EN1: Energy Cost Budget Worksheet

NYC Buildings

Do Not Submit Separately. Must be incorporated in the drawing set.

Must be typewritten.

1 Location Information *Required for all applications.*

House No(s) 221 Street Name West 57th Street
Borough Manhattan Block 1029 Lot 14 BIN 1080870 CB No. 105
Work on Floor(s) SC3 thru 93 Apt/Condo No(s) n/a

2 Applicant Information *Required for all applications.*

Last Name McHugh First Name Christopher Middle Initial
Business Name AKF Group Business Telephone 646-758-0900
Business Address 1501 Broadway, Suite 700 Business Fax
City New York State NY Zip 10036 Mobile Telephone
E-Mail License Number 73130

Energy Model Inputs

NYS approved energy model software: eQUEST v3.64

Envelope	Proposed Design Input	Budget (Standard Design) Input
Above-grade wall U-factor	0.182	0.054
Below-grade wall U-factor	0.04	0.04
Roof construction U-factor	0.05	0.048
Exterior floor U-factor	0.04	0.04
Slab-on-grade construction (yes/no)	No	No
Window-to-gross wall ratio	0.405	0.397
Average fenestration assembly U-factor	0.411	0.508
Average fenestration assembly SHGC	0.314	0.4
Fixed shading devices (yes/no)	No	No
Automated movable shading devices (yes/no)	No	No
Lighting		
Average ambient lighting power density (W/SF)	0.8837	0.9271
Lighting occupant sensor controls (yes/no)	No	No
Automatic daylighting controls (yes/no)	No	No
Exterior lighting power (tradable surfaces) (kW)	6.00	6.10
Exterior lighting power (non-tradable surfaces) (kW)	55.56	55.56
Heating, Ventilating & Air Conditioning		
Refrigeration equipment type	Retail: VAV units w Air Cooled Chillers / BOH, Amenities: Pkgd VAV units w Water Cooled Condenser / Residential: PTHP units and Heat Recovery Ventilation Units	Retail: Pkgd VAV units w Air Cooled Condenser / BOH, Amenities: VAV units with Chillers / Residential: PTHP units and Heat Recovery Ventilation Units
Heating equipment type	Retail: Boilers / Amenities, BOH: Pkgd units w Heat Pump Heating / Residential: PTHP units, HW baseboard and Heat Recovery Ventilation Units	Retail: Boilers / Amenities, BOH: Pkgd units with Heat Pump Heating / Residential: PTHP units, HW baseboard and Heat Recovery Ventilation Units
Demand controlled ventilation (yes/no)	No	No
Economizer type (air or water)	Air	Air
Domestic hot water heating source	Retail - Electric / Residential - Hot Water	Retail - Electric / Residential - Hot Water

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Unregulated Energy	Proposed Design Input	Budget (Standard Design) Input
Average Receptacle equipment power density (W/SF)	0.397	0.397
Average Unregulated lighting power density (W/SF)	N/A	N/A
Other process loads	Elevators - 209 kW fluctuating with anticipated occupancy throughout day	Elevators - 209 kW fluctuating with anticipated occupancy throughout day

Energy Cost Budget Conformance	Proposed Design Output	Budget (Standard Design) Output
Annual Regulated Energy Cost ($)	3,278,658	3,573,947
Annual Regulated Energy Use (BTU/GSF)	70,116	71,769
Annual Regulated Energy Cost Per Sq. Ft. ($/GSF)	2.746	2.993

Energy Model Output Breakdown

Energy Use Breakdown	Proposed Design Output (% BTU/yr)	Budget (Standard Design) Output (% BTU/yr)
Heating	24	33
Cooling	12	15
Heat rejection	0	0
Fans	15	9
Pumps	16	11
Lighting	16	15
Unregulated loads (e.g., plug loads, elevators, escalators, kitchen, process equipment, exterior lighting)	16	16
Total	100%	100%

Falsification of any statement is a misdemeanor under § 26-124 of the NYC Administrative Building Code and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

Name (please print)
Christopher McHugh

Signature

STATE OF NEW YORK · CHRISTOPHER O. McHUGH · No. 073130 · LICENSED PROFESSIONAL ENGINEER

P.E. / R.A. Seal *(apply seal, then sign and date over seal)*

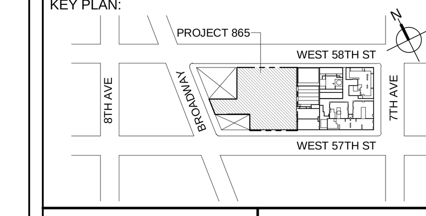
01/11

	Inspection/Test	Periodic (minimum)	Reference Standard (See ECC Chapter 6) or Other Criteria	ECC or Other Citation	This Inspection Required YES	NO
IIA	**Envelope Inspections**					
IIA1	**Protection of exposed foundation insulation:** Insulation shall be visually inspected to verify proper protection where applied to the exterior of basement or cellar walls, crawl-space walls and/or the perimeter of slab-on-grade floors.	As required during foundation work and prior to backfill	Approved construction documents	303.2.1; ASHRAE 90.1 – 5.8.1.7	●	○
IIA2	**Insulation placement and R-values:** Installed insulation for each component of the conditioned space envelope and at junctions between components shall be visually inspected to ensure that the R-values are marked, that such R-values conform to the R-values identified in the construction documents and that the insulation is properly installed. Certifications for unmarked insulation shall be similarly visually inspected.	As required to verify continuous enclosure while walls, ceilings and floors are open	Approved construction documents	303.1, 303.1.1, 303.1.2, 502.1, 502.2; ASHRAE 90.1 –5.5, 5.6 or 11; 5.8.1	●	○
IIA3	**Fenestration thermal values and product ratings:** U-factors and SHGC values of installed fenestration shall be visually inspected for conformance with the U-factors and SHGC values identified in the construction drawings by verifying the manufacturer's NFRC labels or, where not labeled, using the ratings in ECC Tables 303.1.3(1), (2) and (3). Where ASHRAE 90.1 is used, visible light transmittance values shall also be verified.	As required during installation	Approved construction documents; NFRC 100, NFRC 200	303.1, 303.1.3, 502.3; ASHRAE 90.1 –5.5; 5.6 or 11; 5.8.2	●	○
IIA4	**Fenestration and door assembly product ratings for air leakage:** Windows and sliding or swinging door assemblies, except site-built windows and/or doors, shall be visually inspected to verify that installed assemblies are listed and labeled by the manufacturer to the referenced standard. For curtain wall, storefront glazing, commercial entrance doors and revolving doors, the testing reports shall be reviewed to verify that the installed assembly complies with the standard cited in the approved plans.	As required during installation; prior to final construction inspection	NFRC 400, AAMA/WDMA/CSA 101/I.S.2/A440 ASTM E283; ANSI/DASMA 105	502.4; ASHRAE 90.1 –5.4.3.2	●	○
IIA5	**Fenestration areas:** Dimensions of windows, doors and skylights shall be verified by visual inspection.	Prior to final construction inspection	Approved construction documents	502.3; ASHRAE 90.1 – 5.5.4, 5.6 or 11	●	○
IIA6	**Sealing:** Openings and penetrations in the building envelope, including site-built fenestration and doors, shall be visually inspected to verify that a continuous air barrier around the envelope forms an air-tight enclosure. The progress inspector shall visually inspect to verify that materials and/or assemblies have been tested and meet the requirements of the respective standards, or that the building is tested and meets the requirements of the standard, in accordance with the standard(s) cited in the approved plans.	As required during construction	Approved construction documents; ASTM E2178, ASTM E2357, ASTM E1677, ASTM E779, ASTM E283.	502.4.3, 502.4.7; ASHRAE 90.1 – 5.4.3.1	●	○
IIA7	**Projection factors:** Where the energy analysis utilized a projection factor > 0, the projection dimensions of overhangs, eaves or permanently attached shading devices shall be verified for conformance with approved plans by visual inspection.	Prior to final construction inspection	Approved construction documents, including energy analysis	502.3; ASHRAE 90.1 – 5.5.4, 5.6 or 11	○	●
IIA8	**Loading dock weatherseals:** Weatherseals at loading docks shall be visually verified.	Prior to final construction inspection	Approved construction documents	502.4.5; ASHRAE 90.1 – 5.4.3.3	●	○
IIA9	**Building entrance vestibules:** Required entrance vestibules shall be visually inspected for proper operation.	Prior to final construction inspection	Approved construction documents	502.4.6; ASHRAE 90.1 – 5.4.3.4	●	○
IIB	**Mechanical and Service Water Heating Inspections**					
IIB1	**Fireplaces:** Provision of combustion air and tight-fitting fireplace doors shall be verified by visual inspection.	Prior to final construction inspection	Approved construction documents; ANSI Z21.60 (see also MC 904), ANSI Z21.50	303.1.5; BC 2111; MC Chapters 7, 9; FGC Chapter 6	○	●
IIB2	**Outdoor air intakes and exhaust openings:** Dampers for stair and elevator shaft vents and other outdoor air intakes and exhaust openings integral to the building envelope shall be visually inspected to verify that such dampers, except where permitted to be gravity dampers, comply with approved construction drawings. Manufacturer's literature shall be reviewed to verify that the product has been tested and found to meet the standard.	As required during installation	Approved construction documents; AMCA 500D	502.4.4; ASHRAE 90.1 – 6.4.3.4	●	○
IIB3	**HVAC, service water heating and pool equipment sizing and performance:** Equipment sizing, efficiencies and other performance factors of all major equipment units, as determined by the applicant of record, and no less than 15% of minor equipment units, shall be verified by visual inspection and, where necessary, review of manufacturer's data. Pool heaters and covers shall be verified by visual inspection.	Prior to final plumbing and construction inspection	Approved construction documents	503.2, 504.2, 504.7; ASHRAE 90.1 – 6.3, 6.4.1, 6.4.2, 6.8; 7.4, 7.8	●	○
IIB4	**HVAC system controls and economizers and service hot water system controls:** No less than 20% of each type of required controls and economizers shall be verified by visual inspection and tested for functionality and proper operation. Such controls shall include, but are not limited to: ▪ Thermostatic ▪ Set point overlap restriction ▪ Off-hour ▪ Shutoff damper ▪ Snow-melt system ▪ Demand control systems ▪ Outdoor heating systems ▪ Zones ▪ Economizers ▪ Air systems ▪ Variable air volume fan ▪ Hydronic systems ▪ Heat rejection equipment fan speed ▪ Complex mechanical systems serving multiple zones ▪ Ventilation ▪ Energy recovery systems ▪ Hot gas bypass limitation ▪ Temperature ▪ Service water heating ▪ Hot water system ▪ Pool heater and time switches ▪ Exhaust hoods ▪ Radiant heating systems. **Controls with seasonally dependent functionality:** Controls whose complete operation cannot be demonstrated due to prevailing weather conditions typical of the season during which progress inspections will be performed shall be permitted to be signed off for the purpose of a Temporary Certificate of Occupancy with only a visual inspection, provided, however, that the progress inspector shall perform a supplemental inspection where the controls are visually inspected and tested for functionality and proper operation during the next immediate season thereafter. The owner shall provide full access to the progress inspector within two weeks of the progress inspector's request for such access to perform the progress inspection. For such supplemental inspections, the Department shall be notified by the approved progress inspection agency of any unresolved deficiencies in the installed work within 180 days of such supplemental inspection.	After installation and prior to final electrical and construction inspection, except that for controls with seasonally dependent functionality, such testing shall be performed before sign-off for issuance of a Final Certificate of Occupancy	Approved construction documents, including control system narratives; ASHRAE Guideline 1: The HVAC Commissioning Process where applicable	503.2.4, 503.2.5.1, 503.2.11, 503.3, 503.4, 504.3, 504.6, 504.7; ASHRAE 90.1 – 6.3, 6.4, 6.5, 6.7.2.4, 7.4.4, 7.4.5	●	○
IIB5	**Duct, plenum and piping insulation and sealing:** Installed duct and piping insulation shall be visually inspected to verify proper insulation placement and values. Joints, longitudinal and transverse seams and connections in ductwork shall be visually inspected for proper sealing.	After installation and prior to closing shafts, ceilings and walls	Approved construction documents; SMACNA Duct Construction Standards, Metal and Flexible	503.2.7, 503.2.8, 504.5; ASHRAE 90.1 – 6.3, 6.4.4.2, 6.8.2, 6.8.3; 7.4.3	●	○
IIB6	**Air leakage testing for high-pressure duct systems:** For duct systems designed to operate at static pressures in excess of 3 inches w.g. (746 Pa), representative sections, as determined by the progress inspector, totaling at least 25% of the duct area, per ECC 503.2.7.1.3, shall be tested to verify that actual air leakage is below allowable amounts.	After installation and sealing and prior to closing shafts, ceilings and walls	Approved construction documents; SMACNA HVAC Air Duct Leakage Test Manual	503.2.7.1.3; ASHRAE 90.1 – 6.4.4.2	●	○
IIC	**Electrical Power and Lighting Systems**					
IIC1	**Electrical metering:** The presence and operation of individual meters or other means of monitoring individual apartments shall be verified by visual inspection for all apartments.	Prior to final electrical and construction inspection	Approved construction documents	505.7	●	○
IIC2	**Lighting in dwelling units:** Lamps in permanently installed lighting fixtures shall be visually inspected to verify compliance with high-efficacy requirements.	Prior to final electrical and construction inspection	Approved construction documents	505.5.3	●	○
IIC3	**Interior lighting power:** Installed lighting shall be verified for compliance with the lighting power allowance by visual inspection of fixtures, lamps, ballasts and transformers.	Prior to final electrical and construction inspection	Approved construction documents	505.5; ASHRAE 90.1 –9.1, 9.2, 9.5, 9.6; 1RCNY §101-07(c)(3)(v)(C)4	●	○
IIC4	**Exterior lighting:** Installed lighting shall be verified for compliance with source efficacy and/or the lighting power allowance by visual inspection of fixtures, lamps, ballasts and relevant transformers.	Prior to final electrical and construction inspection	Approved construction documents	505.6; ASHRAE 90.1 – 9.4.4, 9.4.5; 1RCNY §101-07(c)(3)(v)(C)4	●	○
IIC5	**Lighting controls:** Each type of required lighting controls, including: ▪ occupant sensors ▪ manual interior lighting controls ▪ light-reduction controls ▪ automatic lighting shut-off ▪ daylight zone controls ▪ sleeping unit controls ▪ exterior lighting controls shall be verified by visual inspection and tested for functionality and proper operation.	Prior to final electrical and construction inspection	Approved construction documents, including control system narratives	505.2, 505.2.2.2; ASHRAE 90.1 – 9.4.1, 9.4.1.2 (as modified by section ECC A102)	●	○
IIC6	**Exit signs:** Installed exit signs shall be visually inspected to verify that the label indicates that they do not exceed maximum permitted wattage.	Prior to final electrical and construction inspection	Approved construction documents	505.4; ASHRAE 90.1 – 9.4.3	●	○
IIC7	**Tandem wiring:** Tandem wiring shall be tested for functionality.	Prior to final electrical and construction inspection	Approved construction documents	505.3; ASHRAE 90.1 – 9.4.2	●	○
IIC8	**Electric motors (including but not limited to fan motors):** Where required by the construction documents for energy code compliance, motor listing or labels shall be visually inspected to verify that they comply with the respective energy requirements in the construction documents.	Prior to final electrical and construction inspection	Approved construction documents	503.2.10; ASHRAE 90.1 – 10.4	●	○
IID	**Other**					
IID1	**Maintenance information:** Maintenance manuals for mechanical, service hot water and electrical equipment and systems requiring preventive maintenance shall be reviewed for applicability to installed equipment and systems before such manuals are provided to the owner. Labels required for such equipment or systems shall be inspected for accuracy and completeness.	Prior to sign-off or issuance of Final Certificate of Occupancy	Approved construction documents, including electrical drawings where applicable; ASHRAE Guideline 4: Preparation of Operating and Maintenance Documentation for Building Systems	303.3, 503.2.9.3; ASHRAE 90.1 – 4.2.2.3, 6.7.2.2, 8.7.2	●	○

COMPLIANCE WITH ECCC-NYS NOTE:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2011 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, USING THE ASHRAE 90.1 ALTERNAIVE (LISTED IN NYCECC, 501.2).

KEY PLAN:



PROJECT NORTH

TRUE NORTH

DEVELOPER:
EXTELL DEVELOPMENT COMPANY
805 THIRD AVENUE, 7TH FLOOR
New York, NY 10022 USA
TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: Base Building Shell & Core
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: Residential
Rottet Architecture and Design Studio, PLLC
298 Fifth Ave, 7th Floor
New York, NY 10001
TEL: 646 998 7000 FAX:

ARCHITECT OF RECORD: Base Building Shell, Core, & Residential
AAI ARCHITECTS, P.C.
401 Wellington St. W., 3rd Floor
Toronto, ON M5V 1E7 Canada
TEL: 416 967 1500 FAX: 416 967 7150

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MEP ENGINEERS:
AKF GROUP
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New York, NY 10006 USA
TEL: 212 354 5656 FAX: 212 354 5668

GEOTECHNICAL ENGINEERS:
Langan Engineering & Environmental Services
21 Penn Plaza - 360 West 31st Street, 8th Floor
New York, NY 10001-2727
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CODE CONSULTANTS:
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100 Church Street
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TEL: 212 385 1818 FAX: 212 385 1911

CURTAINWALL CONSULTANT:
AJLP Consulting
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New York, NY 10013
TEL: 212 757 5659 FAX: 646 219 8508

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39 West 37th Street, 12A
New York, NY 10018
TEL: 212 759 6462 FAX: 212 759 6540

No.	DESCRIPTION	DATE
1	DOB SUBMISSION	19 DEC 2014
2	DOB SUBMISSION	27 APR 2015
3	DOB AMENDMENT 2	18 SEP 2015

0 4' - 0" 8' - 0" 16' - 0"

NOT FOR BID / CONSTRUCTION

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT: AKF
ONE LIBERTY PLAZA, 165 BROADWAY, 22nd FLOOR
NEW YORK, NY 10006
T: 212.354.5656 F: 212.354.5668
Arlington / Boston / Mexico City / Minneapolis / New York
Philadelphia / Princeton / Puebla / Rochester / Stamford

PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

ENERGY CODE COMPLIANCE & TR-8 ENERGY CODE PROGRESS INSPECTION

SEAL & SIGNATURE:

STATE OF NEW YORK · CHRISTOPHER O. McHUGH · No. 073130 · LICENSED PROFESSIONAL ENGINEER

DATE:	12/16/14
PROJECT No:	Y130747-000
DRAWN:	Author
CHK:	Checker
SCALE:	12" = 1'-0"
REV:	1
DWG No:	EN-100.01
DOB PAGE No:	1 of 1

DOB EMPLOYEE STAMP:

DOB B-SCAN:

ELECTRICAL SYMBOLS LIST

LIGHTING SYMBOLS

- CABLE MOUNTED LED INDUSTRIAL FLOODLIGHT — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'; NS = NOT SWITCHED; NL = NIGHT LIGHT
- SIMILAR TO ABOVE, EXCEPT SUPPLIED WITH 90-MINUTE EMERGENCY BACKUP BATTERY PACK — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- CABLE MOUNTED LED INDUSTRIAL FLOODLIGHT ON EMERGENCY LIFE SAFETY CIRCUIT — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- WALL MOUNTED LED LIGHT FIXTURE — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'; NS = NOT SWITCHED; NL = NIGHT LIGHT
- FLUORESCENT STRIP FIXTURE-TYPE AS NOTED — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- SIMILAR TO ABOVE, EXCEPT SUPPLIED WITH 90-MINUTE EMERGENCY BACKUP BATTERY PACK — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- UNDERCABINET LIGHT FIXTURE — 'X' = FIXTURE TYPE
- RECESSED CEILING MOUNTED FIXTURE — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- SIMILAR TO ABOVE, EXCEPT SUPPLIED WITH 90-MINUTE EMERGENCY BACKUP BATTERY PACK — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- WALL MOUNTED LIGHT FIXTURE — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- SIMILAR TO ABOVE, EXCEPT SUPPLIED WITH 90-MINUTE EMERGENCY BACKUP BATTERY PACK — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- ACCENT LIGHT OR WALL WASHER — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- SIMILAR TO ABOVE, EXCEPT SUPPLIED WITH 90-MINUTE EMERGENCY BACKUP BATTERY PACK — 'X' = FIXTURE TYPE; 'a' = CONTROLLED BY SWITCH 'a'
- CEILING MOUNTED EXIT LIGHT; TYPE 'X' - DIRECTIONAL ARROWS WHERE INDICATED - SHADED AREAS INDICATE ILLUMINATED FACE/FACES
- WALL MOUNTED EXIT LIGHT; TYPE 'X' - DIRECTIONAL ARROWS WHERE INDICATED - SHADED AREAS INDICATE ILLUMINATED FACE/FACES
- EMERGENCY BATTERY LIGHT UNIT — 'X' = FIXTURE TYPE
- REMOTE LIGHT HEADS FOR EMERGENCY BATTERY LIGHT UNIT TYPE AS NOTED
- LIGHT TRACK-TYPE 'A' WITH TRACK MOUNTED FIXTURE TYPE 'B'
- EXTERIOR BOLLARD LIGHT FIXTURE — 'X' = FIXTURE TYPE
- EXTERIOR LIGHTING FIXTURE (BRACKET TYPE) — 'X' = FIXTURE TYPE

ALL EXIT SIGNS TO BE TYPE: LITHONIA LIGHTING LRP (LRP-W) ATLITE AUX SERIES (AUX40RB) OR APPROVED EQUAL

ALL EXTERIOR EXIT SIGNS TO BE TYPE: ATLITE X SERIES (XLAS-8SR1-X)

ARCHITECT TO COORDINATE LETTERS, BACKGROUNDS, AND FINISH OF EXIT SIGNS. ALL EXIT SIGNS REQUIRE RED LETTERING. ALL EXTERIOR EXIT SIGNS REQUIRE 8" LETTERS. ALL EXIT SIGNS TO BE 277V, SINGLE POINT OF CONNECTION.

POWER SYMBOLS

- SINGLE POLE SWITCH — 2 = DOUBLE POLE; 3 = THREE-WAY; 4 = FOUR-WAY; a = CONTROLLING OUTLET 'a'; D = DOOR; K = KEY OPERATED; MO = MOMENTARY CONTACT; T = TIME SWITCH; P = PILOT LIGHT; 3P = THREE-WAY PILOT LIGHT; VS = VACANCY SENSOR
- DISCONNECT SWITCH - TOGGLE TYPE WITH THERMAL OVERLOAD - 277V HP RATED
- DISCONNECT SWITCH - TOGGLE TYPE MOTOR RATED, 20A, 1P, U.O.N.
- WALL DIMMER - TYPE 'A' NUMBER INDICATES WATTAGE RATING
- OCCUPANCY SENSOR, CEILING MOUNTED
- OCCUPANCY SENSOR, WALL MOUNTED
- INTENSITY CONTROL
- PHOTO CONTROL SWITCH
- TIME CLOCK - TYPE 'A'
- TRANSFORMER
- 20A, 125V DUPLEX RECEPTACLE - FLUSH WALL MOUNTED — TP = TAMPER PROOF; XP = EXPLOSION PROOF; RC = RECESSED
- 20A, 125V QUADRUPLEX RECEPTACLE - FLUSH WALL MOUNTED
- 20A, 125V ISOLATED GROUND, DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED. CONTROLLED FROM WALL SWITCH 'a'
- 20A, 125V DUPLEX RECEPTACLE FLUSH WALL MOUNTED. GFI TYPE
- 20A, 125V EMERGENCY DUPLEX RECEPTACLE, FLUSH WALL MOUNTED
- SINGLE RECEPTACLE - FLUSH WALL MOUNTED

a	=	NEMA 5-15R, 1P		k	=	NEMA L5-30R, 1P
b	=	NEMA 5-20R, 1P		l	=	NEMA L6-20R, 1P
c	=	NEMA 5-30R, 1P		m	=	NEMA L6-30R, 1P
d	=	NEMA 5-50R, 1P		n	=	NEMA L6-20R, 1P
e	=	NEMA 6-15R, 1P		o	=	NEMA L8-30R, 1P
f	=	NEMA 6-20R, 1P		p	=	NEMA L14-20R, 1P
g	=	NEMA 6-30R, 1P		q	=	NEMA L14-30R, 1P
h	=	NEMA 6-50R, 1P		r	=	NEMA L14-20R, 1P
i	=	NEMA L5-15R, 1P		s	=	NEMA L14-30R, 1P
j	=	NEMA L5-20R, 1P		t	=	NEMA L6-30R, 1P

- SINGLE ISOLATED RECEPTACLE
- COMBINATION WALL SWITCH AND DUPLEX RECEPTACLE - FLUSH WALL MOUNTED IN SINGLE BOX
- 20A, 125V DUPLEX RECEPTACLE SURFACE MOUNTED
- 20A, 125V SURGE SUPPRESSION DUPLEX RECEPTACLE, FLUSH WALL MOUNTED
- FLUSH FLOOR MOUNTED JUNCTION BOX OR POKE-THRU FOR ELECTRIFIED FURNITURE POWER FEED. C = VOICE/DATA FEED
- 20A, 125V DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
- 20A, 125V QUADRUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
- SPECIAL PURPOSE RECEPTACLE - FLUSH WALL MOUNTED — A = INDICATES TYPE
- SPECIAL PURPOSE RECEPTACLE - FLUSH FLOOR MOUNTED — A = INDICATES TYPE
- PLUG-IN SURFACE METAL RACEWAY - LETTER INDICATES TYPE - WITH SPECIAL PURPOSE RECEPTACLES WHERE INDICATED
- PEDESTAL MOUNTED 20A, 125V DUPLEX RECEPTACLE
- PEDESTAL MOUNTED 20A, 125V QUADRUPLEX RECEPTACLE
- PEDESTAL MOUNTED JUNCTION BOX OR POKE-THRU FOR ELECTRIFIED FURNITURE POWER FEED
- PEDESTAL MOUNTED SPECIAL PURPOSE RECEPTACLE LETTER INDICATES TYPE
- PEDESTAL MOUNTED COMBINATION VOICE/DATA & POWER OUTLET
- HOMERUN-NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY. 2#12+1#12G-3/4"C FOR ONE CKT. HOMERUN, U.O.N. 3#12+1#12G-3/4"C FOR TWO CKT. HOMERUN, U.O.N. 4#12+1#12G-3/4"C FOR THREE CKT. HOMERUN, U.O.N.
- HOMERUN - NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY. - TEXT WHERE USED INDICATED CIRCUIT NUMBERS AND WIRE SIZES FOR REFERENCE ONLY. (PANEL NAME)#(CIRCUIT NUMBER(S)) (I-#HOT CONDUCTOR, (I-#NEUTRAL, (I-#GROUND) — PANEL#L3,3,5; 3#12, 1#12, 1#12
- DIMMER ZONE HOMERUN
- MOTOR CONTROLLER
- COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED
- UNFUSED DISCONNECT SWITCH SWITCH AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED
- FUSED DISCONNECT SWITCH; SWITCH AMPS/FUSE AMPS/ # OF POLES, VOLTAGE RATING AS REQUIRED
- ENCLOSED CIRCUIT BREAKER TRIP AMPS/# OF POLES, VOLTAGE RATING AS REQUIRED — NA = NON-AUTOMATIC
- SURFACE MOUNTED LIGHTING PANELBOARD
- FLUSH MOUNTED LIGHTING PANELBOARD
- SURFACE MOUNTED POWER PANELBOARD
- FLUSH MOUNTED POWER PANELBOARD
- SURFACE MOUNTED POWER DISTRIBUTION PANELBOARD
- CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION — RAD = RADIATOR ACTUATOR; SH = WINDOW SHADES
- FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
- FLUSH FLOOR MOUNTED JUNCTION BOX
- PULLBOX
- DROP CORD RECEPTACLE
- POWER POLE
- SPECIAL POWER POLE
- JUNCTION BOX FOR CONNECTION TO POWER POLES MOUNTED ABOVE HUNG CEILING
- ELECTRICAL SMOKE AND CARBON MONOXIDE
- EXISTING CONDUIT TO BE REMOVED
- EXISTING CONDUIT/EQUIPMENT TO REMAIN
- NEW CONCEALED CONDUIT
- NEW EXPOSED CONDUIT
- NEW UNDERGROUND/IN SLAB CONDUIT
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB-UP WITH FLEXIBLE EQUIPMENT CONNECTION
- FLEXIBLE EQUIPMENT CONNECTION
- CAPPED CONDUIT
- BUS DUCT
- UNDERFLOOR DUCT WITH COMPARTMENT JUNCTION BOX — T = TELEPHONE; P = POWER; S = SIGNAL
- TRENCH HEADER WITH COMPARTMENTS AS INDICATED
- CABLE TRAY

SINGLE LINE DIAGRAM SYMBOLS

- POWER TRANSFORMER VOLTAGES, WINDINGS AND SIZE AS INDICATED — 480V, 500KVA, 120/208
- AUTOMATIC TRANSFER SWITCH — ATS = AUTOMATIC TRANSFER SWITCH; MTS = MANUAL TRANSFER SWITCH; POLES AND RATING AS NOTED
- MOTOR
- GENERATOR
- GROUND CONNECTION
- FUSED SWITCH 100 AMP SWITCH - 80 AMP TYPE 'FA' FUSE
- UNFUSED SWITCH - 100 AMP SWITCH
- CIRCUIT BREAKER - DRAW OUT TYPE 100 AMP FRAME / 90 AMP TRIP
- CIRCUIT BREAKER - MOLDED CASE TYPE 100 AMP FRAME / 90 AMP TRIP — LT = LONG TIME SETTING; ST = SHORT TIME SETTING; I = INSTANTANEOUS SETTING
- NETWORK PROTECTOR 2000 AMP FRAME / 1600 AMP TRIP
- DIGITAL MULTIMETER
- MEDIUM VOLTAGE CIRCUIT BREAKER 200A CAPACITY
- MEDIUM VOLTAGE CIRCUIT BREAKER DRAW OUT TYPE - 200A CAPACITY
- CURRENT TRANSFORMER NUMBER AND RATIO AS INDICATED
- FUSED SWITCH 100 AMP SWITCH - 80 AMP TYPE 'FA' FUSE
- HOOKSWITCH FUSE - 125A EXPULSION FUSE
- CURRENT LIMITER
- LIGHTNING ARRESTOR WITH GROUND CONNECTION
- CAPACITOR
- REACTOR
- COMBINATION MOTOR CONTROLLER AND FUSED DISCONNECT SWITCH. SWITCH AMPS/FUSE AMPS/# OF POLES. VOLTAGE RATING & STARTER SIZE AS REQ'D
- COMBINATION MOTOR CONTROLLER AND CIRCUIT BREAKER TRIP AMPS / # OF POLES, VOLTAGE RATING & STARTER SIZE AS REQ'D

LIGHTNING PROTECTION

- LIGHTNING ROOF AIR TERMINAL WITH COUNTERPOISE CABLE — T = TRIPOD
- LIGHTNING DOWN CONDUCTOR
- LIGHTNING GROUND ROD ON COUNTERPOISE

MISCELLANEOUS SYMBOLS

- AQUASTAT
- PRESSURE SWITCH
- KEY INTERLOCK
- THERMOSTAT
- SOLENOID VALVE
- RELAY
- MOTORIZED VALVE
- FLOAT SWITCH
- FLOW SWITCH
- ELECTRIC REHEAT COIL
- FAN COIL UNIT
- LOCAL CONTROL PANEL
- REMOTE CONTROL PANEL
- POST INDICATOR VALVE
- CABINET UNIT HEATER
- COMPUTER ROOM UNIT-AIR CONDITIONER
- REMOTE CONTROL SWITCH
- GROUND FAULT INTERRUPTER
- VARIABLE AIR VOLUME BOX
- PUSH BUTTON — K = KEY OPERATED; H = HOLD UP; P = PANIC
- SECTION A-A
- FEEDER DESIGNATION — H = 480V; L = 208V; A = SWITCHBOARD 'A'; 1 = FEEDER NUMBER ONE

VOICE/DATA/P.A. SYMBOLS

- WALL MOUNTED PUBLIC ADDRESS SPEAKER — D = DUAL HORN
- CEILING MOUNTED PUBLIC ADDRESS SPEAKER — D = DUAL HORN
- VOICE & DATA OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90 DEG. BEND 8" INTO NEAREST ACCESSIBLE CEILING
- VOICE OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90 DEG. BEND 8" INTO NEAREST ACCESSIBLE CEILING — P = PUBLIC; F = FAX
- DATA OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90 DEG. BEND 8" INTO NEAREST ACCESSIBLE CEILING
- TELEVISION OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90 DEG. BEND 8" INTO NEAREST ACCESSIBLE CEILING
- AUDIO VISUAL OUTLET - FLUSH WALL MOUNTED
- FLOOR MICROPHONE OUTLET
- MICROPHONE OUTLET - FLUSH WALL MOUNTED
- VOLUME CONTROL - FLUSH WALL MOUNTED
- PEDESTAL MOUNTED VOICE OUTLET
- VOICE OUTLET - FLUSH FLOOR MOUNTED
- PEDESTAL MOUNTED DATA OUTLET
- DATA OUTLET - FLUSH FLOOR MOUNTED
- PEDESTAL MOUNTED DATA AND VOICE OUTLET
- DATA AND VOICE OUTLET - FLUSH FLOOR MOUNTED
- SURFACE MOUNTED TELEPHONE TERMINAL CABINET
- FLUSH MOUNTED TELEPHONE TERMINAL CABINET

PROJECT NAME: Extell 217 West 57th Street
PROJECT No.: Y130747-000

ROH LIGHTING FIXTURE SCHEDULE: Extell 217 West 57th Street

TYPE		DESCRIPTION	MANUFACTURER	# LAMPS	WATTS/LAMP	LAMP TYPE	INPUT WATTS	VOLT	CONTROL	COMMENTS
A	12	4" RECESSED LED DOWNLIGHT: NOMINAL HOUSING DIMENSIONS 4"D X 4 3/4" H. PROVIDED WITH STEEL HOUSING AND 1/2" FLANGE. LISTING: UL, ENERGY STAR	USAI LIGHTING BEVEL BASIC 1020-B1-S-10LRTD4-9014-M2-35KS-50-NCSM-277-DIML2	1	14	INTERGRAL LED 3500K 975 LUMENS	14	277	DIM	COORDINATE MOUNTING WITH CEILING CONDITIONS.

NOTES
1.1 ALL FINAL COLOR TRIMS FINISH TO BE APPROVED BY ARCHITECT.
1.2 REFER TO ELECTRICAL PLANS FOR FINAL LOCATION OF ALL EMERGENCY FIXTURES
1.3 NOT USED
1.4 NOT USED
1.5 ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECT FOR LOCATION OF LIGHTING SWITCHES AND DIMMERS.
1.6 WHEN "EM" IS INDICATED IN THE ELECTRICAL PLAN, FIXTURE SHALL BE WIRED TO BE CONNECTED TO EMERGENCY GENERATOR. COORDIANATION WITH ELECTRICAL SPECIFICATIONS REQUIRED.

ASHRAE 9.4.1 (as amended)
-Values provided in Analysis do not match those on drawings.

SCHEDULES:
The lighting fixtures shall be described and keyed to the lighting plans, including type designation, brief description, locations, lamp type, ballast/transformer type, watts per lamp, quantity of lamps per fixture, and system input watts per fixture such that the drawings support the energy analysis.

As part of the lighting schedule, provide a Building Usage Summary indicating the total count for each fixture and a summary calculation of total building wattage proposed to support the values shown on the Energy Analysis output reports.

CONTROL NARRATIVE:
Provide complete Controls Narrative to meet requirements of ASHRAE 9.4.1 (as amended)
All control devices and daylighting zones shall be indicated on drawings and noted in lighting schedule. Provide a narrative describing the proposed control strategy for each unique space or operation type listed in lighting schedule.

ELECTRICAL ABBREVIATIONS

+	SPECIAL MOUNTING HEIGHT. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS
1P	SINGLE POLE
2P	TWO POLE
3P	THREE POLE
A	AMPERE
AC	ABOVE COUNTER
ACB	AIR CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALM	ALARM
AMM	AMMETER
AQST	AQUASTAT
ARF	ABOVE RAISED FLOOR
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BG	BREAK GLASS SWITCH
BIL	BASIC IMPULSE LEVEL
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CO	CONDUIT ONLY
COMM	COMMUNICATION
CONN	CONNECTED
CONT	CONTINUATION
CT	CURRENT TRANSFORMER
CTL	CONTROL
CU	COPPER
CUH	CABINET UNIT HEATER
DB	DECIBEL
DE	DOUBLE ENDED SUBSTATION
DEG	DEGREE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DP	DISTRIBUTION PANEL BOARD
DT	DUST TIGHT
DWG	DRAWING
°C	DEGREE CELSIUS
°F	DEGREE FAHRENHEIT
(E)	EXISTING TO REMAIN
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED AND RELOCATED
E.C.	EMPTY CONDUIT
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER,EM	EMERGENCY
EQUIP	EQUIPMENT
ERC	ELECTRIC REHEAT COIL
EWC	ELECTRIC WATER COOLER
EXIST,EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAP	FIRE ALARM ANNUNCIATOR PANEL
FBO	FURNISHED BY OTHER DIVISION OF WORK
FCU	FAN COIL UNIT
FDR	FEEDER
FDS	FUSED DISCONNECT SWITCH
FIXT	FIXTURE
FL	FL
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FM	FLOOR MACHINE
FRZ	FREEZER
FSP	FAN SHUTDOWN PANE;
FT	FEET OR FOOT
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
HC	HUNG CEILING
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HN	HALF NEUTRAL
HP	HORSE POWER
HV	HIGH VOLTAGE
HZ	HERTZ
IC	INTERRUPTING CAPACITY
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
INCAND	INCANDESCENT
INST	INSTRUMENT
IPC	ISOLATED POWER CENTER
IPX	ISOLATED POWER CENTER X-RAY
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LOCAL CONTROL PANEL
LIM	LINE ISOLATION MONITOR
LTG	LIGHTING
MAP	MECHANICAL ALARM PANEL
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFS	MAIN FUSED SWITCH
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUG ONLY
MOPD,MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MUFS	MAIN UNFUSED SWITCH
N	NEUTRAL
NIC	NOT IN CONTRACT
NO	NORMALLY CLOSED
NO	NORMALLY OPEN
NP	NETWORK PROTECTOR
NTS	NOT TO SCALE
OC	ON CENTER
OCB	OIL CIRCUIT BREAKER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PAP	PLUMBING ALARM PANEL
PB	PULL BOX
PBS	PUSH BUTTON SWITCH
PHC	PIPE HEATING CABLE
PNL	PANEL
PR	PRINTER
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PWR	POWER
ø	PHASE
(RE)	RELOCATED EXISTING
(RRO)	EXISTING TO BE REMOVED AND RETURN TO OWNER
RCS	REMOTE CONTROL SWITCH
RDCP	REMOTE DATA COLLECTION PANEL
RECEPT,REC	RECEPTACLE
REF	REFRIGERATOR
REQ	REQUIRED
RFL	RAISED FLOOR
RG	ROOM GROUND POINT
RM	ROOM
RO	RACEWAY ONLY
RP	REFERENCE GROUND POINT
SAP	SPRINKLER ALARM PANEL
SBST	SUBSTATION
SCHED,SCH	SCHEDULE
SD	SMOKE DETECTOR
SDP	SMOKE DETECTION PANEL
SE	SINGLE ENDED SUBSTATION
SECT	SECTION
SIG	SIGNAL
SN	SOLID NEUTRAL
SP	SINGLE POLE
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
SYS	SYSTEMS
TB	TROUBLE BELL
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPERATURE
THERM	THERMOSTAT
TLBD	TERMINAL BOARD
TP	TAMPER PROOF
TRANSF,XFMR	TRANSFORMER
TS	TAMPER SWITCH
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UH	UNIT HEATER
UNF	UNFUSED
UON	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
VP	VAPORPROOF
WFD	VARIABLE FREQUENCY DRIVE
WM	VOLTMETER
W	WATT
WFS	WATERFLOW SWITCH
WHM	WATT HOUR METER
WP	WEATHERPROOF
WT	WATERTIGHT
XP	EXPLOSION PROOF

ELECTRICAL GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
2. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
3. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVERS).
4. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREAD OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
5. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS, IN 2 INCH SLABS OR IN TERRAZZO FLOOR FINISH.
6. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.
7. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
8. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.

9 LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.

10 COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.

11 PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.

12 EMPTY RACEWAY RUNS: PROVIDE PULLBOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

13 JUNCTION AND PULLBOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.

14 SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.

15 ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

16 CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18" LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

17 PROVIDE 2#14 INDICATING PILOT LIGHT WIRES FROM PILOT LIGHT IN CONTROLLER TO LOAD SIDE OF DISCONNECT SWITCH. RUN WIRES IN BRANCH CIRCUIT CONDUIT AND INCREASE CONDUIT SIZE AS REQUIRED.

18 PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.

19. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. COMMON BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
20. HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET:

RECEPTACLES AND TELEPHONES:	
GENERALLY	1'-6"
OVER WORK BENCHES	3'-6"
WALL SWITCHES	4'-0"
WALL FIXTURES	7'-0"
MOTOR CONTROLLERS	5'-0"
GONGS AND HORNS	7'-6"
FIRE ALARM STATIONS	4'-0"
CLOCKS	7'-6"
STROBE LIGHTS	6'-8" TO BOTTOM

EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE REQUIREMENTS, AS NOTED OR DIRECTED.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND CONFIRMING ALL MOUNTING HEIGHTS WITH ARCHITECT AND ARCHITECTURAL DRAWINGS.

21. WIRE COLOR CODING: AS PER CODE. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
22. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM. INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
23. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
24. LIGHTING FIXTURE SCHEDULE STANDARD NOTE: LIGHTING FIXTURE SCHEDULE SHOWN ON ENGINEER'S DRAWINGS ARE FOR INFORMATION PURPOSES ONLY. LIGHTING FIXTURES SHOWN ARE THOSE SELECTED BY ARCHITECT. ENGINEER SHALL NOT BE RESPONSIBLE FOR INFORMATION SHOWN RELATED TO FIXTURE SELECTION AND OVERALL LIGHTING DESIGN. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.
25. TO THE BEST OF THE APPLICANT'S KNOWLEDGE, BELIEF AND PROFESSIONAL. JUDGEMENT, THESE PLANS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

ELECTRICAL DRAWING LIST

If "E" series drawings are submitted, provide only those drawings that relate to ECC compliance. Remove all sheets with electrical information that exclusively references load tables, panel design, distribution systems, circuiting and switching.

Provide note on each "E" sheet submitted that states: " For ECC Scope and Approval Only"

KEY PLAN:

PROJECT NORTH | TRUE NORTH

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No.	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	04 APR 2014
2	ISSUED FOR DESIGN DEVELOPMENT	01 JUL 2014
3	ISSUED FOR DESIGN DEVELOPMENT	31 JUL 2014
4	CD PROGRESS ISSUE 1	15 OCT 2014
5	ISSUED FOR BID - ELECTRICAL	15 OCT 2014
6	DOB SUBMISSION	19 DEC 2014
7	CD PROGRESS ISSUE 3	09 MAR 2015
8	CD PROGRESS ISSUE 5	10 AUG 2015
9	DOB AMENDMENT 2	18 SEP 2015
10	CD PROGRESS ISSUE 6	02 NOV 2015
11	CD PROGRESS ISSUE 7	29 JAN 2016
12	CD PROGRESS ISSUE 8 - GMP SET	18 MAR 2016
13	CD BULLETIN ISSUE 3	25 MAY 2016
14	DOB AMENDMENT 3	03 OCT 2016
15	CD BULLETIN ISSUE 10	13 NOV 2017

0 4' - 0" 8' - 0" 16' - 0"

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

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Philadelphia / Princeton / Puebla / Rochester / Stamford

PROJECT:
217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:
ELECTRICAL COVER SHEET

SEAL & SIGNATURE: STATE OF NEW YORK · CHRISTOPHER O. McHUGH · No. 073130 · LICENSED PROFESSIONAL ENGINEER

DATE:	04/04/14
PROJECT No:	Y130747-000
DRAWN:	PW
CHK:	EA
SCALE:	AS NOTED
REV:	15
DWG No:	**E-000.01**
DOB PAGE No:	1 of 127

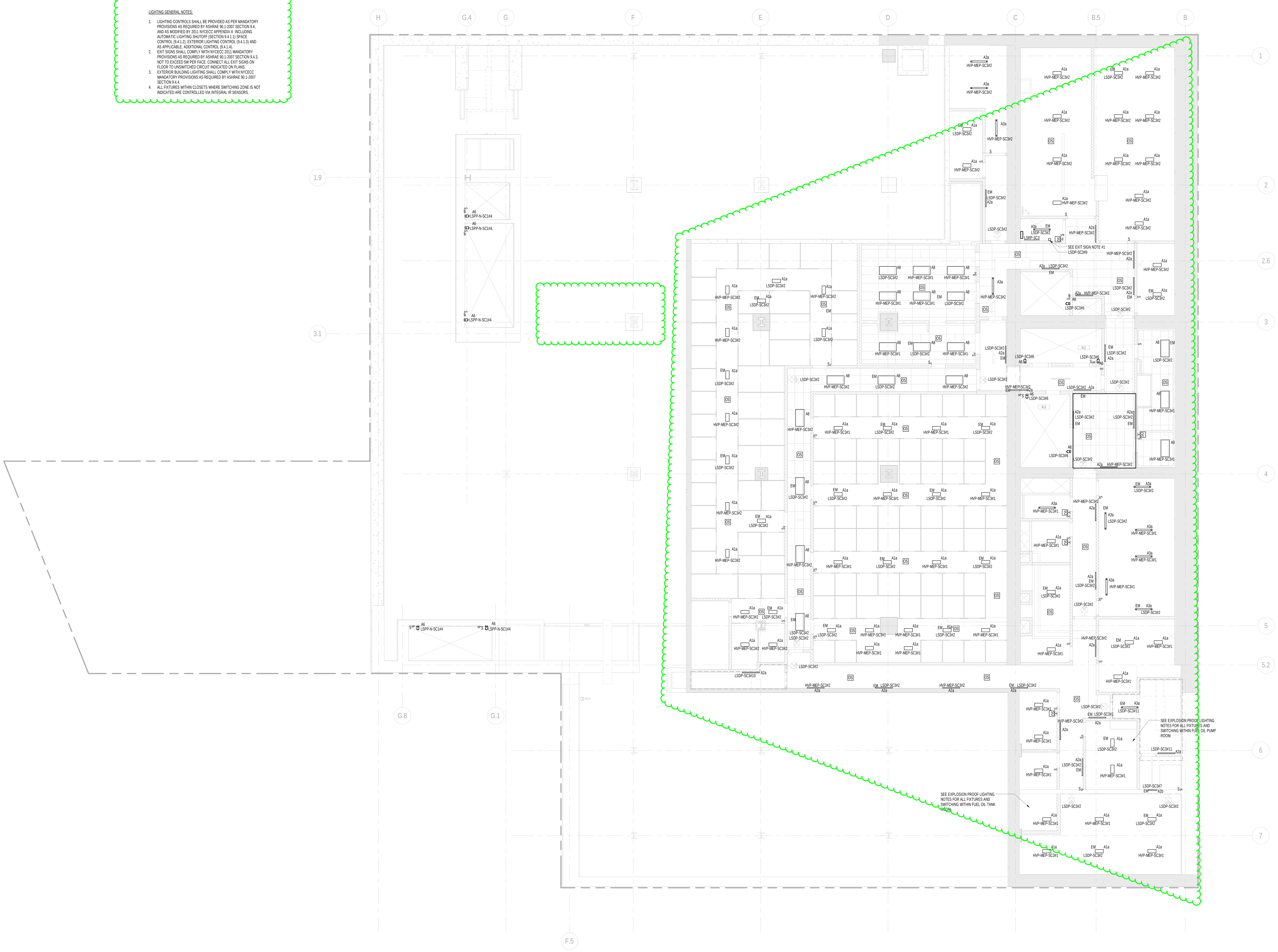
DOB EMPLOYEE STAMP: | DOB B-SCAN:

EXPLOSION PROOF LIGHTING NOTES:

1. ALL LIGHTS WITHIN INDICATED ROOM TO BE LARSON ELECTRONICS EPLC2-LED-150W-RT EXPLOSIONS PROOF LED FLOOD LIGHTS OR APPROVED EQUAL.
2. PROVIDE SWITCH WITH PILOT LIGHT OUTSIDE OF ROOM. DO NOT PROVIDE EXPLOSION PROOF SWITCHING FOR THE LUMINAIRES WITHIN THE ROOM.

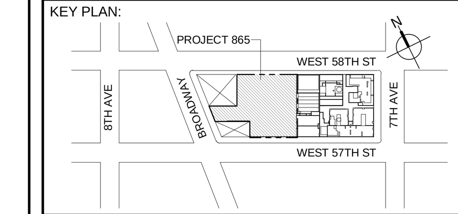
LIGHTING GENERAL NOTES:

1. LIGHTING CONTROLS SHALL BE PROVIDED AS PER MANDATORY PROVISIONS AS REQUIRED BY ASHRAE 90.1-2007 SECTION 9.4, AND AS MODIFIED BY 2011 NYCECC APPENDIX A INCLUDING AUTOMATIC LIGHTING SHUTOFF (SECTION 9.4.1.1) SPACE CONTROL (9.4.1.2), EXTERIOR LIGHTING CONTROL (9.4.1.3) AND AS APPLICABLE, ADDITIONAL CONTROL (9.4.1.4).
2. EXIT SIGNS SHALL COMPLY WITH NYCECC 2011 MANDATORY PROVISIONS AS REQUIRED BY ASHRAE 90.1-2007 SECTION 9.4.3, NOT TO EXCEED 5W PER FACE. CONNECT ALL EXIT SIGNS ON FLOOR TO UNSWITCHED CIRCUIT INDICATED ON PLANS.
3. EXTERIOR BUILDING LIGHTING SHALL COMPLY WITH NYCECC MANDATORY PROVISIONS AS REQUIRED BY ASHRAE 90.1-2007 SECTION 9.4.4.
4. ALL FIXTURES WITHIN CLOSETS WHERE SWITCHING ZONE IS NOT INDICATED ARE CONTROLLED VIA INTEGRAL IR SENSORS.



1 SUB CELLAR 3 FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN:



PROJECT NORTH

TRUE NORTH

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TEL: 212 712 6000 FAX: 212 712 6100

DESIGN ARCHITECT: Base Building Shell & Core
ADRIAN SMITH + GORDON GILL ARCHITECTURE
111 WEST MONROE STREET SUITE 2300
CHICAGO IL 60603
TEL: 312 920 1888 FAX: 312 920 1775

INTERIOR DESIGNER: Residential
Rottet Architecture and Design Studio, PLLC
298 Fifth Ave, 7th Floor
New York, NY 10001
TEL: 646 998 7000 FAX:

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MEP ENGINEERS:
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New York, NY 10006 USA
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GEOTECHNICAL ENGINEERS:
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New York, NY 10001-2727
TEL: 212 479 5400 FAX: 212 479 5444

CODE CONSULTANTS:
Construction Consulting Associates
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TEL: 212 385 1818 FAX: 212 385 1911

CURTAINWALL CONSULTANT:
AJLP Consulting
40 Worth Street. Suite 826
New York, NY 10013
TEL: 212 757 5659 FAX: 646 219 8508

LANDMARK/PRESERVATION CONSULTANT:
Jan Hird Pokorny Associates, Inc.
39 West 37th Street, 12A
New York, NY 10018
TEL: 212 759 6462 FAX: 212 759 6540

No.	DESCRIPTION	DATE
1	ISSUED FOR SCHEMATIC DESIGN	04 APR 2014
2	ISSUED FOR DESIGN DEVELOPMENT	01 JUL 2014
3	ISSUED FOR DESIGN DEVELOPMENT	31 JUL 2014
4	CD PROGRESS ISSUE 1	15 OCT 2014
5	ISSUED FOR BID - ELECTRICAL	15 OCT 2014
6	DOB SUBMISSION	19 DEC 2014
7	CD PROGRESS ISSUE 3	09 MAR 2015
8	CD PROGRESS ISSUE 5	10 AUG 2015
9	DOB AMENDMENT 2	18 SEP 2015
10	CD PROGRESS ISSUE 6	02 NOV 2015
11	CD PROGRESS ISSUE 7	29 JAN 2016
12	CD PROGRESS ISSUE 8 - GMP SET	18 MAR 2016
13	DOB AMENDMENT 3	03 OCT 2016
14	ISSUED FOR ASI #14	11 JAN 2017
15	ISSUED FOR ASI #19	24 MAR 2017

0 4' - 0" 8' - 0" 16' - 0"

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

CONSULTANT:
AKF
ONE LIBERTY PLAZA, 165 BROADWAY, 22nd FLOOR
NEW YORK, NY 10006
T: 212.354.5656 F: 212.354.5668
Arlington / Boston / Mexico City / Minneapolis / New York
Philadelphia / Princeton / Puebla / Rochester / Stamford

PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

ELECTRICAL SUB CELLAR 3 PLAN - LIGHTING (MFD-SUB CELLAR 3)

SEAL & SIGNATURE:

DATE:	04/04/14
PROJECT No:	Y130747-000
DRAWN:	JJ/PW
CHK:	EA
SCALE:	1/8" = 1'-0"
REV:	15
DWG No:	E-100.01
DOB PAGE No:	2 of 127

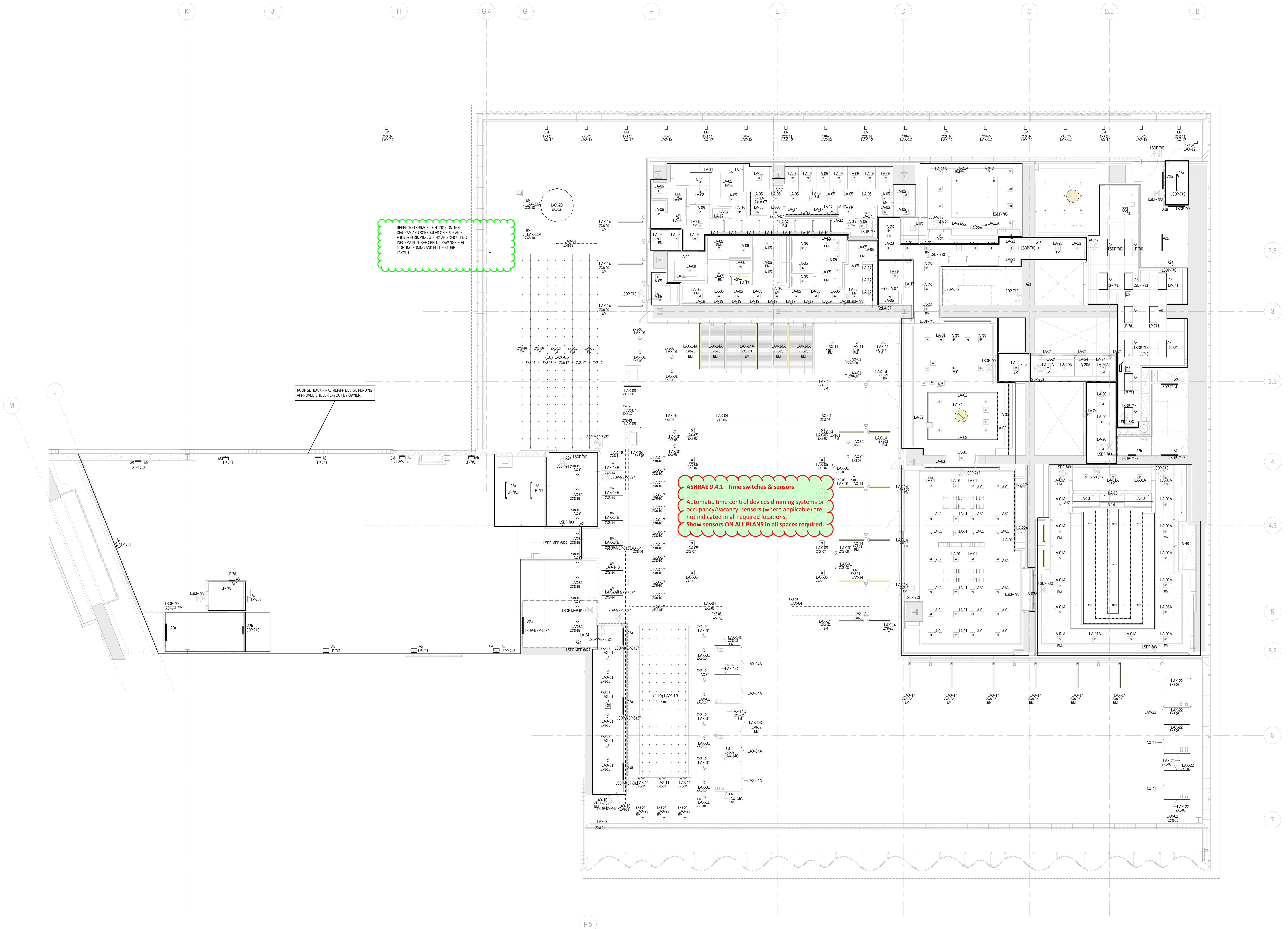
DOB EMPLOYEE STAMP:

DOB B-SCAN:

DEPT OF BLDGS 121328205 Job Number

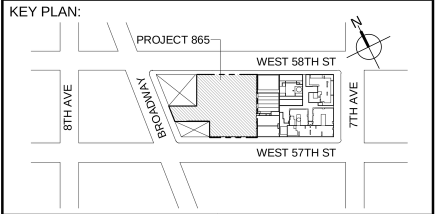
LIGHTING GENERAL NOTES:

1. LIGHTING CONTROLS SHALL BE PROVIDED AS PER MANDATORY PROVISIONS AS REQUIRED BY ASHRAE 90.1-2007 SECTION 9.4, AND AS MODIFIED BY 2011 NYCECC APPENDIX A INCLUDING AUTOMATIC LIGHTING SHUTOFF (SECTION 9.4.1.1) SPACE CONTROL (9.4.1.2), EXTERIOR LIGHTING CONTROL (9.4.1.3) AND AS APPLICABLE, ADDITIONAL CONTROL (9.4.1.4).
2. EXIT SIGNS SHALL COMPLY WITH NYCECC 2011 MANDATORY PROVISIONS AS REQUIRED BY ASHRAE 90.1-2007 SECTION 9.4.3, NOT TO EXCEED 5W PER FACE. CONNECT ALL EXIT SIGNS ON FLOOR TO UNSWITCHED CIRCUIT INDICATED ON PLANS.
3. EXTERIOR BUILDING LIGHTING SHALL COMPLY WITH NYCECC MANDATORY PROVISIONS AS REQUIRED BY ASHRAE 90.1-2007 SECTION 9.4.4.
4. ALL FIXTURES WITHIN CLOSETS WHERE SWITCHING ZONE IS NOT INDICATED ARE CONTROLLED VIA INTEGRAL IR SENSORS.



1 8th FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN:



PROJECT NORTH | TRUE NORTH

DEVELOPER:
EXTELL DEVELOPMENT COMPANY
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INTERIOR DESIGNER: Residential
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12	CD PROGRESS ISSUE 8 - GMP SET	18 MAR 2016
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14	ISSUED FOR ASI #25	15 SEP 2017

0 4' - 0" 8' - 0" 16' - 0"

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

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PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

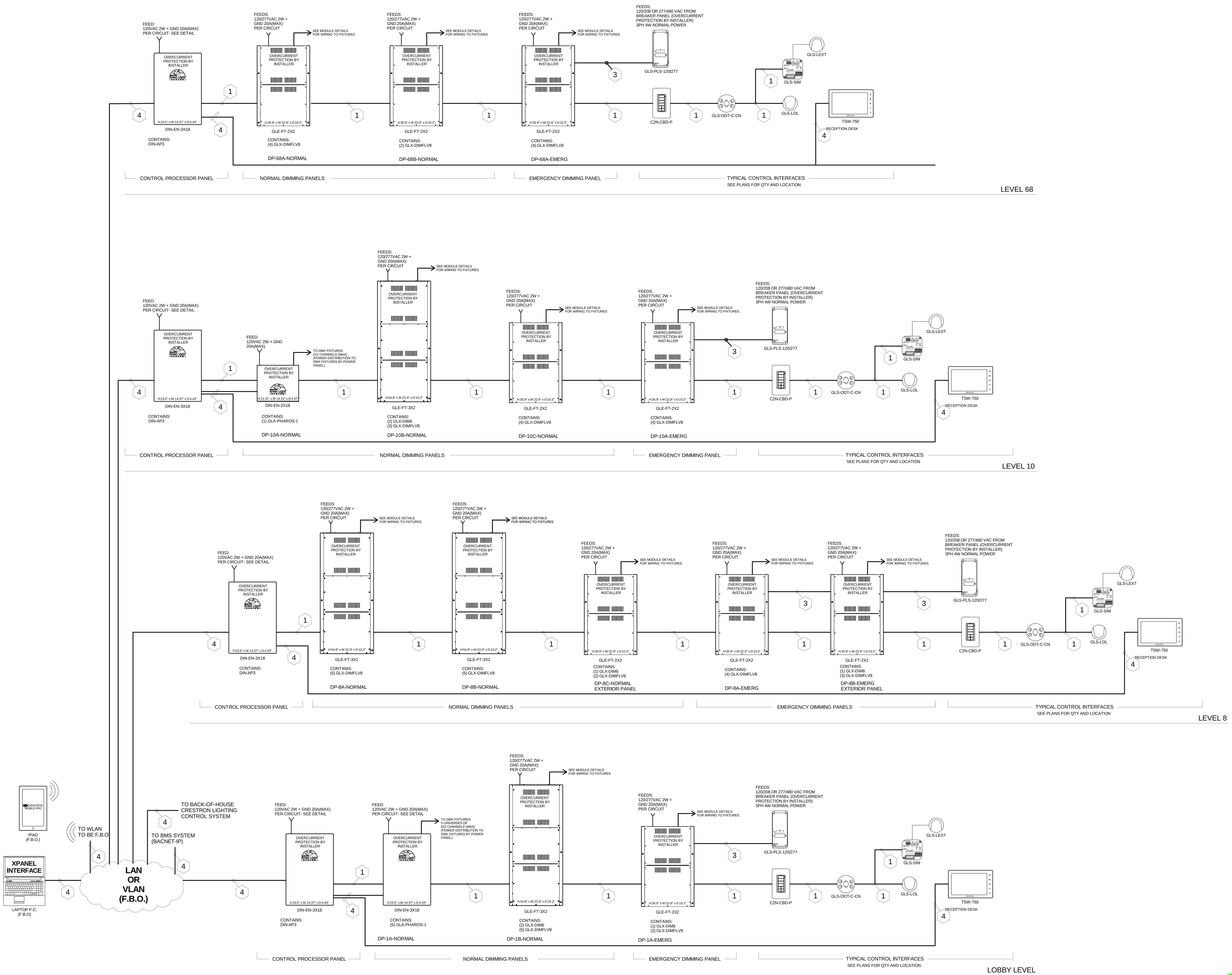
DRAWING TITLE:

ELECTRICAL
8th FLOOR PLAN - LIGHTING
(MFD-14th FLOOR)

SEAL & SIGNATURE:
STATE OF NEW YORK
CHRISTOPHER O. McHUGH
LICENSED PROFESSIONAL ENGINEER
No. 073130

DATE: 04/04/14
PROJECT No: Y130747-000
DRAWN: JJ/PW
CHK: EA
SCALE: 1/8" = 1'-0"
REV: 14
DWG No: **E-113.01**
DOB PAGE No: 15 of 127

DOB EMPLOYEE STAMP: | DOB B-SCAN:



NOTES:

1. "CRESNET" CABLE:
(1) PAIR #18AWG,
(1) TWISTED PAIR 22AWG
W/SHIELD (BY E.C.)
NON-PLENUM PN: CRESNET-NP-TL
PLENUM PN: CRESNET-P-TL

2. RS-232 CABLE:
(1) TWISTED PAIR 22AWG
(1) SHIELD
DB-9 CONNECTOR
(BY E.C.)

3. CABLE:
(1) TWISTED PAIR 18AWG
(1) SHIELD
(BY E.C.)

4. CABLE:
CAT5E ETHERNET

5. SUITABLE GAUGE WIRE
TO MEET LOAD
REQUIREMENTS

MAXIMUM CABLE LENGTH EQUATION:

$$L < \frac{40{,}000}{R \times P}$$

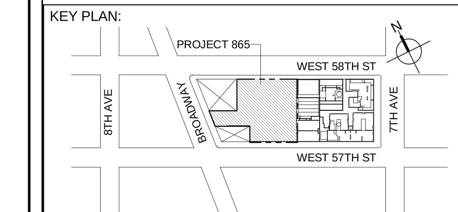
Where L = Maximum Length of run in feet from power source
R = 6 Ohms for Cresnet Certified wire or
1.6 Ohms for Cresnet High Power Certified wire
P = Cresnet Power usage of entire run

Example: A single run with (4) CNX-B6 Keypads, (4) GLS-SIM, (4) GLS-ODT-C-2000 (Sensor) has a total Cresnet Power usage of P = 20 Watts. Using standard Cresnet cable R = 6 the maximum wire length would be 333 feet. Using High Power Cresnet R= 1.6 the maximum wire length would be 1250 feet.

***ALL PHYSICAL DEVICE LOCATIONS TO BE COORDINATED WITH ARCHITECT.

LENGTH OF CRESNET WIRING RUNS ARE LIMITED TO # OF DEVICES AND CRESNET POWER DRAW. DAISY CHAIN AND OR STAR TOPOLOGIES ARE PERMITTED TO SUIT INSTALLATION NEEDS. EACH HOME RUN NOT TO EXCEED 20 CRESNET DEVICES. USE THE CALCULATOR SHOWN TO DETERMINE MAXIMUM WIRE RUN LENGTH. POWER SUPPLIES CAN BE ADDED TO INCREASE LENGTH OF HOME RUNS.

KEY PLAN:



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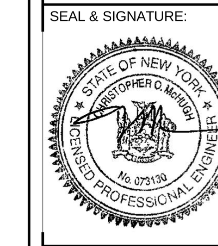
PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:
ELECTRICAL
DETAILS

SEAL & SIGNATURE:



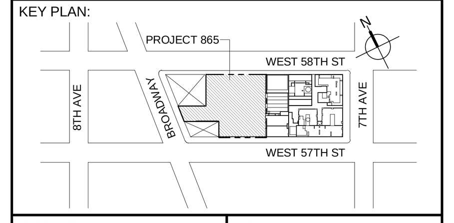
DATE: 04/04/14
PROJECT No: Y130747-000
DRAWN: PW
CHK: EA
SCALE: NONE
REV: 14
DWG No:
E-602.01
DOB PAGE No: 119 of 127

DOB EMPLOYEE STAMP:
DOB B-SCAN:

ZONE	LOAD DESCRIPTION	FIXT. TYPE	FIXTURE DESCRIPTION	WATTS		QUANT.	FIXT. VOLT.	LOAD TYPE	LOAD TOTAL	PANEL NAME	MODULE TYPE	MODULE OUTPUT	PANEL & CKT
ZL1-01	57th St. Entrance Vestibule	LL-09	White color LED grazing strip	15	ft	294	UNV	ELV	4410	DP-1B-NORMAL	GLX-DIM6 (FWD ELV)	DIM6-A-1-5, DIM6-A-1-6	HVP-MEP-C#55,57
ZL1-01-EM	57th St. Entrance Vestibule	LL-09	White color LED grazing strip	15	ft	98	UNV	ELV	1470	DP-1A-EMERG	GLX-DIM6 (FWD ELV)	DIM6-AE-1-4	LSPP-C#7
ZL1-02	57th St. Entrance Vestibule	LL-06	LED cove light - 4ft	50	ea	240	UNV	ELV	12000	DP-1B-NORMAL	GLX-DIM6 (FWD ELV)	DIM6-B-1-1, DIM6-B-1-2, DIM6-B-1-3	HVP-MEP-C#75,76,77
		LL-06A	LED cove light - 1ft	12.5	ea	24	UNV	ELV	300	DP-1B-NORMAL	GLX-DIM6 (FWD ELV)	DIM6-B-1-4	HVP-MEP-C#58
ZL1-02-EM	57th St. Entrance Vestibule	LL-06	LED cove light - 4ft	50	ea	120	UNV	ELV	6000	DP-1A-EMERG	GLX-DIM6 (FWD ELV)	DIM6-AE-1-1, DIM6AE-1-2	LSPP-C#12,14
		LL-06A	LED cove light - 1ft	12.5	ea	6	UNV	ELV	75	DP-1A-EMERG	GLX-DIM6 (FWD ELV)	DIM6-AE-1-3	LSPP-C#7
ZL1-03	57th St. Entrance Vestibule	LL-07	LED strip lights mounted vertically	1.8	ft	252	UNV	0-10	453.6	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-1-1	HVP-MEP-C#58
ZL1-04	57th St. Reception	LL-01A	Recessed LED downlight	28	ea	5	UNV	0-10	140	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-1-2	HVP-MEP-C#58
ZL1-04-EM	57th St. Reception	LL-01A	Recessed LED downlight	28	ea	3	UNV	0-10	84	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-1-1	LSPP-C#7
ZL1-05	57th St. Reception	LL-01	Recessed LED downlight	9	ea	2	UNV	0-10	18	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-1-3	HVP-MEP-C#58
		LL-21	Recessed LED downlight	9	ea	2		0-10	18	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-1-4	HVP-MEP-C#58
ZL1-05-EM	57th St. Reception	LL-21	Recessed LED downlight	9	ea	1		0-10	9	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-1-2	LSPP-C#7
ZL1-06	57th St. Reception	LL-03	Recessed LED downlight	28	ea	3	UNV	0-10	84	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-1-5	HVP-MEP-C#58
ZL1-06-EM	57th St. Reception	LL-03	Recessed LED downlight	28	ea	2	UNV	0-10	56	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-1-3	LSPP-C#7
ZL1-07	57th St. Reception	LL-10	LED MR16 retrofit lamp	9	ea	240	277	MLV	2160	DP-1B-NORMAL	GLX-DIM6 (FWD ELV)	DIM6-B-1-5	HVP-MEP-C#58
ZL1-08	57th St. Reception	LL-12	LED cove light - 4ft	10	ea	160	277	ELV	1600	DP-1B-NORMAL	GLX-DIM6 (FWD ELV)	DIM6-B-1-6	HVP-MEP-C#59
ZL1-09	57th St. Reception	LL-11	LED grid panel-12"square	2.8	sq	523	UNV	0-10	1464.4	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-1-6	HVP-MEP-C#59
ZL1-10	57th St. Reception	LL-20	Recessed LED downlight	40	ea	4		0-10	160	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-1-7	HVP-MEP-C#59
ZL1-11	57th St. Reception	LL-04	Surface mounted LED tape light	1.8	ft	352		0-10	633.6	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-1-8	HVP-MEP-C#59
ZL1-11-EM	57th St. Reception	LL-15	Surface mounted LED tape light	2.5	ea	24	UNV	0-10	60	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-1-4	LSPP-C#7
ZL1-12	57th St. Reception	LL-04A	Surface mounted LED tape light	1.8	ft	59		0-10	106.2	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-2-1	HVP-MEP-C#78
ZL1-13	Elevator Lobby	LL-13C	Recessed LED downlight	26.5	ea	2		0-10	53	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-2-2	HVP-MEP-C#78
ZL1-13-EM	Elevator Lobby	LL-13C	Recessed LED downlight	26.5	ea	4		0-10	106	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-1-5	LSPP-C#7
ZL1-14	Elevator Lobby	LL-13	Recessed LED downlight	28	ea	6	UNV	0-10	168	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-2-3	HVP-MEP-C#78
ZL1-14-EM	Elevator Lobby	LL-13	Recessed LED downlight	28	ea	3	UNV	0-10	84	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-1-6	LSPP-C#7
ZL1-15	Elevator Lobby	LL-08	Decorative LED Sconce	24	ea	7		ND	168	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-2-4	HVP-MEP-C#78
ZL1-16	Mail Room	LL-13C	Recessed LED downlight	26.5	ea	5		0-10	132.5	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-2-5	HVP-MEP-C#78
ZL1-16-EM	Mail Room	LL-13C	Recessed LED downlight	26.5	ea	3		0-10	79.5	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-1-7	LSPP-C#7
ZL1-17	Elevator Lobby	LL-02	Recessed LED wallwasher	38	ea	7	UNV	0-10	266	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-2-6	HVP-MEP-C#78
ZL1-18	Storage	LL-13A	Recessed LED downlight	15	ea	1	UNV	0-10	15	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-2-7	HVP-MEP-C#78
ZL1-19	Service Corridor	LL-13C	Recessed LED downlight	26.5	ea	8		0-10	212	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-2-8	HVP-MEP-C#78
ZL1-19-EM	Service Corridor	LL-13C	Recessed LED downlight	26.5	ea	2		0-10	53	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-1-8	LSPP-C#7
ZL1-20	58th Service Corridor Entrance Vestibule	LL-13A	Recessed LED downlight	15	ea	3	UNV	0-10	45	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-3-1	HVP-MEP-C#78
ZL1-20-EM	58th Service Corridor Entrance Vestibule	LL-13A	Recessed LED downlight	15	ea	1	UNV	0-10	15	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-2-1	LSPP-C#7
ZL1-21	Security Office	LL-13A	Recessed LED downlight	15	ea	4	UNV	0-10	60	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-3-2	HVP-MEP-C#78
ZL1-22	Service Corridor	LL-02A	Recessed LED wallwasher	28	ea	1	UNV	0-10	28	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-3-3	HVP-MEP-C#78
ZL1-22-EM	Service Corridor	LL-02A	Recessed LED wallwasher	28	ea	1	UNV	0-10	28	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-2-2	LSPP-C#7
ZL1-23	58th Street Lobby	LL-13	Recessed LED downlight	28	ea	9	UNV	0-10	252	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-4-4	HVP-MEP-C#78
ZL1-23-EM	58th Street Lobby	LL-13	Recessed LED downlight	28	ea	3	UNV	0-10	84	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-2-3	LSPP-C#7
ZL1-24	58th Street Lobby	LL-13A	Recessed LED downlight	15	ea	3	UNV	0-10	45	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-4-5	HVP-MEP-C#78
ZL1-24-EM	58th Street Lobby	LL-13A	Recessed LED downlight	15	ea	1	UNV	0-10	15	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-2-4	LSPP-C#7
ZL1-25	58th Street Lobby	LL-02	Surface mounted LED tape light	38	ea	3	UNV	0-10	114	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-4-6	HVP-MEP-C#78
ZL1-25-EM	58th Street Lobby	LL-02	Surface mounted LED tape light	38	ea	1	UNV	0-10	38	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-2-5	LSPP-C#7
ZL1-26	58th Street Lobby	LL-02	Surface mounted LED tape light	38	ea	1	UNV	0-10	38	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-4-7	HVP-MEP-C#78
ZL1-27	Security Office- Service Corridor	LL-13A	Recessed LED downlight	15	ea	1	UNV	0-10	15	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-4-8	HVP-MEP-C#78
ZL1-28	Security Office- Service Corridor	LL-17A	Surface mounted LED strip light	64	ea	1		ELV	64	DP-1B-NORMAL	GLX-DIM6 (FWD ELV)	DIM6-B-2-1	HVP-MEP-C#78
ZL1-29-EM	Elevator Lobby	LL-13	Recessed LED downlight	28	ea	1	UNV	0-10	28	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-2-6	LSPP-C#7
ZL1-30	Powder Room Vestibule	LL-13A	Recessed, floor uplight	15	ea	1	UNV	0-10	15	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-5-1	HVP-MEP-C#78
ZL1-31	58th Street Lobby	LL-13B	Recessed LED downlight	14.5	ea	4		0-10	58	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-5-2	HVP-MEP-C#78
ZL1-32	Service Corridor	LL-13A	Recessed LED downlight	15	ea	2	UNV	0-10	30	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-5-3	HVP-MEP-C#78
ZL1-32-EM	Service Corridor	LL-13A	Recessed LED downlight	15	ea	1	UNV	0-10	15	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-2-7	LSPP-C#7
ZL1-33	Powder Room	LL-14	Recessed 2" square aperture fixed LED	7.5	ea	1	UNV	0-10	7.5	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-5-4	HVP-MEP-C#78
ZL1-33-EM	Powder Room	LL-13A	Recessed 2" square aperture fixed LED	15	ea	1	UNV	0-10	15	DP-1A-EMERG	GLX-DIMFLV8	DIMFLV8-AE-2-8	LSPP-C#7
ZL1-34	Powder Room	LL-13A	Recessed 4-1/2" square LED downlight	15	ea	1	UNV	0-10	15	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-5-5	HVP-MEP-C#78
ZL1-35	58th Street Lobby Entrance Vestibule- Exterior	LLX-02	Recessed perimeter mounted linear LED 3"	10	lf	37.75	UNV	0-10	377.5	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-5-6	HVP-MEP-C#78
ZL1-36	57th St. Reception - Desk Accent	LL-16	Surface mounted white LED strip light with narrow-beam	4.5	ft	5.5	UNV	0-10	24.75	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-5-7	HVP-MEP-C#78
ZL1-37	57th St. Reception Portal	LLX-03	Recessed 4-1/2" square LED downlight	5	ea	6		0-10	30	DP-1B-NORMAL	GLX-DIMFLV8	DIMFLV8-B-5-8	HVP-MEP-C#78

LOBBY LIGHTING CONTROL PANEL SCHEDULE
SCALE : N.T.S.

KEY PLAN:



PROJECT NORTH

TRUE NORTH

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No.	DESCRIPTION	DATE
1	CD PROGRESS ISSUE 6	02 NOV 2015
2	CD PROGRESS ISSUE 7	29 JAN 2016
3	CD PROGRESS ISSUE 8 - GMP SET	18 MAR 2016
4	DOB AMENDMENT 3	03 OCT 2016
5	ISSUED FOR ASI #19	24 MAR 2017

0 4' - 0" 8' - 0" 16' - 0"

ALL DIMENSIONS ARE SHOWN IN IMPERIAL.

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PROJECT:

217 WEST 57TH STREET
NEW YORK, NY

DRAWING TITLE:

ELECTRICAL
GROUND FLOOR LIGHTING
CONTROL SCHEDULE

SEAL & SIGNATURE:

STATE OF NEW YORK
CHRISTOPHER O. McHUGH
LICENSED PROFESSIONAL ENGINEER
No. 073130

DATE:	11/02/15
PROJECT No:	Y130747-000
DRAWN:	PW
CHK:	EA
SCALE:	NONE
REV:	5
DWG No:	E-605.00

DOB PAGE No: 122 of 127

DOB EMPLOYEE STAMP:

DOB B-SCAN: