REVIEWED FOR CODE COMPLIANCE

DATE 04/04/18 by: Building Official

PERMIT NO. BLD2017-08812

ADDRESS 7012 MUNICIPAL DR

CONTRACTOR HARBCO GENERAL CONTRACTORS INC

NOTE: Permit issued based on plans submitted to violate applicable codes. Keep the plan on site at all times

CITY OF ORLANDO
PERMITTING SERVICES DIVISION

# LIGHTING PLAN

SCALE 1/8" = 1'-0"

ALL LIGHTING CIRCUITS HOMERUN SHALL MIN. # 10 COPPER EXCEPT IN OFFICE AREAS

A/E2 LIGHTING CONTROL SCHEMATIC DIAGRAM

NOT TO SCALE

## ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS MAY BE USED.

- FLUORESCENT LIGHTING FIXTURE – CEILING MOUNTED
- FLUORESCENT LIGHTING FIXTURE – CEILING MOUNTED – WITH BATT. PACK WIRED AHEAD OF SWITCHING
- FLUORESCENT, INCANDESCENT OR HID DOWNLIGHT FIXTURE – CLG. MOUNTED
- FLUORESCENT, INCANDESCENT OR HID LIGHTING FIXTURE – WALL MOUNTED
- POLE MOUNTED H.I.D. AREA LIGHTING FIXTURE
- EMERGENCY BATTERY EXIT LIGHTING FIXTURE UNIT
- EMERGENCY BATTERY UNIT LIGHTING FIXTURE – WALL MOUNTED
- SINGLE POLE TOGGLE SWITCH – MOUNTED 42" AFF TO CENTERLINE UNLESS OTHERWISE NOTED
  (3) 3 WAY (D) DIMMER SWITCH
  (DLS) DUAL LEVEL SWITCHING
- DUPLEX RECEPTACLE – MOUNTED 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE
  (GFI) GROUND FAULT INTERRUPTING
  (REF) REFRIGERATOR
  (WP) WEATHERPROOF
- DOUBLE DUPLEX RECEPTACLE – MOUNTED 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE – MOUNTED 6" ABOVE COUNTER BACKSPLASH UNLESS NOTED OTHERWISE
- WALL MOUNTED OCCUPANCY SENSOR BY "WATTSTOPPER" PROVIDE DUAL TECHNOLOGY, MODEL "DW-100, DW-103, OR DW-200" SERIES CONTROLS. MOUNT 48" AFF U.O.N.
- CEILING MOUNTED OCCUPANCY SENSOR BY "WATTSTOPPER" PROVIDE DUAL TECHNOLOGY, MODEL "DT-300" SERIES WITH BZ-100 POWER PACKS AS REQUIRED UNLESS OTHERWISE NOTED.
- COMMUNICATIONS/DATA OUTLET – MOUNTED 18" AFF TO C.L. U.N.O. – STUB ONE (1) 3/4" CONDUIT WITH PULL STRING TO TELEPHONE TERMINAL BOARD "TTB". PROVIDE 2 GANG BOX WITH ONE GANG RING (TYPICAL).
- SINGLE POLE TOGGLE SWITCH AND DUPLEX RECEPTACLE IN COMBINATION – MOUNTED 42" AFF TO CENTERLINE UNLESS OTHERWISE NOTED
- DUPLEX RECEPTACLE – FLUSH MOUNTED IN CEILING UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE – FLUSH MOUNTED IN FLOOR UNLESS NOTED OTHERWISE
- COMMUNICATIONS/DATA OUTLET – MOUNTED 18" AFF TO C.L. U.N.O. – STUB ONE (1) 3/4" CONDUIT WITH PULL STRING TO TELEPHONE TERMINAL BOARD "TTB". PROVIDE 2 GANG BOX WITH ONE GANG RING (TYPICAL).
- COMMUNICATIONS OUTLET – MOUNTED 6" ABOVE COUNTER BACKSPLASH U.N.O. – STUB ONE (1) 3/4" CONDUIT WITH PULL STRING TO TELEPHONE TERMINAL BOARD "TTB". PROVIDE 2 GANG BOX WITH ONE GANG RING (TYPICAL).
- W — WALL PHONE OUTLET – MOUNTED 42" AFF TO C.L. U.N.O. – STUB ONE (1) 3/4" CONDUIT WITH PULL STRING TO TELEPHONE TERMINAL BOARD "TTB". PROVIDE 2 GANG BOX WITH ONE GANG RING (TYPICAL).
- P — PAY PHONE OUTLET – MOUNTED 42" AFF TO C.L. U.N.O. – STUB ONE (1) 3/4" CONDUIT WITH PULL STRING TO TELEPHONE TERMINAL BOARD "TTB". PROVIDE 2 GANG BOX WITH ONE GANG RING (TYPICAL).
- SPECIAL PURPOSE OUTLET OR CONNECTION
- MOTOR
- FUSIBLE DISCONNECT SWITCH
- J — JUNCTION BOX
- TTB — TELEPHONE TERMINAL BOARD – 4'x 8'x 3/4" PLYWOOD BACKBOARD. STUB (1) 3" C. WITH PULL STRING TO TELEPHONE ENTRANCE DEMARCATION LOCATION. (INDICATES TELEPHONE TERMINAL BOARD)
- ELECTRICAL PANEL
- A — (INDICATES DESIGNATION)
- 1 — SEE NOTE SYMBOL
- SOLID LINE INDICATES EQUIPMENT ON COMMON CIRCUIT AND/ OR CONTROLLED BY COMMON SWITCH. EACH CIRCUIT SHALL CONSIST OF A PHASE CONDUCTOR, NEUTRAL AND GROUND CONDUCTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY SWITCH LEGS IN CONDUIT TO ACHIEVE SWITCHING INDICATED ON PLANS. ELECTRICAL CONTRACTOR MAY COMBINE CIRCUITS INTO A COMMON HOMERUN CONSISTING OF A COMMON NEUTRAL AND GROUND CONDUCTOR AND THREE (3) PHASE CONDUCTORS (A, B, AND C PHASE).
- DOTTED LINE INDICATES EQUIPMENT ON A COMMON CIRCUIT BUT NOT CONTROLLED ON SAME SWITCH DEVICE.

## LIGHTING FIXTURE SCHEDULE

| LEGEND | Lamp Data No. | Lamp Data Type | Fixture Description | Fixture Data Manufacturer | Fixture Data Catalog Number | Mount | Voltage | See Note |
|---|---|---|---|---|---|---|---|---|
| | W/ | LED | 2'x4' RECESSED LED | COLUMBIA | LCAT24 35 MLG-EU | RECESS | 120 | 7 |
| | W/ | LED | 2'X2' RECESSED LED | COLUMBIA | LCAT 22-935VLG-EDU | RECESS | 120 | 5 |
| | W/ | LED | LED SURFACE MTD. 4' LONG | COLUMBIA | CSL4-4035 | SURF | 120 | |
| ISLE | W/ | LED | LED PENDANT MTD. 4' LONG W/OCCUPANCY SENSOR | COLUMBIA | MPL4-35HL-AC-EU-OS360-20 | PEND | 120 | |
| HB-ML | W/ | LED | LED PENDANT MTD. 4' LONG W/OCCUPANCY SENSOR | COLUMBIA | LLHV4-35M-NST-EU-OS1360 | PEND | 120 | |
| HB-K | W/ | LED | LED PENDANT MTD. 4' LONG W/OCCUPANCY SENSOR | COLUMBIA | LLHV4-35V-WST-EU-OS1360 | PEND | 120 | |
| | W/ | LED | LED DOWNLIGHT | PRESCOLITE | LOBLED120-6LCLED635K8 | RECESS | 120 | |
| | W/ | LED | LED WALL WASH | PRESCOLITE | CFTW632EB-20M-ST612-TRG-LP32T30K | WALL | 120 | |
| | W/ | LED | HI-BAY SURFACE MTD. LED W/OCCUPANCY SENSOR | HUBBLE | UTB-4K-WA36-HO-U-ND-GR-N-CB-HLP120-20 | SURFACE | 120 | 4,5,6 |
| | W/ | UNIT | LED EMERGENCY EXIT SIGN | COMPASS | CER | UNIV | 120 | 1,3 |
| | W/ | UNIT | EMERGENCY BATTERY LIGHTING UNIT | COMPASS | CU2 | WALL | 120 | 1,2,3 |

### GENERAL LIGHTING FIXTURE NOTES:

A. CONTRACTOR SHALL COORDINATE FIXTURE MOUNTING WITH ARCHITECTURAL REFLECTED CEILING PLAN(S) AND SHALL PROVIDE FIXTURE MOUNTING AS REQUIRED TO MATCH CEILING TYPE.
B. ALL FIXTURE BALLAST(S) SHALL BE HIGH POWER FACTOR TYPE (WHERE APPLICABLE).
C. SEE SITE LIGHTING LUMINARE SCHEDULE FOR ADDITIONAL SITE LIGHTING FIXTURES THAT MAY BE REQUIRED.
D. ALL ACRYLIC FIXTURE LENSES SHALL BE 0.125" THICK MINIMUM.

### LIGHTING FIXTURE SCHEDULE NOTES:

1. FIXTURES SHALL BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY BACK-UP.
2. FIXTURE SHALL BE WALL MOUNTED AT 7'-6" AFF.
3. FIXTURES WITH INTEGRAL EMERGENCY BATTERY BACK-UP SHALL BE WIRED IN ACCORDANCE WITH NEC ARTICLE 700. EMERGENCY FIXTURE SHALL BE CONNECTED TO CONSTANT NORMAL ROOM LIGHTING BRANCH CIRCUIT OF AREA SERVED (i.e., LOAD SIDE OF BREAKER, LINE SIDE OF ANY SWITCHING/CONTROLLING DEVICES).
4. MOUNT FIXTURE ON UNISTRUT MOUNTED BETWEEN JOISTS .
5. MOUNT UNIT TO ACCOMMODATE SHELVING LAYOUT– COORDINATE WITH OWNER FOR RACK LOCATION AND HEIGHT
6. FIXTURE COLOR COULD BE CHANGED AND AS SELECTED BY ARCHITECT AND OWNER.
7. FIXTURE "NL" DENOTES NIGHT LIGHT POWERED AHEAD OF ANY SWITCHING

NOTE: SUBMIT LIGHTING FIXTURE CUT SHEETS TO OWNER FOR APPROVAL PRIOR TO PLACING FIXTURE ORDER.

Mohamed Ghazall Digitally signed by Mohamed Ghazall Date: 2018.02.02 13:35:58 -05'00'

MOHAMED GHAZALI, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 46169.
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# NEW WAREHOUSE AND OFFICES FOR OCEAN AIR
# 7012 MUNICIPAL DR ORLANDO FLORIDA

REVISION DATES
1 02/02/2018 BLDG DEPT COMM.

DATE
9-06-17

SHEET TITLE

SHEET NUMBER
E-2

PROJECT NO.
1707