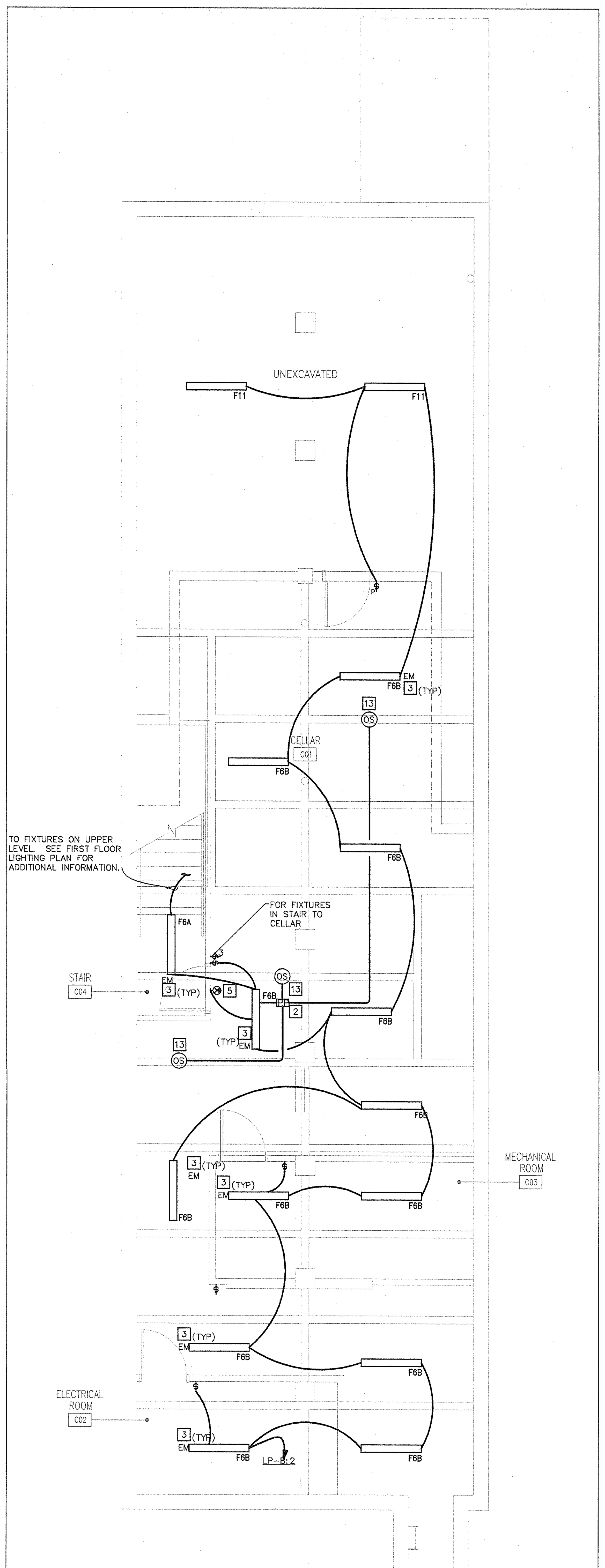
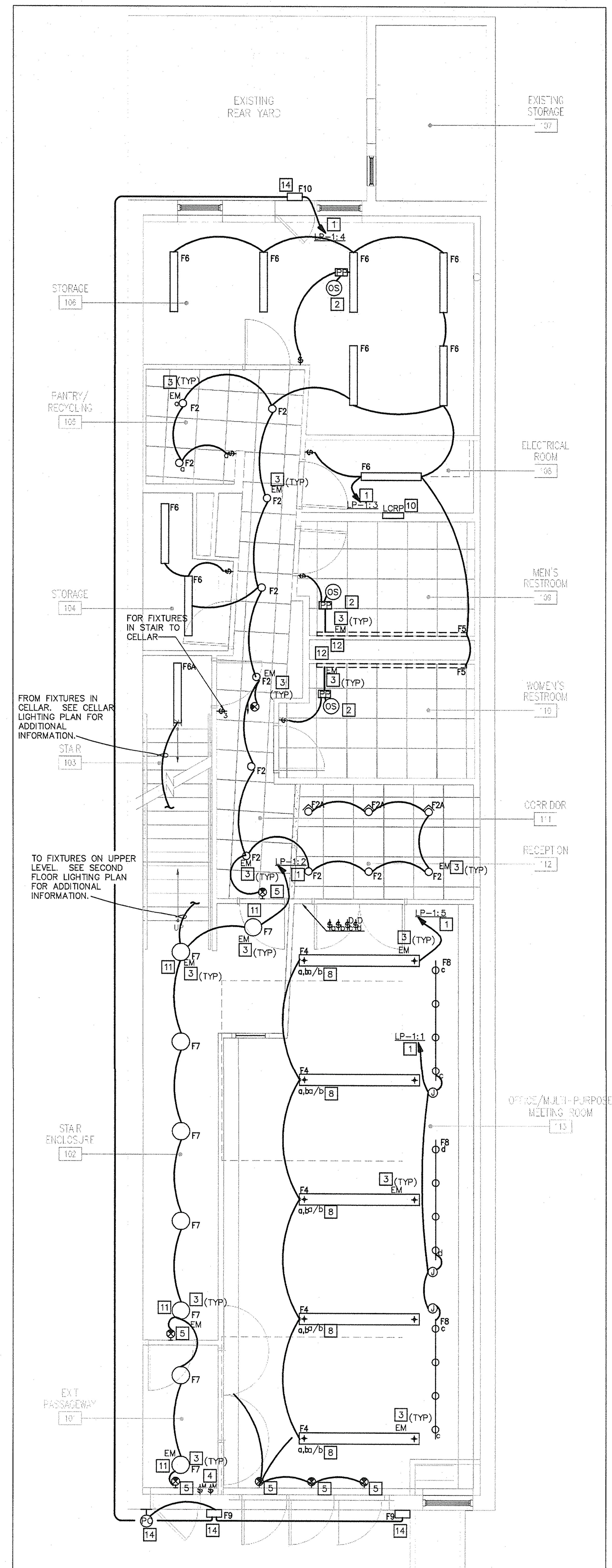


1 CELLAR LEVEL ELECTRICAL LIGHTING PLAN

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



2 FIRST FLOOR ELECTRICAL LIGHTING PLAN

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

AVERAGE FOOT CANDLE LEVELS BY ROOM

AREA(SQ.FT.)=6398
TOTAL WATTS=5142 (TRACK FIXTURES IN RM 113 ARE DECORATIVE FOR ARTWORK ILLUMINATION AND ARE THEREFORE NOT INCLUDED.)

LPD(WATTS/SQ.FT.)=0.80

CELLAR C01: 25.13 FC

ELECTRICAL ROOM C02: 25.37 FC

MECHANICAL ROOM C03: 35.73 FC

STAIR C04: 22.15 FC

EXIT PASSAGEWAY 101: 12.00 FC

STAIR ENCLOSURE 102: 17.39 FC

STAIR 103/204: 12.52 FC

STORAGE 104: 13.6 FC

PANTRY/RECYCLING 105: 16.01 FC

STORAGE 106: 22.29 FC

ELECTRICAL ROOM 108: 15.00 FC

MEN'S ROOM 109: 18.9 FC

WOMEN'S ROOM 110: 17.31 FC

CORRIDOR 111: 17.9 FC

RECEPTION 112: 25.79 FC

COMMUNITY ROOM 113: 88.93 FC

RECEPTION 201: 21.9 FC

STAFF AREA 202: 51.3 FC

FILE ROOM 203: 19.63 FC

DIRECTOR'S OFFICE 205: 31.23 FC

LIGHT FIXTURE SCHEDULE

F1
LIGHTOLIER – COFFAIRE 2' X 2' RECESSED DIRECT/INDIRECT LIGHT FIXTURE CFS2GPF2FT120SB WITH (2) F32TT/830 LAMPS.

F2
LIGHTOLIER – CALCUITE CFL OPEN DOWN LIGHT 8031CCD–S6132BU WITH (1) F26TT/830 LAMP. PROVIDE EMERGENCY BALLAST WHERE INDICATED ON PLANS.

F2A
LIGHTOLIER – CALCUITE CFL OPEN DOWN LIGHT /WALLWASHER 8081CCD–S6132BU WITH (1) F26TT/830 LAMP.

F3
NATIONAL LIGHTING – DIRECT/INDIRECT 8 FT. PENDANT S–CWC–10–10/0,–2–320CT–BCB–P–120–8FT WITH (2) F32T8/830 LAMPS PER 4 FT.

F4
FOCAL POINT – PENDANT MOUNTED DIRECT/INDIRECT FV35–PDR–3T81C–120–E–8FT WITH (3) F32T8/830 LAMPS PER 4 FT. PROVIDE EMERGENCY BALLAST WHERE INDICATED ON PLANS.

F5
OXYGEN LIGHTING – SURFACE MOUNTED LINEAR FIXTURE INSTALLED CONTINUOUSLY ON WALL 2–5105–24 (3FT. LENGTH) WITH (2) F21T5/830 LAMPS PER SECTION.

F6A
COLUMBIA LIGHTING – 4' INDUSTRIAL LINEAR, CSR4–132–ST–EU–NYCU, WITH (1) F32T8/830 LAMPS. PROVIDE EMERGENCY BALLAST WHERE INDICATED ON PLANS.

F6B
COLUMBIA LIGHTING – 4' INDUSTRIAL LINEAR, CSR4–232–ST–EU–NYCU, WITH (2) F32T8/830 LAMPS. PROVIDE EMERGENCY BALLAST WHERE INDICATED ON PLANS.

F7
SHAPER – PENDANT MOUNTED "SCHOOL HOUSE" WHITE OPAL GLASS FIXTURE 434–14–CFL/1–120–SH–REM WITH (1) F32TT/830 LAMPS.

F8
LIGHTOLIER – PENDANT MOUNTED TRACK FIXTURE 6000 SERIES 7582–6280–6487 (WITH 1) 150PAR38/38/3/NFL LAMP.

F9
BEGA – WALL MOUNTED EXTERIOR FIXTURE 4425P.537 WITH (1) 39W CF TWIN–4P.

F10
EXCELINE – WALL MOUNTED EXTERIOR FIXTURE KALEIDOSCOPE VAPORTITE SERIES RLW26HFLGC1 WITH (1) 26W CFL.

F11
COLUMBIA LIGHTING – LU INDUSTRIAL DAMP LOCATION LINEAR,LU4–232–E120–NYCU, WITH (2) F32T8/830 LAMPS.

COOPER LIGHTING – SURE–LITES EDGE LIT EXIT SIGN, ES770RM. MOUNTING, FACES AND DIRECTIONAL ARROWS AS PER PLANS.

COOPER LIGHTING – SURE–LITES EMERGENCY LIGHT, CC7MRTSM.

GENERAL NOTES

1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND SWITCHES REFER TO ARCHITECTURAL DRAWINGS.
2. ALL LIGHT FIXTURES SHALL BE INSTALLED AFTER ALL CEILING WORK, INCLUDING DUCT AND PLUMBING PIPING AND CONDUIT INSTALLATION IS COMPLETE.
3. ALL WIRE ROUTED IN EXPOSED CEILING SHALL BE ROUTED IN CONDUIT UNLESS OTHERWISE NOTED. ROUTE CONDUIT TIGHT TO STRUCTURE AND SQUARE TO BUILDING LINES.
4. PROVIDE #10 WIRING FOR ALL BRANCH CIRCUITS WHERE CIRCUIT LENGTH EXCEEDS 75 FEET.
5. CONTRACTOR SHALL COORDINATE VOLTAGES FOR ALL LIGHT FIXTURES PRIOR TO INSTALLATION AND PROVIDE FOR ALL LOW VOLTAGE TRANSFORMERS AS INDICATED IN LIGHTING FIXTURE SCHEDULE.

KEYED NOTES

(SOME KEY NOTES MAY NOT APPLY TO THIS SHEET.)

1 ROUTE ALL LIGHTING CIRCUITS IN FIRST FLOOR AND SECOND FLOOR VIA LIGHTING CONTROL RELAY PANEL LOCATED ON THE RESPECTIVE FLOOR.

2 PROVIDE ALL LOW VOLTAGE WIRING BETWEEN POWER PACKS AND OCCUPANCY SENSORS AS PER MANUFACTURER'S SPECIFICATION. LOCAL SWITCH SERVING AREA SHALL SERVE AS MANUAL OVERRIDE FOR THE CIRCUIT. SWITCH SHALL OVERRIDE SENSOR FOR MAXIMUM OF 2 HOURS.

3 ALL FIXTURES MARKED "EM" SHALL BE DESIGNATED EMERGENCY LIGHTING. PROVIDE EMERGENCY BATTERY BACKUP BALLAST. CONNECT TO UNSWITCHED LEG OF CIRCUIT INDICATED ON PLANS.

4 MASTER SHUT OFF SWITCHES TO SHUT OFF LIGHTING ON 1ST AND 2ND FLOORS. SWITCH SHALL BE COMPATIBLE WITH LCRP.

5 PROVIDE EXIT SIGNS WITH INTEGRAL EMERGENCY BATTERY BACKUP. CONNECT TO UNSWITCHED LEG OF CIRCUIT INDICATED ON PLANS.

6 LIGHTING CONTROL RELAY PANEL WITH 6 RELAYS AND TIME CLOCK. PROVIDE ALL PROGRAMMING AND APPURTENANCES AS REQUIRED.

7 PROVIDE EMERGENCY BATTERY BACKUP PACKS. CONNECT TO UNSWITCHED LEG OF CIRCUIT INDICATED ON PLANS. PROVIDE LOCKING TAB FOR BREAKER.

8 FIXTURE TO BE CONTROLLED WITH (2) SWITCHES. SWITCH a SHALL CONTROL THE DIRECT FIXTURE COMPONENT AND SWITCH b SHALL CONTROL THE INDIRECT FIXTURE COMPONENT.

9 MASTER SHUT OFF SWITCHES TO SHUT OFF LIGHTING ON 2ND FLOOR.

10 LIGHTING CONTROL RELAY PANEL WITH 12 RELAYS AND TIME CLOCK. PROVIDE ALL PROGRAMMING AND APPURTENANCES AS REQUIRED.

11 EMERGENCY BALLAST FOR THIS FIXTURE SHALL BE REMOTE TYPE, 90 MINUTE, SUITABLE FOR 32W TRIPLE TWIN–TUBE COMPACT FLUORESCENT LAMP. PROVIDE REMOTE TESTING BUTTON FOR EACH BALLAST AND LOCATE AT CEILING, NEXT TO RESPECTIVE FIXTURE. REMOTE BALLASTS FOR FIXTURES ON 1ST FLOOR SHALL BE LOCATED ABOVE CEILING IN CORRIDOR 111 AND REMOTE BALLASTS FOR FIXTURES ON 2ND FLOOR SHALL BE LOCATED ABOVE CEILING IN RECEPTION 201. REMOTE BALLASTS SHALL BE LOCATED IN ACCESSIBLE LOCATIONS.

12 EMERGENCY BALLAST FOR THIS FIXTURE SHALL BE REMOTE TYPE, 90 MINUTE, SUITABLE FOR (2) 21W T5 FLUORESCENT LAMPS. PROVIDE REMOTE TESTING BUTTON FOR EACH BALLAST AND LOCATE AT CEILING, NEXT TO RESPECTIVE FIXTURE. LOCATE REMOTE BALLASTS IN ACCESSIBLE CEILING IN THE SAME ROOM AS THE FIXTURE.

13 MOUNT OCCUPANCY SENSOR AT THE BOTTOM OF BEAM OR BELOW THE LEVEL OF CONDUIT OR OTHER PIPING WHICHEVER IS LOWER, TO ALLOW FOR PROPER COVERAGE.

14 ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL.

OCCUPANCY SENSOR NOTES

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
3. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
   A. TYPICAL POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
   B. EACH POWER PACK CAN SUPPLY UP TO 150mA. REFER TO INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK.
   C. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK.
5. SENSORS MOUNTED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
6. OFFICE SENSORS SHALL BE SET TO 70% INFRARED RANGE AND 30 MINUTE DELAYED OFF TIME. CONTRACTOR SHALL ADJUST BLINDERS ON OCCUPANCY SENSORS TO AVOID NUISANCE SWITCHING AS REQUIRED. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.
7. UPON COMPLETION OF INSTALLATION OF OCCUPANCY SENSORS AND INSTALLATION COMPONENTS, AND AFTER CONNECTION TO POWER SOURCE, TEST DEVICES AND INSTALLATION COMPONENTS TO DEMONSTRATE COMPLIANCE WITH REQUIREMENTS. WHEN POSSIBLE, FIELD CORRECT MALFUNCTIONING UNITS, THEN RETEST TO DEMONSTRATE COMPLIANCE. REPLACE UNITS WHICH CANNOT BE SATISFACTORY CORRECTED.

Project
BROOKLYN PHILHARMONIC MUSIC CENTER
299 DeGraw Street, Brooklyn, NY 11231

Prepared for
Brooklyn Philharmonic
55 Washington Street, Suite 656
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Contract No: 79.07250.09

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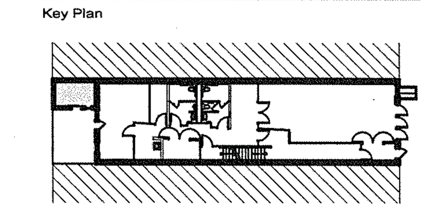
Key Plan



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LOT: 61

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No.	Issue Description	MM-DD-YYYY
1	ISSUED FOR FILING	06-14-2012
2	ISSUED FOR BID	07-20-2012

No.	Revision Description	MM-DD-YYYY

B-Scan

Drawn by DH Reviewed by CW
Project No 79.07250.09
Date June 1, 2011
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Sheet Title
CELLAR AND FIRST FLOOR ELECTRICAL LIGHTING PLANS

Sheet Number
E–131.00

Sheet 8 of 14
Original drawing is 42 x 30 Do not scale contents of this drawing

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