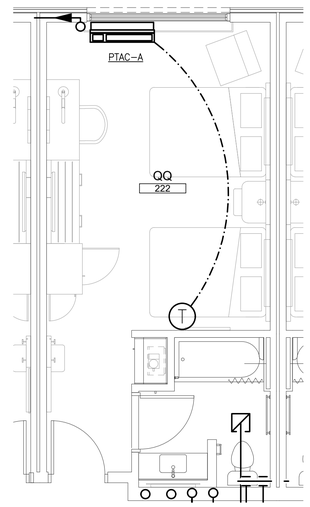


2 ENLARGED QQ SUITE ACCESSIBLE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



1 ENLARGED QQ MECHANICAL PLAN
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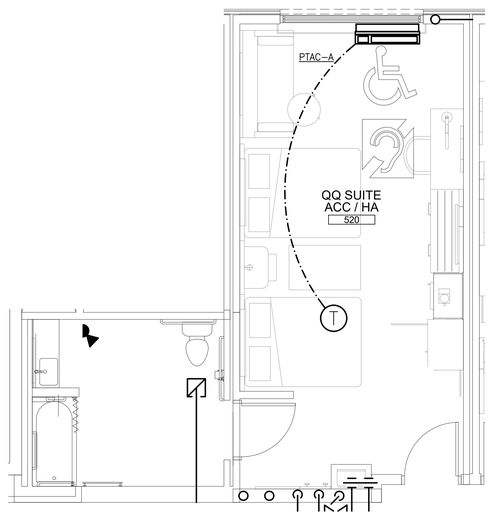
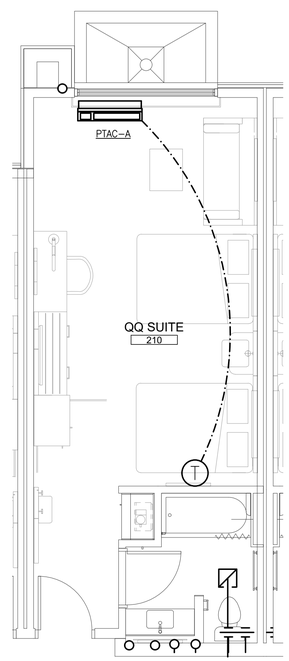


4 ENLARGED QQ 2-BAY ACCESSIBLE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



3 ENLARGED QQ SUITE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

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11. RUN ALL SANITARY AND STORM PIPING 2 1/2" OR LESS AT 1/4" PER FOOT AND 3" AND LARGER PIPING AT 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
12. PROVIDE "INLINE" TRAP SEAL PROTECTION OR TRAP PRIMER ON ALL FLOOR DRAINS AND TRAPS SUBJECT TO EVAPORATION.
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1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE HVAC SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS, SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR STRUCTURAL CONDITIONS OR OTHER CONDITIONS.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. ALL DUCTWORK IS TO BE ROUTED AS HIGH A POSSIBLE. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE AND SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. DUCTWORK/PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
5. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
6. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH ARCHITECTURAL TRADES. SEAL ALL PIPING AND DUCT PENETRATIONS.
7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
8. COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
9. BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
10. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
11. THE PARTIAL FIRST FLOOR CEILING SPACE IS USED AS A RETURN AIR PLENUM. NO PLASTIC MATERIALS INCLUDING PVC PIPING, CONDUIT, WIRING, ETC. SHALL BE USED. ALL MATERIAL IN THE CEILING SPACE IS TO BE PLENUM RATED.
12. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS, VALVES, AND CLEANOUTS LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES.
13. FOR GRILLES, REGISTERS, OR DIFFUSER MOUNTED ON THE UNDERSIDE OF A RATED CEILING MEMBRANE, PROVIDE REGISTER BOOTS WITH RADIATION DAMPER FOR USE WITH RATED FLOOR CEILING ASSEMBLY LISTING. REFER TO ARCHITECTURAL PLANS.

0 1/2" 1" 2"
1 ACCURATE WHEN PRINTED TO SCALE

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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS THRUWAY PLAZA OF ROCKLAND ASSOCIATES CLARKSTOWN (NANUET) ROCKLAND COUNTY, NY 10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOWNSEND · 088078 · LICENSED PROFESSIONAL ENGINEER
04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES
Checked by :

Sheet Title : ENLARGED MECHANICAL PLANS

Project No. : 2018.009

Sheet No. : M401.M

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COPPER FEEDER SCHEDULE

FEEDER (AMPS)	COND. SIZE	2 WIRE WITH GROUND	FEEDER (AMPS)	COND. SIZE	3 WIRE WITH GROUND	FEEDER (AMPS)	COND. SIZE	4 WIRE WITH GROUND
15S	12	2#12, 1#12 GND IN 3/4"C	15	12	3#12, 1#12 GND IN 3/4"C	15N	12	4#12, 1#12 GND IN 3/4"C
20S	12	2#12, 1#12 GND IN 3/4"C	20	12	3#12, 1#12 GND IN 3/4"C	20N	12	4#12, 1#12 GND IN 3/4"C
25S	10	2#10, 1#10 GND IN 3/4"C	25	10	3#10, 1#10 GND IN 3/4"C	25N	10	4#10, 1#10 GND IN 3/4"C
30S	10	2#10, 1#10 GND IN 3/4"C	30	10	3#10, 1#10 GND IN 3/4"C	30N	10	4#10, 1#10 GND IN 3/4"C
35S	8	2#8, 1#10 GND IN 3/4"C	35	8	3#8, 1#10 GND IN 3/4"C	35N	8	4#8, 1#10 GND IN 3/4"C
40S	8	2#8, 1#10 GND IN 3/4"C	40	8	3#8, 1#10 GND IN 3/4"C	40N	8	4#8, 1#10 GND IN 3/4"C
45S	6	2#6, 1#10 GND IN 3/4"C	45	6	3#6, 1#10 GND IN 3/4"C	45N	6	4#6, 1#10 GND IN 1"C
50S	6	2#6, 1#10 GND IN 3/4"C	50	6	3#6, 1#10 GND IN 3/4"C	50N	6	4#6, 1#10 GND IN 1"C
60S	4	2#4, 1#10 GND IN 1"C	60	4	3#4, 1#10 GND IN 1"C	60N	4	4#4, 1#10 GND IN 1 1/4"C
70S	4	2#4, 1#8 GND IN 1"C	70	4	3#4, 1#8 GND IN 1"C	70N	4	4#4, 1#8 GND IN 1 1/4"C
80S	3	2#3, 1#8 GND IN 1"C	80	3	3#3, 1#8 GND IN 1"C	80N	3	4#3, 1#8 GND IN 1 1/4"C
90S	2	2#2, 1#8 GND IN 1"C	90	2	3#2, 1#8 GND IN 1 1/4"C	90N	2	4#2, 1#8 GND IN 1 1/2"C
100S	1	2#1, 1#8 GND IN 1 1/4"C	100	1	3#1, 1#8 GND IN 1 1/4"C	100N	1	4#1, 1#8 GND IN 1 1/2"C
110S	2	2#2, 1#6 GND IN 1"C	110	2	3#2, 1#6 IN 1 1/4"C	110N	2	4#2, 1#6 GND IN 1 1/4"C
125S	1	2#1, 1#6 GND IN 1 1/4"C	125	1	3#1, 1#6 GND IN 1 1/4"C	125N	1	4#1, 1#6 GND IN 1 1/2"C
150S	1/0	2#1/0, 1#6 GND IN 1 1/4"C	150	1/0	3#1/0, 1#6 GND IN 1 1/2"C	150N	1/0	4#1/0, 1#6 GND IN 2"C
175S	2/0	2#2/0, 1#6 GND IN 1 1/2"C	175	2/0	3#2/0, 1#6 GND IN 1 1/2"C	175N	2/0	4#2/0, 1#6 GND IN 2"C
200S	3/0	2#3/0, 1#6 GND IN 1 1/2"C	200	3/0	3#3/0, 1#6 GND IN 2"C	200N	3/0	4#3/0, 1#6 GND IN 2"C
225S	4/0	2#4/0, 1#4 GND IN 2"C	225	4/0	3#4/0, 1#4 GND IN 2"C	225N	4/0	4#4/0, 1#4 GND IN 2 1/2"C
250S	250	2-250 KCMIL, 1#4 GND IN 2"C	250	250	3-250 KCMIL, 1#4 GND IN 2"C	250N	250	4-250 KCMIL, 1#4 GND IN 2 1/2"C
300S	350	2-350 KCMIL, 1#4 GND IN 2 1/2"C	300	350	3-350 KCMIL, 1#4 GND IN 2"C	300N	350	4-350 KCMIL, 1#4 GND IN 3"C
350S	500	2-500 KCMIL, 1#3 GND IN 3"C	350	500	3-500 KCMIL, 1#3 GND IN 3"C	350N	500	4-500 KCMIL, 1#3 GND IN 3 1/2"C
400S	600	2-600 KCMIL, 1#3 GND IN 3"C	400	600	3-600 KCMIL, 1#3 GND IN 3 1/2"C	400N	600	4-600 KCMIL, 1#3 GND IN 4"C
450S	2-4/0	(2) 2#4/0, 1#2 GND IN 2"C	450	2-4/0	(2) 3#4/0, 1#2 GND IN 2"C	450N	2-4/0	(2) 4#4/0, 1#2 GND IN 2 1/2"C
500S	2-250	(2) 2-250 KCMIL, 1#2 GND IN 2"C	500	2-250	(2) 3-250 KCMIL, 1#2 GND IN 2 1/2"C	500N	2-250	(2) 4-250 KCMIL, 1#1 GND IN 3"C
600S	2-350	(2) 2-350 KCMIL, 1#1 GND IN 2 1/2"C	600	2-350	(2) 3-350 KCMIL, 1#1 GND IN 2 1/2"C	600N	2-350	(2) 4-350 KCMIL, 1#1 GND IN 3"C
700S	2-500	(2) 2-500 KCMIL, 1#1/0 GND IN 3"C	700	2-500	(2) 3-500 KCMIL, 1#1/0 GND IN 3"C	700N	2-500	(2) 4-500 KCMIL, 1#1/0 GND IN 3 1/2"C
800S	2-600	(2) 2-600 KCMIL, 1#1/0 GND IN 3"C	800	2-600	(2) 3-600 KCMIL, 1#1/0 GND IN 3 1/2"C	800N	2-600	(2) 4-600 KCMIL, 1#1/0 GND IN 4"C
1000S	3-500	(3) 2-500 KCMIL, 1#2/0 GND IN 3"C	1000	3-500	(3) 3-500 KCMIL, 1#2/0 GND IN 3"C	1000N	3-500	(3) 4-500 KCMIL, 1#2/0 GND IN 3 1/2"C
1200S	3-600	(3) 2-600 KCMIL, 1#3/0 GND IN 4"C	1200	3-600	(3) 3-600 KCMIL, 1#3/0 GND IN 4"C	1200N	3-600	(3) 4-600 KCMIL, 1#3/0 GND IN 4"C
1600S	4-600	(4) 2-600 KCMIL, 1#4/0 GND IN 4"C	1600	4-600	(4) 3-600 KCMIL, 1#4/0 GND IN 4"C	1600N	4-600	(4) 4-600 KCMIL, 1#4/0 GND IN 4"C
2000S	5-600	(5) 2-600 KCMIL, 1-250 KCMIL GND IN 4"C	2000	5-600	(5) 3-600 KCMIL, 1-250 KCMIL GND IN 4"C	2000N	5-600	(5) 4-600 KCMIL, 1-250 KCMIL GND IN 4"C
2500S	7-500	(7) 2-500 KCMIL, 1-350 KCMIL GND IN 3 1/2"C	2500	7-500	(7) 3-500 KCMIL, 1-350 KCMIL GND IN 3 1/2"C	2500N	7-500	(7) 4-500 KCMIL, 1-350 KCMIL GND IN 3 1/2"C
3000S	8-500	(8) 2-500 KCMIL, 1-400 KCMIL GND IN 3 1/2"C	3000	8-500	(8) 3-500 KCMIL, 1-400 KCMIL GND IN 3 1/2"C	3000N	8-500	(8) 4-500 KCMIL, 1-400 KCMIL GND IN 3 1/2"C
4000S	10-600	(10) 2-600 KCMIL, 1-500 KCMIL GND IN 4"C	4000	10-600	(10) 3-600 KCMIL, 1-500 KCMIL GND IN 4"C	4000N	10-600	(10) 4-600 KCMIL, 1-500 KCMIL GND IN 4"C
5000S	12-600	(12) 2-600 KCMIL, 1-700 KCMIL GND IN 4"C	5000	12-600	(12) 3-600 KCMIL, 1-700 KCMIL GND IN 4"C	5000N	12-600	(12) 4-600 KCMIL, 1-700 KCMIL GND IN 4"C
6000S	15-600	(15) 2-600 KCMIL, 1-500 KCMIL GND IN 4"C	6000	15-600	(15) 3-600 KCMIL, 1-500 KCMIL GND IN 4"C	6000N	15-600	(15) 4-600 KCMIL, 1-800 KCMIL GND IN 4"C

NOTES:

1. AMPACITIES FOR FEEDER SIZES ARE BASED ON N.E.C. CODE 110-14. (TERMINATION PROVISIONS FOR EQUIPMENT RATED 100A OR LESS ARE RATED FOR USE WITH CONDUCTORS RATED 60°C. TERMINATION PROVISIONS FOR EQUIPMENT RATED GREATER THAN 100A ARE RATED FOR USE WITH CONDUCTORS RATED 75°C.)
2. CONTRACTOR MAY OPTIONALLY USE 1/2" CONDUIT IN LIEU OF 3/4" CONDUIT FOR #10 AND #12 CONDUCTORS.
3. CONDUIT FILL IS BASED ON 40% FILL USING SINGLE CONDUCTOR BUILDING WIRE OF INSULATION TYPES THHN, THWN, THWN-2, XHH, XHHW, AND XHHW-2 IN RMC. FOR OTHER RACEWAY TYPES REFER TO APPROPRIATE N.E.C. APPENDIX C TABLES.
4. EQUIPMENT GROUND SIZING BASED ON N.E.C. TABLE 250.122.

APPLICABLE CODES AND REGULATIONS

YEAR	CODE
2020	BUILDING CODE OF NEW YORK STATE
2020	RESIDENTIAL CODE OF NEW YORK STATE
2020	FIRE CODE OF NEW YORK STATE
2020	ENERGY CONSERVATION CODE OF NEW YORK STATE
2016	SAFETY CODE FOR ELEVATORS AND ESCALATORS 2016 OF NEW YORK STATE
2010	ADA STANDARDS
2017	NATIONAL ELECTRICAL CODE 2017 OF NEW YORK STATE
2020	PROPERTY MAINTENANCE CODE OF NEW YORK STATE

TECHNOLOGY SYMBOL LIST

SYMBOL	DESCRIPTION
	CAMERA
CR	CARD READER
	TECHNOLOGY OUTLET – 6" ABOVE COUNTER
	TECHNOLOGY OUTLET – FLOOR
	TECHNOLOGY OUTLET – WALL
DH	MAGNETIC DOOR HOLDER
	PUSH BUTTON
S	SPEAKER
	WALL CLOCK – SINGLE FACE
	WALL CLOCK – DOUBLE FACE
C S	WALL CLOCK AND SPEAKER UNIT
WAP	WIRELESS ACCESS POINT

NOTES:

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONDUIT FOR ALL DEVICES INDICATED.
2. LOW VOLTAGE CONTRACTOR SHALL PROVIDE EXACT SPECIFICATIONS AND LOCATIONS OF ALL DEVICES.

POWER SYMBOL LIST

SYMBOL	DESCRIPTION
	CONDUIT DOWN
	CONDUIT UP
	DISCONNECT SWITCH – NON FUSED
	DISCONNECT SWITCH – FUSED
	DISCONNECT SWITCH – COMB. MOTOR STARTER
	ELECTRICAL PANEL
	GROUNDING ROD
	GROUND
	GROUNDING BAR
J	JUNCTION BOX
M	METER
	MOTOR – SINGLE PHASE
	MOTOR – THREE PHASE
$M	MOTOR RATED SWITCH
	POWER RECEPTACLE – SIMPLEX TYPE
	POWER RECEPTACLE – DUPLEX TYPE
	POWER RECEPTACLE – DUPLEX 6" ABOVE COUNTER
USB	POWER RECEPTACLE – USB/DUPLEX COMBO. DEVICE
	POWER RECEPTACLE – QUADRUPLEX TYPE
	POWER RECEPTACLE – RECESSED FLOOR TYPE
	POWER RECEPTACLE – SPECIALTY TYPE
TC	TIME CLOCK
T	TRANSFORMER

NOTES:

1. ALL DEVICE RATINGS/SIZES SHALL BE COORDINATED WITH PLANS AND SCHEDULES.

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION
F	AUDIBLE DEVICE/WALL MOUNTED
F	VISUAL DEVICE/WALL MOUNTED
F	COMBO AUDIBLE/VISUAL DEVICE/WALL MOUNTED
F	AUDIBLE DEVICE/CEILING MOUNTED
F	VISUAL DEVICE/CEILING MOUNTED
F	COMBO AUDIBLE/VISUAL DEVICE/CEILING MOUNTED
CS	CO ALARM/SMOKE DETECTOR
S	SMOKE DETECTOR
CO	CO ALARM
S	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR
FD	FIRE DEPARTMENT COMMUNICATION OUTLET
EXISTING / NEW	COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)
EXISTING / NEW	COMBINATION FIRE/SMOKE DAMPER (VERTICAL)
F	MANUAL PULL STATION
FS	FLOW SWITCH
TS	TAMPER SWITCH
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
I/O	INPUT/OUTPUT CONTROL MODULE

NOTES:

1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
$4	FOUR WAY SWITCH
$L	LIGHT CONTROL LOCATION
G	GENERATOR TRANSFER DEVICE

ELECTRICAL ABBREVIATIONS

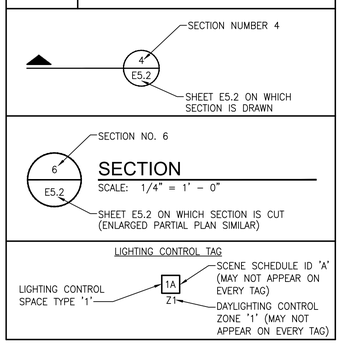
ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A	AMPERE
AF	AMPERE FUSE/AMPERE FRAME
AWG	AMERICAN WIRE GAUGE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
C	CONDUIT OR CEILING MOUNTED
CB	CIRCUIT BREAKER
CL	CONTROL LOAD
CT	CURRENT TRANSFORMER
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
F	FUSE
G/GRD	GROUND
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MGB	MAIN GROUNDING BAR
MLO	MAIN LUG ONLY
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N/NEU	NEUTRAL
NF	NON-FUSIBLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
PH. OR ø	PHASE
P	POLE
PF	POWER FACTOR
PVC	POLYVINYL CHLORIDE (PLASTIC)
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(RR)	REMOVE AND REINSTALL
RMC	RIGID METALLIC CONDUIT
RP	RECEPTACLE PANEL
TBB	TELEPHONE BACKBOARD
TMGB	TECHNOLOGY MAIN GROUNDING BAR
TGB	TECHNOLOGY GROUNDING BAR
TYP.	TYPICAL
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

DRAWING INDEX

SHT NO	DESCRIPTION
E000	ELECTRICAL GENERAL INFORMATION
E001	LIGHTING CONTROLS
ES100	ELECTRICAL SITE PLAN
E110	FIRST FLOOR POWER PLAN
E120	SECOND FLOOR POWER PLAN
E130	THIRD FLOOR POWER PLAN
E140	FOURTH FLOOR POWER PLAN
E150	FIFTH FLOOR POWER PLAN
E160	ROOF POWER PLAN
E210	FIRST FLOOR LIGHTING PLAN
E220	SECOND FLOOR LIGHTING PLAN
E230	THIRD FLOOR LIGHTING PLAN
E240	FOURTH FLOOR LIGHTING PLAN
E250	FIFTH FLOOR LIGHTING PLAN
E400	ENLARGED ELECTRICAL PLANS
E500	ELECTRICAL DETAILS
E501	ELECTRICAL DETAILS
E600	ELECTRICAL PANEL SCHEDULES
E601	ELECTRICAL PANEL SCHEDULES
E602	ELECTRICAL PANEL SCHEDULES
E603	ELECTRICAL PANEL SCHEDULES
E604	ELECTRICAL PANEL SCHEDULES
E700	ELECTRICAL RISER DIAGRAM

DRAWING NOTATION

SYMBOL	DESCRIPTION
L1	LIGHTING FIXTURE TAG
1	CONSTRUCTION KEY NOTE NUMBER 1
1	DEMOLITION KEY NOTE NUMBER 1
20	COPPER FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE)
20	ALUMINUM FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE)
EQUIPMENT	EQUIPMENT TAG
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIPMENT
	NEW OR MODIFIED UNDERGROUND WIRING
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	POINT OF NEW CONNECTION



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Issued for :

BIDS/PERMITS 04.30.21

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES

Checked by :

Sheet Title : ELECTRICAL GENERAL INFORMATION

Project No. : 2018.009

Sheet No. : E000

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LIGHTING CONTROLS MATRIX

TAG NUMBER	SPACE TYPE	MANUAL ON/OFF SWITCH	DIMMING SWITCH	OVERRIDE SWITCH	MULITI ZONE CONTROL	KEY SWITCH	TIMECLOCK	OCCUPANCY SENSOR	PHOTOCONTROL DIMMING	EXTERIOR PHOTOCELL	COLOR TUNING	RGB/RGBW	BACNET INTEGRATION	PLUG LOAD CONTROL RELAY	SEQUENCE OF OPERATIONS
		PARAMETERS													
1	SALES, GENERAL MANAGER	X	X					X						X	MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
2	MEETING	X	X		X			X						X	MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
3	LOBBY, RECEPTION, VESTIBULE, MARKET, CHECK-IN, STORE, BREAKFAST	X	X				X	X							LOCAL CONTROL SWITCH WITH ON/OFF AND DIM FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR OR SCHEDULED TIME FUNCTION. AUTOMATIC PARTIAL OFF TO 50% VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE. SCHEDULED SHUTOFF VIA SCHEDULED TIME FUNCTION.
4	CORRIDOR			X	X		X	X							LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.
5	RESTROOM	X						X							LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.
6	STAIRWELL						X	X							AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR OR SCHEDULED TIME FUNCTION. AUTOMATIC PARTIAL OFF TO 50% VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE. SCHEDULED SHUTOFF VIA SCHEDULED TIME FUNCTION.
7	FITNESS AREA, GUEST LAUNDRY	X	X					X							MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
8	PANTRY, LAUNDRY, STORAGE, BREAK, SERVER, HOUSEKEEPING	X						X							LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.
9	UTILITY	X													LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION.
10	POOL AREA	X	X					X	X						AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR OR SCHEDULED TIME FUNCTION. AUTOMATIC PARTIAL OFF TO 50% VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE. SCHEDULED SHUTOFF VIA SCHEDULED TIME FUNCTION.
11	TERRACE	X	X					X	X						AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR OR SCHEDULED TIME FUNCTION. AUTOMATIC PARTIAL OFF TO 50% VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE. SCHEDULED SHUTOFF VIA SCHEDULED TIME FUNCTION.
12	EXTERIOR FAÇADE LIGHTING			X			X			X					MANUAL OVERRIDE SWITCH WITH ON/OFF AND DIM FUNCTION. AUTOMATIC ON TO FULL VIA SCHEDULED TIME FUNCTION OR PHOTOCELL. LIGHTING SHALL BE TURNED OFF FROM 12AM TO 6AM. FULL SHUTOFF VIA SCHEDULED TIME FUNCTION OR PHOTOSENSOR.
13	EXTERIOR EGRESS/SECURITY LIGHTING			X			X			X					MANUAL OVERRIDE SWITCH WITH ON/OFF AND DIM FUNCTION. AUTOMATIC ON TO FULL VIA SCHEDULED TIME FUNCTION OR PHOTOCELL. AUTOMATIC LIGHT LEVEL REDUCTION BY A MINIMUM 30% AFTER HOURS VIA SCHEDULED TIME FUNCTION. FULL SHUTOFF VIA SCHEDULED TIME FUNCTION OR PHOTOSENSOR.
14	PARKING AREA	X		X	X			X	X						MANUAL OVERRIDE SWITCH WITH ON/OFF AND DIM FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC LIGHT LEVEL REDUCTION BY A MINIMUM 30% WHEN NO ACTIVITY DETECTED WITHIN 20 MINUTES AND THE AREA CONTROLLED IS NO LARGER THAN 3600 SQ. FT. COVERED VEHICLE ENTRANCES AND EXITS HAVE SEPARATE CONTROLS TO REDUCE LIGHTING LEVELS TO 50% MINIMUM FROM SUNSET TO SUNRISE.
15	GREAT ROOM, BUSINESS CENTER	X	X		X			X							MANUAL ON/AUTOMATIC OFF WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE (VACANCY MODE). CONTINUOUS DIMMING.
16	WORK AREA	X						X						X	LOCAL CONTROL SWITCH WITH ON/OFF FUNCTION. AUTOMATIC ON TO FULL VIA OCCUPANCY SENSOR. AUTOMATIC FULL OFF VIA OCCUPANCY SENSOR (VACANCY MODE) WITHIN 20 MIN OF OCCUPANTS LEAVING SPACE.

SCENE SCHEDULE DIFINITIONS

SCHEDULE ID	NAME	CONTROL ZONE	ZONE DESCRIPTION
A	GREAT ROOM, BUSINESS CENTER	a	GENERAL LIGHTING FIXTURES L6
		b	FIXTURES O5
		c	BUSINESS CENTER FIXTURES L6 AND L6B
		d	WOOD ACCENT FIXTURES L6B
		e	PENDANT FIXTURES O4
		f	BREAKFAST SOFFIT FIXTURES L6
B	MEETING	a	CENTER LFIXTURES O2
		b	GENERAL LIGHTING FIXTURES L6
		c	WALLWASH FIXTURES L8

FIXTURE OUTPUT AND NUMBER OF SCENES TO BE CONFIRMED WITH OWNER.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LIGHT ENGINE	WATTAGE	VOLTAGE	REMARKS
L1	1x4' SURFACE MOUNTED LIGHT	LITHONIA	WL4-20L-MVOLT-GZ10-LP830-MG	LED 2000 LUMENS, 3000K, 80CRI	19W	MVOLT	
L2	4' VAPOR TIGHT STRIP LIGHT	LITHONIA	VAP-4000LM-FST-WD-MVOLT-GZ10-30K-80CRI	LED 3000 LUMENS, 3000K, 80CRI	33W	MVOLT	
L3	2'x4' LAY-IN LIGHT	LITHONIA	2ALL4-40L-MVOLT-GZ10-LP830	LED 4000 LUMENS, 3000K, 80CRI	32W	MVOLT	
L4	2'x2' LAY-IN LIGHT	LITHONIA	2ALL2-33L-MVOLT-GZ10-LP830	LED 3300 LUMENS, 3000K, 80CRI	29 W	MVOLT	
4A	2'x2' GYP CEILING LIGHT	LITHONIA	2ALL2-33L-MVOLT-GZ10-LP830-DGA22	LED 3300 LUMENS, 3000K, 80CRI	29 W	MVOLT	
L6	4" DOWNLIGHT	GOTHAM	EVO4-30/15-WR-MWD-LD-MVOLT-GZ10-90CRI	LED 1500 LUMENS, 3000K, 90CRI	15W	MVOLT	FINISH, TRIM BY ARCHITECT.
L6B	4" DOWNLIGHT - WOOD CEILING	GOTHAM	EVO4-30/15-BR-MWD-LD-MVOLT-GZ10-90CRI	LED 1500 LUMENS, 3000K, 90CRI	15W	MVOLT	FINISH, TRIM BY ARCHITECT.
L8	4" WALLWASH DOWNLIGHT	GOTHAM	EVO4LW-30/07-WR-LD-MVOLT-GZ10	LED 750 LUMENS, 3000K, 90CRI	12W	MVOLT	FINISH, TRIM BY ARCHITECT.
L9	4" DOWNLIGHT - UL WET LOCATION RATED.	GOTHAM	EVO4-30/15-MD-MVOLT-GZ10-90CRI	LED 1500 LUMENS, 3000K, 90CRI	14W	MVOLT	FINISH, TRIM BY ARCHITECT.
L9E	4" DOWNLIGHT - UL WET LOCATION RATED. WITH EMERGENCY BATTERY PACK.	GOTHAM	EVO4-30/15-MD-MVOLT-GZ10-EL-90CRI	LED 1500 LUMENS, 3000K, 90CRI	14W	MVOLT	FINISH, TRIM BY ARCHITECT. 11" CLEAR ABOVE FIXTURE FOR BATTERY MAINTENANCE.
L12E	WALL MOUNTED STAIR LIGHT WITH EMERGENCY BATTERY PACK.	PEERLESS	RD4W4-LSL-4-MSL4-80CRI-30K-1300LMF-400LMF-DARK-ZT-120-SCT-IEC	LED 5210 LUMENS, 3000K, 80CRI	82W	120	FINISH BY ARCHITECT.
L13	POOL LIGHTS - NATATORIUM RATED	KENALL	CDL-FF-2FW-55L-30K8-W-CS-T-RIG6-120-DIM1	LED 4334 LUMENS, 3000K, 80CRI	62W	120	
L15	IMPACT RESISTANT LIGHT	RAB	VXBRLED13DG	LED 729 LUMENS, 5000K	13W	120	
O1	CORRIDOR WALL SCONCE	SCOTT LAMP COMPANY	6812	LED 1800 LUMENS, 3000K	14W	120	FIXTURE EXP2-405.1 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION.
O2	MEETING LAY-IN TUBE FIXTURE - UP AND DOWN LIGHT.	SCOTT LAMP COMPANY	2A08	(2) LED BOARDS, 3000K	160W	120	FIXTURE EXP2-402.1 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION.
O3	PLUG-IN BACK-LIT PUBLIC REST ROOM MIRROR.	ELECTRIC MIRROR	CAN1.1-36.00X42.00-LHO-OS-30K	LED, 3000K	N/A	120	FIXTURE EXP2-441 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION.
O4	FACETED FACE PENDANT LIGHTS AT GREAT ROOM.	SCOTT LAMP COMPANY	2A07	E26 MEDIUM BASE. LED LAMP: 20W, A19, 3000K	20W	120	FIXTURE EXP2-401.1 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION.
O5	GREAT ROOM LOBBY LOUNGE - GROUP OF 3 FIXTURES.	SCOTT LAMP COMPANY	2A11-90	(8) LED BOARDS, 3000K; (4) LED BOARDS, 3000K	200W	120	FIXTURE EXP2-403.1 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION.
O6	CHECK-IN TRACK LIGH WITH TWO HEADS. PROVIDE WITH BRAND-APPROVED BLUE FINISH.	TBD	TBD	TBD	TBD	TBD	OWNER PROVIDED, CONTRACTOR INSTALLED. FIXTURE SELECTION DURING FINAL SIGNAGE PACKAGE SELECTION.
O7	BREAKFAST AREA TRACK LIGHTING.	JUNO LIGHTING	TRACK: T-TRAC OR R-TRAC; HEAD: R600L G2 30K 90CRI PDIM FL WH	LED, 3000K	10 W/HEAD	120	FIXTURE EXP2-406.1 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION. BREAKROOM TRACK LIGHTING MUST FOLLOW "EXPRESS START PENDANT GUIDELINES"
O8	BREAKFAST AREA TRACK PENDANT LIGHTING.	VARICK GALLERY	BOUVIER 1 LIGHT INVERTED PENDANT	A19 MEDIUM INCANDESCENT LAMP.	100W MAX	120	OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION. BREAKROOM TRACK LIGHTING MUST FOLLOW "EXPRESS START PENDANT GUIDELINES"
O9	BREAKFAST AREA TRACK PENDANT LIGHTING	MILLENNIUM LIGHTING	R SERIES 1 LIGHT KITCHE PENDANT	A19 MEDIUM INCANDESCENT LAMP.	200W MAX	120	OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION. BREAKROOM TRACK LIGHTING MUST FOLLOW "EXPRESS START PENDANT GUIDELINES"
S1E	EXTERIOR SCONCE WITH EMERGENCY BATTERY PACK.	LITHONIA	WST LED-P2-40K-VW-MVOLT-E7WC-DNATXD	LED 3000 LUMENS, 4000K, 80CRI	25W	MVOLT	FINISH BY ARCHITECT.
S2	4" CANOPY DOWN LIGHT.	GOTHAM	EVO4-40/25-MWD-AR-LSS-MVOLT-GZ10	LED 2500 LUMENS, 4000K, 80CRI	26W	MVOLT	FINISH BY ARCHITECT.
S2E	4" CANOPY DOWN LIGHT WITH EMERGENCY BATTERY PACK.	GOTHAM	EVO4-40/25-MWD-AR-LSS-MVOLT-GZ10-EL	LED 2500 LUMENS, 4000K, 80CRI	26W	MVOLT	FINISH BY ARCHITECT.
S3	LED ACCENT LIGHT	N/A	HALLMARK FIXTURE BY OWNER.	N/A	N/A	120	FIXTURE EXP2-1002 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
S4	EXTERIOR WALL SCONCE. SILVER GRAY PAINTED.	DECORS USA	DU-CR-4/6-CWX-[	LED CREE XRE #4, COOL WHITE, 6500K, 300 LUMENS	5W	120	FIXTURE EXP2-1109.1 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
S5	LED BUILDING UPLIGHTS	N/A	HALLMARK FIXTURE BY OWNER.	N/A	N/A	120	FIXTURE EXP2-1110 HI EX PROJECT MANUAL FOR SPECIFICATION INFORMATION. OWNER PROVIDED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
S6	POLE MOUNTED LIGHTS WITH 30' POLES.	LSI	SLM-LED-18L-SIL-FT-UNV-50-70CRI-IL	LED 18000 LUMENS, 5000K, 70 CRI	149W	UNI	FLUSH MOUNT WITH FINISHED GRADE. FINISH BY ARCHITECT.
S7	POLE MOUNTED LIGHTS WITH CUTOFF AND 30' POLES.	LSI	SLM-LED-18L-5W-UNV-50-70CRI	LED 18000 LUMENS, 5000K, 70 CRI	149W	UNI	FLUSH MOUNT WITH FINISHED GRADE. FINISH BY ARCHITECT.
EM1	EMERGENCY BATTERY UNIT	LITHONIA	ELM2L-SDRT	(2)LED HEADS	5W	DUAL	
EM2	EMERGENCY BATTERY UNIT - SEALED NEMA 4X FOR POOL ENVIORNMENT.	LITHONIA	EXTL SP2200L UVOLT LTP SDRT	(2)LED 1100 LUMENS	32W	UVOLT	
X1	UNIVERSAL MOUNT EXIT SIGN - THERMOPLASTIC WITH EMERGENCY BATTERY PACK.	LITHONIA	LQM-S-3-120/277-EL N-SD	LED	6W	DUAL	STENCIL COLOR AND FINISH BY ARCHITECT.
X2	UNIVERSAL MOUNT EXIT SIGN - THERMOPLASTIC WITH EMERGENCY BATTERY PACK AND DOUBLE HEAD EGRESS LIGHTS.	LITHONIA	HLHQM-LED-HO-SD-ELA T QL0309 SD	LED (2)1.5W HEADS	6W	120	STENCIL COLOR AND FINISH BY ARCHITECT.
X3	EXIT SIGN - VANDAL-RESISTANT, SEALED FOR OUTDOOR USE.	LITHONIA	LV -S-1-120/277-EL N-UM-CW-SD	LED	17W	120	STENCIL COLOR AND FINISH BY ARCHITECT.
X4	EXIT SIGN - SEALED NEMA 4X FOR POOL ENVIORNMENT.	LITHONIA	LV -S-1-120/277-EL N-UM-4X-SD	LED	17W	120	STENCIL COLOR AND FINISH BY ARCHITECT.

LUMINAIRE SCHEDULE IS BASED ON FOMULA BLUE 2.O PROTOTYPE.

FIXTURE TYPE KEY:

L STANDARD
S SITE
R RESIDENTIAL
O OWNER PROVIDED
X EXIT LIGHTS
E EMERGENCY EGRESS

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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICK TOWNSEND · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
LIGHTING CONTROLS

Project No. :
2018.009

Sheet No. :
E001

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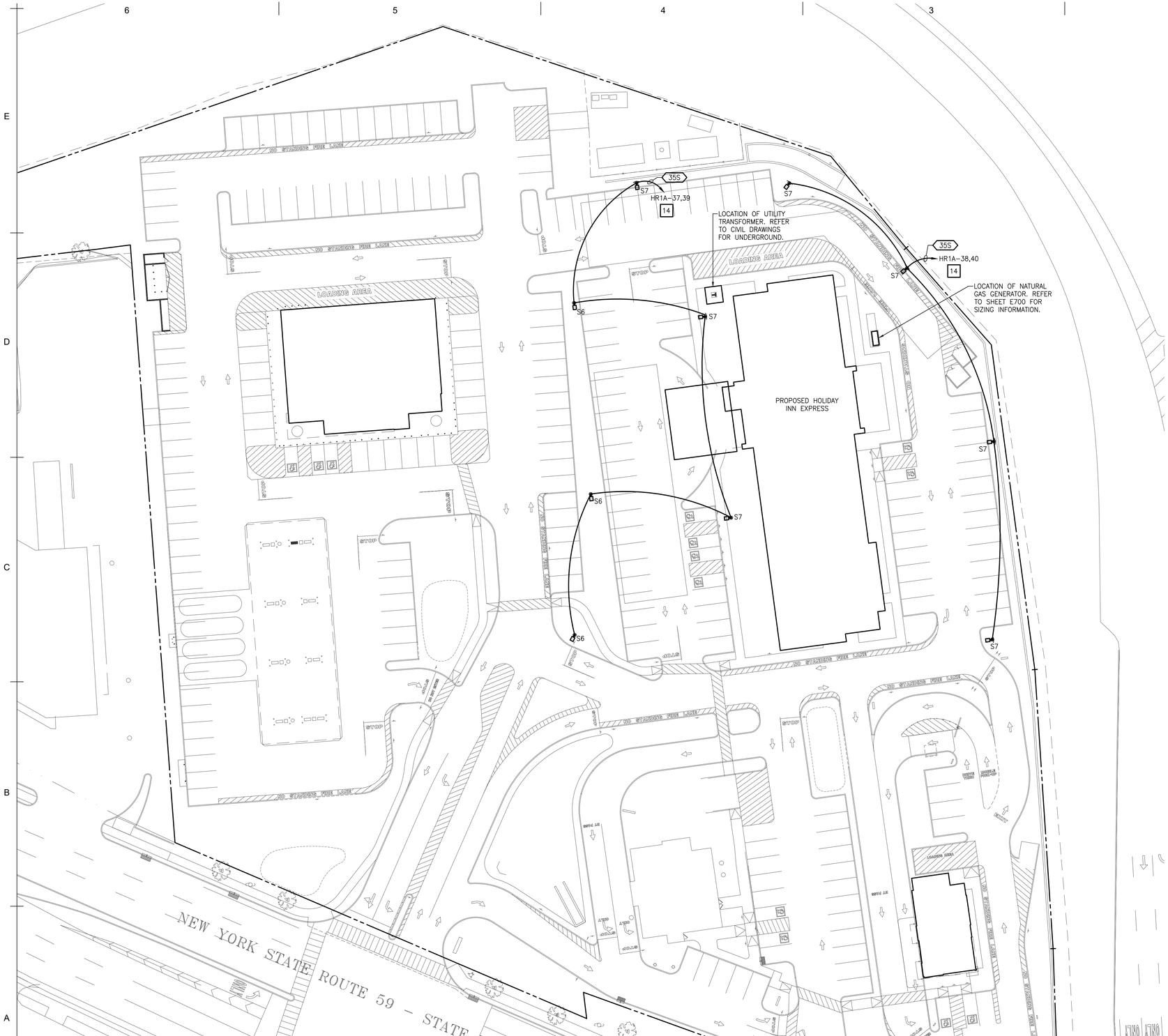

ELECTRICAL SITE PLAN
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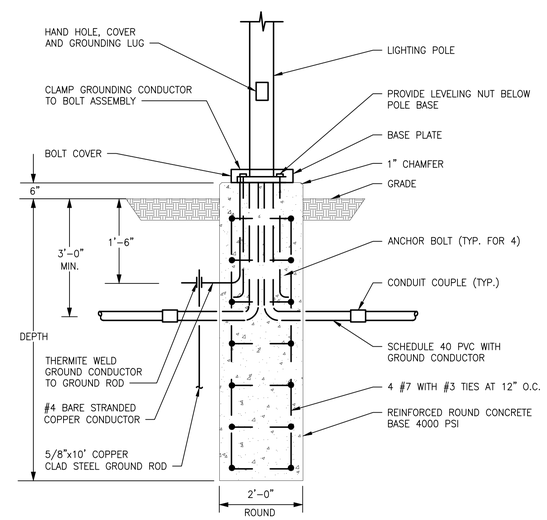
SITE PLAN GENERAL NOTES

1. FIELD VERIFY LOCATIONS OF EXISTING UNDERGROUND SERVICES TO COORDINATE ALL POLE BASE LOCATIONS AND UNDERGROUND SERVICES BEING INSTALLED UNDER THIS CONTRACT WITH CIVIL DRAWINGS PRIOR TO INSTALLATION OF POLE BASES AND CONDUIT.

EC TO COORDINATE FULL SCOPE OF SITE WORK WITH SITE CONTRACTOR.



LIGHTING POLE BASE DETAIL (6" BASE)
NO SCALE

NOTE:
COORDINATE ANCHOR BOLT SIZE WITH SPECIFIED POLE AND LUMINAIRE.
DEPTH = 5' FOR POLES 0 – 10'
DEPTH = 6' FOR POLES 11 – 25'
DEPTH = 7' FOR POLES 26 – 35'

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Drawn by :
SES
Checked by :

Sheet Title :
ELECTRICAL SITE PLAN

Project No. :
2018.009

Sheet No. :
ES100

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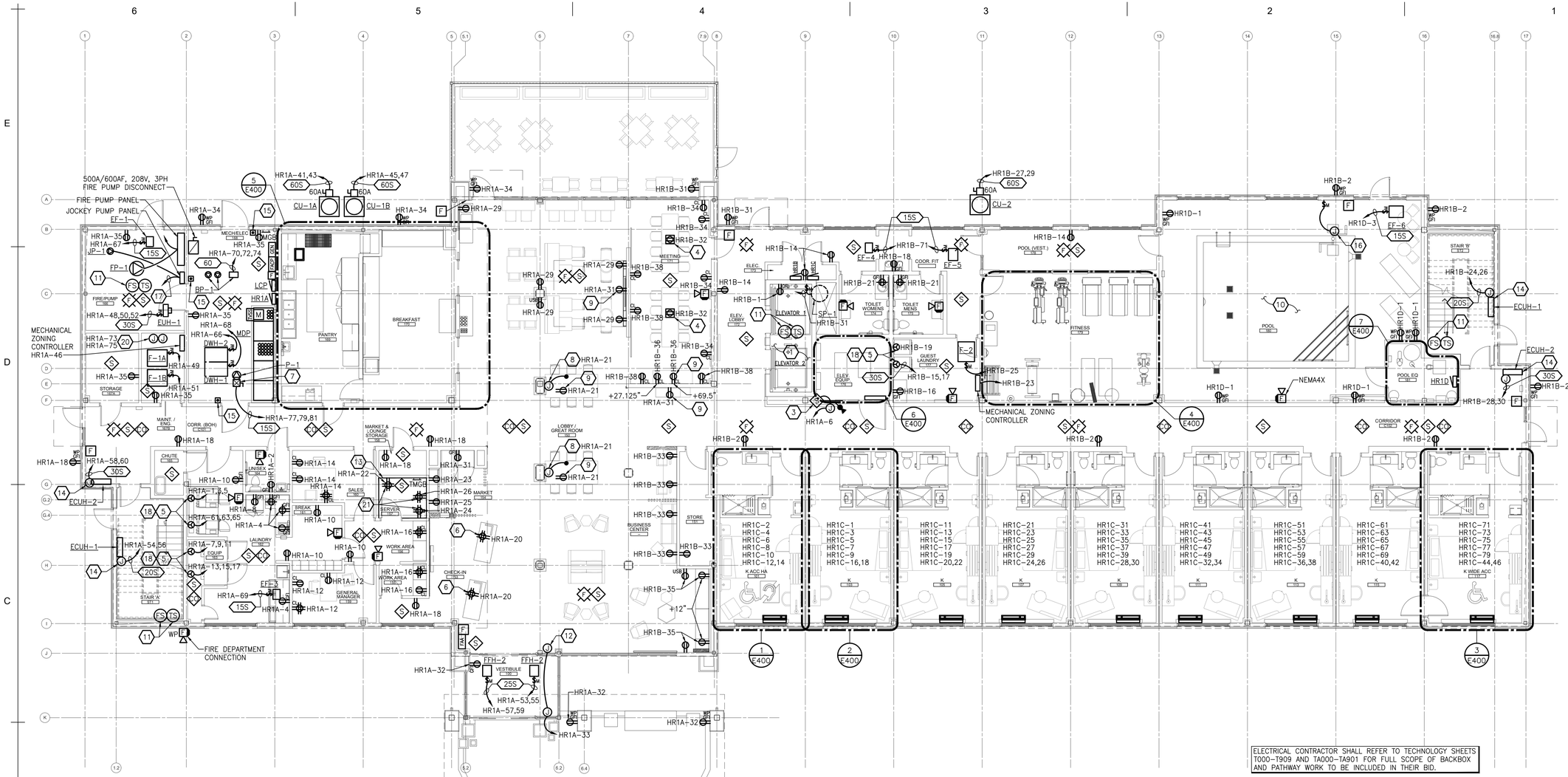

FIRST FLOOR POWER PLAN

SCALE:1/8" = 1'-0"

ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY SHEETS T000-T909 AND TA000-TA901 FOR FULL SCOPE OF BACKBOX AND PATHWAY WORK TO BE INCLUDED IN THEIR BID.

KEYED NOTES

1. REFER TO ELEVATOR DETAIL ON SHEET E600 FOR ADDITIONAL INFORMATION.
2. PROVIDE JUNCTION BOXES ABOVE CEILING FOR CONNECTIONS TO MODULAR HOTEL ROOM POWER CONNECTIONS. COORDINATE FINAL LOCATION IN FIELD WITH CHAMPION MODULES AND ARCHITECTURAL TRADES.
3. PROVIDE DUCT MOUNTED SMOKE DETECTOR AND POWER CONNECTION FOR MECHANICAL FIRE/SMOKE DAMPER. CIRCUIT AS INDICATED. COORDINATE FINAL INSTALLATION WITH FIRE ALARM CONTRACTOR AND MECHANICAL TRADES.
4. PROVIDE LEGRAND FLOOR BOX MODEL RFB4 WITH (2) DUPLEX RECEPTACLE BRACKETS. PROVIDE (1) 3/4"C FOR POWER. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUITS, CONDUIT SIZES, AND INTERNAL COMMUNICATION BRACKETS FOR EACH BOX. COORDINATE FINAL LOCATION AND FINISHES OF ALL FLOOR BOXES WITH ARCHITECTURAL TRADES AND OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
5. CONFIRM REQUIRED NEMA CONFIGURATION OF RECEPTACLE, FINAL CIRCUIT BREAKER SIZE, AND WIRE SIZE FOR WASHER OR DRYER RECEPTACLE WITH OWNER PRIOR TO INSTALL.
6. RECEPTACLES SHALL BE FED FROM UNDERGROUND AND MOUNTED IN MILLWORK. COORDINATE CONDUIT AND JUNCTION BOX LOCATIONS WITH MILLWORK CONTRACTOR.
7. EQUIPMENT COMBINATION STARTER AND DISCONNECT PROVIDED BY MANUFACTURER. EC TO INSTALL AND POWER STARTER/DISCONNECT FOR EQUIPMENT AS INDICATED. COORDINATE WITH MECHANICAL TRADES AND FINAL EQUIPMENT SUBMITTAL POWER REQUIREMENTS.
8. PROVIDE WALL MOUNTED JUNCTION BOX WITH FLEXIBLE CONDUIT FOR TABLE POWER. COORDINATE HEIGHT OF JUNCTION BOX WITH ARCHITECTURAL ELEVATIONS.
9. PROVIDE POWER FOR MONITOR. COORDINATE HEIGHT OF RECEPTACLES WITH ARCHITECTURAL ELEVATIONS AND WITHIN EXP2-SF03 CUTOUT AS REQUIRED.
10. PROVIDE GROUNDING FOR POOL AREA PER NEC ARTICLE 680.
11. PROVIDE FLOW AND TAMPER SWITCHES WHERE INDICATED. PROVIDE A MINIMUM OF 8 FLOW AND TAMPER SWITCHES (ONE PER EACH ZONE) LOCATED AT FIRE PUMP RISER. FINAL QUANTITIES AND LOCATIONS OF FLOW AND TAMPER SWITCHES SHALL BE DETERMINED BY THE FIRE ALARM CONTRACTOR, THE FIRE ALARM SUBMITTAL, FIRE PROTECTION DRAWINGS AND THE FIRE INSPECTOR.
12. LOCATE JUNCTION BOXES FOR AUTOMATIC DOORS ABOVE CEILING. OR OTHERWISE CONCEALED.
13. PROVIDE FLOOR TO CEILING 3/4" THICK FIRE RETARDANT PLYWOOD WHERE INDICATED.
14. EQUIPMENT DISCONNECT PROVIDED BY MANUFACTURER. EC TO PROVIDE POWER CONNECTION FOR EQUIPMENT AS INDICATED. COORDINATE INSTALLATION WITH MECHANICAL TRADES AND FINAL EQUIPMENT SUBMITTAL POWER REQUIREMENTS.
15. EMERGENCY POWER SHUTOFF FOR NATURAL GAS DOMESTIC WATER HEATERS. REFER TO DIAGRAM ON SHEET E601.
16. OWNER PROVIDED POOL LIFT. PROVIDE NEMA4X POOL RATED STAINLESS STEEL OR EQUAL HOUSING FOR ALL COMPONENTS. PROVIDE DISCONNECT AT POOL LIFT MOTOR AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. EC TO MAKE ALL ELECTRICAL CONNECTIONS.
17. REFER TO DETAIL ON E600 FOR JOCKEY PUMP AND FIRE PUMP WIRING DIAGRAM.
18. PROVIDE GFCI BREAKERS AT INACCESSIBLE RECEPTACLE LOCATIONS.
19. IDU IS FED FROM ODU ON ROOF. COORDINATE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AND MECHANICAL TRADES.
20. PROVIDE (2) 120V CIRCUITS FOR MECHANICAL CONTROLS. COORDINATE LOCATION OF MECHANICAL CONTROLS/BMS SYSTEM.
21. PROVIDE ISOLATED GROUND RECEPTACLES WHERE INDICATED. CONNECT TO ISOLATED GROUND BAR IN PANEL HR1A.
22. LOCATE DUCT SMOKE FOR ROOF TOP MECHANICAL EQUIPMENT QUANTITIES PER FIRE ALARM CONTRACTOR SUBMITTAL. DUCT SMOKES TO BE PROVIDED IN CONDITIONED SPACE WITHIN THE BUILDING WITH INDICTOR LIGHTS IN CORRIDOR CEILING.

POWER GENERAL NOTES

1. ALL RECEPTACLES ON EXTERIOR, IN KITCHEN, IN CONCESSION, IN LABORATORY, AND WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE READILY ACCESSIBLE GFCI TYPE RECEPTACLE.
2. REFER TO ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND IHG STANDARDS TO VERIFY LOCATION OF DEVICES.
3. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
4. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
5. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
6. RECEPTACLES INSTALLED IN ELEVATOR HOISTWAY(S), ELEVATOR MACHINE ROOM(S), CONTROL ROOM(S)/SPACE(S) SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFCI) WITH THE EXCEPTION OF A DEDICATED SINGLE PHASE RECEPTACLE SUPPLYING AN ELEVATOR PIT SUMP PUMP SHALL NOT BE A GFCI TYPE RECEPTACLE.
7. ALL BRANCH CIRCUITS THAT SUPPLY 125-V SINGLE PHASE, 15 AND 20 AMP OUTLETS TO BE INSTALLED IN GUEST ROOMS AND GUEST SUITES OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER; COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.

0 1/2" 1" 3"
ACCURATE WHEN PRINTED TO SCALE

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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICK TOWNSEND · 088076 · LICENSED PROFESSIONAL ENGINEER
04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES

Checked by :

Sheet Title : FIRST FLOOR POWER PLAN

Project No. : 2018.009

Sheet No. : E110

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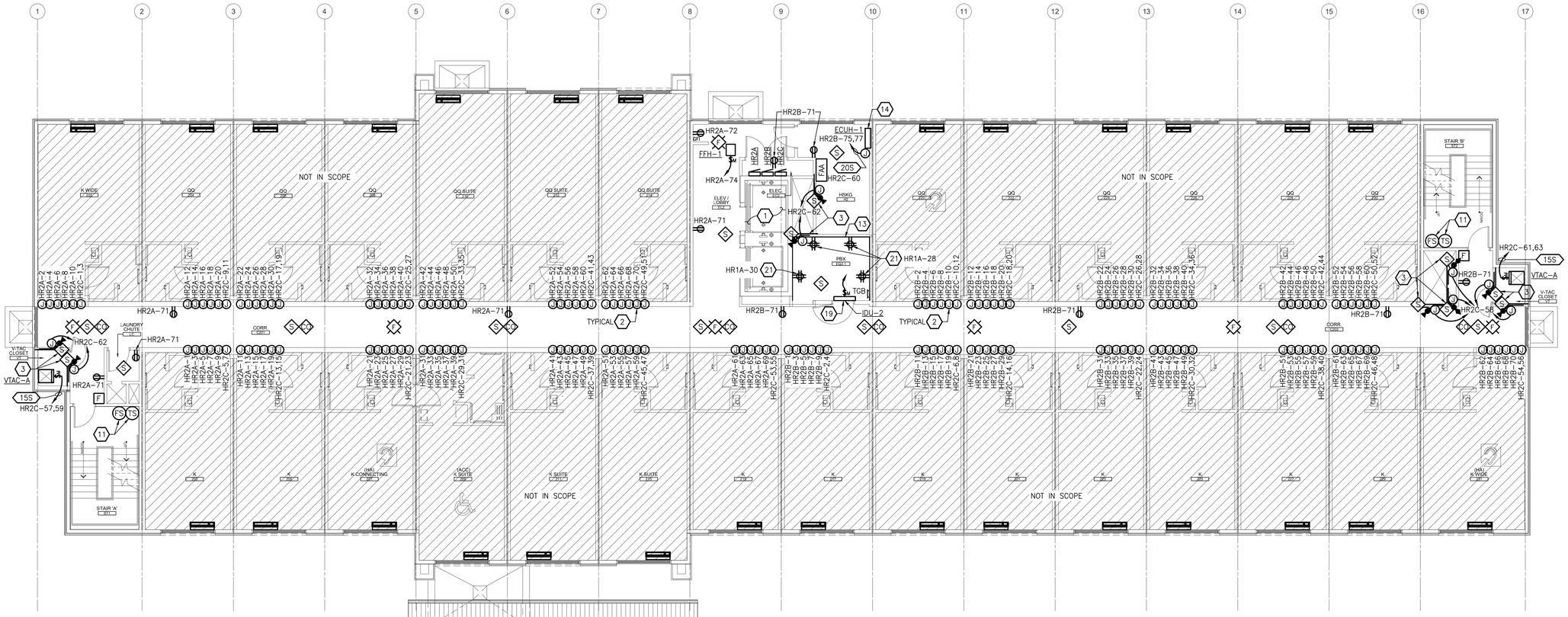

SECOND FLOOR POWER PLAN

SCALE:1/8" = 1'-0"

ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY SHEETS T000-T909 AND TA000-TA901 FOR FULL SCOPE OF BACKBOX AND PATHWAY WORK TO BE INCLUDED IN THEIR BID.

KEYED NOTES

1. REFER TO ELEVATOR DETAIL ON SHEET E600 FOR ADDITIONAL INFORMATION.
2. PROVIDE JUNCTION BOXES ABOVE CEILING FOR CONNECTIONS TO MODULAR HOTEL ROOM POWER CONNECTIONS. COORDINATE FINAL LOCATION IN FIELD WITH CHAMPION MODULES AND ARCHITECTURAL TRADES.
3. PROVIDE DUCT MOUNTED SMOKE DETECTOR AND POWER CONNECTION FOR MECHANICAL FIRE/SMOKE DAMPER. CIRCUIT AS INDICATED. COORDINATE FINAL INSTALLATION WITH FIRE ALARM CONTRACTOR AND MECHANICAL TRADES.
4. PROVIDE LEGRAND FLOOR BOX MODEL RFB4 WITH (2) DUPLEX RECEPTACLE BRACKETS. PROVIDE (1) 3/4"C FOR POWER. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUITS, CONDUIT SIZES, AND INTERNAL COMMUNICATION BRACKETS FOR EACH BOX. COORDINATE FINAL LOCATION AND FINISHES OF ALL FLOOR BOXES WITH ARCHITECTURAL TRADES AND OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
5. CONFIRM REQUIRED NEMA CONFIGURATION OF RECEPTACLE, FINAL CIRCUIT BREAKER SIZE, AND WIRE SIZE FOR WASHER OR DRYER RECEPTACLE WITH OWNER PRIOR TO INSTALL.
6. RECEPTACLES SHALL BE FED FROM UNDERGROUND AND MOUNTED IN MILLWORK. COORDINATE CONDUIT AND JUNCTION BOX LOCATIONS WITH MILLWORK CONTRACTOR.
7. EQUIPMENT COMBINATION STARTER AND DISCONNECT PROVIDED BY MANUFACTURER. EC TO INSTALL AND POWER STARTER/DISCONNECT FOR EQUIPMENT AS INDICATED. COORDINATE WITH MECHANICAL TRADES AND FINAL EQUIPMENT SUBMITTAL POWER REQUIREMENTS.
8. PROVIDE WALL MOUNTED JUNCTION BOX WITH FLEXIBLE CONDUIT FOR TABLE POWER. COORDINATE HEIGHT OF JUNCTION BOX WITH ARCHITECTURAL ELEVATIONS.
9. PROVIDE POWER FOR MONITOR. COORDINATE HEIGHT OF RECEPTACLES WITH ARCHITECTURAL ELEVATIONS AND WITHIN EXP2-SF03 CUTOUT AS REQUIRED.
10. PROVIDE GROUNDING FOR POOL AREA PER NEC ARTICLE 680.
11. PROVIDE FLOW AND TAMPER SWITCHES WHERE INDICATED. PROVIDE A MINIMUM OF 8 FLOW AND TAMPER SWITCHES (ONE PER EACH ZONE) LOCATED AT FIRE PUMP RISER. FINAL QUANTITIES AND LOCATIONS OF FLOW AND TAMPER SWITCHES SHALL BE DETERMINED BY THE FIRE ALARM CONTRACTOR, THE FIRE ALARM SUBMITTAL, FIRE PROTECTION DRAWINGS AND THE FIRE INSPECTOR.
12. LOCATE JUNCTION BOXES FOR AUTOMATIC DOORS ABOVE CEILING. OR OTHERWISE CONCEALED.
13. PROVIDE FLOOR TO CEILING 3/4" THICK FIRE RETARDANT PLYWOOD WHERE INDICATED.
14. EQUIPMENT DISCONNECT PROVIDED BY MANUFACTURER. EC TO PROVIDE POWER CONNECTION FOR EQUIPMENT AS INDICATED. COORDINATE INSTALLATION WITH MECHANICAL TRADES AND FINAL EQUIPMENT SUBMITTAL POWER REQUIREMENTS.
15. EMERGENCY POWER SHUTOFF FOR NATURAL GAS DOMESTIC WATER HEATERS. REFER TO DIAGRAM ON SHEET E601.
16. OWNER PROVIDED POOL LIFT. PROVIDE NEMA4X POOL RATED STAINLESS STEEL OR EQUAL HOUSING FOR ALL COMPONENTS. PROVIDE DISCONNECT AT POOL LIFT MOTOR AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. EC TO MAKE ALL ELECTRICAL CONNECTIONS.
17. REFER TO DETAIL ON E600 FOR JOCKEY PUMP AND FIRE PUMP WIRING DIAGRAM.
18. PROVIDE GFCI BREAKERS AT INACCESSIBLE RECEPTACLE LOCATIONS.
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3. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
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0 1/2" 1" 2"
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Drawn by :
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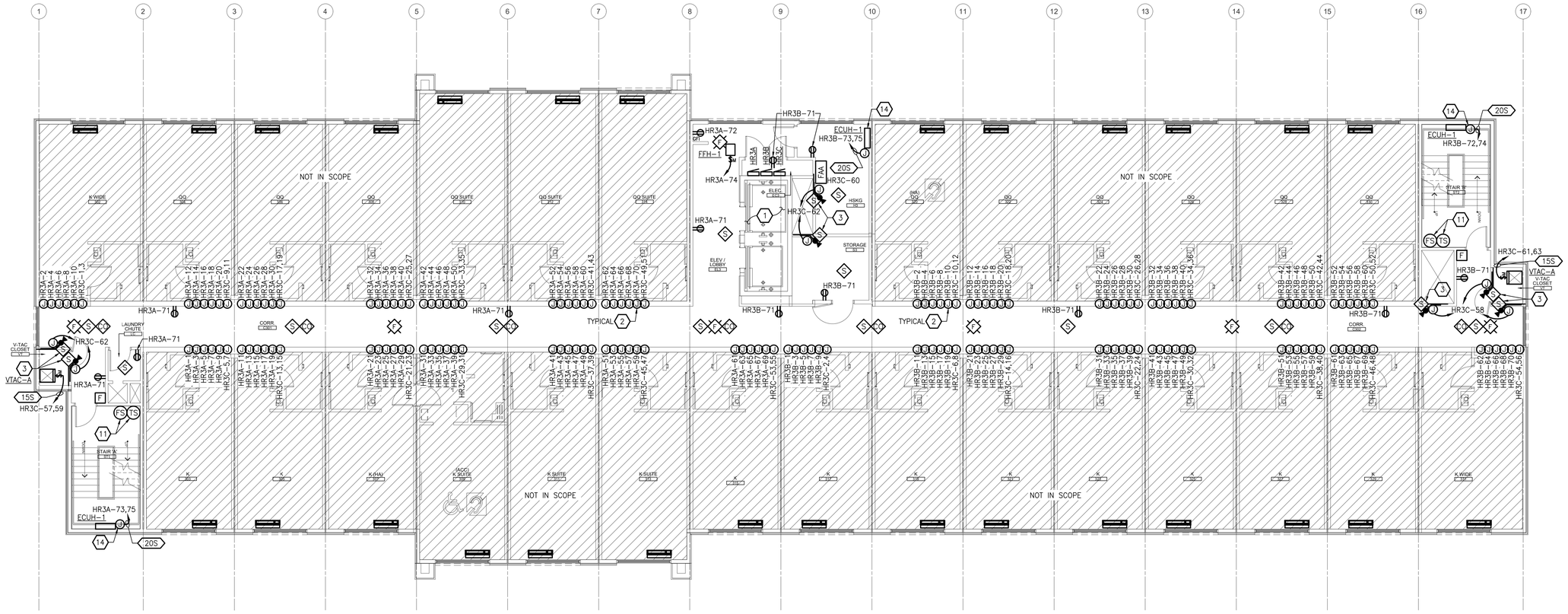
Checked by :

Sheet Title :
SECOND FLOOR
POWER PLAN

Project No. :
2018.009

Sheet No. :
E120



THIRD FLOOR POWER PLAN

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STATE OF NEW YORK · SAM TRICKEN TOWNSEND · 088078 · LICENSED PROFESSIONAL ENGINEER
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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
THIRD FLOOR POWER PLAN

Project No. :
2018.009

Sheet No. :
E130

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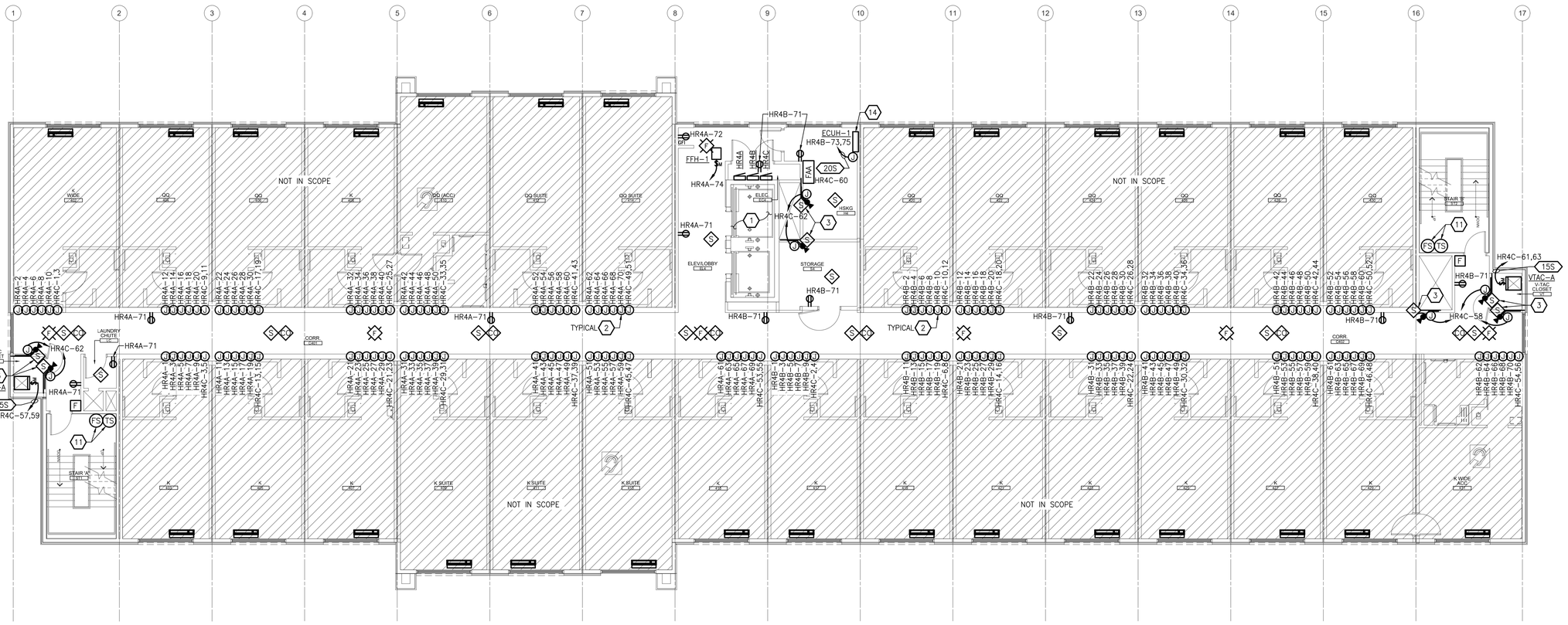

FOURTH FLOOR POWER PLAN

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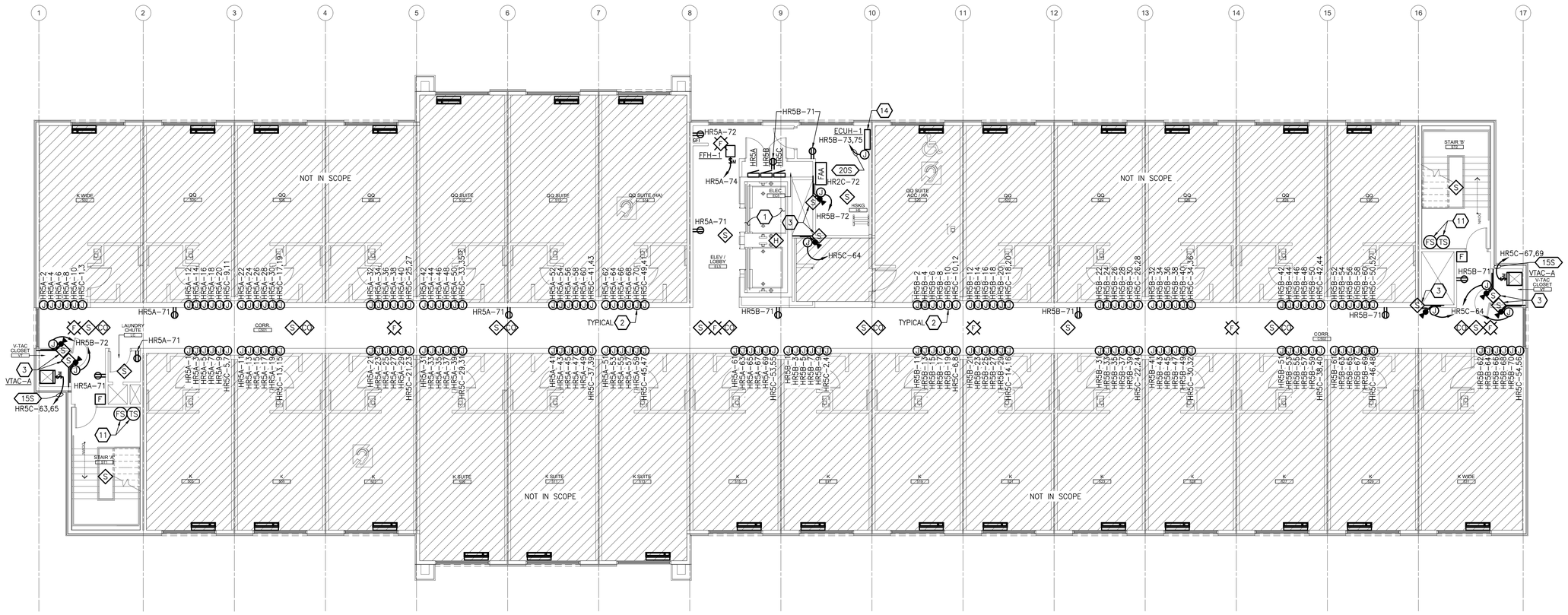

FIFTH FLOOR POWER PLAN

SCALE:1/8" = 1'-0"

ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY SHEETS T000-T909 AND TA000-TA901 FOR FULL SCOPE OF BACKBOX AND PATHWAY WORK TO BE INCLUDED IN THEIR BID.

KEYED NOTES

1. REFER TO ELEVATOR DETAIL ON SHEET E600 FOR ADDITIONAL INFORMATION.
2. PROVIDE JUNCTION BOXES ABOVE CEILING FOR CONNECTIONS TO MODULAR HOTEL ROOM POWER CONNECTIONS. COORDINATE FINAL LOCATION IN FIELD WITH CHAMPION MODULES AND ARCHITECTURAL TRADES.
3. PROVIDE DUCT MOUNTED SMOKE DETECTOR AND POWER CONNECTION FOR MECHANICAL FIRE/SMOKE DAMPER. CIRCUIT AS INDICATED. COORDINATE FINAL INSTALLATION WITH FIRE ALARM CONTRACTOR AND MECHANICAL TRADES.
4. PROVIDE LEGRAND FLOOR BOX MODEL RFB4 WITH (2) DUPLEX RECEPTACLE BRACKETS. PROVIDE (1) 3/4"C FOR POWER. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUITS, CONDUIT SIZES, AND INTERNAL COMMUNICATION BRACKETS FOR EACH BOX. COORDINATE FINAL LOCATION AND FINISHES OF ALL FLOOR BOXES WITH ARCHITECTURAL TRADES AND OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
5. CONFIRM REQUIRED NEMA CONFIGURATION OF RECEPTACLE, FINAL CIRCUIT BREAKER SIZE, AND WIRE SIZE FOR WASHER OR DRYER RECEPTACLE WITH OWNER PRIOR TO INSTALL.
6. RECEPTACLES SHALL BE FED FROM UNDERGROUND AND MOUNTED IN MILLWORK. COORDINATE CONDUIT AND JUNCTION BOX LOCATIONS WITH MILLWORK CONTRACTOR.
7. EQUIPMENT COMBINATION STARTER AND DISCONNECT PROVIDED BY MANUFACTURER. EC TO INSTALL AND POWER STARTER/DISCONNECT FOR EQUIPMENT AS INDICATED. COORDINATE WITH MECHANICAL TRADES AND FINAL EQUIPMENT SUBMITTAL POWER REQUIREMENTS.
8. PROVIDE WALL MOUNTED JUNCTION BOX WITH FLEXIBLE CONDUIT FOR TABLE POWER. COORDINATE HEIGHT OF JUNCTION BOX WITH ARCHITECTURAL ELEVATIONS.
9. PROVIDE POWER FOR MONITOR. COORDINATE HEIGHT OF RECEPTACLES WITH ARCHITECTURAL ELEVATIONS AND WITHIN EXP2-SF03 CUTOUT AS REQUIRED.
10. PROVIDE GROUNDING FOR POOL AREA PER NEC ARTICLE 680.
11. PROVIDE FLOW AND TAMPER SWITCHES WHERE INDICATED. PROVIDE A MINIMUM OF 8 FLOW AND TAMPER SWITCHES (ONE PER EACH ZONE) LOCATED AT FIRE PUMP RISER. FINAL QUANTITIES AND LOCATIONS OF FLOW AND TAMPER SWITCHES SHALL BE DETERMINED BY THE FIRE ALARM CONTRACTOR, THE FIRE ALARM SUBMITTAL, FIRE PROTECTION DRAWINGS AND THE FIRE INSPECTOR.
12. LOCATE JUNCTION BOXES FOR AUTOMATIC DOORS ABOVE CEILING. OR OTHERWISE CONCEALED.
13. PROVIDE FLOOR TO CEILING 3/4" THICK FIRE RETARDANT PLYWOOD WHERE INDICATED.
14. EQUIPMENT DISCONNECT PROVIDED BY MANUFACTURER. EC TO PROVIDE POWER CONNECTION FOR EQUIPMENT AS INDICATED. COORDINATE INSTALLATION WITH MECHANICAL TRADES AND FINAL EQUIPMENT SUBMITTAL POWER REQUIREMENTS.
15. EMERGENCY POWER SHUTOFF FOR NATURAL GAS DOMESTIC WATER HEATERS. REFER TO DIAGRAM ON SHEET E601.
16. OWNER PROVIDED POOL LIFT. PROVIDE NEMA4X POOL RATED STAINLESS STEEL OR EQUAL HOUSING FOR ALL COMPONENTS. PROVIDE DISCONNECT AT POOL LIFT MOTOR AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. EC TO MAKE ALL ELECTRICAL CONNECTIONS.
17. REFER TO DETAIL ON E600 FOR JOCKEY PUMP AND FIRE PUMP WIRING DIAGRAM.
18. PROVIDE GFCI BREAKERS AT INACCESSIBLE RECEPTACLE LOCATIONS.
19. IDU IS FED FROM ODU ON ROOF. COORDINATE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AND MECHANICAL TRADES.
20. PROVIDE (2) 120V CIRCUITS FOR MECHANICAL CONTROLS. COORDINATE LOCATION OF MECHANICAL CONTROLS/BMS SYSTEM.
21. PROVIDE ISOLATED GROUND RECEPTACLES WHERE INDICATED. CONNECT TO ISOLATED GROUND BAR IN PANEL HR1A.
22. LOCATE DUCT SMOKE FOR ROOF TOP MECHANICAL EQUIPMENT QUANTITIES PER FIRE ALARM CONTRACTOR SUBMITTAL. DUCT SMOKES TO BE PROVIDED IN CONDITIONED SPACE WITHIN THE BUILDING WITH INDICTOR LIGHTS IN CORRIDOR CEILING.

POWER GENERAL NOTES

1. ALL RECEPTACLES ON EXTERIOR, IN KITCHEN, IN CONCESSION, IN LABORATORY, AND WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE READILY ACCESSIBLE GFCI TYPE RECEPTACLE.
2. REFER TO ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND IHG STANDARDS TO VERIFY LOCATION OF DEVICES.
3. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
4. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
5. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
6. RECEPTACLES INSTALLED IN ELEVATOR HOISTWAY(S), ELEVATOR MACHINE ROOM(S), CONTROL ROOM(S)/SPACE(S) SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFCI) WITH THE EXCEPTION OF A DEDICATED SINGLE PHASE RECEPTACLE SUPPLYING AN ELEVATOR PIT SUMP PUMP SHALL NOT BE A GFCI TYPE RECEPTACLE.
7. ALL BRANCH CIRCUITS THAT SUPPLY 125-V SINGLE PHASE, 15 AND 20 AMP OUTLETS TO BE INSTALLED IN GUEST ROOMS AND GUEST SUITES OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER; COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.

0 1/2" 1" 2"
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ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOWNSEND · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

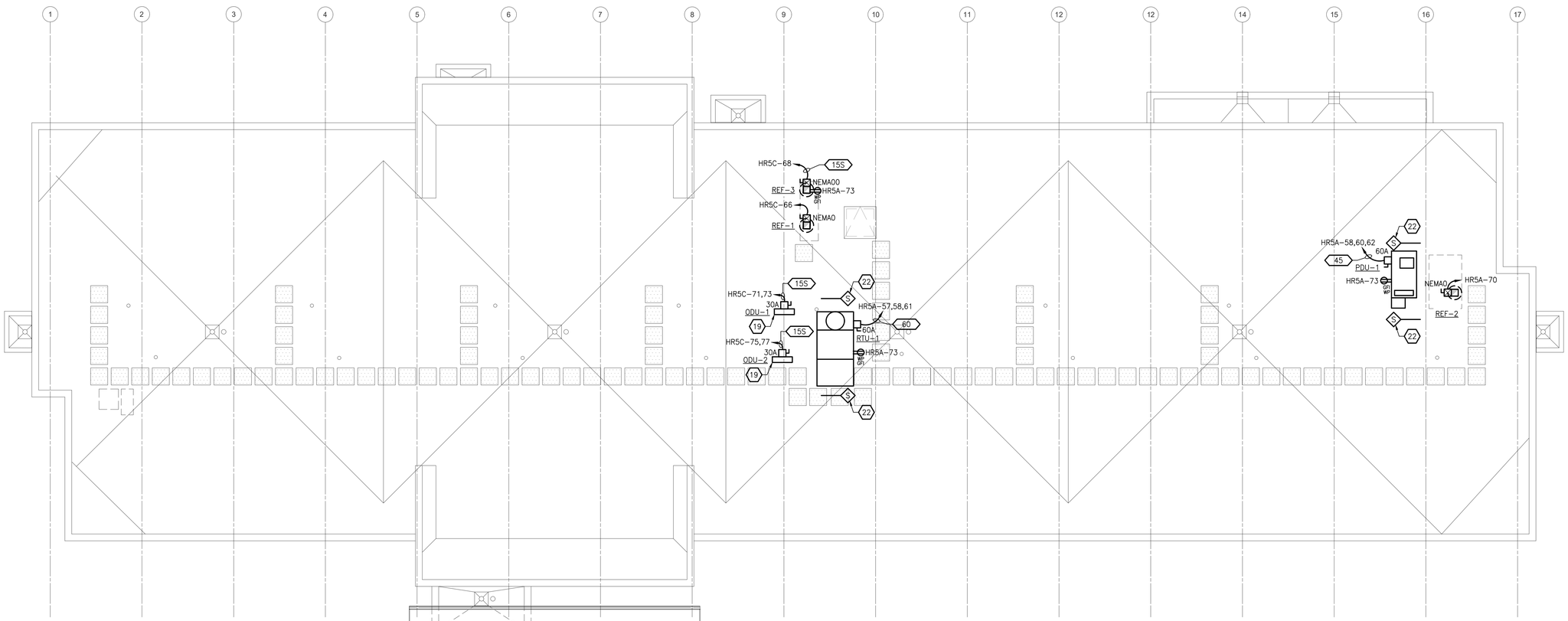
Drawn by :
SES

Checked by :

Sheet Title :
FIFTH FLOOR POWER PLAN

Project No. :
2018.009

Sheet No. :
E150



ROOF POWER PLAN

SCALE:1/8" = 1'-0"

ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY SHEETS T000-T909 AND TA000-TA901 FOR FULL SCOPE OF BACKBOX AND PATHWAY WORK TO BE INCLUDED IN THEIR BID.

KEYED NOTES

1. REFER TO ELEVATOR DETAIL ON SHEET E600 FOR ADDITIONAL INFORMATION.
2. PROVIDE JUNCTION BOXES ABOVE CEILING FOR CONNECTIONS TO MODULAR HOTEL ROOM POWER CONNECTIONS. COORDINATE FINAL LOCATION IN FIELD WITH CHAMPION MODULES AND ARCHITECTURAL TRADES.
3. PROVIDE DUCT MOUNTED SMOKE DETECTOR AND POWER CONNECTION FOR MECHANICAL FIRE/SMOKE DAMPER. CIRCUIT AS INDICATED. COORDINATE FINAL INSTALLATION WITH FIRE ALARM CONTRACTOR AND MECHANICAL TRADES.
4. PROVIDE LEGRAND FLOOR BOX MODEL RFB4 WITH (2) DUPLEX RECEPTACLE BRACKETS. PROVIDE (1) 3/4"C FOR POWER. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CONDUITS, CONDUIT SIZES, AND INTERNAL COMMUNICATION BRACKETS FOR EACH BOX. COORDINATE FINAL LOCATION AND FINISHES OF ALL FLOOR BOXES WITH ARCHITECTURAL TRADES AND OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
5. CONFIRM REQUIRED NEMA CONFIGURATION OF RECEPTACLE, FINAL CIRCUIT BREAKER SIZE, AND WIRE SIZE FOR WASHER OR DRYER RECEPTACLE WITH OWNER PRIOR TO INSTALL.
6. RECEPTACLES SHALL BE FED FROM UNDERGROUND AND MOUNTED IN MILLWORK. COORDINATE CONDUIT AND JUNCTION BOX LOCATIONS WITH MILLWORK CONTRACTOR.
7. EQUIPMENT COMBINATION STARTER AND DISCONNECT PROVIDED BY MANUFACTURER. EC TO INSTALL AND POWER STARTER/DISCONNECT FOR EQUIPMENT AS INDICATED. COORDINATE WITH MECHANICAL TRADES AND FINAL EQUIPMENT SUBMITTAL POWER REQUIREMENTS.
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9. PROVIDE POWER FOR MONITOR. COORDINATE HEIGHT OF RECEPTACLES WITH ARCHITECTURAL ELEVATIONS AND WITHIN EXP2-SF03 CUTOUT AS REQUIRED.
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0 1/2" 1" 2"
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ROCKLAND COUNTY, NY
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Issued for :
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04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
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Checked by :

Sheet Title :
ROOF POWER PLAN

Project No. :
2018.009

Sheet No. :
E160

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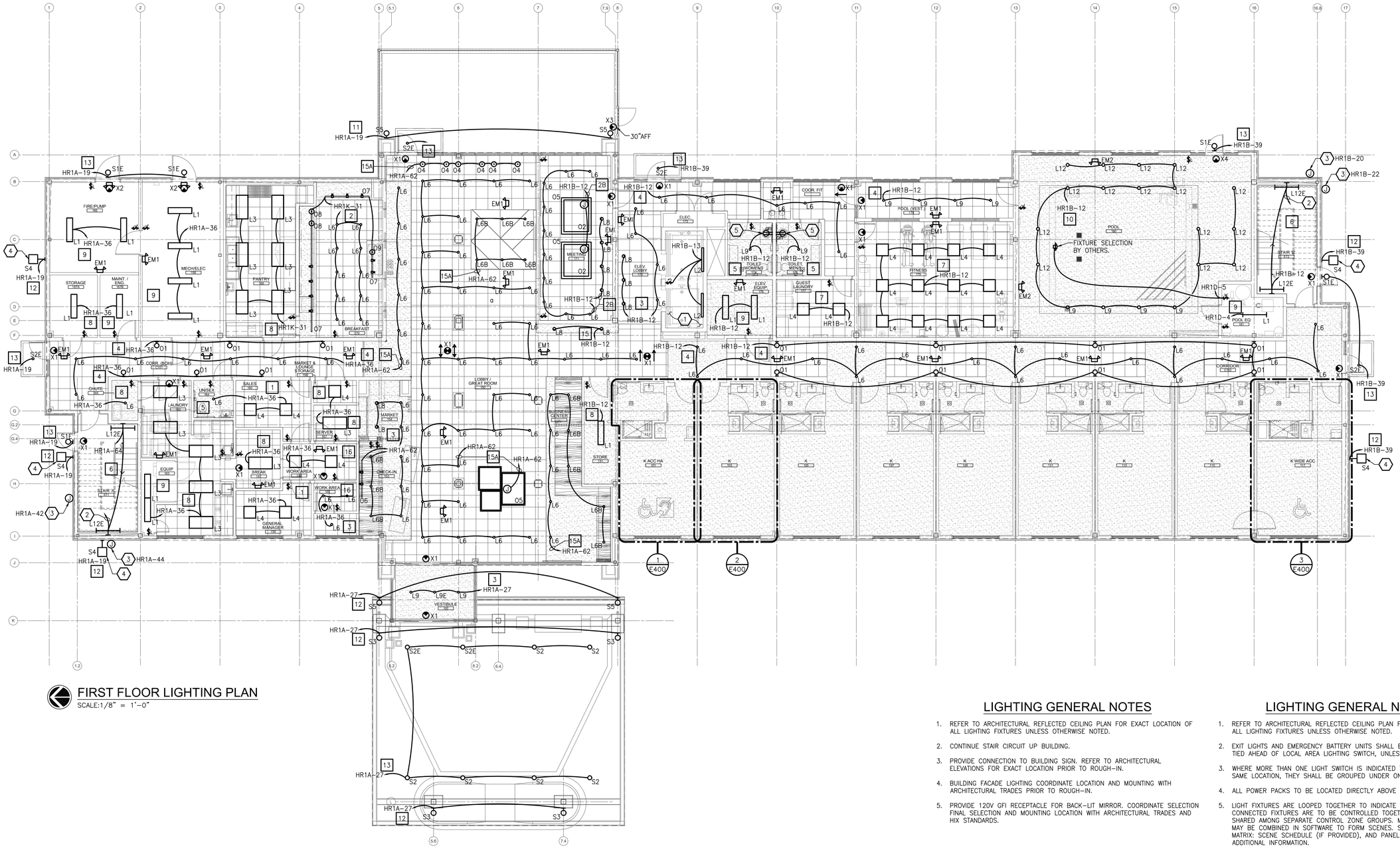

FIRST FLOOR LIGHTING PLAN

SCALE:1/8" = 1'-0"

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. CONTINUE STAIR CIRCUIT UP BUILDING.
3. PROVIDE CONNECTION TO BUILDING SIGN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
4. BUILDING FACADE LIGHTING COORDINATE LOCATION AND MOUNTING WITH ARCHITECTURAL TRADES PRIOR TO ROUGH-IN.
5. PROVIDE 120V GFI RECEPTACLE FOR BACK-LIT MIRROR. COORDINATE SELECTION FINAL SELECTION AND MOUNTING LOCATION WITH ARCHITECTURAL TRADES AND HIX STANDARDS.

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
3. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
4. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
5. LIGHT FIXTURES ARE LOOPED TOGETHER TO INDICATE CONTROL ZONE GROUPS. CONNECTED FIXTURES ARE TO BE CONTROLLED TOGETHER. CIRCUITS MAY BE SHARED AMONG SEPARATE CONTROL ZONE GROUPS. MULTIPLE ZONES ZONES MAY BE COMBINED IN SOFTWARE TO FORM SCENES. SEE LIGHTING CONTROL MATRIX: SCENE SCHEDULE (IF PROVIDED), AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.

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Project :

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ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
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Issued for :

BIDS/PERMITS 04.30.21

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
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Checked by :

Sheet Title :
FIRST FLOOR
LIGHTING PLAN

Project No. :
2018.009

Sheet No. :
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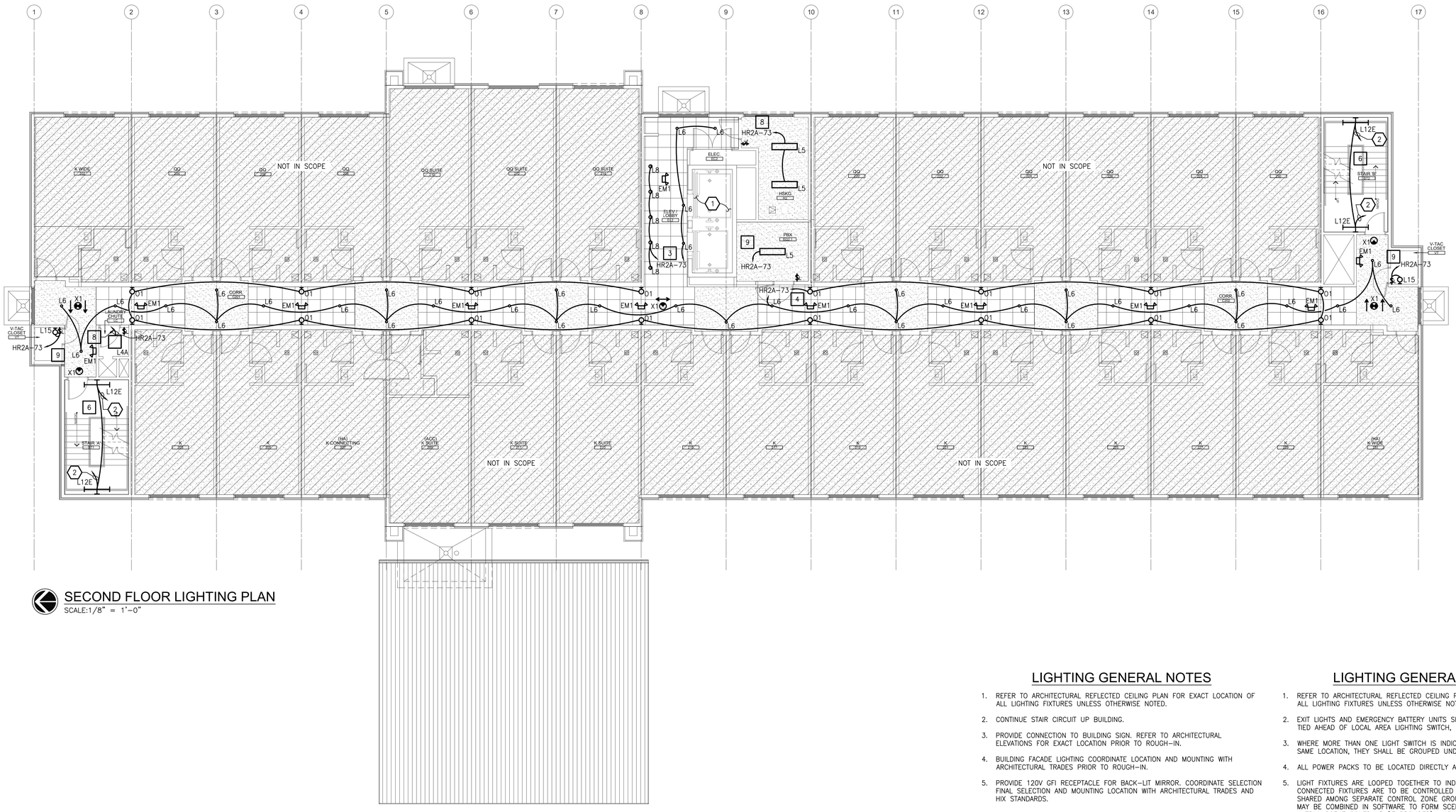

SECOND FLOOR LIGHTING PLAN

SCALE:1/8" = 1'-0"

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. CONTINUE STAIR CIRCUIT UP BUILDING.
3. PROVIDE CONNECTION TO BUILDING SIGN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
4. BUILDING FACADE LIGHTING COORDINATE LOCATION AND MOUNTING WITH ARCHITECTURAL TRADES PRIOR TO ROUGH-IN.
5. PROVIDE 120V GFI RECEPTACLE FOR BACK-LIT MIRROR. COORDINATE SELECTION FINAL SELECTION AND MOUNTING LOCATION WITH ARCHITECTURAL TRADES AND HIX STANDARDS.

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
3. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
4. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
5. LIGHT FIXTURES ARE LOOPED TOGETHER TO INDICATE CONTROL ZONE GROUPS. CONNECTED FIXTURES ARE TO BE CONTROLLED TOGETHER. CIRCUITS MAY BE SHARED AMONG SEPARATE CONTROL ZONE GROUPS. MULTIPLE ZONES ZONES MAY BE COMBINED IN SOFTWARE TO FORM SCENES. SEE LIGHTING CONTROL MATRIX: SCENE SCHEDULE (IF PROVIDED), AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.

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04/30/2021

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LOCATION: 19180
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PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
SECOND FLOOR LIGHTING PLAN

Project No. :
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Sheet No. :
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THIRD FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. CONTINUE STAIR CIRCUIT UP BUILDING.
3. PROVIDE CONNECTION TO BUILDING SIGN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
4. BUILDING FACADE LIGHTING COORDINATE LOCATION AND MOUNTING WITH ARCHITECTURAL TRADES PRIOR TO ROUGH-IN.
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3. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
4. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
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Issued for :

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STATE OF NEW YORK · PATRICK TOWNSEND · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
THIRD FLOOR
LIGHTING PLAN

Project No. :
2018.009

Sheet No. :
E230

FOURTH FLOOR LIGHTING PLAN

SCALE:1/8" = 1'-0"

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. CONTINUE STAIR CIRCUIT UP BUILDING.
3. PROVIDE CONNECTION TO BUILDING SIGN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
4. BUILDING FACADE LIGHTING COORDINATE LOCATION AND MOUNTING WITH ARCHITECTURAL TRADES PRIOR TO ROUGH-IN.
5. PROVIDE 120V GFI RECEPTACLE FOR BACK-LIT MIRROR. COORDINATE SELECTION FINAL SELECTION AND MOUNTING LOCATION WITH ARCHITECTURAL TRADES AND HIX STANDARDS.

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
3. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
4. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
5. LIGHT FIXTURES ARE LOOPED TOGETHER TO INDICATE CONTROL ZONE GROUPS. CONNECTED FIXTURES ARE TO BE CONTROLLED TOGETHER. CIRCUITS MAY BE SHARED AMONG SEPARATE CONTROL ZONE GROUPS. MULTIPLE ZONES ZONES MAY BE COMBINED IN SOFTWARE TO FORM SCENES. SEE LIGHTING CONTROL MATRIX: SCENE SCHEDULE (IF PROVIDED), AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.

0 1/2" 1" 2"
ACCURATE WHEN PRINTED TO SCALE

SVA
STUCKY VITALE ARCHITECTS
27172 WOODWARD AVENUE
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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
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Sheet Title :
FOURTH FLOOR LIGHTING PLAN

Project No. :
2018.009

Sheet No. :
E240

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FIFTH FLOOR LIGHTING PLAN

SCALE:1/8" = 1'-0"

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. CONTINUE STAIR CIRCUIT UP BUILDING.
3. PROVIDE CONNECTION TO BUILDING SIGN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
4. BUILDING FACADE LIGHTING COORDINATE LOCATION AND MOUNTING WITH ARCHITECTURAL TRADES PRIOR TO ROUGH-IN.
5. PROVIDE 120V GFI RECEPTACLE FOR BACK-LIT MIRROR. COORDINATE SELECTION FINAL SELECTION AND MOUNTING LOCATION WITH ARCHITECTURAL TRADES AND HIX STANDARDS.

LIGHTING GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
3. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
4. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
5. LIGHT FIXTURES ARE LOOPED TOGETHER TO INDICATE CONTROL ZONE GROUPS. CONNECTED FIXTURES ARE TO BE CONTROLLED TOGETHER. CIRCUITS MAY BE SHARED AMONG SEPARATE CONTROL ZONE GROUPS. MULTIPLE ZONES ZONES MAY BE COMBINED IN SOFTWARE TO FORM SCENES. SEE LIGHTING CONTROL MATRIX: SCENE SCHEDULE (IF PROVIDED), AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.

0 1/2" 1" 2"
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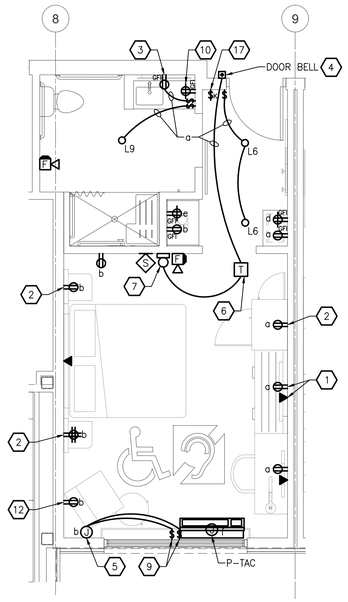
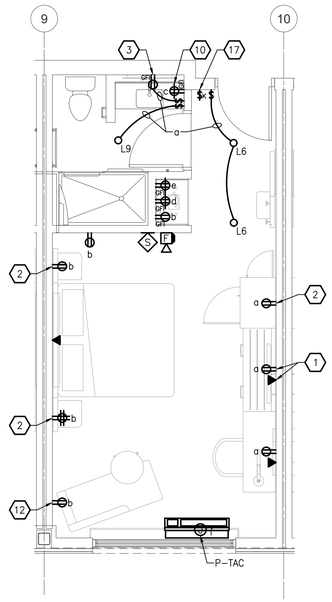
Sheet Title :
FIFTH FLOOR
LIGHTING PLAN

Project No. :
2018.009

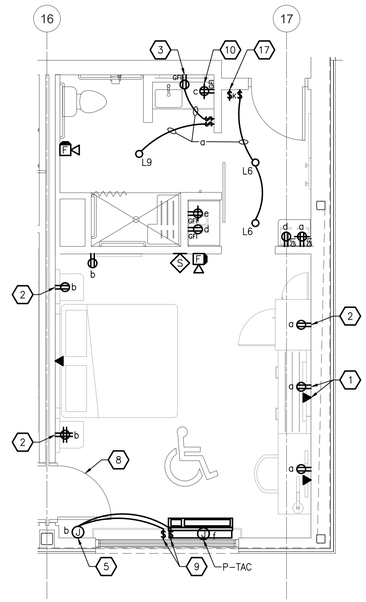
Sheet No. :
E250



1 ENLARGED KING ACCESSIBLE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED KING ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



3 ENLARGED KING WIDE ACCESSIBLE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

TYPICAL HOTEL ROOM CIRCUITING
a - RECEPTACLES/LIGHTING
b - RECEPTACLES/LIGHTING
c - BATHROOM
d - COFFEE MAKER
e - MICROWAVE
f - P-TAC

ALL POWER, DATA, AND AUXILIARY DEVICE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS AND IHG DESIGN GUIDELINES.

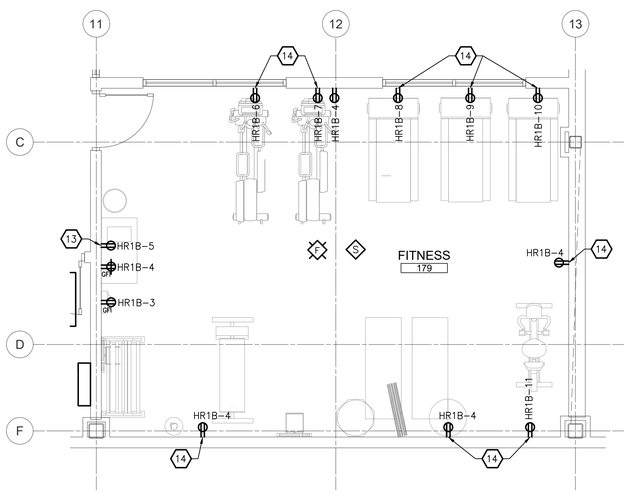
ELECTRICAL GENERAL NOTES

1. ALL RECEPTACLES ON EXTERIOR, IN KITCHEN, IN CONCESSION, IN LABORATORY, AND WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE READILY ACCESSIBLE GFCI TYPE RECEPTACLE.
2. REFER TO ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND IHG STANDARDS TO VERIFY LOCATION OF DEVICES.
3. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
4. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
5. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
6. RECEPTACLES INSTALLED IN ELEVATOR HOISTWAY(S), ELEVATOR MACHINE ROOM(S), CONTROL ROOM(S)/SPACE(S) SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFCI) WITH THE EXCEPTION OF A DEDICATED SINGLE PHASE RECEPTACLE SUPPLYING AN ELEVATOR PIT SUMP PUMP SHALL NOT BE A GFCI TYPE RECEPTACLE.
7. ALL BRANCH CIRCUITS THAT SUPPLY 125-V SINGLE PHASE, 15 AND 20 AMP OUTLETS TO BE INSTALLED IN HOTEL ROOMS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER; COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
9. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
10. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
11. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
12. LIGHT FIXTURES ARE LOOPED TOGETHER TO INDICATE CONTROL ZONE GROUPS. CONNECTED FIXTURES ARE TO BE CONTROLLED TOGETHER. CIRCUITS MAY BE SHARED AMONG SEPARATE CONTROL ZONE GROUPS. MULTIPLE ZONES ZONES MAY BE COMBINED IN SOFTWARE TO FORM SCENES. SEE LIGHTING CONTROL MATRIX: SCENE SCHEDULE (IF PROVIDED), AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
13. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.

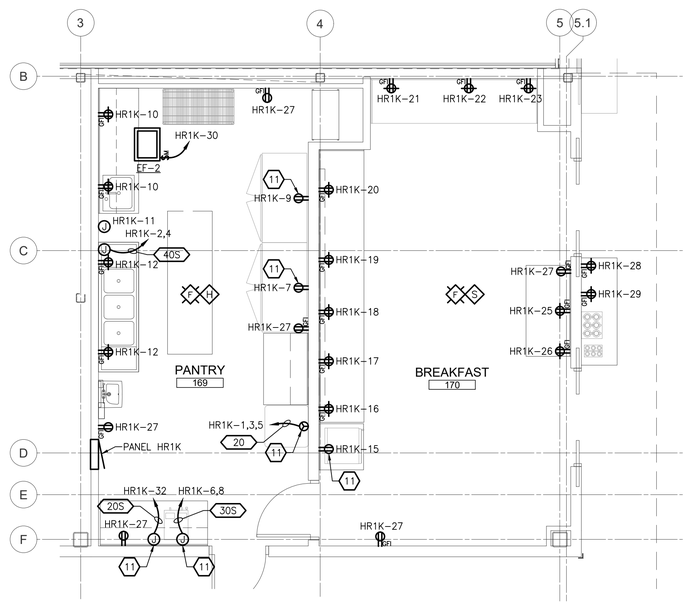
KEYED NOTES

1. VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT ELEVATIONS FOR T.V..
2. PROVIDE FFE MILLWORK-MOUNTED FIXTURE, PLUGGED INTO OUTLET BEHIND REMOVABLE PANEL.
3. PROVIDE SWITCHED GFI OUTLET TO BRAND APPROVED LIT-MIRROR. MIRROR IS OWNER PROVIDED, ELECTRICAL CONTRACTOR INSTALLED. REFER TO ARCHITECTURAL PLANS FOR MIRROR FINAL SELECTION AND LOCATION.
4. PROVIDE DOORBELL IN HEARING IMPAIRED ROOMS ONLY. REFER TO ARCHITECTURAL DRAWINGS. PROVIDE A SURFACE MOUNT LOW VOLTAGE ILLUMINATED DOOR BELL EQUAL TO EDWARDS #630L. COLOR SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 48" AFF.
5. PROVIDE HARDWIRED CONNECTION FOR ROLLER SHADE IN ACCSIBLE ROOMS ONLY. PROVIDE WIRING FOR TWO CONNECTIONS; ONE FOR THE SHEER ROLLER AND ONE FOR THE BLACKOUT-ROLLER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
6. PROVIDE A 120 TO 24V TRANSFORMER FOR DOORBELL & HORN/STROBE IN HEARING IMPAIRED ROOMS ONLY. TRANSFORMER EQUAL TO EDWARDS #592. MOUNT ABOVE CORRIDOR CEILING WHERE ACCESSIBLE.
7. PROVIDE A FLUSH MOUNTED HORN/STROBE FOR VISUAL AND AUDIBLE NOTIFICATION OF DOOR BELL IN HEARING IMPAIRED ROOMS ONLY. DEVICE TO BE EQUAL TO EDWARDS #867STR, 24 VOLT. STROBE COLOR (OTHER THAN RED), SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 90 INCHES AFF.
8. ROOMS WITH ACCESS DOORS TO ADJACENT ROOMS SHALL NOT HAVE WALL MOUNTED LIGHT FIXTURE WITH ALIGNED RECEPTACLE.
9. PROVIDE TWO LEVITON 5657-2W SWITCHES FOR ROLLER SHADES. PROVIDE ONLY IN ACCESSIBLE ROOMS.
10. PROVIDE BRAND-APPROVED NIGHTLIGHT ON THIS WALL, INTEGRAL TO EITHER SWITCH OR GFI OUTLET. REFER TO DESIGN CONNECT FOR CURRENT LIST OF BRAND APPROVED DEVICES. PROVIDE OCCUPANCY SENSING SWITCH WHERE REQUIRED BY CODE.
11. PROVIDE GFCI BREAKERS AT INACCESSIBLE RECEPTACLE LOCATIONS AND HARDWIRED CONNECTIONS.
12. VERTICALLY ALIGN RECEPTACLE WITH OWNER PROVIDED, ELECTRICAL CONTRACTOR INSTALLED LIGHT SCONCE. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SPECIFICATION AND LOCATION.
13. PROVIDE POWER FOR MONITOR. COORDINATE HEIGHT OF RECEPTACLES WITH ARCHITECTURAL ELEVATIONS.
14. MOUNT RECEPTACLES HORIZONTALLY ALONG THE WALL BASEBOARD. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
15. IDU-1 IS FED FROM ODU-1 ON ROOF. COORDINATE WITH MANUFACTURE'S INSTALLATION INSTRUCTIONS AND MECHANICAL TRADES.
16. REFER TO ELEVATOR DETAIL ON SHEET E600 FOR ADDITIONAL INFORMATION.
17. MASTER KEY SYSTEM TO BE SELECTED BY OWNER IN CONJUNCTION WITH HOLIDAY INN TECHNOLOGY CONSULTANT. ELECTRICAL CONTRACTOR TO COORDINATE FINAL SYSTEM REQUIREMENTS PRIOR TO INSTALL.
18. EXTENT OF PANEL CIRCUITING TO BE CONFIRMED WITH FINAL POOL CONSULTANT DRAWINGS.

TECHNOLOGY OUTLETS SHOWN FOR COORDINATION PURPOSES IN GUESTROOMS ONLY. ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY SHEETS T000-T909 AND TA000-TA901 FOR FULL SCOPE OF BACKBOX AND PATHWAY WORK TO BE INCLUDED IN THEIR BID



4 ENLARGED ELECTRICAL PLANS
SCALE:1/4" = 1'-0"



5 ENLARGED ELECTRICAL PLANS
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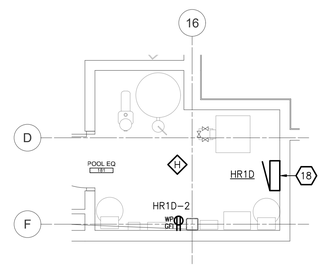
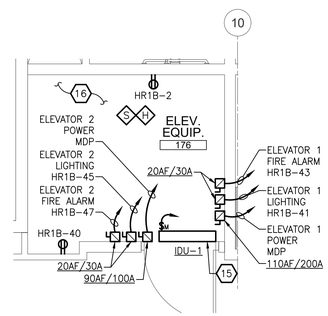


7 ENLARED POOL EQ RM
SCALE:1/4" = 1'-0"



6 ENLARGED ELEVATOR MACHINE ROOM
SCALE:1/4" = 1'-0"

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Drawn by : SES
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Sheet Title : ENLARGED ELECTRICAL PLANS

Project No. : 2018.009

Sheet No. : E400

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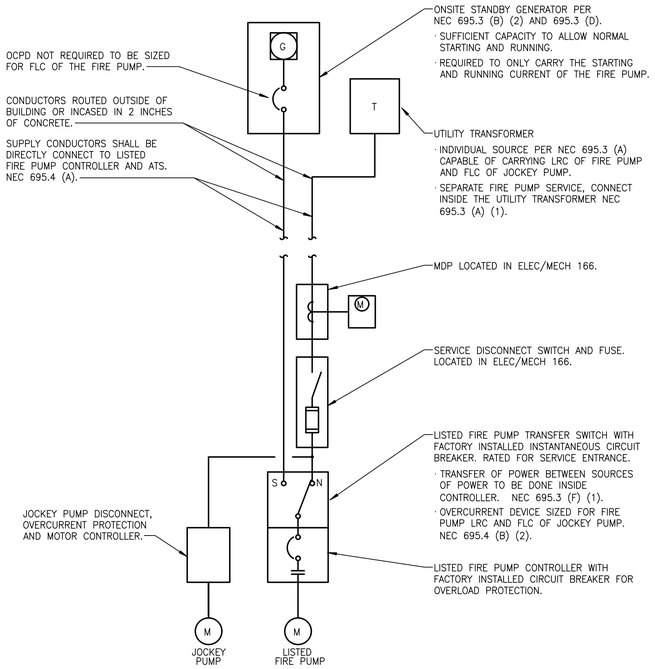

FIRE PUMP/JOCKEY PUMP DIAGRAM

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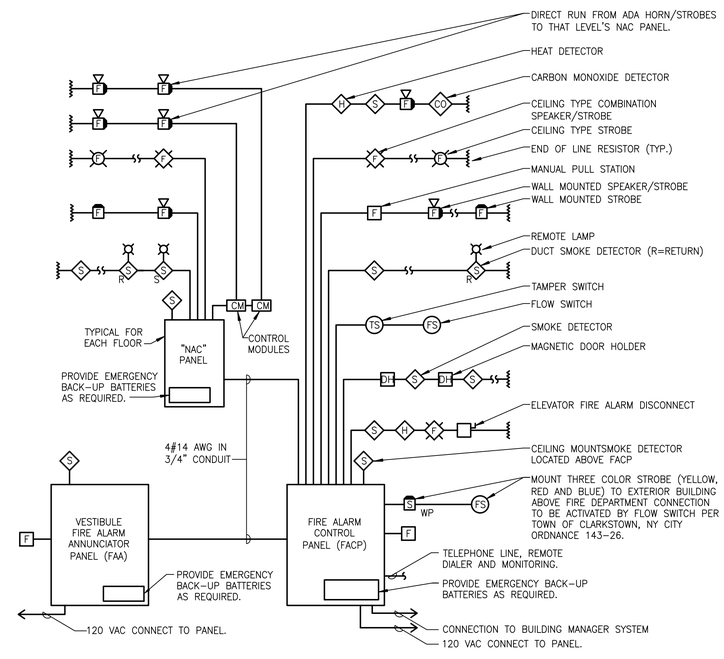

NOTE:
REFER TO PLANS FOR LOCATIONS OF SIGNAL DEVICES.

FIRE ALARM RISER

NO SCALE

FIRE ALARM RISER GENERAL NOTES

1. FOR FIRE ALARM EQUIPMENT SPECIFICATION AND ADDITIONAL REQUIREMENTS, SEE SPECIFICATIONS.
2. ALL DUCT DETECTORS SHALL BE WIRED TO ACTIVATE SUPERVISORY ALARM SYSTEM AND SHUT DOWN FAN. PROVIDE INDICATOR LIGHT WHERE SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS OR ARE MORE THAN 10FT ABOVE THE FINISHED FLOOR.
3. ALL ROOMS, ALL AUDIO AND VISUAL RATINGS SHALL MEET OR EXCEED NFPA REQUIREMENTS. MINOR DEVIATIONS SUCH AS STROBE RATING, MISSING OF AUDIO/VISUAL UNITS, SMOKE DETECTORS UNITS, DUCT SMOKE DAMPERS, CONTROL MODULES, FLOW AND TAMPER SWITCHES, ETC (MAX OF 10) SHALL BE INCLUDED.
4. PROVIDE REMOTE POWER SUPPLIES AS REQUIRED FOR NOTIFICATION APPLIANCE CIRCUITS, NOT TO EXCEED 80% OF CAPACITY.
5. PROVIDE SMOKE DETECTOR ABOVE EACH REMOTE POWER SUPPLY PANEL, FACP, NAC AND ANNUNICATORS.
6. PROVIDE BATTERY, CURRENT LOAD AND VOLTAGE DROP CALCULATIONS PER SPECIFICATIONS.
7. PROVIDE UL RATED CAULK SEALANT AROUND ALL PIPES & CONDUITS IN MASONRY AND DRYWALL WALLS.
8. ALL FIRE ALARM WIRING SHALL BE MINIMUM #18 AWG AND IN CONDUIT MIN 3/4" IN EXPOSED CEILING AREAS, CABLE IS ACCEPTABLE ABOVE LAY-IN CEILINGS IN J-HOOKS.
9. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHARGES INVOLVED IN OBTAINING APPROVAL AND CERTIFICATION FROM A.H.J. FOR A COMPLETE SYSTEM. CERTIFIED CONTRACTOR TO PAY ALL FEES REQUIRED.
10. THE ELEVATION DIAGRAM IS FOR REFERENCE PURPOSES ONLY. EXACT QUANTITIES OF DEVICES AND LOCATIONS SHALL COMPLY WITH NFPA GUIDELINES AND MEET APPROVAL OF THE STATE ELECTRICAL INSPECTOR. FIRE ALARM CONTRACTOR SHALL HAVE SHOP DRAWINGS APPROVED BY THE A.H.J. PRIOR TO COMMENCEMENT OF WORK.
11. FOR FIRE ALARM SYMBOL LEGEND SEE DRAWING INFO E001.
12. FIRE ALARM VENDOR TO SIZE ALL AMPLIFIERS.
13. FIRE ALARM VENDOR AND ELECTRICAL CONTRACTOR TO PROVIDE AUDIO SIGNAL FOR SPEAKERS.
14. FIRE ALARM VENDOR TO PROVIDE INSTALLATION DRAWINGS AS PART OF SUBMITTALS.
15. THE FIRE ALARM SYSTEM SHOWN ON THE DRAWINGS AND SPECIFICATIONS ARE A PERFORMANCE SPECIFICATION SYSTEM WITH DEVICE LOCATIONS. FIRE ALARM VENDOR AND CONTRACTOR MUST PROVIDE A COMPLETE SYSTEM PER CODE.
16. ALL STROBES SHALL BE SYNCHRONIZED.
17. FIRE ALARM PANEL SHALL MONITOR POWERED EXHAUST FANS SUPPLIED BY THE GENERATOR.
18. PROVIDE 1 YEAR OF OFFSITE MONITORING SERVICE.
19. DWELLING UNIT SMOKE DETECTORS SHALL BE MONITORED BY THE FIRE ALARM CONTROL PANEL. IF DETECTORS TRIP, THEY SHALL INITIATE SUPERVISORY ALARM IN THE UNIT AND NOT THE WHOLE BUILDING.
20. COLOR OF DEVICES SHALL BE WHITE PER OWNER STANDARDS.
21. ADA UNITS REQUIRE A STROBE IN ALL BEDROOM, BATHROOM AND COMMON AREAS. ADA UNIT STROBES REQUIRES A DEDICATED WIRE TO THE NAC PANEL OF THAT LEVEL OR CLOSEST POWER SUPPLY.

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Sheet Title :
ELECTRICAL DETAILS

Project No. :
2018.009

Sheet No. :
E500

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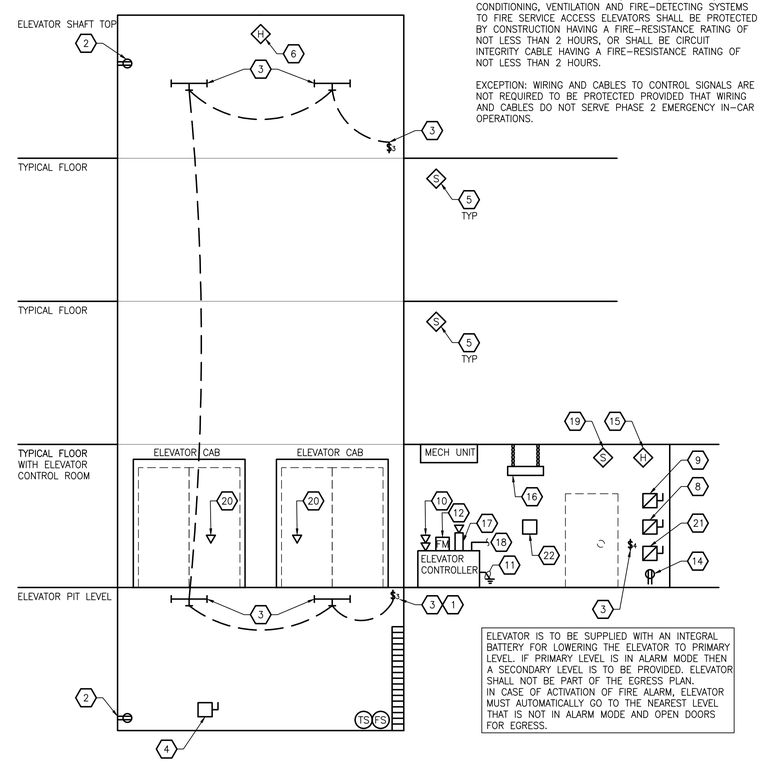
ELEVATOR GENERAL NOTES

WIRES OR CABLES THAT ARE LOCATED OUTSIDE OF THE ELEVATOR HOISTWAY AND MACHINE ROOM AND THAT PROVIDE NORMAL OR STANDBY POWER, CONTROL SIGNALS, COMMUNICATION WITH THE CAR, LIGHTING, HEATING, AIR CONDITIONING, VENTILATION AND FIRE-DETECTING SYSTEMS TO FIRE SERVICE ACCESS ELEVATORS SHALL BE PROTECTED BY CONSTRUCTION HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS, OR SHALL BE CIRCUIT INTEGRITY CABLE HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS.

EXCEPTION: WIRING AND CABLES TO CONTROL SIGNALS ARE NOT REQUIRED TO BE PROTECTED PROVIDED THAT WIRING AND CABLES DO NOT SERVE PHASE 2 EMERGENCY IN-CAR OPERATIONS.



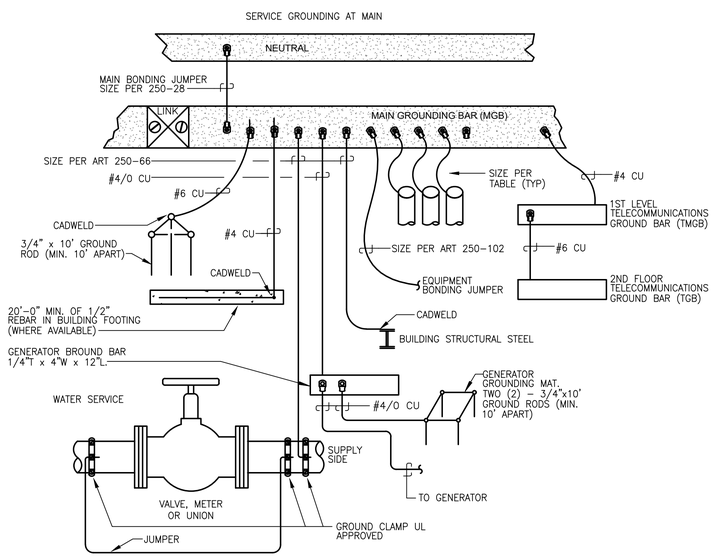
ELEVATOR IS TO BE SUPPLIED WITH AN INTEGRAL BATTERY FOR LOWERING THE ELEVATOR TO PRIMARY LEVEL. IF PRIMARY LEVEL IS IN ALARM MODE THEN A SECONDARY LEVEL IS TO BE PROVIDED. ELEVATOR SHALL NOT BE PART OF THE EGRESS PLAN. IN CASE OF ACTIVATION OF FIRE ALARM, ELEVATOR MUST AUTOMATICALLY GO TO THE NEAREST LEVEL THAT IS NOT IN ALARM MODE AND OPEN DOORS FOR EGRESS.

ELEVATOR ELECTRICAL REQUIREMENTS

NO SCALE

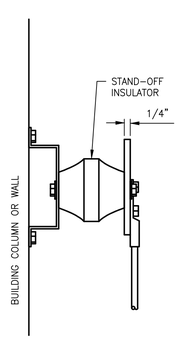
KEYED NOTES:

1. MOUNT LIGHT SWITCH 42" ABOVE SILL OR SEAL PLATE ADJACENT TO PIT LADDER.
2. PROVIDE 120V 20A WEATHERPROOF GFCI RECEPTACLE IN ELEVATOR PIT AND AT TOP OF SHAFT. ELEVATOR RECEPTACLES AND PIT LIGHT SHALL BE ON A DEDICATED CIRCUIT.
3. PROVIDE 4 FOOT LENSED AND GASKETED LIGHT IN ELEVATOR PIT AND TOP OF SHAFT. LOCATION OF LIGHT FIXTURE TO BE APPROVED BY ELEVATOR INSTALLER. ELEVATOR PIT RECEPTACLE AND PIT LIGHT SHALL BE ON A DEDICATED CIRCUIT. PROVIDE A 3-WAY SWITCH AT AT TOP AND BOTTOM LEVELS, AND A 4-WAY SWITCH IN ELEVATOR MACHINE ROOM. PROVIDE LABEL ON ELEVATOR MACHINE ROOM SWITCH.
4. PROVIDE CONNECTION AND/OR DISCONNECT TO ELEVATOR PIT SUMP PUMP. CARD AND PLUG OR HARDWIRED DISCONNECT SWITCH.
5. ELEVATOR LOBBY SMOKE DETECTOR. LOCATE ON THE CEILING WITHIN 21 FEET OF THE CENTERLINE OF EACH ELEVATOR DOOR WITHIN THE ELEVATOR BANK UNDER CONTROL OF THE DETECTOR. SMOKE DETECTOR SHALL COMMUNICATE THROUGH THE F.A.C.P. TO THE ELEVATOR CONTROLLER TO INITIATE FIRE RECALL FUNCTION UPON ACTIVATION.
6. PROVIDE SHAFT HEAT DETECTOR ONLY WHEN FIRE PROTECTION SPINKLERS(S) ARE PROVIDED. HEAT DETECTOR TEMPERATURE ACTIVATION SHALL BE LESS THAN THAT OF THE SPRINKLER HEAD AND LOCATED WITHIN 2 FEET. UPON ACTIVATION HEAT DETECTOR SHALL ACTIVATE THE SHUNT TRIP ON THE ELEVATORS TO LOWER THE CAR TO THE FLOOR DESIGNATED BY THE A.H.J. PRIOR TO SPRINKLER ACTIVATING.
7. NOT USED.
8. PROVIDE BLADED, LOCKABLE FUSED ELEVATOR DISCONNECT DIRECTLY ADJACENT TO DOOR. WIRE DISCONNECT TO SHUNT TRIP UPON ACTIVATION OF SHAFT SMOKE/HEAT DETECTOR.
9. PROVIDE 120V 15A LOCKABLE FUSIBLE DISCONNECT FOR ELEVATOR CAB LIGHTING. IF ELEVATOR IS ON GENERATOR POWER CONNECT TO LEGALLY REQUIRED STANDBY POWER, IF NOT BATTERY BACKUP BY OTHERS.
10. PROVIDE (2) TELEPHONE LINES TO ELEVATOR CONTROLLER.
11. PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR TO ELEVATOR CONTROLLER TO ELECTRICAL SOURCE.
12. PROVIDE FIRE ALARM INTERFACE MODULE AND WIRING TO FIRE ALARM CONTROL PANEL.
13. NOT USED.
14. PROVIDE 120V 20A GFCI RECEPTACLE IN ELEVATOR CONTROL ROOM. ELEVATOR RECEPTACLES AND LIGHTING SHALL BE ON A DEDICATED RECEPTACLE.
15. PROVIDE HEAT DETECTOR ONLY WHEN FIRE PROTECTION SPINKLERS(S) ARE PROVIDED. HEAT DETECTOR TEMPERATURE ACTIVATION SHALL BE LESS THAN THAT OF THE SPRINKLER HEAD. UPON ACTIVATION SMOKE/HEAT DETECTOR SHALL ACTIVATE THE SHUNT TRIP ON THE ELEVATORS TO LOWER THE CAR TO THE FLOOR DESIGNATED BY THE AHJ PRIOR TO SPRINKLER ACTIVATING.
16. PROVIDE INDUSTRIAL FIXTURE IN ELEVATOR CONTROL ROOM WITH A MINIMUM OF 30FC. PROVIDE EMERGENCY LIGHTING FROM A INTEGRAL BATTERY. ELEVATOR RECEPTACLES AND LIGHTING SHALL BE ON A DEDICATED CIRCUIT.
17. PROVIDE 3/4"C TO ELEVATOR CONTROLLER FROM SECURITY PANEL IF SECURITY CAMERAS ARE REQUIRED BY OWNER.
18. PROVIDE COMMUNICATIONS CABLE BETWEEN ELEVATOR CONTROLLER AND AUTOMATIC TRANSFER SWITCH IF ELEVATOR IS ON GENERATOR POWER.
19. ELEVATOR MACHINE ROOM SMOKE DETECTOR. SMOKE DETECTOR SHALL COMMUNICATE THROUGH THE F.A.C.P. TO THE ELEVATOR CONTROLLER TO INITIATE FIRE RECALL FUNCTION UPON ACTIVATION.
20. PROVIDE FIREFIGHTERS CONNECTION AND JACK IN ELEVATOR.
21. DEDICATED 120V DISCONNECT SWITCH FOR SMOKE DETECTOR POWER SUPPLY.
22. EMERGENCY BATTERY PROVIDED BY OTHERS. COORDINATE PRIMARY AND SECONDARY LEVELS OF EGRESS WITH OWNER, AHJ, AND INSTALLER.



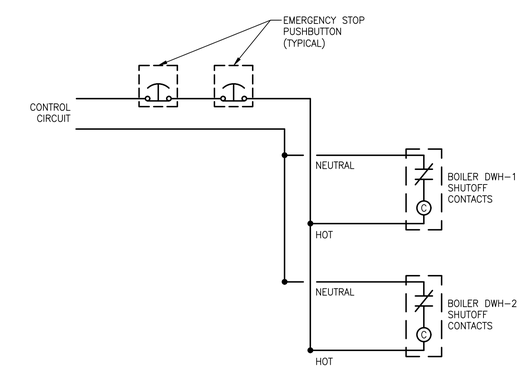
NEUTRAL/GROUNDING SYSTEM

NO SCALE



TYPICAL GROUND BAR SECTION DETAIL

NO SCALE



NOTES-
1. PROVIDE PUSHBUTTON AT EACH DOOR OUT OF BOILER ROOM.
2. PROVIDE ENGRAVED FACEPLATE WITH 'BOILER E-STOP' AT EACH PUSHBUTTON WITH PROTECTIVE COVER/RING.
3. EXTEND CIRCUIT TO ALL BOILERS IN ROOM.

BOILER ROOM SHUTOFF CONTROL DIAGRAM

NO SCALE

SVA
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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS THRUWAY PLAZA OF ROCKLAND ASSOCIATES CLARKSTOWN (NANUET) ROCKLAND COUNTY, NY 10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOWSEND · 088078 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
ELECTRICAL DETAILS

Project No. :
2018.009

Sheet No. :
E501

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PATH: S:\20\0262\02-HOLIDAY INN EXP NYC\ACAD\ELEC\20262020_E500.DWG
PLOT DATE: 4/30/2021 10:59 AM

Panel Designation: HR1B

Panel Location:
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM
Main: MLO | **Bussing:** 225A | **Ground Bus:** STANDARD | **Mounting:** SURFACE | **Neutral:** 100%
P-P Voltage: 208 | **P-N Voltage:** 120 | **Phase:** 3 | **Wire:** 4 | **Min SC Interrupting Rating:** 15K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC - ELEVATOR SHAFT MAINTENANCE		360			20	1	X			2	20			1080		REC - CORRIDORS, EXTERIOR
REC - EXCERISE RM ELECTRIC WATER COOLER		180			20	3		X		4	20			900		REC - FITNESS
REC - FITNESS MONITOR		180			20	5			X	6	20			1000		REC - FITNESS EQUIPMENT
REC - FITNESS EQUIPMENT		1000			20	7	X			8	20			1000		REC - FITNESS EQUIPMENT
REC - FITNESS EQUIPMENT		1000			20	9		X		10	20			1000		REC - FITNESS EQUIPMENT
REC - FITNESS EQUIPMENT		1000			20	11			X	12	20				1513	LTG - CORRIDOR
LTG - ELEVATOR SHAFT	300				20	13	X			14	20			720		REC - CORRIDOR
REC - DRYER		1500			30	15		X		16	20			180		REC - LAUNDRY
		1500				17			X	18	20			180		REC - EWC CORR. FIT
REC - WASHER		180			20	19	X			20	20				1000	LTG - BUILDING MOUNTED SIGNAGE
REC - TOILETS		360			20	21		X		22	20				1000	LTG - BUILDING MOUNTED SIGNAGE
MECHANICAL ZONING CONTROLLER				500	20	23			X	24	20	1560				ECUH-1 - STAIR B LVL1
F-2 - GUEST LAUNDRY				1560	20	25	X			26		1560				
CU-2				3879	60	27		X		28	30	2496				ECUH-2 - GUEST CORR LVL1
				3879		29			X	30		2496				
REC - EXTERIOR/PATIO		360			20	31	X			32	20			360		FLOOR BOXES - MEETING
REC - LOBBY BUSINESS CENTER/STORAGE		900			20	33		X		34	20			720		REC - MEETING
REC - LOBBY		720			20	35			X	36	20			180		REC - MEETING TV
SP-1		180			20	37	X			38	20			720		REC - MEETING
LTG - EXTERIOR	1000				20	39		X		40	20			1500		REC - ELEVATOR RECALL BATTERY
ELEVATOR 1 LIGHTING	500				20	41			X	42	20				820	LTG - STAIR B
ELEVATOR 1 FIRE ALARM	100				20	43	X			44	20				1210	LTG - POOL
ELEVATOR 2 LIGHTING	500				20	45		X		46	--					SPACE
ELEVATOR 1 FIRE ALARM	100				20	47			X	48	--					SPACE
SPACE					--	49	X			50	--					SPACE
SPACE					--	51		X		52	--					SPACE
SPACE					--	53			X	54	--					SPACE
SPACE					--	55	X			56	--					SPACE
SPACE					--	57		X		58	--					SPACE
SPACE					--	59			X	60	--					SPACE
SPACE					--	61	X			62	--					SPACE
SPACE					--	63		X		64	--					SPACE
SPACE					--	65			X	66	--					SPACE
SPACE					--	67	X			68	--					SPACE
SPACE					--	69		X		70	--					SPACE
SPACE					--	71			X	72	--					SPACE
SPACE					--	73	X			74	--					SPACE
SPACE					--	75		X		76	--					SPACE
SPACE					--	77			X	78	--					SPACE
SPACE					--	79	X			80	--					SPACE
SPACE					--	81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total	
Lighting or Continous Load (Volt-Amps)	2610	2500	2933	8043	1.00	2610	2500	2933	8043	
180VA Receptacle Load (Volt-Amps)	5960	8240	4760	18960	1.00 (First 10kVA)	3143	4346	2511	10000	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.
	Amount over 10kVA			8960	0.50 (> 10kVA)	1408	1947	1125	4480	
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
Non-Continuous Load (Volt-Amps)	3120	6375	8435	17930	1.00	3120	6375	8435	17930	
Total Load (kVA)	11.69	17.12	16.13	44.93	125% of Light/Cont and Recept	10.28	15.17	15.00	40.45	
Total Ampacity (Amps)	97.3	142.5	134.3	124.7	(<10kVA) load plus other load	85.6	126.3	124.9	112.3	
Minimum Feeder Sizing (Amps)	109.3	156.8	145.6	137.2	<---- per NEC Article 215.2 ---->	97.6	140.6	136.3	124.8	

Panel Designation: HR1A

Panel Location:
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM
Type: TYPE 1, ISOLATED GROUND
Main: MLO | **Bussing:** 400A | **Ground Bus:** STANDARD | **Mounting:** SURFACE | **Neutral:** 100%
P-P Voltage: 208 | **P-N Voltage:** 120 | **Phase:** 3 | **Wire:** 4 | **Min SC Interrupting Rating:** 65K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC - WASHER		3600			40	1	X			2	20			180		REC - UNISEX
		3600				3		X		4	20			720		REC - KITCHENETTE - BREAK ROOM
		3600				5			X	6	20	100				DUCT SMOKE - LVL 1
REC - DRYER		2500			30	7	X			8	20			800		REC - REFRIGERATOR
		2500				9		X		10	20			720		REC - GENERAL
		2500				11			X	12	20			720		REC - GENERAL MANAGER
REC - DRYER		2500			30	13	X			14	20			720		REC - SALES
		2500				15		X		16	20			900		REC - WORK AREA
		2500				17			X	18	20			900		REC - GENERAL
LTG - EXTERIOR	1000				20	19	X			20	20			720		REC - FRONT DESK
REC - LOBBY CLOUMN TABLE & MONITORS		720			20	21		X		22	20			360		IG REC - SERVER ROOM
REC - MARKET FREEZER		800			20	23			X	24	20			360		IG REC - SERVER ROOM
REC - MARKET REFRIGERATOR		800			20	25	X			26	20			360		IG REC - SERVER ROOM
LTG - EXTERIOR FRONT ENTRY, BULDING LTG	1000				20	27		X		28	20			720		IG REC - LVL2 PBX RM
REC - LOBBY		360			20	29			X	30	20			720		IG REC - LVL2 PBX RM
REC - MARKET		180			20	31	X			32	20			540		REC - FRONT VESTIBULE, EXTERIOR
AUTOMATIC VESTIBULE DOORS				500	20	33		X		34	20			540		REC - EXTERIOR, PATIO
REC - MECH, ELEC, MAINT., ENG, STORAGE		900			20	35			X	36	20				833	LTG - BOH
LTG - SITE POLES	447				20	37	X			38	20				298	LTG - SITE POLES
	447					39		X		40					298	
CU-1A - EXTERIOR ON GRADE				3879	60	41			X	42	20				1000	LTG - BUILDING MOUNTED SIGNAGE
				3879		43	X			44	20				1000	LTG - BUILDING MOUNTED SIGNAGE
CU-1B - EXTERIOR ON GRADE				3879	60	45		X		46	20	500				MECHANICAL ZONING CONTROLLER
				3879		47			X	48	30	2880				EUH-1 - FIRE PUMP RM
F-1A - MAINT/ENG				1560	20	49	X			50		2880				
F-1B - MAINT/ENG				1560	20	51		X		52		2880				
FFH-2 - VESTIBULE				1997	25	53			X	54	20	1560				ECUH-1 - STAIR A LVL1
				1997		55	X			56		1560				
FFH-2 - VESTIBULE				1997	25	57		X		58	30	2496				ECUH-2 - BOH CORR LVL1
				1997		59			X	60		2496				
REC - WASHER		3600			40	61	X			62	20				1574	LTG - GREAT ROOM, CHECK-IN
		3600				63		X		64	20				820	LTG - STAIR A
		3600				65			X	66	20	1320				DWH-1 - MECH/ELEC
EF-1 - FIRE PUMP RM				200	20	67	X			68	20	1320				DWH-2 - MECH/ELEC
EF-3 - LAUNDRY/BREAK				200	20	69		X		70	60	4924				BP-1 - MECH/ELEC
EF-4 AND EF-5 - COOR.FIT				400	20	71			X	72		4924				
MECHANICAL CONTROLS/BMS				500	20	73	X			74		4924				
MECHANICAL CONTROLS/BMS				500	20	75		X		76	--					SPACE
P-1 - MECH/ELEC				829	15	77			X	78	--					SPACE
				829		79	X			80	--					SPACE
				829		81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total	
Lighting or Continous Load (Volt-Amps)	4319	2565	1833	8717	1.00	4319	2565	1833	8717	
180VA Receptacle Load (Volt-Amps)	16500	16880	16960	50340	1.00 (First 10kVA)	3278	3353	3369	10000	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.
	Amount over 10kVA			40340	0.50 (> 10kVA)	6611	6763	6795	20170	
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
Non-Continuous Load (Volt-Amps)	19648	20264	26260	66173	1.00	19648	20264	26260	66173	
Total Load (kVA)	40.47	39.71	45.05	125.23	125% of Light/Cont and Recept	33.86	32.95	38.26	105.06	
Total Ampacity (Amps)	337.0	330.7	375.2	347.6	(<10kVA) load plus other load	281.9	274.3	318.6	291.6	
Minimum Feeder Sizing (Amps)	352.8	343.0	386.0	360.6	<---- per NEC Article 215.2 ---->	297.7	286.7	329.4	304.6	

Panel Designation: MDP

Panel Location: MECH/ELEC
Fed From: UTILITYI TRANSFORMER
Feeder Size: REFER TO RISER DIAGRAM
Main Size: 3000A | **Main Type:** MLO | **Bussing:** 3000A
P-P Voltage: 208 | **P-N Voltage:** 120 | **Wiring:** 3 PH, 4 W | **Neutral:** 100%
Min SC Interrupting Rating: 65k

Load Information Description	Size	kVA	Type	Panel Information Device	Size	OCP
HR1A	105.06 kVA	105.06	Equip	Breaker	400	400
HR1B	43.03 kVA	43.03	Equip	Breaker	200	200
HR1C	43.03 kVA	43.03	Equip	Breaker	200	200
HR1D	23.25 kVA	23.25	Equip	Breaker	100	100
HR1-K	27.37 kVA	27.37	Equip	Breaker	200	200
HR2C	136.16 kVA	136.16	Equip	Breaker	600	600
HR3C	142.61 kVA	142.61	Equip	Breaker	600	600
HR4C	136.25 kVA	136.25	Equip	Breaker	600	600
HR5C	167.02 kVA	167.02	Equip	Breaker	600	600
TVSS	0 Amps	0.00	Equip	Breaker	100	20
ELEVATOR 1 (3000)	82 Amps	29.54	Equip	Breaker	200	110
ELEVATOR 2 (2100)	72 Amps	25.94	Equip	Breaker	100	90

	Mech	Equip	Intermit	Contin	Totals			Minimum Feeder Amps
Total Connected kVA	0.00	879.24	0.00	0.00	879.24	2439.04		
Demand Factors	1.00	1.00	1.00	1.00	kVA	Amps		
Total Demand kVA	0.00	879.24	0.00	0.00	879.24	2439.04	Note 6 C	2554.87

Notes:
1. Motor HP and Shaft kW is converted to kVA based on Table 430.150 of the NEC. HP = Shaft kW/0.746
2. Device Size and OCP for non-motor loads based on 125% of full load per Article 210.20 of the NEC.
3. Fuses (Dual Element) feeding motors based on 150% of full load as allowed per Table 430.52 of the NEC (175% max).
4. Circuit breakers (Inverse Time) feeding motors based on 200% of full load as allowed per Table 430.52 of the NEC (250% max) and is suggested size. Recommended size of circuit breakers may vary by panelboard manufacturer.
5. Actual circuit breaker frame size may vary by panelboard manufacturer.
6. Minimum Feeder Amps calculated from 125% of continuous and largest individual load (if non-continuous) plus remaining non-continuous Connected (C) or Demand (D) load per Article 215.2 and 220.4(A) of the NEC.

Panel Designation: HR1D

Panel Location: POOL EQUIPMENT RM
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM
Type: NEMA 4X
Main: MLO | **Bussing:** 100A | **Ground Bus:** STANDARD | **Mounting:** SURFACE | **Neutral:** 100%
P-P Voltage: 208 | **P-N Voltage:** 120 | **Phase:** 3 | **Wire:** 4 | **Min SC Interrupting Rating:** 15K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC - POOL		540			20	1	X			2	20			180		REC - POOL
EF-6 - POOL				696	15	3		X		4	20				32	LTG - POOL EQ RM
LTG - IN GRADE LIGHTING	200				20	5			X	6	--					SPACE
SPACE					--	7	X			8	--					SPACE
SPACE					--	9		X		10	--					SPACE
SPACE					--	11			X	12	--					SPACE
SPACE					--	13	X			14	--					SPACE
SPACE					--	15		X		16	--					SPACE
SPACE					--	17			X	18	--					SPACE
SPACE					--	19	X			20	--					SPACE
SPACE					--	21		X		22	--					SPACE
SPACE					--	23			X	24	--					SPACE
SPACE					--	25	X			26	--					SPACE
SPACE					--	27		X		28	--					SPACE
SPACE					--	29			X	30	--					SPACE
SPACE					--	31	X			32	--					SPACE
SPACE					--	33		X		34	--					SPACE
SPACE					--	35			X	36	--					SPACE
ESTIMATED LOAD				7200	80	37	X			38	--					SPACE
				7200		39		X		40	--					SPACE
				7200		41			X	42	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total	
Lighting or Continous Load (Volt-Amps)	0	32	200	232	1.00	0	32	200	232	
180VA Receptacle Load (Volt-Amps)	720	0	0	720	1.00 (First 10kVA)	720	0	0	720	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.
	Amount over 10kVA			0	0.50 (> 10kVA)	0	0	0	0	
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
Non-Continuous Load (Volt-Amps)	7200	7896	7200	22296	1.00	7200	7896	7200	22296	
Total Load (kVA)	7.92	7.93	7.40	23.25	125% of Light/Cont and Recept	7.92	7.93	7.40	23.25	
Total Ampacity (Amps)	65.9	66.0	61.6	64.5	(<10kVA) load plus other load	65.9	66.0	61.6	64.5	
Minimum Feeder Sizing (Amps)	67.4	66.1	62.0	65.2	<---- per NEC Article 215.2 ---->	67.4	66.1	62.0	65.2	

Panel Designation: HR1C

Panel Location:
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM
Main: MLO | **Bussing:** 225A | **Ground Bus:** STANDARD | **Mounting:** SURFACE | **Neutral:** 100%
P-P Voltage: 208 | **P-N Voltage:** 120 | **Phase:** 3 | **Wire:** 4 | **Min SC Interrupting Rating:** 15K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 103		750			20	1	X			2	20			750		REC/LTG - K ACC 101
REC/LTG - K 103		600			20	3		X		4	20			600		REC/LTG - K ACC 101
BATHROOM - K 103		400			20	5			X	6	20			400		BATHROOM - K ACC 101
MICROWAVE - K 103		700			20	7	X			8	20			700		MICROWAVE - K ACC 101
COFFEE - K 103		800			20	9		X		10	20			800		COFFEE - K ACC 101
REC/LTG - K 105		750			20	11			X	12	15	1300				MECHANICAL UNIT - K ACC 101
REC/LTG - K 105		600			20	13	X			14		1300				
BATHROOM - K 105		400			20	15		X		16	15	1300				MECHANICAL UNIT - K 103
MICROWAVE - K 105		700			20	17			X	18		1300				
COFFEE - K 105		800			20	19	X			20	15	1300				MECHANICAL UNIT - K 105
REC/LTG - K 107		750			20	21		X		22		1300				
REC/LTG - K 107		600			20	23			X	24	15	1300				MECHANICAL UNIT - K 107
BATHROOM - K 107		400			20	25	X			26		1300				
MICROWAVE - K 107		700			20	27		X		28	15	1300				MECHANICAL UNIT - K 109
COFFEE - K 107		800			20	29			X	30		1300				
REC/LTG - K 109		750			20	31	X			32	15	1300				MECHANICAL UNIT - K 111
REC/LTG - K 109		600			20	33		X		34		1300				
BATHROOM - K 109		400			20	35			X	36	15	1300				MECHANICAL UNIT - K 113
MICROWAVE - K 109		700			20	37	X			38		1300				
COFFEE- K 109		800			20	39		X		40	15	1300				MECHANICAL UNIT - K 115
REC/LTG - K 111		750			20	41			X	42		1300				
REC/LTG - K 111		600			20	43	X			44	15	1300				MECHANICAL UNIT - K WIDE ACC 117
BATHROOM - K 111		400			20	45		X		46		1300				
MICROWAVE - K 111		700			20	47			X	48	--					SPACE
COFFEE - K 111		800			20	49	X			50	--					SPACE
REC/LTG - K 113		750			20	51		X		52	--					SPACE
REC/LTG - K 113		600			20	53			X	54	--					SPACE
BATHROOM - K 113		400			20	55	X			56	--					SPACE
MICROWAVE - K 113		700			20	57		X		58	--					SPACE
COFFEE - K 113		800			20	59			X	60	--					SPACE
REC/LTG - K 115		750			20	61	X			62	--					SPACE
REC/LTG - K 115		600			20	63		X		64	--					SPACE
BATHROOM - K 115		400			20	65			X	66	--					SPACE
MICROWAVE- K 115		700			20	67	X			68	--					SPACE
COFFEE- K 115		800			20	69		X		70	--					SPACE
REC/LTG - K WIDE ACC 117		750			20	71			X	72	--					SPACE
REC/LTG - K WIDE ACC 117		600			20	73	X			74	--					SPACE
BATHROOM - K WIDE ACC 117		400			20	75		X		76	--					SPACE
MICROWAVE - K WIDE ACC 117		700			20	77			X	78	--					SPACE
COFFEE - K WIDE ACC 117		800			20	79	X			80	--					SPACE
SPACE					--	81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total	
Lighting or Continous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
180VA Receptacle Load (Volt-Amps)	10800	9700	8750	29250	1.00 (First 10kVA)	3692	3316	2991	10000	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.
	Amount over 10kVA			19250	0.50 (> 10kVA)	3554	3192	2879	9625	
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
Non-Continuous Load (Volt-Amps)	7800	7800	7800	23400	1.00	7800	7800	7800	23400	
Total Load (kVA)	18.60	17.50	16.55	52.65	125% of Light/Cont and Recept	15.05	14.31	13.67	43.03	
Total Ampacity (Amps)	154.9	145.7	137.8	146.1	(<10kVA) load plus other load	125.3	119.1	113.8	119.4	
Minimum Feeder Sizing (Amps)	162.6	152.6	144.0	153.1	<---- per NEC Article 215.2 ---->	133.0	126.0	120.1	126.4	

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Project :
HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES
Checked by :

Sheet Title : ELECTRICAL PANEL SCHEDULES

Project No. : 2018.009
Sheet No. : E600

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PATH: S:\20 0262 02 HOLIDAY INN EXP NYCADELEC\20026202_E600.DWG
PLOT DATE: 4/30/2021 10:59 AM

HR2A

Panel Designation: HR2A
Panel Location: ELEC. EC2
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM

Main: MLO
Bussing: 225A
Ground Bus: STANDARD
Mounting: SURFACE
Neutral: 100%

P-P Voltage: 208
P-N Voltage: 120
Phase: 3
Wire: 4
Min SC Interrupting Rating: 42K

Remarks	Light Load	Recept Load	Hotel Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 203		750			20	1	X			2	20			750		REC/LTG - K WIDE 202
REC/LTG - K 203		600			20	3		X		4	20			600		REC/LTG - K WIDE 202
REC - BATHROOM - K 203		400			20	5			X	6	20			400		REC - BATHROOM - K WIDE 202
REC - MICROWAVE - K 203		700			20	7	X			8	20			700		REC - MICROWAVE - K WIDE 202
REC - COFFEE - K 203		800			20	9		X		10	20			800		REC - COFFEE - K WIDE 202
REC/LTG - K 205		750			20	11			X	12	20			750		REC/LTG - QQ 204
REC/LTG - K 205		600			20	13	X			14	20			600		REC/LTG - QQ 204
REC - BATHROOM - K 205		400			20	15		X		16	20			400		REC - BATHROOM - QQ 204
REC - MICROWAVE - K 205		700			20	17			X	18	20			700		REC - MICROWAVE - QQ 204
REC - COFFEE - K 205		800			20	19	X			20	20			800		REC - COFFEE - QQ 204
REC/LTG - (HA) K 207		750			20	21		X		22	20			750		REC/LTG - QQ 206
REC/LTG - (HA) K 207		600			20	23			X	24	20			600		REC/LTG - QQ 206
REC - BATHROOM - (HA) K 207		400			20	25	X			26	20			400		REC - BATHROOM - QQ 206
REC - MICROWAVE - (HA) K 207		700			20	27		X		28	20			700		REC - MICROWAVE - QQ 206
REC - COFFEE - (HA) K 207		800			20	29			X	30	20			800		REC - COFFEE - QQ 206
REC/LTG - (ACC) K SUITE 209		750			20	31	X			32	20			750		REC/LTG - QQ 208
REC/LTG - (ACC) K SUITE 209		600			20	33		X		34	20			600		REC/LTG - QQ 208
REC - BATHROOM - (ACC) K SUITE 209		400			20	35			X	36	20			400		REC - BATHROOM - QQ 208
REC - MICROWAVE - (ACC) K SUITE 209		700			20	37	X			38	20			700		REC - MICROWAVE - QQ 208
REC - COFFEE - (ACC) K SUITE 209		800			20	39		X		40	20			800		REC - COFFEE - QQ 208
REC/LTG - K SUITE 211		750			20	41			X	42	20			750		REC/LTG - QQ SUITE 210
REC/LTG - K SUITE 211		600			20	43	X			44	20			600		REC/LTG - QQ SUITE 210
REC - BATHROOM - K SUITE 211		400			20	45		X		46	20			400		REC - BATHROOM - QQ SUITE 210
REC - MICROWAVE - K SUITE 211		700			20	47			X	48	20			700		REC - MICROWAVE - QQ SUITE 210
REC - COFFEE - K SUITE 211		800			20	49	X			50	20			800		REC - COFFEE - QQ SUITE 210
REC/LTG - K SUITE 213		750			20	51		X		52	20			750		REC/LTG - QQ SUITE 212
REC/LTG - K SUITE 213		600			20	53			X	54	20			600		REC/LTG - QQ SUITE 212
REC - BATHROOM - K SUITE 213		400			20	55	X			56	20			400		REC - BATHROOM - QQ SUITE 212
REC - MICROWAVE - K SUITE 213		700			20	57		X		58	20			700		REC - MICROWAVE - QQ SUITE 212
REC - COFFEE - K SUITE 213		800			20	59			X	60	20			800		REC - COFFEE - QQ SUITE 212
REC/LTG - K 215		750			20	61	X			62	20			750		REC/LTG - QQ SUITE 214
REC/LTG - K 215		600			20	63		X		64	20			600		REC/LTG - QQ SUITE 214
REC - BATHROOM - K 215		400			20	65			X	66	20			400		REC - BATHROOM - QQ SUITE 214
REC - MICROWAVE - K 215		700			20	67	X			68	20			700		REC - MICROWAVE - QQ SUITE 214
REC - COFFEE - K 215		800			20	69		X		70	20			800		REC - COFFEE - QQ SUITE 214
REC - CORRIDOR		900			20	71			X	72	20			180		REC - ICE MACHINE
LTG - LVL2 CORRIDORS	1137				20	73	X			74	20	1500				FFH-1 - ELEV LOBBY
SPARE					20	75		X		76	20					SPARE
SPARE					20	77			X	78	20					SPARE
SPARE					20	79	X			80	20					SPARE
SPACE					--	81		X		82	20					SPARE
SPACE					--	83			X	84	20					SPARE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	1137	0	0	1137	1.00	1137	0	0	1137
180VA Receptacle Load (Volt-Amps)	15900	15800	14880	46580	1.00 (First 10kVA)	3413	3392	3195	10000
	Amount over 10kVA			36580	0.50 (> 10kVA)	6243	6204	5843	18290
Hotel Appliance Load	0	0	0	0	0.75	0	0	0	0
Non-Continuous Load (Volt-Amps)	1500	0	0	1500	1.00	1500	0	0	1500
Total Load (kVA)	18.54	15.80	14.88	49.22	125% of Light/Cont and Recept	12.29	9.60	9.04	30.93
Total Ampacity (Amps)	154.4	131.6	123.9	136.6	(<10kVA) load plus other load	102.4	79.9	75.3	85.8
Minimum Feeder Sizing (Amps)	163.8	138.6	130.6	144.3	<---- per NEC Article 215.2 ---->	111.8	87.0	81.9	93.6

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

HR2B

Panel Designation: HR2B
Panel Location: ELEC. EC2
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM

Main: MLO
Bussing: 225A
Ground Bus: STANDARD
Mounting: SURFACE
Neutral: 100%

P-P Voltage: 208
P-N Voltage: 120
Phase: 3
Wire: 4
Min SC Interrupting Rating: 42K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 217		750			20	1	X			2	20			750		REC/LTG - (HA) QQ 220
REC/LTG - K 217		600			20	3		X		4	20			600		REC/LTG - (HA) QQ 220
REC - BATHROOM - K 217		400			20	5			X	6	20			400		REC - BATHROOM - (HA) QQ 220
REC - MICROWAVE - K 217		700			20	7	X			8	20			700		REC - MICROWAVE - (HA) QQ 220
REC - COFFEE - K 217		800			20	9		X		10	20			800		REC - COFFEE - (HA) QQ 220
REC/LTG - K 219		750			20	11			X	12	20			750		REC/LTG - QQ 222
REC/LTG - K 219		600			20	13	X			14	20			600		REC/LTG - QQ 222
REC - BATHROOM - K 219		400			20	15		X		16	20			400		REC - BATHROOM - QQ 222
REC - MICROWAVE - K 219		700			20	17			X	18	20			700		REC - MICROWAVE - QQ 222
REC - COFFEE - K 219		800			20	19	X			20	20			800		REC - COFFEE - QQ 222
REC/LTG - K 221		750			20	21		X		22	20			750		REC/LTG - QQ 224
REC/LTG - K 221		600			20	23			X	24	20			600		REC/LTG - QQ 224
REC - BATHROOM - K 221		400			20	25	X			26	20			400		REC - BATHROOM - QQ 224
REC - MICROWAVE - K 221		700			20	27		X		28	20			700		REC - MICROWAVE - QQ 224
REC - COFFEE - K 221		800			20	29			X	30	20			800		REC - COFFEE - QQ 224
REC/LTG - K 223		750			20	31	X			32	20			750		REC/LTG - QQ 226
REC/LTG - K 223		600			20	33		X		34	20			600		REC/LTG - QQ 226
REC - BATHROOM - K 223		400			20	35			X	36	20			400		REC - BATHROOM - QQ 226
REC - MICROWAVE - K 223		700			20	37	X			38	20			700		REC - MICROWAVE - QQ 226
REC - COFFEE - K 223		800			20	39		X		40	20			800		REC - COFFEE - QQ 226
REC/LTG - K 225		750			20	41			X	42	20			750		REC/LTG - QQ 228
REC/LTG - K 225		600			20	43	X			44	20			600		REC/LTG - QQ 228
REC - BATHROOM - K 225		400			20	45		X		46	20			400		REC - BATHROOM - QQ 228
REC - MICROWAVE - K 225		700			20	47			X	48	20			700		REC - MICROWAVE - QQ 228
REC - COFFEE - K 225		800			20	49	X			50	20			800		REC - COFFEE - QQ 228
REC/LTG - K 227		750			20	51		X		52	20			750		REC/LTG - QQ 230
REC/LTG - K 227		600			20	53			X	54	20			600		REC/LTG - QQ 230
REC - BATHROOM - K 227		400			20	55	X			56	20			400		REC - BATHROOM - QQ 230
REC - MICROWAVE - K 227		700			20	57		X		58	20			700		REC - MICROWAVE - QQ 230
REC - COFFEE - K 227		800			20	59			X	60	20			800		REC - COFFEE - QQ 230
REC/LTG - K 229		750			20	61	X			62	20			750		REC/LTG - K WIDE ACC 231
REC/LTG - K 229		600			20	63		X		64	20			600		REC/LTG - K WIDE ACC 231
REC - BATHROOM - K 229		400			20	65			X	66	20			400		REC - BATHROOM - K WIDE ACC 231
REC - MICROWAVE - K 229		700			20	67	X			68	20			700		REC - MICROWAVE - K WIDE ACC 231
REC - COFFEE - K 229		800			20	69		X		70	20			800		REC - COFFEE - K WIDE ACC 231
REC - CORRIDOR		1080			20	71			X	72	20					SPARE
SPARE					20	73	X			74	20					SPARE
ECUH-1 - HSKG LVL2				1500	20	75		X		76	20					SPARE
				1500		77			X	78	20					SPARE
SPARE					20	79	X			80	20					SPARE
SPACE					--	81		X		82	20					SPARE
SPACE					--	83			X	84	20					SPARE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
180VA Receptacle Load (Volt-Amps)	15900	15800	14880	46580	1.00 (First 10kVA)	3413	3392	3195	10000
	Amount over 10kVA			36580	0.50 (> 10kVA)	6243	6204	5843	18290
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
Non-Continuous Load (Volt-Amps)	0	1500	1500	3000	1.00	0	1500	1500	3000
Total Load (kVA)	15.90	17.30	16.38	49.58	125% of Light/Cont and Recept	9.66	11.10	10.54	31.29
Total Ampacity (Amps)	132.4	144.1	136.4	137.6	(<10kVA) load plus other load	80.4	92.4	87.7	86.8
Minimum Feeder Sizing (Amps)	139.5	151.1	143.0	144.6	<---- per NEC Article 215.2 ---->	87.5	99.5	94.4	93.8

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

HR2C

Panel Designation: HR2C
Panel Location: ELEC. EC2
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM

Main: MLO
Bussing: 600A
Ground Bus: STANDARD
Mounting: SURFACE
Neutral: 100%

P-P Voltage: 208
P-N Voltage: 120
Phase: 3
Wire: 4
Min SC Interrupting Rating: 42K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
MECHANICAL UNIT - K WIDE 202				1300	15	1	X			2	15	1300				MECHANICAL UNIT - K 217
				1300		3		X		4		1300				
MECHANICAL UNIT - K 203				1300	15	5			X	6	15	1300				MECHANICAL UNIT - K 219
				1300		7	X			8		1300				
MECHANICAL UNIT - QQ 204				1300	15	9		X		10	15	1300				MECHANICAL UNIT - (HA) QQ 220
				1300		11			X	12		1300				
MECHANICAL UNIT - K 205				1300	15	13	X			14	15	1300				MECHANICAL UNIT - K 221
				1300		15		X		16		1300				
MECHANICAL UNIT - QQ 206				1300	15	17			X	18	15	1300				MECHANICAL UNIT - QQ 222
				1300		19	X			20		1300				
MECHANICAL UNIT - (HA) K 207				1300	15	21		X		22	15	1300				MECHANICAL UNIT - K 223
				1300		23			X	24		1300				
MECHANICAL UNIT - QQ 208				1300	15	25	X			26	15	1300				MECHANICAL UNIT - QQ 224
				1300		27		X		28		1300				
MECHANICAL UNIT - (ACC) K SUITE 209				1300	15	29			X	30	15	1300				MECHANICAL UNIT - K 225
				1300		31	X			32		1300				
MECHANICAL UNIT - QQ SUITE 210				1300	15	33		X		34	15	1300				MECHANICAL UNIT - QQ 226
				1300		35			X	36		1300				
MECHANICAL UNIT - K SUITE 211				1300	15	37	X			38	15	1300				MECHANICAL UNIT - K 227
				1300		39		X		40		1300				
MECHANICAL UNIT - QQ SUITE 212				1300	15	41			X	42	15	1300				MECHANICAL UNIT - QQ 228
				1300		43	X			44		1300				
MECHANICAL UNIT - K SUITE 213				1300	15	45		X		46	15	1300				MECHANICAL UNIT - K 229
				1300		47			X	48		1300				
MECHANICAL UNIT - QQ SUITE 214				1300	15	49	X			50	15	1300				MECHANICAL UNIT - QQ 230
				1300		51		X		52		1300				
MECHANICAL UNIT - K 215				1300	15	53			X	54	15	1300				MECHANICAL UNIT - K WIDE ACC 231
				1300		55	X			56		1300				
VTAC-A - CORRIDOR				1310	15	57		X		58	20	400				DUCT SMOKE - LVL2
				1310		59			X	60	20	100				FAA - LVL 2
VTAC-A - CORRIDOR				1310	15	61	X			62	20	400				DUCT SMOKE - LVL2
				1310		63		X		64	--					SPACE
SPACE					--	65			X	66	--					SPACE
SPACE					--	67	X			68	--					SPACE
SPACE					--	69		X		70	--					SPACE
SPACE					--	71			X	72	--					SPACE
SPACE					--	73	X			74	--					SPACE
SPACE					--	75		X		76	--					SPACE
SPACE					--	77			X	78	--					SPACE
HR2A	1137	15900	0	1500	200	79	X			80	200	0	0	15900	0	HR2B
	0	15800	0	0		81		X		82		1500	0	15800	0	
	0	14880	0	0		83			X	84		1500	0	14880	0	

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	1137	0	0	1137	1.00	1137	0	0	1137
180VA Receptacle Load (Volt-Amps)	31800	31600	29760	93160	1.00 (First 10kVA)	3413	3392	3195	10000
	Amount over 10kVA			83160	0.50 (> 10kVA)	14193	14104	13283	41580
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
Non-Continuous Load (Volt-Amps)	29210	27921	26310	83442	1.00	29210	27921	26310	83442
Total Load (kVA)	62.15	59.52	56.07	177.74	125% of Light/Cont and Recept	47.95	45.42	42.79	136.16
Total Ampacity (Amps)	517.5	495.6	466.9	493.3	(<10kVA) load plus other load	399.3	378.2	356.3	377.9
Minimum Feeder Sizing (Amps)	527.0	502.7	473.5	501.1	<---- per NEC Article 215.2 ---->	408.8	385.2	362.9	385.7

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

HR3A

Panel Designation: HR3A
Panel Location: ELEC. EC3
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM

Main: MLO
Bussing: 225A
Ground Bus: STANDARD
Mounting: SURFACE
Neutral: 100%

P-P Voltage: 208
P-N Voltage: 120
Phase: 3
Wire: 4
Min SC Interrupting Rating: 42K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 303		750			20	1	X			2	20			750		REC/LTG - K WIDE 302
REC/LTG - K 303		600			20	3		X		4	20			600		REC/LTG - K WIDE 302
BATHROOM - K 303		400			20	5			X	6	20			400		BATHROOM - K WIDE 302
MICROWAVE - K 303		700			20	7	X			8	20			700		MICROWAVE - K WIDE 302
COFFEE - K 303		800			20	9		X		10	20			800		COFFEE - K WIDE 302
REC/LTG - K 305		750			20	11			X	12	20			750		REC/LTG - QQ 304
REC/LTG - K 305		600			20	13	X			14	20			600		REC/LTG - QQ 304
BATHROOM - K 305		400			20	15		X		16	20			400		BATHROOM - QQ 304
MICROWAVE - K 305		700			20	17			X	18	20			700		MICROWAVE - QQ 304
COFFEE - K 305		800			20	19	X			20	20			800		COFFEE - QQ 304
REC/LTG - (HA) K 307		750			20	21		X		22	20			750		REC/LTG - QQ 306
REC/LTG - (HA) K 307		600			20	23			X	24	20			600		REC/LTG - QQ 306
BATHROOM - (HA) K 307		400			20	25	X			26	20			400		BATHROOM - QQ 306
MICROWAVE - (HA) K 307		700			20	27		X		28	20			700		MICROWAVE - QQ 306
COFFEE - (HA) K 307		800			20	29			X	30	20			800		COFFEE - QQ 306
REC/LTG - (ACC) K SUITE 309		750			20	31	X			32	20			750		REC/LTG - QQ 308
REC/LTG - (ACC) K SUITE 309		600			20	33		X		34	20			600		REC/LTG - QQ 308
BATHROOM - (ACC) K SUITE 309		400			20	35			X	36	20			400		BATHROOM - QQ 308
MICROWAVE - (ACC) K SUITE 309		700			20	37	X			38	20			700		MICROWAVE - QQ 308
COFFEE - (ACC) K SUITE 309		800			20	39		X		40	20			800		COFFEE - QQ 308
REC/LTG - K SUITE 311		750			20	41			X	42	20			750		REC/LTG - QQ SUITE 310
REC/LTG - K SUITE 311		600			20	43	X			44	20			600		REC/LTG - QQ SUITE 310
BATHROOM - K SUITE 311		400			20	45		X		46	20			400		BATHROOM - QQ SUITE 310
MICROWAVE - K SUITE 311		700			20	47			X	48	20			700		MICROWAVE - QQ SUITE 310
COFFEE - K SUITE 311		800			20	49	X			50	20			800		COFFEE - QQ SUITE 310
REC/LTG - K SUITE 313		750			20	51		X		52	20			750		REC/LTG - QQ SUITE 312
REC/LTG - K SUITE 313		600			20	53			X	54	20			600		REC/LTG - QQ SUITE 312
BATHROOM - K SUITE 313		400			20	55	X			56	20			400		BATHROOM - QQ SUITE 312
MICROWAVE - K SUITE 313		700			20	57		X		58	20			700		MICROWAVE - QQ SUITE 312
COFFEE - K SUITE 313		800			20	59			X	60	20			800		COFFEE - QQ SUITE 312
REC/LTG - K 315		750			20	61	X			62	20			750		REC/LTG - QQ SUITE 314
REC/LTG - K 315		600			20	63		X		64	20			600		REC/LTG - QQ SUITE 314
BATHROOM - K 315		400			20	65			X	66	20			400		BATHROOM - QQ SUITE 314
MICROWAVE - K 315		700			20	67	X			68	20			700		MICROWAVE - QQ SUITE 314
COFFEE - K 315		800			20	69		X		70	20			800		COFFEE - QQ SUITE 314
REC - CORRIDOR		900			20	71			X	72	20			180		REC - ICE MACHINE
ECUH-1 - STAIR A LVL3			1560	20		73	X			74	20	1500				FFH-1 - ELEV LOBBY
			1560			75		X		76	20					SPARE
LTG - LVL3 CORRIDORS	1137				20	77			X	78	20					SPARE
SPARE					20	79	X			80	20					SPARE
SPACE					--	81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	0	0	1137	1137	1.00	0	0	1137	1137
180VA Receptacle Load (Volt-Amps)	15900	15800	14880	46580	1.00 (First 10kVA)	3413	3392	3195	10000
	Amount over 10kVA			36580	0.50 (> 10kVA)	6243	6204	5843	18290
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
Non-Continuous Load (Volt-Amps)	3060	1560	0	4620	1.00	3060	1560	0	4620
Total Load (kVA)	18.96	17.36	16.02	52.34	125% of Light/Cont and Recept	12.72	11.16	10.17	34.05
Total Ampacity (Amps)	157.9	144.6	133.4	145.3	(<10kVA) load plus other load	105.9	92.9	84.7	94.5
Minimum Feeder Sizing (Amps)	165.0	151.6	142.4	153.0	<---- per NEC ArticlE 315.2 ---->	113.0	100.0	93.7	102.2

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
ELECTRICAL PANEL SCHEDULES

Project No. :
2018.009

Sheet No. :
E601

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PATH: S:\20 0262 02 HOLIDAY INN EXP NY\CAD\ELEC\20262_E600.DWG
PLOT DATE: 4/30/2021 10:59 AM

Panel Designation: HR3B
Panel Location: ELEC. EC3 | Fed From: MDP | Feeder Size: REFER TO RISER DIAGRAM
Main: MLO | Bussing: 225A | Ground Bus: STANDARD | Mounting: SURFACE | Neutral: 100%
P-P Voltage: 208 | P-N Voltage: 120 | Phase: 3 | Wire: 4 | Min SC Interrupting Rating: 42K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 317		750			20	1	X			2	20			750		REC/LTG - (HA) QQ 320
REC/LTG - K 317		600			20	3		X		4	20			600		REC/LTG - (HA) QQ 320
BATHROOM - K 317		400			20	5			X	6	20			400		BATHROOM - (HA) QQ 320
MICROWAVE - K 317		700			20	7	X			8	20			700		MICROWAVE - (HA) QQ 320
COFFEE - K 317		800			20	9		X		10	20			800		COFFEE - (HA) QQ 320
REC/LTG - K 319		750			20	11			X	12	20			750		REC/LTG - QQ 322
REC/LTG - K 319		600			20	13	X			14	20			600		REC/LTG - QQ 322
BATHROOM - K 319		400			20	15		X		16	20			400		BATHROOM - QQ 322
MICROWAVE - K 319		700			20	17			X	18	20			700		MICROWAVE - QQ 322
COFFEE - K 319		800			20	19	X			20	20			800		COFFEE - QQ 322
REC/LTG - K 321		750			20	21		X		22	20			750		REC/LTG - QQ 324
REC/LTG - K 321		600			20	23			X	24	20			600		REC/LTG - QQ 324
BATHROOM - K 321		400			20	25	X			26	20			400		BATHROOM - QQ 324
MICROWAVE - K 321		700			20	27		X		28	20			700		MICROWAVE - QQ 324
COFFEE - K 321		800			20	29			X	30	20			800		COFFEE - QQ 324
REC/LTG - K 323		750			20	31	X			32	20			750		REC/LTG - QQ 326
REC/LTG - K 323		600			20	33		X		34	20			600		REC/LTG - QQ 326
BATHROOM - K 323		400			20	35			X	36	20			400		BATHROOM - QQ 326
MICROWAVE - K 323		700			20	37	X			38	20			700		MICROWAVE - QQ 326
COFFEE - K 323		800			20	39		X		40	20			800		COFFEE - QQ 326
REC/LTG - K 325		750			20	41			X	42	20			750		REC/LTG - QQ 328
REC/LTG - K 325		600			20	43	X			44	20			600		REC/LTG - QQ 328
BATHROOM - K 325		400			20	45		X		46	20			400		BATHROOM - QQ 328
MICROWAVE - K 325		700			20	47			X	48	20			700		MICROWAVE - QQ 328
COFFEE - K 325		800			20	49	X			50	20			800		COFFEE - QQ 328
REC/LTG - K 327		750			20	51		X		52	20			750		REC/LTG - QQ 330
REC/LTG - K 327		600			20	53			X	54	20			600		REC/LTG - QQ 330
BATHROOM - K 327		400			20	55	X			56	20			400		BATHROOM - QQ 330
MICROWAVE - K 327		700			20	57		X		58	20			700		MICROWAVE - QQ 330
COFFEE - K 327		800			20	59			X	60	20			800		COFFEE - QQ 330
REC/LTG - K 329		750			20	61	X			62	20			750		REC/LTG - K WIDE ACC 331
REC/LTG - K 329		600			20	63		X		64	20			600		REC/LTG - K WIDE ACC 331
BATHROOM - K 329		400			20	65			X	66	20			400		BATHROOM - K WIDE ACC 331
MICROWAVE - K 329		700			20	67	X			68	20			700		MICROWAVE - K WIDE ACC 331
COFFEE - K 329		800			20	69		X		70	20			800		COFFEE - K WIDE ACC 331
REC - CORRIDOR		1260			20	71			X	72	20	1560				ECUH-1 - STAIR B LVL3
ECUH-1 - HSKG LVL3				1560	20	73	X			74		1560				
				1560		75		X		76	20					SPARE
SPARE					20	77			X	78	20					SPARE
SPARE					20	79	X			80	20					SPARE
SPACE					--	81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
180VA Receptacle Load (Volt-Amps)	15900	15800	15060	46760	1.00 (First 10kVA)	3400	3379	3221	10000
	Amount over 10kVA			36760	0.50 (> 10kVA)	6250	6211	5920	18380
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
Non-Continuous Load (Volt-Amps)	3120	1560	1560	6240	1.00	3120	1560	1560	6240
Total Load (kVA)	19.02	17.36	16.62	53.00	125% of Light/Cont and Recept	12.77	11.15	10.70	34.62
Total Ampacity (Amps)	158.4	144.6	138.4	147.1	(<10kVA) load plus other load	106.3	92.8	89.1	96.1
Minimum Feeder Sizing (Amps)	165.5	151.6	145.1	154.0	<---- per NEC Article 215.2 ---->	113.4	99.9	95.8	103.0

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

Panel Designation: HR3C
Panel Location: ELEC. EC2 | Fed From: MDP | Feeder Size: REFER TO RISER DIAGRAM
Main: MLO | Bussing: 600A | Ground Bus: STANDARD | Mounting: SURFACE | Neutral: 100%
P-P Voltage: 208 | P-N Voltage: 120 | Phase: 3 | Wire: 4 | Min SC Interrupting Rating: 42K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
MECHANICAL UNIT - K WIDE 302				1300	15	1	X			2	15	1300				MECHANICAL UNIT - K 317
				1300		3		X		4		1300				
MECHANICAL UNIT - K 303				1300	15	5			X	6	15	1300				MECHANICAL UNIT - K 319
				1300		7	X			8		1300				
MECHANICAL UNIT - QQ 304				1300	15	9		X		10	15	1300				MECHANICAL UNIT - (HA) QQ 320
				1300		11			X	12		1300				
MECHANICAL UNIT - K 305				1300	15	13	X			14	15	1300				MECHANICAL UNIT - K 321
				1300		15		X		16		1300				
MECHANICAL UNIT - QQ 306				1300	15	17			X	18	15	1300				MECHANICAL UNIT - QQ 322
				1300		19	X			20		1300				
MECHANICAL UNIT - (HA) K 307				1300	15	21		X		22	15	1300				MECHANICAL UNIT - K 323
				1300		23			X	24		1300				
MECHANICAL UNIT - QQ 308				1300	15	25	X			26	15	1300				MECHANICAL UNIT - QQ 324
				1300		27		X		28		1300				
MECHANICAL UNIT - (ACC) K SUITE 309				1300	15	29			X	30	15	1300				MECHANICAL UNIT - K 325
				1300		31	X			32		1300				
MECHANICAL UNIT - QQ SUITE 310				1300	15	33		X		34	15	1300				MECHANICAL UNIT - QQ 326
				1300		35			X	36		1300				
MECHANICAL UNIT - K SUITE 311				1300	15	37	X			38	15	1300				MECHANICAL UNIT - K 327
				1300		39		X		40		1300				
MECHANICAL UNIT - QQ SUITE 312				1300	15	41			X	42	15	1300				MECHANICAL UNIT - QQ 328
				1300		43	X			44		1300				
MECHANICAL UNIT - K SUITE 313				1300	15	45		X		46	15	1300				MECHANICAL UNIT - K 329
				1300		47			X	48		1300				
MECHANICAL UNIT - QQ SUITE 314				1300	15	49	X			50	15	1300				MECHANICAL UNIT - QQ 330
				1300		51		X		52		1300				
MECHANICAL UNIT - K 315				1300	15	53			X	54	15	1300				MECHANICAL UNIT - K WIDE ACC 331
				1300		55	X			56		1300				
VTAC-A - CORRIDOR				1310	15	57		X		58	20	400				DUCT SMOKE - LVL3
				1310		59			X	60	20	100				FAA - LVL3
VTAC-A - CORRIDOR				1310	15	61	X			62	20	400				DUCT SMOKE - LVL3
				1310		63		X		64	--					SPACE
SPACE					--	65			X	66	--					SPACE
SPACE					--	67	X			68	--					SPACE
SPACE					--	69		X		70	--					SPACE
SPACE					--	71			X	72	--					SPACE
SPACE					--	73	X			74	--					SPACE
SPACE					--	75		X		76	--					SPACE
SPACE					--	77			X	78	--					SPACE
HR3A	0	15900	0	3060	200	79	X			80	200	3120	0	15900	0	HR3B
	0	15800	0	1560		81		X		82		1560	0	15800	0	
	1137	14880	0	0		83			X	84		1560	0	15060	0	

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	0	0	1137	1137	1.00	0	0	1137	1137
180VA Receptacle Load (Volt-Amps)	31800	31600	29940	93340	1.00 (First 10kVA)	3407	3385	3208	10000
	Amount over 10kVA			83340	0.50 (> 10kVA)	14197	14107	13366	41670
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
Non-Continuous Load (Volt-Amps)	33890	29541	26370	89802	1.00	33890	29541	26370	89802
Total Load (kVA)	65.69	61.14	57.45	184.28	125% of Light/Cont and Recept	51.49	47.03	44.08	142.61
Total Ampacity (Amps)	547.0	509.1	478.4	511.5	(<10kVA) load plus other load	428.8	391.6	367.1	395.8
Minimum Feeder Sizing (Amps)	554.1	516.2	487.4	519.2	<---- per NEC Article 215.2 ---->	435.9	398.7	376.1	403.6

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

Panel Designation: HR4A
Panel Location: ELEC. EC4 | Fed From: MDP | Feeder Size: REFER TO RISER DIAGRAM
Main: MLO | Bussing: 225A | Ground Bus: STANDARD | Mounting: SURFACE | Neutral: 100%
P-P Voltage: 208 | P-N Voltage: 120 | Phase: 3 | Wire: 4 | Min SC Interrupting Rating: 42K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 403		750			20	1	X			2	20			750		REC/LTG - K WIDE 402
REC/LTG - K 403		600			20	3		X		4	20			600		REC/LTG - K WIDE 402
REC - BATHROOM - K 403		400			20	5			X	6	20			400		REC - BATHROOM - K WIDE 402
REC - MICROWAVE - K 403		700			20	7	X			8	20			700		REC - MICROWAVE - K WIDE 402
REC - COFFEE - K 403		800			20	9		X		10	20			800		REC - COFFEE - K WIDE 402
REC/LTG - K 405		750			20	11			X	12	20			750		REC/LTG - QQ 404
REC/LTG - K 405		600			20	13	X			14	20			600		REC/LTG - QQ 404
REC - BATHROOM - K 405		400			20	15		X		16	20			400		REC - BATHROOM - QQ 404
REC - MICROWAVE - K 405		700			20	17			X	18	20			700		REC - MICROWAVE - QQ 404
REC - COFFEE - K 405		800			20	19	X			20	20			800		REC - COFFEE - QQ 404
REC/LTG - (HA) K 407		750			20	21		X		22	20			750		REC/LTG - QQ 406
REC/LTG - (HA) K 407		600			20	23			X	24	20			600		REC/LTG - QQ 406
REC - BATHROOM - (HA) K 407		400			20	25	X			26	20			400		REC - BATHROOM - QQ 406
REC - MICROWAVE - (HA) K 407		700			20	27		X		28	20			700		REC - MICROWAVE - QQ 406
REC - COFFEE - (HA) K 407		800			20	29			X	30	20			800		REC - COFFEE - QQ 406
REC/LTG - K SUITE 409		750			20	31	X			32	20			750		REC/LTG - K 408
REC/LTG - K SUITE 409		600			20	33		X		34	20			600		REC/LTG - K 408
REC - BATHROOM - K SUITE 409		400			20	35			X	36	20			400		REC - BATHROOM - K 408
REC - MICROWAVE - K SUITE 409		700			20	37	X			38	20			700		REC - MICROWAVE - K 408
REC - COFFEE - K SUITE 409		800			20	39		X		40	20			800		REC - COFFEE - K 408
REC/LTG - K SUITE 411		750			20	41			X	42	20			750		REC/LTG - QQ (ACC) 410
REC/LTG - K SUITE 411		600			20	43	X			44	20			600		REC/LTG - QQ (ACC) 410
REC - BATHROOM - K SUITE 411		400			20	45		X		46	20			400		REC - BATHROOM - QQ (ACC) 410
REC - MICROWAVE - K SUITE 411		700			20	47			X	48	20			700		REC - MICROWAVE - QQ (ACC) 410
REC - COFFEE - K SUITE 411		800			20	49	X			50	20			800		REC - COFFEE - QQ (ACC) 410
REC/LTG - (HA) K SUITE 413		750			20	51		X		52	20			750		REC/LTG - QQ SUITE 412
REC/LTG - (HA) K SUITE 413		600			20	53			X	54	20			600		REC/LTG - QQ SUITE 412
REC - BATHROOM - (HA) K SUITE 413		400			20	55	X			56	20			400		REC - BATHROOM - QQ SUITE 412
REC - MICROWAVE - (HA) K SUITE 413		700			20	57		X		58	20			700		REC - MICROWAVE - QQ SUITE 412
REC - COFFEE - (HA) K SUITE 413		800			20	59			X	60	20			800		REC - COFFEE - QQ SUITE 412
REC/LTG - K 415		750			20	61	X			62	20			750		REC/LTG - QQ SUITE 414
REC/LTG - K 415		600			20	63		X		64	20			600		REC/LTG - QQ SUITE 414
REC - BATHROOM - K 415		400			20	65			X	66	20			400		REC - BATHROOM - QQ SUITE 414
REC - MICROWAVE - K 415		700			20	67	X			68	20			700		REC - MICROWAVE - QQ SUITE 414
REC - COFFEE - K 415		800			20	69		X		70	20			800		REC - COFFEE - QQ SUITE 414
REC - CORRIDOR		900			20	71			X	72	20			180		REC - ICE MACHINE
LTG - LVL4 CORRIDORS	1137				20	73	X			74	20	1500				FFH-1 - ELEV LOBBY
SPACE					--	75		X		76	--					SPACE
SPACE					--	77			X	78	--					SPACE
SPACE					--	79	X			80	--					SPACE
SPACE					--	81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	1137	0	0	1137	1.00	1137	0	0	1137
180VA Receptacle Load (Volt-Amps)	15900	15800	14880	46580	1.00 (First 10kVA)	3413	3392	3195	10000
	Amount over 10kVA			36580	0.50 (> 10kVA)	6243	6204	5843	18290
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
Non-Continuous Load (Volt-Amps)	1500	0	0	1500	1.00	1500	0	0	1500
Total Load (kVA)	18.54	15.80	14.88	49.22	125% of Light/Cont and Recept	12.29	9.60	9.04	30.93
Total Ampacity (Amps)	154.4	131.6	123.9	136.6	(<10kVA) load plus other load	102.4	79.9	75.3	85.8
Minimum Feeder Sizing (Amps)	163.8	138.6	130.6	144.3	<---- per NEC ArticlE 415.2 ---->	111.8	87.0	81.9	93.6

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

Panel Designation: HR4B
Panel Location: ELEC. EC4 | Fed From: MDP | Feeder Size: REFER TO RISER DIAGRAM
Main: MLO | Bussing: 225A | Ground Bus: STANDARD | Mounting: SURFACE | Neutral: 100%
P-P Voltage: 208 | P-N Voltage: 120 | Phase: 3 | Wire: 4 | Min SC Interrupting Rating: 42K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 417		750			20	1	X			2	20			750		REC/LTG - (HA) QQ 420
REC/LTG - K 417		600			20	3		X		4	20			600		REC/LTG - (HA) QQ 420
REC - BATHROOM - K 417		400			20	5			X	6	20			400		REC - BATHROOM - (HA) QQ 420
REC - MICROWAVE - K 417		700			20	7	X			8	20			700		REC - MICROWAVE - (HA) QQ 420
REC - COFFEE - K 417		800			20	9		X		10	20			800		REC - COFFEE - (HA) QQ 420
REC/LTG - K 419		750			20	11			X	12	20			750		REC/LTG - QQ 422
REC/LTG - K 419		600			20	13	X			14	20			600		REC/LTG - QQ 422
REC - BATHROOM - K 419		400			20	15		X		16	20			400		REC - BATHROOM - QQ 422
REC - MICROWAVE - K 419		700			20	17			X	18	20			700		REC - MICROWAVE - QQ 422
REC - COFFEE - K 419		800			20	19	X			20	20			800		REC - COFFEE - QQ 422
REC/LTG - K 421		750			20	21		X		22	20			750		REC/LTG - QQ 424
REC/LTG - K 421		600			20	23			X	24	20			600		REC/LTG - QQ 424
REC - BATHROOM - K 421		400			20	25	X			26	20			400		REC - BATHROOM - QQ 424
REC - MICROWAVE - K 421		700			20	27		X		28	20			700		REC - MICROWAVE - QQ 424
REC - COFFEE - K 421		800			20	29			X	30	20			800		REC - COFFEE - QQ 424
REC/LTG - K 423		750			20	31	X			32	20			750		REC/LTG - QQ 426
REC/LTG - K 423		600			20	33		X		34	20			600		REC/LTG - QQ 426
REC - BATHROOM - K 423		400			20	35			X	36	20			400		REC - BATHROOM - QQ 426
REC - MICROWAVE - K 423		700			20	37	X			38	20			700		REC - MICROWAVE - QQ 426
REC - COFFEE - K 423		800			20	39		X		40	20			800		REC - COFFEE - QQ 426
REC/LTG - K 425		750			20	41			X	42	20			750		REC/LTG - QQ 428
REC/LTG - K 425		600			20	43	X			44	20			600		REC/LTG - QQ 428
REC - BATHROOM - K 425		400			20	45		X		46	20			400		REC - BATHROOM - QQ 428
REC - MICROWAVE - K 425		700			20	47			X	48	20			700		REC - MICROWAVE - QQ 428
REC - COFFEE - K 425		800			20	49	X			50	20			800		REC - COFFEE - QQ 428
REC/LTG - K 427		750			20	51		X		52	20			750		REC/LTG - QQ 430
REC/LTG - K 427		600			20	53			X	54	20			600		REC/LTG - QQ 430
REC - BATHROOM - K 427		400			20	55	X			56	20			400		REC - BATHROOM - QQ 430
REC - MICROWAVE - K 427		700			20	57		X		58	20			700		REC - MICROWAVE - QQ 430
REC - COFFEE - K 427		800			20	59			X	60	20			800		REC - COFFEE - QQ 430
REC/LTG - K 429		750			20	61	X			62	20			750		REC/LTG - K WIDE ACC 431
REC/LTG - K 429		600			20	63		X		64	20			600		REC/LTG - K WIDE ACC 431
REC - BATHROOM - K 429		400			20	65			X	66	20			400		REC - BATHROOM - K WIDE ACC 431
REC - MICROWAVE - K 429		700			20	67	X			68	20			700		REC - MICROWAVE - K WIDE ACC 431
REC - COFFEE - K 429		800			20	69		X		70	20			800		REC - COFFEE - K WIDE ACC 431
REC - CORRIDOR		1260			20	71			X	72	20					SPARE
ECUH-1 - HSKG LVL4				1500	20	73	X			74	20					SPARE
				1500		75		X		76	20					SPARE
SPARE					20	77			X	78	20					SPARE
SPARE					20	79	X			80	20					SPARE
SPACE					--	81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
180VA Receptacle Load (Volt-Amps)	15900	15800	15060	46760	1.00 (First 10kVA)	3400	3379	3221	10000
	Amount over 10kVA			36760	0.50 (> 10kVA)	6250	6211	5920	18380
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
Non-Continuous Load (Volt-Amps)	1500	1500	0	3000	1.00	1500	1500	0	3000
Total Load (kVA)	17.40	17.30	15.06	49.76	125% of Light/Cont and Recept	11.15	11.09	9.14	31.38
Total Ampacity (Amps)	144.9	144.1	125.4	138.1	(<10kVA) load plus other load	92.8	92.3	76.1	87.1
Minimum Feeder Sizing (Amps)	152.0	151.1	132.1	145.1	<---- per NEC Article 215.2 ---->	99.9	99.4	82.8	94.0

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

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Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · SCOTT STRICKEN TOWNSEND · LICENSED PROFESSIONAL ENGINEER · 088076
04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
ELECTRICAL PANEL SCHEDULES

DO NOT SCALE DRAWINGS

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Project No. :
2018.009

Sheet No. :
E602

Panel Designation: HR4C

Panel Location: ELEC. EC2	Main: MLO	P-P Voltage: 208	
Fed From: MDP	Bussing: 225A	P-N Voltage: 120	
Feeder Size: REFER TO RISER DIAGRAM	Ground Bus: STANDARD	Phase: 3	
	Mounting: SURFACE	Wire: 4	
	Neutral: 100%	Min SC Interrupting Rating: 42K	

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
MECHANICAL UNIT - K WIDE 402				1300	15	1	X			2	15	1300				MECHANICAL UNIT - K 417
				1300		3		X		4		1300				
MECHANICAL UNIT - K 403				1300	15	5			X	6	15	1300				MECHANICAL UNIT - K 419
				1300		7	X			8		1300				
MECHANICAL UNIT - QQ 404				1300	15	9		X		10	15	1300				MECHANICAL UNIT - (HA) QQ 420
				1300		11			X	12		1300				
MECHANICAL UNIT - K 405				1300	15	13	X			14	15	1300				MECHANICAL UNIT - K 421
				1300		15		X		16		1300				
MECHANICAL UNIT - QQ 406				1300	15	17			X	18	15	1300				MECHANICAL UNIT - QQ 422
				1300		19	X			20		1300				
MECHANICAL UNIT - (HA) K 407				1300	15	21		X		22	15	1300				MECHANICAL UNIT - K 423
				1300		23			X	24		1300				
MECHANICAL UNIT - K 408				1300	15	25	X			26	15	1300				MECHANICAL UNIT - QQ 424
				1300		27		X		28		1300				
MECHANICAL UNIT - K SUITE 409				1300	15	29			X	30	15	1300				MECHANICAL UNIT - K 425
				1300		31	X			32		1300				
MECHANICAL UNIT - QQ (ACC) 410				1300	15	33		X		34	15	1300				MECHANICAL UNIT - QQ 426
				1300		35			X	36		1300				
MECHANICAL UNIT - K SUITE 411				1300	15	37	X			38	15	1300				MECHANICAL UNIT - K 427
				1300		39		X		40		1300				
MECHANICAL UNIT - QQ SUITE 412				1300	15	41			X	42	15	1300				MECHANICAL UNIT - QQ 428
				1300		43	X			44		1300				
MECHANICAL UNIT - (HA) K SUITE 413				1300	15	45		X		46	15	1300				MECHANICAL UNIT - K 429
				1300		47			X	48		1300				
MECHANICAL UNIT - QQ SUITE 414				1300	15	49	X			50	15	1300				MECHANICAL UNIT - QQ 430
				1300		51		X		52		1300				
MECHANICAL UNIT - K 415				1300	15	53			X	54	15	1300				MECHANICAL UNIT - K WIDE ACC 431
				1300		55	X			56		1300				
VTAC-A - CORRIDOR				1310	15	57		X		58	20	400				DUCT SMOKE - LVL4
				1310		59			X	60	20	100				FAA - LVL4
VTAC-A - CORRIDOR				1310	15	61	X			62	20	400				DUCT SMOKE - LVL4
				1310		63		X		64	--					SPACE
SPACE					--	65			X	66	--					SPACE
SPACE					--	67	X			68	--					SPACE
SPACE					--	69		X		70	--					SPACE
SPACE					--	71			X	72	--					SPACE
SPACE					--	73	X			74	--					SPACE
SPACE					--	75		X		76	--					SPACE
SPACE					--	77			X	78	--					SPACE
HR4A	1137	15900	0	1500	200	79	X			80	200	1500	0	15900	0	HR4B
	0	15800	0	0		81		X		82		1500	0	15800	0	
	0	14880	0	0		83			X	84		0	0	15060	0	

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total	
Lighting or Continous Load (Volt-Amps)	1137	0	0	1137	1.00	1137	0	0	1137	
180VA Receptacle Load (Volt-Amps)	31800	31600	29940	93340	1.00 (First 10kVA)	3407	3385	3208	10000	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.
	Amount over 10kVA			83340	0.50 (> 10kVA)	14197	14107	13366	41670	
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
Non-Continuous Load (Volt-Amps)	30710	27921	24810	83442	1.00	30710	27921	24810	83442	
Total Load (kVA)	63.65	59.52	54.75	177.92	125% of Light/Cont and Recept	49.45	45.41	41.38	136.25	
Total Ampacity (Amps)	530.0	495.6	455.9	493.8	(<10kVA) load plus other load	411.8	378.2	344.6	378.2	
Minimum Feeder Sizing (Amps)	539.4	502.7	462.6	501.6	<---- per NEC Article 215.2 ---->	421.2	385.2	351.3	385.9	

Panel Designation: HR5A

Panel Location: ELEC. EC5	Main: MLO	P-P Voltage: 208	
Fed From: MDP	Bussing: 225A	P-N Voltage: 120	
Feeder Size: REFER TO RISER DIAGRAM	Ground Bus: STANDARD	Phase: 3	
	Mounting: SURFACE	Wire: 4	
	Neutral: 100%	Min SC Interrupting Rating: 42k	

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 503		750			20	1	X			2	20			750		REC/LTG - K WIDE 502
REC/LTG - K 503		600			20	3		X		4	20			600		REC/LTG - K WIDE 502
REC - BATHROOM - K 503		400			20	5			X	6	20			400		REC - BATHROOM - K WIDE 502
REC - MICROWAVE - K 503		700			20	7	X			8	20			700		REC - MICROWAVE - K WIDE 502
REC - COFFEE - K 503		800			20	9		X		10	20			800		REC - COFFEE - K WIDE 502
REC/LTG - K 505		750			20	11			X	12	20			750		REC/LTG - QQ 504
REC/LTG - K 505		600			20	13	X			14	20			600		REC/LTG - QQ 504
REC - BATHROOM - K 505		400			20	15		X		16	20			400		REC - BATHROOM - QQ 504
REC - MICROWAVE - K 505		700			20	17			X	18	20			700		REC - MICROWAVE - QQ 504
REC - COFFEE - K 505		800			20	19	X			20	20			800		REC - COFFEE - QQ 504
REC/LTG - K 507		750			20	21		X		22	20			750		REC/LTG - QQ 506
REC/LTG - K 507		600			20	23			X	24	20			600		REC/LTG - QQ 506
REC - BATHROOM - K 507		400			20	25	X			26	20			400		REC - BATHROOM - QQ 506
REC - MICROWAVE - K 507		700			20	27		X		28	20			700		REC - MICROWAVE - QQ 506
REC - COFFEE - K 507		800			20	29			X	30	20			800		REC - COFFEE - QQ 506
REC/LTG - K SUITE 509		750			20	31	X			32	20			750		REC/LTG - QQ 508
REC/LTG - K SUITE 509		600			20	33		X		34	20			600		REC/LTG - QQ 508
REC - BATHROOM - K SUITE 509		400			20	35			X	36	20			400		REC - BATHROOM - QQ 508
REC - MICROWAVE - K SUITE 509		700			20	37	X			38	20			700		REC - MICROWAVE - QQ 508
REC - COFFEE - K SUITE 509		800			20	39		X		40	20			800		REC - COFFEE - QQ 508
REC/LTG - K SUITE 511		750			20	41			X	42	20			750		REC/LTG - QQ SUITE 510
REC/LTG - K SUITE 511		600			20	43	X			44	20			600		REC/LTG - QQ SUITE 510
REC - BATHROOM - K SUITE 511		400			20	45		X		46	20			400		REC - BATHROOM - QQ SUITE 510
REC - MICROWAVE - K SUITE 511		700			20	47			X	48	20			700		REC - MICROWAVE - QQ SUITE 510
REC - COFFEE - K SUITE 511		800			20	49	X			50	20			800		REC - COFFEE - QQ SUITE 510
REC/LTG - K SUITE 513		750			20	51		X		52	20			750		REC/LTG - QQ SUITE 512
REC/LTG - K SUITE 513		600			20	53			X	54	20			600		REC/LTG - QQ SUITE 512
REC - BATHROOM - K SUITE 513		400			20	55	X			56	20			400		REC - BATHROOM - QQ SUITE 512
REC - MICROWAVE - K SUITE 513		700			20	57		X		58	20			700		REC - MICROWAVE - QQ SUITE 512
REC - COFFEE - K SUITE 513		800			20	59			X	60	20			800		REC - COFFEE - QQ SUITE 512
REC/LTG - K 515		750			20	61	X			62	20			750		REC/LTG - (HA) QQ SUITE 514
REC/LTG - K 515		600			20	63		X		64	20			600		REC/LTG - (HA) QQ SUITE 514
REC - BATHROOM - K 515		400			20	65			X	66	20			400		REC - BATHROOM - (HA) QQ SUITE 514
REC - MICROWAVE - K 515		700			20	67	X			68	20			700		REC - MICROWAVE - (HA) QQ SUITE 514
REC - COFFEE - K 515		800			20	69		X		70	20			800		REC - COFFEE - (HA) QQ SUITE 514
REC - CORRIDOR		900			20	71			X	72	20			180		REC - ICE MACHINE
REC - ROOF MAINTENANCE		540			20	73	X			74	20	1500				FFH-1 - ELEV LOBBY
LTG - LVL5 CORRIDORS	1137				20	75		X		76	--					SPACE
SPACE					--	77			X	78	--					SPACE
SPACE					--	79	X			80	--					SPACE
SPACE					--	81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total	
Lighting or Continous Load (Volt-Amps)	0	1137	0	1137	1.00	0	1137	0	1137	
180VA Receptacle Load (Volt-Amps)	16440	15800	14880	47120	1.00 (First 10kVA)	3489	3353	3158	10000	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.
	Amount over 10kVA			37120	0.50 (> 10kVA)	6476	6223	5861	18560	
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
Non-Continuous Load (Volt-Amps)	1500	0	0	1500	1.00	1500	0	0	1500	
Total Load (kVA)	17.94	16.94	14.88	49.76	125% of Light/Cont and Recept	11.46	10.71	9.02	31.20	
Total Ampacity (Amps)	149.4	141.0	123.9	138.1	(<10kVA) load plus other load	95.5	89.2	75.1	86.6	
Minimum Feeder Sizing (Amps)	156.6	150.4	130.5	145.8	<---- per NEC Article 215.2 ---->	102.7	98.6	81.7	94.3	

Panel Designation: HR5B

Panel Location: ELEC. EC5	Main: MLO	P-P Voltage: 208	
Fed From: MDP	Bussing: 225A	P-N Voltage: 120	
Feeder Size: REFER TO RISER DIAGRAM	Ground Bus: STANDARD	Phase: 3	
	Mounting: SURFACE	Wire: 4	
	Neutral: 100%	Min SC Interrupting Rating: 42k	

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
REC/LTG - K 517		750			20	1	X			2	20			750		REC/LTG - (HA) ACC QQ 520
REC/LTG - K 517		600			20	3		X		4	20			600		REC/LTG - (HA) ACC QQ 520
REC - BATHROOM - K 517		400			20	5			X	6	20			400		REC - BATHROOM - (HA) ACC QQ 520
REC - MICROWAVE - K 517		700			20	7	X			8	20			700		REC - MICROWAVE - (HA) ACC QQ 520
REC - COFFEE - K 517		800			20	9		X		10	20			800		REC - COFFEE - (HA) ACC QQ 520
REC/LTG - K 519		750			20	11			X	12	20			750		REC/LTG - QQ 522
REC/LTG - K 519		600			20	13	X			14	20			600		REC/LTG - QQ 522
REC - BATHROOM - K 519		400			20	15		X		16	20			400		REC - BATHROOM - QQ 522
REC - MICROWAVE - K 519		700			20	17			X	18	20			700		REC - MICROWAVE - QQ 522
REC - COFFEE - K 519		800			20	19	X			20	20			800		REC - COFFEE - QQ 522
REC/LTG - K 521		750			20	21		X		22	20			750		REC/LTG - QQ 524
REC/LTG - K 521		600			20	23			X	24	20			600		REC/LTG - QQ 524
REC - BATHROOM - K 521		400			20	25	X			26	20			400		REC - BATHROOM - QQ 524
REC - MICROWAVE - K 521		700			20	27		X		28	20			700		REC - MICROWAVE - QQ 524
REC - COFFEE - K 521		800			20	29			X	30	20			800		REC - COFFEE - QQ 524
REC/LTG - K 523		750			20	31	X			32	20			750		REC/LTG - QQ 526
REC/LTG - K 523		600			20	33		X		34	20			600		REC/LTG - QQ 526
REC - BATHROOM - K 523		400			20	35			X	36	20			400		REC - BATHROOM - QQ 526
REC - MICROWAVE - K 523		700			20	37	X			38	20			700		REC - MICROWAVE - QQ 526
REC - COFFEE - K 523		800			20	39		X		40	20			800		REC - COFFEE - QQ 526
REC/LTG - K 525		750			20	41			X	42	20			750		REC/LTG - QQ 528
REC/LTG - K 525		600			20	43	X			44	20			600		REC/LTG - QQ 528
REC - BATHROOM - K 525		400			20	45		X		46	20			400		REC - BATHROOM - QQ 528
REC - MICROWAVE - K 525		700			20	47			X	48	20			700		REC - MICROWAVE - QQ 528
REC - COFFEE - K 525		800			20	49	X			50	20			800		REC - COFFEE - QQ 528
REC/LTG - K 527		750			20	51		X		52	20			750		REC/LTG - QQ 530
REC/LTG - K 527		600			20	53			X	54	20			600		REC/LTG - QQ 530
REC - BATHROOM - K 527		400			20	55	X			56	20			400		REC - BATHROOM - QQ 530
REC - MICROWAVE - K 527		700			20	57		X		58	20			700		REC - MICROWAVE - QQ 530
REC - COFFEE - K 527		800			20	59			X	60	20			800		REC - COFFEE - QQ 530
REC/LTG - K 529		750			20	61	X			62	20			750		REC/LTG - K WIDE 531
REC/LTG - K 529		600			20	63		X		64	20			600		REC/LTG - K WIDE 531
REC - BATHROOM - K 529		400			20	65			X	66	20			400		REC - BATHROOM - K WIDE 531
REC - MICROWAVE - K 529		700			20	67	X			68	20			700		REC - MICROWAVE - K WIDE 531
REC - COFFEE - K 529		800			20	69		X		70	20			800		REC - COFFEE - K WIDE 531
REC - CORRIDOR		1260			20	71			X	72	20	400				DUCT SMOKE - LVL5
ECUH-1 - HSKG LVL5				1500	20	73	X			74	20					SPARE
				1500		75		X		76	20					SPARE
SPARE					20	77			X	78	20					SPARE
SPARE					20	79	X			80	20					SPARE
SPACE					--	81		X		82	--					SPACE
SPACE					--	83			X	84	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total	
Lighting or Continous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
180VA Receptacle Load (Volt-Amps)	15900	15800	15060	46760	1.00 (First 10kVA)	3400	3379	3221	10000	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.
	Amount over 10kVA			36760	0.50 (> 10kVA)	6250	6211	5920	18380	
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
Non-Continuous Load (Volt-Amps)	1500	1500	400	3400	1.00	1500	1500	400	3400	
Total Load (kVA)	17.40	17.30	15.46	50.16	125% of Light/Cont and Recept	11.15	11.09	9.54	31.78	
Total Ampacity (Amps)	144.9	144.1	128.7	139.2	(<10kVA) load plus other load	92.8	92.3	79.4	88.2	
Minimum Feeder Sizing (Amps)	152.0	151.1	135.4	146.2	<---- per NEC Article 215.2 ---->	99.9	99.4	86.1	95.1	

Panel Designation: HR5C

Panel Location: ELEC. EC2	Main: MLO	P-P Voltage: 208	
Fed From: MDP	Bussing: 225A	P-N Voltage: 120	
Feeder Size: REFER TO RISER DIAGRAM	Ground Bus: STANDARD	Phase: 3	
	Mounting: SURFACE	Wire: 4	
	Neutral: 100%	Min SC Interrupting Rating: 42k	

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
MECHANICAL UNIT - K WIDE 502				1300	15	1	X			2	15	1300				MECHANICAL UNIT - K 517
				1300		3		X		4		1300				
MECHANICAL UNIT - K 503				1300	15	5			X	6	15	1300				MECHANICAL UNIT - K 519
				1300		7	X			8		1300				
MECHANICAL UNIT - QQ 504				1300	15	9		X		10	15	1300				MECHANICAL UNIT - (HA) ACC QQ 520
				1300		11			X	12		1300				
MECHANICAL UNIT - K 505				1300	15	13	X			14	15	1300				MECHANICAL UNIT - K 521
				1300		15		X		16		1300				
MECHANICAL UNIT - QQ 506				1300	15	17			X	18	15	1300				MECHANICAL UNIT - QQ 522
				1300		19	X			20		1300				
MECHANICAL UNIT - K 507				1300	15	21		X		22	15	1300				MECHANICAL UNIT - K 523
				1300		23			X	24		1300				
MECHANICAL UNIT - QQ 508				1300	15	25	X			26	15	1300				MECHANICAL UNIT - QQ 524
				1300		27		X		28		1300				
MECHANICAL UNIT - K SUITE 509				1300	15	29			X	30	15	1300				MECHANICAL UNIT - K 525
				1300		31	X			32		1300				
MECHANICAL UNIT - QQ SUITE 510				1300	15	33		X		34	15	1300				MECHANICAL UNIT - QQ 526
				1300		35			X	36		1300				
MECHANICAL UNIT - K SUITE 511				1300	15	37	X			38	15	1300				MECHANICAL UNIT - K 527
				1300		39		X		40		1300				
MECHANICAL UNIT - QQ SUITE 512				1300	15	41			X	42	15	1300				MECHANICAL UNIT - QQ 528
				1300		43	X			44		1300				
MECHANICAL UNIT - K SUITE 513				1300	15	45		X		46	15	1300				MECHANICAL UNIT - K 529
				1300		47			X	48		1300				
MECHANICAL UNIT - (HA) QQ SUITE 514				1300	15	49	X			50	15	1300				MECHANICAL UNIT - QQ 530
				1300		51		X		52		1300				
MECHANICAL UNIT - K 515				1300	15	53			X	54	15	1300				MECHANICAL UNIT - K WIDE 531
				1300		55	X			56		1300				
RTU-1 - ROOF				4383	60	57		X		58	45	3120				PDU-1 - ROOF
				4383		59			X	60		3120				
				4383		61	X			62		3120				
VTAC-A - CORRIDOR				1310	15	63		X		64	20	100				DUCT SMOKE - LVL5
				1310		65			X	66	20	1176				REF-1 - ROOF
VTAC-A - CORRIDOR				1310	15	67	X			68	15	528				REF-3 - ROOF
				1310		69		X		70	20	1176				REF-2 - ROOF
ODU-1 - ROOF				1352	15	71			X	72	20	100				FAA - LVL5
				1352		73	X			74	--					SPACE
ODU-2 - ROOF				1352	15	75		X		76	--					SPACE
				1352		77			X	78	--					SPACE
HR5A	0	16440	0	1500	200	79	X			80	200	1500	0	15900	0	HR5B
	1137	15800	0	0		81		X		82		1500	0	15800	0	
	0	14880	0	0		83			X	84		400	0	15060	0	

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total	
Lighting or Continous Load (Volt-Amps)	0	1137	0	1137	1.00	0	1137	0	1137	
180VA Receptacle Load (Volt-Amps)	32340	31600	29940	93880	1.00 (First 10kVA)	3445	3366	3189	10000	Receptacle Demand Factor per Article 220.44 of the National Electrical Code.
	Amount over 10kVA			83880	0.50 (> 10kVA)	14448	14117	13375	41940	
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0	
Non-Continuous Load (Volt-Amps)	39694	37652	36594	113939	1.00	39694	37652	36594	113939	
Total Load (kVA)	72.03	70.39	66.53	208.96	125% of Light/Cont and Recept	57.59	56.27	53.16	167.02	
Total Ampacity (Amps)	599.8	586.1	554.0	580.0	(<10kVA) load plus other load	479.5	468.6	442.6	463.6	
Minimum Feeder Sizing (Amps)	607.0	595.5	560.7	587.7	<---- per NEC Article 215.2 ---->	486.7	477.9	449.3	471.3	

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SES Project # 20 0262 02

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · SCOTT KRICKENTOWNSEND · 088076 · LICENSED PROFESSIONAL ENGINEER
04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
ELECTRICAL PANEL SCHEDULES

Project No. :
2018.009

Sheet No. :
E603

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PATH: S:\20 0262 02 HOLIDAY INN EXP NY\CAD\ELEC\20026202_E602.DWG
PLOT DATE: 4/30/2021 11:00 AM

Panel Designation: HR1K
Panel Location: PANTRY
Fed From: MDP
Feeder Size: REFER TO RISER DIAGRAM

Main: MLO
Bussing: 225A
Ground Bus: STANDARD
Mounting: SURFACE
Neutral: 100%

P-P Voltage: 208
P-N Voltage: 120
Phase: 3
Wire: 4
Min SC Interrupting Rating: 65K

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
GFCI REC - RANGE				1921	20	1	X			2	40	3120				GFCI REC - DISHWASHER
				1921		3		X		4		3120				
				1921		5			X	6	30	2860				REC - COFFEE MAKER
GFCI REC - REFIRGERATOR		648			20	7	X			8		2860				
GFCI REC - FREEZER		1152			20	9		X		10	20			360		REC - ABOVE COUNTER KITCHEN
GREASE INTERCEPTOR CTRL PNL				100	20	11			X	12	20			360		REC - ABOVE COUNTER KITCHEN
SPARE					20	13	X			14	20					SPARE
GFCI REC - ABOVE CABINET REFRIGERATOR		500			20	15		X		16	20			180		REC - ABOVE COUNTER BREAKFAST
REC - ABOVE COUNTER BREAKFAST		180			20	17			X	18	20			180		REC - ABOVE COUNTER BREAKFAST
REC - ABOVE COUNTER BREAKFAST		180			20	19	X			20	20			180		REC - ABOVE COUNTER BREAKFAST
REC - ABOVE COUNTER BREAKFAST		180			20	21		X		22	20			180		REC - ABOVE COUNTER BREAKFAST
REC - ABOVE COUNTER BREAKFAST		180			20	23			X	24	20					SPARE
REC - ABOVE COUNTER BREAKFAST		180			20	25	X			26	20			180		REC - ABOVE COUNTER BREAKFAST
REC - KITCHEN, PANTRY GENERAL USE		720			20	27		X		28	20			180		REC - ABOVE COUNTER BREAKFAST
REC - ABOVE COUNTER BREAKFAST		180			20	29			X	30	20	1200				EF-1 - KITCHEN
LTG - KITCHEN, PANTRY	788				20	31	X			32	20	1656				GFCI REC - ICE MACHINE
SPACE					--	33		X		34	--					SPACE
SPACE					--	35			X	36	--					SPACE
SPACE					--	37	X			38	--					SPACE
SPACE					--	39		X		40	--					SPACE
SPACE					--	41			X	42	--					SPACE

Load Description	Connected Load ØA	ØB	ØC	Total	Demand Factor	Demand Load ØA	ØB	ØC	Total
Lighting or Continous Load (Volt-Amps)	788	0	0	788	1.00	788	0	0	788
180VA Receptacle Load (Volt-Amps)	1368	3452	1080	5900	1.00 (First 10kVA)	1368	3452	1080	5900
	Amount over 10kVA			*0*	0.50 (> 10kVA)	0	0	0	0
Continuous Load (Volt-Amps)	0	0	0	0	1.00	0	0	0	0
Non-Continuous Load (Volt-Amps)	9557	5041	6081	20680	1.00	9557	5041	6081	20680
Total Load (kVA)	11.71	8.49	7.16	27.37	125% of Light/Cont and Recept	11.71	8.49	7.16	27.37
Total Ampacity (Amps)	97.5	70.7	59.6	76.0	(<10kVA) load plus other load	97.5	70.7	59.6	76.0
Minimum Feeder Sizing (Amps)	102.0	77.9	61.9	80.6	<---- per NEC Article 215.2 ---->	102.0	77.9	61.9	80.6

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.

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Holiday Inn Express & Suites

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ROCKLAND COUNTY, NY
10954

Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOMAS · 098076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
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Checked by :

Sheet Title :
ELECTRICAL PANEL SCHEDULES

Project No. :
2018.009

Sheet No. :
E604

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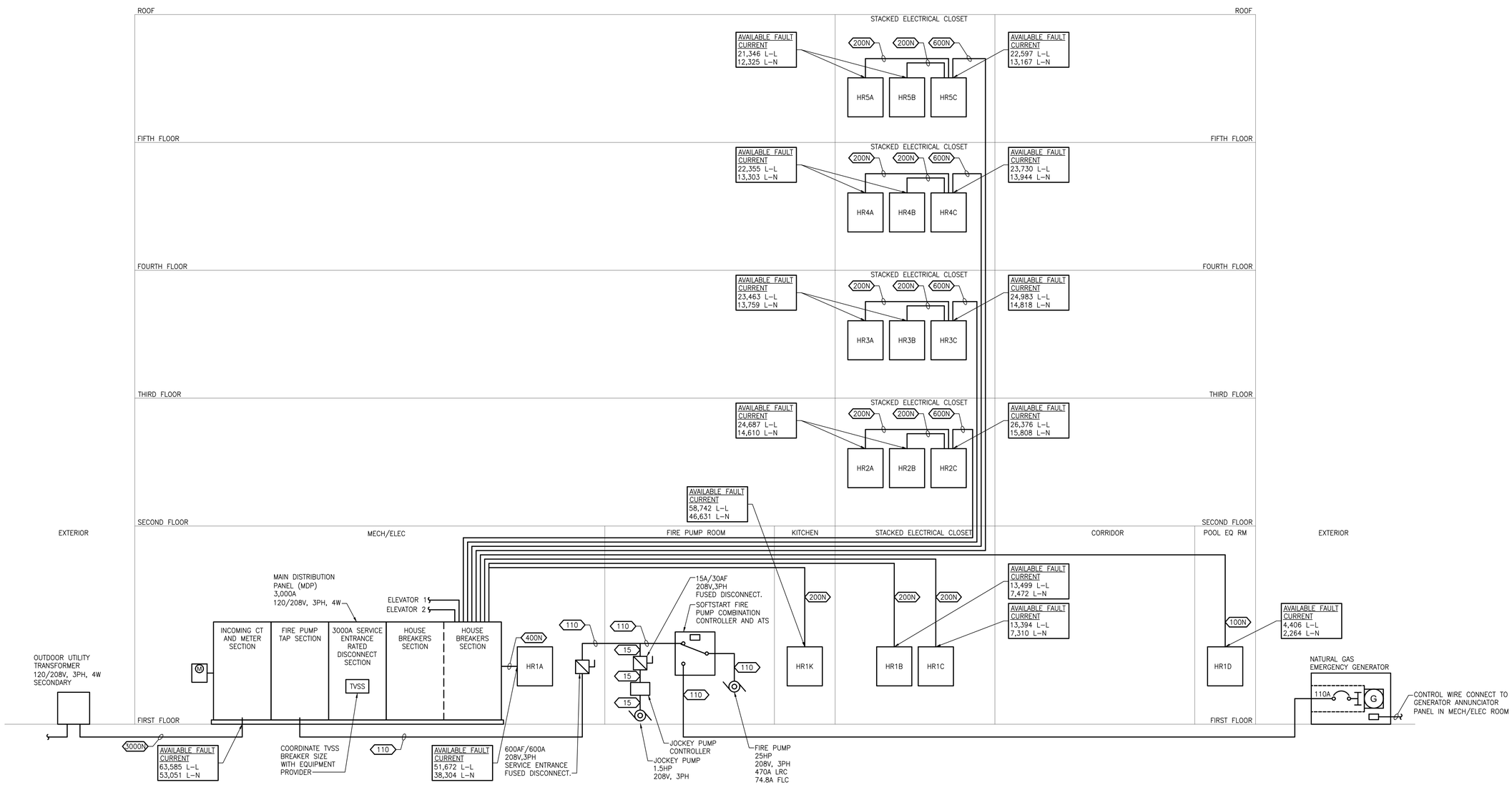
PATH: S:\20 0262 02 HOLIDAY INN EXP NY\CAD\ELEC\20026202_E604.DWG
PLOT DATE: 4/30/2021 11:00 AM

NATURAL GAS GENERATOR PERFORMANCE REQUIREMENTS

BASIS OF DESIGN:	KG45 WITH A 4P8X ALTERNATOR
RUNNING KW:	21.07
RUNNING KVA:	25.7
RUNNING PF:	0.82
MAX START KW:	24.99 IN STEP 1
MAX START KVA:	59.5 IN STEP 1
VOLTAGE DIP:	30.00%
FREQUENCY DIP:	15.00%
VOLTAGE HARMONIC DISTORTION:	10.00%
MAX LOAD:	90.00%
MIN LOAD:	25.00%

LOAD PROFILE:				MOTOR STARTER:
STEP 1:	25 HP FIRE PUMP			SOFTSTART

NOTE: ALTERNATIVE LISTED ACCEPTABLE MANUFACTURER'S GENERATOR SETS MUST MEET OR EXCEED THE PERFORMANCE REQUIREMENTS AS SHOWN ABOVE. GENERATORS WITH RATED OUTPUTS HIGHER OR LOWER THAN THE BASIS OF DESIGN WILL BE ACCEPTABLE PROVIDED THEY MEET THE METRICS LISTED.



ELECTRICAL RISER DIAGRAM

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Issued for :
BIDS/PERMITS 04.30.21

STATE OF NEW YORK · PATRICKEN TOWNSEND · 088078 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
ELECTRICAL RISER DIAGRAM

Project No. :
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Sheet No. :
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PLOT DATE: 4/30/2021 11:00 AM

COPPER FEEDER SCHEDULE

FEEDER (AMPS)	COND. SIZE	2 WIRE WITH GROUND	FEEDER (AMPS)	COND. SIZE	3 WIRE WITH GROUND	FEEDER (AMPS)	COND. SIZE	4 WIRE WITH GROUND
15S	12	2#12, 1#12 GND IN 3/4"C	15	12	3#12, 1#12 GND IN 3/4"C	15N	12	4#12, 1#12 GND IN 3/4"C
20S	12	2#12, 1#12 GND IN 3/4"C	20	12	3#12, 1#12 GND IN 3/4"C	20N	12	4#12, 1#12 GND IN 3/4"C
25S	10	2#10, 1#10 GND IN 3/4"C	25	10	3#10, 1#10 GND IN 3/4"C	25N	10	4#10, 1#10 GND IN 3/4"C
30S	10	2#10, 1#10 GND IN 3/4"C	30	10	3#10, 1#10 GND IN 3/4"C	30N	10	4#10, 1#10 GND IN 3/4"C
35S	8	2#8, 1#10 GND IN 3/4"C	35	8	3#8, 1#10 GND IN 3/4"C	35N	8	4#8, 1#10 GND IN 3/4"C
40S	8	2#8, 1#10 GND IN 3/4"C	40	8	3#8, 1#10 GND IN 3/4"C	40N	8	4#8, 1#10 GND IN 3/4"C
45S	6	2#6, 1#10 GND IN 3/4"C	45	6	3#6, 1#10 GND IN 3/4"C	45N	6	4#6, 1#10 GND IN 1"C
50S	6	2#6, 1#10 GND IN 3/4"C	50	6	3#6, 1#10 GND IN 3/4"C	50N	6	4#6, 1#10 GND IN 1"C
60S	4	2#4, 1#10 GND IN 1"C	60	4	3#4, 1#10 GND IN 1"C	60N	4	4#4, 1#10 GND IN 1 1/4"C
70S	4	2#4, 1#8 GND IN 1"C	70	4	3#4, 1#8 GND IN 1"C	70N	4	4#4, 1#8 GND IN 1 1/4"C
80S	3	2#3, 1#8 GND IN 1"C	80	3	3#3, 1#8 GND IN 1"C	80N	3	4#3, 1#8 GND IN 1 1/4"C
90S	2	2#2, 1#8 GND IN 1"C	90	2	3#2, 1#8 GND IN 1 1/4"C	90N	2	4#2, 1#8 GND IN 1 1/2"C
100S	1	2#1, 1#8 GND IN 1 1/4"C	100	1	3#1, 1#8 GND IN 1 1/4"C	100N	1	4#1, 1#8 GND IN 1 1/2"C
110S	2	2#2, 1#6 GND IN 1"C	110	2	3#2, 1#6 IN 1 1/4"C	110N	2	4#2, 1#6 GND IN 1 1/4"C
125S	1	2#1, 1#6 GND IN 1 1/4"C	125	1	3#1, 1#6 GND IN 1 1/4"C	125N	1	4#1, 1#6 GND IN 1 1/2"C
150S	1/0	2#1/0, 1#6 GND IN 1 1/4"C	150	1/0	3#1/0, 1#6 GND IN 1 1/2"C	150N	1/0	4#1/0, 1#6 GND IN 2"C
175S	2/0	2#2/0, 1#6 GND IN 1 1/2"C	175	2/0	3#2/0, 1#6 GND IN 1 1/2"C	175N	2/0	4#2/0, 1#6 GND IN 2"C
200S	3/0	2#3/0, 1#6 GND IN 1 1/2"C	200	3/0	3#3/0, 1#6 GND IN 2"C	200N	3/0	4#3/0, 1#6 GND IN 2"C
225S	4/0	2#4/0, 1#4 GND IN 2"C	225	4/0	3#4/0, 1#4 GND IN 2"C	225N	4/0	4#4/0, 1#4 GND IN 2 1/2"C
250S	250	2-250 KCMIL, 1#4 GND IN 2"C	250	250	3-250 KCMIL, 1#4 GND IN 2"C	250N	250	4-250 KCMIL, 1#4 GND IN 2 1/2"C
300S	350	2-350 KCMIL, 1#4 GND IN 2 1/2"C	300	350	3-350 KCMIL, 1#4 GND IN 2"C	300N	350	4-350 KCMIL, 1#4 GND IN 3"C
350S	500	2-500 KCMIL, 1#3 GND IN 3"C	350	500	3-500 KCMIL, 1#3 GND IN 3"C	350N	500	4-500 KCMIL, 1#3 GND IN 3 1/2"C
400S	600	2-600 KCMIL, 1#3 GND IN 3"C	400	600	3-600 KCMIL, 1#3 GND IN 3 1/2"C	400N	600	4-600 KCMIL, 1#3 GND IN 4"C
450S	2-4/0	(2) 2#4/0, 1#2 GND IN 2"C	450	2-4/0	(2) 3#4/0, 1#2 GND IN 2"C	450N	2-4/0	(2) 4#4/0, 1#2 GND IN 2 1/2"C
500S	2-250	(2) 2-250 KCMIL, 1#2 GND IN 2"C	500	2-250	(2) 3-250 KCMIL, 1#2 GND IN 2 1/2"C	500N	2-250	(2) 4-250 KCMIL, 1#1 GND IN 3"C
600S	2-350	(2) 2-350 KCMIL, 1#1 GND IN 2 1/2"C	600	2-350	(2) 3-350 KCMIL, 1#1 GND IN 2 1/2"C	600N	2-350	(2) 4-350 KCMIL, 1#1 GND IN 3"C
700S	2-500	(2) 2-500 KCMIL, 1#1/0 GND IN 3"C	700	2-500	(2) 3-500 KCMIL, 1#1/0 GND IN 3"C	700N	2-500	(2) 4-500 KCMIL, 1#1/0 GND IN 3 1/2"C
800S	2-600	(2) 2-600 KCMIL, 1#1/0 GND IN 3"C	800	2-600	(2) 3-600 KCMIL, 1#1/0 GND IN 3 1/2"C	800N	2-600	(2) 4-600 KCMIL, 1#1/0 GND IN 4"C
1000S	3-500	(3) 2-500 KCMIL, 1#2/0 GND IN 3"C	1000	3-500	(3) 3-500 KCMIL, 1#2/0 GND IN 3"C	1000N	3-500	(3) 4-500 KCMIL, 1#2/0 GND IN 3 1/2"C
1200S	3-600	(3) 2-600 KCMIL, 1#3/0 GND IN 4"C	1200	3-600	(3) 3-600 KCMIL, 1#3/0 GND IN 4"C	1200N	3-600	(3) 4-600 KCMIL, 1#3/0 GND IN 4"C
1600S	4-600	(4) 2-600 KCMIL, 1#4/0 GND IN 4"C	1600	4-600	(4) 3-600 KCMIL, 1#4/0 GND IN 4"C	1600N	4-600	(4) 4-600 KCMIL, 1#4/0 GND IN 4"C
2000S	5-600	(5) 2-600 KCMIL, 1-250 KCMIL GND IN 4"C	2000	5-600	(5) 3-600 KCMIL, 1-250 KCMIL GND IN 4"C	2000N	5-600	(5) 4-600 KCMIL, 1-250 KCMIL GND IN 4"C
2500S	7-500	(7) 2-500 KCMIL, 1-350 KCMIL GND IN 3 1/2"C	2500	7-500	(7) 3-500 KCMIL, 1-350 KCMIL GND IN 3 1/2"C	2500N	7-500	(7) 4-500 KCMIL, 1-350 KCMIL GND IN 3 1/2"C
3000S	8-500	(8) 2-500 KCMIL, 1-400 KCMIL GND IN 3 1/2"C	3000	8-500	(8) 3-500 KCMIL, 1-400 KCMIL GND IN 3 1/2"C	3000N	8-500	(8) 4-500 KCMIL, 1-400 KCMIL GND IN 3 1/2"C
4000S	10-600	(10) 2-600 KCMIL, 1-500 KCMIL GND IN 4"C	4000	10-600	(10) 3-600 KCMIL, 1-500 KCMIL GND IN 4"C	4000N	10-600	(10) 4-600 KCMIL, 1-500 KCMIL GND IN 4"C
5000S	12-600	(12) 2-600 KCMIL, 1-700 KCMIL GND IN 4"C	5000	12-600	(12) 3-600 KCMIL, 1-700 KCMIL GND IN 4"C	5000N	12-600	(12) 4-600 KCMIL, 1-700 KCMIL GND IN 4"C
6000S	15-600	(15) 2-600 KCMIL, 1-500 KCMIL GND IN 4"C	6000	15-600	(15) 3-600 KCMIL, 1-500 KCMIL GND IN 4"C	6000N	15-600	(15) 4-600 KCMIL, 1-800 KCMIL GND IN 4"C

NOTES:

1. AMPACITIES FOR FEEDER SIZES ARE BASED ON N.E.C. CODE 110-14. (TERMINATION PROVISIONS FOR EQUIPMENT RATED 100A OR LESS ARE RATED FOR USE WITH CONDUCTORS RATED 60°C. TERMINATION PROVISIONS FOR EQUIPMENT RATED GREATER THAN 100A ARE RATED FOR USE WITH CONDUCTORS RATED 75°C.)
2. CONTRACTOR MAY OPTIONALLY USE 1/2" CONDUIT IN LIEU OF 3/4" CONDUIT FOR #10 AND #12 CONDUCTORS.
3. CONDUIT FILL IS BASED ON 40% FILL USING SINGLE CONDUCTOR BUILDING WIRE OF INSULATION TYPES THHN, THWN, THWN-2, XHH, XHHW, AND XHHW-2 IN RMC. FOR OTHER RACEWAY TYPES REFER TO APPROPRIATE N.E.C. APPENDIX C TABLES.
4. EQUIPMENT GROUND SIZING BASED ON N.E.C. TABLE 250.122.

APPLICABLE CODES AND REGULATIONS

YEAR	CODE
2020	BUILDING CODE OF NEW YORK STATE
2020	RESIDENTIAL CODE OF NEW YORK STATE
2020	FIRE CODE OF NEW YORK STATE
2020	ENERGY CONSERVATION CODE OF NEW YORK STATE
2016	SAFETY CODE FOR ELEVATORS AND ESCALATORS 2016 OF NEW YORK STATE
2010	ADA STANDARDS
2017	NATIONAL ELECTRICAL CODE 2017 OF NEW YORK STATE
2020	PROPERTY MAINTENANCE CODE OF NEW YORK STATE

TECHNOLOGY SYMBOL LIST

SYMBOL	DESCRIPTION
	CAMERA
CR	CARD READER
	TECHNOLOGY OUTLET – 6" ABOVE COUNTER
	TECHNOLOGY OUTLET – FLOOR
	TECHNOLOGY OUTLET – WALL
DH	MAGNETIC DOOR HOLDER
	PUSH BUTTON
S	SPEAKER
	WALL CLOCK – SINGLE FACE
	WALL CLOCK – DOUBLE FACE
S	WALL CLOCK AND SPEAKER UNIT
WAP	WIRELESS ACCESS POINT

NOTES:
1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BOX AND CONDUIT FOR ALL DEVICES INDICATED.
2. LOW VOLTAGE CONTRACTOR SHALL PROVIDE EXACT SPECIFICATIONS AND LOCATIONS OF ALL DEVICES.

POWER SYMBOL LIST

SYMBOL	DESCRIPTION
●	CONDUIT DOWN
○	CONDUIT UP
	DISCONNECT SWITCH – NON FUSED
	DISCONNECT SWITCH – FUSED
	DISCONNECT SWITCH – COMB. MOTOR STARTER
	ELECTRICAL PANEL
	GROUNDING ROD
	GROUND
	GROUNDING BAR
J	JUNCTION BOX
M	METER
	MOTOR – SINGLE PHASE
	MOTOR – THREE PHASE
$M	MOTOR RATED SWITCH
	POWER RECEPTACLE – SIMPLEX TYPE
	POWER RECEPTACLE – DUPLEX TYPE
	POWER RECEPTACLE – DUPLEX 6" ABOVE COUNTER
USB	POWER RECEPTACLE – USB/DUPLEX COMBO. DEVICE
	POWER RECEPTACLE – QUADRUPLEX TYPE
	POWER RECEPTACLE – RECESSED FLOOR TYPE
	POWER RECEPTACLE – SPECIALTY TYPE
TC	TIME CLOCK
T	TRANSFORMER

NOTES:
1. ALL DEVICE RATINGS/SIZES SHALL BE COORDINATED WITH PLANS AND SCHEDULES.

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION
F	AUDIBLE DEVICE/WALL MOUNTED
F	VISUAL DEVICE/WALL MOUNTED
F	COMBO AUDIBLE/VISUAL DEVICE/WALL MOUNTED
F	AUDIBLE DEVICE/CEILING MOUNTED
F	VISUAL DEVICE/CEILING MOUNTED
F	COMBO AUDIBLE/VISUAL DEVICE/CEILING MOUNTED
CS	CO ALARM/SMOKE DETECTOR
S	SMOKE DETECTOR
CO	CO ALARM
S	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR
FD	FIRE DEPARTMENT COMMUNICATION OUTLET
EXISTING / NEW	COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)
EXISTING / NEW	COMBINATION FIRE/SMOKE DAMPER (VERTICAL)
F	MANUAL PULL STATION
FS	FLOW SWITCH
TS	TAMPER SWITCH
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
I/O	INPUT/OUTPUT CONTROL MODULE

NOTES:
1. DRAWINGS INDICATE DESIGN INTENT ONLY, FINAL LOCATIONS AND DEVICE SPECIFICATIONS SHALL BE PROVIDED BY FIRE ALARM MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR APPROVED MANUFACTURERS.

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
$4	FOUR WAY SWITCH
$L	LIGHT CONTROL LOCATION
G	GENERATOR TRANSFER DEVICE

ELECTRICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A	AMPERE
AF	AMPERE FUSE/AMPERE FRAME
AWG	AMERICAN WIRE GAUGE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
C	CONDUIT OR CEILING MOUNTED
CB	CIRCUIT BREAKER
CU	COPPER
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EPO	EMERGENCY POWER OFF
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
F	FUSE
G/GRD	GROUND
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MAX	MAXIMUM
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N/NEU	NEUTRAL
NF	NON-FUSIBLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
PH. OR ø	PHASE
P	POLE
PF	POWER FACTOR
PVC	POLYVINYL CHLORIDE (PLASTIC)
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(RR)	REMOVE AND REINSTALL
RMC	RIGID METALLIC CONDUIT
RP	RECEPTACLE PANEL
TBB	TELEPHONE BACKBOARD
TYP.	TYPICAL
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

DRAWING INDEX

SHT NO	DESCRIPTION
E000.M	ELECTRICAL GENERAL INFORMATION
E110.M	FIRST FLOOR ELECTRICAL PLAN
E120.M	SECOND FLOOR ELECTRICAL PLAN
E130.M	THIRD FLOOR ELECTRICAL PLAN
E140.M	FOURTH FLOOR ELECTRICAL PLAN
E150.M	FIFTH FLOOR ELECTRICAL PLAN
E400.M	ENLARGED ELECTRICAL PLANS
E401.M	ENLARGED ELECTRICAL PLANS

DRAWING NOTATION

SYMBOL	DESCRIPTION
L1	LIGHTING FIXTURE TAG
1	CONSTRUCTION KEY NOTE NUMBER 1
1	DEMOLITION KEY NOTE NUMBER 1
20	COPPER FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE)
20	ALUMINUM FEEDER SIZE TAG (REFER TO FEEDER SCHEDULE)
EQUIPMENT	EQUIPMENT TAG
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIPMENT
	NEW OR MODIFIED UNDERGROUND WIRING
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	POINT OF NEW CONNECTION

4 / E5.2 — SECTION NUMBER 4; SHEET E5.2 ON WHICH SECTION IS DRAWN

6 / E5.2 — SECTION NO. 6; SECTION, SCALE: 1/4" = 1' – 0"; SHEET E5.2 ON WHICH SECTION IS CUT (ENLARGED PARTIAL PLAN SIMILAR)

LIGHTING CONTROL TAG

1A / Z1 — LIGHTING CONTROL SPACE TYPE '1'; SCENE SCHEDULE ID 'A' (MAY NOT APPEAR ON EVERY TAG); DAYLIGHTING CONTROL ZONE '1' (MAY NOT APPEAR ON EVERY TAG)

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Holiday Inn Express & Suites

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10954

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04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SES
Checked by :

Sheet Title : ELECTRICAL GENERAL INFORMATION

Project No. : 2018.009

Sheet No. : E000.M

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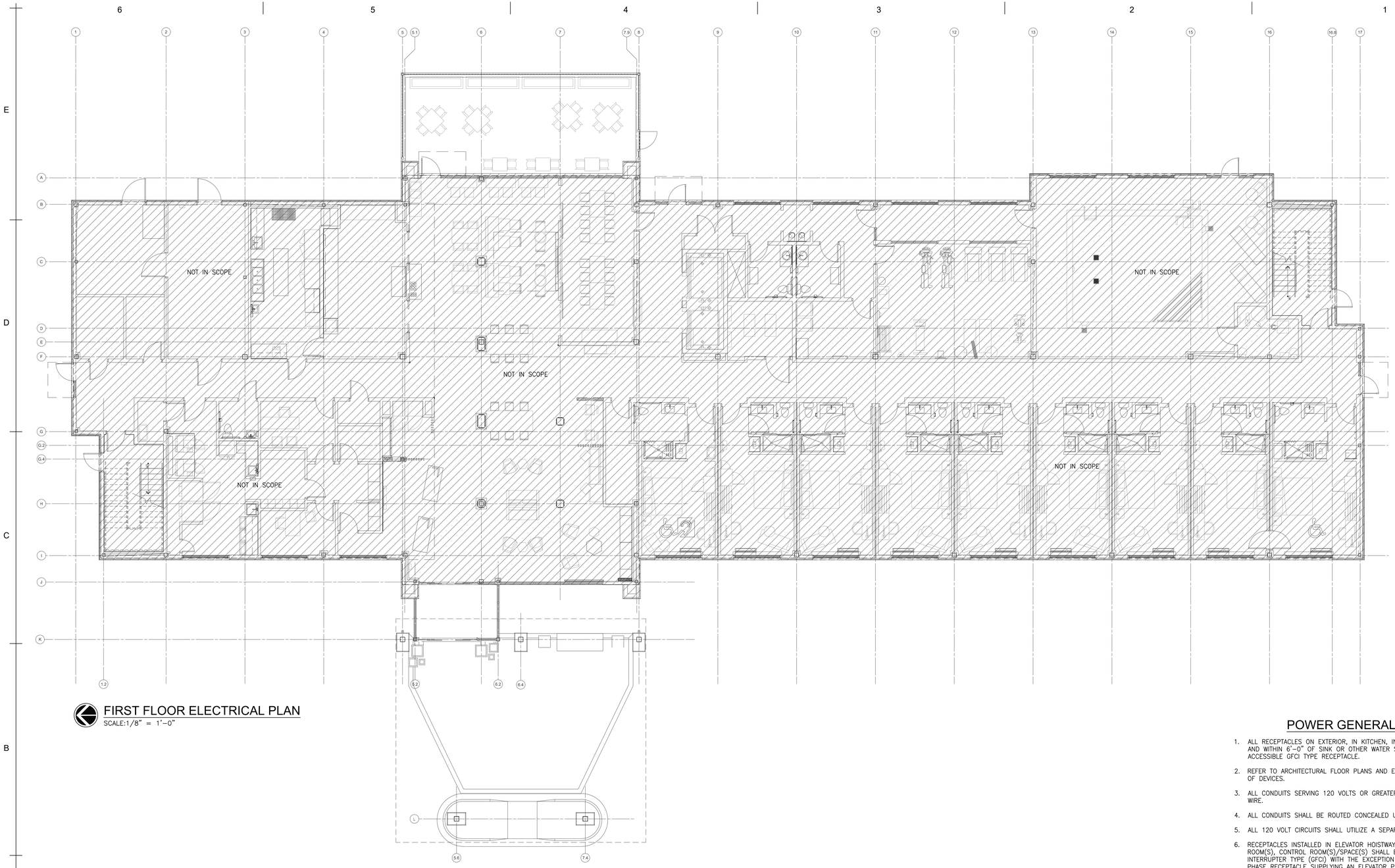

FIRST FLOOR ELECTRICAL PLAN

SCALE:1/8" = 1'-0"

POWER GENERAL NOTES

1. ALL RECEPTACLES ON EXTERIOR, IN KITCHEN, IN CONCESSION, IN LABORATORY, AND WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE READILY ACCESSIBLE GFCI TYPE RECEPTACLE.
2. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS TO VERIFY LOCATION OF DEVICES.
3. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
4. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
5. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
6. RECEPTACLES INSTALLED IN ELEVATOR HOISTWAY(S), ELEVATOR MACHINE ROOM(S), CONTROL ROOM(S)/SPACE(S) SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFCI) WITH THE EXCEPTION OF A DEDICATED SINGLE PHASE RECEPTACLE SUPPLYING AN ELEVATOR PIT SUMP PUMP SHALL NOT BE A GFCI TYPE RECEPTACLE.
7. ALL BRANCH CIRCUITS THAT SUPPLY 125-V SINGLE PHASE, 15 AND 20 AMP OUTLETS TO BE INSTALLED IN HOTEL ROOMS AND SUITES OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER; COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.

0 1/2" 1" 2"
ACCURATE WHEN PRINTED TO SCALE

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04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
FIRST FLOOR
ELECTRICAL PLAN

Project No. :
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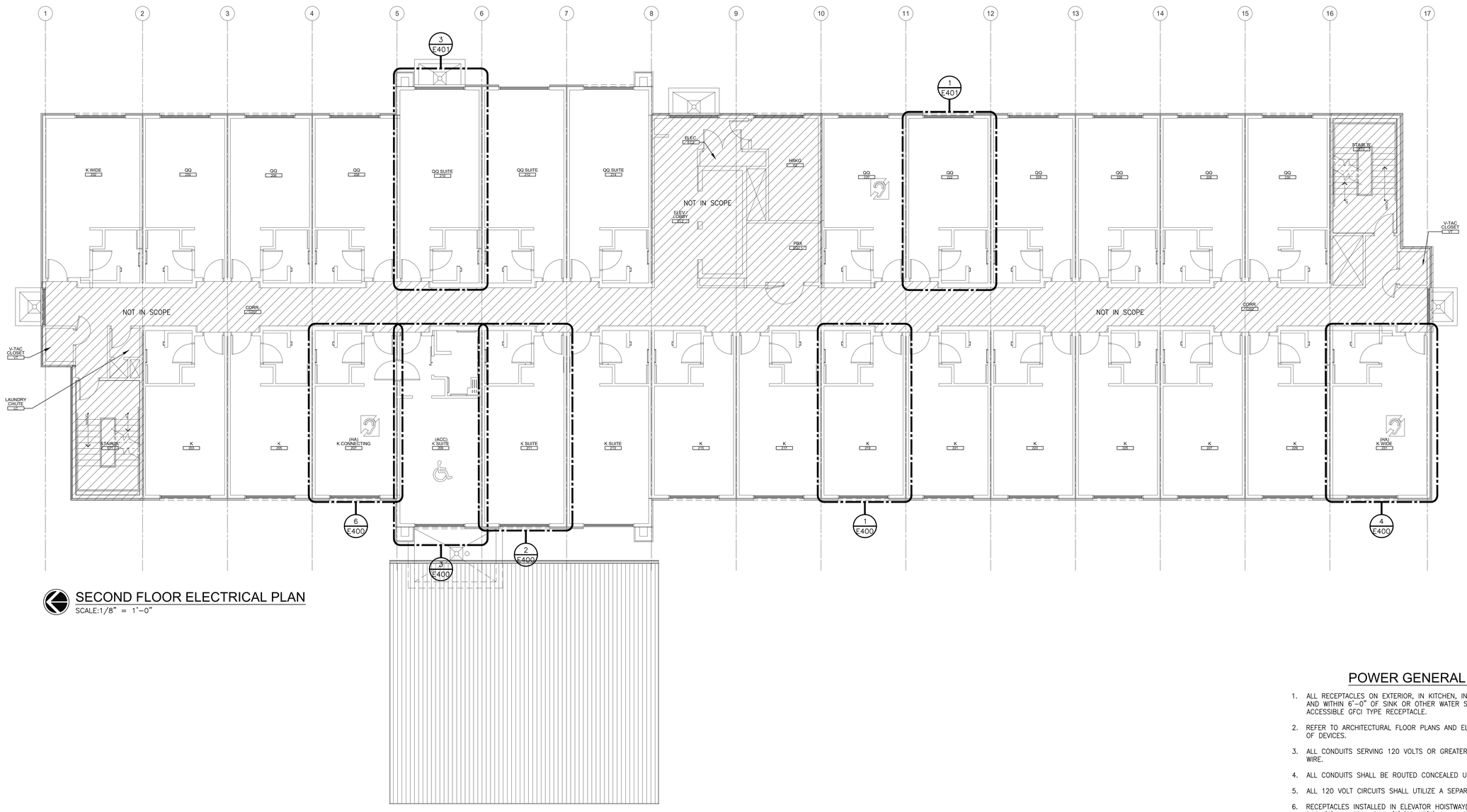

SECOND FLOOR ELECTRICAL PLAN

SCALE:1/8" = 1'-0"

POWER GENERAL NOTES

1. ALL RECEPTACLES ON EXTERIOR, IN KITCHEN, IN CONCESSION, IN LABORATORY, AND WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE READILY ACCESSIBLE GFCI TYPE RECEPTACLE.
2. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS TO VERIFY LOCATION OF DEVICES.
3. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
4. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
5. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
6. RECEPTACLES INSTALLED IN ELEVATOR HOISTWAY(S), ELEVATOR MACHINE ROOM(S), CONTROL ROOM(S)/SPACE(S) SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE (GFCI) WITH THE EXCEPTION OF A DEDICATED SINGLE PHASE RECEPTACLE SUPPLYING AN ELEVATOR PIT SUMP PUMP SHALL NOT BE A GFCI TYPE RECEPTACLE.
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0 1/2" 1" 2"
ACCURATE WHEN PRINTED TO SCALE

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04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
SECOND FLOOR
ELECTRICAL PLAN

Project No. :
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THIRD FLOOR ELECTRICAL PLAN

SCALE:1/8" = 1'-0"

POWER GENERAL NOTES

1. ALL RECEPTACLES ON EXTERIOR, IN KITCHEN, IN CONCESSION, IN LABORATORY, AND WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE READILY ACCESSIBLE GFCI TYPE RECEPTACLE.
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5. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
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7. ALL BRANCH CIRCUITS THAT SUPPLY 125-V SINGLE PHASE, 15 AND 20 AMP OUTLETS TO BE INSTALLED IN HOTEL ROOMS AND SUITES OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER; COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.

0 1/2" 1" 2"
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Project :

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THRUWAY PLAZA OF
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ROCKLAND COUNTY, NY
10954

Issued for :

BIDS/PERMITS	04.30.21

STATE OF NEW YORK · PATRICKEN TOWNSEND · 088076 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

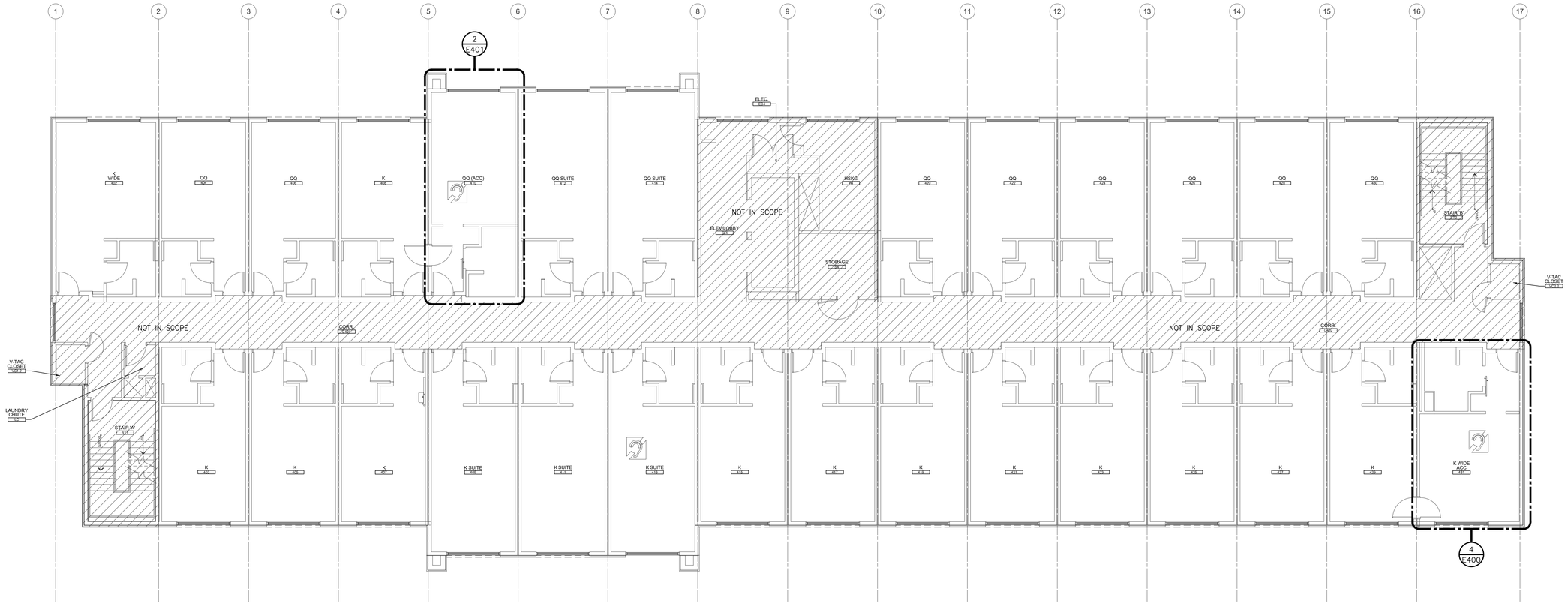
Drawn by :
SES

Checked by :

Sheet Title :
THIRD FLOOR
ELECTRICAL PLAN

Project No. :
2018.009

Sheet No. :
E130.M



FOURTH FLOOR ELECTRICAL PLAN

SCALE:1/8" = 1'-0"

POWER GENERAL NOTES

1. ALL RECEPTACLES ON EXTERIOR, IN KITCHEN, IN CONCESSION, IN LABORATORY, AND WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE READILY ACCESSIBLE GFCI TYPE RECEPTACLE.
2. REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATIONS TO VERIFY LOCATION OF DEVICES.
3. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
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0 1/2" 1" 2"
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ROCKLAND COUNTY, NY
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Issued for :

BIDS/PERMITS 04.30.21

04/30/2021

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
FOURTH FLOOR ELECTRICAL PLAN

Project No. :
2018.009

Sheet No. :
E140.M

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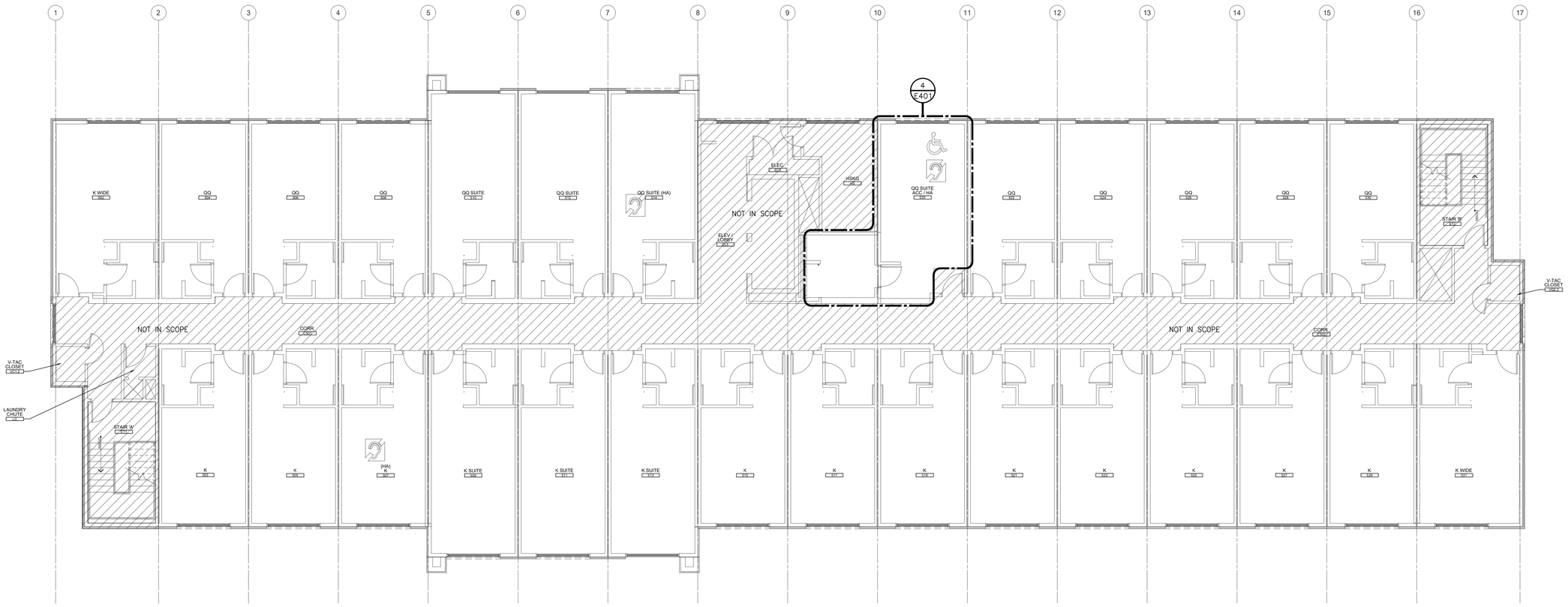

FIFTH FLOOR ELECTRICAL PLAN

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STATE OF NEW YORK
STRICKEN TOWNSHIP
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LICENSED PROFESSIONAL ENGINEER
04/30/2021

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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Sheet Title :
FIFTH FLOOR
ELECTRICAL PLAN

Project No. :
2018.009

Sheet No. :
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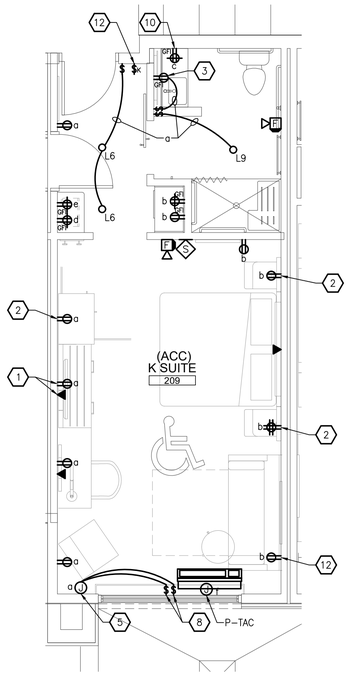
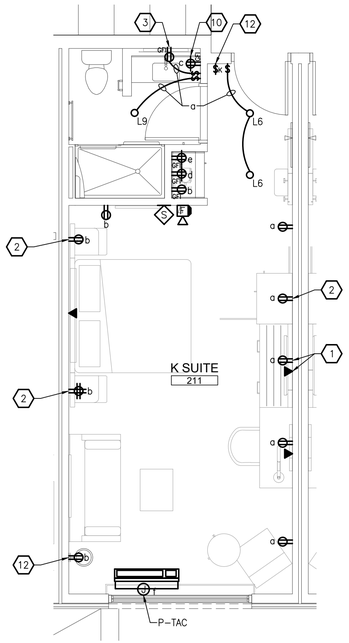
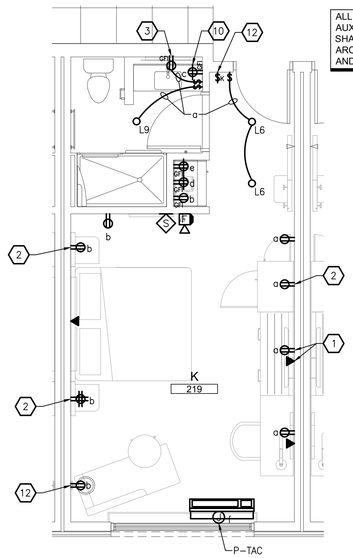


3 ENLARGED KING SUITE ACCESSIBLE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED KING SUITE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



1 ENLARGED KING ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

TYPICAL HOTEL ROOM CIRCUITING
a - RECEPTACLES/LIGHTING
b - RECEPTACLES/LIGHTING
c - BATHROOM
d - COFFEE MAKER
e - MICROWAVE
f - P-TAC

ALL POWER, DATA, AND AUXILIARY DEVICE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS AND IHG DESIGN GUIDELINES.

ELECTRICAL GENERAL NOTES

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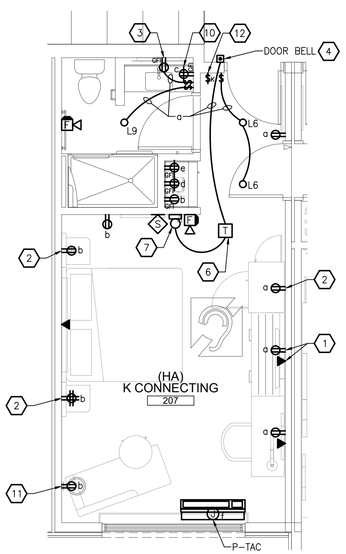
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
9. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
10. WHERE MORE THAN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
11. ALL POWER PACKS TO BE LOCATED DIRECTLY ABOVE SWITCH.
12. LIGHT FIXTURES ARE LOOPED TOGETHER TO INDICATE CONTROL ZONE GROUPS. CONNECTED FIXTURES ARE TO BE CONTROLLED TOGETHER. CIRCUITS MAY BE SHARED AMONG SEPARATE CONTROL ZONE GROUPS. MULTIPLE ZONES ZONES MAY BE COMBINED IN SOFTWARE TO FORM SCENES. SEE LIGHTING CONTROL MATRIX: SCENE SCHEDULE (IF PROVIDED), AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
13. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.

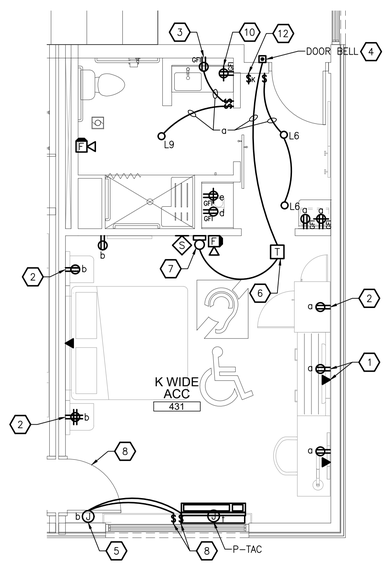
KEYED NOTES

1. VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT ELEVATIONS FOR T.V..
2. PROVIDE FFE MILLWORK-MOUNTED FIXTURE, PLUGGED INTO OUTLET BEHIND REMOVABLE PANEL.
3. PROVIDE SWITCHED GFI OUTLET TO BRAND APPROVED LIT-MIRROR. MIRROR IS OWNER PROVIDED, ELECTRICAL CONTRACTOR INSTALLED. REFER TO ARCHITECTURAL PLANS FOR MIRROR FINAL SELECTION AND LOCATION.
4. PROVIDE DOORBELL IN HEARING IMPAIRED ROOMS ONLY. REFER TO ARCHITECTURAL DRAWINGS. PROVIDE A SURFACE MOUNT LOW VOLTAGE ILLUMINATED DOOR BELL EQUAL TO EDWARDS #630L. COLOR SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 48" AFF.
5. PROVIDE HARDWIRED CONNECTION FOR ROLLER SHADE IN ACCSIBLE ROOMS ONLY. PROVIDE WIRING FOR TWO CONNECTIONS; ONE FOR THE SHEER ROLLER AND ONE FOR THE BLACKOUT-ROLLER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
6. PROVIDE A 120 TO 24V TRANSFORMER FOR DOORBELL & HORN/STROBE IN HEARING IMPAIRED ROOMS ONLY. TRANSFORMER EQUAL TO EDWARDS #592. MOUNT ABOVE CORRIDOR CEILING WHERE ACCESSIBLE.
7. PROVIDE A FLUSH MOUNTED HORN/STROBE FOR VISUAL AND AUDIBLE NOTIFICATION OF DOOR BELL IN HEARING IMPAIRED ROOMS ONLY. DEVICE TO BE EQUAL TO EDWARDS #867STR, 24 VOLT. STROBE COLOR (OTHER THAN RED), SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 90 INCHES AFF.
8. ROOMS WITH ACCESS DOORS TO ADJACENT ROOMS IN SLEEPING AREAS SHALL NOT INCLUDE WALL MOUNTED LIGHT FIXTURE OR THE ALIGNED RECEPTACLE.
9. PROVIDE TWO LEVITON 5657-2W SWITCHES FOR ROLLER SHADES. PROVIDE ONLY IN ACCESSIBLE ROOMS.
10. PROVIDE BRAND-APPROVED NIGHTLIGHT ON THIS WALL, INTEGRAL TO EITHER SWITCH OR GFI OUTLET. REFER TO DESIGN CONNECT FOR CURRENT LIST OF BRAND APPROVED DEVICES. PROVIDE OCCUPANCY SENSING SWITCH WHERE REQUIRED BY CODE.
11. VERTICALLY ALIGN RECEPTACLE WITH OWNER PROVIDED, ELECTRICAL CONTRACTOR INSTALLED LIGHT SCONCE. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SPECIFICATION AND LOCATION.
12. MASTER KEY SYSTEM TO BE SELECTED BY OWNER IN CONJUNCTION WITH HOLIDAY INN TECHNOLOGY CONSULTANT. ELECTRICAL CONTRACTOR TO COORDINATE FINAL SYSTEM REQUIREMENTS PRIOR TO INSTALL.

TECHNOLOGY OUTLETS SHOWN FOR COORDINATION PURPOSES IN GUESTROOMS ONLY. ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY SHEETS T000-T909 AND TA000-TA901 FOR FULL SCOPE OF BACKBOX AND PATHWAY WORK TO BE INCLUDED IN THEIR BID



6 ENLARGED KING ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



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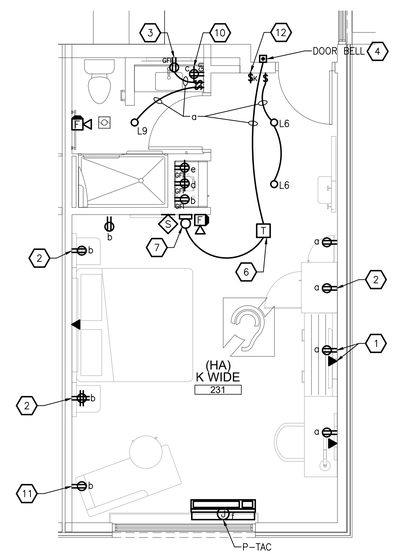
SCALE: 1/4" = 1'-0"



4 ENLARGED KING WIDE ACCESSIBLE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

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STATE OF NEW YORK · PATRICK TOWNSEND · 098078 · LICENSED PROFESSIONAL ENGINEER

04/30/2021

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SES

Checked by :

Sheet Title :
ENLARGED
ELECTRICAL PLANS

Project No. :
2018.009

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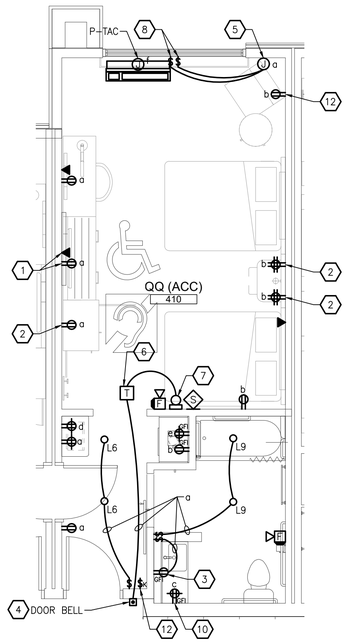
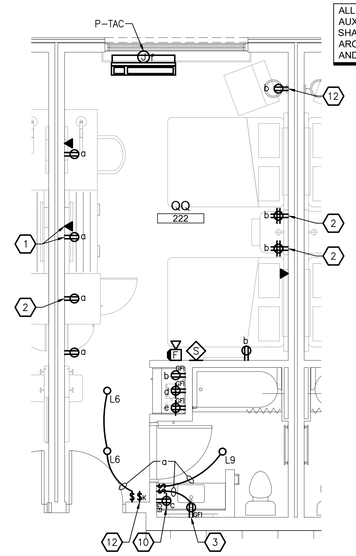


2 ENLARGED QQ SUITE ACCESSIBLE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



1 ENLARGED QQ ELECTRICAL PLAN
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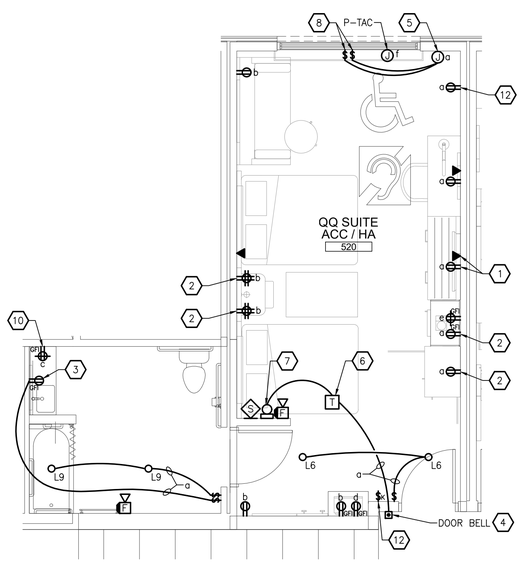

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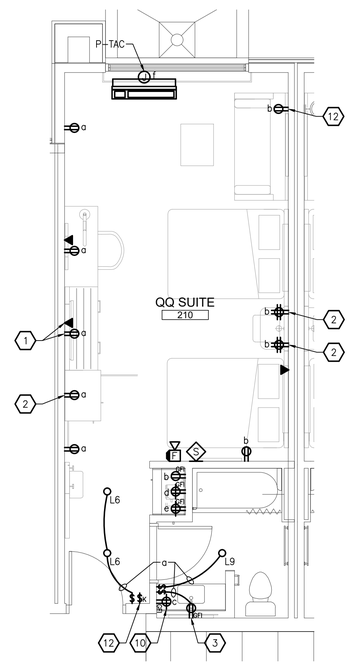
SCALE: 1/4" = 1'-0"



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2. PROVIDE FFE MILLWORK-MOUNTED FIXTURE, PLUGGED INTO OUTLET BEHIND REMOVABLE PANEL.
3. PROVIDE SWITCHED GFI OUTLET TO BRAND APPROVED LIT-MIRROR. MIRROR IS OWNER PROVIDED, ELECTRICAL CONTRACTOR INSTALLED. REFER TO ARCHITECTURAL PLANS FOR MIRROR FINAL SELECTION AND LOCATION.
4. PROVIDE DOORBELL IN HEARING IMPAIRED ROOMS ONLY. REFER TO ARCHITECTURAL DRAWINGS. PROVIDE A SURFACE MOUNT LOW VOLTAGE ILLUMINATED DOOR BELL EQUAL TO EDWARDS #630L. COLOR SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 48" AFF.
5. PROVIDE HARDWIRED CONNECTION FOR ROLLER SHADE IN ACCSIBLE ROOMS ONLY. PROVIDE WIRING FOR TWO CONNECTIONS; ONE FOR THE SHEER ROLLER AND ONE FOR THE BLACKOUT-ROLLER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
6. PROVIDE A 120 TO 24V TRANSFORMER FOR DOORBELL & HORN/STROBE IN HEARING IMPAIRED ROOMS ONLY. TRANSFORMER EQUAL TO EDWARDS #592. MOUNT ABOVE CORRIDOR CEILING WHERE ACCESSIBLE.
7. PROVIDE A FLUSH MOUNTED HORN/STROBE FOR VISUAL AND AUDIBLE NOTIFICATION OF DOOR BELL IN HEARING IMPAIRED ROOMS ONLY. DEVICE TO BE EQUAL TO EDWARDS #8675TR, 24 VOLT. STROBE COLOR (OTHER THAN RED), SHALL BE SPECIFIED BY ARCHITECT. MOUNT AT 90 INCHES AFF.
8. ROOMS WITH ACCESS DOORS TO ADJACENT ROOMS IN SLEEPING AREAS SHALL NOT INCLUDE WALL MOUNTED LIGHT FIXTURE OR THE ALIGNED RECEPTACLE.
9. PROVIDE TWO LEVITON 5657-2W SWITCHES FOR ROLLER SHADES. PROVIDE ONLY IN ACCESSIBLE ROOMS.
10. PROVIDE BRAND-APPROVED NIGHTLIGHT ON THIS WALL, INTEGRAL TO EITHER SWITCH OR GFI OUTLET. REFER TO DESIGN CONNECT FOR CURRENT LIST OF BRAND APPROVED DEVICES. PROVIDE OCCUPANCY SENSING SWITCH WHERE REQUIRED BY CODE.
11. VERTICALLY ALIGN RECEPTACLE WITH OWNER PROVIDED, ELECTRICAL CONTRACTOR INSTALLED LIGHT SCONCE. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL SPECIFICATION AND LOCATION.
12. MASTER KEY SYSTEM TO BE SELECTED BY OWNER IN CONJUNCTION WITH HOLIDAY INN TECHNOLOGY CONSULTANT. ELECTRICAL CONTRACTOR TO COORDINATE FINAL SYSTEM REQUIREMENTS PRIOR TO INSTALL.

TECHNOLOGY OUTLETS SHOWN FOR COORDINATION PURPOSES IN GUESTROOMS ONLY. ELECTRICAL CONTRACTOR SHALL REFER TO TECHNOLOGY SHEETS T000-T909 AND TA000-TA901 FOR FULL SCOPE OF BACKBOX AND PATHWAY WORK TO BE INCLUDED IN THEIR BID

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04/30/2021

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

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** AUDIO / VISUAL SYSTEMS **

A SCOPE

PROJECT:

THIS HOTEL WILL CONSIST OF BACKGROUND MUSIC SYSTEMS PLACED THROUGHOUT THE PUBLIC SPACES. THIS WILL INCLUDE THE LOBBY, RESTAURANTS/BAR, FITNESS, PRE-FUNCTION, AND OTHER PUBLIC CORRIDORS AND SPACES. THE MEETING SPACES WILL HAVE BUILT-IN AUDIO FOR MICROPHONES, MP3 PLAYERS OR SIMILAR DEVICES. THESE ROOMS WILL ALSO HAVE SUPPORT FOR PORTABLE ASSISTED LISTENING SYSTEM THAT SHOULD BE PROVIDED BY THE HOTEL OR ASSOCIATED THIRD PARTY PROVIDER. THE SMALL MEETING ROOMS WILL HAVE BUILT-IN DISPLAYS WITH HDMI CONNECTIVITY UP TO A FIXED DISPLAY LOCATION. THE LARGE MEETING ROOM WILL BE SUPPORTED BY BUILT-IN PROJECTORS AND SCREENS. ALTERNATE OF MOBILE PROJECTOR AND SCREENS TO BE IN LIEU OF SMALL MEETING ROOM DISPLAY.

B GENERAL NOTES

1) ALL DEVICES RELATED TO THE AV TECHNOLOGY SHALL BE MOUNTED AND INSTALLED AS PER THE MANUFACTURES RECOMMENDATIONS. THEY SHALL BE PLUM TO THE WALLS, FLOORS, OR RELATED MOUNTING EQUIPMENT WHEN EVER APPLICABLE.

2) WHILE THESE DRAWINGS CALL OUT FOR THE MAIN COMPONENTS REQUIRED FOR THE FULL OPERATION AND PERFORMANCE OF THIS SYSTEM DESIGN, ALL DEVICES SUPPLEMENTAL AND RELATED TO THE PERFORMANCE, OPERATIONS, AND INSTALLATION OF THESE DEVICES ARE NOT EXCLUDED AND SHOULD BE CONSIDERED TO BE A PART OF THE SCOPE OF WORK.

3) ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND TO THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). WHERE REQUIRED BY LOCAL CODE FOR MAINTAINING FIRE RATING, USE FIRESTOP TO ALL STUB THROUGH LOCATIONS.

4) WHERE APPLICABLE ALL EQUIPMENT AND MATERIALS SHALL BE AS APPROVED BY - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), UNDERWRITERS LABORATORIES, INC. (UL) OR SIMILARLY RELATED ASSOCIATION.

5) ALL WORK SHALL COMPLY WITH, MEET, OR EXCEED STANDARDS SET ASIDE BY - NATIONAL ELECTRICAL CODE (NEC)/ AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/ INFOCOMM INTERNATIONAL/ INSTITUTE OF ELECTRONIC & ELECTRICAL ENGINEERS (IEEE)/ AMERICANS WITH DISABILITIES ACT (ADA)/ AND ANY APPLICABLE ASSOCIATIONS.

6) CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING ALL WALL AND FLOOR PENETRATIONS PER LOCAL CODES.

7) MATERIALS REQUIRED TO MEET THE STANDARDS OF THE ABOVE STATED ASSOCIATIONS SHOULD BE INCLUDED AS PART OF THIS SCOPE OF WORK.

8) EXCEPT WERE SPECIFICALLY SHOWN OR DESCRIBED ALL EQUIPMENT REPRESENTATION IS FOR GENERAL INFORMATION OF CONNECTIVITY, PLACEMENT, AND RELATIONSHIP WITHIN THE DESIGNED SYSTEM.

9) THE DIMENSIONS SHOWN ARE SUGGESTED PLACEMENTS ONLY FOR COORDINATION AND INFORMATION. FINAL LOCATIONS WILL NEED TO BE PLACED BASED ON ACTUAL FIELD CONDITIONS AND VERIFIED WITH ARCHITECT/I.D. PRIOR TO INSTALLATION. FIELD CONDITIONS TAKE PRECEDENCE OVER ANY DRAWING DIMENSIONS.

10) ALL CEILING SPEAKER LOCATIONS ARE REFERENCE LOCATIONS ONLY. THEY ARE INTENDED FOR THE INSTALLATION BY THE AV INTEGRATOR.

11) FINAL MOUNTING LOCATIONS FOR CEILING MOUNTED EQUIPMENT SHALL BE COORDINATED WITH THE RCP DRAWING, INTERIOR DESIGNER, AND FIELD CONDITIONS.

C PROJECT REQUIREMENTS

1) THE EQUIPMENT LISTED HAS BEEN APPROVED FOR USE IN THIS PROJECT. ANY SUBSTITUTIONS FOR THE EQUIPMENT LISTED SHALL BE SUBMITTED IN WRITING AND APPROVAL GIVEN BEFORE ITEM WILL BE USED AS PART OF THE DESIGN. ALL REQUEST FOR INFORMATION (RFI) WILL BE SUBMITTED IN WRITING THROUGH THE PRIMARY CONTRACTOR AND WILL BE ANSWERED THROUGH THE SAME PARTY.

2) EQUIPMENT SHOULD BE ORDERED RELATIVE TO THE INSTALLATION DATES TO ENSURE THAT THE CUSTOMER RECEIVES THEIR MAXIMUM WARRANTY COVERAGE AND TO PREVENT ADDITIONAL CHARGES FOR STORAGE.

3) IF A SIGNIFICANT AMOUNT OF TIME HAS PAST BETWEEN PROPOSAL ACCEPTANCE AND EQUIPMENT ORDERING, THE CONTRACTOR SHALL REVIEW ALL EQUIPMENT FOR PRICE DECREASES, DISCONTINUED EQUIPMENT, OR OTHER ITEMS THAT MIGHT AFFECT THE FINAL EQUIPMENT PURCHASED. A LIST OF ALL CHANGES SHALL BE SUBMITTED TO THE OWNER AND CONSULTANT FOR REVIEW PRIOR TO ORDERING EQUIPMENT.

4) ALL EQUIPMENT SHALL BE PROVIDED BY AN AUTHORIZED DEALER OF THE EQUIPMENT WITH FULL WARRANTY AND SERVICE GUARANTEES APPLICABLE.

5) EQUIPMENT INSTALLER SHALL HAVE ALL CERTIFICATIONS PERTAINING TO PROGRAMMING, INSTALLATION, AND OPERATION OF THE EQUIPMENT PER THE EQUIPMENT MANUFACTURES RECOMMENDATION.

6) EQUIPMENT PROVIDER SHALL BE ABLE TO PROVIDE RESPONSE TIME WITHIN ONE BUSINESS DAY FOR ANY ISSUES RELATING TO THE INSTALLATION, SERVICE, PERFORMANCE, OR MALFUNCTION WITH THE INSTALLED SYSTEM.

7) ALL COST ASSOCIATED WITH THE PREPARATION OF THIS PROPOSAL WILL BE THE RESPONSIBILITY OF THE PROPOSING INTEGRATOR

8) INSTALLATION PROCEDURES SHALL FOLLOW BEST PRACTICE STANDARDS SET ASIDE BY INFOCOMM INTERNATIONAL, NSCA, BICSI, NEC, ISO/IEC OR OTHER RELATED ORGANIZATIONS THAT PERTAIN TO THE INSTALLED SYSTEMS. ANY RELATED STANDARDS INCLUDING LOCAL CODES AND REGULATIONS ARE THE RESPONSIBILITY OF THE AV INTEGRATOR, TO DISCOVER AND FOLLOW AS RELATED TO THIS PROJECT.

9) ALL TERMS OF THE CONTRACT SHALL BE DETERMINED BY THE G.C. AND THE PROJECT TEAM. NO OTHER AGREEMENTS SHALL BE FOLLOWED AS PART OF THIS PACKAGE.

10) ALL EQUIPMENT TYPES, EQUIPMENT COUNTS, CONNECTIVITY AND SPECIFICATIONS ARE CONTAINED WITHIN THIS PACKAGE. IT IS THE RESPONSIBILITY OF THE EQUIPMENT PROVIDER AND INTEGRATOR TO VERIFY ALL COUNTS, CONNECTIVITY, AND FUNCTIONALITY. ANY QUESTIONS RELATED TO THIS DESIGN PACKAGE SHALL BE DIRECTED THROUGH THE PRIMARY CONTRACTOR.

11) AV CONTRACTOR SHALL ABIDE BY ALL RULES AND REGULATIONS SET ASIDE BY THE OWNERSHIP FOR SAFETY, INSURANCE, BONDING, SITE REGULATIONS AND OTHER RELATED POLICIES REGARDING THIS PROJECT.

12) THE INTEGRATION TEAM SHALL MAINTAIN A CLEAN WORK AREA AT ALL TIMES. THIS INCLUDES BUT IT NOT LIMITED TO, SWEEPING UP, THE REMOVAL OF ALL TRASH ITEMS, NEAT STORAGE OF EQUIPMENT, TOOLS, BOXES, WIRES, AND ANY RELATED MATERIALS.

13) A CLEAN PROFESSIONAL APPEARANCE AND WORK ATMOSPHERE IS ALSO EXPECTED. CLOTHING SHALL INDICATE THE COMPANY THE INSTALLER IS WITH. CONVERSATIONS SHALL BE DONE WITH RESPECT TO THE WORK ENVIRONMENT AND THOSE AROUND THE FACILITY.

14) ARRANGEMENTS FOR ON-SITE STORAGE OF EQUIPMENT, TOOLS, OR OTHER RELATED MATERIALS SHOULD BE COORDINATED WITH THE GC OR APPROPRIATE ON-SITE GROUP RESPONSIBLE FOR THE SITE.

D SPECIAL PROJECT NOTES:

1) FOR THIS PROJECT, COORDINATE WITH FIRE SYSTEMS PROVIDER, TO RECEIVE AN OPEN/CLOSED FEED FROM THEIR SYSTEM. THIS FEED WILL TRIGGER AN "ALL MUTE" TO THE AUDIO SYSTEMS IN CASE OF AN EMERGENCY. A 2 CONDUCTOR CONTROL WIRE WILL NEED TO BE RUN FROM THE FIRE SYSTEMS CONTROLLER TO THE CENTRAL AV RACK LOCATION. COORDINATE FINAL CABLE TYPE WITH FIRE SYSTEMS PROVIDER. THIS CABLE SHALL BE RUN BY THE AV CABLE PULLING FIRM, CONNECTED TO THE FIRE SYSTEM BY THE FIRE SYSTEMS INSTALLER, AND CONNECTED TO AUDIO SYSTEM BY THE AV SYSTEMS INTEGRATOR. THE TWO SHALL COORDINATE A TEST TO ENSURE THE SYSTEM IS WORKING.

2) EQUIPMENT AND CABLING INDICATED ON THE TA-1.XX, TA-2.XX, AND TA-8.XX SERIES DRAWINGS ARE INTENDED TO BE INSTALLED DURING CONSTRUCTION. (UNLESS OTHERWISE INDICATED) ALL CABLE PULLING, LABELING, AND TESTING REQUIREMENTS APPLY. FULL DOCUMENTATION OF ALL CABLES AND EQUIPMENT INSTALLED DURING CONSTRUCTION SHALL BE MADE AND DELIVERED AS PART OF AN AS-BUILT DOCUMENTATION.

E DIVISION OF LABOR

GENERAL CONTRACTOR, MECHANICAL AND ELECTRICAL CONTRACTORS ARE INTENDED TO PICK UP THE HEAT LOAD INFORMATION, POWER REQUIREMENTS, JUNCTION BOXES, CONDUIT, CABLE RACEWAYS PATHWAYS AND CABLING. (UNLESS OTHERWISE NOTED)

THE EQUIPMENT PROVIDER IS TO INCLUDE ANY EQUIPMENT NOT OTHERWISE SHOWN AS PROVIDED BY OTHERS, ANY CABLING SPECIFIED TO BE BY THE EQUIPMENT PROVIDER, AND ANY SPECIALTY ITEM REQUIRED BY THE EQUIPMENT PROVIDER.

SOME ELECTRIC SCREENS, LIFTS, SPEAKERS, CONTROL UNITS, RACK EQUIPMENT OR OTHER DEVICES, MAY REQUIRE COORDINATED INSTALLATION BETWEEN THE EQUIPMENT PROVIDER AND THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, LIGHTING PROVIDER, FIRE SAFETY SYSTEMS, OR MECHANICAL SYSTEMS PROVIDER. IT IS THE RESPONSIBILITY OF THE EQUIPMENT PROVIDER TO COORDINATE THESE EFFORTS WITH THE GC OR AS DIRECTED BY THE PROJECT MANAGEMENT TEAM.

ANY INFRASTRUCTURE, POWER, CABLING, OR RELATED DEVICES REQUIRED BY THE EQUIPMENT PROVIDER THAT IS NOT SHOWN ON THE DRAWINGS, OR NOT INSTALLED IN THE FIELD NEEDS TO BE BROUGHT TO THE ATTENTION OF THE GC, DESIGN TEAM, OR PROJECT MANAGER IMMEDIATELY.

F CONTRACTOR QUALIFICATIONS

1) CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS OF EXPERIENCE WITH SIMILAR SCOPE, SCALE, AND COMPLEXITY OF THE TECHNOLOGY PRESENTED HEREIN.

2) CONTRACTOR SHALL BE A CURRENT MEMBER IN GOOD STANDING OF INFOCOMM INTERNATIONAL, NATIONAL ASSOCIATION OF BROADCASTERS, NATIONAL SYSTEMS CONTRACTORS ASSOCIATION, OR RELATED AUDIO VISUAL ASSOCIATION.

3) CONTRACTOR SHALL BE A FULLY AUTHORIZED DIRECT DEALER OF ANY AND ALL MAJOR COMPONENTS LISTED HEREIN.

4) CONTRACTOR SHALL HOLD CURRENT AND COMPLETE CERTIFICATIONS FOR PROGRAMMING, INSTALLATION, SET-UP & CONFIGURATION OF ALL MAJOR COMPONENTS WHERE APPLICABLE FOR THE EQUIPMENT LISTED HEREIN. THESE CERTIFICATIONS SHALL INCLUDE THE CONTROL SYSTEMS, SIGNAL PROCESSORS, OR ANY RELATED CERTIFICATIONS REQUIRED BY THE MANUFACTURE.

5) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL FIELD CONDITIONS AND REPORT ANY DISCREPANCIES FOUND PRIOR TO STARTING ANY WORK.

6) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL RELATED DOCUMENTS AND DRAWINGS OF OTHER DISCIPLINES THAT MIGHT PERTAIN TO FINAL SYSTEM REQUIREMENTS. THESE INCLUDE POWER, FACILITY COVER PLATE COLORS, FINAL INSTALLED CEILING LOCATIONS AND OTHER REQUIREMENTS.

7) INCLUDED WITH A PROPOSAL RESPONSE TO A RFP SHALL BE DOCUMENTATION FOR VERIFICATION OF THE ABOVE LISTED REQUIREMENTS, A LIST OF ALL PERTINENT PERSONNEL THAT WILL BE ASSIGNED TO THE PROJECT ALONG WITH THEIR QUALIFICATIONS, A GENERAL EQUIPMENT LIST, AND ANY EXTENDED SERVICE WARRANTIES OR CONTRACTS AVAILABLE FROM THE BIDDING FIRM.

8) PERTINENT PERSONNEL ASSIGNED TO THIS PROJECT THAT HOLD CERTIFICATES SUCH AS CTS-I, CTS-D, CTS, CERTIFIED PROGRAMMER, NSCA CERTIFIED ELECTRONICS SYSTEMS TECHNICIAN, NICET LVL I OR II WILL BE MORE HEAVILY FAVORED IN FINAL REVIEW OF QUALIFICATIONS FOR THIS PROJECT.

9) ANY SUBCONTRACTOR SHALL BE LISTED AS TO PRIMARY CONTACT, LEAD ON-SITE PERSONNEL, AND AREA OF RESPONSIBILITY AS IT RELATES TO THE JOB. ALL SUBCONTRACTORS AND THEIR WORK ARE REQUIRED TO MEET THE SAME QUALIFICATIONS AS THE PRIMARY CONTRACTOR FOR THEIR AREA OF RESPONSIBILITY.

10) IF A SUBCONTRACTOR WILL BE WORKING ON THE PROJECT, A MEMBER OF THE PRIMARY PROPOSING COMPANY WILL BE REQUIRED TO BE ON-SITE AT ALL TIMES THAT WORK IS BEING PERFORMED ON THE PROJECT SITE.

11) CONTRACTORS SELECTED FOR THIS JOB BUT WHO DO NOT MEET THE CRITERIA ESTABLISHED FOR THIS PROJECT WILL BE HELD FULLY RESPONSIBLE FOR ANY SHORTCOMINGS IN THEIR INSTALLATION, PROGRAMMING OR PERFORMANCE OF THE SYSTEM.

G INSTALLATION NOTES

1) IT IS RECOMMENDED THAT THE FINAL HEAD-END EQUIPMENT NOT BE INSTALLED UNTIL A MAJORITY OF THE MAJOR CONSTRUCTION IS COMPLETE. THIS WILL LIMIT POTENTIAL DAMAGE FROM CONSTRUCTION WORK, DUST, AND RELATED RISKS.

2) UPON INSTALLATION OF THE CEILING SPEAKERS, THE PAINT GUARD SHALL BE PUT IN PLACE AND SHALL REMAIN THERE UNTIL SUCH TIME AS THE FACILITY HAS BEEN PAINTED AND IT IS TIME FOR FINAL SETUP AND CONFIGURATION.

3) A PANEL CRAFTERS PLATE (QUOTE #NETTE-25472-RHIM-02 SHALL BE ORDERED AND PLACED IN EACH RACK. THIS PLATE HAS ADDITIONAL ROOM FOR THE INTEGRATORS CONTACT INFORMATION IF IT IS SO DESIRED TO INCLUDE IT ON THIS PLATE. IF THE CONTRACTOR DOES NOT WISH TO ADD THEIR INFORMATION TO THIS PLATE A SEPARATE CONTACT INFORMATION PLATE SHOULD BE INCLUDED IN EACH RACK.

4) THE COPY OF THE SOFTWARE THAT IS TO BE INCLUDED IN THE CLOSEOUT PACKAGE SHOULD BE ON CD-R/CD-RW/DVD-R OR SIMILAR STORAGE SYSTEM. THE VERSIONS OF SOFTWARE SHOULD ALSO BE LISTED SEPARATELY FOR FUTURE REFERENCE INCASE OF DAMAGE TO THE STORAGE DEVICE. IF THE INTEGRATOR HAS RESTRICTIONS ABOUT PROVIDING AN EDITABLE COPY OF THEIR PROGRAMMING, IT SHOULD BE MADE KNOWN UP FRONT WITH A LISTING OF THEIR RESTRICTIONS OR USE CRITERIA.

H SPECIAL PROGRAMMING & FOLLOW UP REQUIREMENT

1) APPROXIMATELY 30 DAYS BEFORE THE INSTALLATION OF THE CONTROL SYSTEM PROGRAMMING, SAMPLE GUI SHEETS OF THE TOUCH PANEL INTERFACES SHOULD BE SENT TO THE OWNERSHIP AND THE CONSULTANT FOR APPROVAL OF THE GENERAL LAYOUTS.

2) AFTER COMPLETION OF THE SYSTEMS INSTALLATION, CONFIGURATION, TESTING, AND TRAINING, A FOLLOW UP PROGRAMMING AND TRAINING EFFORT SHALL OCCUR AT APPROXIMATELY 30 DAYS BEFORE OPENING.

3) THIS EFFORT WILL BE TO ALLOW THE STAFF TIME TO USE THE SYSTEM IN REAL TIME AND EVALUATE ANY ADDITIONAL QUESTIONS THEY MAY HAVE.

4) THIS EFFORT WILL ALSO INCLUDE CHANGES TO THE PROGRAMMING OF THE INTERFACE UNITS AND POSSIBLE CONTROL UNITS AS REQUESTED TO MAKE THE SYSTEM MORE USER FRIENDLY TO THE OPERATOR.

I PROJECT CONTRACTOR NOTES

1) TWO SETS OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNERSHIP AND THE CONSULTANT PRIOR TO WORK STARTING, TO CONVEY THE UNDERSTANDING OF THE DESIGN AND THE EXPECTATION OF THE CONTRACTOR AS IT RELATES TO THEIR SCOPE. INCLUDED WITH THE SHOP DRAWINGS SHALL BE;

   A) A COMPLETE SET OF DRAWINGS SHOWING THE SPECIFIC CONFIGURATION AND CONNECTIVITY OF THE SYSTEMS REPRESENTED IN THIS SCOPE OF WORK.

   B) DRAWINGS SHALL BE SUBMITTED EITHER ELECTRONICALLY USING DWG/PDF/ OR SIMILAR INDUSTRY STANDARD, OR HARD COPY ON DRAWING SHEETS MATCHING THE PROJECT STANDARD SIZE.

   C) WIRING, RACK PLACEMENT, CONNECTIVITY, WALL & FLOOR PENETRATIONS, BLOCK DIAGRAMS, AND SIMILARLY RELATED INFORMATION SHALL BE CONVEYED WITH IN THE SHOP DRAWINGS SUBMITTED.

   D) ANY CONTROL SYSTEM INTERFACE UNITS SHALL HAVE A GUI OR ENGRAVING INTERFACE DEVELOPED BY THE INSTALLING CONTRACTOR AND WILL BE SUBMITTED FOR REVIEW & COMMENT BY THE DESIGN TEAM AND OWNERSHIP BEFORE FINAL SYSTEM WILL BE ACCEPTED.

   E) ANY EQUIPMENT SUCH AS SPEAKERS, PROJECTORS, LIFTS, OR SIMILAR PRODUCTS THAT REQUIRE SPECIAL INFORMATION FOR INSTALLATION SHALL BE DETAILED FOR INSTALLATION REFERENCE.

2) TESTING SHALL BE DONE BASED ON BEST PRACTICES RECOMMENDATIONS WITH PERTINENT TESTING. A COMPLETE LIST OF THE TEST EXPECTED TO BE DONE SHALL BE INCLUDED WITH THE PROPOSAL. A FINAL REPORT OF THE TEST RESULTS SHALL BE INCLUDED AS A PART OF THE FINAL CLOSE-OUT PACKAGE.

3) TWO SETS OF A FINAL CLOSEOUT PACKAGE SHALL BE PROVIDED TO THE OWNER AND THE CONSULTANT, UPON COMPLETION OF THE PROJECT. THIS PACKAGE SHALL INCLUDE THE SET OF AS-BUILT DRAWINGS, A CONNECTIVITY SHEET (LAMINATED) AND PLACED WITH THE EQUIPMENT RACK, ALL PROGRAMS USED TO PROGRAM THE SYSTEM WITH THE VERSIONS USED FOR PROGRAMMING AS WELL AS A USABLE COPY OF THE FINAL PROGRAMMING DONE FOR EACH PIECE OF PROGRAMMABLE EQUIPMENT. A LIST OF FINAL SETTINGS SHALL ALSO BE PROVIDED FOR REFERENCE. A COPY OF ALL RELATED MANUALS AND WARRANTIES SHALL ALSO BE PROVIDED. THIS INFORMATION SHALL BE PLACED IN A THREE(3) RING BINDER.

4) ALSO INCLUDED WITH THE FINAL CLOSEOUT PACKAGE SHOULD BE A BASIC OPERATIONAL LAMINATE THAT PROVIDES A QUICK REFERENCE TO BASIC SYSTEMS OPERATIONS. THIS SHOULD BE PLACED WITH THE CONNECTIVITY SHEET LAMINATE AT THE EQUIPMENT RACK LOCATION.

5) AS-BUILT DRAWINGS ARE REQUIRED FOR THIS INSTALLATION. ALL AS-BUILT DRAWINGS SHALL INDICATE EQUIPMENT, CONNECTIVITY, LABELING, AND RELATED INFORMATION.

6) UPON COMPLETION OF THE PROJECT AND A FINAL INSPECTION BY THE CONSULTANT, A FINAL TRAINING SHALL BE ARRANGED BY THE PRIMARY CONTRACTOR TO OFFER COMPLETE TRAINING ON ALL REQUIRED SYSTEMS.

7) ALL CURRENT NETWORK & AUDIO VIDEO PROTOCOLS, STANDARDS, AND GUIDELINES SHALL BE FOLLOWED WHEN MAKING CONNECTIONS, PROGRAMMING, AND LABELING THE SYSTEMS.

8) CAD FILES OF THE CONSULTANTS DRAWINGS SHALL NOT BE PROVIDED AND SHALL NOT BE USED WITH THE POSSIBLE EXCEPTION OF A COMBINED RCP & FLOOR PLAN DRAWING THAT COULD BE MADE AVAILABLE WITH A SIGNED RELEASE FORM. IT IS INTENDED THAT ALL DRAWINGS INDICATED IN THIS PACKAGE ARE TO BE PROVIDED BY THE AV INTEGRATOR AND DONE WITH THEIR OWN DRAWINGS AND FORMATS. BACKGROUND DRAWINGS IN CAD FORM SHOULD BE REQUESTED FROM THE ARCHITECT TO BE MADE AVAILABLE FOR USE.

J JUNCTION BOX & CONDUIT NOTES

1) ALL CONDUIT IS TO BE ¾" UNLESS OTHERWISE NOTED.

2) ONE JUNCTION PULL BOX APPROX. EVERY 100' OF STRAIGHT CONDUIT RUNS. ALSO LOCATE ONE JUNCTION PULL BOX FOR EVERY TWO NINETY DEGREE BENDS OR SIMILAR ANGLES. ACCESS TO THE PULL BOX LOCATIONS SHOULD BE COORDINATED WITH THE DESIGN TEAM.

3) THE JUNCTION BOX LOCATIONS ARE GIVEN FOR COORDINATION PURPOSES ONLY. THE PATHWAY OF THE RELATED CONDUIT WILL BE DETERMINED BY THE MEP FIRM AND FIELD CONDITIONS.

4) EACH JUNCTION BOX SHALL HAVE A PULL STRING PROVIDED FOR FUTURE CABLE INSTALLATIONS. ALL CABLE INSTALLATIONS WILL INCLUDE A REPLACEMENT PULL STRING. ALL CONDUIT RUNS SHALL BE LABELED ON BOTH ENDS.

5) ALL CONDUIT PATHWAYS TO BE STUBBED TO ACCESSIBLE CEILING AREA CONTIGUOUS TO CABLE DESTINATION ROOM. TO PROVIDE FULLY ACCESSIBLE CABLE PATHWAY.

6) ALL CONDUIT SHALL BE CLEARLY MARKED ON EACH END WITH TAPE, LABEL, OR PAINT AS TO DESIGNATE IT SPECIFICALLY FOR AUDIO/VISUAL USE ONLY.

K ELECTRICAL AND MECHANICAL NOTES

1) ANY ELECTRICAL DEVICE LOCATIONS ARE MEANT FOR THE INCORPORATION INTO THE PROJECT ELECTRICAL DRAWINGS FOR INCLUSION INTO THE ELECTRICAL SYSTEMS.

2) POWER RECEPTACLES ARE SHOWN FOR REFERENCE ONLY. THEY ARE SHOWN FOR THE INCORPORATION BY THE ELECTRICAL ENGINEER INTO THEIR STAMPED DRAWINGS.

3) DO NOT RUN ELECTRICAL FEEDS PARALLEL TO ANY AUDIO/ VIDEO/ OR CONTROL CABLE WHEN EVER POSSIBLE. ALL CABLE CROSSING SHOULD BE DONE AT A NINETY DEGREE ANGLE. A MINIMUM OF FOUR FEET OF SEPARATION SHOULD BE MAINTAINED FOR ANY PARALLEL RUNS.

4) DETAILS RELATED TO ELECTRICAL REQUIREMENTS AND HEAT LOADS ARE PROVIDED FOR IN THE DETAILS SECTION OF THE DRAWINGS. OUTLET LOCATIONS ARE CALLED OUT FOR ON BOTH THE DRAWINGS AND THE DETAIL SECTIONS.

5) CABLE TRAYS ARE EXPECTED TO BE IN THE DOMAIN OF THE ELECTRICAL CONTRACTOR AND THE GC. J-HOOKS AND RELATED SUPPORT FOR OTHER CABLING NEEDS SHALL BE PROVIDED BY THE AV INTEGRATOR UNLESS STRUCTURAL REQUIREMENTS DICTATE OTHERWISE.

6) THE ELECTRICAL CONTRACTOR WILL INSTALL ALL FLOOR MOUNT AND OUTLET BOXES. CABLING CONTRACTOR TO FURNISH AND INSTALL VOICE AND DATA CABLING, FACEPLATES AND JACKS AS DETAILED ON DRAWINGS.

L NETWORK CONFIGURATION

1) AT SOME RACK LOCATIONS THERE ARE TWO DATA DROPS INDICATED. ONE DROP IS RECOMMENDED TO BE CONNECTED TO THE ADMINISTRATIVE NETWORK. THE SECOND DROP IS TO BE COORDINATED WITH THE HIGH SPEED INTERNET SERVICE PROVIDER FOR A OUTSIDE ACCESS IP ADDRESS FOR USE WITH THE BACKGROUND MUSIC SYSTEMS. (WHERE APPLICABLE) IF ONLY ONE DATA DROP IS INDICATED THEN THE ADMINISTRATIVE NETWORK IS THE DEFAULT CONNECTION.

2) IF ACCESS TO THE FACILITIES LAN IS NOT AVAILABLE, IT IS THE RESPONSIBILITY OF THE INTEGRATOR TO CREATE A SUB-NETWORK FOR THE SYSTEM TO RESIDE ON AND INTERACT WITH. A V-LAN SHOULD FOLLOW ALL FACILITY AND INDUSTRY STANDARDS FOR CONFIGURATION.

M GENERAL CABLING & OTHER REQUIREMENTS

1) PATCH PANELS ARE TO BE CAT6 OR CAT6A SHIELDED (AS SHOWN IN DRAWING SET) WITH RJ-45 PATCH CABLE CONNECTIONS. THESE ARE TO BE RACK MOUNTABLE WITH PUNCH-DOWN BLOCK CONNECTIONS AND TERMINATED TO T568B PIN CONFIGURATION STANDARDS. PATCH PANELS ARE TO BE SUPPLIED IN AMPLE QUANTITIES AND PORT CONFIGURATIONS TO TERMINATE ALL HORIZONTAL CABLES. PROVIDE SEPARATE PATCH PANELS FOR EACH OF THE FOLLOWING INFRASTRUCTURAL NETWORK TYPES - AUDIO/VISUAL, ADMINISTRATIVE, POS, SECURE, EXECUTIVE, CORPORATE, GUEST, AND COMMON AREA NETWORKS. PATCH PANELS SHOULD BE LABELED ACCORDINGLY TO PROVIDE CLEAR AND CONCISE INFORMATION DETAILING THE OUTLET CIRCUITING FOR EACH PORT. WIRE MANAGEMENT TO BE SUPPLIED BETWEEN EACH PANEL AND ON THE TOP AND BOTTOM OF ALL PANEL ROWS. HORIZONTAL WIRE MANAGEMENT TO BE TWO(2) RACK UNITS IN HEIGHT (3.5")

2) VERTICAL RISERS SHALL BE SECURED TO STEEL ANGLE CHANNEL WITH CABLE STRAPS AT EACH FLOOR. SEE NTI DV DRAWING SET FOR DETAILS.

3) ALL HORIZONTAL CABLING RUNS WILL BE HOME RUN TO THE APPROPRIATE IDF OR AV CLOSEST(AS APPROPRIATE) USING THE CEILING SPACES IN CORRIDORS, UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR THE FINAL ROUTING AND FIELD VERIFICATION OF THE DISTANCE OF EACH STATION RUN. NO RUN LENGTHS SHALL EXCEED TIE/EIA STANDARDS OF 100 METERS-MAX (ENDPOINT TO ENDPOINT, INCLUDING CABLE COILS) UNLESS OTHERWISE NOTED.

4) FOR THE INSTALLATION OF CABLING SYSTEM, ALL EQUIPMENT RACKS, LADDER RACKS, CABLE TRAYS, GROUNDING SYSTEMS AND RELATED EQUIPMENT, MUST FOLLOW THE GUIDELINES ESTABLISHED IN THE MOST CURRENTLY PUBLISHED VERSIONS OF NEC, TIE/EIA 568C, NFPA, INFOCOMM INTERNATIONAL, ANSI, AND ANY LOCAL, STATE, OR MUNICIPAL CODES, IN EFFECT AT THE TIME OF INSTALLATION. ALL CABLE BUNDLES MUST BE INSTALLED USING PROPER WIRE MANAGEMENT TECHNIQUES, USING A NEAT AND WORK PERSON LIKE FASHION. THE CABLE INSTALLER WILL INSTALL CABLE BUNDLES FOLLOWING ALL TIE/EIA & BICSI GUIDELINES AS TO WIRE TIES, CINCHING TIGHTNESS, BEND RADIUS, NEATNESS, WIRE MANAGEMENT, LABELING, ETC. ANY ASSOCIATED HARDWARE, MATERIAL. OR COMPONENTS NEEDED TO PROPERLY INSTALL A COMPLETE AND FUNCTIONAL SYSTEM, PER THESE GUIDELINES, MUST BE INCLUDED IN THE INITIAL BID RESPONSE AND ARE THE RESPONSIBILITY OF THE CABLING CONTRACTOR.

5) ALL HORIZONTAL AND VERTICAL CABLES ARE TO BE PLENUM RATED UNLESS OTHERWISE NOTED. THE CABLING CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH LOCAL CODE OFFICIALS, THE ACCEPTANCE FOR USE OF ANY NON-PLENUM RATED CABLES.

6) ALL CABLE RUNS SHALL BE SUPPORTED IN THE OPEN SPACE AREAS USING CADDY STYLE CATEGORY 6 (6A SHIELDED AS NOTED) RATED J HOOKS USING AN INDEPENDENT SUPPORT SYSTEM (I.E. THE J-HOOKS MUST NOT BE HUNG FROM THE CEILING GRID SUPPORT OR ANY OTHER DISCIPLINES SUPPORT SYSTEM). BRIDLE RINGS OR TYPING CABLES TO STRUCTURE WILL NOT BE PERMITTED

7) THE CONTRACTOR INSTALLING THE CABLING INFRASTRUCTURE IS RESPONSIBLE FOR ALL J-HOOKS, CABLE TRAYS, AND RELATED MATERIALS REQUIRED TO COMPLETE THE CABLE PATHWAY TO THE HOMERUN LOCATION.

8) FIBER RISERS WILL BE TERMINATED INTO RACK MOUNTED FIBER ENCLOSURES OR WC BOXES WITH "LC" STYLE CONNECTORS AND BULKHEADS. FIBER ENCLOSURES WILL BE SUPPLIED IN THE APPROPRIATE PORT CONFIGURATIONS AS REQUIRED. COPPER DATA RISER CABLES SHALL BE TERMINATED ON RACK MOUNTED PATCH PANELS. ALL ENCLOSURES AND TERMINATIONS WILL BE CLEARLY LABELED INDICATING THE FLOOR, CLOSET DESIGNATIONS, AND PORT NUMBER SERVED.

9) THE CABLING CONTRACTOR WILL BE RESPONSIBLE FOR FIRE-STOPPING ALL WALL AND FLOOR PENETRATIONS PER LOCAL CODES.

10) THE CABLING CONTRACTOR WILL PROVIDE THE DESIGN TEAM A COPY OF ALL TEST REPORTS AND PROVIDE ADDITIONAL COPIES FOR RELATED INSTALLATION CONTRACTORS AS NEEDED. (SEE "GENERAL TESTING REQUIREMENTS' SECTION FOR THE TEST REQUIREMENTS)

11) CONDUIT FILL SIZE SHALL FOLLOW THE NEC GUIDELINES FOR FILL CAPACITY.

N CABLE PULLING

1) MAINTAIN MINIMUM BEND RADIUS ON ALL CABLE TYPES. THIS RADIUS IS GENERALLY 4 TIMES THE CABLE O.D. FOR COPPER CABLE TYPES.

2) THE MAXIMUM DISTANCE BETWEEN THE END BOX LOCATION AND THE HOME RUN LOCATION IS 225 FEET.

3) DO NOT EXCEED 25LBS OF PULLING TENSION ON CABLES.

4) MINIMIZE TENSION ON SUSPENDED CABLE RUNS BY PLACING SUPPORTS EVERY 5 FEET WHEN J-HOOKS OR SIMILAR DEVISES ARE BEING USED FOR CABLE SUPPORT.

5) DO NOT OVER CINCH CABLE TIES ON CABLE BUNDLES. CABLES TIES SHOULD BE LOOSELY FITTED OVER THE CABLES AS TO NOT CAUSE INDENTION IN THE CABLE JACKET.

6) PLENUM RATED CABLE TIES MUST BE USED IN ALL RETURN AIR PLENUM SPACES.

7) LEAVE 6 FOOT SERVICE LOOPS OF AT ALL SPEAKER LOCATION.

8) LEAVE 3 FOOT SERVICE LOOPS AT ALL FACEPLATE LOCATIONS.

9) LEAVE 10 FOOT SERVICE LOOPS AT ALL RACK LOCATIONS.

10) AVOID SOURCES OF EMI ON UNSHIELDED CABLES BY MAINTAINING THE FOLLOWING MINIMUM SEPARATION DISTANCES BETWEEN CABLING PATHWAYS AND POTENTIAL SOURCES:

A) 4 FEET FROM MOTORS OR TRANSFORMERS

B) 1 FOOT FROM CONDUIT OR CABLES USED IN ELECTRICAL DISTRIBUTION.

C) 6 INCHES FROM FLUORESCENT LIGHTING.

CABLE PATHWAYS SHOULD CROSS PERPENDICULAR TO FLUORESCENT LIGHTING AND ELECTRICAL POWER CABLES OR CONDUITS.

11) INSTALLER SHALL DEVELOP AND SUBMIT FOR APPROVAL, A PERMANENT LABELING SYSTEM FOR THE CABLING INFRASTRUCTURE INSTALLATION.

O LABELING NOTES

1) ALL CABLES AND EQUIPMENT SHOULD BE EASILY IDENTIFIABLE.

2) CABLES SHOULD BE LABELED USING A THERMAL TRANSFER LABELING DEVICE FOR EASY READING AND DURABILITY. THE LABEL SHOULD BE COVERED WITH CLEAR HEAT SHRINK OR SIMILAR PROTECTIVE COVERING TO HELP PROTECT THE LABEL. THE LABEL SHOULD BE PLACED BETWEEN 4" AND 6" FROM THE CONNECTION OR TERMINATION POINT.

3) CABLES SHOULD BE LABELED WITH A LETTER PREFIX FIRST WHICH INDICATED THE CABLE TYPE, FOLLOWED BY AN IDENTIFICATION NUMBER. EX. S-012 = (S)PEAKER #12
S=SPEAKER LEVEL
L=LINE LEVEL
M=MIC LEVEL
V=VIDEO
C=CONTROL
OTHER INDICATORS MAY BE REQUIRED BASED ON THE CABLE TYPES.

4) ALL LABELS SHALL MATCH DESIGNATIONS SHOWN ON THE CONNECTION DIAGRAM, THE AS-BUILT DRAWINGS, THE QUICK REFERENCE CHART, AND ANY PROGRAMMED SYSTEMS.

5) LABELING SCHEME SHALL FOLLOW EIA/TIA 568C GUIDELINES AND SHALL BE COORDINATED WITH THE CUSTOMER. LABELS MUST BE PRINTED USING A PRE-APPROVED FORMAT. NO HAND WRITTEN LABELS WILL BE ALLOWED. THE LABELS AT THE PATCH PANEL MUST BE OF THE SAME TYPE NUMBERING SCHEME AS THE WORKSTATION OUTLET. ALL LABELING WILL BE GENERATED USING A "GRID PATTERN" LABELING SCHEME. SEE DETAIL SHEET FOR RECOMMENDED LABELING SCHEME.

P GENERAL TESTING REQUIREMENTS

1) VERIFY ALL CABLE IS DEFECT FREE, WITH NO SHORTS AND/OR OPENS PRIOR TO CONNECTION TO ANY HEAD END OR FIELD DEVICES. USE AN OHM METER TO VERIFY THIS.

2) VERIFY THAT ALL IMPEDANCE SWEEPS MATCH THE MANUFACTURES SPECIFICATIONS AND INTENDED DESIGN LEVELS.

3) VERIFY THAT THE POLARITY OF ALL MICROPHONE INPUTS, LINE LEVEL INPUTS AND SPEAKER CABLES IS CORRECT.

4) CONFIGURE ALL GAIN LEVELS, AND SIGNALS FOR OPTIMAL HEADROOM AND STRUCTURE. ALL SIGNALS SHOULD PEAK SIMULTANEOUSLY FOR OPTIMAL PERFORMANCE.

5) OUTPUT LEVELS ON ALL AMPLIFIERS SHOULD BE BALANCED TO MEET PERFORMANCE REQUIREMENTS OF THE SPACE AND TO KEEP NOISE LEVELS AT A MINIMUM.

6) ENSURE THAT THE VIDEO IMAGERY IS FREE FROM DEFECTS SUCH AS HUMBARS, BLOOMING, GHOSTING, OR RELATED DEGRADATION OF SIGNAL QUALITY.

7) VERIFY THAT ALL CABLES, CONNECTIONS, PATCHES, HEAD-END, FIELD, AND MISCELLANEOUS EQUIPMENT IS CONNECTED PROPERLY AND IN GOOD WORKING CONDITION.

8) TEST ALL OUTLETS PERTAINING THE THE AV SYSTEMS FOR CORRECT POLARITY AND VOLTAGE LEVELS. REPORT ANY DISCREPANCY TO THE ELECTRICAL CONTRACTOR.

9) THE AUDIO COVERAGE UNIFORMITY STANDARD (ACU) ANSI/INFOCOMM 1M-2009 SHALL BE FOLLOWED FOR TESTING OF AUDIO UNIFORMITY IN ALL SPACES USING OVERHEAD CEILING SPACES IN AN ENCLOSED ROOM.

10) PROVIDE DOCUMENTATION OF ALL TEST PERFORMED AND THE RESULTS. THIS SHALL INCLUDE POLARITY AND CONTINUITY TESTS, IMPEDANCE SWEEPS OF INSTALLED SPEAKERS, AND OUTLET TEST RESULTS.

11) PROVIDE DOCUMENTATION OF ALL FINAL GAIN AND LEVEL SETTINGS OF ALL HEAD-END EQUIPMENT AS WELL AS ANY CORRESPONDING SETTINGS OF FIELD EQUIPMENT THAT HAS ADJUSTABLE LEVELS.

12) A COPY OF ALL TEST PERFORMED, TEST POINTS, AND RESULTS SHALL BE PROVIDED TO THE CONSULTANT DURING FINAL INSPECTION AND WILL BE INCLUDED IN THE FINAL CLOSEOUT PACKAGE.

13) ALL CATEGORY 6 (OR RELATED) HORIZONTAL RUNS MUST BE TESTED PER THE LATEST REVISION OF TIA/EIA 568C FOR COMPLIANCE TO CATEGORY 6 (OR RELATED) SPECIFICATIONS. TESTERS MUST BE LEVEL III RATED. ALL TESTING MUST BE REVIEWED BY CUSTOMER REPRESENTATIVE PRIOR TO ACCEPTANCE OF CABLING SYSTEM. TEST WILL BE CONDUCTED PER THE MOST RECENTLY AVAILABLE VERSION OF SOFTWARE AND HARDWARE. TEST RESULTS MUST BE SUBMITTED IN DISK FORMAT. A PRINTED VERSION IN BRIEF FORMAT MAY BE REQUIRED.

14) ALL MULTI-MODE FIBER OPTIC TESTS SHALL BE PERFORMED AT THE 850 nm AND 1300 nm WINDOWS IN BOTH DIRECTIONS. SINGLE-MODE FIBER OPTICS TESTS SHALL BE PERFORMED AT THE 1310 nm AND 1550 nm WINDOWS IN BOTH DIRECTIONS (IF APPLICABLE).

15) ALL CONNECTORS SHALL BE TESTED AND THE LOSS MEASURED IN DB. CONNECTORS MUST HAVE A LOSS OF 0.5 DB OR LESS PER MATED PAIR TO BE ACCEPTED.

16) ALL FIBER OPTIC LINKS SHALL BE TESTED AND LOSS MEASURED IN DB/KM. ALL FIBER TO BE TERMINATED WITH "SC" STYLE CONNECTORS.

17) A HARD COPY OF ALL TEST RESULTS INCLUDING LINK LENGTHS, SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER. ALL EVENTS ON THE LINK, INCLUDING RETURN LOSS, SHALL BE MEASURED AND COMPLY WITH TIA/EIA 568C REQUIREMENTS.

Q SYSTEMS TRAINING REQUIREMENTS

1) UPON COMPLETION OF THE SYSTEMS INSTALLATION, CONFIGURATION, AND TESTING, A TRAINING EFFORT SHALL BE SET UP FOR KEY PERSONNEL THAT INTERFACE WITH THE TECHNOLOGY.

2) A PLAN SHOULD BE SUBMITTED TO THE OWNER/OWNER REPRESENTATIVE, CONSULTANT, AND DESIGN TEAM THAT REPRESENTS THE TOPICS THAT WILL BE COVERED.

3) THE TRAINING SHALL INCLUDE BASIC OPERATION, SYSTEMS CAPABILITIES, WORKING WITH INTERFACES, AND VERY BASIC TROUBLE SHOOTING CONCEPT.

4) THIS EFFORT SHOULD INCLUDE AT LEAST TWO TRAINING CLASS TIMES. THIS SHOULD BE VERIFIED WITH OWNERSHIP. ALL ARRANGEMENTS SHOULD BE HANDLED WITH OWNERSHIP AND INTEGRATOR.

5) TRAINING SHOULD INCLUDE ACCESSING PROJECT CLOSEOUT DOCUMENTS AND A REVIEW OF WHERE EACH DOCUMENT TYPE IS LOCATED.

R SYSTEMS WARRANTY

1) FULL WARRANTY FOR ALL EQUIPMENT SHALL BEGIN UPON THE SIGN OFF OF COMPLETION. A MINIMUM OF ONE YEAR ON-SITE SERVICE SHALL BE PROVIDED ON ALL INSTALLATION AND INSTALLATION RELATED MATERIALS. THE MANUFACTURES WARRANTY SHALL BE FULLY SUPPORTED ON-SITE DURING THAT FIRST YEAR.

2) AN OPTIONAL ADDITIONAL SERVICE AND WARRANTY PLAN SHOULD BE SUBMITTED FOR ADDITIONAL SUPPORT BEYOND THE ONE YEAR SUPPORT INDICATED ABOVE.

3) ALL WARRANTY SUPPORT WILL BE DONE DIRECTLY BY THE SUBMITTER OF THIS PROPOSAL. FULL CONTACT INFORMATION INCLUDING EMAIL, PHONE, NAME, AND RELATED INFORMATION SHALL BE PROVIDED AS PART OF THE CLOSE-OUT DOCUMENTATION.

4) ALL WARRANTY WORK SHALL BE DONE BY FACTORY AUTHORIZED FIRMS OR IN ACCORDANCE WITH THE MANUFACTURES ESTABLISHED METHODS OF WARRANTY SUPPORT.

5) ANY PRODUCT THAT IS BEING PURCHASED THROUGH A SECOND PARTY AND THEREFORE RISKING THE LOSS OF WARRANTY SUPPORT SHOULD BE NOTED IN FULL IN THE PROPOSAL DOCUMENTATION FOR FURTHER CONSIDERATIONS.

S PACKAGE INCLUSIONS

1) A COMPETE SET AV INFRASTRUCTURE, CABLING, EQUIPMENT, CONNECTIVITY, PROGRAMMING, AND INSTALLATION DRAWINGS. SPECIFICATIONS ARE INCLUDED IN THE DRAWING SET.

2) ADDITIONAL REQUIREMENTS FOR THE SYSTEM AS PROVIDED BY OTHERS.

3) FULL BIDDABLE PACKAGE FOR ALL AV SYSTEM REQUIREMENTS.

T DRAWING CATEGORIES

THE TWO LETTER CODE AT THE END OF EACH DESCRIPTION INDICATES THE INTENDED CONTRACTORS USE FOR EACH SERIES OF DRAWINGS LISTED BELOW.

GC-GENERAL CONTRACTOR
EC-ELECTRICAL & MECHANICAL
AV-AV INTEGRATOR
RF-GENERAL REFERENCE FOR ALL

SERIES OF DRAWINGS: EXACT NUMBERING STYLE AND INCLUSIONS MAY BE DIFFERENT IN THE FINAL PACKAGE

TA-0.XX COVER & LEGEND SHEETS - (GC)(RF)(AV)
TA-1.XX SYSTEMS FLOOR PLANS - (GC)(EC)(RF)(AV)
TA-2.XX SYSTEMS RCP'S - (GC)(EC)(RF)(AV)
TA-5.XX RISER DIAGRAMS - (GC)(EC)(RF)(AV)
TA-6.XX SYSTEMS ELEVATIONS AND SIGHTLINES - (GC)(RF)(AV)
TA-7.XX SYSTEMS PROGRAMMING - (AV)
TA-8.XX EQUIPMENT AND CONNECTIVITY DOCUMENTS - (AV)
TA-9.XX DETA-IL SHEETS - (GC)(RF)(AV)

DRAWING INDEX

SHEET	SHEET TITLE	COUNT
TA000	COVER SHEET	1 OF 5
TA001	SYMBOL & LEGEND SHEET	2 OF 5
TA110	OVERALL FIRST FLOOR PLAN	3 OF 5
TA801	EQUIPMENT & CONNECTIVITY SHEET	4 OF 5
TA901	INSTALLATION DETAILS	5 OF 5

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

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LOCATION: 19180
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PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

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JAV, MJB, AJD

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COVER SHEET - AV

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DO NOT SCALE DRAWINGS

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PLOT DATE: 4/12/2021 5:17 PM

** SYMBOLS AND LEGEND SHEET **

SYMBOLS / DESCRIPTIONS / INFRASTRUCTURE / EQUIPMENT

INFRASTRUCTURE						CABLE REQUIREMENTS				INTEGRATOR PACKAGE		
CONDUITS, JUNCTION BOXES, AND CABLE PATHWAYS TYPICALLY PROVIDED BY THE GC AND/OR ELECTRICAL SUBCONTRACTOR.						THESE ITEMS TYPICALLY PROVIDED BY THE AV INTEGRATOR				THESE ITEMS TYPICALLY PROVIDED BY THE AV INTEGRATOR		
SYMBOL	DESCRIPTION	BACK-BOX TYPE / SIZE	MOUNT HEIGHT	CONDUIT REQUIREMENTS *Note: All conduit to be contiguous to home-run destinations, J-hooks, or Cable tray Locations.*	NOTES	CABLE	CONNECTORS	FACE PLATE COVER	ACCESSORIES	BRAND	MODEL	NOTES
S1	FLUSH MOUNTED CEILING SPEAKER	INCLUDED WITH SPEAKER	FLUSH TO CEILING	NA	UNITS ARE DAISY CHAINED TOGETHER IN A 70V CONFIGURATION UNLESS OTHERWISE NOTED	(1) SPK1	PHX	NA	NA	TANNOY	CVS 4	UNIT TAPPED AT 7.5W
S2	MEETING ROOMS CEILING SPEAKERS	INCLUDED WITH SPEAKER	FLUSH TO CEILING	NA	UNITS ARE DAISY CHAINED TOGETHER IN A 70V CONFIGURATION UNLESS OTHERWISE NOTED	(1) SPK1	PHX		NA	TANNOY	CMS603DC	UNIT TAPPED AT 15W
S3	WALL MOUNTED SPEAKER	J1	120" AFF	3/4" CONDUIT STUBBED UP TO ACCESSIBLE CEILING LOCATION	UNITS ARE DAISY CHAINED TOGETHER IN A 70V CONFIGURATION UNLESS OTHERWISE NOTED	(1) SPK1	PHX	NA	NA	TANNOY	DVS6T	UNIT TAPPED AT 30W
S4	LANSCAPE SPEAKER	INCLUDED WITH SPEAKER	IN GROUND/PLANTER	ONE (1) 1" PVC, UNDERGROUND, USE CONDUIT JUMPER TO DAISY CHAIN	DAISY CHAIN WIRE PER DRAWINGS W/3' SERVICE LOOP AT EACH LOCATION	(1) SPK1	PHX		NA	JBL	85M	UNIT TAPPED AT 30W
CP.1	AUDIO/VISUAL CONTROL PANEL	J1	SSH	ONE (1) 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE		(1) TPC1	C1	CUSTOM	NA	BIAMP	TEC-X	USE WEATHER RATED MATERIALS FOR OUTDOOR INSTALLATIONS
CP.2	AUDIO/VISUAL CONTROL PANEL	AMX CB-MXP7	SSH	ONE (1) 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE		(1) TPC1	C1	CUSTOM	NA	AMX	MSD-702	USE WEATHER RATED MATERIALS FOR OUTDOOR INSTALLATIONS
FP.1	AUDIO FACE PLATE	J2	SOH	(1) 3/4" CONDUIT STUBBED UP TO ACCESSIBLE CEILING LOCATION	NA	(1) TPC1	C1	T1	NA	QSC	UNDX2IO+	USE WEATHER RATED MATERIALS FOR OUTDOOR INSTALLATIONS

EQUIPMENT & CONNECTOR SYMBOLS

PRODUCTS BELOW ARE SUGGESTIONS, SUBSTITUTIONS WILL BE CONSIDERED AS NECESSARY.

SYMBOL	BRAND	MODEL #	DESCRIPTION
JX	GENERIC	MUST BE 3" DEEP	JUNCTION BOX X= NUMBER OF GANGS
TX	GENERIC	GENERIC	FACEPLATE X= NUMBER OF GANGS
B1	FSR	FL-500P-6-BLP-C	VERIFY LID TYPE WITH ID
B2	FSR	FL-700-BLP-C	VERIFY LID TYPE WITH ID
XL1	NEUTRIK	NC3FD-L-X	X=1 SILVER / BAG-1 BLACK
XL2	NEUTRIK	NC3MD-L-X	X=1 SILVER / BAG-1 BLACK
XL3	SWITCHCRAFT	D3F / D3FB	D3F = SILVER / D3FB = BLACK
XL4	SWITCHCRAFT	D3M / D3MB	D3M = SILVER / D3MB = BLACK
LC1	LEVITON	41085-SLX	X=(W)HITE, (I)VORY, (B)LACK
LC2	NEUTRIK	NO2-4FDW-A	ADD "-1-" FOR SMPTE SHIELD
SC1	LEVITON	41085-MXC	X=(W)HITE, (I)VORY, (B)LACK
C1	BELDON	HIPMP-RJ45CAT6	FOR CAT 6 BASIC PLUG
C2	LEVITON	61110-RY6	FOR CAT 6 BASIC JACK
C3	NEUTRIK	NE8FDV-Y110	FOR CAT6 DURABLE PLUG ADD "-B" FOR BLACK
C4	LEVITON	6110G-RY6	FOR CAT6A JACK
C5	BELDON	HIPMP-RJ45CAT6GC	FOR CAT6A PLUG
C6	NEUTRIK	NE8FDY-C6	FOR CAT6A SHIELDED ADD "-B" FOR BLACK
C7	LEVITON	6A10G-RY6	FOR CAT6A SHIELDED QUICKPORT
BNC	BELDON	FS1BNC	FOR 5 BNC VGA CABLE
1/4"	NEUTRIK	NJ3FP6C	ADD "-BAG" FOR BLACK
PHX	GENERIC	GENERIC	INCLUDED WITH EQUIPMENT

* = DENOTES LOCATION FOR COLOR SELECTION. SEE DETAIL SHEET FOR FURTHER INFORMATION ON EACH UNIT ABOVE.

BULK CABLE TYPE & DESCRIPTION

SYMBOL	BRAND	MODEL #	DESCRIPTION	NOTES
AUD1	BELDEN	6400FE	2 CONDUCTOR 20AWG SHIELDED AUDIO CABLE	
AUD2	BELDEN	6300FE	2 CONDUCTOR 18AWG SHIELDED AUDIO CABLE	
AUD3	BELDEN	6341PC	2 PAIR 18AWG SHIELDED AUDIO CABLE	
CTL1	BELDEN	1392P	22 AWG 1 SHIELDED PAIR & 18 AWG 2 CONDUCTOR	AXLINK / CRESNET
CTL2	BELDEN	1213	CAT 5E UNSHIELDED CABLE	KEYPAD / TOUCH-PANEL / ATTEROTECH
CTL3	BELDEN	2413F	CAT 5E SHIELDED CABLE	DXLINK / DM8G / HAL
CTL4	BELDEN	82842	4 CONDUCTOR CABLE	DMX LIGHTING CONTROL
FIB1	MOHAWK	M9E043	50/125 MM OM3 2 STRAND GRADE 6 FIBER CABLE	
FIB2	MOHAWK	M9E044	50/125 MM OM3 4 STRAND GRADE 6 FIBER CABLE	
FIB3	MOHAWK	M9E261	50/125 MM OM3 12 STRAND ARMOR FIBER CABLE	
FIB4	MOHAWK	M9E251	50/125 MM OM3 12 STRAND ARMOR PATCH CABLE	FOR RISERS
FIB5	MOHAWK	M9W043	SM ENHANCED SM2 2 STRAND FIBER CABLE	
FIB6	MOHAWK	M9W044	SM ENHANCED SM2 4 STRAND FIBER CABLE	
FIB7	MOHAWK	M9W261	SM ENHANCED SM2 12 STRAND ARMOR FIBER CABLE	
FIB8	MOHAWK	M9W251	SM ENHANCED SM2 12 STRAND ARMOR FIBER CABLE	FOR RISERS
SPK1	BELDEN	6300UE	18 AWG 2 CONDUCTOR SPEAKER WIRE	TYPICALLY DAISY CHAINED WITH 6' SERVICE LOOPS AT EACH LOCATION
SPK2	BELDEN	6200UE	16AWG 2 CONDUCTOR SPEAKER WIRE	TYPICALLY DAISY CHAINED WITH 6' SERVICE LOOPS AT EACH LOCATION
SPK3	BELDEN	6000UE	18AWG 2 CONDUCTOR SPEAKER WIRE	TYPICALLY DAISY CHAINED WITH 6' SERVICE LOOPS AT EACH LOCATION
TPC1	MOHAWK	M58281	CAT6	
TPC2	MOHAWK	M58687	GIGALAN10	
TPC3	MOHAWK	M58886	CAT6 SHIELDED	
TPC4	MOHAWK	M58814	LOW SKEW SPECTRUM CAT6	
TPC5	MOHAWK	M58772	CAT6 - INDOOR/ OUTDOOR	
VID1	BELDEN	1395P	25 AWG 5 CONDUCTOR MINI HI-RES COAX	

SEE CABLE PULLING GUIDE ON COVER SHEET FOR INSTALLATION GUIDELINES. ALL CABLES LISTED ARE PLENUM RATED. VERIFY PLENUM REQUIREMENTS WITH GC.

ELECTRICAL SYMBOLS AND NOTES

SYMBOL	DESCRIPTION	MOUNT TYPE & SIZE	MOUNT HEIGHT	CONDUIT REQUIREMENTS
	120V 20AMP DEDICATED CIRCUIT WITH DUPLEX OUTLET*	SEE ELECTRICAL DRAWINGS FOR JUNCTION BOX SIZE	SOH	REFER TO ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS
	120V 20AMP DEDICATED CIRCUIT UNTERMINATED*	SEE ELECTRICAL DRAWINGS FOR JUNCTION BOX SIZE	12" AFC	REFER TO ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS
	120V 20AMP DEDICATED CIRCUIT WITH QUAD OUTLET*	SEE ELECTRICAL DRAWINGS FOR JUNCTION BOX SIZE	SOH	REFER TO ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS
	208V~240V SINGLE PHASE CIRCUIT WITH NEMA L6-30P RECEPTACLE	SEE ELECTRICAL DRAWINGS FOR JUNCTION BOX SIZE	SOH	REFER TO ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS

*RECOMMEND THAT ALL AV REQUESTED OUTLETS BY I.G. WHEN EVER POSSIBLE. A SEPARATE GROUND BAR WITH A COMMON GROUND IS ACCEPTABLE AS WELL.

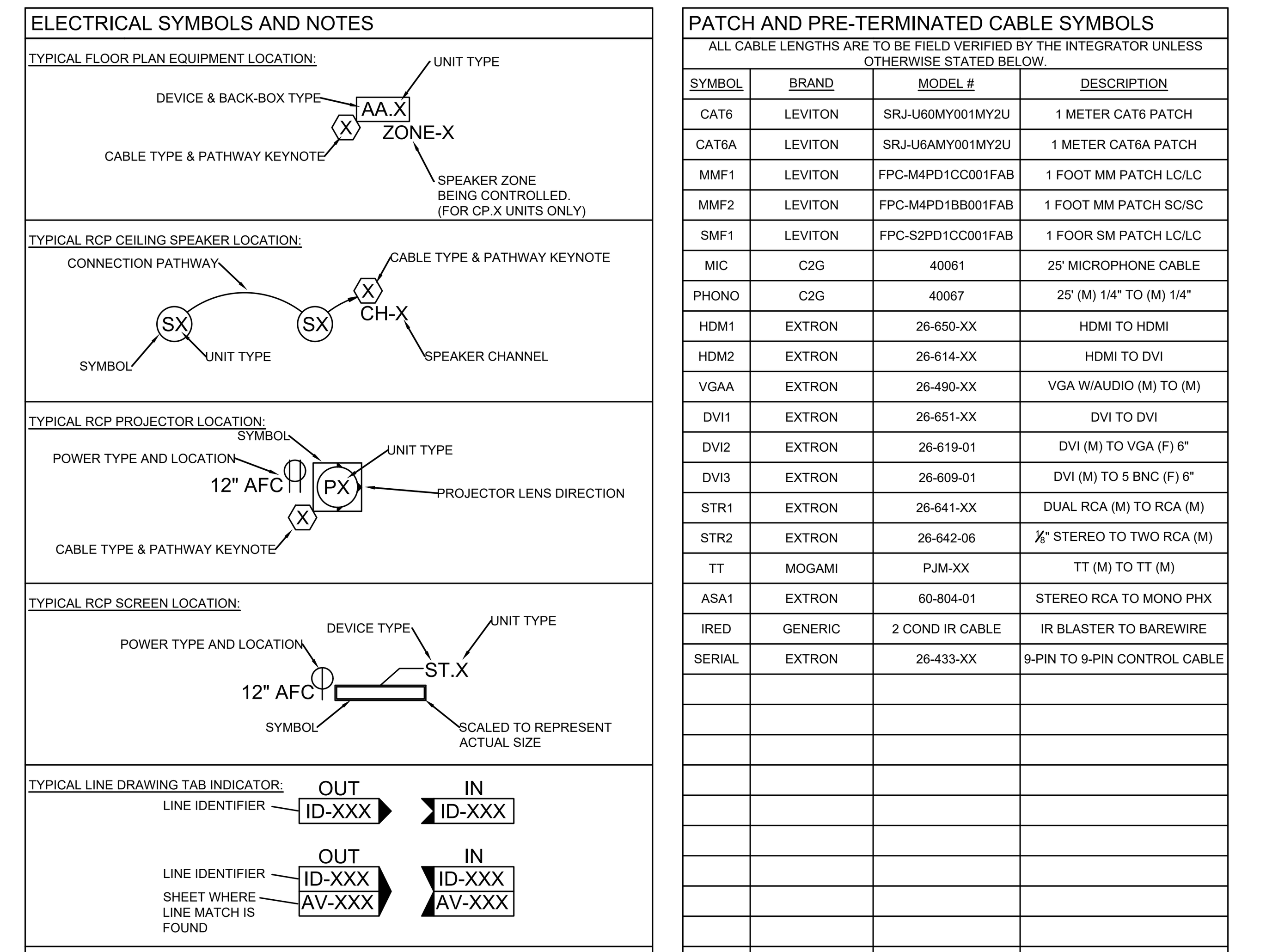
ABBREVIATIONS & TERMS

SYMBOL	DESCRIPTION
LC / SC	FIBER OPTIC TERMINATION (INDIVIDUALLY SPECIFIED)
RJ - XX	DATA TYPE CABLE TERMINATION(RJ-11/RJ-45)
RCA	STANDARD AUDIO/VIDEO CONNECTOR TYPE (M/F)
MINI	1/8" AUDIO CONNECTOR TYPE (M/F)(MONO/STEREO)
XLR	THREE PIN BALANCED AUDIO CONNECTOR TYPE (M/F)
SPDIF	COAXIAL RCA DIGITAL AUDIO CONNECTOR TYPE (M/F)
1/4"	1/4" AUDIO CONNECTOR TYPE (M/F)(MONO/STEREO)
PHOENIX	PHOENIX STYLE CONNECTOR
SP/ON	SPEAK ON TYPE CONNECTION (M/F)
15-PIN	15-PIN CONNECTION TYPE (TYPICAL COMPUTER CONNECTION)
RGBHV	FIVE BNC TYPE CONNECTORS (TYPICAL COMPUTER CONNECTION)
DVI	MULTI-PIN DIGITAL CONNECTOR (TYPICALLY FOR DIGITAL VIDEO)
HDMI	MULTI-PIN DIGITAL CONNECTOR (DIGITAL VIDEO, AUDIO, & CONTROL)
HDCP	HIGH-BANDWIDTH DIGITAL CONTENT PROTECTION
RS-232	9-PIN SERIAL CONTROL CABLE
RG-XX	COAXIAL CABLE CONNECTOR (M/F)
SSH	STANDARD SWITCH HEIGHT FOR THE PROJECT (TYPICALLY 48" ON CENTER)
SOH	STANDARD OUTLET HEIGHT FOR THE PROJECT (TYPICALLY 18" ON CENTER)
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
BFC	BELOW FINISHED CEILING
FP	FLOOR PLAN
RCP	REFLECTIVE CEILING PLAN
UOS	UNLESS OTHERWISE SPECIFIED

ADDITIONAL SYMBOLS

SYMBOL	DESCRIPTION
#XX / AV-X.XX	INTERIOR ELEVATION INDICATOR
#XX / AV-X.XX	EXTERIOR ELEVATION INDICATOR
#XX / AV-X.XX	DETAIL INDICATOR
#XX / AV-X.XX TITLE	TITLE BLOCK
X	KEYNOTE
SX	CEILING MOUNTED SPEAKER TYPE
SX	CEILING MOUNTED SPEAKER TYPE
SX	WALL MOUNTED SPEAKER TYPE
SX	WALL MOUNTED SPEAKER TYPE
PX	PROJECTOR TYPE
- AAAX -	CABLE TYPE
#	RACK TYPE
ST.X	SCREEN TYPE
DT.X	FLAT PANEL TYPE
CA.X	CAMERA TYPE
CP.X	CONTROL PANEL TYPE
FP.X	FACE PLATE TYPE
FB.X	FLOOR BOX TYPE
CB.X	CEILING BOX TYPE

ELECTRICAL SYMBOLS AND NOTES



PATCH AND PRE-TERMINATED CABLE SYMBOLS

ALL CABLE LENGTHS ARE TO BE FIELD VERIFIED BY THE INTEGRATOR UNLESS OTHERWISE STATED BELOW.

SYMBOL	BRAND	MODEL #	DESCRIPTION
CAT6	LEVITON	SRJ-U60MY001MY2U	1 METER CAT6 PATCH
CAT6A	LEVITON	SRJ-U6AMY001MY2U	1 METER CAT6A PATCH
MMF1	LEVITON	FPC-M4PD1CC001FAB	1 FOOT MM PATCH LC/LC
MMF2	LEVITON	FPC-M4PD1BB001FAB	1 FOOT MM PATCH SC/SC
SMF1	LEVITON	FPC-S2PD1CC001FAB	1 FOOR SM PATCH LC/LC
MIC	C2G	40061	25' MICROPHONE CABLE
PHONO	C2G	40067	25' (M) 1/4" TO (M) 1/4"
HDM1	EXTRON	26-650-XX	HDMI TO HDMI
HDM2	EXTRON	26-614-XX	HDMI TO DVI
VGAA	EXTRON	26-490-XX	VGA W/AUDIO (M) TO (M)
DVI1	EXTRON	26-651-XX	DVI TO DVI
DVI2	EXTRON	26-619-01	DVI (M) TO VGA (F) 6"
DVI3	EXTRON	26-609-01	DVI (M) TO 5 BNC (F) 6"
STR1	EXTRON	26-641-XX	DUAL RCA (M) TO RCA (M)
STR2	EXTRON	26-642-06	⅛" STEREO TO TWO RCA (M)
TT	MOGAMI	PJM-XX	TT (M) TO TT (M)
ASA1	EXTRON	60-804-01	STEREO RCA TO MONO PHX
IRED	GENERIC	2 COND IR CABLE	IR BLASTER TO BAREWIRE
SERIAL	EXTRON	26-433-XX	9-PIN TO 9-PIN CONTROL CABLE

XX= LENGTH UNLESS OTHERWISE NOTED.

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW 11.10.20
65% ARCH REVIEW 11.14.20
70% OWNER REV. 01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : SYMBOL & LEGEND SHEET - AV

Project No. : 2018.009

Sheet No. : TA001

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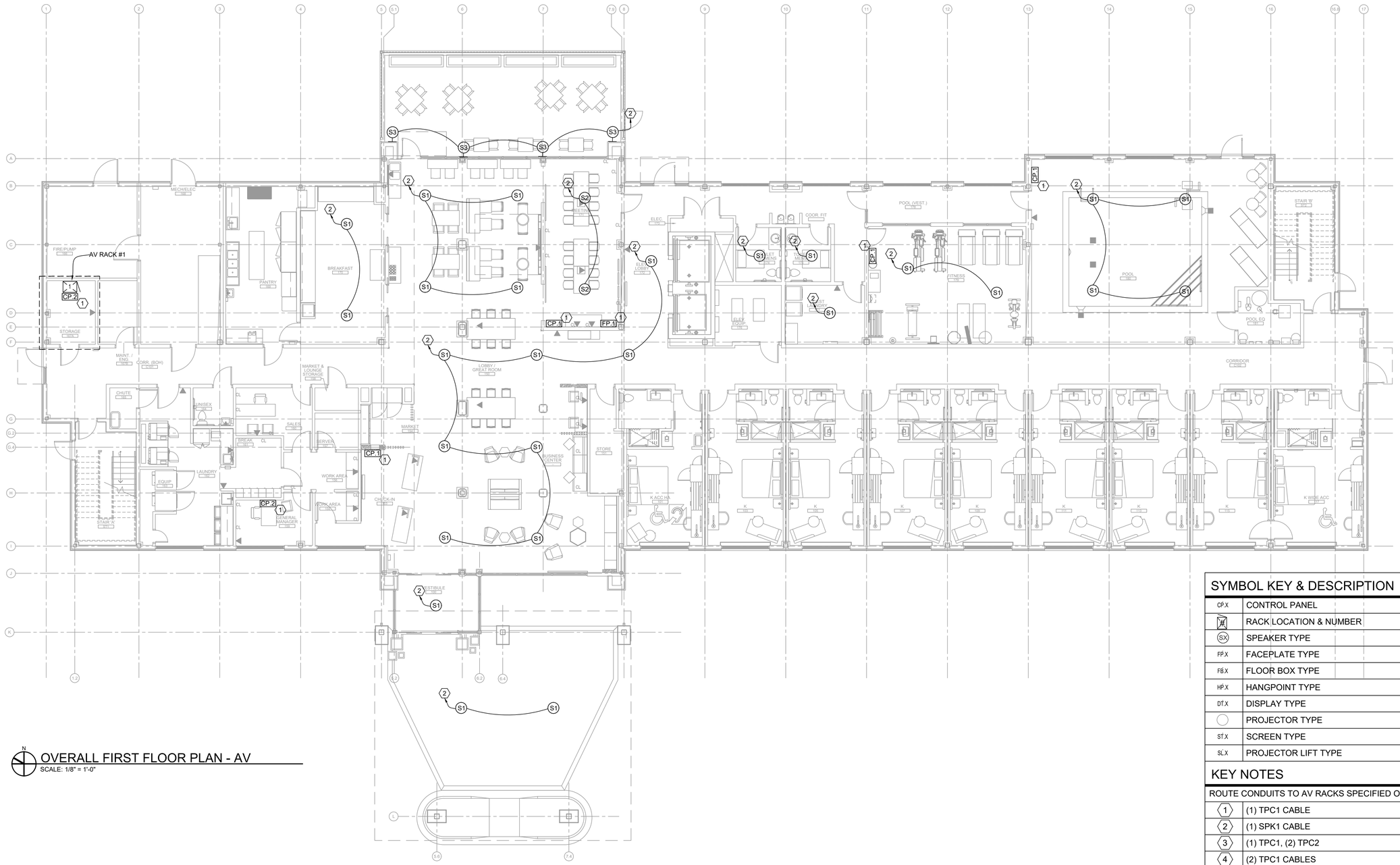

OVERALL FIRST FLOOR PLAN - AV

SCALE: 1/8" = 1'-0"

SYMBOL KEY & DESCRIPTION

CP.X	CONTROL PANEL
#	RACK LOCATION & NUMBER
SX	SPEAKER TYPE
FP.X	FACEPLATE TYPE
FB.X	FLOOR BOX TYPE
HP.X	HANGPOINT TYPE
DT.X	DISPLAY TYPE
	PROJECTOR TYPE
ST.X	SCREEN TYPE
SL.X	PROJECTOR LIFT TYPE

KEY NOTES

ROUTE CONDUITS TO AV RACKS SPECIFIED ON DRAWINGS

1	(1) TPC1 CABLE
2	(1) SPK1 CABLE
3	(1) TPC1, (2) TPC2
4	(2) TPC1 CABLES
5	(3) TPC1 CABLES
6	(2) TPC1 CABLES TO RECEIVER
7	(2) TPC2

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

Checked by :
JAV, MJB, AJD

Sheet Title :
OVERALL FIRST FLOOR PLAN - AV

Project No. :
2018.009

Sheet No. :
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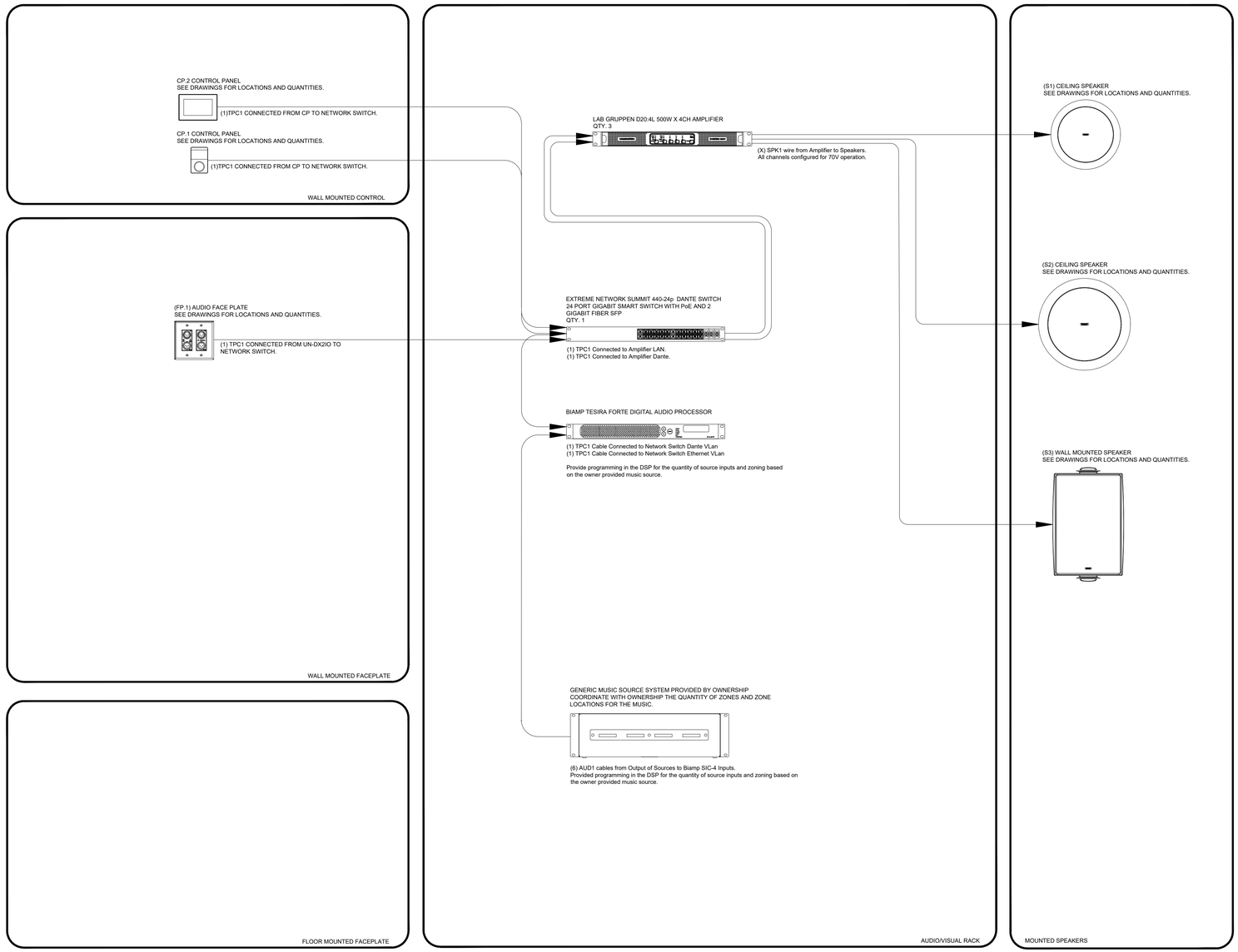
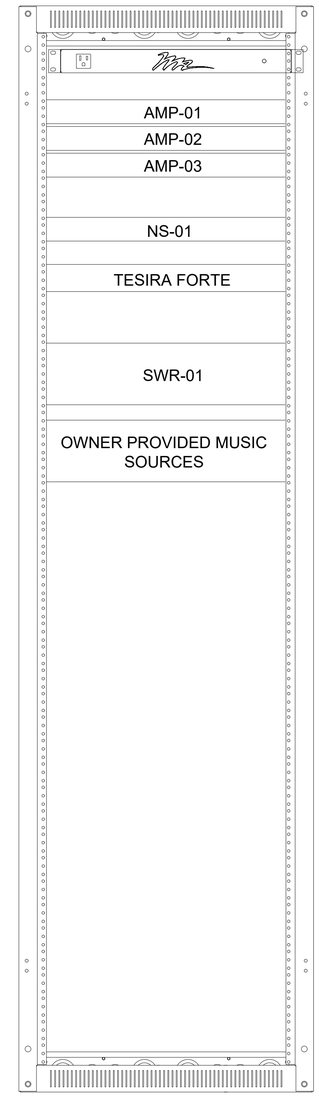


1 TA801 AV RACK #1 WIRING DIAGRAM

NTS

AV RACK EQUIPMENT

THE AV RACK REPRESENTS THE EQUIPMENT AND QUANTITIES OF ALL THE EQUIPMENT SHOWN IN THE CENTER SECTION OF THE FLOW DIAGRAM BELOW. ITEMS SUCH AS PATCH CABLES, MOUNTING EQUIPMENT, CABLE ORGANIZERS, AND RELATED RACK EQUIPMENT ARE EXPECTED TO BE INCLUDED IN THE FINAL PACKAGE. PROVIDE PROPER COOLING, AND AIR CIRCULATION FOR EQUIPMENT IN RACK. TEMPERATURE SHALL NOT EXCEED 85 DEGREES F. PROVIDE CUSTOM SHELVES FOR ALL NONE RACK MOUNT EQUIPMENT INCLUDED IN THE RACK. PROVIDE RACK BLANKS AS NEEDED.
APPROX. HEAT LOAD **1,500** BTU/RACK.
PROVIDE APPROPRIATE POWER STRIPS & CONDITIONING AS NEEDED.



40U MIDDLE ATLANTIC (OR EQUIVALENT)

2 TA801 AV RACK #1 RACK ELEVATION

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Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
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ROCKLAND COUNTY, NY
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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

Checked by :
JAV, MJB, AJD

Sheet Title :
EQUIPMENT & CONNECTIVITY SHEET - AV

Project No. :
2018.009

Sheet No. :
TA801

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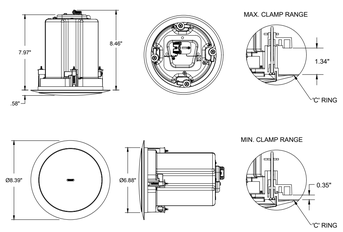
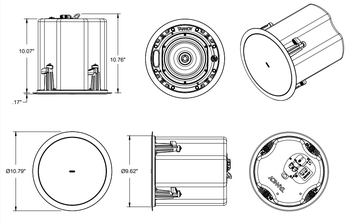


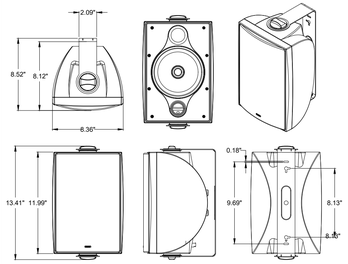
TEMPLATE HOLE CUTOUT SIZE = Ø7.09"

1	(S1) TANNOY CVS4 CEILING SPEAKER
TA9.01	NOT TO SCALE



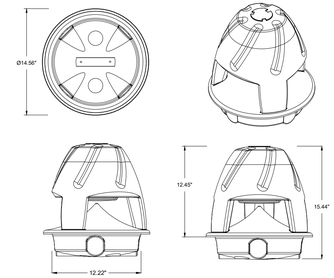
CLAMP MIN./MAX. = 0.37" / 2.36"
TEMPLATE HOLE CUTOUT SIZE = Ø9.96"

2	(S2) TANNOY CMS 603DC BM CEILING SPEAKER
TA9.01	NOT TO SCALE



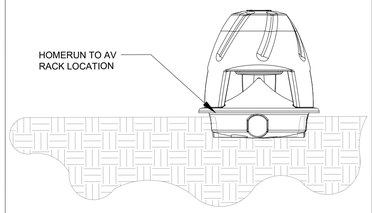
FOLLOW THE MANUFACTURES MOUNTING REQUIREMENTS FOR THE INSTALLATION OF THESE SPEAKERS.

3	(S3) TANNOY DVS-6t SURFACE MOUNT SPEAKER
TA9.01	NOT TO SCALE

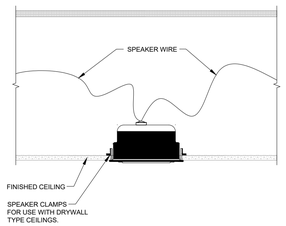


FOLLOW THE MANUFACTURES MOUNTING REQUIREMENTS FOR THE INSTALLATION OF THESE SPEAKERS.

4	(S4) JBL CONTROL 85M LANDSCAPE SPEAKER
TA9.01	NOT TO SCALE

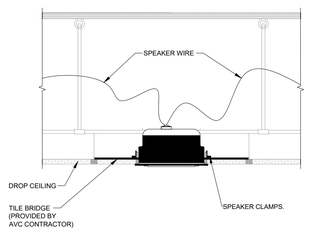


5	IN-GROUND SPEAKER DETAIL
TA9.01	NOT TO SCALE



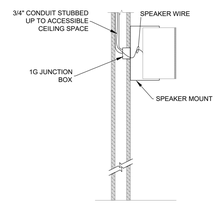
FOLLOW THE MANUFACTURES MOUNTING REQUIREMENTS FOR MAIN MOUNT AND SAFETY CABLE (WHERE REQUIRED) FOR THE INSTALLATION OF THESE SPEAKERS.

6	TYPICAL FINISHED CEILING MOUNT SPEAKER
TA9.01	NOT TO SCALE



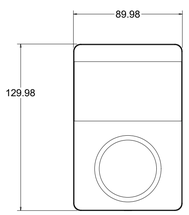
FOLLOW THE MANUFACTURES MOUNTING REQUIREMENTS FOR MAIN MOUNT AND SAFETY CABLE (WHERE REQUIRED) FOR THE INSTALLATION OF THESE SPEAKERS.

7	TYPICAL DROP CEILING MOUNTED SPEAKER
TA9.01	NOT TO SCALE

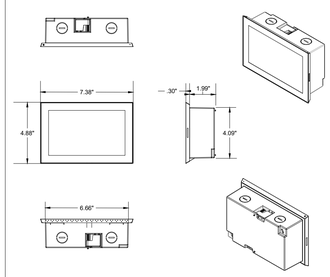


FOLLOW THE MANUFACTURES MOUNTING REQUIREMENTS FOR MAIN MOUNT AND SAFETY CABLE (WHERE REQUIRED) FOR THE INSTALLATION OF THESE SPEAKERS.

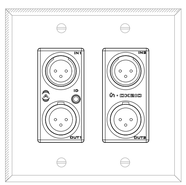
8	TYPICAL WALL MOUNTED SPEAKER DETAIL
TA9.01	NOT TO SCALE



9	(CP.1) BIAMP TEC-X
TA9.01	NOT TO SCALE



10	(CP.2) AMX MSD-702
TA9.01	NOT TO SCALE



(1) ATTEROTECH UN-DX2IO

11	(FP.1) DIGITAL AUDIO FACE PLATE
TA9.01	NOT TO SCALE

1. SOURCE SELECTION
2. VOLUME UP, DOWN, AND MUTE
3. COMBINE ZONES AS NECESSARY (SEE BELOW)

GENERAL NOTES:
Music zones from the music source equipment should be coordinated with the hotel's general manager. Music channels on the amplifier that cover a specific public area should be programmed to act as one zone.

12	(CP.1) PROGRAMMING
TA9.01	NOT TO SCALE

1. SOURCE SELECTION
2. VOLUME UP, DOWN, AND MUTE
3. COMBINE/DIVIDE ROOM.
4. FACE PLATE SELECTION FOR AUDIO IN THE ROOM.
5. FACE PLATE SHOULD BE ABLE TO SELECT SEND AND/OR RECEIVE FOR THE AUDIO.
6. FACE PLATE SHOULD BE ABLE TO ENGAGE PHANTOM POWER AS NEEDED. THE DEFAULT PHANTOM POWER SETTING SHOULD BE OFF.

GENERAL NOTES:
Music zones from the music source equipment should be coordinated with the hotel's general manager. Music channels on the amplifier that cover a specific public area should be programmed to act as one zone.

13	(CP.2) PROGRAMMING
TA9.01	NOT TO SCALE

14	
TA9.01	NOT TO SCALE

15	
TA9.01	NOT TO SCALE

16	
TA9.01	NOT TO SCALE

17	
TA9.01	NOT TO SCALE

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Project :

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

Checked by :
JAV, MJB, AJD

Sheet Title :
INSTALLATION DETAILS - AV

Project No. :
2018.009

Sheet No. :
TA901

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STRUCTURED CABLING & SECURITY SYSTEMS

A SCOPE

GENERAL OVERVIEW

THIS PROJECT INVOLVES THE INSTALLATION OF INFRASTRUCTURE FOR THE VOICE, DATA, MATV, CCTV AND INTRUSION DETECTION SYSTEMS. THE DESIGN OF THESE INFRASTRUCTURE SYSTEMS IS BASED UPON CURRENT INDUSTRY STANDARDS, SUPPORTING AN OPEN SYSTEM ARCHITECTURE.

VOICE AND DATA INFRASTRUCTURE OVERVIEW

FIBER OPTIC AND CAT-6 UTP INFRASTRUCTURE TO SUPPORT DATA, VOICE, AND INTERNET SERVICES THROUGHOUT THE FACILITY. OUTLETS WILL BE CONFIGURED PER FLOOR PLANS AND CORRESPONDING OUTLET CONFIGURATION DETAILS. ALL OUTLETS, PATCH PANELS AND CABLE LINKS ARE TO BE LABELED PER ANSI/TIA/EIA STANDARDS. INSTALLER SHALL DEVELOP AND SUBMIT FOR APPROVAL A LABELING SYSTEM FOR THE INFRASTRUCTURE INSTALLATION USING THE GUIDELINES SPECIFIED HEREIN. SYSTEMS INFRASTRUCTURE SHALL BE TESTED AND CERTIFIED AS DOCUMENTED HEREIN.

MATV INFRASTRUCTURE OVERVIEW

TELEVISION SERVICE TO FACILITY WILL BE DELIVERED VIA A COAXIAL DISTRIBUTION SYSTEM. THE SYSTEM SHALL CONSIST OF RG-6 AND RG-11 COAXIAL CABLING AND COMPONENTS. CABLING CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL CABLE, SPLITTERS/TAPS, AMPLIFIERS, ETC. TO PROVIDE A COMPLETE MATV DISTRIBUTION SYSTEM. LABELING OF ALL CABLE RUNS, HEADEND TERMINATIONS, OUTLET LOCATIONS AND JUNCTION BOX COVERS IS REQUIRED. THE LABELING SCHEME SHALL BE CLEAR, CONCISE AND REFLECTED ON AS-BUILT DRAWINGS.

CCTV AND INTRUSION DETECTION SYSTEMS OVERVIEW

SECURITY SYSTEM WILL CONSIST OF ALL OR SOME OF THE FOLLOWING:
CLOSED CIRCUIT CAMERAS, DIGITAL RECORDER(S), DURESS ALARMS, DOOR CONTACTS AND INTERCOM UNITS. ALL COMPONENTS SHALL BE PROVIDED AND INSTALLED IN APPROPRIATE LOCATIONS PER DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL NECESSARY COMPONENTS, CABLE, HARDWARE, ETC. TO FURNISH COMPLETE SYSTEM.

CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING TRAINING TO OPERATOR PERSONNEL, AS REQUIRED, TO ENSURE THE APPROPRIATE PERSONNEL ARE FAMILIAR AND FLUENT IN OPERATING AND PROGRAMMING SYSTEMS. TRAINING SESSIONS SHALL BE COORDINATED WITH OWNER/OPERATOR PRIOR TO COMPLETION OF SYSTEM INSTALLATION.

B PROJECT SPECIFIC CONDITIONS

1. ALL CABLE REMOVAL AND NEW WORK SHALL BE COORDINATED WITH HOTEL PERSONNEL.
2. ALL NEW CABLE PATHWAYS SHALL BE SELECTED TO MINIMIZE RUN LENGTHS AND TO MINIMIZE DEMOLITION OF WALLS AND CEILINGS REQUIRED TO ENABLE CABLE PULLING. ALL WALL AND CEILING DEMOLITION REQUIRED FOR CABLE INSTALL SHALL BE REPAIRED AND FINISHED TO MATCH FINISHES STATES ON ARCHITECTURAL AND I.D. DRAWINGS.
3. EXISTING TELEPHONE, DATA AND TV CABLES IN NON-SCOPE AREAS ARE NOT TO BE DISTURBED. IDENTIFY PRESENCE AND LOCATION OF SAME PRIOR TO DEMOLITION.

C CONTRACTOR PROJECT REQUIREMENTS

1. INSTALLATION SHALL COMPLY WITH APPLICABLE CODES INCLUDING BUT NOT LIMITED TO ANSI/TIA/EIA 568C (FOR STRUCTURED CABLING SYSTEM), NATIONAL ELECTRICAL CODE, NFPA GUIDELINES, AND ANY LOCAL CODES OR ORDINANCES IN EFFECT.
2. CABLING CONTRACTOR IS RESPONSIBLE FOR THEIR OWN CLEANUP.
3. CABLING CONTRACTOR IS RESPONSIBLE FOR SAFE KEEPING OF THEIR OWN MATERIAL. ANY LOSSES OF MATERIAL ARE THE RESPONSIBILITY OF THE CABLING CONTRACTOR. THE OWNER, GENERAL CONTRACTOR, ETC. IS NOT RESPONSIBLE FOR LOSSES.
4. ALL WORK WILL BE SCHEDULED AND CONTINGENT UPON THE SCHEDULE OF THE GENERAL CONTRACTOR. PROJECT CABLING CONTRACTOR SHALL ATTEND REGULAR AND MANDATORY SAFETY MEETINGS FOR PROJECT MANAGER AND/OR TECHNICIANS.
5. CABLING CONTRACTOR MUST COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT BEFORE DRILLING OR CORING FLOORS FOR CABLE ACCESS OR "SHOOTING" FASTENERS INTO CONCRETE FOR CABLE SUPPORT AND PATHWAY SYSTEMS.
6. IT IS THE RESPONSIBILITY OF THE CABLING CONTRACTOR TO VERIFY FINAL OUTLET PLACEMENT PRIOR TO ANY CONDUIT ROUGH IN BOX INSTALLATION. VERIFICATION PROCESS SHALL INCLUDE REFERENCING I.D., MEP AND ARCHITECTURAL DRAWINGS AS WELL AS FIELD VERIFICATION.
7. PROVISIONS OUTLINED IN RELATED PROJECT DOCUMENTS, DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SCOPE.
8. IT IS A RESPONSIBILITY OF THE CABLING CONTRACTOR TO IMMEDIATELY NOTIFY NETWORK TECHNOLOGIES, INC. (NTI) OF ANY CONFLICTS/DISCREPANCIES ON THE PROJECT DOCUMENTS. IN CASE OF SUCH CONFLICT, MOST STRINGENT REQUIREMENT APPLIES UNLESS OTHERWISE NOTED/DIRECTED BY NTI.
9. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND CABLING IN THE PROPER SEQUENCE ACCORDING TO THE OVERALL CONSTRUCTION SCHEDULE. ALL COSTS ASSOCIATED WITH PREPARATION OF A BID PROPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. CABLING CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS FOR PROJECT. PROVIDE CURRENT LV LICENSE REQUIRED PER STATE REGULATIONS.
11. PROVIDE PROOF OF CERTIFICATION OF TEAM MEMBERS. INCLUDE ANY RCDD MEMBERS ON STAFF OR INSTALLATION TEAM. VOICE/DATA CABLING CONTRACTOR SHALL BE A CURRENTLY CERTIFIED CONTRACTOR FOR THE MANUFACTURER OF THE CABLING SYSTEM USED.

D OTHER DRAWING SETS

1. CABLING CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND REVIEWING ALL CONSTRUCTION DOCUMENTS AS ARE NECESSARY TO BID AND COMPLETE THE INSTALLATION OF SYSTEMS SPECIFIED HEREIN. DRAWING SETS WHICH ARE NECESSARY TO ASCERTAIN COMPLETE PROJECT SCOPE INCLUDE, BUT ARE NOT LIMITED TO, ARCHITECTURAL, ELECTRICAL AND INTERIOR DESIGN SETS.

E ELECTRICAL AND MECHANICAL NOTES

1. ANY ELECTRICAL POWER DEVICE LOCATIONS INDICATED HEREIN ARE INTENDED FOR INCORPORATION INTO THE PROJECT ELECTRICAL DRAWINGS AS PART OF THE ELECTRICAL DESIGN.
2. ESTIMATED HEAT LOADS ARE SHOWN FOR REFERENCE ONLY AND ARE INTENDED FOR THE INCORPORATION INTO THE PROJECT MECHANICAL DRAWINGS AS PART OF THE MECHANICAL DESIGN.
3. ALL MDF, IDF AND AV ROOMS TO MAINTAIN 70°F AND LESS THAN 60% RH.

F JUNCTION BOX & CONDUIT NOTES

1. REFER TO RISER DIAGRAM, FLOOR PLAN AND SYMBOL LEGEND FOR OUTLET CONDUIT REQUIREMENTS.
2. PROVIDE A PULL BOX FOR EVERY 100' OF STRAIGHT CONDUIT RUNS. ALSO LOCATE ONE PULL BOX FOR EVERY TWO NINETY DEGREE BENDS OR SIMILAR ANGLES. ACCESS TO THE PULL BOX LOCATIONS SHALL BE COORDINATED WITH THE DESIGN TEAM AND GENERAL CONTRACTOR.
3. PULL BOX LOCATIONS ARE SHOWN FOR COORDINATION PURPOSES ONLY. THE PATHWAY OF THE RELATED CONDUIT WILL BE DETERMINED BY THE MEP FIRM AND FIELD CONDITIONS.
4. PROVIDE PULL STRING IN ALL CONDUITS.
5. ALL OUTLET CONDUITS SHALL BE STUBBED TO ACCESSIBLE CEILING AREA CONTIGUOUS TO CABLE DESTINATION ROOM TO PROVIDE FULLY ACCESSIBLE CABLE PATHWAY.
6. ALL CONDUITS SHALL BE CLEARLY MARKED ON EACH END WITH TAPE, LABEL, OR PAINT AS TO DESIGNATE IT SPECIFICALLY FOR DATA/VOICE, TV OR SECURITY USE ONLY.
7. IF APPROVED BY G.C. (BOX ELIMINATORS MAY BE USED IN LIEU OF BACK BOXES) CABLES MAY BE ROUTED THROUGH WALL. CABLES SHALL BE PLENUM RATED.
8. ALL CONDUITS SHALL BE EMT UNLESS OTHERWISE NOTED.

G GROUNDING AND BONDING

1. THE PRIMARY PURPOSE OF THE GROUNDING AND BONDING SYSTEM IS TO CREATE A ROBUST PATH FOR EQUALIZATION OF VOLTAGES AND FOR RESULTANT SURGE CURRENTS TO RETURN TO THEIR SOURCE. LIGHTNING, POWER-SYSTEM FAULT CURRENTS, CIRCUIT SWITCHING (MOTORS ON AND OFF), ACTIVATION OF SURGE-PROTECTION DEVICES, AND ELECTROSTATIC DISCHARGE (ESD) ARE COMMON CAUSES OF TRANSIENT VOLTAGES AND ELECTRICAL SURGES.
2. ALL RACKS AND CABINETS SHALL BE PROPERLY GROUNDED PER NEC AND TIA/EIA STANDARDS.
3. TMGB GROUNDING BUSBAR SHALL BE INSTALLED IN MDF, SEE GROUNDING RISER DIAGRAM DETAILS.
4. TGB GROUNDING BUSBAR SHALL BE INSTALLED IN IDF, SEE GROUNDING RISER DIAGRAM DETAILS.
5. INSTALL GROUND BUSBAR A MINIMUM OF 18" AFF WITH 6" CLEAR ON ALL SIDES.
6. MINIMUM OF A #6 AWG GREEN GROUNDING CONDUCTOR TO EACH EQUIPMENT RACK(S) AND TO BONDED LADDER RACK(S).
7. REFER TO GROUNDING DETAILS FOR ADDITIONAL INFORMATION.

H FIRESTOPPING

1. PROVIDE FIRESTOP SYSTEMS CONSISTING OF A MATERIAL, OR COMBINATION OF INSTALLED MATERIALS TO RETAIN THE INTEGRITY OF FIRE RESISTANCE RATED CONSTRUCTION. FLAME, SMOKE AND/OR HOT GASES THROUGH PENETRATIONS AND PERIMETER OPENINGS IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE FOR THIS PROJECT.
2. FIRESTOPPING OF ALL FLOOR AND WALL OPENINGS, ACCORDING TO LOCAL CODES AND ORDINANCES, SHALL BE BY THE CABLING CONTRACTOR. ALL WALL OPENINGS MUST BE SLEEVED AND FIRE STOPPED.
3. CABLING CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING ALL PENETRATIONS THROUGH FIRE RATED DEMISING WALLS.
4. ALL FIRESTOPPING MEANS AND METHODS SHALL BE U.L. LISTED AND APPROVED.

I CABLE PULLING GUIDELINES

1. MAINTAIN MINIMUM BEND RADIUS OF:
   - 4 TIMES THE CABLE O.D. FOR COPPER UNSHIELDED TWISTED PAIR CABLE.
   - 10 TIMES THE CABLE O.D. OR 1.2" (WHICHEVER IS LARGER) FOR FIBER OPTIC CABLE.
2. MAXIMUM CABLE LENGTH BETWEEN TELECOMMUNICATIONS CLOSET TERMINATION AND OUTLET IS 90 METERS (295 FEET).
3. PULLING TENSION ON 4 PAIR, UNSHIELDED TWISTED PAIR CABLE CAN NOT EXCEED 25 POUNDS.
4. TO MINIMIZE TENSION IN SUSPENDED CABLE RUNS, LIMIT SPANS TO 5 FEET OR LESS BETWEEN SUPPORTS (I.E. J-HOOKS).
5. DO NOT OVER CINCH CABLE TIES ON CABLE BUNDLES. CABLE TIES SHOULD BE LOOSELY FITTED OVER CABLE(S) SO AS NOT TO CAUSE AN INDENTATION IN THE CABLE JACKETS.
6. PLENUM RATED CABLE TIES MUST BE USED IN ALL RETURN AIR PLENUM SPACES.
7. LEAVE A 20'-0" SERVICE LOOP AT EACH END OF FIBER RISER RUNS.
8. FIBER RISERS SHALL BE LABELED EVERY 50'-0" FOR CLEAR IDENTIFICATION IN PATHWAYS.
9. LEAVE A 10'-0" SERVICE LOOP AT EACH END OF ALL TELEPHONE RISERS.
10. LEAVE 12" OF SLACK NEATLY COILED IN OUTLET BOX FOR EACH HORIZONTAL CABLE RUN.
11. TO AVOID SOURCES OF EMI ON UNSHIELDED CABLES, MAINTAIN THE FOLLOWING MINIMUM SEPARATION DISTANCES BETWEEN CABLING PATHWAYS AND POTENTIAL SOURCES:
    - 4 FEET FROM MOTORS OR TRANSFORMERS.
    - 1 FOOT FROM CONDUIT OR CABLES USED FOR ELECTRICAL POWER DISTRIBUTION.
    - 5 INCHES FROM FLUORESCENT LIGHTING.
12. CABLING PATHWAYS SHOULD CROSS PERPENDICULAR TO FLUORESCENT LIGHTING AND ELECTRICAL POWER CABLES OR CONDUITS.
13. THESE GUIDELINES ARE NOT INTENDED TO SERVE AS A SUBSTITUTE FOR TIA/EIA 568C SERIES OF STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING, UNDERSTANDING AND CONFORMING TO THE SPECIFICATIONS CONTAINED WITHIN ALL OF THE FOLLOWING STANDARDS:
    - ANSI/TIA-568-C.0, GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES.
    - ANSI/TIA/EIA 568-C.1, COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARDS.
    - ANSI/TIA-568-C.2, BALANCED TWISTED-PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARD.
    - ANSI/TIA-568-C.3, OPTICAL FIBER CABLING COMPONENTS STANDARD.
    - ANSI/TIA/EIA-569 - COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
    - ANSI/TIA/EIA-606 - ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
    - ANSI/TIA/EIA-607 - COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

J GENERAL INFRASTRUCTURE INSTALLATION NOTES

1. INSTALLATION OF CABLING SYSTEM, ALL EQUIPMENT RACKS & LADDER RACKS, GROUNDING, ETC. MUST FOLLOW INSTALLATION GUIDELINES IN THE MOST CURRENTLY PUBLISHED VERSION OF NEC, TIA/EIA 568C, NFPA AND ANY LOCAL, STATE OR MUNICIPAL CODES IN EFFECT AT TIME OF INSTALLATION. ALL CABLE BUNDLES SHALL BE INSTALLED USING PROPER WIRE MANAGEMENT TECHNIQUES, IN A NEAT AND WORKMANLIKE FASHION. INSTALLER SHALL INSTALL CABLE BUNDLES FOLLOWING ALL TIA/EIA & BICSI GUIDELINES AS TO WIRE TIES, CINCHING TIGHTNESS, BEND RADIUS, NEATNESS, WIRE MANAGEMENT, LABELING, ETC.
2. FREE STANDING EQUIPMENT RACKS SHALL BE FASTENED TO CONCRETE FLOOR AND FASTENED TO OVERHEAD RACK WITH PROPER HARDWARE. RACKS SHALL BE SUPPLIED IN SUFFICIENT QUANTITY TO PROVIDE RACK SPACE FOR ALL PATCH PANELS, ASSOCIATED WIRE MANAGEMENT AND ANTICIPATED NETWORK HARDWARE.
3. VERTICAL CABLE MANAGEMENT SHALL BE SUPPLIED BETWEEN EACH RACK AND ON THE ENDS OF ALL RACK CONFIGURATIONS OR AS NOTED ON RACK ELEVATIONS.
4. MDF & IDF ROOMS SHALL HAVE LADDER RACK (CPI OR APPROVED EQUIVALENT) ABOVE RACKS AND FROM RACKS TO WALL IN APPROPRIATE ROOMS AS DEPICTED IN CLOSET LAYOUTS.
5. PATCH PANELS SHALL BE CATEGORY 6, RJ-45, RACK MOUNT STYLE PANELS TERMINATED TO T568B COLOR CODE. PATCH PANELS SHALL BE SUPPLIED IN AMPLE QUANTITY AND PORT CONFIGURATION TO TERMINATE ALL HORIZONTAL DATA AND RISER DATA CABLES. PROVIDE SEPARATE PATCH PANELS FOR EACH OF THE FOLLOWING OUTLET TYPES:
   - PUBLIC/FUNCTION AREAS
   - ADMINISTRATIVE AREAS
   - WIRELESS HSIA
   - IPTV (IF APPLICABLE)
   - DATA
   - POINT OF SALE
   - COPPER DATA RISER CABLES

   ALL PATCH PANELS SHALL BE LABELED ACCORDINGLY TO PROVIDE CLEAR AND CONCISE INFORMATION DETAILING THE OUTLET CIRCUITING FOR EACH PATCH PANEL PORT. WIRE MANAGEMENT SHALL BE SUPPLIED BETWEEN EACH PANEL AND ON THE TOP AND BOTTOM OF ALL PANEL ROWS. HORIZONTAL WIRE MANAGEMENT SHALL BE 2 RACK UNITS IN HEIGHT (3.5").
6. PATCH CABLES AND WORKSTATION CABLES SHALL BE SUPPLIED BY OTHERS OR AS NOTED IN "ALTERNATE/UNIT PRICING" BLOCK.
7. ALL HORIZONTAL COPPER CABLE SHALL BE 4 PAIR, UTP, CATEGORY 6. ALL HORIZONTAL CABLE SHALL BE PLENUM RATED. IF REQUIRED BY LOCAL CODES "LC" CABLE SHALL BE USED IN LIEU OF PLENUM RATED CABLE. ALL RISER CABLES MUST BE PLENUM RATED. CABLING CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH LOCAL CODE OFFICIALS THE ACCEPTANCE FOR USE OF ANY NON-PLENUM RATED CABLE.
8. ALL HORIZONTAL CABLING RUNS SHALL BE SUPPORTED IN THE OPEN SPACE AREAS AN INDEPENDENT SUPPORT SYSTEM (I.E. J-HOOKS MUST NOT BE HUNG FROM CEILING GRID SUPPORT OR ANY OTHER DISCIPLINES SUPPORT SYSTEM). LOCAL CODE MAY REQUIRE CONTRACTOR TO SUPPORT EXISTING CABLING INFRASTRUCTURE AND MUST MEET CURRENT LOCAL CODE. BRIDLE RINGS OR TYING CABLES TO STRUCTURE SHALL NOT BE PERMITTED.
9. CABLING CONTRACTOR SHALL FURNISH ALL RACKS, OVERHEAD CABLE TRAY AND ALL ASSOCIATED HARDWARE NECESSARY TO BUILD OUT CABLING SYSTEM INFRASTRUCTURE IN ALL IDF LOCATIONS AND EQUIPMENT ROOMS AS DETAILED ON THE DRAWINGS.
10. ANALOG TELEPHONE RISER SHALL TERMINATE ON CATEGORY 6 RATED 110 BLOCKS. TELEPHONE RISER CABLES SHALL BE 24 GAUGE, CATEGORY 3, UTP, CMP RATED, SUPPLIED IN THE APPROPRIATE PAIR COUNT TO PROVIDE 2 PAIRS PER HORIZONTAL VOICE CABLE PLUS 25% FOR FUTURE GROWTH.
11. 110 BLOCKS SHALL BE INSTALLED IN A SUFFICIENT QUANTITY TO FULLY TERMINATE ALL HORIZONTAL VOICE CABLES AND PROVIDE 4 PAIRS FOR RISER CABLE TERMINATIONS. HORIZONTAL AND VERTICAL CROSS-CONNECT CABLE MANAGEMENT TROUGHS MANUFACTURED BY THE SAME MANUFACTURER AS THE 110 BLOCKS SHALL BE USED BETWEEN 110 BLOCKS AND VERTICAL BLOCK ARRAYS. D-RINGS WILL NOT BE PERMITTED FOR CABLE MANAGEMENT IN THE IDF FIELD. REAR CABLE TROUGH TYPE ARRANGEMENT IS REQUIRED FOR THE 110 BLOCKS. REAR FEED AND CABLE DRESSING IN THE CABLE TROUGHS IS REQUIRED FOR ALL CABLE, BOTH WORKSTATION AND RISERS. CABLING CONTRACTOR SHALL PROVIDE ALL VOICE CROSS-CONNECTING AT WALL FIELDS UNLESS OTHERWISE NOTED.
12. ALL GUESTROOM HORIZONTAL CABLING RUNS SHALL BE HOMERUN TO THE APPROPRIATE IDF USING THE PRIMARY CABLING PATHWAYS IDENTIFIED ON THE FLOOR PLANS. UNLESS OTHERWISE NOTED, DATA CABLES SHALL TERMINATE ON DATA PATCH PANELS. TELEPHONE HORIZONTAL CABLES SHALL TERMINATE ON THE IDF 110 BLOCKS OR PATCH PANELS AS NOTED. CONTRACTOR IS RESPONSIBLE FOR FINAL ROUTING AND FIELD VERIFICATION OF LENGTH OF STATION RUNS. CABLE LENGTHS SHALL NOT EXCEED TIA/EIA STANDARDS (90 METERS MAXIMUM).
13. ALL TELEPHONE AND DATA JACKS SHALL BE CATEGORY 6, 8 POSITION, RJ-45, TERMINATED TO T568B PIN CONFIGURATION.
    - DATA JACKS SHALL BE BLACK.
    - VOICE AND TV JACKS SHALL MATCH FACEPLATE COLOR.
    - ALL P.O.S. JACKS SHALL BE BLUE.

    ALL JACKS SHALL BE LABELED WITH APPROPRIATE ICON FOR VOICE, DATA OR P.O.S. CIRCUIT.
14. WALL OUTLET FACEPLATES SHALL BE SINGLE GANG, UP TO 6 POSITIONS PER SINGLE GANG PLATE. MODULAR FURNITURE FACEPLATES SHALL BE USED WHERE REQUIRED, IF APPLICABLE. BLANKS SHALL BE INSERTED IN OPEN POSITIONS ON FACEPLATE. FACEPLATES SHALL BE OF THE SAME MANUFACTURER AS THE JACKS AND PATCH PANELS. ALL WALL MOUNTED PHONE OUTLETS SHALL HAVE WALL MOUNT FACE PLATE. (REFER TO INTERIOR DESIGN (I.D.) DRAWINGS FOR WALL MOUNT LOCATIONS).
15. FACEPLATE COLOR SHALL MATCH ELECTRICAL OUTLET FACEPLATE COLOR UNLESS OTHERWISE SPECIFIED ON I.D. DRAWINGS.
16. ALL NETWORK SWITCHES AND OTHER ACTIVE ELECTRONIC EQUIPMENT TO BE SUPPLIED AND INSTALLED BY OTHERS UNLESS NOTED OTHERWISE.
17. TYPICALLY, VOICE AND DATA OUTLETS SHALL BE AT STANDARD OUTLET HEIGHT, UNLESS OTHERWISE NOTED. ALL DATA AND TV OUTLETS REQUIRE ADJACENT ELECTRICAL OUTLETS. ALL WALL PHONES SHALL BE 48 INCHES A.F.F. UNLESS OTHERWISE NOTED. NO BACK TO BACK OUTLETS ON SHARED WALLS; OFFSET BY A MINIMUM OF (1) STUD CAVITY.
18. DEVICE LOCATIONS IDENTIFIED ON THESE DRAWINGS ARE APPROXIMATE AND ARE INTENDED TO CONVEY OUTLET CONTENTS. IF A CONFLICT EXISTS REGARDING FINAL OUTLET PLACEMENT DEFER TO INTERIOR DESIGN AND ELECTRICAL DRAWINGS FOR FINAL OUTLET LOCATIONS.
19. CABLE JACKET COLOR:
    - ALL DATA SYSTEMS CABLE SHALL BE BLUE.
    - GUESTROOM VOICE CABLE (NON-IP) SHALL BE GRAY.
    - WIRELESS NODE CABLE SHALL BE YELLOW.

K LABELING GUIDELINES

1. LABELING SCHEME SHALL FOLLOW EIA/TIA 06A/568C GUIDELINES AND SHALL BE COORDINATED WITH THE CUSTOMER. LABELS SHALL BE TYPE WRITTEN AND PRINTED USING A PRE-APPROVED FORMAT. NO HAND-WRITTEN LABELS SHALL BE ALLOWED. THE LABELS AT THE PATCH PANEL SHALL BE OF THE SAME TYPE NUMBERING SCHEME AS THE WORKSTATION OUTLET.

L FIBER INFRASTRUCTURE INSTALLATION NOTES

1. THE OPTICAL FIBER CABLE CONSTRUCTION SHALL CONSIST OF 50/125 MM OR SINGLEMODE OPTICAL FIBERS OR A COMBINATION OF THESE MEDIA. INDIVIDUAL FIBERS AND GROUPS OF FIBERS SHALL BE IDENTIFIABLE IN ACCORDANCE WITH ANSI/TIA/EIA-598-A.
2. FIBER ENCLOSURES SHALL BE SUPPLIED IN APPROPRIATE PORT CONFIGURATION AS REQUIRED FOR HORIZONTAL AND RISER FIBER CABLES. ALL FIBER ENCLOSURES AND TERMINATIONS SHALL BE CLEARLY LABELED INDICATING THE FLOOR, CLOSET DESIGNATION AND PORT NUMBER SERVED.
3. ALL FIBER SHALL BE TERMINATED WITH "LC" STYLE CONNECTORS UNLESS NOTED OTHERWISE.
4. THE OPTICAL FIBER PATCH CORD SHALL BE A TWO-FIBER CABLE, OF THE SAME FIBER TYPE AND CONNECTIVITY AS THE OPTICAL FIBER CABLING PLANT IT IS INTENDED TO PATCH.

M DATA/VOICE/FIBER TESTING

1. ALL DATA AND FULLY TERMINATED VOICE HORIZONTAL RUNS SHALL BE TESTED PER THE LATEST REVISION OF TIA/EIA 568C FOR COMPLIANCE TO GIGABIT ETHERNET USING A PENTA-SCANNER PLUS LANCAT OR FLUKE DIGITAL DSP-1000, 2000 OR 4000. TESTERS SHALL BE LEVEL II RATED (MINIMUM. ALL TESTING MUST BE REVIEWED BY CUSTOMER REPRESENTATIVE PRIOR TO ACCEPTANCE OF CABLING SYSTEM. TEST SHALL BE CONDUCTED PER THE MOST RECENTLY AVAILABLE VERSIONS OF SOFTWARE AND HARDWARE. TEST RESULTS SHALL BE SUBMITTED IN A DISK FORMAT. A PRINTED VERSION IN BRIEF FORMAT MAY BE REQUIRED.
2. ALL CROSS CONNECTED TELEPHONE DROPS TO BE TESTED FOR CONTINUITY, CROSSED PAIRS AND SHORTS FROM JACK TO RISER BLOCKS AT MDF.
3. ALL MULTI-MODE FIBER OPTIC TESTS SHALL BE PERFORMED AT THE 850mm AND 1300mm WINDOWS IN BOTH DIRECTIONS
4. ALL CONNECTORS SHALL BE TESTED AND THE LOSS MEASURED IN DB. CONNECTORS SHALL HAVE A LOSS OF 0.5 DB OR LESS PER MATED PAIR TO BE ACCEPTED.
5. ALL FIBER OPTIC LINKS SHALL BE TESTED AND LOSS MEASURED IN DB/KM.
6. A SOFT COPY OF ALL TEST RESULTS INCLUDING LINK LENGTHS SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER. ALL EVENTS ON THE LINK, INCLUDING RETURN LOSS, SHALL BE MEASURED AND COMPLY WITH TIA/EIA 568B REQUIREMENTS.

N MATV INSTALLATION NOTES

1. REFER TO MATV SYSTEM SPECIFICATIONS AND MATV SYSTEM COMPONENTS SPECIFICATION LIST FOR ADDITIONAL SYSTEM REQUIREMENTS. CONTRACTOR SHALL USE SPECIFIED COMPONENTS OR NTI'S APPROVED EQUIVALENT. IN EITHER CASE, THE MATV CONTRACTOR IS RESPONSIBLE FOR THE SIGNAL REQUIREMENTS INDICATED WITHIN MATV SYSTEM SPECIFICATIONS.
2. TV OUTLET LOCATIONS SHALL BE HOMERUN IN ACCORDANCE WITH THE FLOOR PLAN AND CABLING RISER DIAGRAM.
3. CABLING CONTRACTOR SHALL LEAVE A MINIMUM OF 2'-0" OF SLACK PRIOR TO TERMINATION ON ALL HORIZONTAL CABLE PULL AT OUTLET END.
4. MATV IDF LOCATIONS TO BE INTERCONNECTED WITH MATV MDF LOCATION WITH PLENUM RATED BACKBONE CABLES PER THE MATV RISER DIAGRAM. CONTRACTOR TO LEAVE A MINIMUM OF A 6'-0" SERVICE LOOP PRIOR TO TERMINATION ON BOTH ENDS.
5. CONTRACTOR IS RESPONSIBLE FOR LABELING ALL MATV SYSTEM COAX CABLE RUNS AS FOLLOWS:
   - THE LABELING SYSTEM SHALL DESIGNATE THE CABLES ORIGIN DESTINATION ON EACH END OF THE RUN.
   - ALL LABELING INFORMATION SHALL BE RECORDED ON AS-BUILT DRAWINGS UPON PROJECT COMPLETION.
6. NO CORING OR FLOOR DRILLING IS ALLOWED PRIOR TO COORDINATION AND APPROVAL FROM GENERAL CONTRACTOR.

O MATV SYSTEM SPECIFICATIONS

1. THE MATV DISTRIBUTION SYSTEM SHALL CONSIST OF ALL EQUIPMENT, COMPONENTS AND CABLING NECESSARY TO DISTRIBUTE NTSC RF TELEVISION SIGNALS. THIS SCOPE INCLUDES, BUT IS NOT LIMITED TO:
   - COAXIAL CABLE
   - DISTRIBUTION AMPLIFIERS
   - DISTRIBUTION PASSIVES (SPLITTERS, DIRECTIONAL COUPLERS, FILTERS)
   - CABLE CONNECTORS, WALL PLATES AND ADAPTERS
2. DISTRIBUTION SHALL BE ACCOMPLISHED VIA DEDICATED OUTLET HOMERUNS. AS THE ACTUAL INSTALLED CABLE LENGTHS CAN AFFECT THE REQUIRED TAP VALVES AND AMPLIFICATION LEVELS, THE DESIGN OF THE AMPS/TAPS MUST BE ACCOMPLISHED BY THE CONTRACTOR. ALL AMPS AND TAPS MUST BE MOUNTED IN ACCESSIBLE AREAS FOR FUTURE SERVICEABILITY.
3. THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO OWNER, OWNER'S REPRESENTATIVE AND OWNER'S MATV VENDOR(S) FOR APPROVAL PRIOR TO INSTALLATION. SUBMITTALS SHALL COMPLETELY DESCRIBE THE MATV DISTRIBUTION SYSTEM AND SHALL INCLUDE SCHEMATIC DIAGRAMS, COMPONENT AND CABLE CUT SHEETS, TAP VALUES AND OTHER PERTINENT COMPONENT SETTINGS.
4. THE MATV DISTRIBUTION SYSTEM SHALL PROVIDE CLEAR RECEPTION OF TELEVISION SIGNALS TO ALL DESIGNATED RECEIVING LOCATIONS WITHIN THE FACILITY. REFER TO FLOOR PLANS FOR TV OUTLET LOCATIONS.
5. PASSIVE DEVICES (DIRECTIONAL COUPLES, TAPS, SPLITTERS, ETC.) MUST HAVE A FREQUENCY RATING OF 5 MHZ TO 1 GHZ AND A SHIELDING RATING OF -100 DBMV OR BETTER.
6. INSTALL ALL PASSIVE DEVICES IN AN ACCESSIBLE SPACE. PASSIVE DEVICES MOUNTED IN CEILINGS OR WALLS SHALL HAVE ACCESS PANELS ASSOCIATED WITH THEM.
7. PASSIVE DEVICES SHALL HAVE A MINIMUM PORT-TO-PORT ISOLATION OF 23 DBMV.
8. RISER CABLES SHALL BE RG-11 CABLES UP TO 300 FEET AND HARD LINE (.5") OVER 300 FEET. ALL RISER CABLES SHALL BE SWEPT FROM 5 MHZ TO 1 GHZ.
9. HORIZONTAL CABLES SHALL BE RG-6 CABLES UP TO 150 FEET AND RG-11 CABLES OVER 150 FEET.
10. ALL RG-6 AND RG-11 COAXIAL CABLES SHALL HAVE COMPRESSION-TYPE CONNECTORS. HEX-CRIMP CONNECTORS ARE NOT ACCEPTABLE.
11. ALL END-OF-RISERS AND UNUSED DEVICE PORTS SHALL BE TERMINATED AT 75 OHMS. ALL "F" CONNECTIONS ON ACTIVE DEVICES SHALL BE TIGHTENED TO A TORQUE OF 15 INCH POUNDS. ALL "F" CONNECTIONS ON PASSIVE DEVICES SHALL BE TIGHTENED TO A MINIMUM TORQUE OF 15 INCH POUNDS, NOT TO EXCEED 25 INCH POUNDS.

(CONTINUED IN NEXT COLUMN)

(CONTINUED FROM PREVIOUS COLUMN BELOW)

12. ALL COAXIAL CABLE SHALL HAVE AN IMPEDANCE OF 75 OHMS. ALL RG-6 AND RG-11 CONNECTORS SHALL BE COMPRESSION TYPE AND SHALL MEET THE MANUFACTURER'S SPECIFICATIONS FOR THE TYPE OF CABLE BEING USED. ALL COAXIAL CABLES SHALL HAVE A MINIMUM RF SHIELDING CHARACTERISTIC OF 60%. EACH REEL OF COAXIAL CABLE USED IN THE SYSTEM SHALL CONTAIN AN ATTACHED CONFIRMATION TAG STATING THAT THE ROLL WAS SWEEP TESTED FOR 1 GHZ OPERATION. IF THE FACILITY IS LOCATED NEAR THE AIRPORT, MILITARY BASE, LARGE METROPOLITAN AREA OR OTHER AREA THAT MAY BE SUSCEPTIBLE TO INTERFERENCE, THEN QUAD SHIELD CABLE SHALL BE USED.
13. PLENUM RATED CABLE (OR LIMITED COMBUSTIBLE PLENUM CABLE WHERE REQUIRED BY LOCAL CODES) SHALL BE USED FOR ALL RUNS THROUGH PLENUM SPACES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCEPTANCE OF THE USE OF NON-PLENUM RATED CABLE, WHERE APPLICABLE, WITH THE LOCAL CODE OFFICIALS.
14. ALL CABLE RUNS

STRUCTURED CABLING SYMBOL LEGEND

SYMBOL	DESCRIPTION	CABLE COUNT	CABLE DESCRIPTION	WORK AREA TERMINATION	CLOSET TERMINATION	STANDARD MOUNTING HEIGHT (AFF)	ELECTRICAL ROUGH-IN	POWER REQUIREMENT	REMARKS
▼#	# PORT DATA OUTLET (# = NUMBER OF PORTS)	#	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, CONDUIT STUB TO ACCESSIBLE CEILING SPACE, SIZED PER CABLE QTY: 1-4 = 3/4"Ø, 5-6 = 1"Ø, 7-8 = 1-1/4"Ø	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	
▼# (boxed)	# PORT DATA FLOOR BOX OUTLET (# = NUMBER OF PORTS)	#	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	FLOOR BOX	1 GANG SECTION OF FLOOR BOX - SPECIFIED BY ELECTRICAL ENGINEER, 1.5"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	120VAC / 20A DUPLEX POWER OUTLET IN SAME OR ADJACENT FLOOR BOX	
A ▼#	# PORT ADMIN OUTLET (# = NUMBER OF PORTS)	#	CAT6, CMP	JACK INSERT, CAT6, RJ45	DEDICATED ADMIN PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, CONDUIT STUB TO ACCESSIBLE CEILING SPACE, SIZED PER CABLE QTY: 1-4 = 3/4"Ø, 5-6 = 1"Ø, 7-8 = 1-1/4"Ø	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	CABLES TO BE TERMINATED ON DEDICATED ADMIN PATCH PANELS
A ▼# (boxed)	# PORT DATA FLOOR BOX OUTLET (# = NUMBER OF PORTS)	#	CAT6, CMP	JACK INSERT, CAT6, RJ45	DEDICATED ADMIN PATCH PANEL, CAT6, RJ45	FLOOR BOX	1 GANG SECTION OF FLOOR BOX - SPECIFIED BY ELECTRICAL ENGINEER, 1.5"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	120VAC / 20A DUPLEX POWER OUTLET IN SAME OR ADJACENT FLOOR BOX	CABLES TO BE TERMINATED ON DEDICATED ADMIN PATCH PANELS
POS-T ▼#	# PORT POINT OF SALE TERMINAL OUTLET (# = NUMBER OF PORTS)	#	CAT6, CMP	JACK INSERT, CAT6, RJ45	DEDICATED POS PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, CONDUIT STUB TO ACCESSIBLE CEILING SPACE, SIZED PER CABLE QTY: 1-4 = 3/4"Ø, 5-6 = 1"Ø, 7-8 = 1-1/4"Ø	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	CABLES TO BE TERMINATED ON DEDICATED POS PATCH PANELS
POS-P ▼#	# PORT POINT OF SALE PRINTER OUTLET (# = NUMBER OF PORTS)	#	CAT6, CMP	JACK INSERT, CAT6, RJ45	DEDICATED POS PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, CONDUIT STUB TO ACCESSIBLE CEILING SPACE, SIZED PER CABLE QTY: 1-4 = 3/4"Ø, 5-6 = 1"Ø, 7-8 = 1-1/4"Ø	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	CABLES TO BE TERMINATED ON DEDICATED POS PATCH PANELS
F ▼2	3 PORT OUTLET - DATA AND FIBER	2	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, (2) 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	
		1	2 STRAND, OM3 CMP	LC DUPLEX INSERT	FIBER PANEL, LC DUPLEX				
TC ▼	1 PORT TIME CLOCK OUTLET	1	CAT6, CMP	JACK INSERT, CAT6, RJ45 SEE REMARKS	PATCH PANEL, CAT6, RJ45 SEE REMARKS	TYPICAL 42-48", VERIFY WITH ARCH	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	TYPICALLY REQUIRES ADJACENT 120VAC / 20A DUPLEX EMERGENCY POWER POWER OUTLET. SEE REMARKS	TIME CLOCK IS VENDOR SPECIFIC; CONSULT TIME CLOCK PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE AND OUTLET TERMINATION AND POWER REQUIREMENTS
DS ▼	1 PORT DIGITAL SIGNAGE OUTLET	1	CAT6, CMP SEE REMARKS	CAT6, RJ45 SEE REMARKS	PATCH PANEL, CAT6, RJ45 SEE REMARKS	TYPICAL 48-60", VERIFY WITH ARCH/I.D.	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	SEE REMARKS	DIGITAL SIGNAGE IS VENDOR SPECIFIC; CONSULT SIGNAGE PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE AND OUTLET TERMINATION AND POWER REQUIREMENTS
WN ▼	1 PORT WALL MOUNTED WIRELESS NODE OUTLET	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	120"' SEE REMARKS	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	N/A - TYPICALLY POE POWERED BY OTHERS	CONFIRM MOUNTING HEIGHT AND LOCATION WITH I.D. AND WIFI VENDOR PRIOR TO ROUGH IN.
WN ⊚	1 PORT CEILING MOUNTED WIRELESS NODE OUTLET	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	ABOVE FINISHED CEILING	TYPICALLY NOT REQUIRED UNLESS OTHERWISE NOTED ON PLANS	N/A - TYPICALLY POE POWERED BY OTHERS	CONFIRM OUTLET LOCATION WITH I.D. AND WIFI VENDOR PRIOR TO ROUGH IN. OUTLET IS TYPICALLY MOUNTED IN ACCESSIBLE CEILING SPACE, OR BEHIND ACCESS PANEL. INSTALL 10' SERVICE LOOP FOR FUTURE RELOCATION, SEE DETAILS.
ZN ⊚	1 PORT CEILING MOUNTED ZIGBEE NODE OUTLET	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	ABOVE FINISHED CEILING	TYPICALLY NOT REQUIRED UNLESS OTHERWISE NOTED ON PLANS	N/A - TYPICALLY POE POWERED BY OTHERS	CONFIRM OUTLET LOCATION WITH ARCHITECT AND ZIGBEE VENDOR PRIOR TO ROUGH IN. OUTLET IS TYPICALLY MOUNTED IN ACCESSIBLE CEILING SPACE, OR BEHIND ACCESS PANEL. INSTALL 10' SERVICE LOOP FOR FUTURE RELOCATION, SEE DETAILS.
⊚#	# PORT CEILING MOUNTED OUTLET (# = NUMBER OF PORTS)	#	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	ABOVE FINISHED CEILING	TYPICALLY NOT REQUIRED UNLESS OTHERWISE NOTED ON PLANS	N/A - UNLESS OTHERWISE NOTED ON PLANS	OUTLET IS TYPICALLY MOUNTED IN ACCESSIBLE CEILING SPACE, OR BEHIND ACCESS PANEL. INSTALL 10' SERVICE LOOP FOR FUTURE RELOCATION, SEE DETAILS.
D ▼	1 PORT GUESTROOM DESK DATA OUTLET	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, REFER TO GUESTROOM RACEWAY DETAIL FOR CONDUIT REQ.	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	
B ▼	1 PORT BED PHONE OUTLET - VOIP	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, REFER TO GUESTROOM RACEWAY DETAIL FOR CONDUIT REQ.	N/A - TYPICALLY POE POWERED BY OTHERS	
H ▼	1 PORT HOUSE PHONE OUTLET - VOIP	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	N/A - TYPICALLY POE POWERED BY OTHERS	PHONE OUTLETS ABOVE STANDARD MOUNTING HEIGHT REQUIRE FACEPLATE WITH MOUNTING STUDS
#V▼#D	DATA/VOICE COMBINATION OUTLET (#V = # VOICE PORTS #D = # OF DATA PORTS)	#D	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, CONDUIT STUB TO ACCESSIBLE CEILING SPACE, SIZED PER CABLE QTY: 1-4 = 3/4"Ø, 5-6 = 1"Ø, 7-8 = 1-1/4"Ø	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	
		#V	CAT6, CMP	JACK INSERT, CAT6, RJ45	110 BLOCK				PROVIDE A 10'-0" SERVICE LOOP ABOVE 110 BLOCKS IN CLOSET FOR VOICE CABLE
▽	1 PORT PHONE OUTLET - ANALOG	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	110 BLOCK	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	PHONE OUTLETS ABOVE STANDARD MOUNTING HEIGHT REQUIRE FACEPLATE WITH MOUNTING STUDS. PROVIDE A 10'-0" SERVICE LOOP ABOVE 110 BLOCKS IN CLOSET
B ▽	1 PORT BED PHONE OUTLET - ANALOG	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	110 BLOCK	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, REFER TO GUESTROOM RACEWAY DETAIL FOR CONDUIT REQ.	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	PROVIDE A 10'-0" SERVICE LOOP ABOVE 110 BLOCKS IN CLOSET
E ▽	1 PORT ELEVATOR PHONE OUTLET - ANALOG	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	110 BLOCK	18"	N/A	N/A	PROVIDE A 10'-0" SERVICE LOOP ABOVE 110 BLOCKS IN CLOSET. COORDINATE TERMINATION WITH ELEVATOR VENDOR.
H ▽	1 PORT HOUSE PHONE OUTLET - ANALOG	1	CAT6, CMP	JACK INSERT, CAT6, RJ45	110 BLOCK	18"	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	PHONE OUTLETS ABOVE STANDARD MOUNTING HEIGHT REQUIRE FACEPLATE WITH MOUNTING STUDS. PROVIDE A 10'-0" SERVICE LOOP ABOVE 110 BLOCKS IN CLOSET
TV ▼#	# PORT DATA TV OUTLET - IPTV	#	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45	PER ARCH/I.D. DRAWINGS	4" X 4" BACK BOX WITH 1 GANG MUD RING, CONDUIT STUB TO ACCESSIBLE CEILING SPACE, SIZED PER CABLE QTY: 1-4 = 3/4"Ø, 5-6 = 1"Ø, 7-8 = 1-1/4"Ø	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	
(TV)	1 PORT COAX TV OUTLET	1	COAX	F TYPE INSERT	MATV BACKBOARD, F TYPE	PER ARCH/I.D. DRAWINGS	4" X 4" BACK BOX WITH 1 GANG MUD RING, TYPICAL NON GUESTROOM 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE. FOR GUESTROOM, REFER TO GUESTROOM RACEWAY DETAIL	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	USE RG6 COAX FOR LENGTHS UP TO 150' USE RG11 COAX FOR LENGTHS OVER 150'
▼ (TV)	2 PORT TV OUTLET - COAX AND DATA	1	COAX, CMP	F TYPE INSERT	MATV BACKBOARD, F TYPE	PER ARCH/I.D. DRAWINGS	4" X 4" BACK BOX WITH 1 GANG MUD RING, TYPICAL NON GUESTROOM 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE. FOR GUESTROOM, REFER TO GUESTROOM RACEWAY DETAIL	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	USE RG6 COAX FOR LENGTHS UP TO 150' USE RG11 COAX FOR LENGTHS OVER 150'
		1	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45				
▼2 (TV)	3 PORT TV OUTLET - COAX AND DATA	1	COAX, CMP	F TYPE INSERT	MATV BACKBOARD, F TYPE	PER ARCH/I.D. DRAWINGS	4" X 4" BACK BOX WITH 1 GANG MUD RING, TYPICAL NON GUESTROOM 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE. FOR GUESTROOM, REFER TO GUESTROOM RACEWAY DETAIL	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	USE RG6 COAX FOR LENGTHS UP TO 150' USE RG11 COAX FOR LENGTHS OVER 150'
		2	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45				
F ▼2 (TV)	4 PORT OUTLET - COAX, DATA AND FIBER	1	COAX, CMP	F TYPE INSERT	MATV BACKBOARD, F TYPE	PER ARCH/I.D. DRAWINGS	4" X 4" BACK BOX WITH 1 GANG MUD RING, (2) 3/4"Ø CONDUITS STUB TO ACCESSIBLE CEILING SPACE.	120VAC / 20A DUPLEX POWER OUTLET WITHIN THE SAME STUD CAVITY	USE RG6 COAX FOR LENGTHS UP TO 150' USE RG11 COAX FOR LENGTHS OVER 150'
		2	CAT6, CMP	JACK INSERT, CAT6, RJ45	PATCH PANEL, CAT6, RJ45				
		1	2 STRAND, OM3 CMP	LC DUPLEX INSERT	FIBER PANEL, LC DUPLEX				
▬	J-HOOK PATHWAY	N/A	N/A	N/A	N/A	ABOVE CEILING	N/A	N/A	SUPPORT CABLES EVERY 4'-5' WITH J-HOOKS SECURED TO WALL OR STRUCTURE ABOVE. SEE DETAILS

INTRUSION DETECTION SYMBOL LEGEND

SYMBOL	DESCRIPTION	CABLE COUNT	CABLE DESCRIPTION	WORK AREA TERMINATION	CLOSET TERMINATION	STANDARD MOUNTING HEIGHT (AFF)	ELECTRICAL ROUGH-IN	POWER REQUIREMENT	REMARKS
DC	DOOR CONTACT	1	2C/22 AWG,CMP, STRANDED, UNSHIELDED	DEVICE	SYSTEM CONTROL PANEL	N/A	3/4"Ø CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING. PROVIDE HOLE IN DOOR FRAME FOR ACCESS TO CONDUIT FEED.	N/A	
DA	DURESS ALARM PUSH BUTTON	1	2C/22 AWG,CMP, STRANDED, UNSHIELDED	DEVICE	SYSTEM CONTROL PANEL	TYPICALLY UNDER COUNTER, VERIFY WITH ARCH	SINGLE GANG, 3-1/2" DEEP BACK BOX WITH MUD RING, WITH 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING.	N/A	
M	MOTION DETECTOR - CEILING MOUNTED	1	4C/22 AWG,CMP, STRANDED, UNSHIELDED	DEVICE	SYSTEM CONTROL PANEL	CEILING MOUNTED	ACCESS HOLE THROUGH CEILING WITH 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING.	TYPICALLY POWERED BY SYSTEM CONTROL PANEL POWER SUPPLY. SEE REMARKS	SECURITY SYSTEM IS VENDOR SPECIFIC; CONSULT PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE TYPE AND TERMINATION AND POWER REQUIREMENTS
KP	KEYPAD	1	6C/22 AWG,CMP, STRANDED, SHIELDED	DEVICE	SYSTEM CONTROL PANEL	TYPICAL 48"-54", VERIFY WITH ARCH	SINGLE GANG, 3-1/2" DEEP BACK BOX WITH MUD RING WITH 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING.	TYPICALLY POWERED BY SYSTEM CONTROL PANEL POWER SUPPLY. SEE REMARKS	SECURITY SYSTEM IS VENDOR SPECIFIC; CONSULT PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE TYPE AND TERMINATION AND POWER REQUIREMENTS
SCP	SECURITY CONTROL PANEL	N/A	N/A	N/A	N/A	48"-60"	MINIMUM OF (2) 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING. SEE REMARKS.	TYPICALLY REQUIRES 120VAC / 20A EMERGENCY POWER OUTLET OR HARDWIRE. SEE REMARKS	SECURITY SYSTEM IS VENDOR SPECIFIC; CONSULT PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE TYPE AND TERMINATION AND POWER REQUIREMENTS

ACCESS CONTROL AND INTERCOM SYMBOL LEGEND

SYMBOL	DESCRIPTION	CABLE COUNT	CABLE DESCRIPTION	WORK AREA TERMINATION	CLOSET TERMINATION	STANDARD MOUNTING HEIGHT (AFF)	ELECTRICAL ROUGH-IN	POWER REQUIREMENT	REMARKS
CR	CARD READER	1	6C/22 AWG,CMP, STRANDED, SHIELDED	DEVICE	SYSTEM CONTROL PANEL	TYPICAL 42"-48", VERIFY WITH ARCH	SINGLE GANG, 3-1/2" DEEP BACK BOX WITH MUD RING, TYPICALLY MOUNTED 8" FROM DOOR FRAME ON HANDLE SIDE WITH 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING.	TYPICALLY POWERED BY SYSTEM CONTROL PANEL POWER SUPPLY. SEE REMARKS.	CARD READER SYSTEM IS VENDOR SPECIFIC; CONSULT PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE TYPE AND TERMINATION AND POWER REQUIREMENTS
IC	INTERCOM REMOTE STATION	1	CAT6, CMP	MALE PLUG CAT6, RJ45	PATCH PANEL, CAT6, RJ45	TYPICAL 42"-48", VERIFY WITH ARCH	INSTALL MANUFACTURERS RECOMMENDED BACK BOX WITH 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING. SEE REMARKS.	TYPICALLY POE POWERED BY OTHERS. SEE REMARKS.	INTERCOM SYSTEM IS VENDOR SPECIFIC; CONSULT PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE TYPE AND TERMINATION AND POWER REQUIREMENTS
ICM	INTERCOM MASTER STATION	1	CAT6, CMP	JACK INSERT CAT6, RJ45	PATCH PANEL, CAT6, RJ45	TYPICAL 18"-36", VERIFY WITH ARCH	INSTALL MANUFACTURERS RECOMMENDED BACK BOX WITH 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING. SEE REMARKS.	TYPICALLY POE POWERED BY OTHERS. SEE REMARKS.	INTERCOM SYSTEM IS VENDOR SPECIFIC; CONSULT PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE TYPE AND TERMINATION AND POWER REQUIREMENTS
ERAR	ELEVATOR REMOTE ACCESS READER	1	6C/22 AWG,CMP, STRANDED, SHIELDED	DEVICE	SYSTEM CONTROL PANEL	TYPICAL 42"-48", VERIFY WITH ARCH	N/A	N/A	LOCATED INSIDE OF ELEVATOR, TO BE INSTALLED AND PROGRAMMED BY ELEVATOR VENDOR. CONSULT ELEVATOR VENDOR FOR SPECIFIC REQUIREMENTS.
TE	TELEPHONE ENTRY SYSTEM STATION	1	CAT6, CMP	DEVICE	110 BLOCK	TYPICAL 48-54", VERIFY WITH ARCH	INSTALL MANUFACTURERS RECOMMENDED BACK BOX WITH 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING. SEE REMARKS.	120VAC / 20A DUPLEX POWER OUTLET. SEE REMARKS	PROVIDE LINEAR AR-500. CONSULT SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE TYPE AND TERMINATION AND POWER REQUIREMENTS
PR	PROXIMITY READER	1	6C/22 AWG,CMP, STRANDED, SHIELDED	DEVICE	SYSTEM CONTROL PANEL	TYPICAL 42"-48", VERIFY WITH ARCH	SINGLE GANG, 3-1/2" DEEP BACK BOX WITH MUD RING, TYPICALLY MOUNTED 8" FROM DOOR FRAME ON HANDLE SIDE WITH 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING.	TYPICALLY POWERED BY SYSTEM CONTROL PANEL POWER SUPPLY. SEE REMARKS.	CARD READER SYSTEM IS VENDOR SPECIFIC; CONSULT PROVIDER FOR SPECIFICATIONS OF PROPOSED SYSTEM FOR CABLE TYPE AND TERMINATION AND POWER REQUIREMENTS
ECB	SINGLE BUTTON EMERGENCY PHONE SYSTEM STATION	1	CAT6, CMP	DEVICE	110 BLOCK	TYPICAL 42"-48", VERIFY WITH ARCH	MOUNTING BOX INCLUDED WITH DEVICE, REQUIRES 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	N/A - POWERED OFF PHONE LINE	PROVIDE TALK A PHONE EC-8 AS NEEDED FOR INSTALLATIONS WITH MORE THAN 1 EMERGENCY STATION.

CCTV SYMBOL LEGEND

SYMBOL	DESCRIPTION	CABLE COUNT	CABLE DESCRIPTION	WORK AREA TERMINATION	CLOSET TERMINATION	STANDARD MOUNTING HEIGHT (AFF)	ELECTRICAL ROUGH-IN	POWER REQUIREMENT	REMARKS
	MINI DOME SINGLE LENS CAMERA - CEILING MOUNTED	1	CAT6, CMP	MALE PLUG CAT6, RJ45	PATCH PANEL, CAT6, RJ45	CEILING HEIGHT	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	NA - TYPICALLY POE POWERED BY CCTV NETWORK SWITCH	SEE CAMERA SCHEDULE, CCTV COMPONENTS LIST AND INSTALLATION DETAILS FOR SPECIFIC REQUIREMENTS OF THE PROPOSED SYSTEM
	MINI DOME SINGLE LENS CAMERA - WALL MOUNTED	1	CAT6, CMP	MALE PLUG CAT6, RJ45	PATCH PANEL, CAT6, RJ45	TYPICAL 120" VERIFY WITH ARCH	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	NA - TYPICALLY POE POWERED BY CCTV NETWORK SWITCH	SEE CAMERA SCHEDULE, CCTV COMPONENTS LIST AND INSTALLATION DETAILS FOR SPECIFIC REQUIREMENTS OF THE PROPOSED SYSTEM
	FIXED BULLET STYLE CAMERA - WALL MOUNTED	1	CAT6, CMP	MALE PLUG CAT6, RJ45	PATCH PANEL, CAT6, RJ45	TYPICAL 120" VERIFY WITH ARCH	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	NA - TYPICALLY POE POWERED BY CCTV NETWORK SWITCH	SEE CAMERA SCHEDULE, CCTV COMPONENTS LIST AND INSTALLATION DETAILS FOR SPECIFIC REQUIREMENTS OF THE PROPOSED SYSTEM
360°	MINI DOME 360° CAMERA - CEILING MOUNTED	1	CAT6, CMP	MALE PLUG CAT6, RJ45	PATCH PANEL, CAT6, RJ45	CEILING HEIGHT	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	NA - TYPICALLY POE POWERED BY CCTV NETWORK SWITCH	SEE CAMERA SCHEDULE, CCTV COMPONENTS LIST AND INSTALLATION DETAILS FOR SPECIFIC REQUIREMENTS OF THE PROPOSED SYSTEM
X L M	CUSTOM CAMERA - SEE CAMERA SCHEDULE X = CAMERA TYPE M= MOUNT TYPE L = LENS TYPE	1	CAT6, CMP	MALE PLUG CAT6, RJ45	PATCH PANEL, CAT6, RJ45	CEILING HEIGHT	4" X 4" BACK BOX WITH 1 GANG MUD RING, 3/4"Ø CONDUIT STUB TO ACCESSIBLE CEILING SPACE	NA - TYPICALLY POE POWERED BY CCTV NETWORK SWITCH	SEE CAMERA SCHEDULE, CCTV COMPONENTS LIST AND INSTALLATION DETAILS FOR SPECIFIC REQUIREMENTS OF THE PROPOSED SYSTEM

LEGEND NOTES

1. SOME ITEMS LISTED IN THE ABOVE TABLE MAY NOT BE INCLUDED IN THIS PROJECT. THE ABOVE ROUGH-IN REQUIREMENTS ARE INTENDED TO SERVE AS REFERENCE INFORMATION ONLY.

2. THIS PART LIST IS INTENDED TO COMMUNICATE DESIGN INTENT. AS PART OF SUBMITTAL PROCESS, INSTALLER MUST SUBMIT A COMPLETE CUT SHEET OF FINAL PRODUCT. THIS MAY CHANGE BASED ON RECOMMENDATION OF OWNERSHIP GROUP.

3. ALL COMPONENTS MOUNTED IN EXTERIOR ENVIRONMENTS SHALL BE IN EXTERIOR WEATHER PROOF RATED ENCLOSURES.

GENERAL NOTES FOR SYMBOL LEGENDS

1. SEE COVER SHEET FOR ADDITIONAL INFORMATION PERTAINING TO BACK BOX AND CONDUIT ROUGH IN REQUIREMENTS FOR SECURITY SYSTEM DEVICES.
2. ADDITIONAL CONDUIT INFORMATION MAY BE NOTED ON THE FLOOR PLANS.
3. OUTLET MOUNTING HEIGHTS MAY BE NOTED ON THE DRAWINGS, VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS.
4. ALL POINT OF SALE TERMINAL AND PRINTER LOCATIONS TO BE CROSS CHECKED AND VERIFIED WITH FOOD SERVICE LAYOUTS.
5. CARD READERS ARE SHOWN ON THESE FLOOR PLANS FOR REFERENCE ONLY TO PROVIDE VISUAL REPRESENTATION OF ACCESS CONTROL LOCATIONS. CARD READER SPECIFICATIONS AND FINAL LOCATIONS SHOULD BE DERIVED FROM THE DOOR HARDWARE SCHEDULE.
6. ALL CROSS CONNECTING OF STATION VOICE CABLES TO RISER CABLES IS PART OF THIS SCOPE OF WORK - TO PROVIDE COMPLETE CONTINUITY OF SIGNAL FROM JACK TO MDF.
7. FURNISHING OF AND INSTALLATION OF ALL AMPS AND TAPS FOR TV SIGNAL DISTRIBUTION SYSTEM IS PART OF THIS SCOPE OF WORK - TO PROVIDE COMPLETE CONTINUITY OF SIGNAL FROM OUTLET TO TV MDF.
8. SEE COVER SHEET FOR ADDITIONAL INFORMATION, NOTES ON ALL SYSTEMS. REVIEW AND VERIFY OTHER PERTINENT DISCIPLINE DRAWINGS (ARCHITECT, I.D., KITCHEN, ELECTRICAL, MECHANICAL, ETC.) AND SUBMIT RFI FOR ANY DISCREPANCIES FOUND WITH RESPECT TO NTI DRAWINGS.
9. NOT ALL SYMBOLS ARE USED ON EVERY PROJECT. REFER TO FLOOR PLANS FOR OUTLET LOCATIONS AND QUANTITIES.

RESPONSIBILITY MATRIX

ELECTRICAL CONTRACTOR TO PROVIDE	CABLING CONTRACTOR TO PROVIDE	SECURITY CONTRACTOR TO PROVIDE
• 4X4 BACK BOXES • 4X4 SINGLE GANG MUD RING • CONDUITS • SLEEVES • PULL STRING • KNOX BOX • POWER SYSTEMS • GROUNDING SYSTEMS • MISCELLANEOUS: LABELS CONDUIT, HAND HOLE, SITE CONDUITS, VERTICAL CONDUIT ETC...AND ANY OTHER RELAYED COMPONENT TO DELIVER A COMPLETE PATHWAY SYSTEM TO THE CLIENT.	• CAT6 CABLES • CAT6 JACKS • FACEPLATE • PATCH PANEL • WALL MOUNT RACK • WIRE MANAGER • COMPRESSION CONNECTOR • FIRE STOPPING • J-HOOK • MISCELLANEOUS: PANELS, CABLE, MOUNTING HARDWARE, SOFTWARE, JACKS, LADDER RACK, ETC...AND ANY OTHER RELAYED COMPONENT TO DELIVER A COMPLETE SYSTEM TO THE CLIENT.	• DOOR CONTACTS (AS NEEDED) • SECURITY SYSTEM • ALL CABLES FOR SECURITY SYSTEM • CCTV CAMERAS • CCTV CAMERAS MOUNTS • SECURITY PoE SWITCHES • TAMPER SWITCH • MISCELLANEOUS: PANELS, CABLE, MOUNTING HARDWARE, SOFTWARE, ETC...AND ANY OTHER RELAYED COMPONENT TO DELIVER COMPLETE SYSTEM TO THE CLIENT. • WEATHERPROOF HOUSING FOR ANY CCTV CAMERA EXPOSED TO WEATHER

NOTE: ULTIMATELY THE GENERAL CONTRACTOR IS RESPONSIBLE TO ENSURE PROPER COORDINATION BETWEEN DISCIPLINES OCCURS TO DELIVER COMPLETE SYSTEM TO THE CLIENT.

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : SYMBOL & LEGEND SHEET - TELECOM

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Project No. : 2018.009

Sheet No. : T001

PATH: N:\2021\21D03629 HOLIDAY INN NANUET\02-DWG\T0-00-T0-02.DWG
PLOT DATE: 4/12/2021 5:13 PM

COPPER COMPONENTS SPECIFICATIONS LIST

DESCRIPTION	MANUFACTURER	PART NUMBER	COMMENTS
CATEGORY 6, 4 PAIR, UTP, CMP, GRAY JACKET	MOHAWK	M57196	
CATEGORY 6, 4 PAIR, UTP, CMP, WHITE JACKET	MOHAWK	M56905	
CATEGORY 6, 4 PAIR, UTP, CMP, BLUE JACKET	MOHAWK	M57193	
CATEGORY 6, 4 PAIR, UTP, CMP, BLACK JACKET	MOHAWK	M57200	
CATEGORY 3, 50 PAIR, UTP, CMP	MOHAWK	M56126	
CATEGORY 3, 100 PAIR, UTP, CMP	MOHAWK	M56128	
CATEGORY 3, 200 PAIR, UTP, CMP	MOHAWK	M56129	
CATEGORY 6, 4 PAIR, OUTDOOR RATED	UNIPRISE	6NF4	OUTDOOR RATED CABLE FOR FLOOR BOXES IN BALLROOM
RJ-45, CAT 6, 8 POSITION, T568B, DATA JACK INSERT	HUBBELL	HXJ6**	* DENOTES COLOR
FACEPLATE, SINGLE GANG	HUBBELL	IFP1#**	# DENOTES NUMBER OF PORTS, * DENOTED COLOR
BLANK INSERTS	HUBBELL	SFB**	* DENOTES COLOR
WALL PHONE STYLE - FACEPLATE WITH JACK	HUBBELL	P630SR1GC6	USED FOR ALL WALL PHONES (HOUSE AND PUBLIC) AT 48"AFF OR AS NOTED
WEATHERPROOF ENCLOSURE FOR OUTDOOR MOUNTED PHONES	GAI-TRONICS	MODEL 255	
24 PORT CATEGORY 6, PATCH PANEL, 568B	HUBBELL	P6E24U	
48 PORT CATEGORY 6, PATCH PANEL, 568B	HUBBELL	P6E48U	
66 BLOCK - 50 PAIR	HUBBELL	HPW66M150	
300 PAIR 110 WALL MOUNT KITS WITH FRAME	HUBBELL	110WMK	
110 WALL MOUNT CABLE MANAGEMENT FRAME	HUBBELL	188BB	
100 PAIR 110 XC BLOCKS WITH MOUNTING LEGS	HUBBELL	110BLK100FTK4	
300 PAIR 110 XC BLOCKS WITH MOUNTING LEGS	HUBBELL	110BLK300FTK4	
110 BLOCK CABLE MANAGEMENT TROUGHS	HUBBELL	110TRA	
100 PAIR 110 BLOCKS-RACK MOUNT KIT	HUBBELL	110RM14	
200 PAIR 110 BLOCKS-RACK MOUNT KIT	HUBBELL	110RM24	

FIBER OPTIC COMPONENTS SPECIFICATIONS LIST

DESCRIPTION	MANUFACTURER	PART NUMBER	COMMENTS
6 STRAND 50/125 MM FIBER, OFNP-ADVANCELITE 1000	MOHAWK	M9C045	
12 STRAND 50/125 MM FIBER, OFNP-ADVANCELITE 1000	MOHAWK	M9C048	
6 STRAND SINGLE-MODE FIBER, OFNP-ENHANCED	MOHAWK	M9W045	
12 STRAND SINGLE-MODE FIBER, OFNP-ENHANCED	MOHAWK	M9W048	
ARMORLITE 6 STRAND 50/125 MM FIBER, OFNP-ADVANCELITE 1000	MOHAWK	M9C230	
ARMORLITE 12 STRAND 50/125 MM FIBER, OFNP-ADVANCELITE 1000	MOHAWK	M9C231	
ARMORLITE 6 STRAND SINGLE-MODE FIBER, OFNP-ENHANCED	MOHAWK	M9W230	
ARMORLITE 12 STRAND SINGLE-MODE FIBER, OFNP-ENHANCED	MOHAWK	M9W231	
SC SIMPLEX KEYSTONE ADAPTER INSERT	HUBBELL	SFSC*	FOR MULTI-MODE FIBER, * DENOTES COLOR
SC SIMPLEX KEYSTONE ADAPTER INSERT	HUBBELL	SFSCS*	FOR SINGLE-MODE FIBER, * DENOTES COLOR
FACEPLATE, SINGLE GANG	HUBBELL	IFP1#**	# DENOTES NUMBER OF PORTS, * DENOTED COLOR
BLANK INSERTS	HUBBELL	SFB**	* DENOTES COLOR
WIC BOX WALL MOUNT CABINET, DOUBLE DOOR W/LOCK	HUBBELL	FCW4SP	
12 PORT RACK MOUNT FIBER ENCLOSURE-LOADED-SC	HUBBELL	FPRO12SCM	
12 PORT RACK MOUNT FIBER ENCLOSURE-LOADED-ST	HUBBELL	FPRO12STM	
24 PORT RACK MOUNT FIBER ENCLOSURE-LOADED-SC	HUBBELL	FPRO24SCM	
24 PORT RACK MOUNT FIBER ENCLOSURE-LOADED-ST	HUBBELL	FPRO24STM	
72-144 P0RT RACK MOUNT FIBER ENCLOSURE-UNLOADED	HUBBELL	FCR350SP(##)R	
FSP FIBER ADAPTER PANEL - 6-STRAND SC PANEL	HUBBELL	FSPSCDM3AQ	FOR MULTI-MODE FIBER
FSP FIBER ADAPTER PANEL - 12-STRAND SC PANEL	HUBBELL	FSPSCDM6AQ	FOR MULTI-MODE FIBER
FSP FIBER ADAPTER PANEL - 6-STRAND SC PANEL	HUBBELL	FSPSCDS3Y	FOR SINGLE-MODE FIBER
FSP FIBER ADAPTER PANEL - 12-STRAND SC PANEL	HUBBELL	FSPSCDS6Y	FOR SINGLE-MODE FIBER
VELCRO TIE WRAPS	HUBBELL	HPWCVF(XX)8	

EQUIPMENT ROOM COMPONENTS SPECIFICATIONS LIST

DESCRIPTION	MANUFACTURER	PART NUMBER	COMMENTS
RACK MOUNT DOUBLE SIDED HORIZONTAL CABLE MANAGER - 1RMU	CPI	30529-719	
RACK MOUNT DOUBLE SIDED HORIZONTAL CABLE MANAGER - 2RMU	CPI	30530-719	
VERTICAL CABLE MANAGER FOR FLOOR RACK	CPI	30095-703	
VERTICAL POWER OUTLET STRIP (INLET PLUG NEMA 5L-20P)	CPI	12581-708	(1) PER 7' FLOOR RACK
VELCRO TIE WRAPS	HUBBELL	HPWCVF(XX)8	
HUB SHELF OR BACKBOARD MOUNTED SHELF	CPI	40074-700	
STANDARD FLOOR MOUNTED EQUIPMENT RACK - 45RMU	CPI	55053-703	
CPU/MONITOR SHELF WITH KEYBOARD & MOUSE TRAY	CPI	12487-723	
STANDARD 4-PORT RACK - 7'Hx19"Wx29"D - 45RMU	CPI	50120-703	
WALL MOUNTED EQUIPMENT CABINET - 48'Hx19"Wx29"D - 26RMU	CPI	40074-700	
WALL MOUNTED EQUIPMENT CABINET - 36'Hx19"Wx29"D - 18RMU	CPI	40074-700	
100 CFM FAN KIT	CPI	12804-701	(1) PER CABINET
HORIZONTAL POWER OUTLET STRIP	CPI	12816-707	(1) PER CABINET OR SWING FRAME
WALL MOUNTED SWING FRAME RACK - 49'Hx19"Wx25"D - 27RMU	CPI	11807-725	
WALL MOUNTED SWING FRAME RACK - 38'Hx19"Wx25"D - 21RMU	CPI	11791-725	
12" WIDE LADDER RACK	CPI	10250-712	
18" WIDE LADDER RACK	CPI	10250-718	
24" M.E.2 WIRE CABLE TRAY	WIREMAID	05-2-24410	OR APPROVED EQUIVALENT
36" M.E.2 WIRE CABLE TRAY	WIREMAID	05-2-36410	
8" SOLID BOTTOM PLATE	WIREMAID	05-2-08BP	
12" SOLID BOTTOM PLATE	WIREMAID	05-2-12BP	
18" SOLID BOTTOM PLATE	WIREMAID	05-2-18BP	
24" SOLID BOTTOM PLATE	WIREMAID	05-2-24BP	
36" SOLID BOTTOM PLATE	WIREMAID	05-2-36BP	
2" HIGH TRAY DIVIDER	WIREMAID	05-2-500983	
4" HIGH TRAY DIVIDER	WIREMAID	05-2-500984	
FIRESTOP SYSTEM FOR SLOTS AND LARGE WALL PENETRATIONS	SPECIFIED TECHNOLOGIES, INC.	C-AJ-8093	OR APPROVED EQUIVALENT

MATV RECOMMENDED COMPONENT SCHEDULE

DESCRIPTION	MANUFACTURER	PART NUMBER	COMMENTS
SPLITTERS			
2 Way 1 GHz Drop Splitter	TONER CABLE EQUIPMENT, INC.	XGVS -2	GREATER THAN 120dB RFI INTEGRITY
4 Way 1 GHz Drop Splitter	TONER CABLE EQUIPMENT, INC.	XGVS -4	GREATER THAN 120dB RFI INTEGRITY
6 Way 1 GHz Drop Splitter	TONER CABLE EQUIPMENT, INC.	XGVS -6	GREATER THAN 120dB RFI INTEGRITY
8 Way 1 GHz Drop Splitter	TONER CABLE EQUIPMENT, INC.	XGVS -8	GREATER THAN 120dB RFI INTEGRITY
2 WAY 1-GHZ VERTICAL SPLITTER - SOLDER BACK	PICO MACOM	TSV-2SB	GREATER THAN 130dB RFI INTEGRITY
4 WAY 1-GHZ VERTICAL SPLITTER - SOLDER BACK	PICO MACOM	TSV-4SB	GREATER THAN 130dB RFI INTEGRITY
6 WAY 1-GHZ VERTICAL SPLITTER - SOLDER BACK	PICO MACOM	TSV-6SB	GREATER THAN 130dB RFI INTEGRITY
8 WAY 1-GHZ VERTICAL SPLITTER - SOLDER BACK	PICO MACOM	TSV-8SB	GREATER THAN 130dB RFI INTEGRITY
TAPS - DIRECTIONAL COUPLERS			
1-PORT DIRECTIONAL COUPLER, 5-1,000 MHz - SOLDER BACK	PICO MACOM	TCS-(*)-SB	(*) DENOTES TAP VALUE - 6, 9, 12, 16, 20, 24, 27, 30 dB
1-PORT DIRECTIONAL COUPLER, 5-1,000 MHz - WALL PLATE	PICO MACOM	TSCW-(*)-SB	
2-PORT DIRECTIONAL COUPLER, 5-1,000 MHz - SOLDER BACK	PICO MACOM	TSC2-(*)-SB	
4-PORT DIRECTIONAL COUPLER, 5-1,000 MHz - SOLDER BACK	PICO MACOM	TSC4-(*)-SB	
2-PORT TAP, 5-1,000 MHz	TONER CABLE EQUIPMENT, INC.	TGT2-(*)	(*) DENOTES TAP VALUE - 4T, 8, 11, 14, 17, 20, 23, 26, 29, 32 dB
4-PORT TAP, 5-1,000 MHz	TONER CABLE EQUIPMENT, INC.	TGT4-(*)	
AMPLIFIERS AND ACCESSORIES			
BROADBAND INDOOR DISTRIBUTION AMPLIFIERS, 750 MHz, 30 dB GAIN	BLONDER TONGUE	BIDA 75A-30P	POWER DOUBLING
BROADBAND INDOOR DISTRIBUTION AMPLIFIERS, 860 MHz, 30 dB GAIN	BLONDER TONGUE	BIDA 86A-30P	
BROADBAND INDOOR DISTRIBUTION AMPLIFIERS, 750 MHz, 43 dB GAIN	BLONDER TONGUE	BIDA 75A-43P	
BROADBAND INDOOR DISTRIBUTION AMPLIFIERS, 860 MHz, 43 dB GAIN	BLONDER TONGUE	BIDA 86A-43P	
FIXED ATTENUATORS (PADS) 1-20 dB IN 1 dB STEP	BLONDER TONGUE	BIDA FA	STOCK NUMBER 5411A SPECIFY VALUE 3, 6, 9, 12, 18 dB
CABLE EQUALIZERS	BLONDER TONGUE	BIDA CE	STOCK NUMBER 5477 SPECIFY VALUE 3, 6, 9, 12, 18 dB
CONNECTORS			
SERIES 6 COMPRESSION CONNECTOR	PCT INTERNATIONAL	PCT-TRS-6(*)	(*) P=PLENUM, LRA=RIGHT ANGLE
SERIES 11 COMPRESSION CONNECTOR	PCT INTERNATIONAL	PCT-DRS-11(*)	
COAXIAL CABLES			
RG-6, 18 AWG, PLENUM, DUOFOIL & 95% TC BRAID COVERAGE	BELDEN	89120	CATVP, CMP RATING
RG-11, 14 AWG, PLENUM, DUOFOIL & 63% TC BRAID COVERAGE	BELDEN	89292	

MATV SYSTEM NOTES

1. SOME OF THE ABOVE LISTED PRODUCTS MAY NOT BE REQUIRED FOR THIS PROJECT. CABLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PRODUCTS, AS REQUIRED, TO FURNISH OWNER WITH COMPLETE SYSTEM.
2. IT IS THE RESPONSIBILITY OF THE CABLING CONTRACTOR TO COORDINATE WITH THE OWNER AND MATV VENDOR PRIOR TO INSTALLING CABLE, TAPS ETC. TO DETERMINE WITCH SYSTEM SHALL BE USED.

FOR ALL COMPONENTS SPECIFICATIONS LIST NOTES

1. CONTRACTOR TO VERIFY WITH LOCAL CODES REQUIREMENTS FOR USE OF LC "LOW COMBUSTIBLE" CABLING IF REQUIRED BY LOCAL CODES, CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING IN ALL PLENUM RATED SPACE.
2. SOME OF THE ABOVE LISTED PRODUCTS MAY NOT BE REQUIRED FOR THIS PROJECT. CABLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PRODUCTS, AS REQUIRED, TO FURNISH OWNER WITH COMPLETE SYSTEM.
3. AS MANUFACTURERS PART NUMBERS CAN CHANGE, CONTRACTOR IS RESPONSIBLE FOR VERIFYING CORRECT, CURRENT PART NUMBERS FOR PRODUCTS SPECIFIED.
4. BIDDERS MUST SUBMIT CUT SHEET TO NTI FOR REVIEW/APPROVAL FOR ALL PROPOSED PRODUCTS.
5. ALTERNATE MANUFACTURES MAY BE USED. ALTERNATE PRODUCTS MUST BE EQUIVALENT OR BETTER WITH REGARD TO PERFORMANCE, FORM, FIT & FUNCTION.

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW 11.10.20
65% ARCH REVIEW 11.14.20
70% OWNER REV. 01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : SPECIFICATION SHEET - TELECOM

Project No. : 2018.009

Sheet No. : T002

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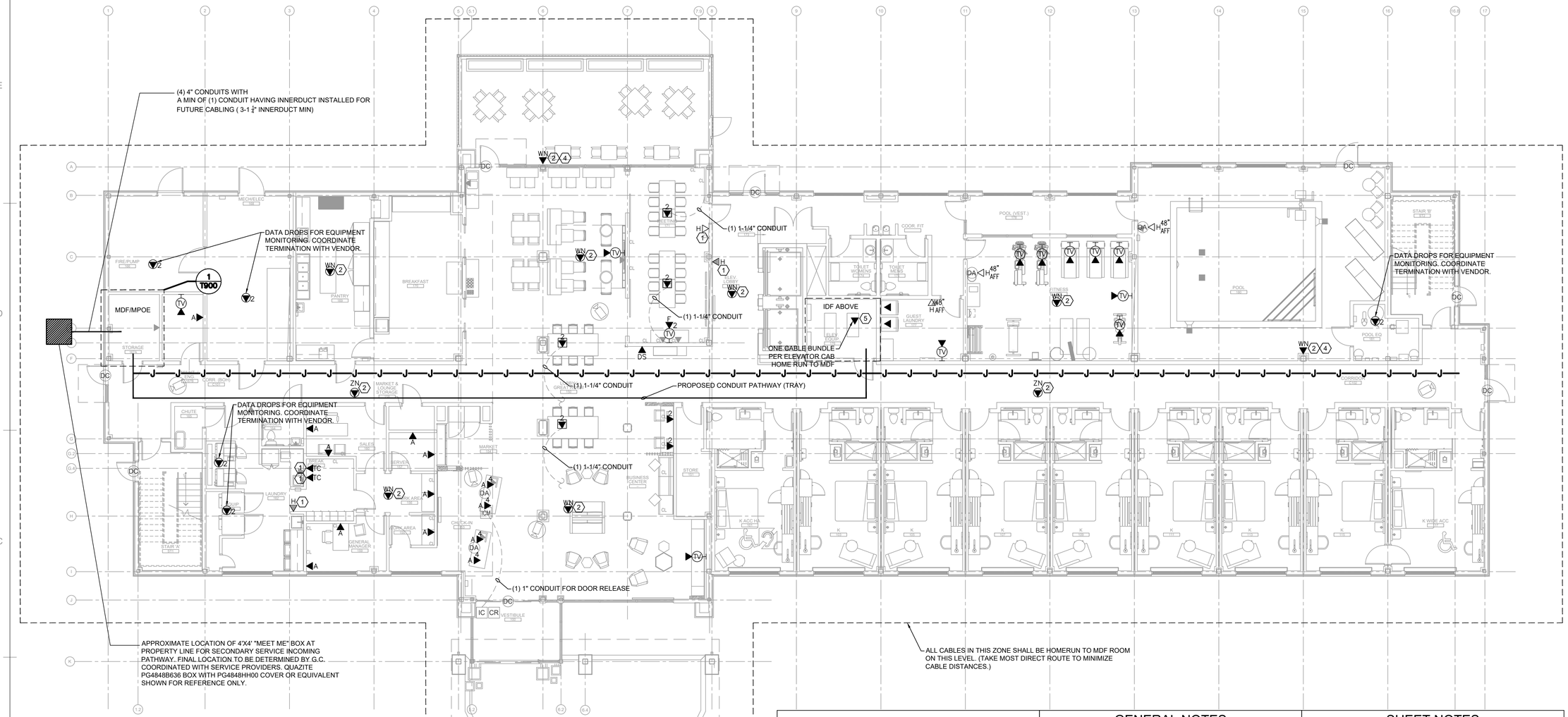

OVERALL FIRST FLOOR PLAN - TELECOM

SCALE: 1/8" = 1'-0"

KEYNOTE LEGEND

1. COORDINATE OUTLET LOCATION/HEIGHT WITH ID DRAWINGS.
2. WIRELESS NODES SHALL HAVE A 25' SERVICE LOOP AND SHALL BE MOUNTED WITHIN REACH OF ACCESSIBLE CEILING SPACE OR BEHIND ACCESS PANEL. SEE DETAIL SHEET FOR PROPOSED ACCESS PANEL.
3. (1) 2" CONDUIT TO WALL AND TO ACCESSIBLE CEILING SPACE CONTIGUOUS TO DESTINATION CLOSET. COORDINATE WITH ELECTRICAL DRAWINGS.
4. EQUIPMENT SHOULD BE WEATHERPROOF FOR OUTDOOR USE.
5. (1) CAT-6 4 PR. CABLE (TELEPHONE/DATA).
   (1) RG-6 COAX(MATV/CATV),
   (1) 22/ 6 CONDUCTOR SHIELDED (CARD READER).
   (1) RG-59 COAX. (CCTV)
   COORDINATE TERMINATION IN EMR WITH ELEVATOR VENDOR. CAB DISPLAY VENDOR TO INSTALL ETHERNET CONVERTERS IN EMR TO MAKE CONNECTION BETWEEN TRAVEL CABLE AND CAT-6 CABLE. PROVIDE ADD ALTERNATE PRICE FOR INSTALLATION OF CE ELECTRONICS ELBNK-BMX (VERIFY PART NUMBER WITH CE ELECTRONICS).

GENERAL NOTES

1. ALL MATV CABLE RUNS THAT EXCEED 150' SHALL BE RUN WITH RG-11 CABLE. CONTRACTOR TO FIELD VERIFY FINAL CABLE RUN LENGTH.
2. ALL MATV CABLE SHALL BE TERMINATED WITH COMPRESSION-TYPE CONNECTORS.
3. ALL DATA OUTLETS EXCEPT WIRELESS NODES REQUIRE POWER OUTLET IN CLOSE PROXIMITY. (WITHIN ONE STUD CAVITY).
4. NO DRILLING, CORING OR "SHOOTING" OF FASTENERS INTO SLAB ALLOWED WITHOUT PRIOR WRITTEN CONSENT FROM STRUCTURAL ENGINEER.
5. ALL CONDUITS SHALL CONTAIN PULL STRINGS.
6. PROPOSED CABLING PATHWAY FOR RESIDENT OUTLET CABLES. ROUTE THROUGH ACCESSIBLE CEILING SPACE IN CORRIDOR OR IN DROP AREA ABOVE ENTRY/CLOSET. SLEEVE AND FIRESTOP ALL DEMISING WALLS WITH 2" SLEEVES. MAX. 40% FILL RATIO. PROVIDE SEPARATE SLEEVES FOR TV CABLES. SUPPORT CABLES WITH J-HOOKS (EVERY 4-5')SECURED TO STRUCTURE ABOVE. VERIFY WITH G.C. AND STRUCTURAL ENGINEER PRIOR TO SHOOTING OF FASTENERS INTO SLAB.

SHEET NOTES

1. GENERAL CONTRACTOR TO STUB 3/4"Ø CONDUIT WITH PULL STRING FROM 4"x4" OUTLET BOX WITH SINGLE GANG MUD RING TO ACCESSIBLE CEILING SPACE CONTIGUOUS TO DESTINATION ROOM FROM ALL TV AND COMMUNICATIONS/DATA OUTLETS, UNLESS OTHERWISE NOTED.
2. ALL COMMUNICATION & TV OUTLETS (EXCEPT WIRELESS NODES & ANALOG HOUSE PHONES) REQUIRE 120 VAC, DUPLEX RECEPTACLE TO BE INSTALLED BESIDE THE COMMUNICATIONS/TV OUTLET.
3. VERIFY FINAL BACKBONE CONDUIT ROUTES WITH ELECTRICAL AND ARCHITECTURAL DRAWINGS.
4. INSTALL PULLSTRINGS IN ALL CONDUITS.
5. LABEL ALL CONDUIT ENDS WITH DESTINATION.
6. ALL CCTV CAMERAS REQUIRE SINGLE GANG BACK BOX AND 3/4"Ø CONDUIT TO SECURITY HEADEND (OR TO ACCESSIBLE CEILING SPACE CONTIGUOUS TO SECURITY HEADEND).
7. COORDINATE ALL DEVICE LOCATIONS WITH ID DETAILS AND ELEVATIONS.
8. ROUTE CABLES ALONG SHORTEST ROUTE. ENSURE OVERALL CABLE LENGTH DOES NOT EXCEED 295 FEET.
9. COORDINATE ALL POS LOCATIONS WITH FOOD SERVICE DRAWINGS.
10. PROVIDE DATA DROP AT TRASH DUMPSTER AND WALK IN COOLERS

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NTI JOB NO. 21DO3090

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
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PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : OVERALL FIRST FLOOR PLAN - TELECOM

Project No. : 2018.009

Sheet No. : T110

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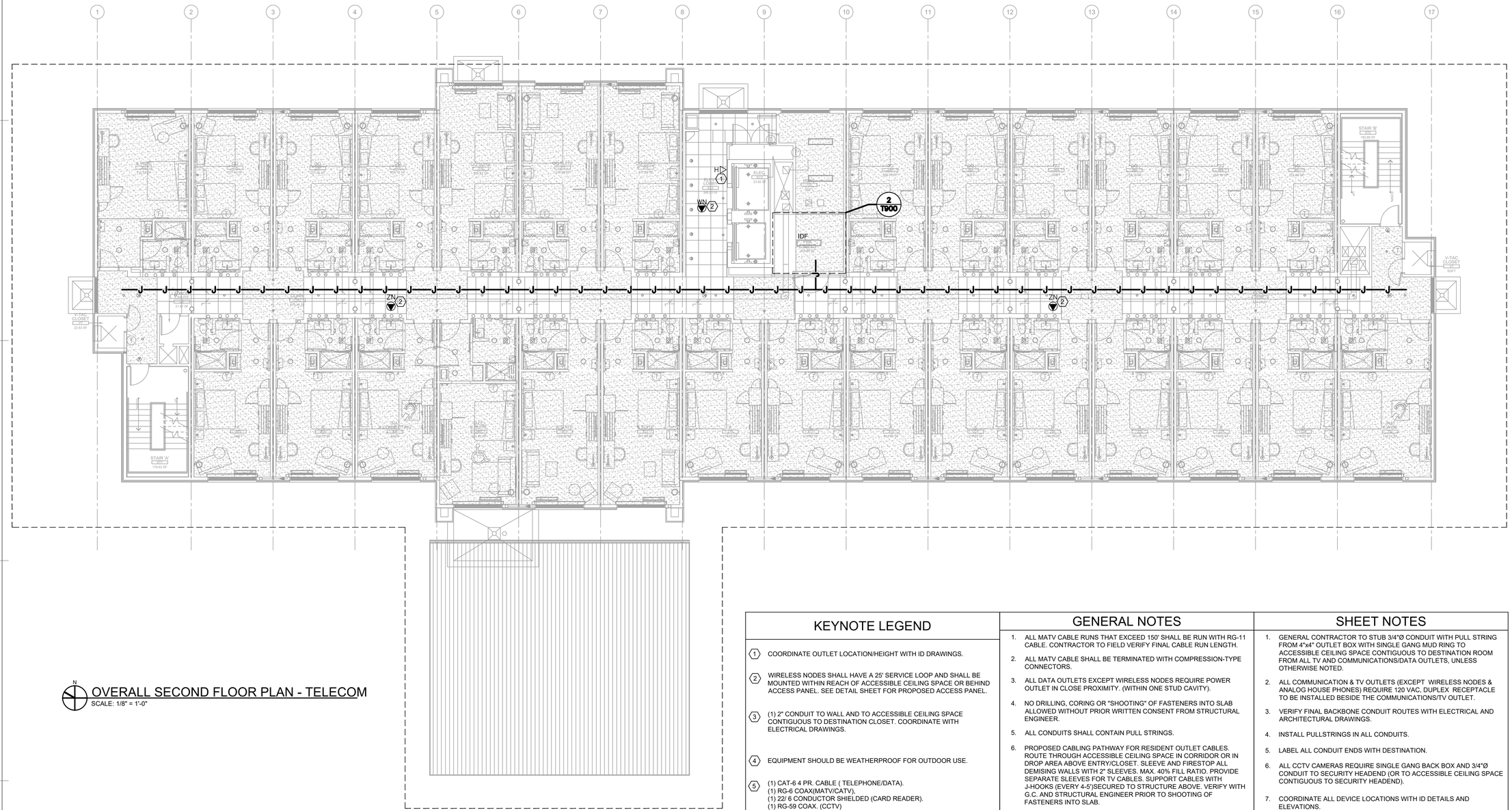

OVERALL SECOND FLOOR PLAN - TELECOM

SCALE: 1/8" = 1'-0"

KEYNOTE LEGEND

1. COORDINATE OUTLET LOCATION/HEIGHT WITH ID DRAWINGS.
2. WIRELESS NODES SHALL HAVE A 25' SERVICE LOOP AND SHALL BE MOUNTED WITHIN REACH OF ACCESSIBLE CEILING SPACE OR BEHIND ACCESS PANEL. SEE DETAIL SHEET FOR PROPOSED ACCESS PANEL.
3. (1) 2" CONDUIT TO WALL AND TO ACCESSIBLE CEILING SPACE CONTIGUOUS TO DESTINATION CLOSET. COORDINATE WITH ELECTRICAL DRAWINGS.
4. EQUIPMENT SHOULD BE WEATHERPROOF FOR OUTDOOR USE.
5. (1) CAT-6 4 PR. CABLE (TELEPHONE/DATA).
   (1) RG-6 COAX(MATV/CATV),
   (1) 22/ 6 CONDUCTOR SHIELDED (CARD READER).
   (1) RG-59 COAX. (CCTV)
   COORDINATE TERMINATION IN EMR WITH ELEVATOR VENDOR. CAB DISPLAY VENDOR TO INSTALL ETHERNET CONVERTERS IN EMR TO MAKE CONNECTION BETWEEN TRAVEL CABLE AND CAT-6 CABLE. PROVIDE ADD ALTERNATE PRICE FOR INSTALLATION OF CE ELECTRONICS ELBNK-BMX (VERIFY PART NUMBER WITH CE ELECTRONICS).

GENERAL NOTES

1. ALL MATV CABLE RUNS THAT EXCEED 150' SHALL BE RUN WITH RG-11 CABLE. CONTRACTOR TO FIELD VERIFY FINAL CABLE RUN LENGTH.
2. ALL MATV CABLE SHALL BE TERMINATED WITH COMPRESSION-TYPE CONNECTORS.
3. ALL DATA OUTLETS EXCEPT WIRELESS NODES REQUIRE POWER OUTLET IN CLOSE PROXIMITY. (WITHIN ONE STUD CAVITY).
4. NO DRILLING, CORING OR "SHOOTING" OF FASTENERS INTO SLAB ALLOWED WITHOUT PRIOR WRITTEN CONSENT FROM STRUCTURAL ENGINEER.
5. ALL CONDUITS SHALL CONTAIN PULL STRINGS.
6. PROPOSED CABLING PATHWAY FOR RESIDENT OUTLET CABLES. ROUTE THROUGH ACCESSIBLE CEILING SPACE IN CORRIDOR OR IN DROP AREA ABOVE ENTRY/CLOSET. SLEEVE AND FIRESTOP ALL DEMISING WALLS WITH 2" SLEEVES. MAX. 40% FILL RATIO. PROVIDE SEPARATE SLEEVES FOR TV CABLES. SUPPORT CABLES WITH J-HOOKS (EVERY 4-5')SECURED TO STRUCTURE ABOVE. VERIFY WITH G.C. AND STRUCTURAL ENGINEER PRIOR TO SHOOTING OF FASTENERS INTO SLAB.

SHEET NOTES

1. GENERAL CONTRACTOR TO STUB 3/4"Ø CONDUIT WITH PULL STRING FROM 4"x4" OUTLET BOX WITH SINGLE GANG MUD RING TO ACCESSIBLE CEILING SPACE CONTIGUOUS TO DESTINATION ROOM FROM ALL TV AND COMMUNICATIONS/DATA OUTLETS, UNLESS OTHERWISE NOTED.
2. ALL COMMUNICATION & TV OUTLETS (EXCEPT WIRELESS NODES & ANALOG HOUSE PHONES) REQUIRE 120 VAC, DUPLEX RECEPTACLE TO BE INSTALLED BESIDE THE COMMUNICATIONS/TV OUTLET.
3. VERIFY FINAL BACKBONE CONDUIT ROUTES WITH ELECTRICAL AND ARCHITECTURAL DRAWINGS.
4. INSTALL PULLSTRINGS IN ALL CONDUITS.
5. LABEL ALL CONDUIT ENDS WITH DESTINATION.
6. ALL CCTV CAMERAS REQUIRE SINGLE GANG BACK BOX AND 3/4"Ø CONDUIT TO SECURITY HEADEND (OR TO ACCESSIBLE CEILING SPACE CONTIGUOUS TO SECURITY HEADEND).
7. COORDINATE ALL DEVICE LOCATIONS WITH ID DETAILS AND ELEVATIONS.
8. ROUTE CABLES ALONG SHORTEST ROUTE. ENSURE OVERALL CABLE LENGTH DOES NOT EXCEED 295 FEET.
9. COORDINATE ALL POS LOCATIONS WITH FOOD SERVICE DRAWINGS.
10. PROVIDE DATA DROP AT TRASH DUMPSTER AND WALK IN COOLERS

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NTI JOB NO. 21DO3090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : OVERALL SECOND FLOOR PLAN - TELECOM

Project No. : 2018.009

Sheet No. : T120

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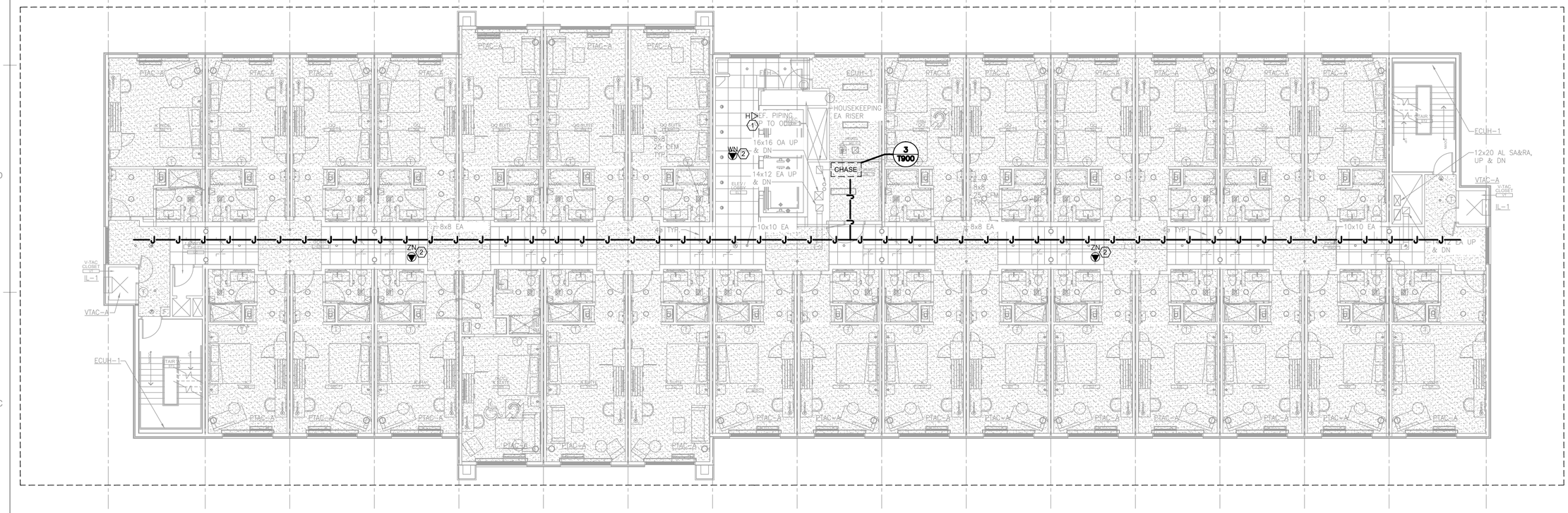

OVERALL THIRD FLOOR PLAN - TELECOM

SCALE: 1/8" = 1'-0"

KEYNOTE LEGEND

1. COORDINATE OUTLET LOCATION/HEIGHT WITH ID DRAWINGS.
2. WIRELESS NODES SHALL HAVE A 25' SERVICE LOOP AND SHALL BE MOUNTED WITHIN REACH OF ACCESSIBLE CEILING SPACE OR BEHIND ACCESS PANEL. SEE DETAIL SHEET FOR PROPOSED ACCESS PANEL.
3. (1) 2" CONDUIT TO WALL AND TO ACCESSIBLE CEILING SPACE CONTIGUOUS TO DESTINATION CLOSET. COORDINATE WITH ELECTRICAL DRAWINGS.
4. EQUIPMENT SHOULD BE WEATHERPROOF FOR OUTDOOR USE.
5. (1) CAT-6 4 PR. CABLE (TELEPHONE/DATA).
   (1) RG-6 COAX(MATV/CATV),
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   (1) RG-59 COAX. (CCTV)
   COORDINATE TERMINATION IN EMR WITH ELEVATOR VENDOR. CAB DISPLAY VENDOR TO INSTALL ETHERNET CONVERTERS IN EMR TO MAKE CONNECTION BETWEEN TRAVEL CABLE AND CAT-6 CABLE. PROVIDE ADD ALTERNATE PRICE FOR INSTALLATION OF CE ELECTRONICS ELBNK-BMX (VERIFY PART NUMBER WITH CE ELECTRONICS).

GENERAL NOTES

1. ALL MATV CABLE RUNS THAT EXCEED 150' SHALL BE RUN WITH RG-11 CABLE. CONTRACTOR TO FIELD VERIFY FINAL CABLE RUN LENGTH.
2. ALL MATV CABLE SHALL BE TERMINATED WITH COMPRESSION-TYPE CONNECTORS.
3. ALL DATA OUTLETS EXCEPT WIRELESS NODES REQUIRE POWER OUTLET IN CLOSE PROXIMITY. (WITHIN ONE STUD CAVITY).
4. NO DRILLING, CORING OR "SHOOTING" OF FASTENERS INTO SLAB ALLOWED WITHOUT PRIOR WRITTEN CONSENT FROM STRUCTURAL ENGINEER.
5. ALL CONDUITS SHALL CONTAIN PULL STRINGS.
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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : OVERALL THIRD FLOOR PLAN - TELECOM

Project No. : 2018.009

Sheet No. : T130

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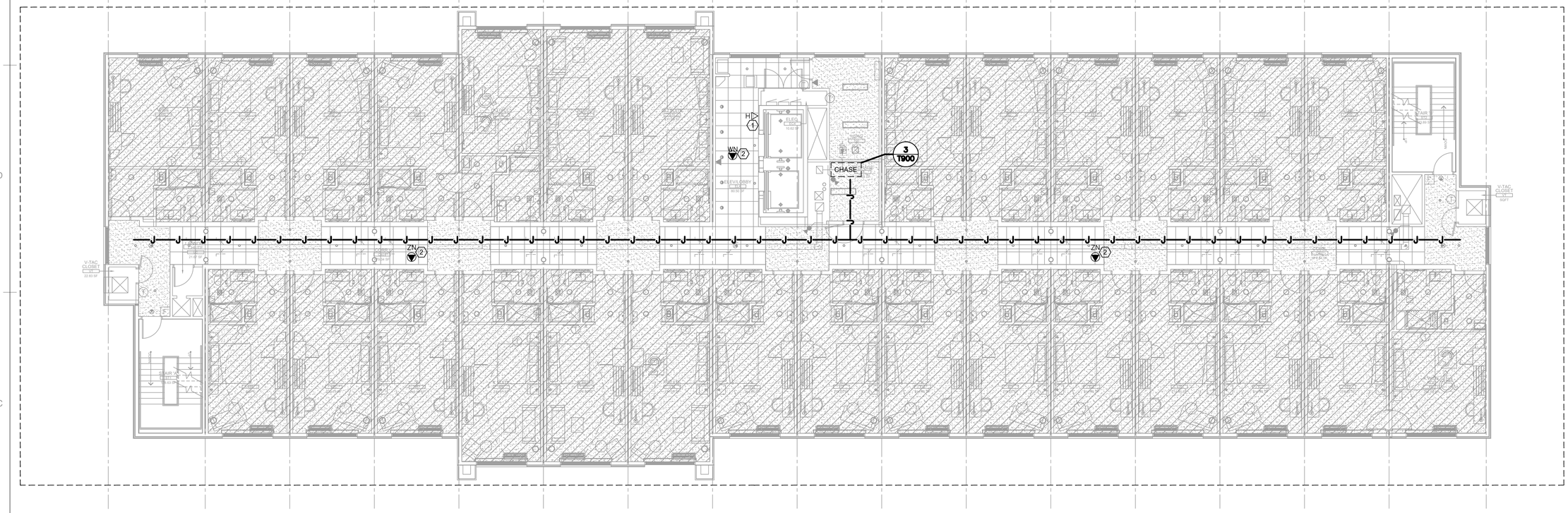

OVERALL FOURTH FLOOR PLAN - TELECOM

SCALE: 1/8" = 1'-0"

KEYNOTE LEGEND

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : OVERALL FOURTH FLOOR PLAN - TELECOM

Project No. : 2018.009

Sheet No. : T140

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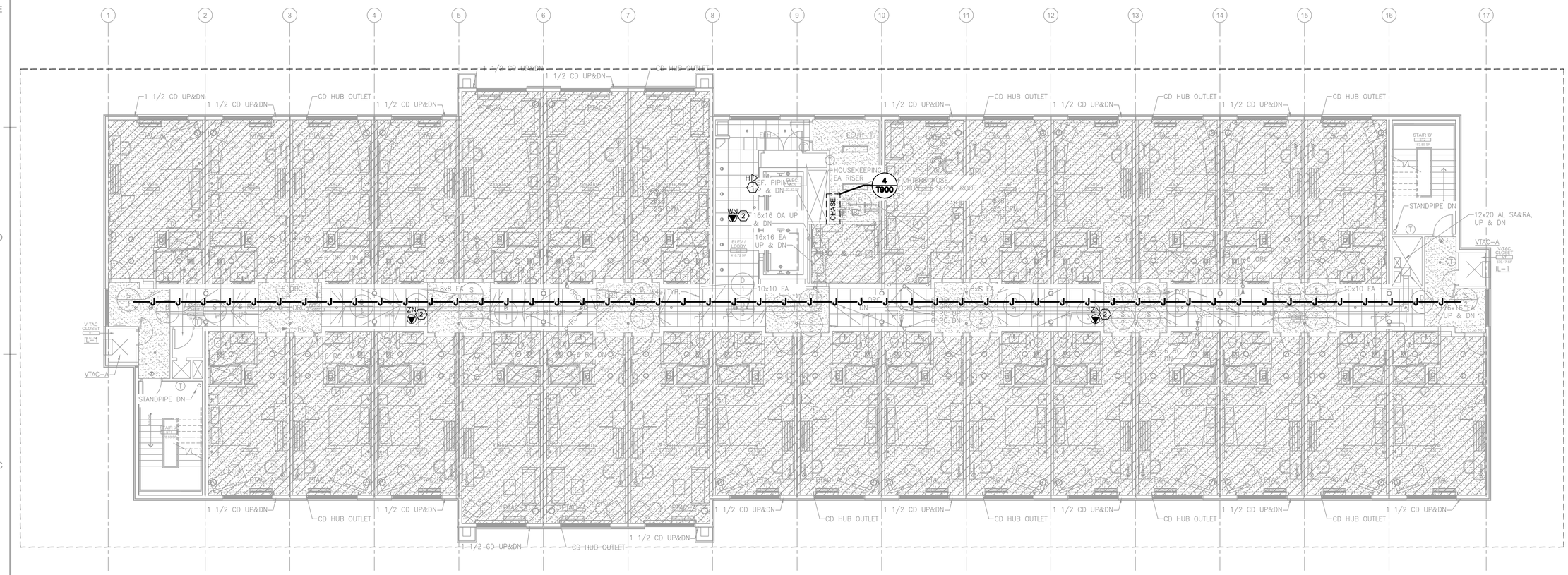

OVERALL FIFTH FLOOR PLAN - TELECOM

SCALE: 1/8" = 1'-0"

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NTI JOB NO. 21D03090

Project :

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PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : OVERALL FIFTH FLOOR PLAN - TELECOM

Project No. : 2018.009

Sheet No. : T150

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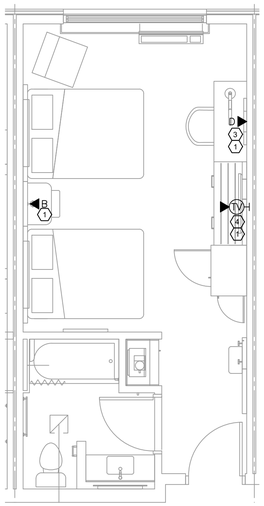
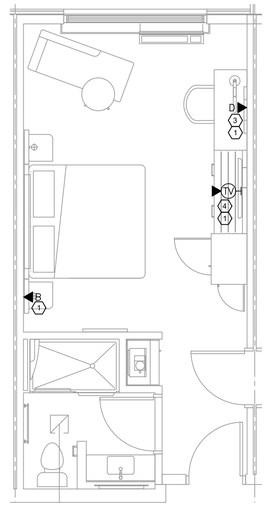
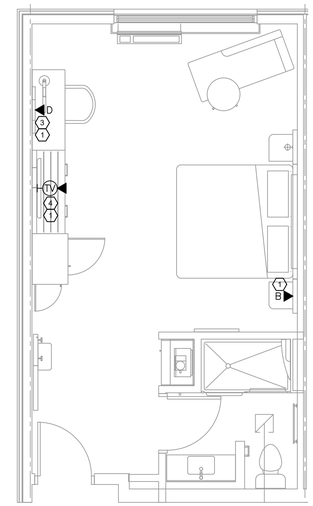


1 DOUBLE QUEEN
1/4" = 1'-0"



2 KING
1/4" = 1'-0"



3 KING WIDE
1/4" = 1'-0"

DESIGN ASSUMPTIONS

B VOICE: ASSUMED VOIP

D ASSUMED DATA

TV: ASSUMED RF WITH DATA (QUOTE COAX AS DEDUCT ALTERNATE)

GENERAL NOTES

1. VERIFY ALL FINAL OUTLET LOCATIONS AND QUANTITIES WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS..
2. REFER TO CONDUIT RISER DIAGRAM FOR GUESTROOM CONDUIT REQUIREMENTS.
3. ALL CABLES HOMERUN TO NEMA BOX IN LAUNDRY AREA. SEE CORRESPONDING OVERALL FLOOR PLANS AND/OR CABLING RISER DIAGRAM FOR ZONING INFORMATION.

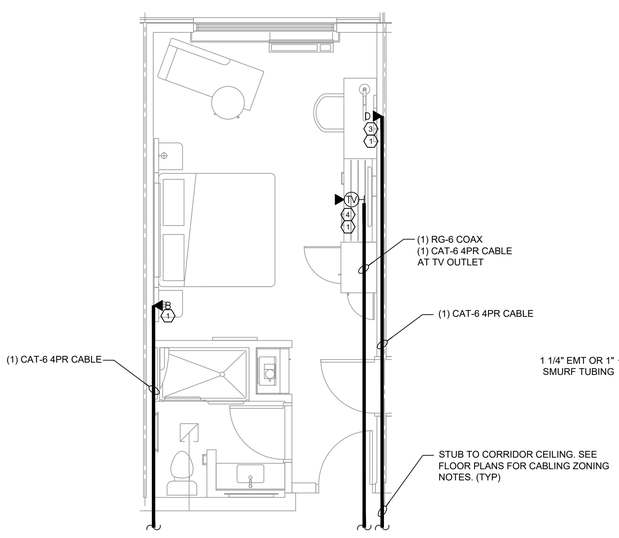
KEYNOTE LEGEND

1

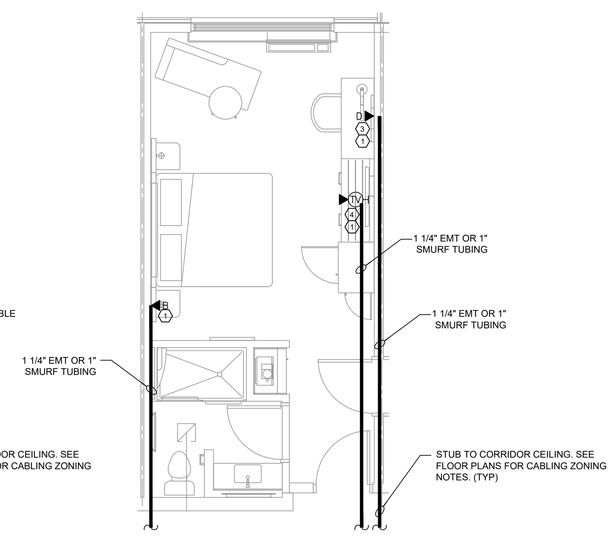
2 48" NEMA (SMARTBOX) LOCATED IN STUD CAVITY.

3 QUOTE DESK DROP AS ADD ALTERNATE

4 LOCATION FOR IN-ROOM WAP (RUCKUS OR EQUIVALENT)



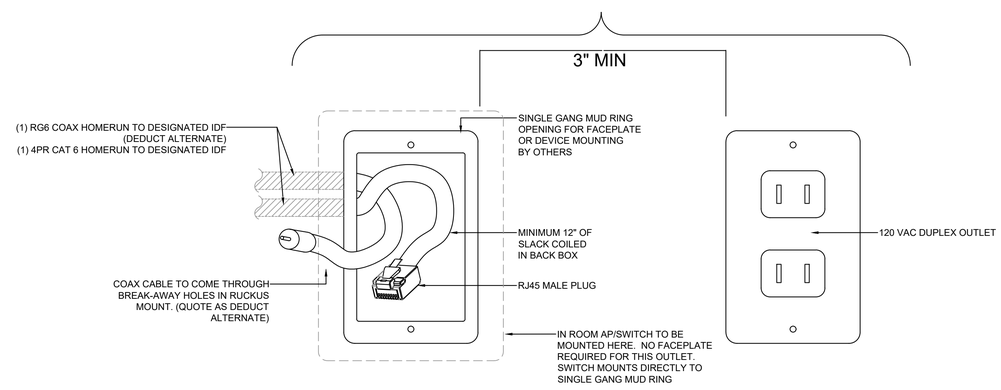
DEPICTING BASE-SCOPE CABLING



DEPICTING CONDUIT PATHWAYS

4 TYPICAL RESIDENCE BASE SCOPE CABLING AND CONDUIT PATHWAYS
1/4" = 1'-0"

THESE FACEPLATES LOCATED BEHIND TV.



5 FACEPLATE DETAILS
1/4" = 1'-0"

NOTE: FOR IN-ROOM WIRELESS ACCESS POINT INSTALLATION, HSIA VENDOR TO DETERMINE FINAL LOCATION OF HARDWARE.

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NTI JOB NO. 21DO3090

Holiday Inn Express & Suites

Project :
HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

Checked by :
JAV, MJB, AJD

Sheet Title :
TYPICAL GUESTROOM LAYOUTS - TELECOM

Project No. :
2018.009

Sheet No. :
T400

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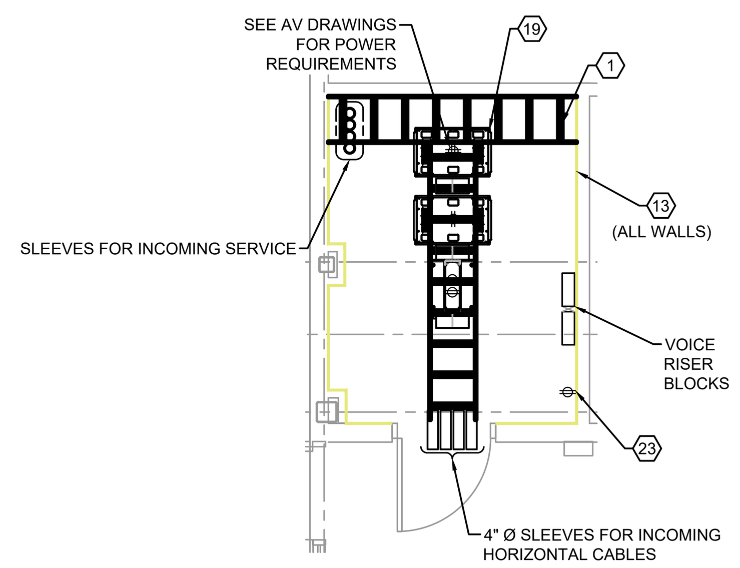
PATH: N:\2017\17\D0929 HOLIDAY INN NANUET\D-DWG\T400.DWG
PLOT DATE: 4/12/2021 5:14 PM

ALL POWER CIRCUITS FOR MDF & ALL IDF ROOMS AS WELL AS ALL FRONT DESK DROPS TO BE ON GENERATOR/EMERGENCY POWER CIRCUITS

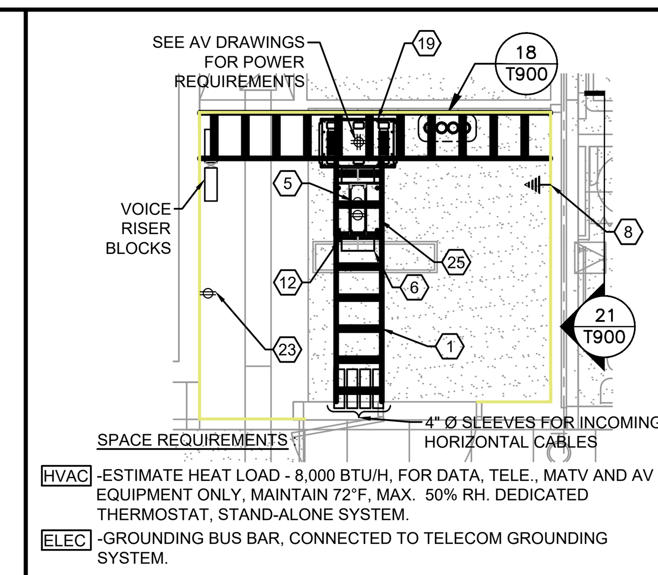


SPACE REQUIREMENTS :

HVAC -ESTIMATE HEAT LOAD - 15,000 BTU/H, FOR DATA, TELE., MATV AND AV EQUIPMENT ONLY, MAINTAIN 68°F, MAX. 50% RH. DEDICATED THERMOSTAT, STAND-ALONE SYSTEM.

ELEC -GROUNDING BUS BAR, CONNECTED TO TELECOM GROUNDING SYSTEM.

1 (MDF LAYOUT LEVEL 1)
SCALE: NTS

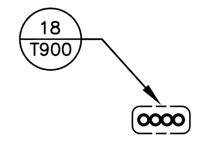


SPACE REQUIREMENTS

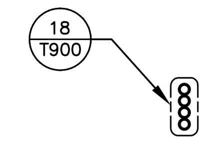
HVAC -ESTIMATE HEAT LOAD - 8,000 BTU/H, FOR DATA, TELE., MATV AND AV EQUIPMENT ONLY, MAINTAIN 72°F, MAX. 50% RH. DEDICATED THERMOSTAT, STAND-ALONE SYSTEM.

ELEC -GROUNDING BUS BAR, CONNECTED TO TELECOM GROUNDING SYSTEM.

2 IDF (LEVEL 2)
SCALE: NTS



3 CHASE (LEVELS 3-4)
SCALE: NTS



4 CHASE (LEVEL 5)
SCALE: NTS

5 NOT USED
SCALE: NTS

6 NOT USED
SCALE: NTS

7 NOT USED
SCALE: NTS

8 NOT USED
SCALE: 1/4" = 1'-0"

9 NOT USED
SCALE: 1/4" = 1'-0"

10 NOT USED
SCALE: 1/4" = 1'-0"

11 NOT USED
SCALE: 1/4" = 1'-0"

12 NOT USED
SCALE: 1/4" = 1'-0"

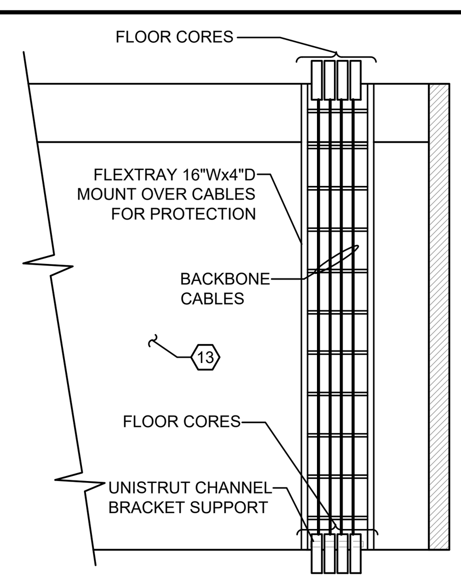
13 NOT USED
SCALE: 1/4" = 1'-0"

14 NOT USED
SCALE: 1/4" = 1'-0"

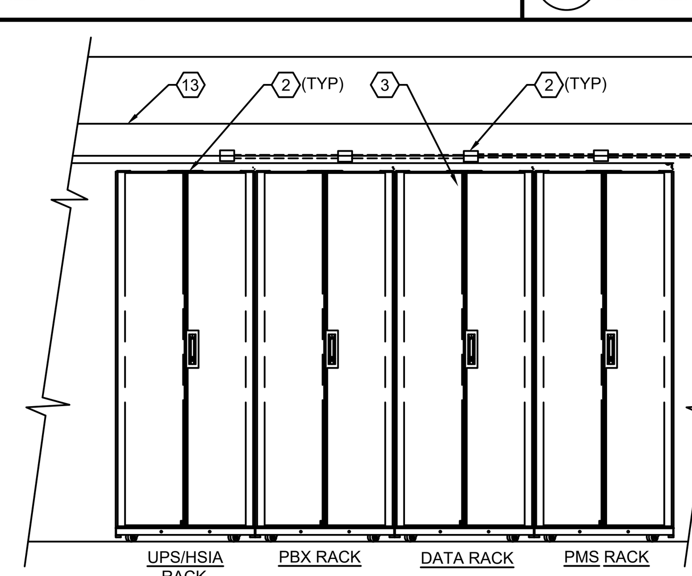
15 NOT USED
SCALE: 1/4" = 1'-0"

16 NOT USED
SCALE: 1/4" = 1'-0"

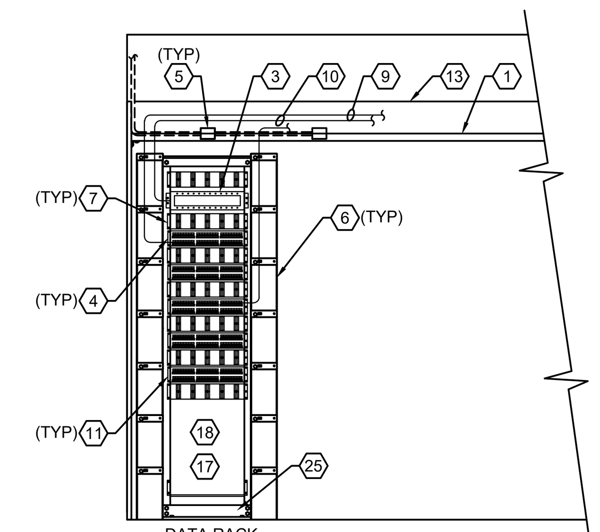
17 NOT USED
SCALE: 1/4" = 1'-0"



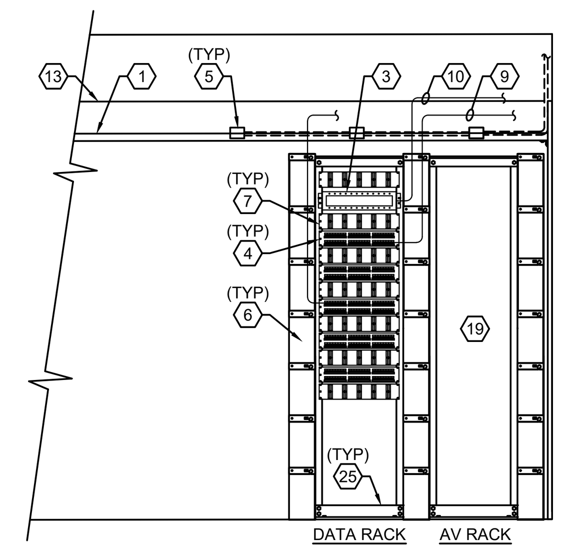
18 CHASE SPACE ELEVATION
SCALE: NTS



19 FRONT VIEW - MDF RACK ELEVATION
SCALE: NTS



20 IDF SPACE ELEVATION
SCALE: NTS



21 IDF/AV SPACE ELEVATION
SCALE: NTS

22 NOT USED
SCALE: 1/4" = 1'-0"

23 NOT USED
SCALE: 1/4" = 1'-0"

CLOSET INSTALLATION NOTES

1. THE LAN COMPUTER/TELEPHONE RM. SHALL HAVE APPROPRIATE NUMBER OF EQUIPMENT RACKS INSTALLED AS PER DRAWINGS. FLOOR MOUNTED RACKS SHALL BE CPI #55053-703 OR EQUIVALENT. FLOOR RACKS MUST BE FASTENED TO CONCRETE FLOOR, AND FASTENED TO LADDER RACK WITH PROPER CPI HARDWARE. ALL RACKS & FRAMES SHALL BE INSTALLED ACCORDING TO ALL APPLICABLE LOCAL BUILDING CODES.
2. PATCH PANELS SHALL BE 48-PORT DENSITY, 2U AND SHALL BE INSTALLED IN EQUIPMENT RACKS AS SHOWN ON ELEVATIONS. CONTRACTOR SHALL INSTALL PANELS IN SUFFICIENT QUANTITY & PORT CONFIGURATION TO TERMINATE ALL INCOMING HORIZONTAL DATA CABLES AND TELEPHONE PATCH SYSTEM CABLES. ADMIN OUTLET DATA CABLES TO BE TERMINATED ON DEDICATED PATCH PANELS.
3. EQUIPMENT RACKS MUST BE SUPPORTED OVERHEAD WITH 18"(W) x 6"(D) CABLE TRAY FROM RACKS TO WALL ACCORDING TO PLANS CODES. DRAWING DETAILS. CABLE TRAY TO BE MP HUSKY OR EQUIVALENT. LADDER RACK MAY BE USED IN IDF ROOMS WITH CEILINGS LESS THAN 8'-0". MAINTAIN A MINIMUM OF 18" CLEARANCE FROM ANY OVERHEAD SPRINKLER SYSTEMS.
4. VERTICAL WIRE MANAGEMENT SHALL BE CPI#11729-703, TO BE USED BETWEEN EACH RACK AND ON ENDS OF RACK(S).
5. HORIZONTAL WIRE MANAGEMENT, 2 RACK UNITS (3.5"), TO BE USED BETWEEN EACH PATCH PANEL, ABOVE THE TOP PANEL & BELOW THE BOTTOM PANEL FOR EACH PANEL LINEUP.
6. FOR FLOOR RACKS, A 70" CPI POWER STRIP WITH A MINIMUM OF (10) OUTLETS SHALL BE FASTENED VERTICALLY TO THE REAR OF CPI RACKS TO PROVIDE POWER TO EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF POWER RECEPTACLES. COORDINATE INSTALLATION OF POWER SUPPLY CIRCUITS WITH ELECTRICAL CONTRACTOR. ONE CIRCUIT PER IS REQUIRED. ELECTRICAL CONTRACTOR TO STRAP CONDUIT TO UNDERSIDE OF LADDER RACK WITH PROPER INSTALLATION METHOD AND HARDWARE. POWER CABLES FROM EQUIPMENT RACK TO WALL OUTLETS WILL NOT BE PERMITTED.
7. ALL IDF & MDF CROSS-CONNECT FIELDS SHALL BE OF THE 110 TYPE BLOCKS IN A SUFFICIENT QUANTITY TO FULLY TERMINATE ALL HORIZONTAL VOICE CABLES. VERTICAL CROSS-CONNECT CABLE MANAGEMENT TROUGHS MANUFACTURED BY THE SAME MANUFACTURER AS THE 110 BLOCKS MUST BE USED BETWEEN 110 BLOCKS AND VERTICAL BLOCK ARRAYS. D-RINGS WILL NOT BE PERMITTED FOR CABLE MANAGEMENT IN THE 110 BLOCK FIELD. REAR CABLE TROUGH TYPE ARRANGEMENT IS REQUIRED FOR THE 110 BLOCKS. REAR FEED AND CABLE DRESSING IN THE CABLE TROUGHS IS REQUIRED FOR ALL CABLE, BOTH WORKSTATION AND RISERS.
8. ALL PHONE CROSS CONNECTS TO BE COMPLETED BY CABLING CONTRACTOR TO PROVIDE CONTINUITY FOR PHONE LINES FROM WALL PLATE TO MDF BLOCKS.
9. ALL EQUIPMENT RACKS AND HARDWARE MUST BE GROUNDED PER TIA/EIA & NEC GUIDELINES. RACKS SHALL HAVE VERTICAL GROUND STRIPS.
10. UPS UNITS CAPABLE OF MAINTAINING POWER FOR A MINIMUM OF FIFTEEN MINUTES REQUIRED FOR ALL IT EQUIPMENT IN ALL IDF AND MDF ROOMS. TO BE PROVIDED AND INSTALLED BY OSE EQUIPMENT VENDORS.

KEYNOTE LEGEND

1. 18" WIDE LADDER RACK. MOUNT ABOVE EQUIPMENT RACKS. INSTALLED BY CABLING CONTRACTOR. CPI OR EQUIVALENT.
2. FLOOR MOUNTED EQUIPMENT CABINET, APC NET SHELTER AR3150, 78"(H) X 30"(W) X 42"(D).
3. RACK MOUNT FIBER ENCLOSURE LOADED WITH 'SC' MULTIMODE BULKHEADS - SUPPLY AS NEEDED TO TERMINATE ALL INCOMING/OUTGOING FIBER CABLES.
4. 48 PORT CAT-6 DATA PATCH PANEL RACK MOUNTED SUPPLY AS NEEDED TO TERMINATE ALL INCOMING HORIZONTAL DATA CABLES AND DATA RISER CABLES. (CAT-3 RATED PANELS MAY BE USED FOR "TELEPHONE TRUNK PANELS").
5. 120V AC/120 TWIST LOCK OUTLET. ON DEDICATED EMERGENCY POWER, SUPPLY TWO OUTLETS ON DEDICATED CIRCUIT PER RACK, COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
6. VERTICAL CABLE MANAGER (CPI #11729-703) WITH COVER (CPI #12188-001) OR APPROVED EQUIVALENT.
7. 2 UNIT HORIZONTAL CABLE MANAGER, 3.5" HIGH RACK MOUNTED.
8. GROUND BUS BAR FOR COMMUNICATIONS EQUIPMENT GROUND.
9. INCOMING 4 PAIR, CAT-6, HORIZONTAL CABLES.
10. INCOMING FIBER CABLES, SEE CABLING RISER DIAGRAM FOR EXACT REQUIREMENTS.
11. TELEPHONE TRUNK PANEL SEE 12/DV9.05. SUPPLY AS NEEDED TO ACCOMMODATE ALL ANALOG CABLES.
12. 2OA RATED 70" POWER STRIP (CPI #12851-758) WITH FACTORY INSTALLED 20A TWIST LOCK PLUG AND WITH 6.5" STAND OFF BRACKETS, SEE DETAIL 1/DV904.
13. 3/4" AC GRADE PLYWOOD (MOUNT WITH BOTTOM 6" OFF THE FLOOR), 8 FEET HIGH, FIRE RATED OR TREATED ON ALL SIDES WITH TWO COATS OF FIRE RESISTANT PAINT TYPICAL TO ALL WALLS.
14. 20 AMP 120VAC QUAD RECEPTACLE ON DEDICATED EMERGENCY POWER CIRCUIT.
15. 20 AMP 120VAC. DUPLEX RECEPTACLE ON DEDICATED CIRCUIT. COORDINATE FINAL REQUIREMENTS WITH MATV SERVICE PROVIDER.
16. 300 OR 900 PAIR CAT-6 RATED 110 XC BLOCKS, MOUNTED IN CROSS-CONNECT DISTRIBUTION FRAMES WITH VERTICAL CABLE MANAGEMENT FRAMES BETWEEN, SUPPLY AS NEEDED.
17. DOUBLE SIDED SHELF, MIN. 21" DEEP, CENTER LOADED (CPI 40108-719).
18. RACKS AND/OR RACK SPACE TO BE LEFT OPEN TO BE POPULATED BY OTHERS.
19. AV CABINET, SEE AV DIAGRAMS FOR DETAILS.
20. 20 AMP 120VAC. DUPLEX RECEPTACLE ON DEDICATED CIRCUIT.
21. COORDINATE WITH AV DRAWINGS.
22. 4-POST PMS RACK. PMS SYSTEM FLOOR MOUNT CPI 15218-703.
23. CONVENIENCE 120 V 20 AMP DUPLEX OUTLETS EVERY 6' AROUND THE ROOM. CAN BE DAISY CHAINED TOGETHER ON (1) ONE COMMON DEDICATED CIRCUIT.
24. WALL MOUNT EQUIPMENT RACK, 72"H X 25"D. CPI PART NUMBER 11792-725 (OR EQUIVALENT).
25. FLOOR MOUNTED EQUIPMENT RELAY RACK, 7'(H) x 19"(W) BLACK, (CPI #55059-703) OR APPROVED EQUIVALENT.

GENERAL NOTES

1. ALL HORIZONTAL TO BACKBONE CROSS CONNECTING TO BE PERFORMED BY CABLING CONTRACTOR. REFER TO DETAILS FOR CROSS-CONNECTING REQUIREMENTS FOR TELEPHONE PATCHING SYSTEM PATCH PANELS.
2. HEAT LOADS LISTED HEREIN REPRESENT KNOWN LOADS FOR DATA/TEL. SYSTEM EQUIPMENT IN RESPECTIVE ROOMS AT TIME OF DESIGN. MECHANICAL SYSTEMS DESIGNER SHOULD VERIFY HEAT LOADS WITH OTHER DESIGNERS FOR SHARED EQUIPMENT SPACES. MECHANICAL SYSTEMS ARE TO BE SIZED BY MECHANICAL ENGINEER AND SPECIFIED ON MECHANICAL DRAWINGS.
3. HVAC SYSTEMS FOR EQUIPMENT ROOMS SHALL BE DEDICATED SYSTEMS. WHERE NOT FEASIBLE, ROOMS SHALL BE ON DEDICATED ZONE WITH INDEPENDENT THERMOSTAT CONTROL.
4. ALL EQUIPMENT ROOMS SHALL HAVE:
   - -NO CEILING TILES
   - -TILE OR SEALED CONCRETE FLOOR (NO CARPET)
   - -NO WATER LEAK POTENTIAL SPACES ABOVE (POOL, KITCHEN, BATHROOM, ETC.)
   - -HIGH-TEMP FIRE PROTECTION HEADS
5. RACK ELEVATIONS ARE SHOWN FOR REFERENCE ONLY. CABLING CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING APPROPRIATE NUMBER OF PANELS AS NECESSARY TO TERMINATE ALL HORIZONTAL AND BACKBONE CABLES WITHIN EACH TEL./ELEC.-IDF AND EQUIPMENT ROOM.
6. MDF AND IDFs FOR HOTEL EQUIPMENT ROOMS SHALL BE ON GENERATOR POWER CIRCUITS.

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : ENLARGED EQUIPMENT ROOM LAYOUTS - TELECOM

Project No. : 2018.009

Sheet No. : T900

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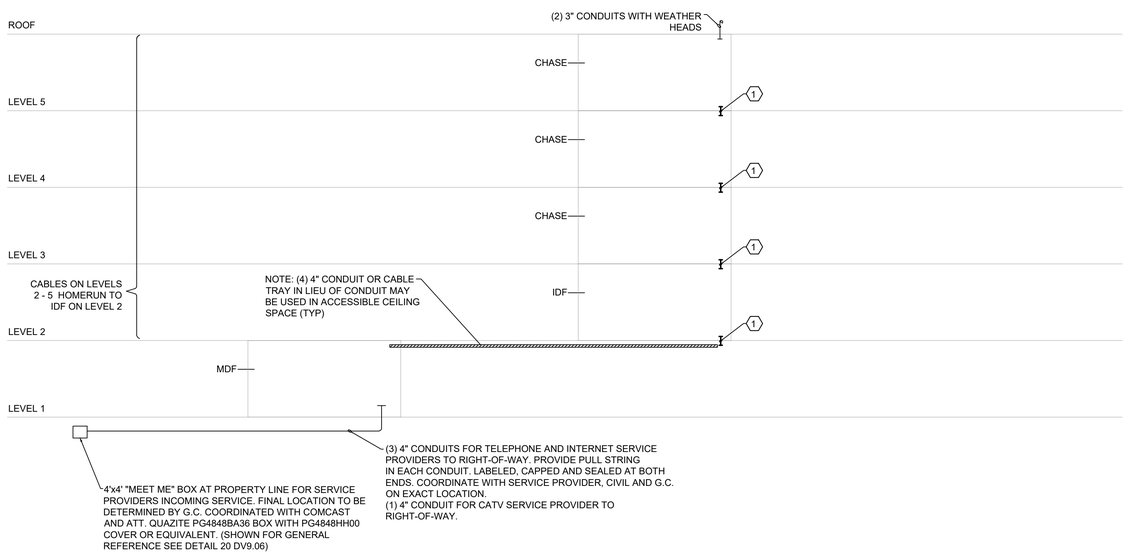

KEYNOTE LEGEND

1. (4) 4"Ø FLOOR CORES WITH SLEEVES
2. (3) 4" CONDUITS.
3. (2) 4"Ø FLOOR CORES WITH SLEEVES.
4. (3) 4" CONDUITS IN SLAB.
5. NOT USED

GENERAL NOTES

1. ALL CONDUITS, OUTLET BOXES AND SLEEVES TO BE INSTALLED BY GENERAL CONTRACTOR. ALL CONDUITS TO BE INSTALLED WITH PULL STRINGS AND LABELED ON BOTH ENDS WITH DESTINATION.
2. INSTALLER IS RESPONSIBLE FOR PROVIDING ALL CABLE, CONNECTORS, CABLE MANAGEMENT HARDWARE, PATCH PANELS, RACKS, GROUNDING HARDWARE AND/OR MOUNTING BRACKETS AMP/TAPS AND ANY OTHER RELATED PRODUCTS OR HARDWARE REQUIRED TO DELIVER COMPLETED SYSTEM TO CLIENT.
3. ALL RISER CABLES TO BE PLENUM RATED UNLESS ROUTED THROUGH CONTIGUOUS CONDUIT PATHWAY.
4. THIS DRAWING IS TO COMMUNICATE DESIGN INTENT.ANY CABLING PATHWAYS SHOWN REPRESENT A POTENTIAL ROUTE AS DETERMINED AT THE TIME OF DESIGN AND MAY NOT NECESSARILY BE THE OPTIMAL PATHWAY, DEPENDING UPON ACTUAL FIELD CONDITIONS. ALL CABLING PATHWAYS MUST BE FIELD VERIFIED. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE OPTIMAL CABLING PATHWAYS BASED UPON FIELD CONDITIONS, CODE COMPLIANCE AND COORDINATION WITH OTHER TRADES. FOR RENOVATION PROJECTS, IT IS IMPERATIVE THAT THE CONTRACTOR VERIFY ALL CABLING PATHWAYS PRIOR TO SUBMITTING THEIR BID. THE OWNER WILL NOT BE RESPONSIBLE FOR TIME ASSOCIATED WITH FIELD VERIFICATION EFFORTS FOR DETERMINING MOST VIABLE CABLING PATHWAYS.

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

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THRUWAY PLAZA OF
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60% ARCH REVIEW	11.10.20
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PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

Checked by :
JAV, MJB, AJD

Sheet Title :
CONDUIT RISER DIAGRAM - TELECOM

Project No. :
2018.009

Sheet No. :
T901

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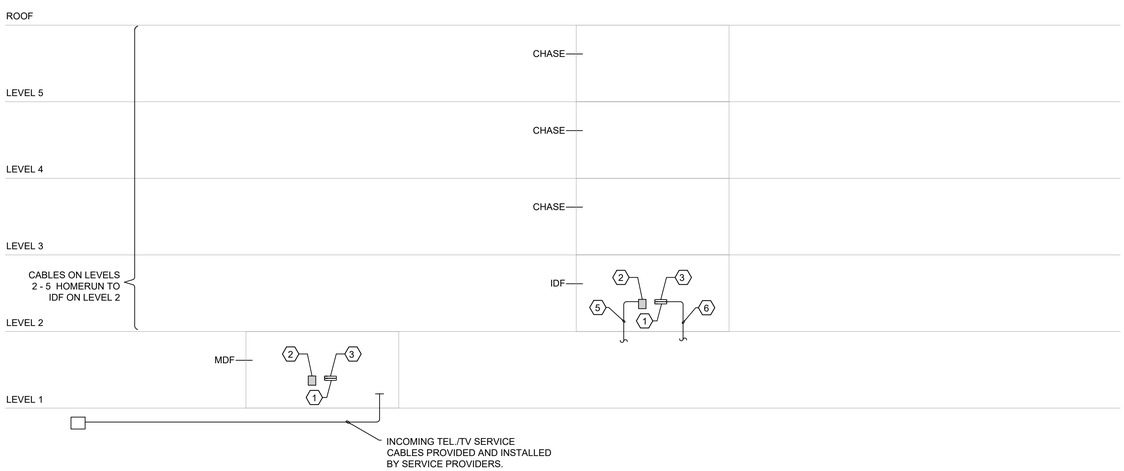

KEYNOTE LEGEND

1. DATA/PATCH PANEL FOR HORIZONTAL DATA & WIRELESS NODE BACKBONE & COPPER DATA CABLES. SUPPLY IN AMPLE PORT QUANTITIES AS NEEDED TO TERMINATE ALL INCOMING DATA CABLES.
2. 110 BLOCK IN DISTRIBUTION FRAMES FOR BACKBONE, D-MARC EXTENSION AND HORIZONTAL CABLES - SEE DETAIL 2/DV901 CROSS CONNECTS TO BE DONE BY CABLING CONTRACTOR TO PROVIDE CONTINUITY FROM JACK TO MDF BLOCKS.
3. FIBER OPTIC ENCLOSURE WITH LC PANEL AND DATA PATCH PANEL
4. (1) 36 STRAND SM FIBER CABLE HOMERUN TO MDF ROOM
5. (1) 25 PAIR CAT 3 RISER - HOMERUN TO MDF ROOM. (QUOTE AS DEDUCT ALTERNATE)
6. (1) 12 PAIR/24 STRAND 50/125 MM FIBER OPTIC CABLE (HOMERUN TO MDF)
   (1) 12 PAIR/24 STRAND SM FIBER CABLE (HOMERUN TO MDF)
   (4) 4 PAIR CAT-6 CABLE (HOMERUN TO MDF)
7. 50 PAIR CAT-3 FOR ANALOG DEMARC EXTENSION
8. TERMINATE CAT 3 CABLES ONTO PATCH PANELS (QUOTE AS DEDUCT ALTERNATE)

GENERAL NOTES

1. ALL CONDUITS, OUTLET BOXES AND SLEEVES TO BE INSTALLED BY GENERAL CONTRACTOR. ALL CONDUITS TO BE INSTALLED WITH PULL STRINGS AND LABELED ON BOTH ENDS WITH DESTINATION.
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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

Checked by :
JAV, MJB, AJD

Sheet Title :
DATA RISER DIAGRAM - TELECOM

Project No. :
2018.009

Sheet No. :
T902

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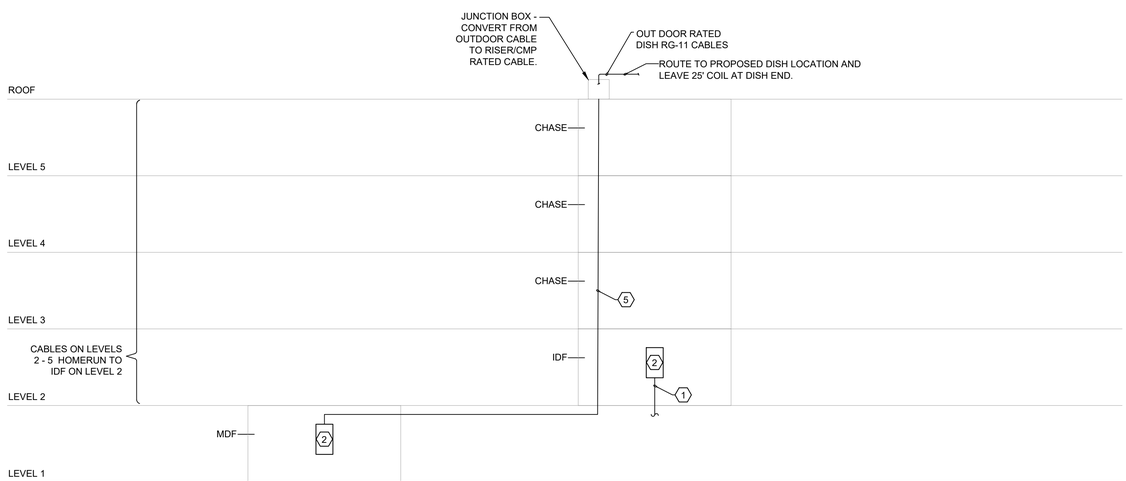

KEYNOTE LEGEND

1. (2) RG-11 COAX. MOUNT TAPS AND AMPS ON BACKBOARD.
2. MATV TAPS, AMPS, ETC. PROVIDED AND INSTALLED BY CABLING CONTRACTOR AS PART OF THIS SCOPE OF WORK. SEE MATV SYSTEM SPECIFICATIONS ON COVER SHEET.
3. (12) RG-11 TO SATELLITE DISH ON ROOF. INDOOR RATED CABLES TO BE CMR OR CMP PER LOCAL CODES - FEEDS FROM TOP FLOOR TO ROOF TO BE OUTDOOR RATED.
4. CAT 6 CABLE FROM TV OUTLET.
5. (12) SINGLE MODE FIBER STRANDS HOMERUN TO MATV HEADEND IN MDF.

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS THRUWAY PLAZA OF ROCKLAND ASSOCIATES CLARKSTOWN (NANUET) ROCKLAND COUNTY, NY 10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : MATV RISER DIAGRAM - TELECOM

Project No. : 2018.009

Sheet No. : T903

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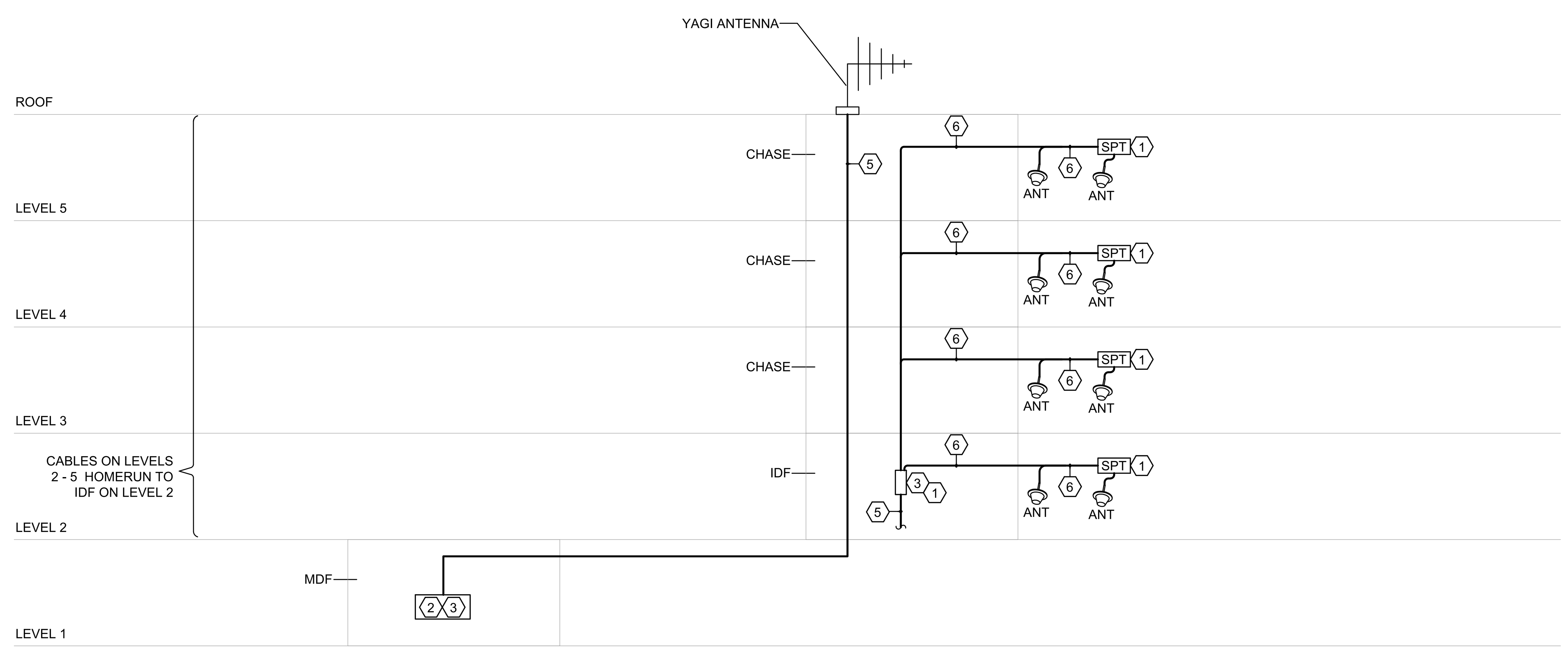

2 HR RATED WALLS FOR VERTICAL CABLING REQUIRED FOR SURVIVABILITY

KEYNOTE LEGEND

1	SPLITTER
2	FIRE ALARM MODULE BDA MONITOR (FIRE PANEL)
3	UPS MODULE (12 HOUR)
4	ANTENNA
5	BACKBONE CABLE HOMERUN TO MDF ROOM
6	HORIZONTAL CABLE - 1 1/4" CONDUIT PATHWAY REQUIRED. CONDUIT TO BE EMBEDDED IN SLAB TO MEET 2 HOUR SURVIVALABILITY REQUIREMENTS

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SECTION 274134

RADIO REPEATER SYSTEM (RSS)
FOR FIRST RESPONDER COMMUNICATIONS

A. Provide a Radio Repeater System (RRS) for City of MEMPHIS, TN first responder communications:
   1. General:
      a. Pathway will be provided from the existing donor antenna location to the system head end.
      b. System design shall take into account:
         1) Potential sources of interference
         2) Actual building construction materials
         3) Expected traffic in every area and density will be provided to accommodate a 30% increase in capacity
      c. BDA shall be located to minimize disruptions to other systems
      d. System shall comply with codes and standards as described in IFC 510 and NFPA 72
      e. System shall meet all requirements of the local Authority Having Jurisdiction (AHJ).
      f. System implementation shall include benchmark testing consistent with post-installation grid-testing requirements prior to installation of system to determine ambient signal strength. Contractor shall submit pricing separately for the benchmark testing, in the event that ambient signal strength suffices to eliminate the need for some or all of the First Responder System.

B. The Radio Repeater System shall be FCC approved and amplify the city's two-way radio signals to provide adequate radio coverage throughout the building or structure for the first responders.

C. The system shall consist of bi-directional amplifier(s) with radiating cable ("leaky coax") or a discrete distributed antenna system. Areas that typically need to be evaluated for poor communications are: below grade rooms, parking garages, elevators and areas surrounded by metal and/or concrete. Radio Repeater System shall support the city's First Responder radio network frequencies. It shall operate at the Fire Command Centre and elevators, elevator lobbies, emergency and standby power rooms, standpipe hose connection locations, the building engineer's office, mechanical rooms, elevator equipment rooms, fire pump rooms, areas of refuge, entries into required exit stairways, rooms containing the main electrical service disconnecting means, stair enclosures, penthouses, and basements shall also be transparent to communication signals. Amplifiers shall be powered by a dedicated uninterruptible power source (UPS) with a minimum backup time of twelve (12) hours with all amplifiers at rated output. The UPS input circuit shall be a dedicated circuit and connected to the emergency/standby generator. The circuit shall be provided with a listed "lock on" device.

Bi-directional amplifier(s) and UPS shall be housed in NEMA 4X rated enclosures for protection from water ingress. Care shall be taken to ensure that the NI adequate ventilation and cooling to prevent the build-up of b

System shall provide signal to the Fire Alarm Control Panel to meet all alarm and trouble conditions as directed by IFC 510 and NFPA 72. Minimum alarm requirements are for power/ battery failure, antenna malfunction, and battery capacity alarm when below 70%. Other alarm conditions may be required by the AHJ or latest version of the IFC 510.

D. Design Requirement:
   1. Estimate RSSI signal levels at the donor location and provide a detailed system design that will meet the coverage and capacity requirements of the local authority having jurisdiction. System shall be designed to provide better than -90 DBm coverage to greater than 95% of the structure.

E. System Requirements:
   1. The system shall be provided in accordance with the applicable International Fire Code and its amendments.
      a. Provide necessary donor antenna(s) on the roof level.
      b. All cable entry points shall be grounded and lightning arrestors shall be installed per R-56 standard.
      c. All equipment shall be grounded per R-56 standard.
      d. Provide fire rated coaxial cable with connectors from the roof level down to system head end equipment.
      e. Provide plenum rated ½ inch coaxial cable with connectors for all horizontal runs. All materials installed in the plenum including passive devices, hangers, and ties shall be plenum rated.
      f. Provide plenum rated fiber optic cable and connectors meeting manufacturers recommendations for all fiber runs as required.
      g. Fire stopping shall be installed at any new or existing firewall penetrations.
      h. All passive system components including but not limited to splitters, taps, directional couplers and indoor antennas shall support 800 and 700 MHz and other public safety frequencies as dictated by the local jurisdiction
      i. All equipment and materials shall be installed according to manufacturers' recommendations.
      j. All equipment and materials shall be new, not discontinued, and have at least one year warranty.
      k. All labor must be warranted for workmanship defects for a minimum period of one year
      l. Installation shall be coordinated with the MEMPHIS, TN to ensure their macro radio network is not disrupted.

F. Response Submittals:
   1. Include:
      a. System design documentation including design assumptions, power budgets, system block diagram, and floor plans showing cable routing, antenna locations, and equipment locations.
      b. Product data sheets for all electronic equipment, fiber and coaxial cable, splitters, couplers and antennas.
      c. Bill of materials including equipment and materials lead times.
      d. Four references for prior in-building system installations.
      e. Resumes for Design Engineer, Project Manager, and Installation Supervisor.

G. Post Installation Requirements:
   1. Following system commissioning, contractor shall provide:
      a. As-built system design documentation including design assumptions, power budgets, system block diagram, and floor plans showing cable routing, antenna locations, and equipment locations.
      b. Product data sheets for all electronic equipment, fiber and coaxial cable, splitters, couplers and antennas.
      c. Final bill of materials.
      d. Test results of as-built system verifying system meets design requirements including:
         1) Results of test showing RSSI and MOS scores measured at discrete points within a 20-square grid pattern on each floor, verifying >95% coverage at -90dBm or greater, by demonstrating a passing signal strength in no fewer 19 of the 20 squares. Should system fail to pass on any floor, re-testing shall be conducted by dividing each floor into a 40-square grid and demonstrating a passing signal strength in no fewer than 38 of the 40 squares. Should system fail to pass retest on any floor, system shall be augmented so as to pass signal strength and coverage requirements.

         2) RSSI levels at each interior antenna.
         3) BDA commissioning documentation including date of commission, actual off-air downlink levels at the donor antenna and BDA, isolation between the donor antenna(s) and the DAS, and BDA gain and AGC settings.
      e. Training for up to four personnel on the system, not to exceed two hours. Training manuals shall include product data sheets, as-built system documentation, and system testing and commissioning documentation.

END OF SECTION 274134

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : FIRST RESPONDERS RADIO DIAGRAM - TELECOM

Project No. : 2018.009

Sheet No. : T904

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• Short Antenna Feeder runs
• Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
• NEW! Times Protect™LP-18-400 protector-series

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TIMES MICROWAVE SYSTEMS
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AirCell®
Plenum Cable
TRILOGY
Product Specification
50 Ohm Plenum Cable, 1/2" – APR12LM

DAS RISER DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY.

KEYNOTE LEGEND

1. SPLITTER
2. BI-DIRECTIONAL AMPLIFIER/REPEATER (BDA) & GPS FIBER BASE UNIT. FIBER DISTRIBUTION HEAD-END
3. UPS MODULE (12 HOUR)
4. ANTENNA
5. 48 STRAND SINGLE MODE FIBER RISER. BACKBONE CABLING HOMERUN TO MAIN DAS ROOM.
6. HELIAX COAX CABLE

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS THRUWAY PLAZA OF ROCKLAND ASSOCIATES CLARKSTOWN (NANUET) ROCKLAND COUNTY, NY 10954

Issued for :

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PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : DAS RISER DIAGRAM - TELECOM

Project No. : 2018.009

Sheet No. : T905

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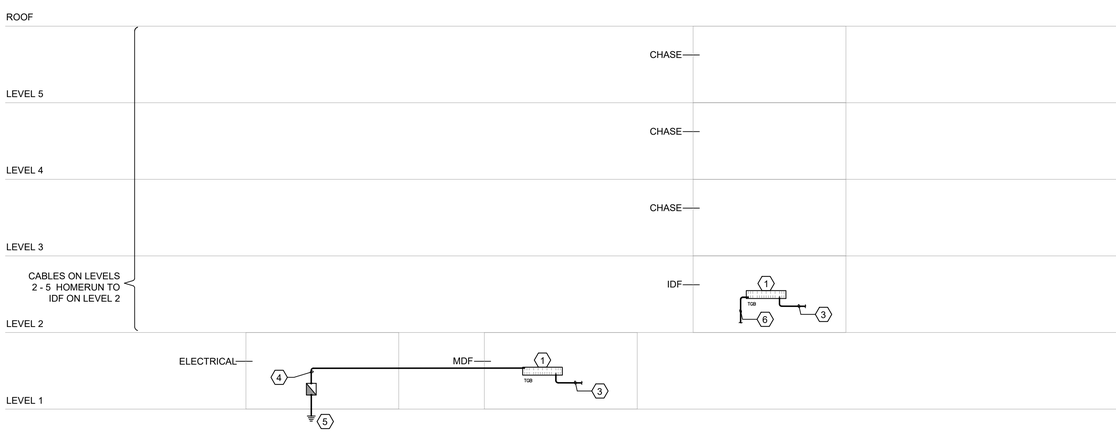

SIZING OF THE TBB

TBB length linear M (FEET)	TBB Size (AWG)
LESS THAN 8 (26)	2
8 - 10 (27 - 33)	2
10 - 13 (34 - 41)	1
13 - 16 (42 - 52)	1/0
16 - 20 (53 - 66)	2/0
GREATER THAN 20 (66)	3/0

DRAWING NOTES

1. TGB 2"X12" BUSBAR CPI PART #13622-012 TO BE INSTALLED IN IDF.
2. TMGB 4"X12" BUSBAR CPI PART #40153-012 TO BE INSTALLED IN MDF.
3. INSTALL GROUND BUSBAR A MINIMUM OF 18"AFF WITH 6" CLEAR ON ALL SIDES.

KEYNOTE LEGEND

1. TELECOMMUNICATIONS GROUNDING BUSBAR.
2. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR.
3. #6 AWG (MINIMUM) GROUNDING CONDUCTOR TO EQUIPMENT
4. GROUNDING CONDUCTOR FROM MAIN ELEC. ROOM (BY ELECTRICAL)
5. GROUNDING ELECTRODE CONDUCTOR
6. DAISY CHAIN TO LEVEL BELOW

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2. INSTALLER IS RESPONSIBLE FOR PROVIDING ALL CABLE, CONNECTORS, CABLE MANAGEMENT HARDWARE, PATCH PANELS, RACKS, GROUNDING HARDWARE AND/OR MOUNTING BRACKETS AMP/TAPS AND ANY OTHER RELATED PRODUCTS OR HARDWARE REQUIRED TO DELIVER COMPLETED SYSTEM TO CLIENT.
3. ALL RISER CABLES TO BE PLENUM RATED UNLESS ROUTED THROUGH CONTIGUOUS CONDUIT PATHWAY.
4. THIS DRAWING IS TO COMMUNICATE DESIGN INTENT.ANY CABLING PATHWAYS SHOWN REPRESENT A POTENTIAL ROUTE AS DETERMINED AT THE TIME OF DESIGN AND MAY NOT NECESSARILY BE THE OPTIMAL PATHWAY, DEPENDING UPON ACTUAL FIELD CONDITIONS. ALL CABLING PATHWAYS MUST BE FIELD VERIFIED. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE OPTIMAL CABLING PATHWAYS BASED UPON FIELD CONDITIONS, CODE COMPLIANCE AND COORDINATION WITH OTHER TRADES. FOR RENOVATION PROJECTS, IT IS IMPERATIVE THAT THE CONTRACTOR VERIFY ALL CABLING PATHWAYS PRIOR TO SUBMITTING THEIR BID. THE OWNER WILL NOT BE RESPONSIBLE FOR TIME ASSOCIATED WITH FIELD VERIFICATION EFFORTS FOR DETERMINING MOST VIABLE CABLING PATHWAYS.
5. THE TBB SHALL BE A COPPER CONDUCTOR. THE MIN. TBB CONDUCTOR SIZE SHALL BE A NO. 6 AWG. THE TBB SHOULD BE SIZED BY THE ELECTRICAL ENGINEER. THE TBB MAY BE INSULATED AND, IF SO, THE INSULATION SHALL MEET THE FIRE RATINGS OF ITS INSULATION SHALL MEET THE FIRE RATINGS OF ITS PATHWAY. THE SIZING OF THE TBB IS NOT INTENDED TO ACCOUNT FOR THE REDUCTION OR CONTROL OF ELECTROMAGNETIC INTERFERENCE. (FROM J-STD-607-A).

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NTI JOB NO. 21D03090

Holiday Inn Express & Suites

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

Checked by :
JAV, MJB, AJD

Sheet Title :
GROUNDING RISER DIAGRAM - TELECOM

Project No. :
2018.009

Sheet No. :
T906

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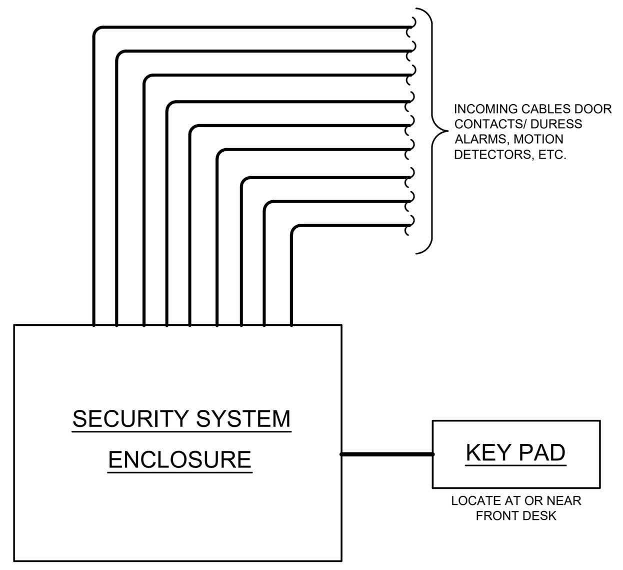
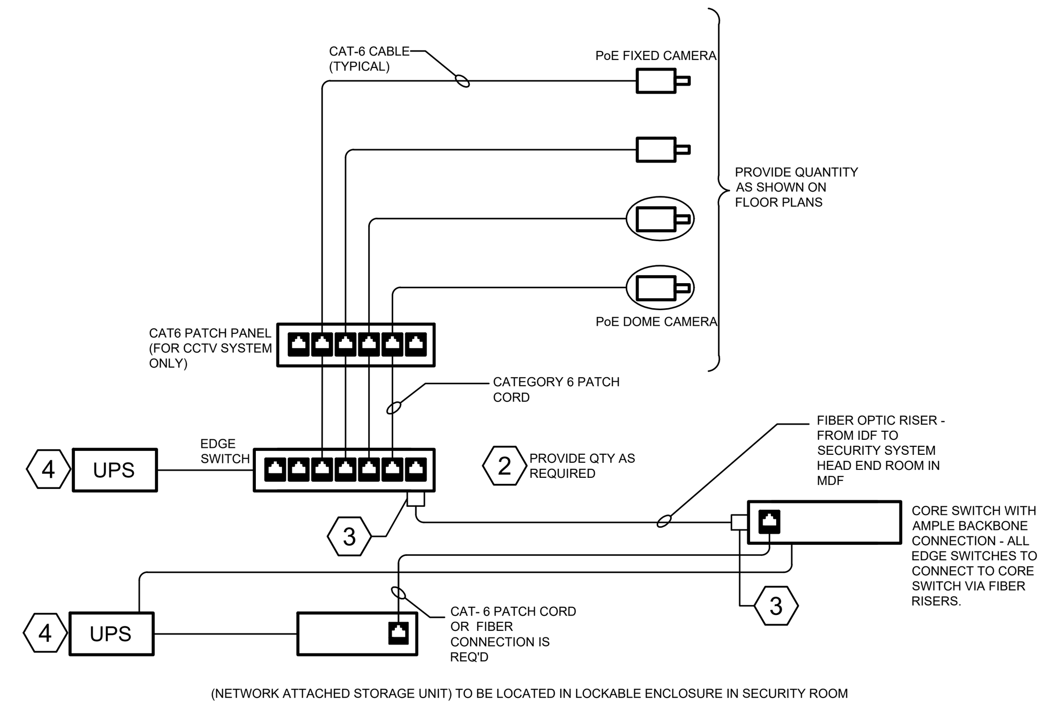


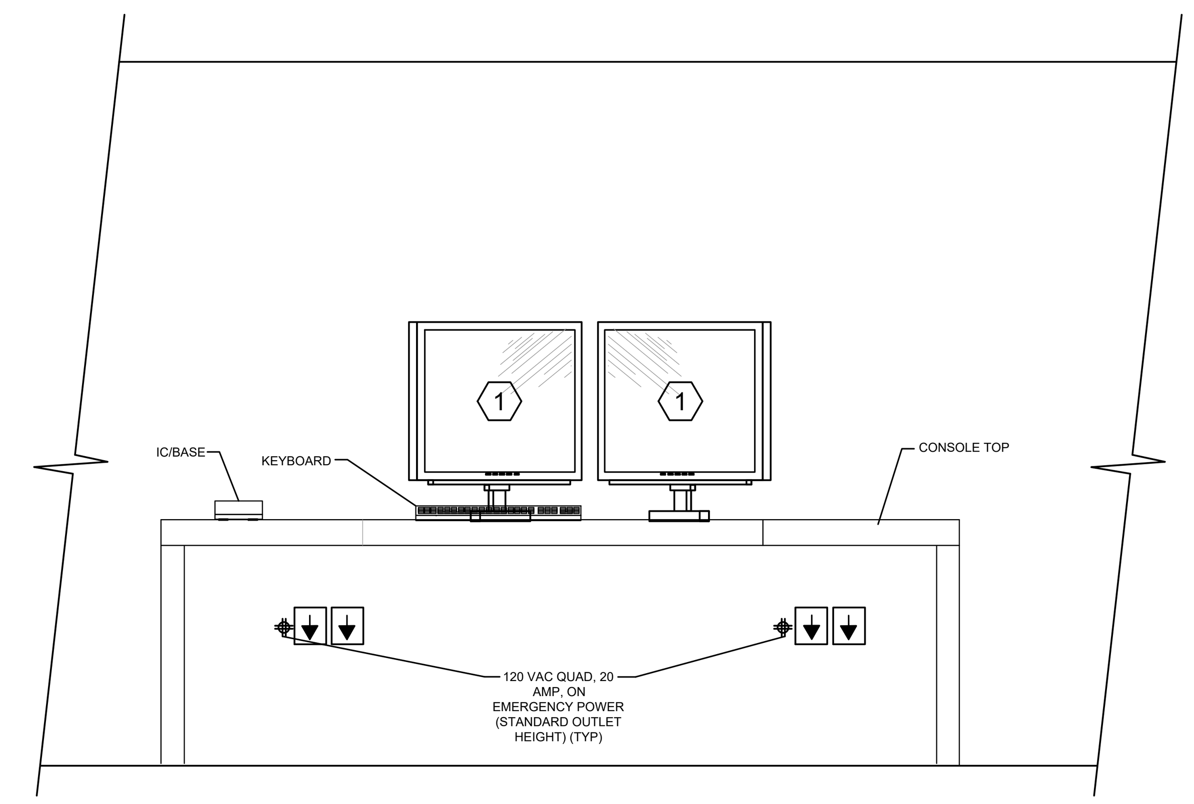
1 ALARM SYSTEM SCHEMATIC DIAGRAM
SCALE: NTS



PROVIDE UPS AT EACH IDF AND AT DVR AND SECURITY CONSOLE LOCATIONS FOR CCTV EQUIPMENT.

SCHEMATIC DIAGRAM ONLY TO OUTLINE INTENT OF IP CCTV SYSTEM WITH DEDICATED NETWORK. NOT ON HOTEL NETWORK. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF FINAL SYSTEM CONFIGURATION PRIOR TO ORDERING MATERIALS FOR SYSTEM. SEE CCTV INSTALLATION NOTEBOOK. (THIS SHEET)

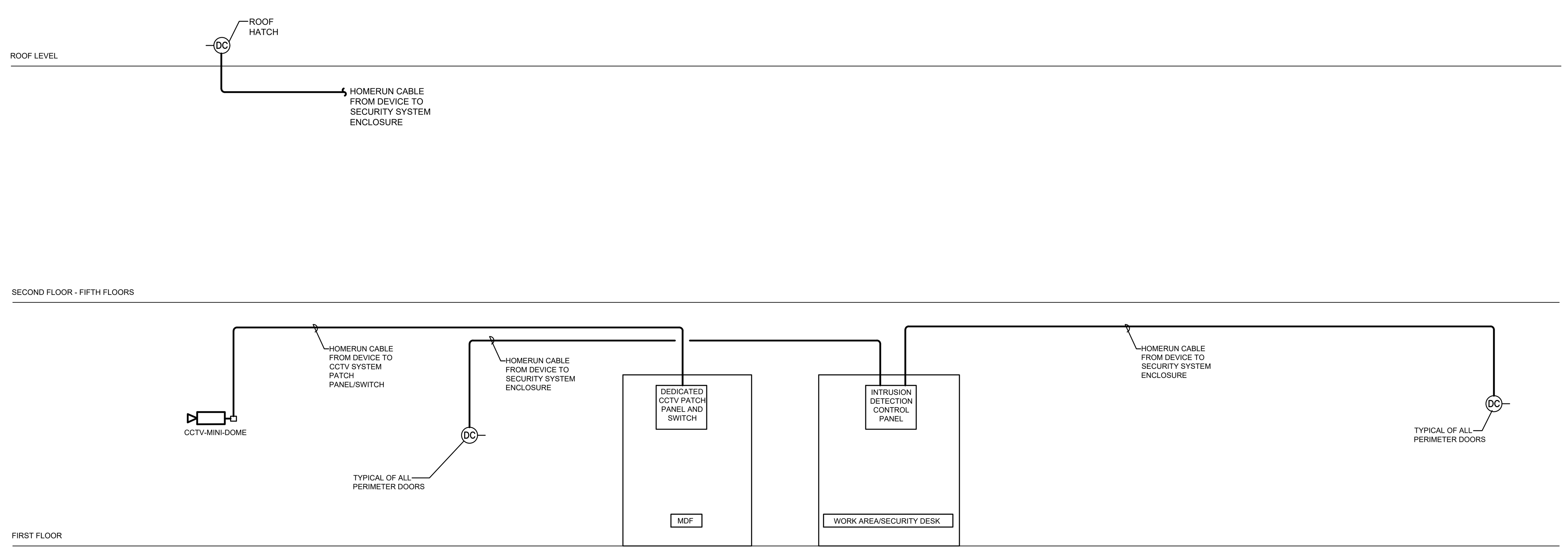
2 SECURITY SYSTEM SCHEMATIC ONE LINE DIAGRAM
SCALE: NTS



TYPICAL SECURITY DESK SETUP - VERIFY FINAL LOCATION AND DESIGN WITH OWNER.
(LIKELY IN WORK AREA)

3 SECURITY HEAD END ELEVATION
SCALE: NTS

NOTE : VERIFY QUANTITIES OF DEVICES AND DEVICE TYPES USING THE FLOOR PLANS, THIS DRAWING IS INTENDED TO REPRESENT THE SYSTEM CONNECTIVITY IN SCHEMATIC PERSPECTIVE.



4 CCTV/ALARM SYSTEM RISER DIAGRAM
SCALE: NTS

GENERAL NOTES

1. HOMERUN A CAT-6, 4 PAIR PLENUM CABLE FROM EACH CAMERA TO NEAREST IDF CLOSET. LEAVE 10' CABLE COILED AT CLOSET END AND LEAVE 6' CABLE COILED AT INTERIOR CAMERA END. (LEAVE 10' CABLE COILED AT EXTERIOR CAMERA ENDS, IF CONTRACTOR DOES NOT PERFORM PENTRATION, 3' COILED IF CONTRACTOR DOES PENETRATION.)
2. CCTV AND INTRUSION DETECTION SYSTEM SHALL USE UPS AS AN EMERGENCY POWER. UPS UNITS TO BE PROVIIDED AND INSTALLED BY CONTRACTOR, IDF & MAIN SECURITY ROOM WILL HAVE E.P. CIRCUITS. UPS MUST BRIDGE POWER GAP IN THE EVENT OF A POWER OUTAGE.
3. KEY CARD ACCESS READERS ARE SHOWN ON THE FLOOR PLANS FOR INFORMATION AND COORDINATION PURPOSES ONLY. REFER TO THE DOOR HARDWARE SCHEDULE DRAWINGS FOR MORE DETAILS. PLEASE NOTE THAT THE KEY CARD ACCESS SYSTEM IN THE COMMON AREAS IS THE EXTENSION OF THE RESIDENT ENTRY SYSTEM. COORDINATE FINAL LOCATIONS WITH THE OWNER/OPERATOR.

KEYNOTE LEGEND

1. 24" SUPER HIGH RESOLUTION COLOR MONITOR.
2. 12 OR 24-PORT 10/100 POE SMART SWITCH WITH 2-GIGABIT BACKBONE CONNECTION PORTS.
3. FIBER TO COPPER TRANSCEIVERS.
4. LOCAL UPS UNITS FOR ALL CCTV SYSTEM POWERED COMPONENTS.

INTRUSION DETECTION SYSTEM

1. INTRUSION DETECTION AND HOLDUP/DURESS ALARM PANELS AND KEYPADS SHALL BE LOCATED AS SHOWN ON THE FLOOR PLANS.
2. ALARM ANNUNCIATION SHALL OCCUR AT THE CENTRAL MONITORING STATION IN THE WORKROOM AND SHALL PROVIDE AUDIBLE AND VISUAL INDICATION OF ACTIVATION OF DOOR CONTACT ALARMS.
3. ALL CABLING TO AND FROM CONTACTS SHALL BE CONCEALED WITHIN WALLS AND ACCESSIBLE ACCESSIBLE CEILING SPACES. PLENUM RATED CABLE SHALL BE USED THROUGHOUT.
4. ALL FIRE RATED WALL AND FLOOR PENETRATIONS SHALL BE FIRE STOPPED PER LOCAL CODES AND ORDINANCES.
5. UPON RECEIPT OF A DOOR CONTACT VIOLATION THE SYSTEM SHALL:
   A) ACTIVATE AN AUDIBLE ALARM AT THE MAIN ALARM CONTROL PANEL.
   B) PROVIDE LOCATION INFORMATION ON LCD DISPLAYS.
   C) ENTER THE EVENT IN THE ALARM LOG WITH TIME AND DATE STAMP.
6. AN ALARM CONDITION SHALL BE ACKNOWLEDGED PRIOR TO CLEARING THE ALARM. THIS SHALL BE ACCOMPLISHED AT EITHER KEYPAD LOCATION.
7. THE AUDIBLE ALARM AT THE MAIN CONTROL PANEL SHALL BE CAPABLE OF SILENCING PRIOR TO ACKNOWLEDGMENT.
8. THE INTRUSION DETECTION SYSTEM SHALL HAVE FOLLOWING CAPABILITIES:

   GENERAL FUNCTIONS --OPERATOR SECURITY LEVELS TO RESTRICT ACCESS TO CERTAIN INFORMATION AND CONTROL FUNCTIONS.
   -REMOTE/OFFSITE MONITORING CAPABILITY.
   -MANUAL OVERRIDE OF CONTACTS.
   -DOOR CONTACT TIME-OF-DAY SCHEDULE FOR ACTIVATION/ DEACTIVATION.

   ALARMS -ALARM LOG WITH SUMMARY REPORTS. INCLUDES FILTERING AND SORTING OPTIONS.
   -AUDIBLE TONES AT WORKSTATION IN THE EVENT OF AN ALARM.
   -USER-DEFINED ALARMS AND ALARM PRIORITIES.
   -DOOR OPEN FOR DEFINED PERIOD OF TIME (ADJUSTABLE)
   -ALL OR SELECTED SET OF DOORS.

   REPORTS
   -AUTOMATIC REPORT GENERATION FOR PRINTING AND DISPLAYING ON MONITOR.
   -ALARM EVENT - SEARCH AND QUERY THE ALARM LOG.
   -ALARM DURATION
   -INDICATES LENGTH OF TIME A GIVEN EVENT HAS BEEN IN ALARM.
9. THE HOLDUP ALARM SYSTEM SHALL CONSIST OF ALARM SWITCHES CONNECTED TO AUDIBLE AND VISUAL ANNUNCIATORS/KEYPADS IN: -WORKROOM -BEHIND FRONT DESK SYSTEM SHOULD AUTOMATICALLY NOTIFY POLICE OR 24 HR SECURITY MONITORING 3RD PARTY COMPANY UPON TRIGGERING OF HOLDUP ALARMS.
10. TRAINING: PROVIDE INSTRUCTORS EXPERIENCED IN OPERATION AND MAINTENANCE PROCEDURES. PROVIDE INSTRUCTION AT MUTUALLY AGREED-ON TIMES. FOR EQUIPMENT THAT REQUIRES SEASONAL OPERATION, PROVIDE SIMILAR INSTRUCTION AT THE START OF EACH SEASON. SCHEDULE TRAINING WITH OWNER, THROUGH GENERAL CONTRACTOR WITH AT LEAST SEVEN DAYS ADVANCED NOTICE. PROVIDE NOTIFICATION OF DATES, TIMES, LENGTH OF INSTRUCTION, AND COURSE CONTENT. CONTENT SHALL INCLUDE SYSTEM DESIGN AND OPERATIONAL PHILOSOPHY, REVIEW OF SYSTEM DOCUMENTATION, OPERATIONS, ADJUSTMENTS, TROUBLESHOOTING, MAINTENANCE, AND REPAIR.
11. INTRUSION DETECTION SYSTEM CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONNECTORS, CABLING, HARDWARE MODULES, ACCESSORIES, SOFTWARE, INITIAL PROGRAMMING, AND TRAINING REQUIRED FOR A COMPLETE AND OPERATIONAL INTRUSION DETECTION SYSTEM.

MOTION DETECTOR

1. INCLUDE PRICING FOR THE FOLLOWING MOTION DETECTOR LOCATION: -CEILING IN CASHIER'S OFFICE (IF APPLICABLE)

SHEET NOTE

1. THIS DRAWING IS INTENDED TO COMMUNICATE DESIGN INTENT. AS PART OF SUBMITTAL PROCESS. INSTALLER MUST SUBMIT COMPLETE SHOP DRAWING SET DEPICTING FINAL DESIGN OF COMPETE SYSTEM.

CCTV INSTALLATION NOTES

1. PROVIDE SHOP DRAWINGS PRIOR ANY INSTALLATION OR PURCHASE ACTIVITIES. COMPONENT SPECIFICATION SCHEDULE ABOVE IS INCLUDED FOR REFERENCE. ALTERNATE SOLUTIONS OR MANUFACTURES PRODUCTS MAY BE PROPOSED. CUT SHEETS MUST BE SUBMITTED FOR ALL PRODUCTS PROPOSED, PRIOR TO PURCHASING ANY EQUIPMENT. SUBMIT A COMPLETE NETWORK DIAGRAM DEPICTING ALL CAMERAS, NETWORK SWITCHES, ETC., ALL COMPONENTS OF THE NETWORK FOR REVIEW AND APPROVAL BY NTI. NETWORK DIAGRAM SHOULD INCLUDE ALL LABELING INFORMATION FOR CAMERAS AND INFORMATION REGARDING IP ADDRESSING AND LICENSING REQUIREMENTS.
2. INSTALLER TO PROVIDE AND INSTALL ALL COMPONENTS FOR COMPLETE SYSTEM, INCLUDING ALL CABLING, TRANSCEIVERS, PATCH PANELS, NETWORK SWITCHES, CAMERAS, RECORDERS, VIDEO STORAGE AND VIDEO MANAGEMENT SOFTWARE.
3. CCTV SYSTEM TO HAVE COMPLETE SEPARATE DEDICATED NETWORK. ALL NETWORK EDGE SWITCHES AND CORE SWITCH TO BE PROVIDED AND INSTALLED AS PART OF SYSTEM, AND SHALL BE POWERED VIA UPS UNITS.
4. CAMERAS TO BE CONFIGURED TO RECORD ON MOTION - RECORD AT MINIMUM OF 15FPS AND MINIMUM RESOLUTION OF 20IR-704X240 NTSC. PROVIDE STORAGE CAPACITY FOR MINIMUM OF 30 DAYS OF VIDEO.
5. VIDEO MANAGEMENT SOFTWARE MUST INCLUDE "SMART PHONE" VIEWER APP CAPABILITY TO ALLOW FOR PASSWORD PROTECTED REMOTE VIEWING OF CAMERAS AND PLAYBACK OF RECORDED VIDEO VIA SMART PHONES & TABLETS. (IOS AND ANDROID COMPATIBLE).
6. PROVIDE A MINIMUM OF (2) HIGH RES MONITORS IN SECURITY ROOM OR WORK ROOM. CONFIGURE TO PROVIDE OVERALL VIEWING AND "POP UP" IMAGES TRIGGERED BY MOTION DETECTION.

CCTV EQUIPMENT NOTES

1. VERIFY CAMERA AND MINIDOME SKIN COLOR WITH OWNER / INTERIOR DESIGNER PRIOR TO ORDERING. ALL BLACK CAMERAS AND SKINS MAY BE DESIRED.
2. TYPICAL CABLE FOR THE INTERCOM SYSTEM: 2 CONDUCTORS, #22 AWG, SHIELDED STRANDED. CONTRACTOR TO USE MOST APPROPRIATE CABLE FOR INSTALLATION.
3. ALTERNATE MANUFACTURES MAY BE USED (SAMSUNG, TOSHIBA ARE APPROVED EQUALS). ALTERNATE PRODUCTS MUST BE EQUIVALENT OR BETTER WITH REGARD TO PERFORMANCE, FORM, FIT AND FUNCTION. SUBMIT CUT SHEET FOR REVIEW/APPROVAL FOR ALL PROPOSED PRODUCTS AND ARE SUBJUCT TO CHANGE BASE ON OWNERSHIP COMMENTS
4. SOME OF THE ABOVE LISTED PRODUCTS MAY NOT BE REQUIRED FOR THIS PROJECT AND ARE SUBJECT TO CHANGE BASED ON OWNERSHIP COMMENTS.
5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PRODUCTS, AS REQUIRED, TO FURNISH OWNER WITH COMPLETE SYSTEM.
6. AS MANUFACTURERS PART NUMBERS CAN CHANGE, CONTRACTOR IS RESPONSIBLE FOR VERIFYING CORRECT, CURRENT PART NUMBERS FOR PRODUCTS SPECIFIED.

CCTV/ALARM SYSTEM COMPONENT SCHEDULE

DESCRIPTION	MANUFACTURER	PART NUMBER
VIDEO MANAGEMENT SOFTWARE	AXIS	CAMERA STATION OR ADP-VMS (SUBMIT SHOP DRAWINGS/DESCRIPTION IF ADP-VMS SYSTEM IS PROPOSED)
HIGH RESOLUTION COLOR MONITORS	SAMSUNG	24" (ITEMIZE PRICE FOR ADDITIONAL MONITORS)
CAMERAS - FIXED INDOOR MINI DOME	AXIS	M3064-V
CAMERAS - FIXED OUTDOOR MINI DOME	AXIS	M3205-LVE
ALARM CONTROL PANEL	ADEMCO	VISTA-128B
ALARM KEYPAD	ADEMCO	6160
ALARM SYSTEM POWER SUPPLY	ADEMCO	AD12612
DOOR CONTACTS	SENTROL	1078C
INTERCOM BASE STATION	AIPHONE	LEF3L
INTERCOM SUB STATION	AIPHONE	LS-NVP/C
RELAY FOR DOOR RELEASE	AIPHONE	RYPA
POWER SUPPLY FOR BASE STATION	AIPHONE	PS-1225UL

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NTI JOB NO. 21D03090

Project :

HOLIDAY INN EXPRESS
THRUWAY PLAZA OF
ROCKLAND ASSOCIATES
CLARKSTOWN (NANUET)
ROCKLAND COUNTY, NY
10954

Issued for :

60% ARCH REVIEW	11.10.20
65% ARCH REVIEW	11.14.20
70% OWNER REV.	01.20.21

PROJECT NAME: L 19180 HOLIDAY INN EXPRESS & SUITES NANUET, NY
LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by : SVA

Checked by : JAV, MJB, AJD

Sheet Title : SECURITY DETAILS - TELECOM

Project No. : 2018.009

Sheet No. : T908

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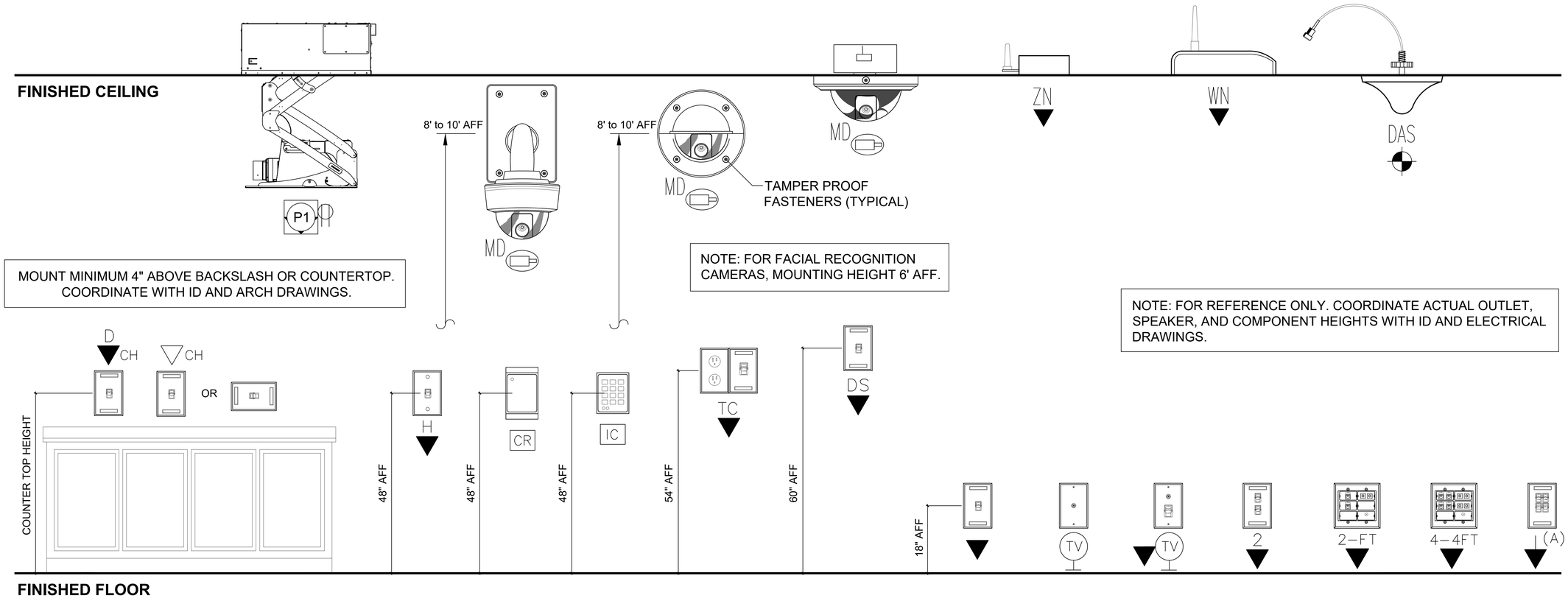

1 TYPICAL OUTLET & COMPONENT HEIGHTS
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Holiday Inn Express & Suites

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LOCATION: 19180
INN CODE: NYCNT
PROJECT: 32435
HOTEL: HOLIDAY INN EXPRESS & SUITES NANUET

Drawn by :
SVA

Checked by :
JAV, MJB, AJD

Sheet Title :
ELEVATION DETAILS - TELECOM

Project No. :
2018.009

Sheet No. :
T909

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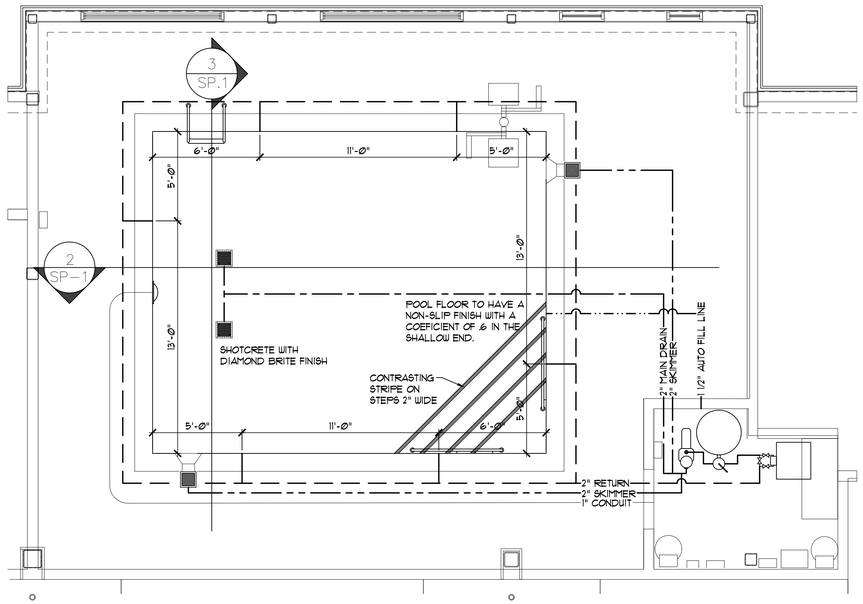
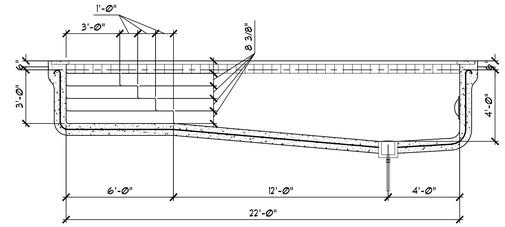


1 PLAN VIEW
SCALE: 1/4" = 1'-Ø"



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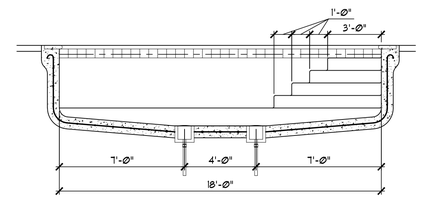

3 SECTION
SCALE: 1/4" = 1'-Ø"

POOL NOTES:

1. DEPTH MARKER NUMERALS ON THE EDGE OF THE DECK SHALL BE A LEAST 6" HIGH. MARKERS ON THE VERT. POOL WALL SHALL BE AT LEAST 4" HIGH. DEPTH MARKERS TO BE A COLOR CONTRASTING TO THEIR BACKGROUND.
2. ALL EQUIPMENT & PIPE LOCATIONS DIAGRAMMATIC ONLY.
3. POOL, MECH. & ELEC. CONTRACTOR COORDINATE LOCATION OF ALL EQUIP.
4. POOL CONTRACTOR SHALL BE RESPONSIBLE TO MEET ALL STATE & LOCAL CODES AND TO FURNISH ADDITIONAL DWG's & CALCULATIONS AS MAY BE REQUIRED.
5. ALL DOORS TO BE SELF CLOSING & EQUIPPED WITH SELF LATCHING HARDWARE.
6. POOL CONTRACTOR TO PROVIDE EQUIPMENT AS PER SCHEDULE OR APPROVED EQUAL. AIR TEST ALL PIPES, AND PROTECT POOL DURING CONSTRUCTION.
7. ALL ELECTRICAL WORK SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR.
8. POTABLE WATER FOR THIS PROJECT WILL BE PROVIDE BY LOCAL CITY JURISDICTION.
9. POOL SHELL & FIXTURES SHALL BE ELECTRICALLY GROUNDED IN ACCORDANCE WITH SECTION 680 N.E.C.
10. POOL, MECH. & ELEC. CONTRACTORS SHALL COORDINATE & VERIFY ALL LOCATIONS & CLEARANCES OF ALL POOL EQUIPMENT.
11. ALL PIPING MUST HAVE FLOW ARROWS.
12. PROVIDE A SPARE STRAINER BASKET FOR THE RECIRCULATION PUMPS.
13. POOL INSTALLER TO INSTALL POOL WALL, STAIRS, SKIMMERS, LIGHTS, WATER INLETS, DRAINS, COPING, CONCRETE AND ALL MATERIALS AND PRODUCTS ACCORDING TO THE MANUFACTURES SPECIFICATIONS AND ACCORDING TO ALL STATE AND LOCAL BUILDING CODES.
14. CLEAR DECK SHALL BE A MINIMUM OF 4'-Ø" IN WIDTH FROM THE EDGE OF THE POOL CUT
15. AN EMERGENCY PHONE AND DRINKING FOUNTAIN SHALL BE LOCATED JUST INSIDE THE MAIN ENTRANCE TO THE POOL AREA
16. GRADE OF CONCRETE - 3000 PSI MINIMUM PER ACI 318-110.
17. #4 REBAR - ASTM A615-12

NOTE:
THE HEATER MUST BE INTERLOCKED WITH THE FILTER PUMP SO THAT THE HEATER CANNOT FIRE UNLESS THE FILTER PUMP IS RUNNING

QUANITY	DESCRIPTION	MODEL	RATING	MANUFACTURE	POWER
1	POOL PUMP	WHISPERFLO WFE-4	1 HP	PENTAIR	230/1/60 20 A
1	POOL SKIMMER	BERUDA 506308		PENTAIR	
1	SPARE STAINER			PENTAIR	
1	CHLORINATOR	RAINBOW EROSION FEEDER HC-3315		PENTAIR	
	CHEMICAL CONTROLLER	INTELLI CHEM		PENTAIR	120V 20A GFCI
1	ACID METERING PUMP			PENTAIR	120V 20A GFCI
1	FLOW-METER	F-30300-P	RANGE TO BE 40-215	BLUE-WHITE	
1	POOL LIGHT	601102 300 WATT EQUIVALENT	INTELLIBRITE 5G	PENTAIR	120V 20A GFCI
1	POOL LIGHT NICHE	79206700		PENTAIR	
1	POOL FILTER	TR 100	30.5" DIA. 4.91 SQ. FT.	TRITON II	
1	POOL HEATER	ERN 152	150,000 BTU	LOCHINVAR	120V 20A GFCI
2	SUMPLESS DRAINS	SDX2		PARAMOUNT (HAYWARD)	
6	POOL RETURN INLET	540035 INSIDER DIRECTIONAL FITTING	9.6 GPM = 15.4 FPS	PENTAIR	
1	AUTO FILL VALVE	T40-F W/ 46550000 COVER PLATE		LETRO	
2	3 BEND STAIR RAIL	3HR-5-065		S.R. SMITH	
4	4" BRASS ANCHORS				
4	ESCUTCHEON PLATES				
	PRECAST COPING		SLIP RESISTANT COEFICIENT OF .6	FEDERAL STONE	
1	LEAF SKIMMER NET	81691		RYTE	
1	COMPLETE TEST KIT		K-2005	TAYLOR	
1	1 1/2" X 50' VACUUM HOSE	22500		POOL KING	
1	14" WIDE VACUUM HEAD	84-298		AQUAMAX	
1	WALL BRUSH	R500013		PENTAIR	
1	8' X 16' TELESCOPE NET TYPE POLE	R5000101L		PENTAIR	
1	LEAF RAKE	R121230		PENTAIR	
1	LIFE HOOK	R211016L		PENTAIR	
1	RING BUOY W/ROPE	JBW-24		JIM BUOY	
1	LIFT	RANGER LIFT F-RNGR2		AQUACREEK	

PIPING LEGEND:

- MAIN DRAIN
- SKIMMER
- RETURN INLET
- MAKE UP WATER
- VACUUM LINE
- WATER LEVEL

NOTE: 1. ALL PVC PIPES SHALL BE ASTM D1785/76 SCHEDULE 40.
2. ALL EXPOSED PIPING SHALL BE LABELED

POOL DATA 18' X 22'

POOL CIRCULATION:

SURFACE SQ. FT.	396
PERIMETER LIN. FT.	80'
H2O CAP. CU FT	1350
H2O CAP. GAL.	10098
FLOW RATE - GPM	58
TURN OVER HRS.	2.9

METHOD USED TO DETERMINE MIX DESIGN	FIELD
MIX DESCRIPTION	7.5 MIN BAG SHOTCRETE MIX
MIX CODE	91-SHOT
MIX USAGE	SHOTCRETE
SLUMP RANGE	1 - 2 INCHES
WATER/CEMENT RATIO	0.36
AIR CONTENT	5-8 PERCENT

MATERIAL	DESCRIPTION	
CEMENT	ASTM C150 TYPE I	705
FLYASH	ASTM C618 CLASS C	150
SLAG CEMENT	ASTM C989	
FINE AGGREGATE	INDOT #23 SAND	1805
COARSE AGGREGATE	PEA GRAVEL	800
WATER	POTABLE	308
MASTER BUILDERS	ASTM C494 TYPE A	
MASTERPAVE	WATER REDUCER	342 oz
MASTER BUILDES	ASTM C260	AS NEEDED FOR
MICROAIR	AIR ENTRAINMENT	PROPER AIR

MATERIAL	SPECIFIC GRAVITY	CUBIC FEET
CEMENT	3.15	3.59
FLYASH	2.75	0.87
SLAG CEMENT	2.85	0.00
FINE AGGREGATE	2.63	11.00
COARSE AGGREGATE	2.51	4.99
WATER	1.00	4.93
AIR		1.62
YIELD		27.00

4000 PSI SHOTCRETE MIX

FOLLOWING SIGNAGE SHALL BE POSTED AT THE ENTRANCE OF THE POOL AREA:

A NO PERSON HAVING ANY CONTAGIOUS DISEASE, OR TO THOSE WITH CONDITION THAT APPEAR CONTAGIOUS. PERSONS WITH EXCESSIVE SUNBURN, ABRASIONS WHICH HAVE NOT HEALED, CORN PLASTERS, BUNION PADS, ADHESIVE TAPE, RUBBER BANDAGES, OR OTHER BANDAGES OF ANY KIND ARE NOT PERMITTED. A PERSON UNDER THE INFLUENCE OF ALCOHOL OR EXHIBITING ERRATIC BEHAVIOR SHALL NOT BE PERMITTED IN THE FACILITY AREA.

B NO GLASS WITHIN POOL AREA

C NO PERSON MAY ENTER THE FACILITY AREA ALONE OR SWIM ALONE.

D NO PERSON SIXTEEN (16) YEARS OF AGE OR UNDER SHALL ENTER THIS AREA UNLESS ACCOMPANIED BY A PERSON WHO IS SEVENTEEN (17) YEARS OF AGE OR OLDER AND WHO IS RESPONSIBLE FOR THAT CHILD.

E NO FOOD, DRINK, OR TOBACCO ALLOWED OUTSIDE DESIGNATED AREAS

F NO RUNNING OR ROUGH PLAY ALLOWED

G NO STREET SHOES ALLOWED ON DECK

H ALL APPAREL WORN INTO THE FACILITY SHALL BE CLEAN

I ALL PERSONS MUST SHOWER BEFORE ENTERING POOL

J NO DIVING IN SHALLOW WATER

K NO ANIMALS ALLOWED IN AREA

LIGHT CALCULATIONS

POOL SURFACE SQ. FT. = 396
.5 WATTS PER SQ. FT. = 198 WATTS REQUIRED SUPPLIED 300 WATTS

NOTE:
I HEARBY CERTIFY THAT POOL IS DESIGNED STRUCTURAL LOADS FOR BOTH FULL AND EMPTY CONDITIONS.

THESE DRAWINGS ARE DIAGRAMMATIC FOR AN UNDERSTANDING OF THE JOB. CONTRACTOR SHALL FURNISH AND INSTALL ALL PARTS & PIECES A FULLY OPERATIONAL AND SERVICEABLE SYSTEM MEETING ALL STATE AND LOCAL CODES.

ALL METALLIC PARTS OF THE POOL STRUCTURE INCLUDING THE REBAR, COPING STONES, DECK METAL PARTS SHALL BE CONNECTED INTO A COMMON BONDING GRID WITH A SOLID COPPER CONDUCTOR NOT SMALLER THAN #8.

ARCHITECTURAL GROUP III
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Gilliana Pools
Aquatic Solutions
Concept to Completion

JOB TITLE

HOLIDAY INN

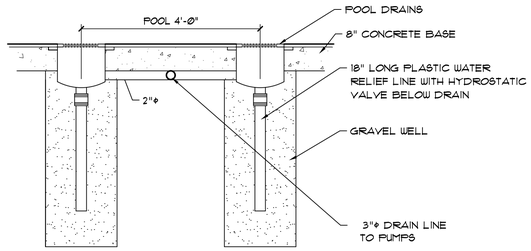
NANUET, NY
GILLIANA POOLS

JOB NO.
21102-01

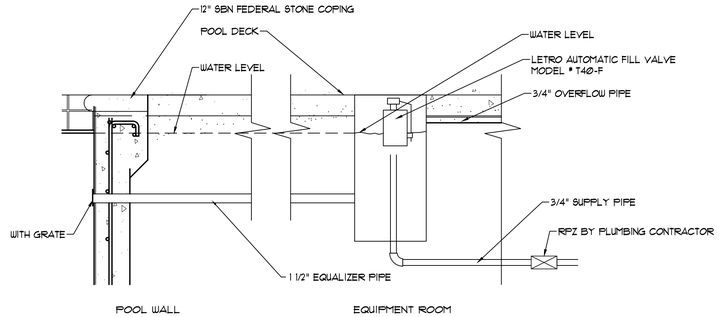
DATE
03/09/21

REVISIONS

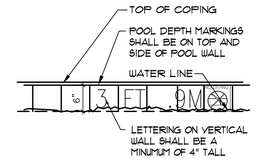
SHEET NO.
SP.1
POOL LAYOUT



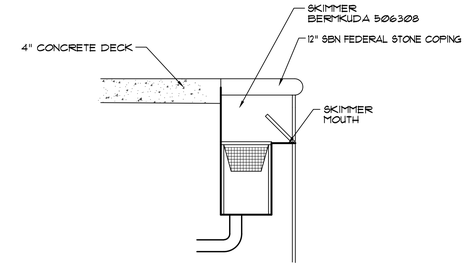
1 POOL MAIN DRAIN DETAIL
SCALE: N.T.S.



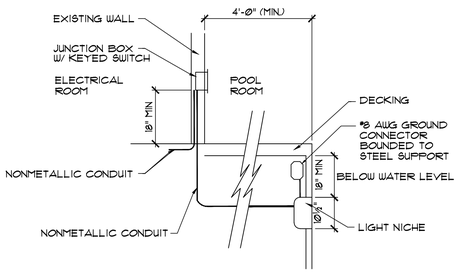
2 LETRO POOL FILL DETAIL
SCALE: N.T.S.



3 WALL DEPTH MARKERS
SCALE: N.T.S.



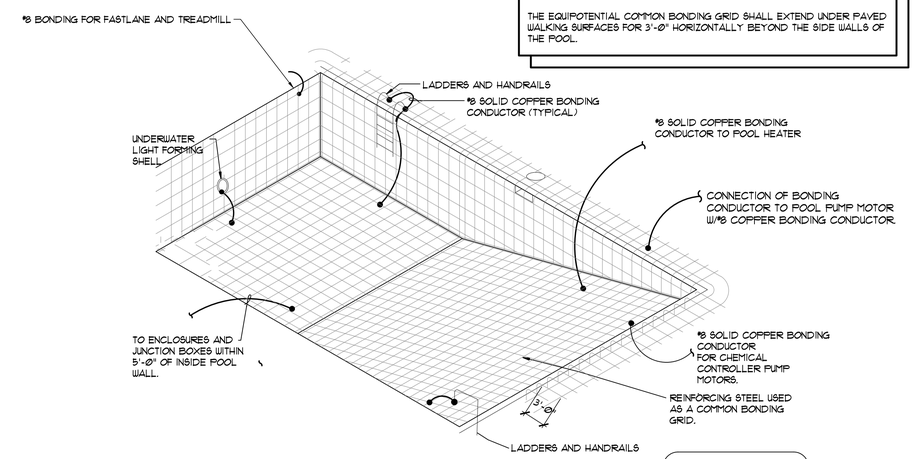
4 SKIMMER DETAIL
SCALE: N.T.S.



5 SECTION @ POOL LIGHT
SCALE: N.T.S. QUANITY TWO (2)

ALL METALLIC PARTS OF THE POOL STRUCTURE INCLUDING THE REBAR, COPING STONES, DECK METAL PARTS,DUCTWORK AND LUMINAIRES SHALL BE CONNECTED INTO A COMMON BONDING GRID WITH A SOLID COPPER CONDUCTOR NOT SMALLER THAN #8.

THE EQUIPOTENTIAL COMMON BONDING GRID SHALL EXTEND UNDER PAVED WALKING SURFACES FOR 3'-0" HORIZONTALLY BEYOND THE SIDE WALLS OF THE POOL.

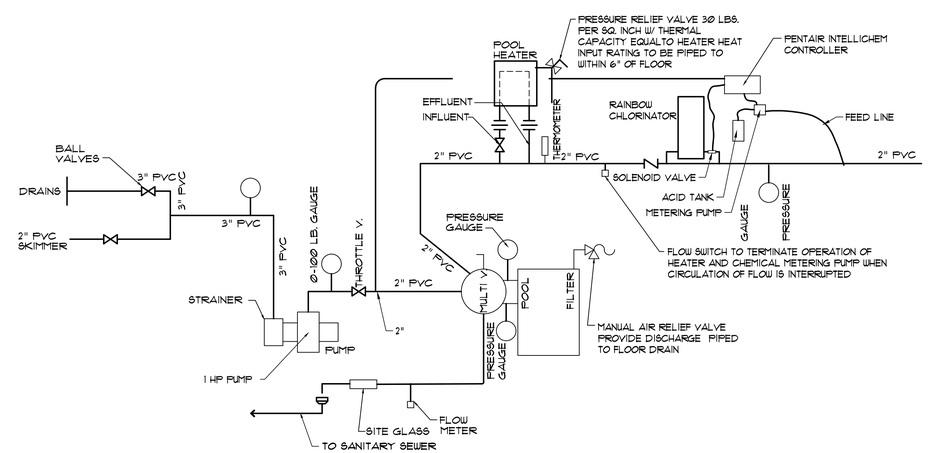


ALL POOL BONDING MUST BE IN CONFORMANCE WITH THE 2008 N.E.C.

7 TYPICAL POOL BONDING DETAIL
SCALE: N.T.S.

NOTE:
CONTRACTOR SHALL SUBMIT LETTER AS PART OF CLOSE OUT DOCUMENTS TO OWNER CERTIFYING BONDING IS INSTALLED PER NEC ART. 680-26.

THE BOND OF THIS CONDUCTOR WITH THE FORMING SHELL MUST BE ENCAPSULATED IN AN APPROVED POTTING COMPOUND.



11 POOL CIRCULATION SCHEMATIC
SCALE: N.T.S.

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SHEET NO.
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POOL DETAILS