Lighting Distribution and Layout

Program: Electrician Technician

Course: EL150 Commercial Applications

Objectives: Under the supervision of your instructor, you should be able to do the following:

- Utilize an architect's scale, state the actual dimensions of a given drawing component.
- Create a material takeoff of the lighting fixtures specified in a lighting plan.

Lab Equipment:

- A set of light prints or figure 1

Required Tools:

- 1 - Pencil

Materials: N/A

Safety (PPE):

- Safety glasses/goggles
- Hard hat

Resources: N/A

Required Time: 60 minutes.

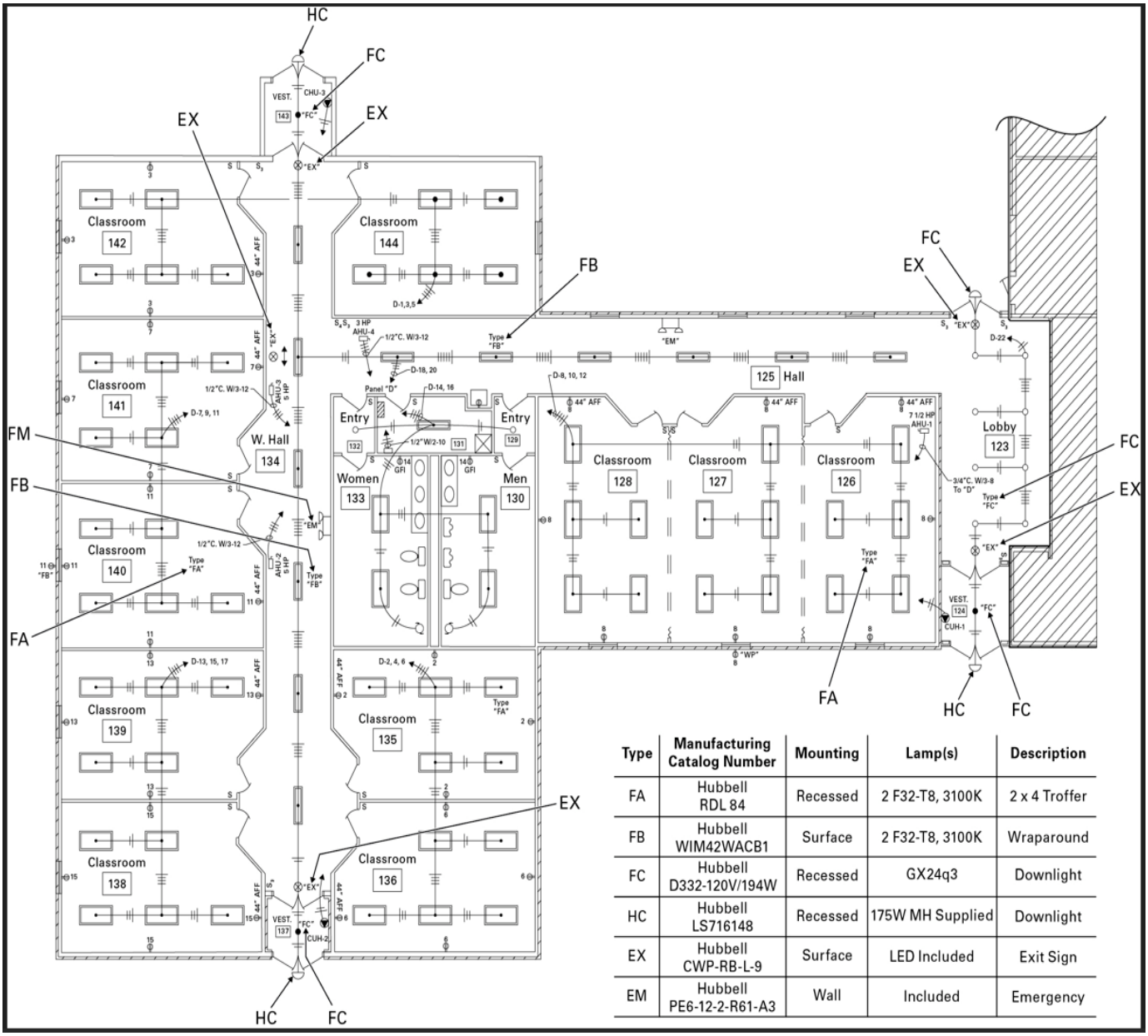
Shop Maintenance:

- All work will cease 20 minutes prior to the end of class.
- All work areas must be cleaned.
- Tools and equipment must be cleaned and returned to the designated areas (cage, tool room, cabinets etc.)
- Any broken or missing tools must be reported immediately.
- Tools and equipment are students' responsibility.

Procedure:

1. Using an architect's scale, state the actual dimensions of a given drawing component.

2. Make a materials takeoff of the lighting fixtures specified in the provided drawing. The takeoff requires that all lighting fixtures be counted, and where applicable, the total number of lamps for each fixture type must be calculated. (Fill these in on the provided Lighting Fixture Takeoff worksheet.)



Type	Manufacturing Catalog Number	Mounting	Lamp(s)	Description
FA	Hubbell RDL 84	Recessed	2 F32-T8, 3100K	2 x 4 Troffer
FB	Hubbell WIM42WACB1	Surface	2 F32-T8, 3100K	Wraparound
FC	Hubbell D332-120V/194W	Recessed	GX24q3	Downlight
HC	Hubbell LS716148	Recessed	175W MH Supplied	Downlight
EX	Hubbell CWP-RB-L-9	Surface	LED Included	Exit Sign
EM	Hubbell PE6-12-2-R61-A3	Wall	Included	Emergency

Lighting Fixture Takeoff

Lighting Fixture Type	Manufacturer And Catalog Number	Number And Type Of Lamps	Total Number Of Fixtures	Total Number Of Lamps For Fixture Type
FA	Hubbell RDL 84	2 F32-T-8, 3100k		
FB	Hubbell WIM42WAC81	2 F32-T-8, 3100k		
FC	Hubbell D332-120V/194W	GX24q3		
HC	Hubbell LS716148	175W MH Supplied		
EX	Hubbell CWP-RB-L-9	INCL.		
EM	Hubbell PE6-12-2-R61-A3	INCL.		