

The City of New York Department of Design and Construction

Division of Buildings

FMS ID NUMBER: E14-0010

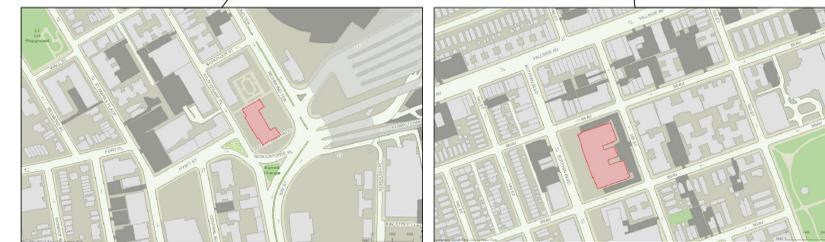
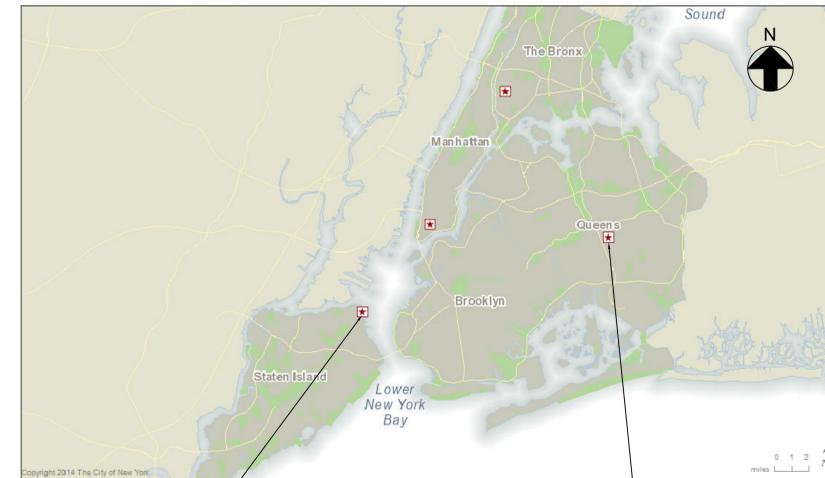
PROJECT TITLE: ENERGY CONSERVATION MEASURES (ECM) FOR
QUEENS SUPREME COURT & STATEN ISLAND BOROUGH HALL

BOROUGH: QUEENS & STATEN ISLAND

SPONSOR AGENCY: DCAS

STATEN ISLAND BOROUGH HALL		
NUMBER	TITLE	SCALE
G-000.00	E14 ECM COVERSHEET	
G-001.00	COVERSHEET	
E-001.00	ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS	
EL-101.00	GROUND FLOOR ELECTRICAL LIGHTING PLAN	
EL-102.00	1ST FLOOR ELECTRICAL LIGHTING PLAN	
EL-103.00	2ND FLOOR ELECTRICAL LIGHTING PLAN	
EL-104.00	3RD FLOOR ELECTRICAL LIGHTING PLAN	
EL-105.00	4TH FLOOR ELECTRICAL LIGHTING PLAN	
E-501.00	ELECTRICAL DETAILS	

QUEENS SUPREME COURT		
NUMBER	TITLE	SCALE
G-001.00	COVERSHEET	
M-001.00	MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS	
M-101.00	GROUND FLOOR MECHANICAL PLAN	
M-102M.00	2ND FLOOR MEZZANINE MECHANICAL PLAN	
M-104M.00	4TH FLOOR MEZZANINE MECHANICAL PLAN	
M-108.00	8TH FLOOR MECHANICAL PLAN	
B-001.00	BMS COVER SHEET	
B-301.00	BMS MECHANICAL CONTROLS AIR SIDE	
B-302.00	BMS MECHANICAL CONTROLS AIR SIDE	



PROJECT LOCATIONS PLAN



A member company of SH Group, Inc.
Syska Hennessy Group, Inc.
1515 Broadway
New York, NY 10036
Tel: 212.921.2300
Fax: 212.556.3333
www.syska.com



ASSOCIATES
A CONSTRUCTION CONSULTING FIRM

REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
2	ISSUE FOR 100% CD	07/21/15
3	ISSUE FOR 100% CD	11/19/15
4	ISSUE FOR COMPLIANCE	01/04/16



DIVISION OF BUILDINGS
CAPITAL PROJECT NUMBER:
E14-0010
PROJECT
**OneNYC
ENERGY
CONSERVATION
MEASURES (ECMs)**
**QUEENS SUPREME COURT
STATEN ISLAND BOROUGH HALL**

DRAWING TITLE:
E14 ECM COVERSHEET

SPONSOR AGENCY _____ DATE _____

DEPUTY PROGRAM DIRECTOR _____ DATE _____

NYCECC NOTE:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

BUILDING DEPARTMENT APPROVAL NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC20000
	DRAWN BY: MM
	CHECKED BY: HJK
	DRAWING NUMBER: G-000.00
	DATE: NONE

The City of New York Department of Design and Construction

Division of Buildings

FMS ID NUMBER: E14-0010

PROJECT TITLE: STATEN ISLAND BOROUGH HALL ENERGY CONSERVATION MEASURES (ECM)

PROJECT LOCATION: 10 RICHMOND TERRACE, STATEN ISLAND, NY 10301 BLOCK: 7 LOT: 1

BOROUGH: STATEN ISLAND ZONING: C4-2

SPONSOR AGENCY: DCAS

SCOPE OF WORK		
FOLLOWING ENERGY CONSERVATION MEASURES (ECMs) HAVE BEEN IMPLEMENTED INTO THE FINAL DESIGN DOCUMENTS		
ECM #	TITLE	DESCRIPTION
4	INSTALL PHOTOCELLS ON OUTSIDE LIGHTS	ELIMINATE THE EXISTING TIME SWITCH AND INSTALLING A REPLACEMENT PHOTO SENSOR
7	REPLACE INCANDESCENT BULBS	REDUCE LIGHTING POWER FOR VARIOUS LIGHTING FIXTURES IN THE CONFERENCE ROOM AND THE BOROUGH PRESIDENT SECRETARY'S OFFICE.
10	UPGRADE FROM T8 3-BULBS 4X2 FLUORESCENT FIXTURES TO 2-BULB TYPE	REDUCE LIGHTING POWER BY RE-LAMPING LIGHTING FIXTURES OR REWIRING FOR LED TYPE BULBS.
11	OCCUPANCY SENSORS	INSTALL OCCUPANCY SENSORS TO DE-ENERGIZE LIGHTING WHEN NOT IN USE.

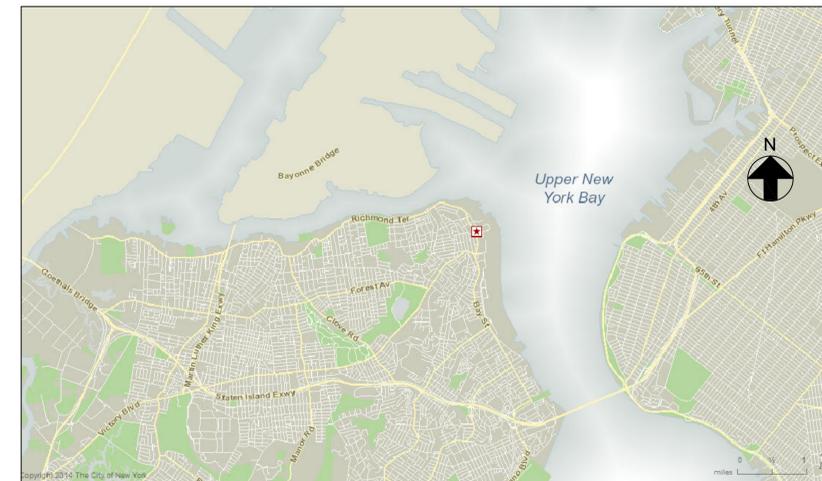
SPECIAL INSPECTION NOTES:

- INSPECTION OF SELECTED MATERIALS, EQUIPMENT, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS MADE DURING THE PROGRESS OF THE WORK TO ENSURE COMPLIANCE WITH THE CONTRACT DOCUMENTS AND PROVISIONS OF THE NEW YORK CITY CONSTRUCTION CODES, SHALL BE MADE BY A SPECIAL INSPECTOR. THE CITY OF NEW YORK WILL RETAIN THE SERVICES OF THE SPECIAL INSPECTOR AND BEAR THE COSTS FOR THE PERFORMANCE OF SPECIAL INSPECTIONS IN COMPLIANCE WITH NYC CONSTRUCTION CODES REQUIREMENTS OR AS ADDITIONALLY MAY BE CALLED FOR IN THE PROJECT SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL BE AN ENTITY COMPLIANT WITH THE REQUIREMENTS OF THE NEW YORK CITY CONSTRUCTION CODES.
- THE CONTRACTOR SHALL NOTIFY THE RELEVANT SPECIAL INSPECTOR IN WRITING AT LEAST 72 HOURS BEFORE THE COMMENCEMENT OF ANY WORK REQUIRING SPECIAL INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND BEAR RELATED COSTS TO ASSURE THAT ALL CONSTRUCTION OR WORK SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL THE REQUIRED INSPECTION IS COMPLETED.
- INSPECTIONS AND TESTS PERFORMED UNDER "SPECIAL INSPECTION" SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS, AND THAT THERE IS NO WARRANTY GIVEN TO THE CONTRACTOR BY THE CITY OF NEW YORK IN CONNECTION WITH SUCH INSPECTION AND TESTS OR CERTIFICATIONS MADE UNDER "SPECIAL INSPECTIONS".
- THE CONTRACTOR MUST COORDINATE WITH THE RESIDENT ENGINEER OR DDC PROJECT MANAGER TO PROVIDE ACCESS AND SCHEDULE THE WORK FOR INSPECTION BY THE SPECIAL INSPECTOR.

PROGRESS AND FINAL INSPECTIONS:
BC 1704.15 (MECHANICAL SYSTEMS)
BC 1704.19, BC 3306.6 (MECHANICAL DEMOLITION)
BC 109.5 (FINAL)

ENERGY CODE COMPLIANCE INSPECTIONS:
IIC8 (ELECTRIC MOTORS)

STATEN ISLAND BOROUGH HALL		
NUMBER	TITLE	SCALE
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G-001.00	COVERSHEET	
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E-501.00	ELECTRICAL DETAILS	



LOCATION PLAN



AREA PLAN

REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
2	ISSUE FOR 100% CD	07/21/15
3	ISSUE FOR 100% CD	11/19/15
4	ISSUE FOR COMPLIANCE	01/04/16



DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER:
E14-0010

PROJECT
OneNYC
ENERGY
CONSERVATION
MEASURES (ECMs)

STATEN ISLAND BOROUGH HALL
10 RICHMOND TERRACE,
STATEN ISLAND, NY 10301

DRAWING TITLE:
COVERSHEET

SPONSOR AGENCY _____ DATE _____

DEPUTY PROGRAM DIRECTOR _____ DATE _____

NYCECC NOTE:
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SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC20000
	DRAWN BY: MM
	CHECKED BY: HJK
	DRAWING NUMBER: G-001.00
	DATE: NONE
	OF 02

The City of New York Department of Design and Construction

Division of Buildings

FMS ID NUMBER: E14-0010
 PROJECT TITLE: QUEENS SUPREME COURT ENERGY CONSERVATION MEASURES (ECM)
 PROJECT LOCATION: 88-11 SUTPHIN BOULEVARD, JAMAICA, NY 11435 BLOCK: 9691 LOT: 1
 BOROUGH: QUEENS ZONING: C4-4A
 SPONSOR AGENCY: DCAS

SCOPE OF WORK		
FOLLOWING ENERGY CONSERVATION MEASURES (ECMs) HAVE BEEN IMPLEMENTED INTO THE FINAL DESIGN DOCUMENTS		
ECM #	TITLE	DESCRIPTION
4	DEMAND CONTROL VENTILATION	CO2 SENSORS TO BE TIED INTO THE BMS SYSTEM TO CONTROL THE AMOUNT OUTSIDE AIR DELIVERED.
7	REBALANCE AHU'S	USE THE EXISTING VFDS TO MODULATE AHU AIRFLOWS INSTEAD OF EXISTING DAMPERS.

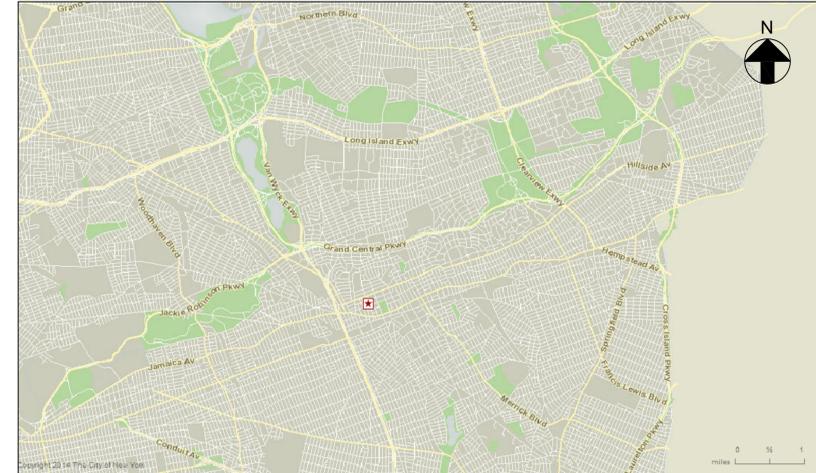
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LOCATION PLAN



AREA PLAN

SPONSOR AGENCY _____ DATE _____

DEPUTY PROGRAM DIRECTOR _____ DATE _____

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DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER:
E14-0010
 PROJECT
**OneNYC
 ENERGY
 CONSERVATION
 MEASURES (ECMs)**

**QUEENS SUPREME COURT
 8811 SUTPHIN BOULEVARD,
 JAMAICA, NY 11435**

DRAWING TITLE:
COVERSHEET

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC21000
	DRAWN BY: MM
	CHECKED BY: HJK
	DRAWING NUMBER: G-001.00
	DATE: NONE
	OF 01

ABBREVIATIONS

A	AMPERE	P	POLE
AFF	ABOVE FINISHED FLOOR	PPB	WIRELESS AREA CONTROL RELAY
AUTO	AUTOMATIC	PB	PULL BOX
BLDG	BUILDING	PC	PHOTO CELL
C	CONDUIT	PNL	PANEL
CB	CIRCUIT BREAKER	PWR	POWER
CKT	CIRCUIT	(R)	REMOVE
CLG	CEILING	(RE)	RELOCATE EXISTING
CH	RF WIRELESS	RCPT	RECEPTACLE
CM	CONTROL MODE	RFS	RF WIRELESS CONTROL SWITCH
DWG	DRAWING	TYP	TYPICAL
(E)	EXISTING TO REMAIN	SR	REWORKED LIGHT SWITCH
ERL	EXISTING RELOCATED LOCATION	UCN	UNLESS OTHERWISE NOTED
ELEC	ELECTRICAL	UNIV	UNIVERSAL
EQUIP	EQUIPMENT	VSC	RF WIRELESS CORNER VACANCY SENSOR
FLR	FLOOR	VSH	RF WIRELESS HALLWAY VACANCY SENSOR
FLEX	FLEXIBLE	VSW	RF WIRELESS WALL MOUNT VACANCY SENSOR
FLUOR	FLUORESCENT	VSCP	WIRED VACANCY SENSOR CONTROL PANEL
FT	FEET OR FOOT	VSCPD	WIRED VACANCY SENSOR DIMMING CONTROL PANEL
G, GND	GROUND	VFD	VARIABLE FREQUENCY DRIVE
GRS, RGS	GALVANIZED RIGID STEEL	VR	VANDAL RESISTANT
HID	HIGH INTENSITY DISCHARGE	VS	RF WIRELESS CEILING VACANCY SENSOR
HP	HORSEPOWER	W	WATT OR WIRE
HS	HIGH SECURITY	WP	WEATHERPROOF
HZ	HERTZ	WS	RF WIRELESS OFF/ON SWITCH
JB	JUNCTION BOX	XFMR	TRANSFORMER
LP	LIGHTING PANELBOARD		
LTG	LIGHTING		
MAX	MAXIMUM		
MC	MECHANICAL CONTRACTOR		
MECH	MECHANICAL		
MIN	MINIMUM		
MNTD	MOUNTED		
(N)	NEW		
NR	NEW REPLACEMENT		
N/A	NOT ACCESSIBLE		
NC	NORMALLY CLOSED		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
OS	OCCUPANCY / VACANCY SENSOR		

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2014 NYC BUILDING CODE, 2014 NYC ELECTRIC CODE, NFPA, UL, NYC ENERGY CONSERVATION CODE 2014 AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL RECEPTACLES AND TELEPHONE / DATA OUTLETS, ETC., SHALL BE DETERMINED FROM THE ARCHITECTS DRAWINGS, U.O.N.
- ANY DAMAGE TO EXISTING PARTITIONS, FLOORS, CEILINGS OR ANY PART OF THE BUILDING OR EQUIPMENT CAUSED BY THE WORK OF THE CONTRACT SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL CIRCUIT NUMBERS INDICATED ON PLANS ARE FOR CLARITY ONLY. FIELD CONDITIONS PREVAIL. CIRCUIT NUMBERS ARE INTENDED TO BE USED FOR QUANTITIES AND FOR DESIGNATING WHAT EQUIPMENT WILL BE ON THE SAME CIRCUIT. THEY NEED NOT BE APPLIED LITERALLY FOR ACTUAL CONNECTIONS TO OUTLETS EXCEPT WHERE DRAWINGS CALL FOR SEPARATE NEUTRAL. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS WITH PROPER PHASE SEQUENCING FOR EVERY NEUTRAL WIRE REQUIRED.
- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION.
- 3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED.
- THE USE OF ARMORED CABLE (BX) IS NOT PERMITTED. ALL WIRING BETWEEN THE ELECTRICAL CLOSET AND TENANT AREA SHALL BE IN THHN OR THWN CABLING WITH GREEN GROUND. ANY NEW ADDITIONAL WIRING WITHIN ELECTRICAL CLOSET SHALL BE WITH IN EMT CONDUIT.
- FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL CONNECTION TO MOTORS AND TO RECESSED MOUNTED LIGHTING FIXTURES. LENGTH SHALL NOT EXCEED 6-FT. USE TYPE LFMC IN WET LOCATIONS.
- ALL GROUND CONNECTIONS TO THE BUILDING STEEL SHALL BE EXOTHERMICALLY WELDED.
- PANEL DIRECTORIES FOR PANELBOARDS SHALL BE PROVIDED TO CONFORM TO NEW WORK.
- TWO (2) ADDITIONAL COPIES OF AS-BUILT MARKED-UP DRAWINGS SHOWING CONDUIT RUNS AND CIRCUITING SHALL BE GIVEN TO BUILDING MANAGER AT THE COMPLETION OF THE PROJECTS. PROVIDE DIGITAL COPY IN .PDF FORMAT AS WELL.
- COORDINATE WITH BUILDING MANAGEMENT AND GENERAL CONTRACTOR PRIOR TO ANY SLAB CHOPPING AND CORE DRILLS.
- SEE ARCHITECTURAL DRAWINGS FOR CEILING WORK AND SPECIFICATIONS, COORDINATE WITH GENERAL CONTRACTOR.
- MINIMUM WIRE SIZE #12 AWG.
- ELECTRIC PANELS COVERS ARE NOT TO BE LEFT OFF AT ANY TIME UNLESS WORK IS BEING PERFORMED. COVERS SHALL BE REPLACED EACH NIGHT BEFORE LEAVING JOB SITE.
- BUILDING FIRE ALARM SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING AND AFTER DEMOLITION AND CONSTRUCTION).
- ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING IN ALL AREAS OF CONSTRUCTION. THE CONTRACTOR SHALL CLEARLY LABEL PANELS AND BREAKERS USED FOR LIGHTING. LOCATION OF PANELS TO BE SHOWN ON FLOOR PLAN POSTED AT ENTRANCE TO WORK AREA. PROPER TEMPORARY LIGHTING AND POWER MUST BE INSTALLED AND MAINTAINED IN ALL WORK AREAS. TEMPORARY LIGHT AND POWER STRINGERS SHALL UTILIZE C-TAP TERMINALS. LAMP HOLDS SHALL HAVE LEFT HANDED SCREW SHELL LAMP HOLDERS AND NON-METALLIC LAMP GUARDS. CONNECTIONS TO EXISTING STAIRWELL AND EXIT LIGHT SYSTEMS ARE NOT TEMPORARY. TEMPORARY LIGHTING TO BE REMOVED BY ELECTRICAL CONTRACTOR AFTER COMPLETION OF JOB.
- ALL NEW MATERIALS REQUIRED SHALL CONFORM WITH THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. (UL) IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION, UNLESS OTHERWISE NOTED.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES ON THESE DRAWINGS THE CONTRACTOR SHALL CALL THE ENGINEER FOR CLARIFICATION. IF ENGINEER CANNOT BE REACHED PRIOR TO PRICING THE CONTRACTOR MUST STATE SUCH DISCREPANCIES IN BID PROPOSAL AND BREAK OUT PRICING.
- REFER TO MECHANICAL AND BMS DRAWINGS FOR APPROXIMATE LOCATIONS OF ALL EQUIPMENT REQUIRING POWER. REFER TO PANEL SCHEDULES FOR C.B., WIRE AND CONDUIT SIZE TO EACH EQUIPMENT LOCATION. COORDINATE WITH RESPECTIVE CONTRACTOR FOR EXACT INSTALLED LOCATIONS OF EQUIPMENT TO BE POWERED. EC SHALL PROVIDE LOCAL UNFUSED DISCONNECT SWITCHES AT EACH EQUIPMENT LOCATION.
- ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL AFFECT THE INSTALLATION OF THE WORK. CONTRACTOR SHALL PERFORM THIS, PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- THIS CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS PLASTER, PARTITIONS, WALLS, ETC., AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
- THE CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS AFFECTED BY THESE CHANGES. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED OR REMOVED IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RECONNECTED AND SERVICE REESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THIS ALTERATION.
- IN CONNECTION WITH THE ALTERATIONS AND DEMOLITION TO THE EXISTING BUILDING, THERE WILL BE CERTAIN REMOVALS AND OR RELOCATION OF THE EXISTING ELECTRICAL WORK NECESSARY FOR THE SATISFACTORY PERFORMANCE OF THE WORK. THESE CHANGES CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS, BUT SHOULD BE TAKEN INTO CONSIDERATION BY THE CONTRACTOR IN PREPARING HIS PROPOSAL FOR THIS WORK.
- PERFORM THE WORK AT SUCH TIME AND IN SUCH MANNER AS TO MINIMIZE INTERFERENCE WITH BUILDING'S NORMAL OPERATION. NOTIFY BUILDING REPRESENTATIVES IN ADVANCE EACH TIME A SERVICE OUTAGE OR INTERRUPTION WILL BE REQUIRED FOR THE PERFORMANCE OF SOME PHASE OF THE WORK. SCHEDULE SUCH SERVICE OUTAGE OR INTERRUPTION ONLY AFTER HAVING RECEIVED APPROVAL OF DATE, HOUR, AND TIME INTERVAL REQUIRED THEREOF. SCHEDULE OF WORK AS DIRECTED SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. ALL CORING, CHOPPING, CHASING OF CONCRETE AND WORK WHICH RESULTS IN NOISE SHALL BE ACCOMPLISHED BEFORE 8:00 A.M. OR AFTER 5:00 PM OR ON WEEKENDS. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR. ALL CORE DRILL LOCATIONS SHALL BE VERIFIED IN FIELD WITH THE ARCHITECT, ASBESTOS & STRUCTURAL ENGINEER. CHOPPING OR CHASING CORE WALLS AND MASONRY OF DEMISING PARTITION WALLS IS NOT PERMITTED.
- WHERE MULTIPLE DEVICES ARE TO BE INSTALLED IN A SINGLE AREA SUCH AS WALL SWITCHES FOR LIGHTS, THERMOSTATS, FAN SPEED CONTROL SWITCHES, PROJECTION SCREEN SWITCHES, ETC., CONTRACTOR SHALL SUBMIT A SCALED DRAWING TO THE ENGINEER FOR REVIEW SHOWING THE EXACT LOCATION AND MOUNTING HEIGHTS OF THE VARIOUS DEVICES. DEVICES SHALL BE ARRANGED IN A COORDINATED FASHION. INSTALLATIONS MADE WITHOUT SUCH APPROVAL WILL BE REWORKED AT CONTRACTOR'S EXPENSE.
- START OF WORK AND ALL ACCESS TO BUILDING ELECTRICAL CLOSETS MUST BE COORDINATED WITH THE "BUILDING MANAGEMENT". ANY ELECTRICAL CONTRACTOR WORKING IN AN ELECTRIC CLOSET WITHOUT CONSENT WILL BE BARRED FROM WORKING IN THE BUILDING. CONTRACTOR SHALL NOT START WORK ON ANY LIMITED ACCESS AREAS UNTIL ALL MATERIALS ARE ON SITE.
- THE OPERATION OF THE ELECTRICAL INSTALLATION DOES NOT CONSTITUTE AN ACCEPTANCE OF THE WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM THE STATE AUTHORITIES, MUNICIPAL AUTHORITIES AND UNDERWRITERS.
- ALL AREAS SHALL BE KEPT CLEAN AT ALL TIMES.
- PROVIDE GROUND WIRE IN ALL NEW FEEDERS AND BRANCH CIRCUITS.

SYMBOLS

POWER OUTLETS		CONTROLS / SWITCHES	
	JUNCTION BOX		CORNER/WALL MOUNTED VACANCY SENSOR AS NOTED ON DRAWINGS
	MOTOR		CEILING-MOUNTED VACANCY SENSOR AS NOTED ON DRAWINGS
	UNFUSED DISCONNECT SWITCH		CEILING MOUNTED PHOTO CELL/DAYLIGHT SENSOR
	FUSED DISCONNECT SWITCH - FUSE AMPERAGE NOTED		REWORKED WALL LIGHT SWITCH VACANCY SENSOR COMBINATION
	COMBINATION FUSED DISCONNECT SWITCH / MOTOR STARTER		WALL MOUNTED PIR LINE VOLTAGE WALL SWITCH WIRELESS CONTROLLER
	VARIABLE FREQUENCY DRIVE		DIGITAL TIMECLOCK OVERRIDE SWITCH AS INDICATED ON DRAWINGS
			DIGITAL WALL SWITCH AS INDICATED ON DRAWINGS
			DIGITAL RECEIVER AS INDICATED ON DRAWINGS
			DIGITAL GATEWAY AS INDICATED ON DRAWINGS
			DIGITAL DATA CONTROL PANEL AS INDICATED ON DRAWINGS

DRAWING LIST

SHEET INDEX	
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www.syska.com

VI ASSOCIATES
A CONSTRUCTION CONSULTING FIRM

REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
2	ISSUE FOR 100% CD	07/21/15
3	ISSUE FOR 100% CD	11/19/15
4	ISSUE FOR COMPLIANCE	01/04/16

NEW YORK CITY DEPARTMENT OF DESIGN + CONSTRUCTION

DIVISION OF BUILDINGS
CAPITAL PROJECT NUMBER:
E14-0010
PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)
STATEN ISLAND BOROUGH HALL
10 RICHMOND TERRACE,
STATEN ISLAND, NY 10301

DRAWING TITLE:
ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC20000
	DRAWN BY: MO
	CHECKED BY: HJK
	DRAWING NUMBER: E-001.00
	DATE: NONE
	01 of 07

NYCECC NOTE:
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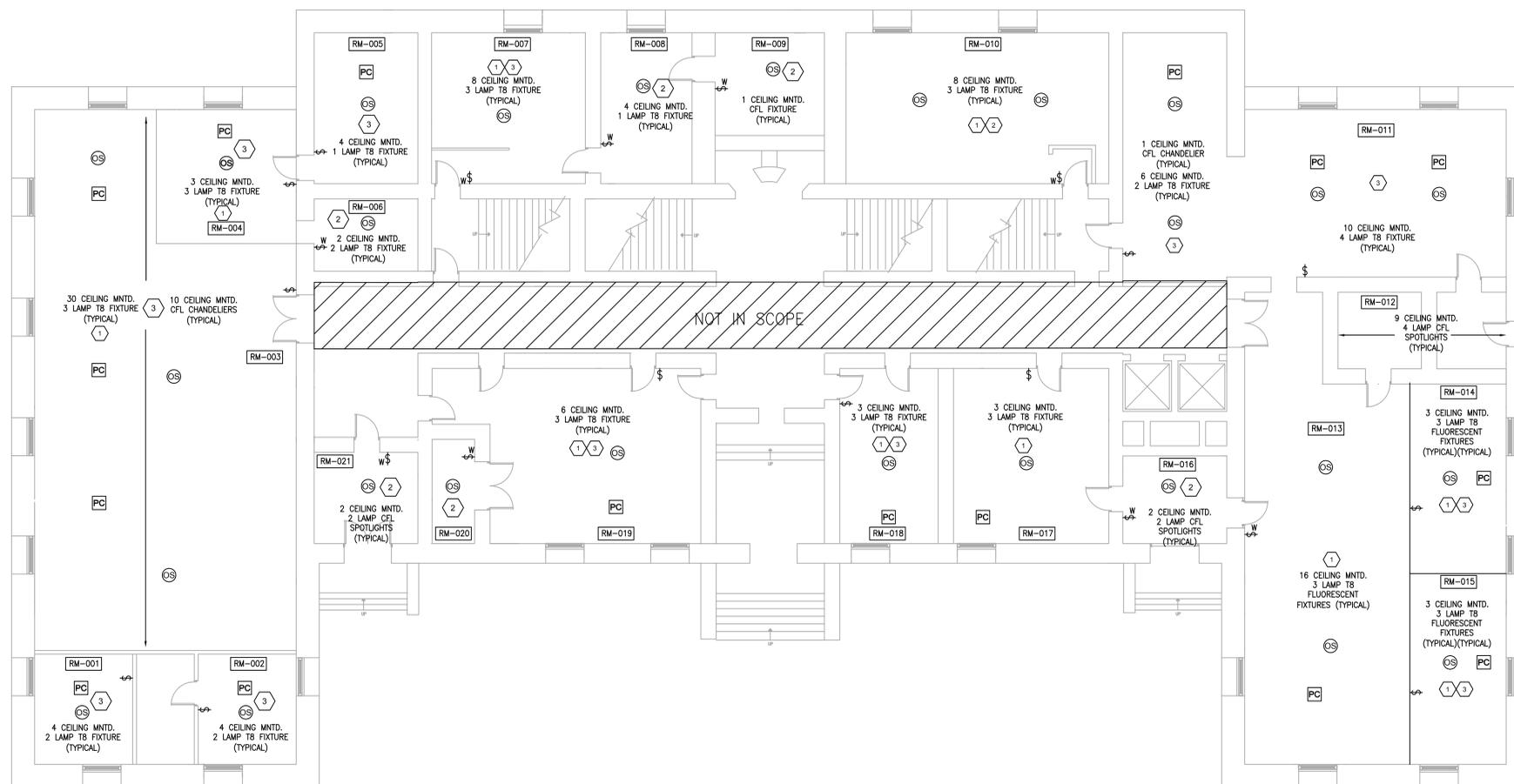
Syska Hennessy Group, Inc.
1515 Broadway
New York, NY 10036
Tel: 212.921.2300
Fax: 212.556.3333
www.syska.com



ASSOCIATES
A CONSTRUCTION CONSULTING FIRM

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- CONTRACTOR SHALL COORDINATE WITH BUILDING ENGINEER AND FACILITIES MANAGER FOR PROPER DISPOSAL OR STORAGE OF EXISTING EQUIPMENT TO BE REMOVED.
- ALL EQUIPMENT TO BE REMOVED SHALL BE DISPOSED OF OR STORED IN A PROPER CODE COMPLIANT MANNER.
- COORDINATE ELECTRICAL OUTAGES AND RECONNECTIONS WITH THE OWNER.
- PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION THAT ARE NECESSARY FOR THE OPERATION OF THE BUILDING.
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- REPLACE EXISTING WALL SWITCH WITH DIGITAL WALL SWITCH WATTSTOPPER MODEL # LMSW-101 OR APPROVED EQUAL. PROVIDE CEILING MOUNTED VACANCY SENSORS WATTSTOPPER MODEL # LMCC-100 OR APPROVED EQUAL. PROVIDE CEILING MOUNTED DAYLIGHT SENSOR WATTSTOPPER MODEL # LMLS-500 OR APPROVED EQUAL. REFER TO DWG. E-501 FOR WIRING DETAIL.

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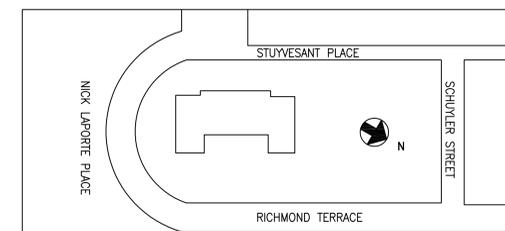


DIVISION OF BUILDINGS
CAPITAL PROJECT NUMBER:
E14-0010
PROJECT
OneNYC
ENERGY
CONSERVATION
MEASURES (ECMs)

STATEN ISLAND BOROUGH HALL
10 RICHMOND TERRACE,
STATEN ISLAND, NY 10301

DRAWING TITLE:
GROUND FLOOR
ELECTRICAL LIGHTING
PLAN

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC20000
	DRAWN BY: MO
	CHECKED BY: HJK
	DRAWING NUMBER: EL-101.00
NONE	02 of 07



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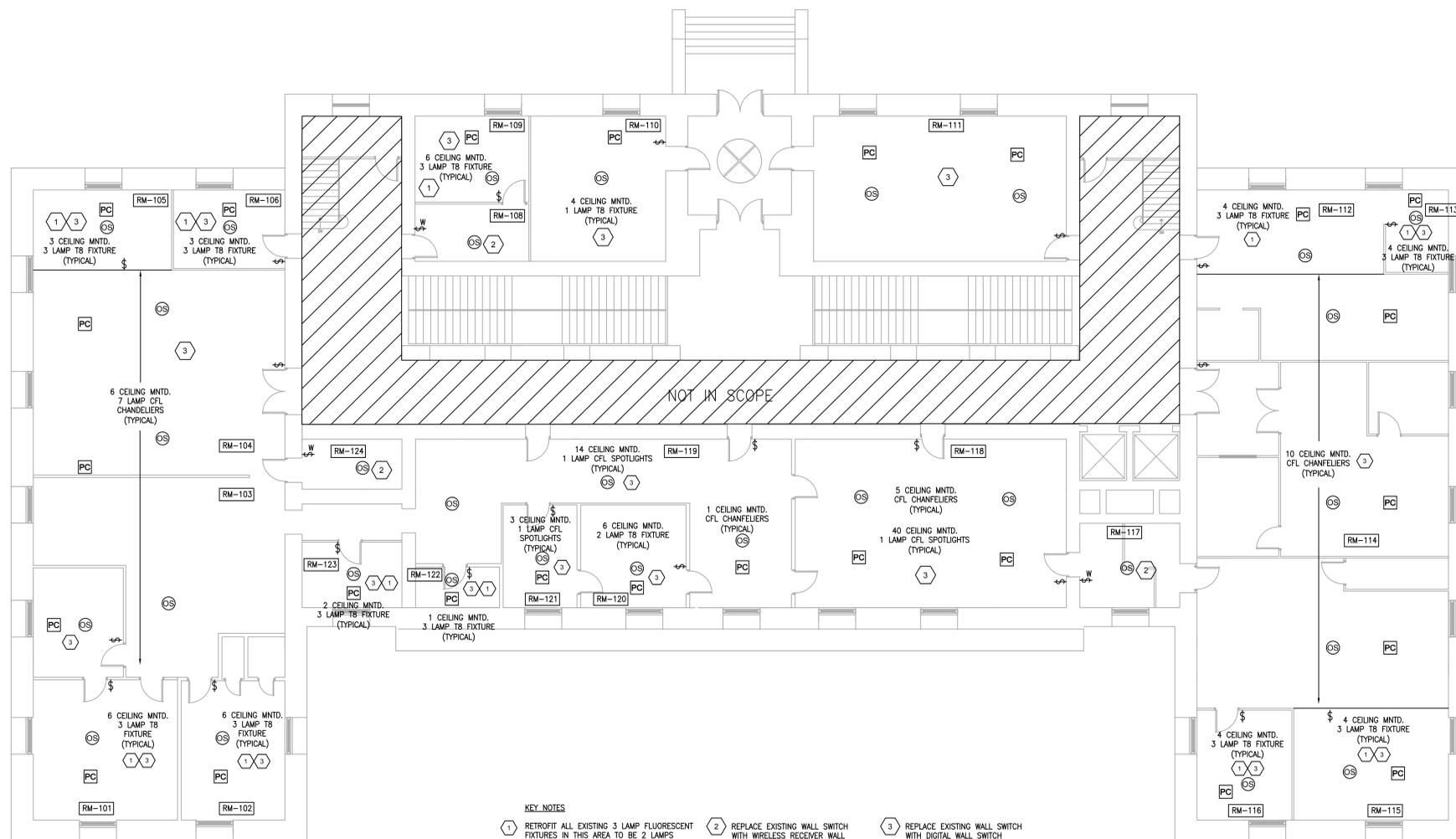
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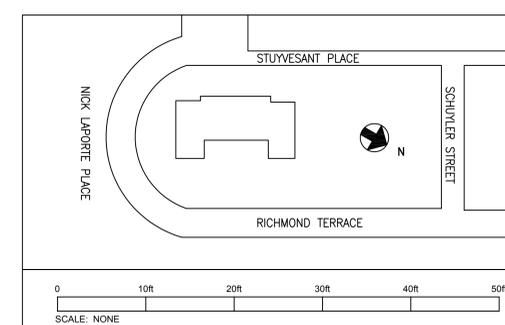
DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER:
E14-0010

PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)

STATEN ISLAND BOROUGH HALL
10 RICHMOND TERRACE,
STATEN ISLAND, NY 10301

DRAWING TITLE:
1ST FLOOR ELECTRICAL LIGHTING PLAN



NYCECC NOTE:
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SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC20000
	DRAWN BY: MO
	CHECKED BY: HJK
	DRAWING NUMBER: EL-102.00
	SCALE: NONE
	03 OF 07



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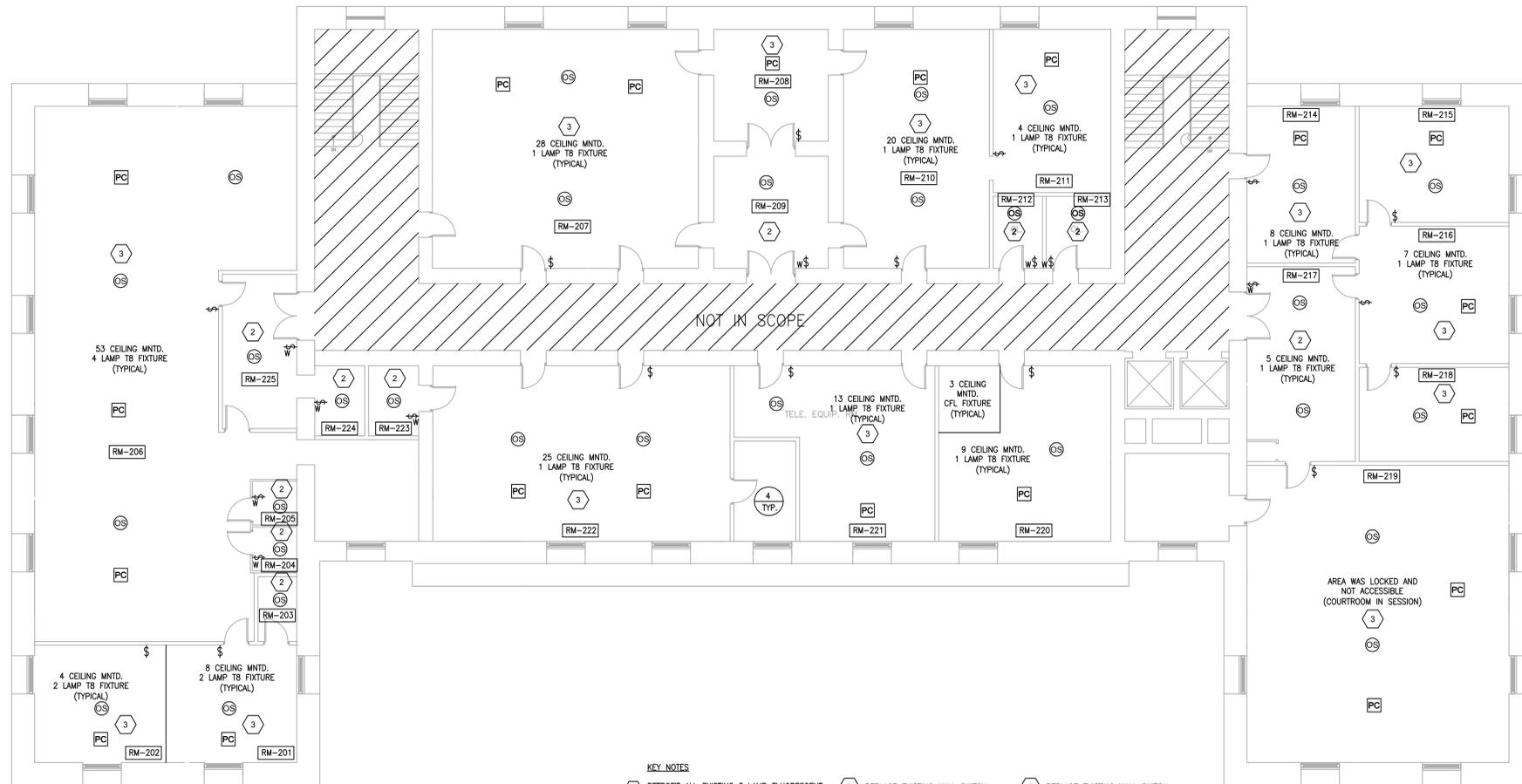


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3



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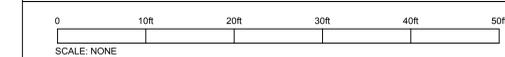
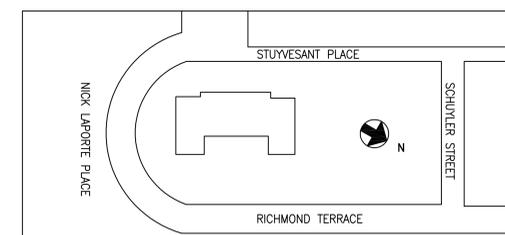
DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER:
E14-0010

PROJECT
OneNYC
ENERGY
CONSERVATION
MEASURES (ECMs)

STAN ISLAND BOROUGH HALL
10 RICHMOND TERRACE,
STATEN ISLAND, NY 10301

DRAWING TITLE:
2ND FLOOR ELECTRICAL
LIGHTING PLAN



NYCECC NOTE:
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SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC20000
	DRAWN BY: MO
	CHECKED BY: HJK
	DRAWING NUMBER: EL-103.00
	DATE: NONE
	OF 07



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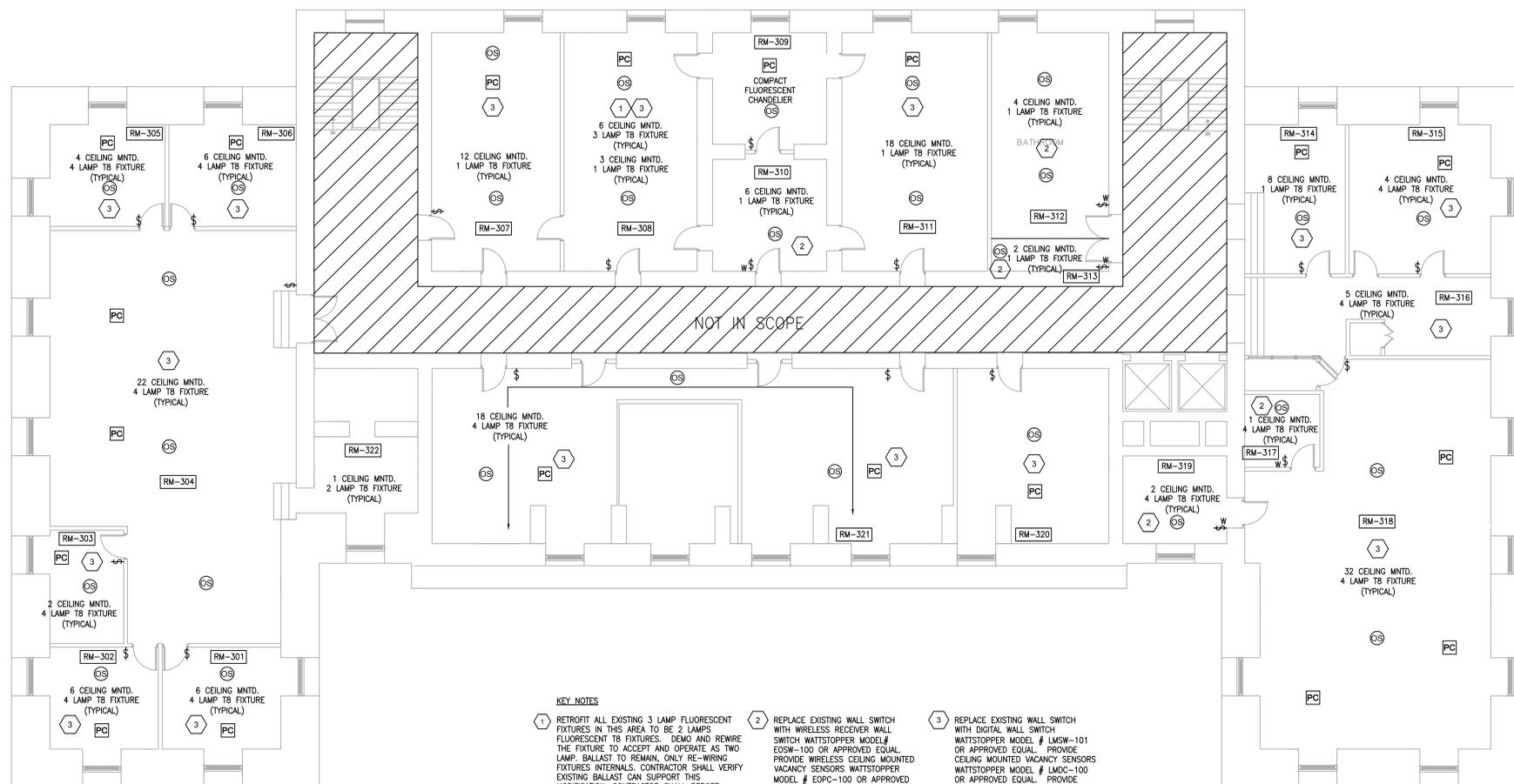
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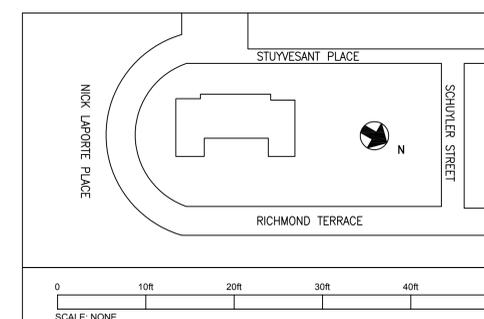
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MEASURES (ECMs)

STATEN ISLAND BOROUGH HALL
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DRAWING TITLE:
3RD FLOOR ELECTRICAL
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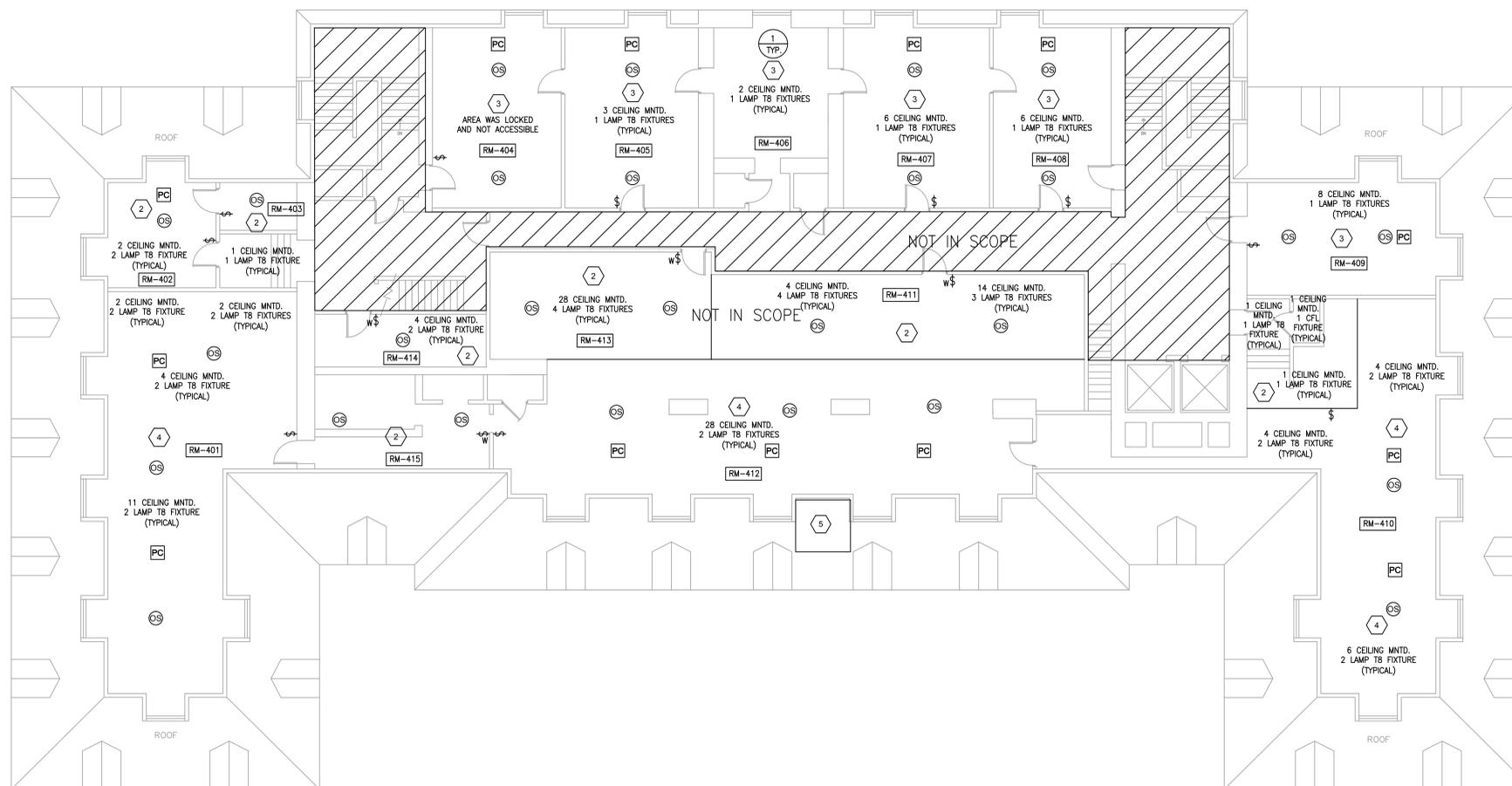
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ASSOCIATES
A CONSTRUCTION CONSULTING FIRM

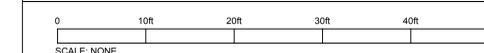
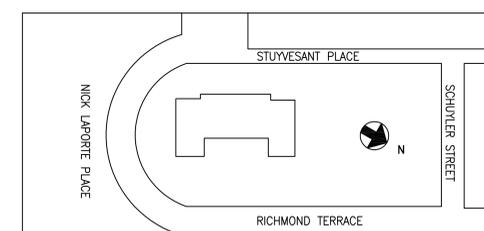
GENERAL NOTES

- PLANS ARE DIAGRAMATIC ONLY. CONTRACTOR SHALL SURVEY AND FIELD VERIFY EXACT NUMBER OF FIXTURES PRIOR TO BID.
- CONTRACTOR SHALL THOROUGHLY CLEAN AND RE-USE EXISTING FIXTURE REFLECTORS AND FACE COVERS UPON FIXTURE UPGRADE.
- CONTRACTOR SHALL COORDINATE WITH BUILDING ENGINEER AND FACILITIES MANAGER FOR PROPER DISPOSAL OR STORAGE OF EXISTING EQUIPMENT TO BE REMOVED.
- ALL EQUIPMENT TO BE REMOVED SHALL BE DISPOSED OF OR STORED IN A PROPER CODE COMPLIANT MANNER.
- COORDINATE ELECTRICAL OUTAGES AND RECONNECTIONS WITH THE OWNER.
- PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION THAT ARE NECESSARY FOR THE OPERATION OF THE BUILDING.
- CIRCUITS AFFECTED BY THE DEMOLITION AND RETROFIT WORK SHALL BE DE-ENERGIZED AT THEIR SOURCE PRIOR TO THE START OF THE DEMOLITION WORK.
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND RETROFIT WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS TO REMAIN SHALL BE RECONNECTED AND RESTORED.
- PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION THAT ARE NECESSARY FOR THE OPERATION OF THE BUILDING.
- CONTRACTOR SHALL FIELD VERIFY MEASUREMENTS, CIRCUITING ARRANGEMENTS AND EXACT FEED SOURCE BEFORE STARTING ANY WORK.
- TOTAL EXISTING APPLIANCE, SWITCH, AND CABLE COUNT SHALL BE INCREASED BY 5% TO ACCOUNT FOR ALL UNKNOWN EXISTING CONDITIONS, PRIOR RENOVATIONS, AND ANY DISCREPANCIES IN AS-BUILT DRAWINGS.
- TOTAL EXISTING FIXTURE AND REPLACEMENT COUNT SHALL BE INCREASED BY 10% TO ACCOUNT FOR ALL UNKNOWN EXISTING CONDITIONS, PRIOR RENOVATIONS, AND ANY DISCREPANCIES IN AS-BUILT DRAWINGS.
- CONTRACTOR SHALL TEST AND TRACE CIRCUITING FOR EXISTING WALL SWITCHES. IN AREAS THAT DO NOT HAVE AN EXISTING LOCAL WALL SWITCH, CONTRACTOR SHALL INTERRUPT THE EXISTING CIRCUIT AND INSTALL A WALL SWITCH, IF NECESSARY, AS DESCRIBED FOR THAT SPACE. REMOVE ALL EXISTING REMOTE WALL SWITCHES CONTROLLING INDIVIDUAL ROOMS TO AVOID HAVING TWO SWITCHES CONTROLLING A SINGLE ROOM, AND THE AREA SHALL BE PROPERLY PATCHED, REPAIRED AND RESTORED TO MATCH THE REST OF THE SPACE.
- IN ALL RESTROOMS CONTRACTOR SHALL COORDINATE LOCATION OF CEILING MOUNTED VACANCY SENSORS WITH EXISTING STALL PARTITIONS.
- INSTALL PHOTOCELL WATTSTOPPER MODEL # LMP0-200 OR APPROVED EQUAL WITH ASSOCIATED LIGHTING CONTROL PANEL, WATTSTOPPER MODEL # LP-8 OR APPROVED EQUAL TO CONTROL ALL LIGHTING WITH DAYLIGHTING CONTROL. LIGHTING NOT TO DROP BELOW NECESSARY SECURITY LIGHTING OUTPUT. LIGHTING CONTROL PANEL SHALL BE LOCATED NEAR PANEL CONTAINING CIRCUITS CONTROLLING LIGHTING FIXTURES. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF PANEL. REFER TO DWG. E-501 DETAIL #4 FOR REFERENCE.
- ALL LIGHTING CONTROL WIRING SHALL BE RUN IN CONCEALED CONDUIT. CONTRACTOR SHALL PATCH AND REPAIR SURFACES AS NEEDED TO MATCH THE INTEGRITY OF THE EXISTING SURFACE. IF THERE ARE ANY DISCREPANCIES IN AN AREA WITH SURFACES DEEMED SENSITIVE TO WORK, THIS ISSUE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND PROJECT COMMISSIONER IMMEDIATELY FOR FURTHER DIRECTION.



KEY NOTES

- RETROFIT ALL EXISTING 3 LAMP FLUORESCENT FIXTURES IN THIS AREA TO BE 2 LAMP FLUORESCENT T8 FIXTURES. DEMO AND REWIRE THE FIXTURE TO ACCEPT AND OPERATE AS TWO LAMP. BALLAST TO REMAIN. ONLY RE-WIRING FIXTURES INTERNALS. CONTRACTOR SHALL VERIFY EXISTING BALLAST CAN SUPPORT THIS MODIFICATION. CONTRACTOR SHALL REPORT DISCREPANCIES TO ENGINEER. NOTE: ANY ROOM NOT SHOWCASING THIS NOTE WILL NOT HAVE THEIR FIXTURES ALTERED.
- REPLACE EXISTING WALL SWITCH WITH WIRELESS RECEIVER WALL SWITCH WATTSTOPPER MODEL # E0SW-100 OR APPROVED EQUAL. PROVIDE WIRELESS CEILING MOUNTED VACANCY SENSORS WATTSTOPPER MODEL # E0PC-100 OR APPROVED EQUAL.
- REPLACE EXISTING WALL SWITCH WITH DIGITAL WALL SWITCH WATTSTOPPER MODEL # LMSW-101 OR APPROVED EQUAL. PROVIDE CEILING MOUNTED VACANCY SENSORS WATTSTOPPER MODEL # LMCV-100 OR APPROVED EQUAL. PROVIDE CEILING MOUNTED DAYLIGHT SENSOR WATTSTOPPER MODEL # LMS-500 OR APPROVED EQUAL. REFER TO DWG. E-501 DETAIL #1 FOR WIRING DETAIL.
- REPLACE EXISTING WALL SWITCH WITH DIGITAL WALL SWITCH WATTSTOPPER MODEL # LMSW-101 OR APPROVED EQUAL. PROVIDE CEILING MOUNTED VACANCY SENSORS WATTSTOPPER MODEL # LMCV-100 OR APPROVED EQUAL. PROVIDE SKYLIGHT MOUNTED DAYLIGHT SENSOR WATTSTOPPER MODEL # LMS-6000 OR APPROVED EQUAL. REFER TO DWG. E-501 DETAIL #2 FOR WIRING DETAIL.
- INSTALL ROOF MOUNTED EXTERIOR PHOTOCELL WITH ASSOCIATED LIGHTING CONTROL PANEL TO CONTROL ALL EXTERIOR LIGHTING WITH DAYLIGHTING CONTROL. LIGHTING NOT TO DROP BELOW NECESSARY SECURITY LIGHTING OUTPUT. LIGHTING CONTROL PANEL SHALL BE LOCATED NEAR PANEL CONTAINING CIRCUITS CONTROLLING EXTERIOR LIGHTING FIXTURES, AND SHALL INTERCEPT EXISTING EXTERIOR LIGHTING CIRCUITS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF PANEL.



NYCECC NOTE:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

BUILDING DEPARTMENT APPROVAL NOTE:
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REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
2	ISSUE FOR 100% CD	07/21/15
3	ISSUE FOR 100% CD	11/19/15
4	ISSUE FOR COMPLIANCE	01/04/16



DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER:
E14-0010

PROJECT
OneNY
ENERGY
CONSERVATION
MEASURES (ECMs)

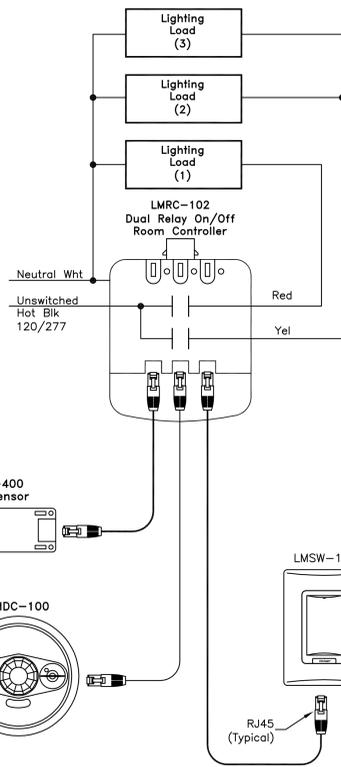
STATEN ISLAND BOROUGH HALL
10 RICHMOND TERRACE,
STATEN ISLAND, NY 10301

DRAWING TITLE:
4TH FLOOR ELECTRICAL
LIGHTING PLAN

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC20000
	DRAWN BY: MO
	CHECKED BY: HJK
DRAWING NUMBER: EL-105.00	
	NONE 06 OF 07

DEDUCT ALTERNATE NOTES

CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE TO RUN ALL CONTROL WIRING, ASSOCIATED WITH KEY NOTES #3 AND #4, IN SURFACE MOUNTED RACEWAY WIREMOLD OR APPROVED EQUAL WITH MINIMAL DISTURBANCE AND INTERFERENCE OF EXISTING INTERIOR SURFACES. THIS SHALL BE PRICED IN REPLACEMENT ON 3/4" EMT CONDUIT IN BASIS OF DESIGN DETAILS.



PRICING EXPLANATION

1. ALL CAT-5e CABLE SHALL BE RUN IN CONCEALED 3/4" EMT CONDUIT.
2. POWER PACKS SHALL BE MOUNTED ABOVE EXISTING CEILING OR WITHIN WALLS TO BE CONCEALED. MOUNT ACCORDING TO MANUFACTURERS' RECOMMENDATIONS FOR PROPER MOUNTING.
3. ASSOCIATED SWITCHES SHALL BE WALL MOUNTED AS NOTED ON PLANS.
4. VACANCY SENSOR AND PHOTOCELL SHALL BE CEILING MOUNTED AS NOTED ON PLANS.
5. ALL WIRING AND WIRE TERMINATIONS SHALL BE CONCEALED AND CONNECTED PER MANUFACTURERS' RECOMMENDATIONS.
6. NUMBER OF APPLIANCES AND SENSORS CONNECTED PER POWER PACK, AND ALL DAISY CHAIN OF APPLIANCES SHALL BE MADE ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.

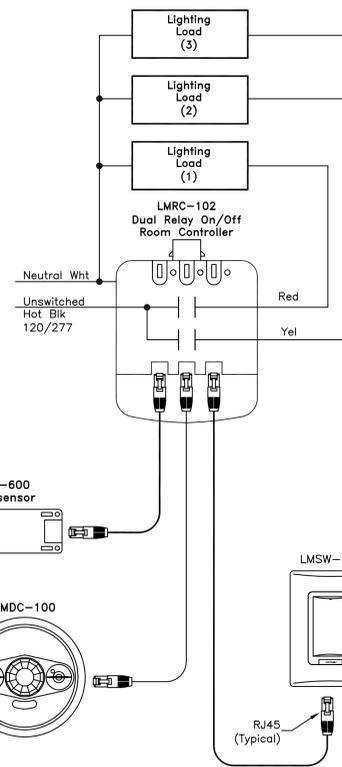
1. THIS DETAIL IS BASED ON WATTSTOPPER MODEL # LMRC-102. CONTRACTOR SHALL HAVE THE RIGHT TO SUBSTITUTE FOR EQUAL APPROVED BY THE ENGINEER.
2. PROVIDE CAT 5e CABLE AS NECESSARY TO MEET DESIGN.
3. REFER TO FLOOR PLANS FOR EXACT NUMBER OF SENSORS AND APPLIANCES PER ASSOCIATED AREA.
4. PHOTOCELLS SHALL BE PROGRAMMED TO TRI-LEVEL SWITCHING SEQUENCE OF OPERATION. REFER TO MANUFACTURER RECOMMENDATION FOR FURTHER INFORMATION.

WIRING DIAGRAM FOR ROOMS CONTAINING DAYLIGHT AND VACANCY SENSORS

1 SCALE: NONE

DEDUCT ALTERNATE NOTES

CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE TO RUN ALL CONTROL WIRING, ASSOCIATED WITH KEY NOTES #3 AND #4, IN SURFACE MOUNTED RACEWAY WIREMOLD OR APPROVED EQUAL WITH MINIMAL DISTURBANCE AND INTERFERENCE OF EXISTING INTERIOR SURFACES. THIS SHALL BE PRICED IN REPLACEMENT ON 3/4" EMT CONDUIT IN BASIS OF DESIGN DETAILS.



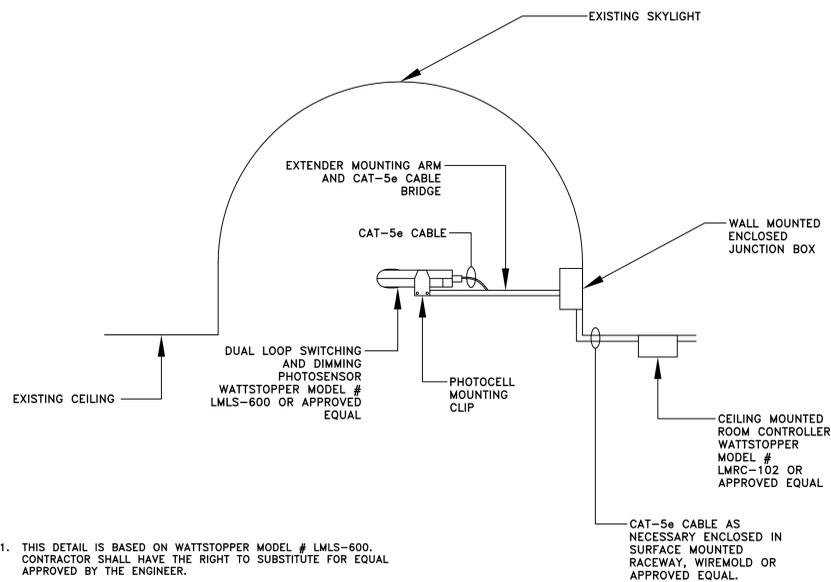
PRICING EXPLANATION

1. ALL CAT-5e CABLE SHALL BE RUN IN CONCEALED 3/4" EMT CONDUIT.
2. POWER PACKS SHALL BE MOUNTED ABOVE EXISTING CEILING OR WITHIN WALLS TO BE CONCEALED. MOUNT ACCORDING TO MANUFACTURERS' RECOMMENDATIONS FOR PROPER MOUNTING.
3. ASSOCIATED SWITCHES SHALL BE WALL MOUNTED AS NOTED ON PLANS.
4. VACANCY SENSOR AND PHOTOCELL SHALL BE CEILING MOUNTED AS NOTED ON PLANS.
5. ALL WIRING AND WIRE TERMINATIONS SHALL BE CONCEALED AND CONNECTED PER MANUFACTURERS' RECOMMENDATIONS.
6. NUMBER OF APPLIANCES AND SENSORS CONNECTED PER POWER PACK, AND ALL DAISY CHAIN OF APPLIANCES SHALL BE MADE ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.

1. THIS DETAIL IS BASED ON WATTSTOPPER MODEL # LMRC-102. CONTRACTOR SHALL HAVE THE RIGHT TO SUBSTITUTE FOR EQUAL APPROVED BY THE ENGINEER.
2. PROVIDE CAT 5e CABLE AS NECESSARY TO MEET DESIGN.
3. REFER TO FLOOR PLANS FOR EXACT NUMBER OF SENSORS AND APPLIANCES PER ASSOCIATED AREA.
4. PHOTOCELLS SHALL BE PROGRAMMED TO TRI-LEVEL SWITCHING SEQUENCE OF OPERATION. REFER TO MANUFACTURER RECOMMENDATION FOR FURTHER INFORMATION.

WIRING DIAGRAM FOR SKYLIGHT DAYLIGHT AND VACANCY SENSORS

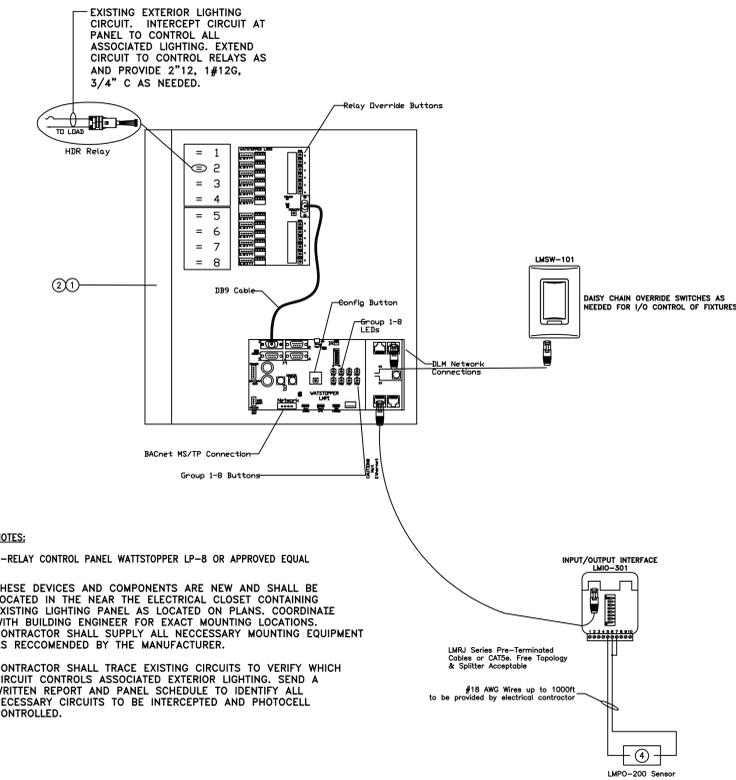
2 SCALE: NONE



1. THIS DETAIL IS BASED ON WATTSTOPPER MODEL # LMLS-600. CONTRACTOR SHALL HAVE THE RIGHT TO SUBSTITUTE FOR EQUAL APPROVED BY THE ENGINEER.
2. PROVIDE CAT 5e CABLE AS NECESSARY TO MEET DESIGN.
3. REFER TO FLOOR PLANS FOR EXACT NUMBER OF SENSORS AND APPLIANCES PER ASSOCIATED AREA.
4. CONTRACTOR SHALL MOUNT PHOTOCELL AND ASSOCIATED EQUIPMENT PER MANUFACTURERS' RECOMMENDATIONS FOR SAFE AND PROPER MOUNTING.

MOUNTING DETAIL FOR SKYLIGHT MOUNTED DAYLIGHT SENSOR

3 SCALE: NONE



- NOTES:**
1. 8-RELAY CONTROL PANEL WATTSTOPPER LP-8 OR APPROVED EQUAL
 2. THESE DEVICES AND COMPONENTS ARE NEW AND SHALL BE LOCATED IN THE NEAR THE ELECTRICAL CLOSET CONTAINING EXISTING LIGHTING PANEL AS LOCATED ON PLANS. COORDINATE WITH BUILDING ENGINEER FOR EXACT MOUNTING LOCATIONS. CONTRACTOR SHALL SUPPLY ALL NECESSARY MOUNTING EQUIPMENT AS RECOMMENDED BY THE MANUFACTURER.
 3. CONTRACTOR SHALL TRACE EXISTING CIRCUITS TO VERIFY WHICH CIRCUIT CONTROLS ASSOCIATED EXTERIOR LIGHTING. SEND A WRITTEN REPORT AND PANEL SCHEDULE TO IDENTIFY ALL NECESSARY CIRCUITS TO BE INTERCEPTED AND PHOTOCELL CONTROLLED.

EXTERIOR PHOTOCELL AND LP-8 RELAY PANEL

4 SCALE: NONE

NYCECC NOTE:
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REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
2	ISSUE FOR 100% CD	07/21/15
3	ISSUE FOR 100% CD	11/19/15
4	ISSUE FOR COMPLIANCE	01/04/16

DDC
NEW YORK CITY DEPARTMENT OF DESIGN + CONSTRUCTION

DIVISION OF BUILDINGS
CAPITAL PROJECT NUMBER:
E14-0010
PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)
STATEN ISLAND BOROUGH HALL
10 RICHMOND TERRACE,
STATEN ISLAND, NY 10301

DRAWING TITLE:
ELECTRICAL DETAILS

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC20000
	DRAWN BY: MO
	CHECKED BY: HJK
	DRAWING NUMBER: E-501.00
	DATE: NONE
	07 of 07

ABBREVIATIONS

1PH 2WAY 3WAY 4WAY	SINGLE-PHASE TWO-WAY THREE-WAY FOUR-WAY	HD HORIZ HP HPC HPS HSPKG HT HTHW HTWR	HEAD HORIZONTAL HORSEPOWER HIGH PRESSURE CONDENSATE HIGH PRESSURE STEAM HOUSEKEEPING HEIGHT HIGH TEMPERATURE HOT WATER HIGH TEMPERATURE HOT WATER VFD RETURN HIGH TEMPERATURE HOT WATER VTR SUPPLY HEATING WATER CIRCULATION HUMIDIFIER HEATING, VENTILATION, AND AIR CONDITIONING HOT WATER HOT WATER PUMP HOT WATER RETURN HOT WATER SUPPLY HERTZ	UON -V- V VAV VOLUME DAMPER VARIABLE FREQUENCY VARIABLE FREQUENCY DRIVE VOLTAGE VENT THROUGH ROOF W WATT W W W/O WB WB WC WG WMS WP WSP	UNLESS OTHERWISE NOTED -V- V VAV VOLUME DAMPER VARIABLE FREQUENCY VARIABLE FREQUENCY DRIVE VOLTAGE VENT THROUGH ROOF W WATT W W W/O WB WB WC WG WMS WP WSP
A/C AAD AAV ACCU	AIR CONDITION AUTOMATIC AIR DAMPER AUTOMATIC AIR VENT AIR COOLED CONDENSING UNIT	HTWC HWM HVC HWA HW HWP HWR HWS HZ	HEATING WATER CIRCULATION HUMIDIFIER HEATING, VENTILATION, AND AIR CONDITIONING HOT WATER HOT WATER PUMP HOT WATER RETURN HOT WATER SUPPLY HERTZ		
ACS ACS ACV ADA ADOL ADJ AF AF AF AFM AHU AHU AIA ALUM AMP APD ARCH AS ASHRAE	AUTOMATIC CONTROL SYSTEM DR ACCESS DOOR AUTOMATIC CONTROL VALVE AMERICAN DISABILITIES ACT ALUMINUM ADJUSTABLE AFTER FILTER ABSORBE FINISHED FLOOR AIR FLOW MEASUREMENT STATION AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT AMERICAN INSTITUTE OF ARCHITECTS ALUMINUM AMPERE AIR PRESSURE DROP ARCHITECT AIR SEPARATOR AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS AUTOMATIC AVERAGE -B- BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BACKFLOW PREVENTER BUTTERFLY VALVE BRAKE HORSE POWER BELOW BUILDING MANAGEMENT SYSTEM BOTTOM OF STEEL BRITISH THERMAL UNIT BRITISH THERMAL UNIT HOUR -C- COOLING COIL CAPACITY COOLING COIL CUBIC FEET PER MINUTE CHILLER CHEMICAL FEED CHILLED WATER PUMP CHILLED WATER RETURN CHILLED WATER SUPPLY CENTER LINE CEILING CEILING DIFFUSER CEILING REGISTER CONDENSATE CARBON MONOXIDE CARBON DIOXIDE CONDENSER CONNECT CONSTRUCTION MANAGER COEFFICIENT OF PERFORMANCE CONTROL PANEL CONDENSATE RETURN PUMP CONSTANT VOLUME CONTROL VALVE CONDENSER WATER PUMP CONDENSER WATER RETURN CONDENSER WATER SUPPLY -D- D D DAP DECEBEL DB DBA DBT DDC DEFL DEG DIA DW DMPR DN DPT DRN DRVL DW DWG DX -E- EAR EAT ECB ECU EDBT EER EF EFF EL ELEC EQ ESP EWBT EWI EXH EXHA EXIST EXP (E) -F- F FA FAI FAS FCU FDMR FN FM GR FLA FLEX FLTR FOP FOR FOS FOTK FP FPI FPM FPS FT FT/LB FTR FV	LAT LBS LD LF FD LH LN LPC LPS LR LTH LTV LVR LWT -M- MAT MAX METU METUH MC MCC MECH MER MFG MFR MHP MIN MINUTE MOD MOTOR MPP MPC MPS MPS MS MSD MTD MTG MTRW MTWS MU -N- NC NIC NO NTS O OA OV -P- PCF PCHWR PCHWS PD PERF PF PH PHC PHWR PHWS PLBO POS PRS PRV PSI PSI PSIA PSIG PTAC R R (R) RA RA RCP REC REFR REG REM REQD RFGT RH RIC RLL RLA RM ROT RPM RRV RSL -S- SA SA REG SE SF SF SOV SP SPEC SQ IN SQ YD SST STNLS STRUCT T TDP TEMP TS TSTAT TYP -U- UON	LEAVING AIR TEMPERATURE POUND(S) LINEAR DIFFUSER LINEAR FEET (FOOT) LAMINAR FLOW DIFFUSER LATENT HEAT LINEAR LINEAR FEET LOW PRESSURE CONDENSATE LOW PRESSURE STEAM LOW RESISTANCE LENGTH LOUVER DOOR LOUVER LEAVING WATER TEMPERATURE -M- MAXIMUM BRITISH THERMAL UNIT (1000) THOUSAND BTU PER HOUR MECHANICAL CONTRACTOR MOTOR CONTROL CENTER MECHANICAL MECHANICAL EQUIPMENT ROOM MANUFACTURING MANUFACTURER MOTOR HORSE POWER MINIMUM MINUTE MODEL MOTOR MEDIUM PRESSURE MEDIUM PRESSURE CONDENSATE MEDIUM PRESSURE STEAM MOTOR STARTER MOTORIZED SMOKE DAMPER MEAN TEMPERATURE DIFFERENCE MOUNTING HEIGHT MEDIUM TEMPERATURE HOT WATER RETURN MEDIUM TEMPERATURE HOT WATER SUPPLY MAKE UP WATER LINE -N- NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE OXYGEN OUTSIDE AIR OUTSIDE DIAMETER OUTSIDE VELOCITY -P- POUNDS PER CUBIC FOOT PRIMARY CHILLED WATER RETURN PRIMARY CHILLED WATER SUPPLY PRESSURE DROP OR DIFFERENCE PRE FILTER PHASE PREHEAT COIL PRIMARY HOT WATER RETURN PRIMARY HOT WATER SUPPLY PLUMBING POSITIVE PRESSURE REDUCING STATION PRESSURE REDUCING VALVE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH, GAGE PACKAGED TERMINAL AIR CONDITIONER THERMAL RESISTANCE RISE REMOVE RETURN AIR GR RETURN AIR GRILLE REG RETURN AIR REGISTER REFLECTED CEILING PLAN RECESSED REFRIGERATION REGISTER REMOVABLE REQUIRED REFRIGERANT RELATIVE HUMIDITY REHEAT COIL REFRIGERANT LIQUID LINE RUNNING LOAD AMPERES ROOM ROTATION REVOLUTIONS PER MINUTE REFRIGERANT RELIEF VENT REFRIGERANT SUCTION LINE -S- SUPPLY AIR SUPPLY AIR REGISTER SMOKE DAMPER STRUCTURAL ENGINEER SUPPLY FAN SQUARE FOOT (FEET) SHUT OFF VALVE STATIC PRESSURE SPECIFICATION SQUARE INCH SQUARE YARD STAINLESS STEEL STRUCTURAL T TOTAL DYNAMIC HEAD TEMPERATURE TOP SPEED THERMOSTAT TURNING VANES TYPICAL -U- UNLESS OTHERWISE NOTED		

SYMBOLS (AS APPLICABLE)

	1 SYMBOLS SCALE NOT TO SCALE	TITLE MARK DETAIL OR PLAN NUMBER - 1 DETAIL OR PLAN REFERENCE LOCATION FOUND IN M-201		SECTION MARK A2T SECTION NUMBER - 1 SECTION FOUND IN M-301		DETAIL BOUNDARY B DETAIL NUMBER - 2		SHEET KEYNOTE		REVISION CLOUD (DELTA 1)		DETAIL REFERENCE DETAIL NUMBER - 1 DETAIL FOUND IN M-301		FEEDER TAG		EQUIPMENT TAG, DESCRIPTION M, MARK NUMBER 1		LOUVER IN DOOR, MINIMUM 1.0 SQUARE FOOT FREE AREA		CONDENSATE		UNDERCUT DOOR		POINT OF CONNECTION		POINT OF DISCONNECTION		SINGLE LINE DUCTWORK (NEW)		SINGLE LINE DUCTWORK (EXISTING)		SINGLE LINE DUCTWORK (EXIST. TO BE DEMOLISHED)		DOUBLE LINE DUCTWORK (NEW)		DOUBLE LINE DUCTWORK (EXISTING)		DOUBLE LINE DUCTWORK (EXISTING TO BE DEMOLISHED)		DUCTWORK WITH ACOUSTIC LINING		DUCT UNDER POSITIVE PRESSURE SUPPLY DUCT OR FAN DISCHARGE		DUCT UNDER NEGATIVE PRESSURE RETURN, EXHAUST OR OUTSIDE AIR		RISE IN DUCTWORK (IN DIRECTION OF AIR FLOW)		DROP IN DUCTWORK (IN DIRECTION OF AIR FLOW)		REHEAT COIL		DUCT TRANSITION		VANED ELBOW		RADIUS ELBOW		DUCT FITTING (SEE DETAILS)		FLEXIBLE DUCT CONNECTION		TRANSFER AIR BOOT (STRAIGHT) (SEE SCHEDULE FOR REQUIREMENTS)		TRANSFER AIR DUCT ELBOW WITH ACOUSTIC LINING		SOUND ATTENUATOR		CEILING SUPPLY DIFFUSER, TYPE A, THROW PATTERN 4-WAY, 100 CFM		CEILING RETURN REGISTER (GRILLE), TYPE A, 100 CFM		CEILING EXHAUST, TYPE A, 100 CFM		CEILING EXHAUST, TYPE A, 100 CFM		EXISTING CEILING SUPPLY TO REMAIN		EXISTING CEILING RETURN TO REMAIN		EXISTING CEILING EXHAUST TO REMAIN		LINEAR SLOT DIFFUSER		12"x6" SIDEWALL SUPPLY REGISTER, 150 CFM		12"x6" SIDEWALL RETURN/EXHAUST REGISTER, 150 CFM		ROUND SUPPLY DIFFUSER		ROUND RETURN DIFFUSER		FLOOR REGISTER (GRILLE)		SINGLE DUCT VAV BOX		SINGLE DUCT VAV BOX WITH ATTENUATOR		DUAL DUCT VAV BOX		FAN POWERED VAV BOX		SHUT-OFF VAV BOX (INLET SIZES AVAILABLE: 5",6",8",10",12",14",16")		SHUT-OFF VAV BOX WITH HYDRONIC HEATING COIL AND OUTLET BOX		COMBINATION SMOKE/FIRE DAMPER AND ACCESS DOOR		FIRE DAMPER AND ACCESS DOOR		SMOKE DAMPER AND ACCESS DOOR		BACK DRAFT DAMPER		AUTOMATIC DAMPER (PNEUMATIC)		AUTOMATIC DAMPER (MOTORIZED)		VOLUME DAMPER		PLUG VALVE		ANGLE GATE VALVE		ANGLE GLOBE VALVE		RELIEF VALVE		SAFETY VALVE		VALVE AND CAP		VALVE AND CAP		BALANCING VALVE AND CAP		GLOBE VALVE		PRESSURE GAUGE		NEEDLE VALVE		BALANCING VALVE		FLEXIBLE CONNECTION		BACKFLOW PREVENTER		BASKET STRAINER		DUPLEX BASKET STRAINER		CONTROL VALVE STATION		PIPE ANCHOR		PRESSURE DRIP ASSEMBLY - LOW		PRESSURE DRIP ASSEMBLY - MEDIUM		PRESSURE DRIP ASSEMBLY - HIGH		PUMP SUCTION DIFFUSER		PRESSURE REDUCING VALVE STATION		Y TYPE STRAINER		DRAIN VALVE		THERMOMETER GAUGE		TRAP (TYPE AS NOTED)		PUMP		AQUISTAT		TEMPERATURE TRANSMITTER		VACUUM BREAKER		BALL JOINT		CAPPED OUTLET		EXPANSION JOINT		EXPANSION LOOP		PIPING CONN.-BLW		PIPING CONN.-DWN		PIPING CONN.-UP		REDUCER CONCENTRIC		THERMOSTAT		WALL SWITCH		HUMIDISTAT		HUMIDIFIER		SMOKE DETECTOR		PRESSURE SENSOR		FLOW SWITCH		PRESSURE SWITCH
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GENERAL NOTES

- ALL WORK SHALL CONFORM TO CURRENT BUILDING STANDARDS, INTERNATIONAL MECHANICAL CODE 2009 EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES, AND LICENSES.
- PROVIDE 6 COPIES OF SUBMITTAL MATERIAL WITH DESCRIPTIVE DATA FOR ALL PRODUCTS AND MATERIALS.
- UPON COMPLETION OF WORK, CONTRACTOR SHALL CLEAN AND REMOVE ALL DEBRIS ASSOCIATED WITH HIS/HER WORK AND DISPOSE OF IT. AREA SHALL BE LEFT IN A CONDITION ACCEPTABLE TO OWNER.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY ADVERSE FIELD CONDITIONS PRIOR TO PERFORMING ANY WORK.
- BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND OF THE PRESENT INSTALLATIONS TO WHICH CONNECTIONS MUST BE MADE OR WHICH MUST BE CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN, AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS, REQUIREMENTS, AND PRACTICES AT THE SITE.
- DAMAGE TO OTHER WORK: REPAIR ANY DAMAGE CAUSED BY THIS SECTION TO WORK OF OTHER SECTIONS. DAMAGE TO FIREPROOFING: REPAIR ANY DAMAGED FIREPROOFING CAUSED BY THIS SECTION TO INTEGRITY OF ORIGINAL CONSTRUCTION. INSULATION: FURNISH INSULATION FOR ALL EQUIPMENT AND DISTRIBUTION SYSTEM THAT PERMIT HEAT LOSS OR GAIN OR WILL FORM CONDENSATION. REPLACE ANY DAMAGED OR REMOVED INSULATION ON EXISTING SYSTEMS.
- WHERE REQUIREMENTS BETWEEN GOVERNING CODES AND REGULATIONS VARY, THE MORE STRINGENT SHALL APPLY.
- LOCATION OF EQUIPMENT IS APPROXIMATE. ALL DRAWINGS AND LAYOUTS ARE DIAGRAMMATIC TO SHOW DESIGN INTENT ONLY. CONTRACTOR TO COORDINATE ALL EQUIPMENT AND PIPING WITH ALL OTHER NEW WORK AND EXISTING CONDITIONS. IF FIELD CONDITIONS DIFFER SIGNIFICANTLY FROM THOSE SHOWN ON THE DRAWINGS AND AFFECT MECHANICAL WORK, INFORM ENGINEER IMMEDIATELY BEFORE PROCEEDING WITH THAT AREA.

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LIFE SAFETY NOTES

- DISCONNECT FIRE ALARM DEVICE PRIOR TO ANY WORK ON AIR HANDLERS. RECONNECT FIRE ALARM DEVICES UPON COMPLETION OF WORK.

REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
2	ISSUE FOR 100% CD	07/21/15
3	ISSUE FOR 100% CD	11/19/15
4	ISSUE FOR COMPLIANCE	01/04/16

NEW YORK CITY DEPARTMENT OF DESIGN + CONSTRUCTION

DIVISION OF BUILDINGS
CAPITAL PROJECT NUMBER:
E14-0010
PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)

QUEENS SUPREME COURT
8811 SUTPHIN BOULEVARD,
JAMAICA, NY 11435

DRAWING TITLE:
MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC21000
	DRAWN BY: JM
	CHECKED BY: HJK
	DRAWING NUMBER: M-001.00
	SHEET: NONE
	OF 05

MISCELLANEOUS

NYCECC NOTE:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

BUILDING DEPARTMENT APPROVAL NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

FLOOD ZONE COMPLIANCE NOTE:
THIS PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD AREA (SFHA).

SHEET INDEX

MECHANICAL SHEET INDEX	
NUMBER	TITLE
M-001.00	MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS
M-101.00	GROUND FLOOR MECHANICAL PLAN
M-102M.00	2ND FLOOR MEZZANINE MECHANICAL PLAN
M-104M.00	4TH FLOOR MEZZANINE MECHANICAL PLAN
M-108.00	8TH FLOOR MECHANICAL PLAN

NYCECC NOTE:
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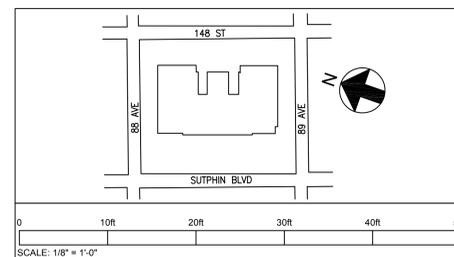
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1515 Broadway
New York, NY 10036
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Fax: 212.556.3333
www.syska.com



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NOTES:
1. THIS DRAWING IDENTIFIES LOCATIONS OF EXISTING AHU. REFER TO DRAWING B-301 AND B-302 FOR BMS SCOPE AFFECTING THESE UNITS.



NYCECC NOTE:
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DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER: E14-0010

PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)

QUEENS SUPREME COURT
8811 SUTPHIN BOULEVARD,
JAMAICA, NY 11435

DRAWING TITLE:
2ND FLOOR MEZZANINE MECHANICAL PLAN

SEAL & SIGNATURE

DATE: 11/19/15
PROJECT NO: DDC21000
DRAWN BY: JM
CHECKED BY: HJK
DRAWING NUMBER: **M-102M.00**

SCALE: 1/8" = 1'-0" 03 OF 05



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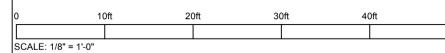
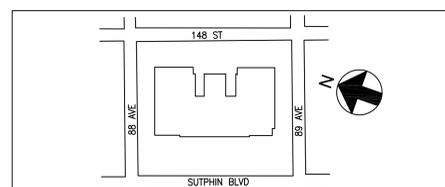
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4	ISSUE FOR COMPLIANCE	01/04/16



DIVISION OF BUILDINGS
CAPITAL PROJECT NUMBER:
E14-0010
PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)

QUEENS SUPREME COURT
8811 SUTPHIN BOULEVARD,
JAMAICA, NY 11435

DRAWING TITLE:
4TH FLOOR MEZZANINE MECHANICAL PLAN

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC21000
	DRAWN BY: JM
	CHECKED BY: HJK
	DRAWING NUMBER: M-104M.00
	SCALE: 1/8" = 1'-0" 04 OF 05



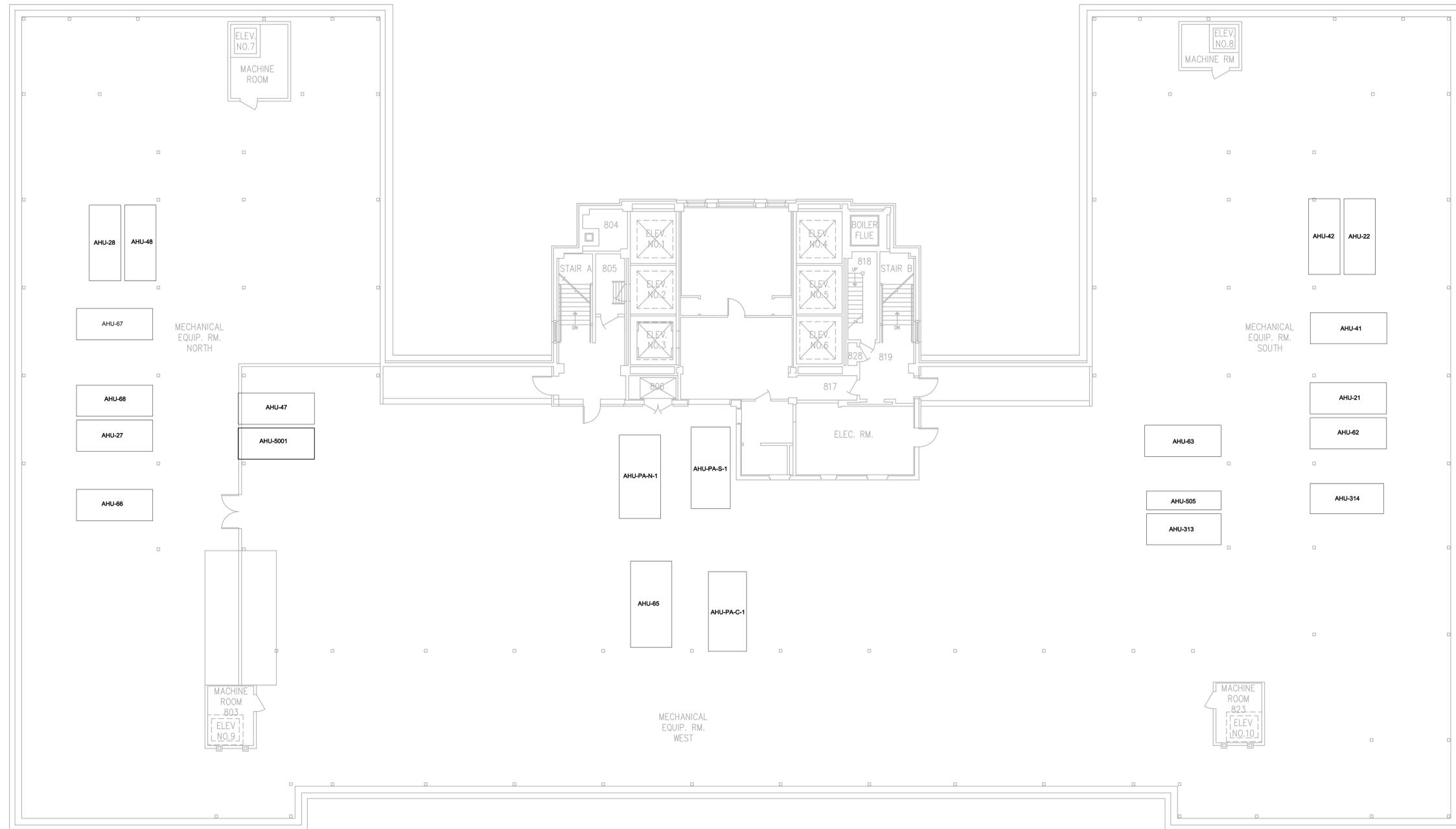
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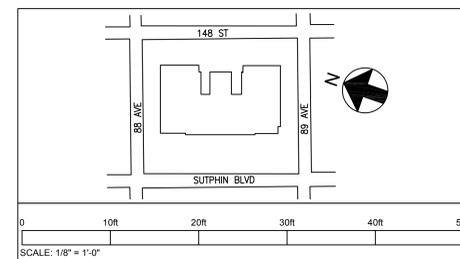
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DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER:
E14-0010

PROJECT
**OneNYC
ENERGY
CONSERVATION
MEASURES (ECMs)**

**QUEENS SUPREME COURT
8811 SUTPHIN BOULEVARD,
JAMAICA, NY 11435**

DRAWING TITLE:
**8TH FLOOR MECHANICAL
PLAN**

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC21000
	DRAWN BY: JM
	CHECKED BY: HJK
DRAWING NUMBER: M-108.00	DATE: 11/19/15
SCALE: 1/8" = 1'-0"	05 OF 05

SYMBOLS LEGEND

EQUIPMENT LABELS	CONTROL LABELS
SUPPLY FAN	ANALOG INPUT
RETURN FAN	ANALOG OUTPUT
PUMP	DIGITAL INPUT
2-POSITION PNEUMATIC DAMPER	DIGITAL OUTPUT
MODULATING PNEUMATIC DAMPER	COMMON ALARM
2-POSITION MOTORIZED DAMPER	CURRENT SENSOR
MODULATING MOTORIZED DAMPER	CARBON DIOXIDE TRANSMITTER
2-WAY PNEUMATIC VALVE	FLOW TRANSMITTER
3-WAY PNEUMATIC VALVE	FAN SPEED CONTROL
2-WAY MOTORIZED VALVE	FREEZESTAT
3-WAY MOTORIZED VALVE	HUMIDITY TRANSMITTER
COOLING COIL	HIGH LEVEL ALARM
PRE-HEAT COIL	PRESSURE SWITCH - HIGH
HEATING COIL	PRESSURE SWITCH - LOW
MAGNETIC STARTER	PRESSURE TRANSMITTER
VARIABLE FREQUENCY DRIVE	SMOKE DETECTOR
ELECTRONIC-TO-PNEUMATIC TRANSDUCER	START / STOP
AIR FLOW MONITORING STATION	STATIC PRESSURE TRANSMITTER
FILTER	STATUS
AVERAGING ELEMENT	TEMPERATURE CONTROL DAMPER
	TEMPERATURE CONTROL VALVE
	TEMPERATURE STAT
	TEMPERATURE TRANSMITTER

NOTE:
FOR POINT ABBREVIATIONS, REFER TO INDIVIDUAL SYSTEMS POINT LIST.

NOT ALL SYMBOLS SHOWN ARE APPLICABLE. SOME SYMBOLS ARE SHOWN TO FACILITATE REVISIONS AND CHANGES IN THE SCOPE OF WORK.

BMS NOTES

1. THE QUEENS SUPREME COURT IS CURRENTLY SERVED BY A BUILDING MANAGEMENT SYSTEM (BMS). ADDITIONAL MONITORING, SOFTWARE AND GRAPHICS WILL BE ADDED TO THE EXISTING BMS UNDER THIS CONTRACT.
2. THE BMS CONTRACTOR SHALL INSTALL NEW AIR FLOW MONITORING STATIONS AND ASSOCIATED WIRING.
3. THE BMS CONTRACTOR SHALL INSTALL NEW AHU RETURN AIR CO2 SENSORS AND ASSOCIATED WIRING.
4. THE BMS CONTRACTOR SHALL REPLACE HVAC-1 OUTSIDE AIR DAMPER ACTUATOR TO MODULATING TYPE.
5. THE BMS CONTRACTOR SHALL PROVIDE SOFTWARE PROGRAMMING AND CONTROL SEQUENCES TO MEET APPROVED ENERGY CONSERVATION MEASURES (ECM) FOR THIS SITE.
6. ALL EXISTING SYSTEMS SAFETIES (FIRE ALARM, MECHANICAL, ETC.) ARE TO REMAIN 100% OPERATIONAL UNDER THIS SCOPE OF WORK.
7. THE EXISTING SITE MECHANICAL SYSTEMS DAY-TO-DAY OPERATIONS CANNOT BE DISTURBED DURING THE INSTALLATION AND INTEGRATION OF CO2 SENSORS, AIR FLOW MEASURING STATIONS AND DEMAND CONTROL VENTILATION SEQUENCE OF OPERATIONS. THIS SCOPE SHALL BE INSTALLED IN PARALLEL WITH EXISTING CONTROLS.
8. THE BMS CONTRACTOR SHALL AUGMENT EXISTING SYSTEM GRAPHICS TO INDICATE NEW AIRFLOW AND CO2 SENSING AT EACH MAJOR AHU. REFER TO CONTRACT DRAWINGS FOR QUANTITIES AND LOCATIONS.
9. THE BMS CONTRACTOR SHALL PROVIDE DDC CONTROLLER STARTUP AND COMMISSIONING SUPPORT TO Cx AGENT.
10. REFER TO SPECIFICATION 230900 FOR ADDITIONAL REQUIREMENTS, INFORMATION AND SCOPE OF WORK.

SHEET INDEX

BMS SHEET INDEX	
NUMBER	TITLE
B-001.00	BMS COVER SHEET
B-301.00	BMS MECHANICAL CONTROLS AIR SIDE
B-302.00	BMS MECHANICAL CONTROLS AIR SIDE

EQUIPMENT LIST	
LOCATION	EQUIPMENT TAG
CELLAR FAN RM	HVAC-1
2ND FLOOR MEZZ.	AHU-23
2ND FLOOR MEZZ.	AHU-24
2nd FLOOR MEZZ.	AHU-25
2nd FLOOR MEZZ.	AHU-26
4TH FLOOR MEZZ.	AHU-43
4TH FLOOR MEZZ.	AHU-44
4th FLOOR MEZZ.	AHU-45
4th FLOOR MEZZ.	AHU-46
4th FLOOR MEZZ.	AHU-4006
8TH FLOOR ATTIC	AHU-21
8TH FLOOR ATTIC	AHU-22
8TH FLOOR ATTIC	AHU-27
8TH FLOOR ATTIC	AHU-28
8th FLOOR ATTIC	AHU-41
8th FLOOR ATTIC	AHU-42
8th FLOOR ATTIC	AHU-47
8th FLOOR ATTIC	AHU-48
8th FLOOR ATTIC	AHU-62
8th FLOOR ATTIC	AHU-63
8th FLOOR ATTIC	AHU-65
8th FLOOR ATTIC	AHU-66
8th FLOOR ATTIC	AHU-67
8th FLOOR ATTIC	AHU-68
8th FLOOR ATTIC	AHU-313
8th FLOOR ATTIC	AHU-314
8th FLOOR ATTIC	AHU-505
8th FLOOR ATTIC	AHU-5001

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REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
2	ISSUE FOR 100% CD	07/21/15
3	ISSUE FOR 100% CD	11/19/15
4	ISSUE FOR COMPLIANCE	01/04/16

DDG
NEW YORK CITY DEPARTMENT OF DESIGN + CONSTRUCTION

DIVISION OF BUILDINGS
CAPITAL PROJECT NUMBER:
E14-0010
PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)
QUEENS SUPREME COURT
8811 SUTPHIN BOULEVARD,
JAMAICA, NY 11435

DRAWING TITLE:
BMS COVER SHEET

NYCECC NOTE:
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SEAL & SIGNATURE:

DATE: 11/19/15
PROJECT NO: DDC21000
DRAWN BY: JY
CHECKED BY: HJK
DRAWING NUMBER: **B-001.00**
DATE: NONE
OF 03



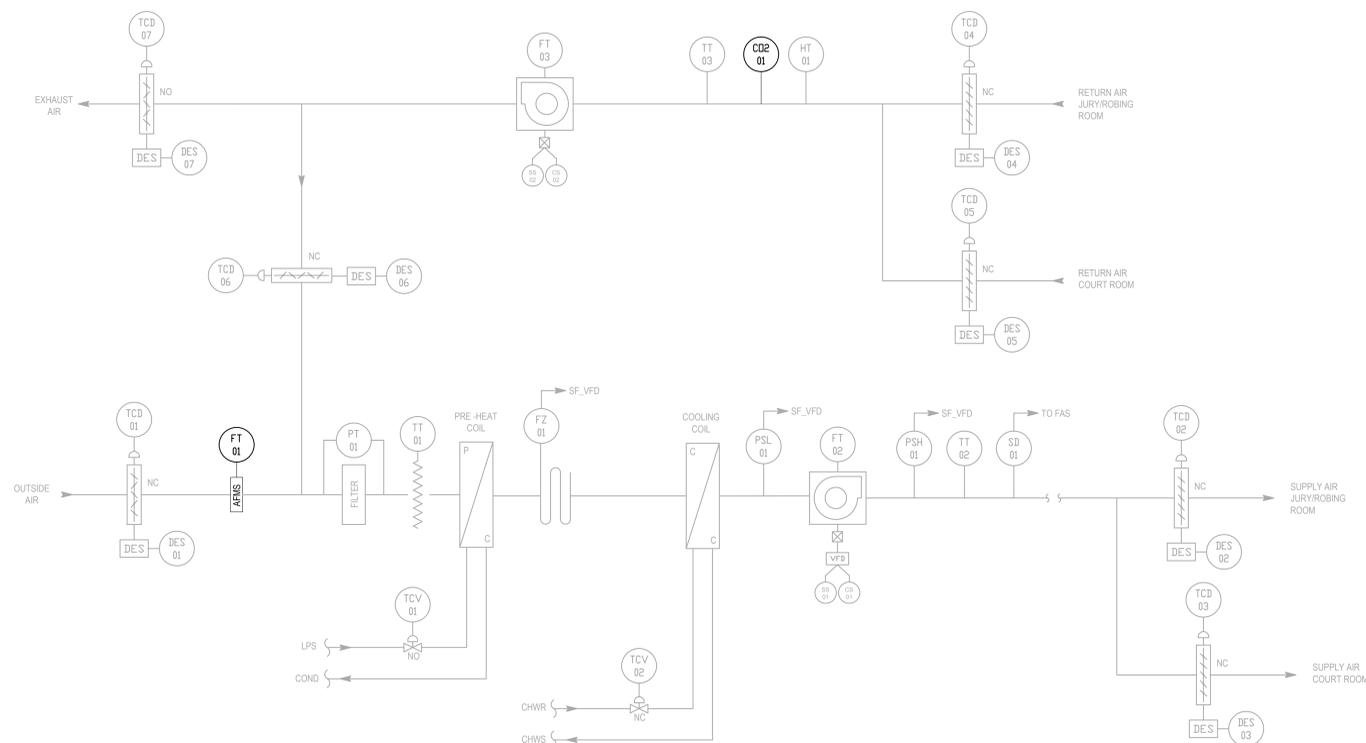
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1 CONSTANT AIR VOLUME SYSTEM (TYP. OF 27)
NTS

AIR SYSTEM SCHEDULE		
UNIT TAG	Minimum OA CFM	Reduced Min. OA CFM
AHU-26	919	138
AHU-24	881	132
AHU-25	1042	156
AHU-4006	552	83
AHU-46	760	114
AHU-43	783	117
AHU-44	687	103
AHU-45	686	103
AHU-23	783	117
AHU-47	792	119
AHU-5001	426	64
AHU-65	2228	334
AHU-68	655	98
AHU-28	754	113
AHU-48	754	113
AHU-66	668	100
AHU-67	685	103
AHU-21	795	119
AHU-22	815	122
AHU-313	476	71
AHU-314	596	89
AHU-41	795	119
AHU-42	815	122
AHU-501	360	54
AHU-505	290	44
AHU-62	890	134
AHU-63	680	102

CONTROL POINTS LIST											
ID NO.	DESCRIPTION	UNITS	DI				DO	AI	AO	TRENDRG (Y/N)	TRENDRG INTERVAL
			DI	DO	AI	AO					
HARDWIRED POINTS											
CO2-01	CARBON DIOXIDE TRANSMITTER - RETURN AIR	PPM			X			X		Y	1:00
FT-01	FLOW TRANSMITTER - OUTSIDE AIR	CFM			X			X		Y	1:00
TCD-01	TEMPERATURE CONTROL DAMPER - OUTSIDE AIR	%					X	X		Y	1:00
TCD-06	TEMPERATURE CONTROL DAMPER - RETURN AIR	%					X	X		Y	1:00
TCD-07	TEMPERATURE CONTROL DAMPER - EXHAUST AIR	%					X	X		Y	1:00

SEQUENCE OF OPERATIONS

BMS CONTRACTOR SHALL ADD THE FOLLOWING TO THE EXISTING UNIT SEQUENCE OF OPERATION:

- A. ENTHALPY ECONOMIZER CYCLE IS ACTIVE AT ALL TIMES AND WILL INTERACT WITH DEMAND CONTROL VENTILATION PROGRAM. WHEN OA DAMPER IS BETWEEN DESIGN MINIMUM OA AND REDUCED MINIMUM OA, SYSTEM SHALL OPERATE TO THE MOST DEMANDING CRITERIA, DEMAND CONTROL VENTILATION OR ECONOMIZER PROGRAM.
- B. CO2 CONTROL:
 - IN NORMAL OPERATION, AS WORST CASE OF EITHER AHU RETURN AIR CO2 OR SPACE CO2 IS MEASURED, THE AHU SHALL MODULATE BETWEEN MINIMUM OA TO REDUCED MINIMUM OA. OA DAMPER SHALL OPERATE IN THE FOLLOWING MANNER:
 - a. CO2 LEVELS BETWEEN 450PPM AND 650PPM ABOVE OA CO2 SENSOR LEVEL: OA DAMPER SHALL POSITION TO REDUCED MINIMUM OA SETTING.
 - b. CO2 LEVELS ABOVE 650PPM: OA DAMPER SHALL MODULATE BASED ON SCHEDULED MINIMUM OA POSITION.
 - c. BASED ON A DECREASE OF 100PPM (ADJ.), AT EACH STAGE, THE SYSTEM SHALL STAGE DOWN IN REVERSE.
- B. DURING PROGRAMMING OF DEMAND CONTROL VENTILATION (DCV), BMS CONTRACTOR SHALL CONFIRM THAT EXISTING ECONOMIZER PROGRAM IS AVAILABLE AT ALL TIMES AND IS CAPABLE OF PROVIDING 100% OUTDOOR AIR AND MECHANICAL COOLING AS REQUIRED TO MEET BUILDING LOAD, IN COMPLIANCE WITH THE NYCDEC. IN ADDITION, BMS CONTRACTOR TO MODIFY, IF REQUIRED, THE EXISTING ENTHALPY ECONOMIZER CYCLE PROGRAM TO MEET THIS REQUIREMENT.

NOTE:

CONTROL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND THE CONTROL DIAGRAMS AND SEQUENCES OF OPERATIONS DESCRIBE THE DESIGN INTENT FOR THE MECHANICAL EQUIPMENT. THE BMS POINTS ARE BEING SHOWN FOR THE EQUIPMENT THEY CONTROL AND MONITOR. THE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE CONTROLS IN THE FIELD FOR A FULLY FUNCTIONING SYSTEM.
ALL EQUIPMENT INDICATED IN BOLD ARE NEW EQUIPMENT REQUIRING INSTALLATION BY BMS CONTRACTOR.
ALL EQUIPMENT DOWNSHADED ARE EXISTING EQUIPMENT.

REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
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DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER:
E14-0010

PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)

QUEENS SUPREME COURT
8811 SUTPHIN BOULEVARD,
JAMAICA, NY 11435

DRAWING TITLE:
BMS MECHANICAL CONTROLS AIR SIDE

NYCECC NOTE:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.
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SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC21000
	DRAWN BY: JY
	CHECKED BY: HJK
	DRAWING NUMBER: B-301.00
	SCALE: NONE
	DATE: 02 OF 03



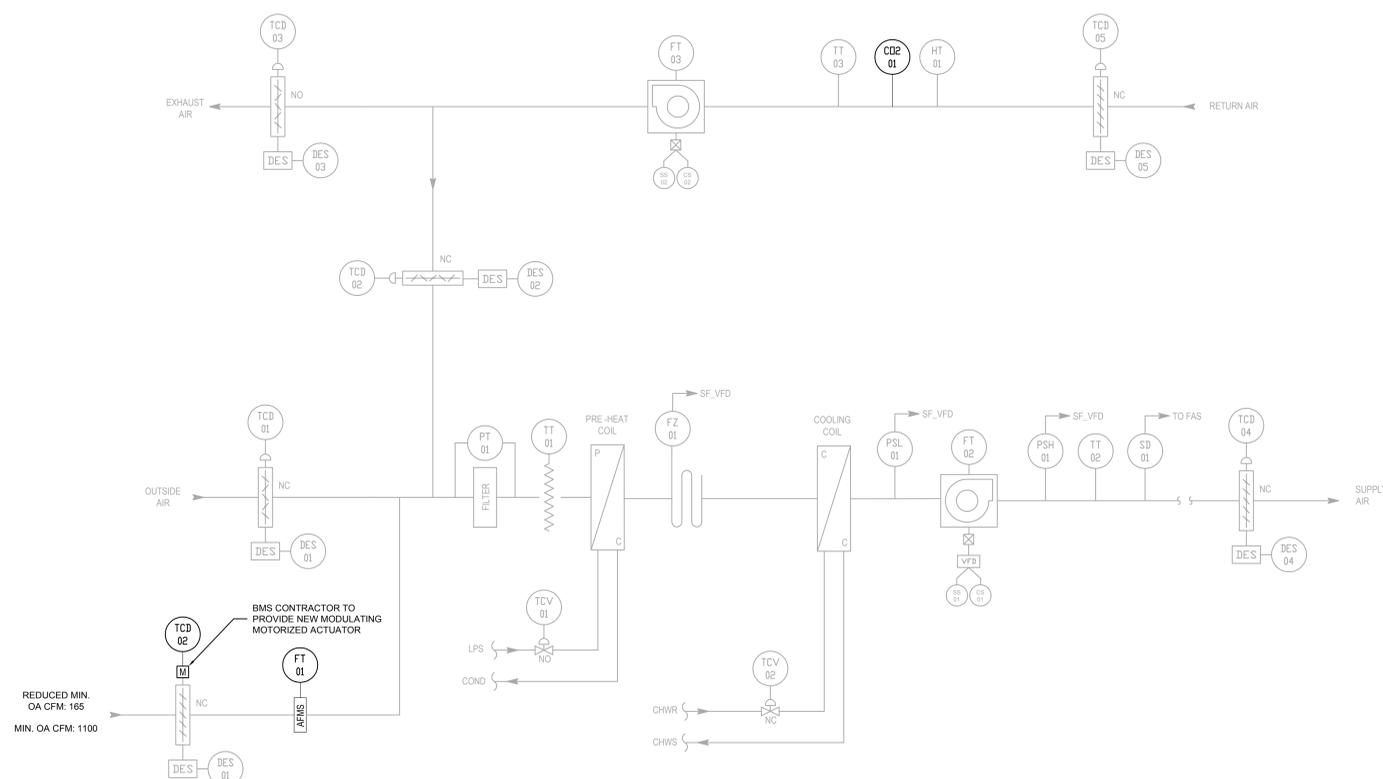
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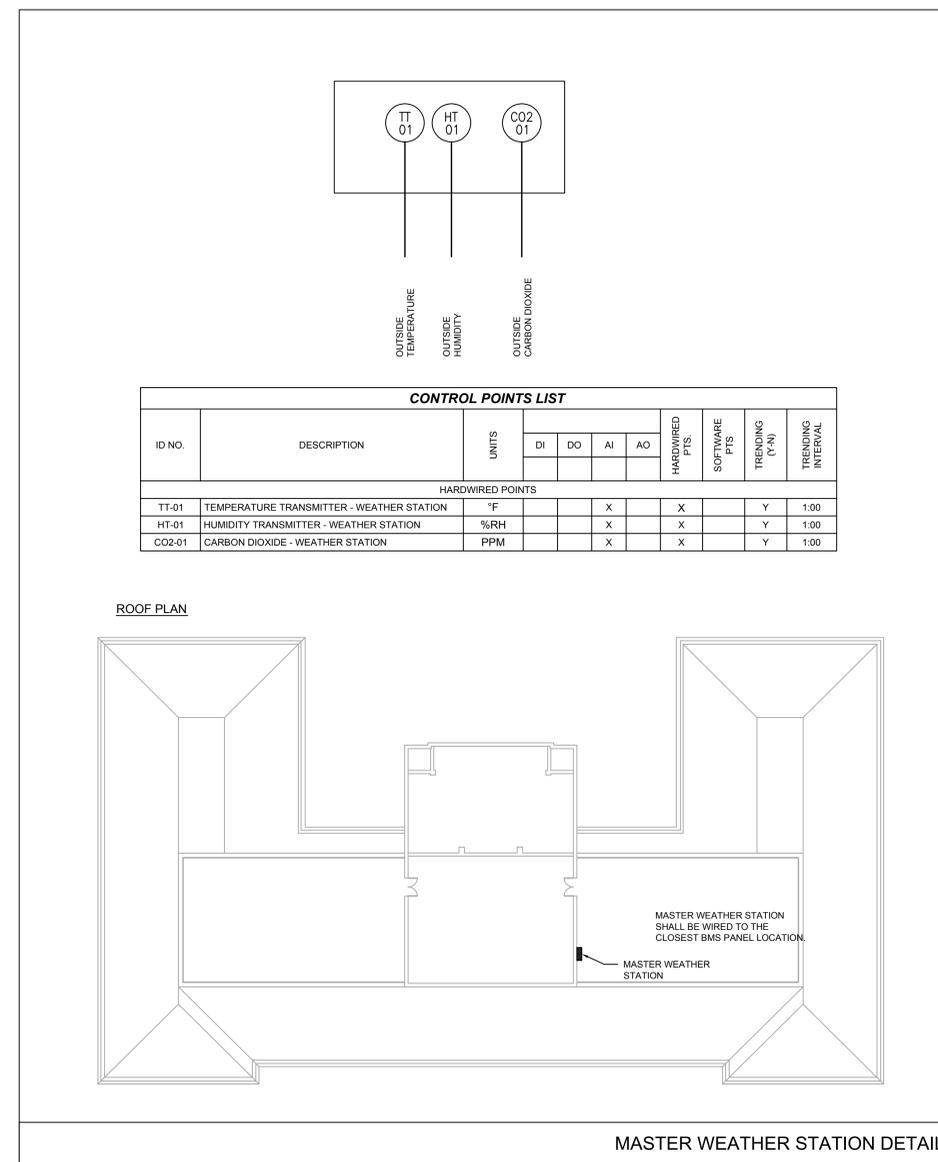
1 CONSTANT AIR VOLUME SYSTEM (HVAC-1)
NTS

ID NO.	DESCRIPTION	UNITS	HARDWIRED PTS.				SOFTWARE PTS.	TRENDING (Y-N)	TRENDING INTERVAL
			DI	DO	AI	AO			
HARDWIRED POINTS									
CO2-01	CARBON DIOXIDE TRANSMITTER - RETURN AIR	PPM			X		X	Y	1.00
FT-01	FLOW TRANSMITTER - OUTSIDE AIR	CFM		X			X	Y	1.00
TCD-02	TEMPERATURE CONTROL DAMPER - MIN. OUTSIDE AIR	%			X		X	Y	1.00
TCD-02	TEMPERATURE CONTROL DAMPER - RETURN AIR	%				X	X	Y	1.00
TCD-03	TEMPERATURE CONTROL DAMPER - EXHAUST AIR	%				X	X	Y	1.00

SEQUENCE OF OPERATIONS

EXISTING SEQUENCE OF OPERATIONS WILL BE MODIFIED TO INCLUDE THE FOLLOWING:

- A. ENTHALPHY ECONOMIZER CYCLE IS ACTIVE AT ALL TIMES AND WILL INTERACT WITH DEMAND CONTROL VENTILATION PROGRAM. WHEN OA DAMPER IS BETWEEN DESIGN MINIMUM OA AND REDUCED MINIMUM OA, SYSTEM SHALL OPERATE TO THE MOST DEMANDING CRITERIA, DEMAND CONTROL VENTILATION OR ECONOMIZER PROGRAM.
- B. CO2 CONTROL:
 1. IN NORMAL OPERATION, AS WORST CASE OF EITHER AHU RETURN AIR CO2 OR SPACE CO2 IS MEASURED, THE AHU SHALL MODULATE BETWEEN MINIMUM OA TO REDUCED MINIMUM OA. OA DAMPER SHALL OPERATE IN THE FOLLOWING MANNER:
 - a. CO2 LEVELS BETWEEN 450PPM AND 650PPM ABOVE OA CO2 SENSOR LEVEL, OA DAMPER SHALL POSITION TO REDUCED MINIMUM OA SETTING.
 - b. CO2 LEVELS ABOVE 650PPM, OA DAMPER SHALL MODULATE BASED ON SCHEDULED MINIMUM OA POSITION.
 - c. BASED ON A DECREASE OF 100PPM (ADJ.), AT EACH STAGE, THE SYSTEM SHALL STAGE DOWN IN REVERSE.
 2. DURING PROGRAMMING OF DEMAND CONTROL VENTILATION (DCV), BMS CONTRACTOR SHALL CONFIRM THAT EXISTING ECONOMIZER PROGRAM IS AVAILABLE AT ALL TIMES AND IS CAPABLE OF PROVIDING 100% OUTDOOR AIR AND MECHANICAL COOLING AS REQUIRED TO MEET BUILDING LOAD, IN COMPLIANCE WITH THE NYCCEC. IN ADDITION, BMS CONTRACTOR TO MODIFY, IF REQUIRED, THE EXISTING ENTHALPHY ECONOMIZER CYCLE PROGRAM TO MEET THIS REQUIREMENT.



ID NO.	DESCRIPTION	UNITS	HARDWIRED PTS.				SOFTWARE PTS.	TRENDING (Y-N)	TRENDING INTERVAL
			DI	DO	AI	AO			
HARDWIRED POINTS									
TT-01	TEMPERATURE TRANSMITTER - WEATHER STATION	°F			X		X	Y	1.00
HT-01	HUMIDITY TRANSMITTER - WEATHER STATION	%RH			X		X	Y	1.00
CO2-01	CARBON DIOXIDE - WEATHER STATION	PPM			X		X	Y	1.00

ROOF PLAN

MASTER WEATHER STATION DETAIL

NOTE:
CONTROL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND THE CONTROL DIAGRAMS AND SEQUENCES OF OPERATIONS DESCRIBE THE DESIGN INTENT FOR THE MECHANICAL EQUIPMENT. THE BMS POINTS ARE BEING SHOWN FOR THE EQUIPMENT THEY CONTROL AND MONITOR; THE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE CONTROLS IN THE FIELD FOR A FULLY FUNCTIONING SYSTEM.

ALL EQUIPMENT INDICATED IN BOLD ARE NEW EQUIPMENT REQUIRING INSTALLATION BY BMS CONTRACTOR.

ALL EQUIPMENT DOWNSHADED ARE EXISTING EQUIPMENT.

REVISIONS:

NUMBER	DESCRIPTION	DATE
1	ISSUE FOR DESIGN	04/28/15
2	ISSUE FOR 100% CD	07/21/15
3	ISSUE FOR 100% CD	11/19/15
4	ISSUE FOR COMPLIANCE	01/04/16



DIVISION OF BUILDINGS

CAPITAL PROJECT NUMBER:
E14-0010

PROJECT
OneNYC ENERGY CONSERVATION MEASURES (ECMs)

QUEENS SUPREME COURT
8811 SUTPHIN BOULEVARD,
JAMAICA, NY 11435

DRAWING TITLE:
BMS MECHANICAL CONTROLS AIR SIDE

NYCECC NOTE:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE NEW YORK CITY ENERGY CONSERVATION CODE.

BUILDING DEPARTMENT APPROVAL NOTE:
THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

SEAL & SIGNATURE	DATE: 11/19/15
	PROJECT NO: DDC21000
	DRAWN BY: JY
	CHECKED BY: HJK
	DRAWING NUMBER: B-302.00
	SCALE: NONE
	1 OF 03