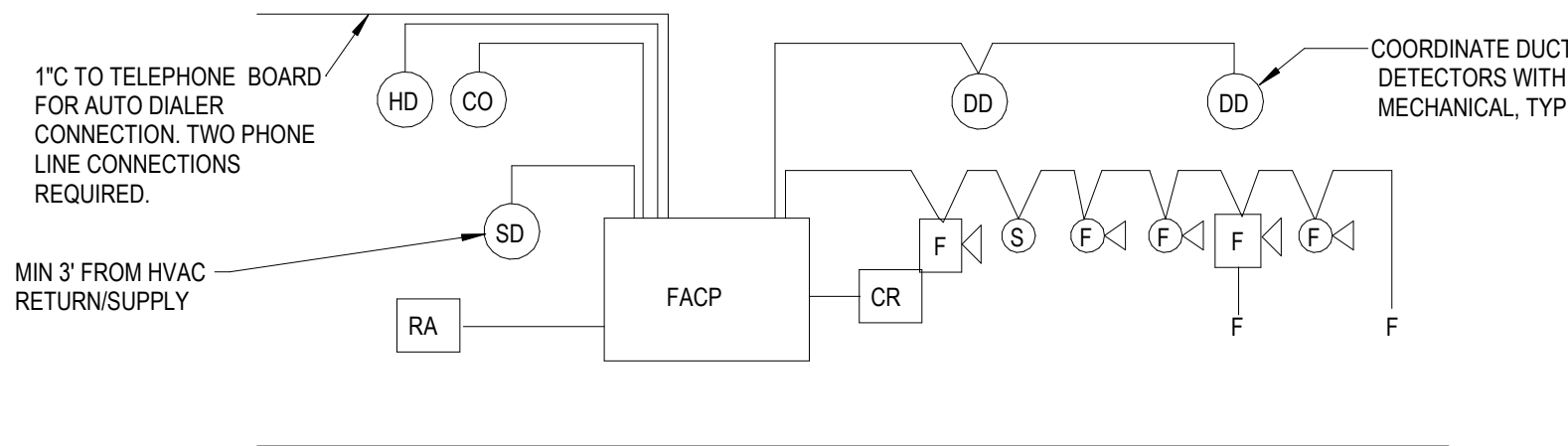


ELECTRICAL SYMBOLS LEGEND	
(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)	
SYMBOL	DESCRIPTION
	RECESSED CAN LIGHT FIXTURE
	FLUORESCENT OR LED FIXTURE
	TRACK LIGHTING
	EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	SWITCH, SINGLE POLE
	SWITCH, 3-WAY
	SWITCH, DIMMER, TO BE COMPATIBLE WITH LIGHT TYPE AND LOAD
	SINGLE POLE TIMER SWITCH (PARAGON MODEL #ET1100F)
	3-WAY TIMER SWITCH (PARAGON MODEL #ET1100F/3-WAY)
	SWITCH, MANUAL MOTOR
	SWITCH, OCCUPANCY SENSOR, WALL MOUNT
	SWITCH, OCCUPANCY SENSOR AND DIMMER COMBO, WALL MOUNT
	RECEPTACLE, DUPLEX
	RECEPTACLE, DUPLEX, ISOLATED GROUND
	RECEPTACLE, DUPLEX, GFI
	OCCUPANCY SENSOR, CEILING MOUNT
	POWER PACK FOR LIGHTING CONTROLS
	RECEPTACLE, DUPLEX, CEILING MOUNTED (FIELD VERIFY EXACT LOCATION) INSTALL FLUSH IN CEILING IN AREAS WITH FINISHED CEILINGS
	RECEPTACLE, DUPLEX FLUSH FLOOR
	RECEPTACLE, DUPLEX ISOLATED GROUND FLUSH FLOOR
	RECEPTACLE, SPECIAL FLUSH FLOOR
	RECEPTACLE, DOUBLE DUPLEX
	RECEPTACLE, SIMPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, SPECIAL
	RECEPTACLE, SIMPLEX
	DATA OUTLET, CAT 6 OR PER SPECS
	TELEPHONE OUTLET
	TELEVISION OUTLET, CONFIRM CABLE TYPE PRIOR TO INSTALLATION
	DATA OUTLET & PHONE OUTLET, CAT 6 OR PER SPECS
	JUNCTION BOX
	JUNCTION BOX (FLUSH FLOOR MOUNTED)
	GENERIC JUNCTION BOX OR PULL BOX AS APPLICABLE. SEE DRAWINGS FOR MORE SPECIFIC APPLICATION INFORMATION
	EQUIPMENT CONNECTION POINT (PROVIDED WITH EQUIPMENT)
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	HOME-RUN (WITH CIRCUIT NUMBER(S) WHERE APPLICABLE) CIRCUIT NUMBERS ARE ALSO SHOWN WITHOUT HOMERUN
	CIRCUIT, CONCEALED IN SLAB FLOOR
	CABLING/RACEWAY - CEILING OR WALL - SEE SPECS. FOR APPL CONDUIT/RACEWAY REQ'TS. (FULLY CONCEALED IN FINISHED AREAS, CONCEALED TO OVERHEAD STRUCTURE IN UNFIN. AREAS)
	CONDUIT SLEEVE
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	MOTOR
	TELEPOWER POLE (TUBE-STEEL CHASE FURNISHED BY OWNER, INSTALLED BY E.C.) SEE POWER PLANS FOR FURTHER INFORMATION
	PUSH BUTTON
	BUZZER
	INDICATES GROUNDING BY E.C. PER N.E.C. ARTICLE 250 MINIMUM
	TV BOX: PROVIDE POWER, CAT 6 AND COAX RECEPTACLES IN RECESSED 3-GANG BOX.

ABBREVIATIONS	
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY LIGHTING
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GR	GROUND
IG	ISOLATED GROUND
HD	HAND DRYER
LTG	LIGHTING
MAX	MAXIMUM
MCB	MECHANICAL CONTRACTOR
MFR	MAIN CIRCUIT BREAKER MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUG ONLY
NL	NIGHT LIGHT
PC	PLUMBING CONTRACTOR
PNLBD	PANELBOARD
RC	REFRIGERATION CONTRACTOR
RCPTS	RECEPTACLES
REF	REFERENCE
RH	RADIANT HEATER
RTU	ROOF TOP UNIT
SC	SECURITY CAMERA
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WP	WEATHER PROOF COVERPLATE
WR	WEATHER RESISTANT RECEPTACLE
XFMR	TRANSFORMER

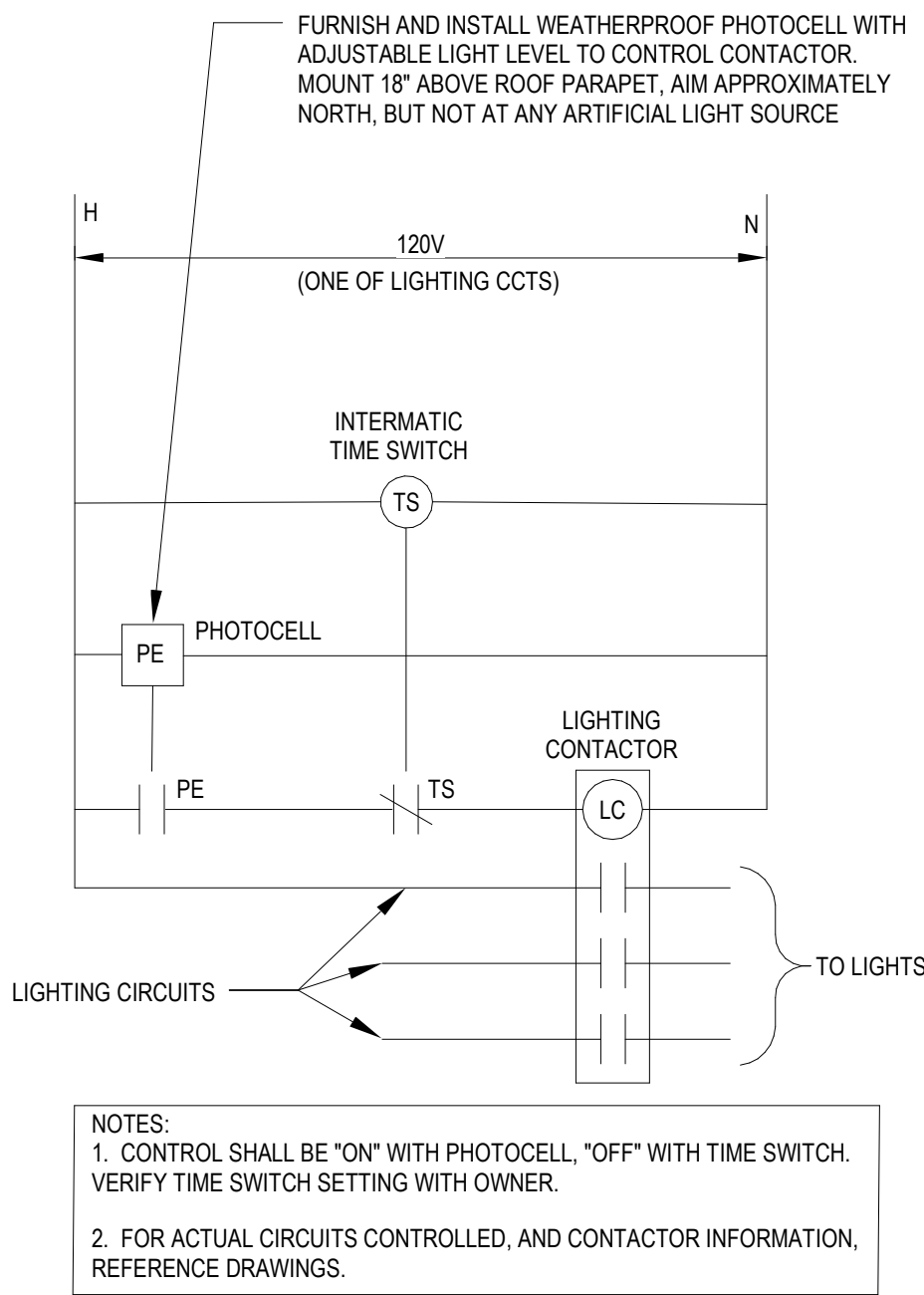
FIRE ALARM SYMBOLS LEGEND	
(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)	
SYMBOL	DESCRIPTION
	FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE.
	ADA COMPLIANT FIRE ALARM SPEAKER WITH STROBE LIGHT, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED SMOKE DETECTOR
	CEILING MOUNTED SMOKE DETECTOR/CARBON MONOXIDE COMBINATION UNIT
	DUCT MOUNTED SMOKE DETECTOR, FURNISHED AND CONNECTED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. CUTTING OF DUCT, INSTALLATION OF DETECTOR, AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR.
	CEILING MOUNTED HEAT DETECTOR
	SPRINKLER SYSTEM FLOW SWITCH
	SPRINKLER SYSTEM TAMPER SWITCH
	SMOKE DAMPER, FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
	MAGNETIC DOOR HOLDER, PROVIDED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A SMOKE DETECTOR WITHIN 5 FT OF BOTH SIDES OF DOORS TO LOCALLY ACTIVATE DOOR UPON SMOKE SIGNAL.
	FIRE ALARM REMOTE GRAPHIC ANNUNCIATOR
	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR.
	CARBON MONOXIDE DETECTOR
	ADA COMPLIANT FIRE ALARM STROBE LIGHT, UNLESS NOTED OTHERWISE.



- NOTES:
1. FACP SHALL HAVE A MINIMUM 24 HR BATTERY BACKUP.
 2. FACP SHALL BE CONNECTED TO A UL APPROVED CENTRAL STATION.
 3. FACP SHALL BE FULLY ANALOG ADDRESSABLE.
 4. ZONE PER NFPA 72 AND MANUFACTURER'S RECOMMENDATIONS WITH NO SINGLE ZONE EXCEEDING 15,000 SQUARE FEET PER FLOOR.
 5. FIRE ALARM ENGINEER TO PROVIDE DEFERRED SUBMITTAL CONTAINING EXACT QUANTITY AND DEVICE LOCATIONS. FIRE ALARM DEVICES ON THIS SET OF PLANS IS FOR REFERENCE ONLY.
 6. PROVIDE MULTI-TEMPORAL SOUNDING CAPABILITY AT ALL AUDIO DEVICES FOR EMERGENCY NOTIFICATION.
 7. THE FIRE ALARM SYSTEM MANUFACTURER SHALL PROVIDE NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER EXTENDERS AS REQUIRED.
 8. THE EVACUATION TONE IS REQUIRED TO BE THREE BEAT TEMPORAL PATTERN.
 9. ALL STROBES WITHIN THE SAME AREA SHALL BE SYNCHRONIZED.
 10. THE CIRCUIT FEEDING THE FIRE ALARM PANEL IS DEDICATED FOR THE FIRE ALARM ONLY. FACP BREAKER SHALL BE MARKED IN RED.
 11. FOR ALL DEVICES, PROVIDE 3/4" CONDUIT BACK TO FACP. NO PLENUM RATED CABLE SHALL BE ALLOWED UNLESS ALLOWED BY FIRE MARSHAL.
 12. CONTRACTOR SHALL INCLUDE IN THE BID CONTRACT FOR AN ADDITIONAL (5) ANNUNCIATION DEVICES, (2) PULL STATIONS, (2) SMOKE DETECTORS, (2) HEAT DETECTORS, AND RELOCATION OF (2) PULL STATIONS. THESE DISTANCES SHALL BE PRICED BASED ON 100 FT (EACH) FROM THE FACP. DEVICES SHALL NOT BE PURCHASED OR INSTALLED UNTIL DIRECTED BY OWNER OR ENGINEER.
 13. FIRE ALARM INSTALLER SHALL BE NICET CERTIFIED.

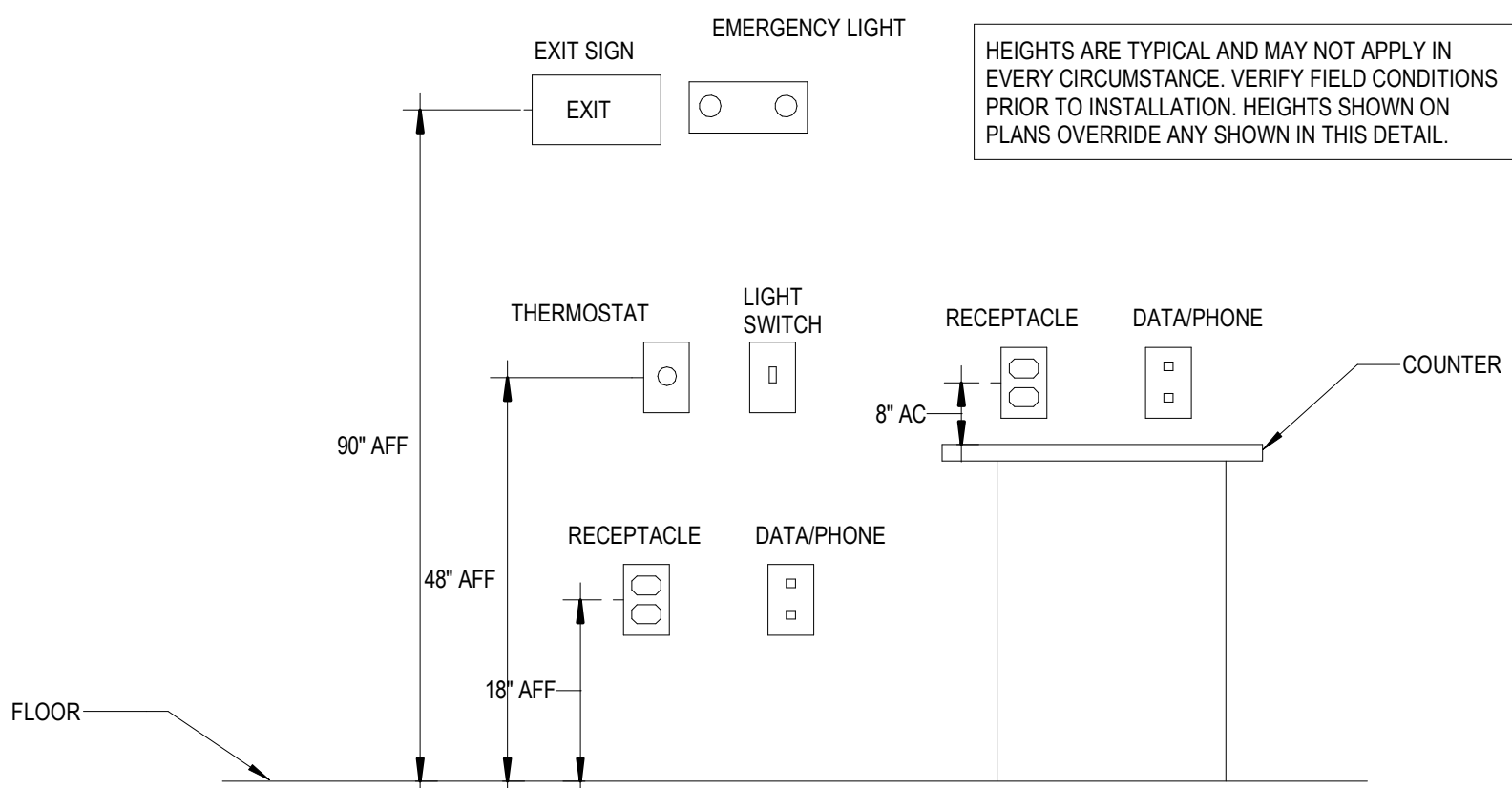
3 TYPICAL FIRE ALARM RISER

NTS



2 LIGHTING CONTACTOR

NTS



1 TYPICAL MOUNTING HEIGHTS

NTS

GENERAL POWER/LIGHTING NOTES	
A. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:	
A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING.	
B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAILS.	
C. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.	
B. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN ALL CONDUIT AND RACEWAYS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.	
C. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:	
A. SWITCHES +48"	
B. RECEPTACLES +18"	
C. VOICE/DATA +18" OR AS NOTED ON PLANS	
D. WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.	
E. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATIONS SCHEDULES.	
F. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR FINAL CONNECTION (15-FT MAXIMUM).	
G. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.	
H. PROVIDE HANDLE TIES ON ALL MULTIWIRED BRANCH CIRCUITS TO MEET NEC REQUIREMENTS.	
I. ALL EMERGENCY AND EXIT SIGN CIRCUITRY SHALL BE UNSWITCHED.	
J. PROVIDE 4'X4', 3/4" FIRE RATED PLYWOOD BACKBOARD WHERE SHOWN ON PLANS OR AS REQUIRED FOR DATA/PHONE, CATV, OR ALARMS. COORDINATE FINAL LOCATION WITH THE RESPECTIVE CONTRACTOR.	
K. PROVIDE SURGE PROTECTIVE DEVICE FOR ANY OWNER PROVIDED EQUIPMENT, SUCH AS ACCESS CONTROL SYSTEMS, COMMUNICATIONS SYSTEMS, DATA SYSTEMS, AND SECURITY SYSTEMS.	
L. GROUP SWITCHES ADJACENT TO EACH OTHER IN MULTI-GANG BOX. MOUNT SWITCHES AT SAME HEIGHT AS EACH OTHER AND OTHER DEVICES NEARBY FOR A CLEAN LOOK.	
M. DIMMER SWITCHES SHALL BE COMPATIBLE WITH LOAD IT'S SERVING. 0-10V LIGHT FIXTURES SHALL BE DIMMED WITH 0-10V DIMMER WITH CONTROL WIRING.	
N. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT FOR ANY MECHANICAL CONTROL, CABLING BETWEEN UNITS, CONTROLLERS, THERMOSTATS, ETC. COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR.	
O. LOW VOLTAGE CABLING IN WALLS OR WHEN EXPOSED SHALL ALWAYS BE ROUTED IN CONDUIT. HORIZONTAL CABLING THAT IS CONCEALED SHALL BE PER OWNER, AHJ, OR ENGINEER REQUIREMENTS.	

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