

# CM 352 – Electrical Construction Estimating

Accubid Activity #2  
Building Fixture Designations and Fixture Takeoff SYS 06 FIXTURES

## Building Fixture Designations

1. Start the program Accubid Pro 15 [[Start, Trimble, Accubid Pro 15]
1. Press the CAPS LOCK Key ON
2. From the Job Schedule Screen open the file, Accubid Office Building.

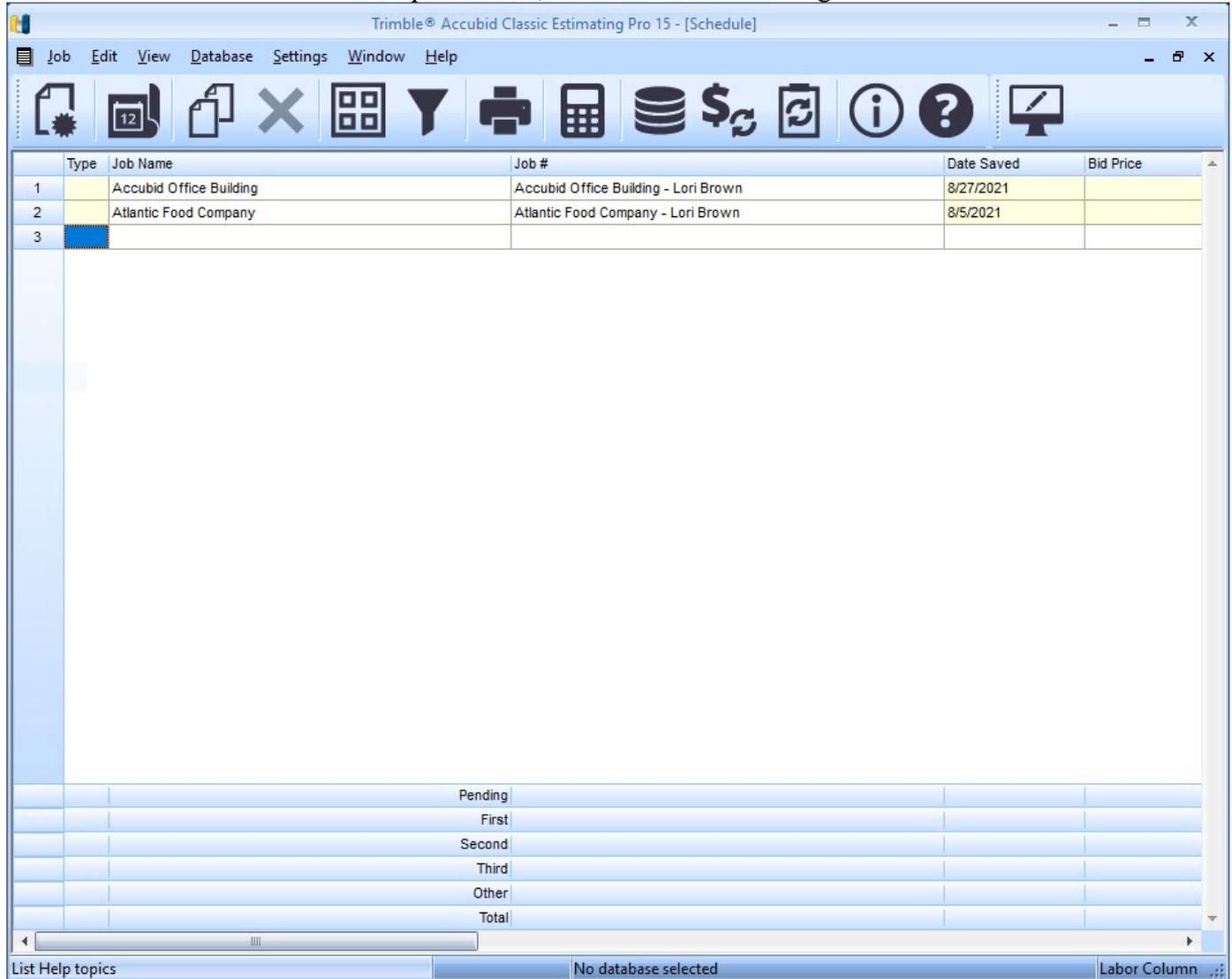
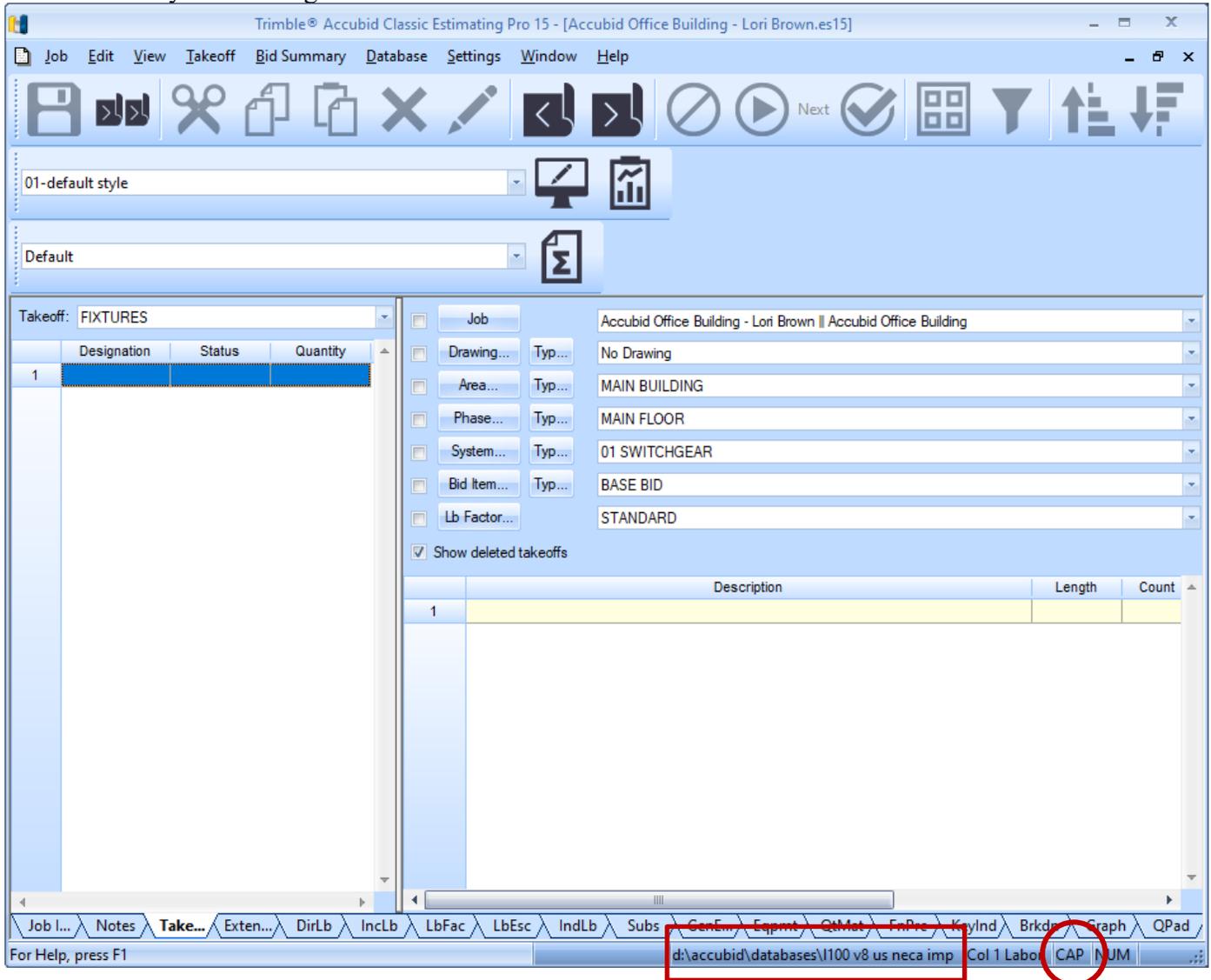


Figure 1

3. Make sure you are using the Database: L100 V8 US NECA IMP



4. If not already selected, select the Takeoff tab at the bottom of the screen.

**FIXTURES - DESIGNATIONS**

In Accubid (Electrical) there are three systems that use **Designations**:

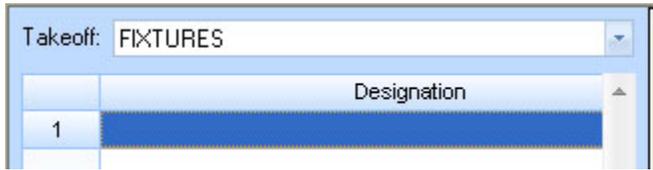
- FIXTURES
- HEATING
- DISTRIBUTION

Creating a designation involves selecting any number of different items and assemblies, and then assigning them a designation name. Once you have created the designation, you can take off all the items in the designation in a single step. Any changes you make to the designation will be automatically reflected in all takeoffs performed using that designation.

The Designation list shown are all the Fixture Designations that will need to be created for the AOB 06 FIXTURES QTO.

Takeoff: FIXTURES		
	Designation	S
1	A - 2X4 FL 4L T-BAR LAY-IN	
2	A1 - 2X4 FL 3L T-BAR LAY-IN	
3	A2 - 2X4 FL 2L T-BAR LAY-IN	
4	B - 2X2 FL 2UL T-BAR LAY-IN	
5	C - 32W COMPACT FL DOWNLIGHT	
6	C1 - 100W INC DOWNLIGHT	
7	D - 70W MH RECESSED HD	
8	F - 4' FL 2L STRIP CHAIN HUNG	
9	G - 100W VP INC ELEVATOR PIT	
10	H - 4' FL 2L SURF STAIRWELL	
11	J - 4' FL 2L COVE STRIP	
12	J1 - 3' FL 2L COVE STRIP	
13	K - 2X4 FL 4L T-BAR LAY-IN	
14	M - 175W MH HID WALL PACK	
15	S1 - 1H 400W MH 25' POLE	
16	S2 - 2H 400W MH 25' POLE	
17	X - LED EXIT/EM UNIT T-BAR	
18	X2 - LED EXIT/EM UNIT DBL FACED T-BAR	
19	Y - EM BATTERY UNIT - SINGLE HEAD	

5. Choose FIXTURES from the DROP DOWN list in the Takeoff: area of the screen.



6. Double click the first blank line below the Designation heading.  
The Create/Modify Designation Description dialog will appear. Descriptions can be a maximum of 80 characters.

7. Enter: A - 2X4 FL 4L T-BAR LAY-IN in the dialog box and press OK.

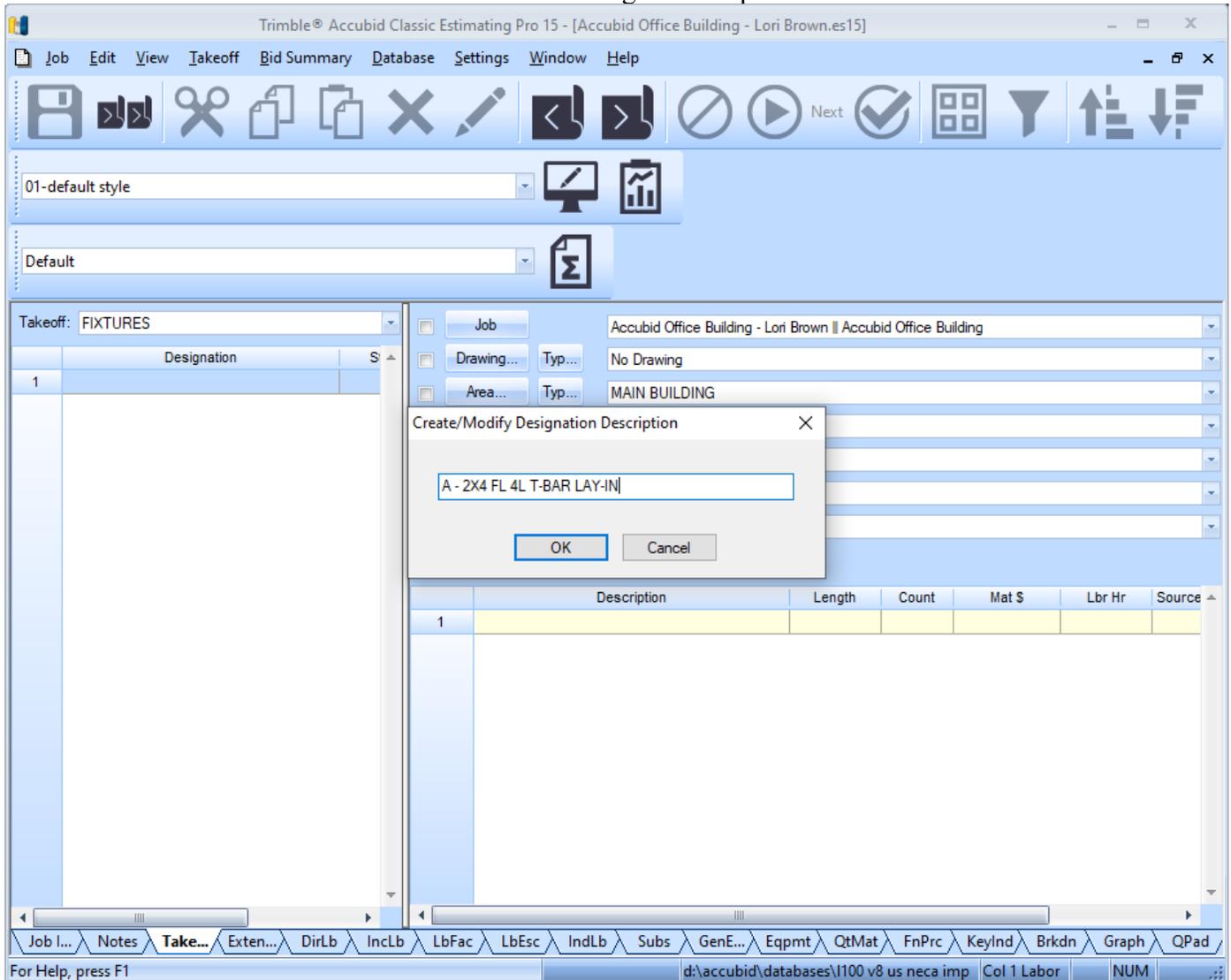


Figure 2

Using a series of dialog boxes Accubid will step through building the FIXTURE DESIGNATION in the following order:

Fixtures: Category

Fixtures: Type

Fixtures: Size

8. To build the Fixture Designation: A - 2X4 FL 4L T-BAR LAY-IN  
 Double click to select the following:

Fixtures: Category

Line 1 FLUORESCENT LUMINAIRES

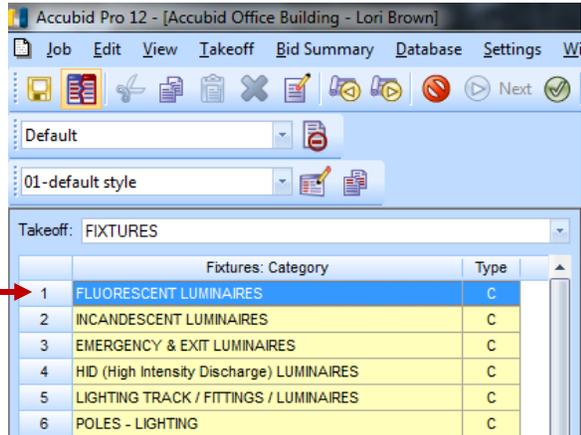


Figure 3

Fixtures: Type

Line 1 FLUORESCENT LUMINAIRES - RECESSED

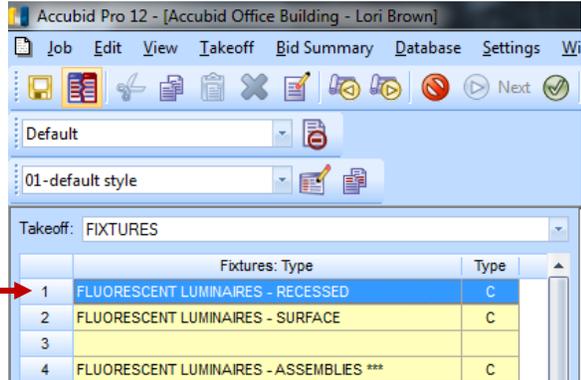


Figure 4

Fixtures: Size

Line 8 2' x 4' DROP-IN T-BAR

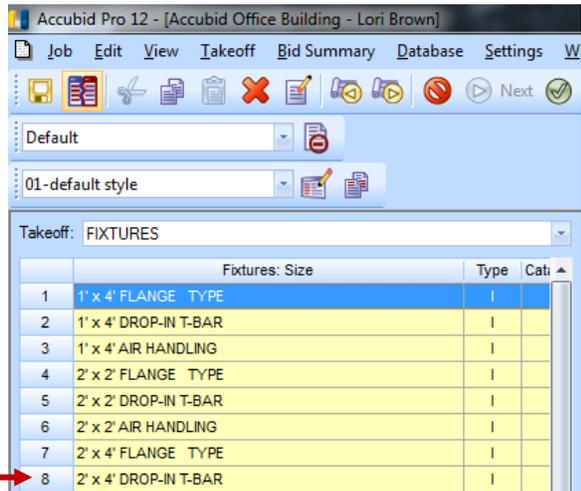


Figure 5

The Measure Takeoff dialog box appears which is used to build the designation one **item** at a time.

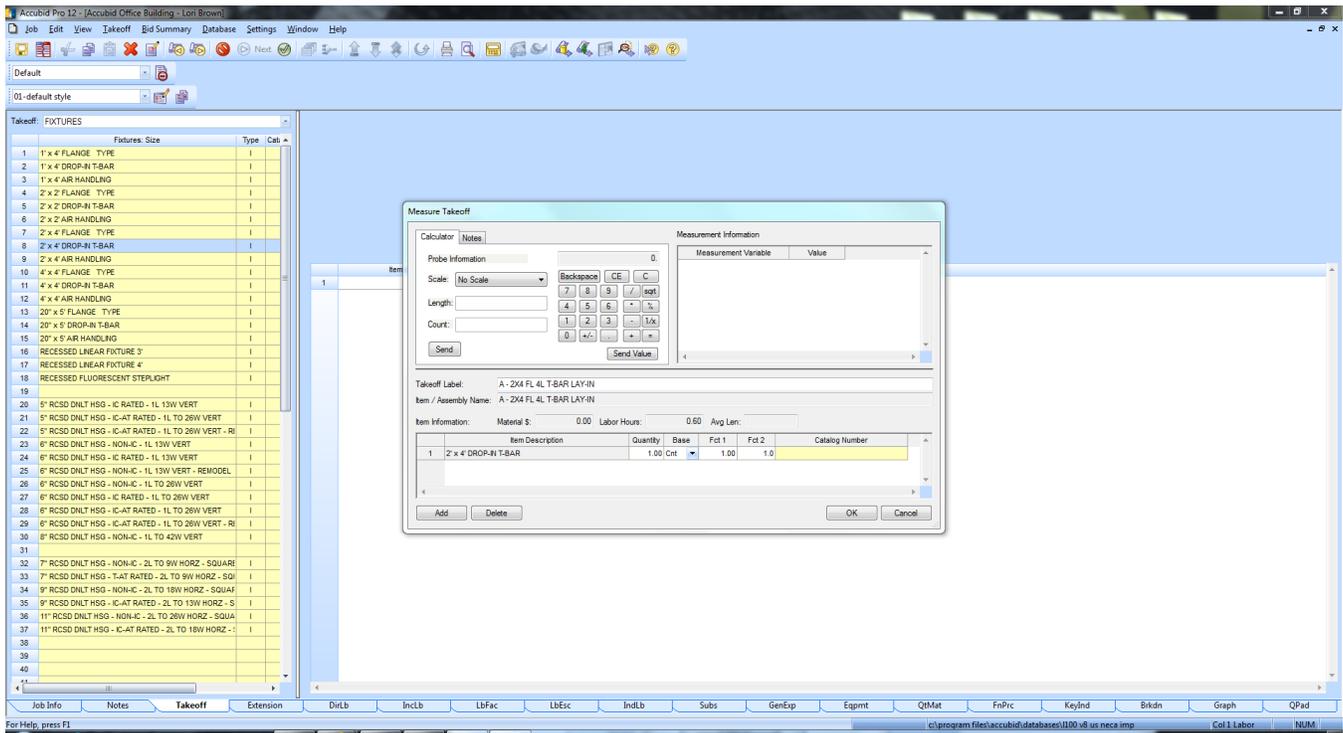


Figure 6

Example: FIXTURE A

LIGHT FIXTURE SC					
FIXTURE TYPE	DESCRIPTION	VOLTAGE	LAMPS	MANUF. & CATALOG #	FIXTURE
"A"	2'x4' FLUORESCENT LAY-IN LIGHT FIXTURE, 4-LAMP, 3" DEEP (18) CELL PARABOLIC SPECULAR LOUVER, COLD ROLLED STEEL HOUSING AND DOOR, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST.	277	(4) 32 WATT (FLUOR.) (F32TB/35K)	COOPER # 2EP3GAX-432S361- 277V-L8735-EB81-U	

Below is the list of items that will be added to the FIXTURE DESIGNATION:  
(Instructions are on the next page)

<u>ITEM</u>	<u>QTY</u>
2' x 4' DROP-IN T-BAR	1.00
#14/2C CABLE MC - STL ARMOR	7.00
3/8" CONN AC-90 / MC DC SS	2.00
3/8" CABLE SUPPORT FOR ROD OR FLNG	1.00
WIRE CONN YEL (#18 TO #12)	3.00
CEILING CLIP W/ 27mm STD NAIL - STL/CONC	2.00
#12 CEILING WIRE	14.00
T-BAR CLIP FOR STRAIGHT LIP LAY-IN FIXTURE	4.00

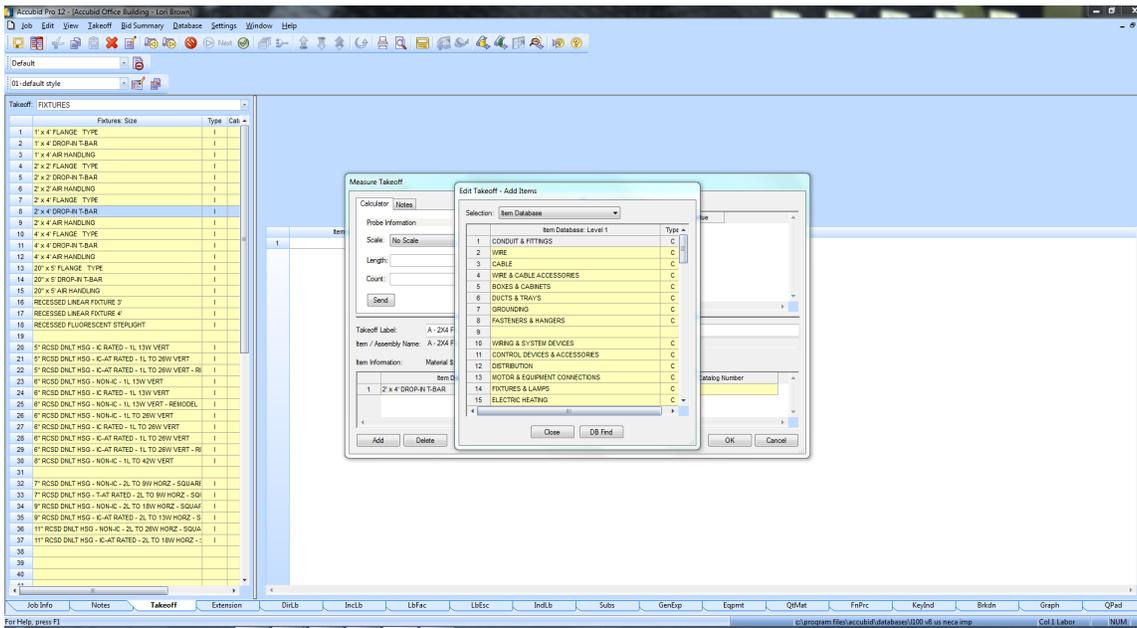


Figure 7

9. Click on ADD in the Measure Takeoff window. To ADD the Item, #14/2C CABLE MC - STL ARMOR to the FIXTURE DESIGNATION:

Double Click on:

Line 3 – CABLE C

Line 2 – MC CABLE C

Line 1 – MC CABLE 600V STEEL ARMOR C

Line 1– #14/2C CABLE MC - STL ARMOR I

Notice that the Item was ADDED to the Item Description list in the Measure Takeoff dialog box.

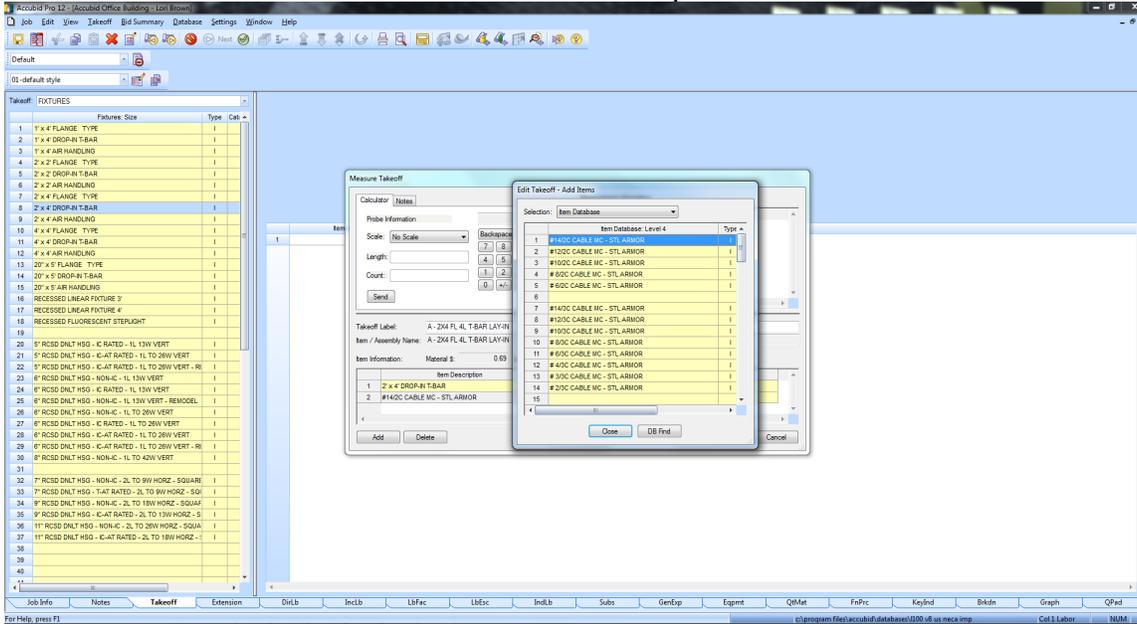


Figure 8

Note: To “Backup” in the Edit Takeoff – Add Items dialog box you can press the ESC Key or click the Right Mouse button in the Window.

10. Press the Right Mouse Button Three Times to get back to **Item Database: Level 1**.

11. To Add the Item, **3/8" CONN AC-90 / MC DC SS** by double click on the following:
  - Line 4 – WIRE AND CABLE ACCESSORIES      C
  - Line 2 – AC-90 /MC / NM-B CONN & FITTINGS      C
  - Line 1 – BX CONNECTORS      C
  - Line 1 – 3/8" CONN AC-90 / MC DC SS      I

### USING DB FIND

12. To Add the Item, **3/8" CABLE SUPPORT FOR ROD OR FLNG** click on the DB Find button.
13. In the Find Database Item/Assembly window enter the Item in the Search Text: textbox and under the Search for command select the radio button **Items only**. Click on the **Find Now** button.

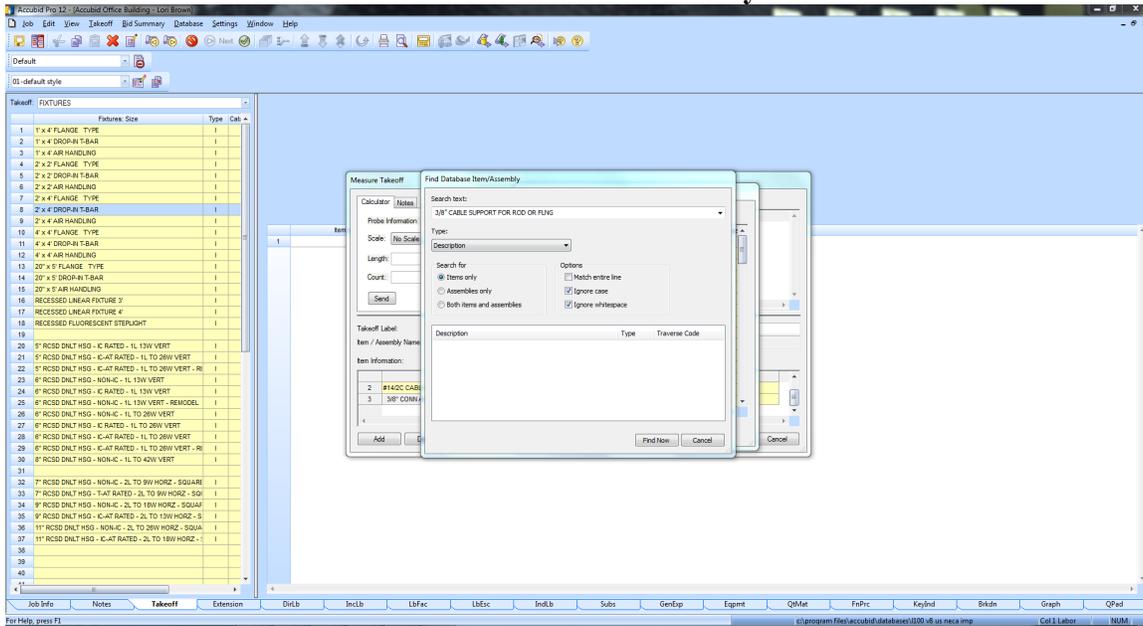


Figure 9

The Item is located and displays in the dialog box.

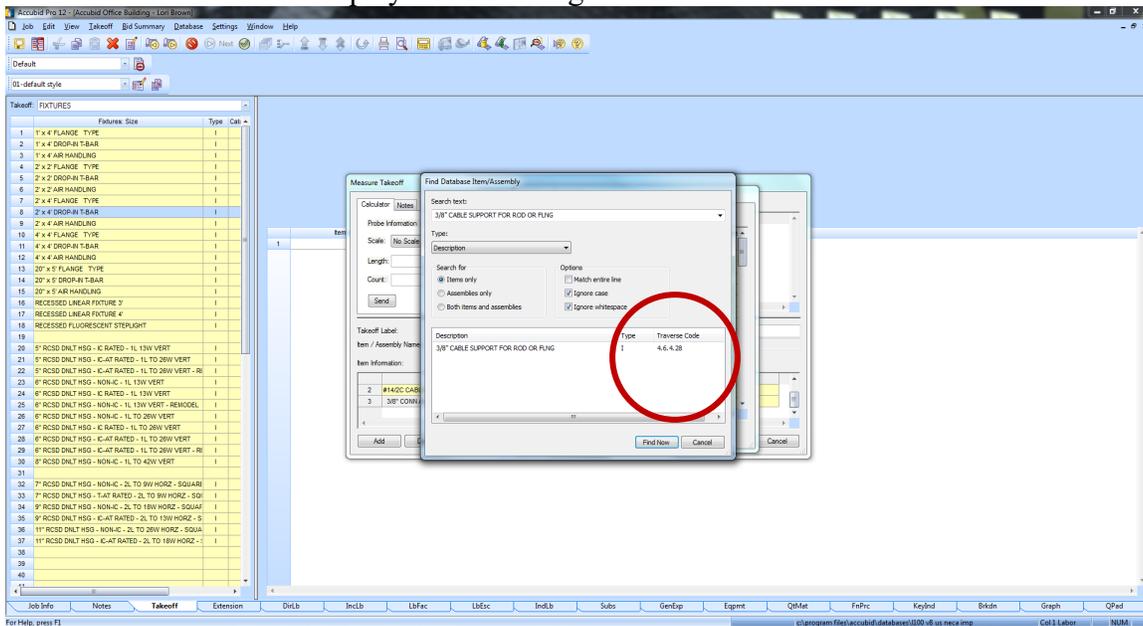


Figure 10

Notice the TRAVERSE CODE 4.6.4.28

The Traverse Code is the list of Line numbers starting from Item Database: Level 1 to the Item.

14. Double Click on the item listed under Description to open the Item Database for that Item.  
The Edit Takeoff – Add Items Window is opened leaving the Find Database Item/Assembly Window open. Click Cancel to close the Find Database Item/Assembly Window.

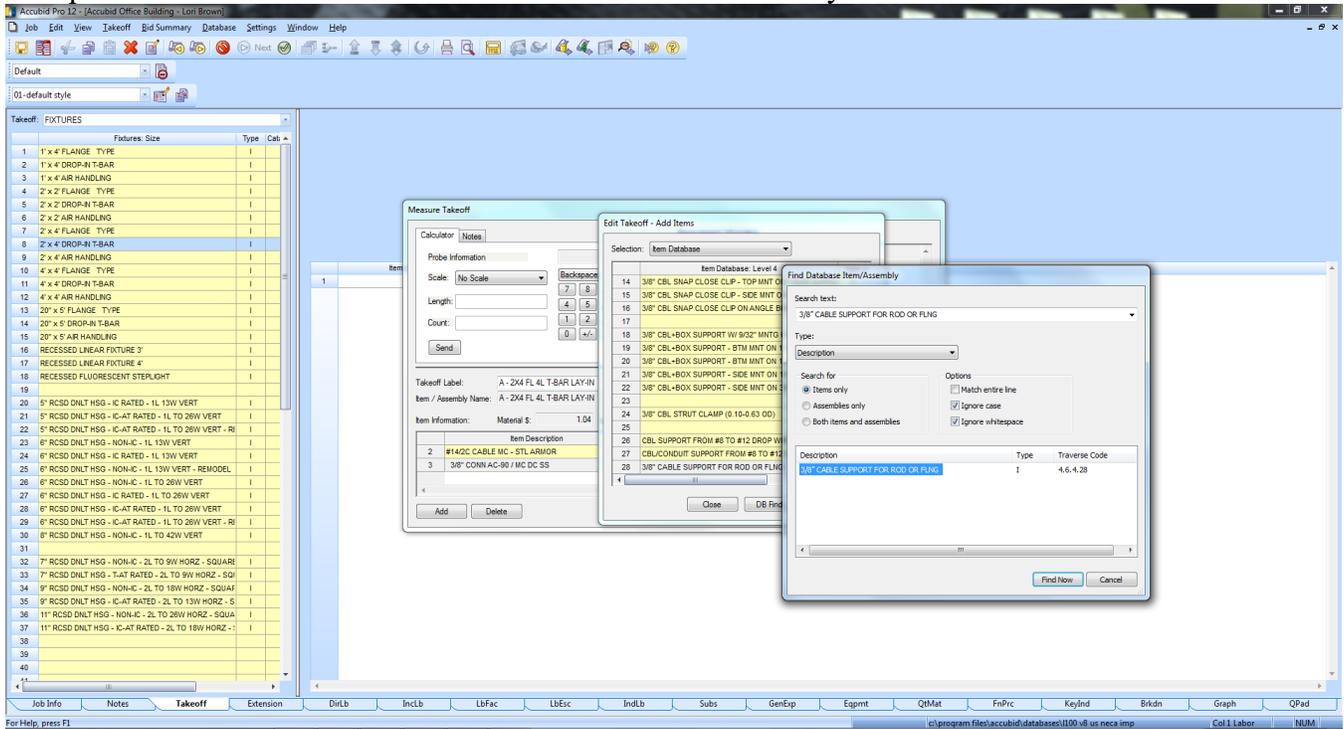


Figure 11

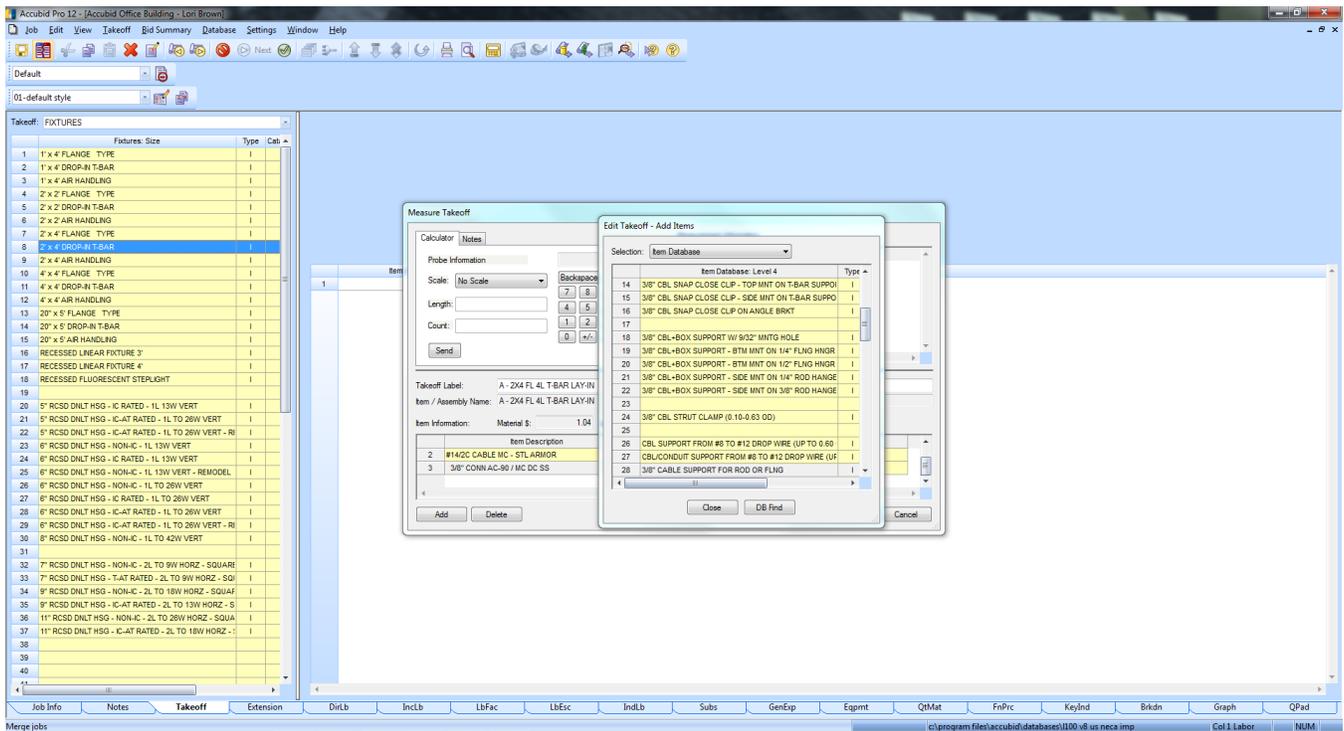


Figure 12

15. Double click on Line 28 3/8" CABLE SUPPORT FOR ROD OR FLNG to Add it to your FIXTURE DESIGNATION.

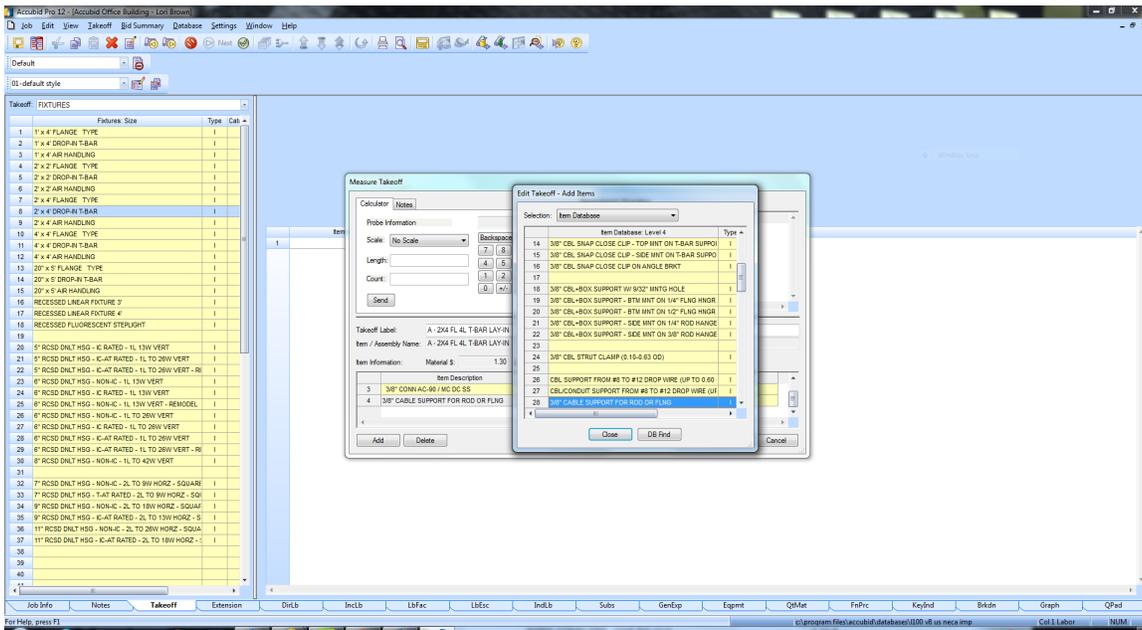


Figure 13

16. Press the Right Mouse Button Three Times to get back to **Item Database: Level 1**.
17. ADD the Remaining Items Using Either the DB Find or by Browsing the Item Database (see Traverse Codes below).

Remaining Items

- WIRE CONN YEL (#18 TO #12)
- CEILING CLIP W/ 27mm STD NAIL - STL/CONC
- #12 CEILING WIRE
- T-BAR CLIP FOR STRAIGHT LIP LAY-IN FIXTURE

Traverse Codes (Item Database)

- 4.10.5
- 8.11.8.1
- 8.13.3.4
- 8.9.14.1

18. Click the Close button to close the Edit Takeoff – Add Items Window

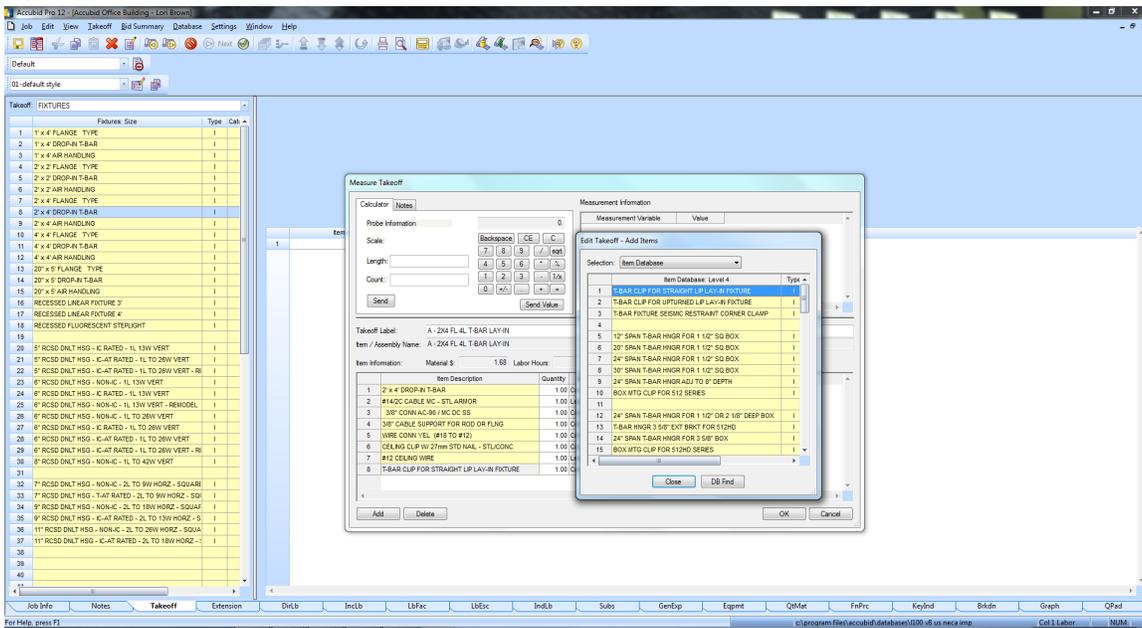


Figure 14

All Items have now been Added to the Fixture Designation.

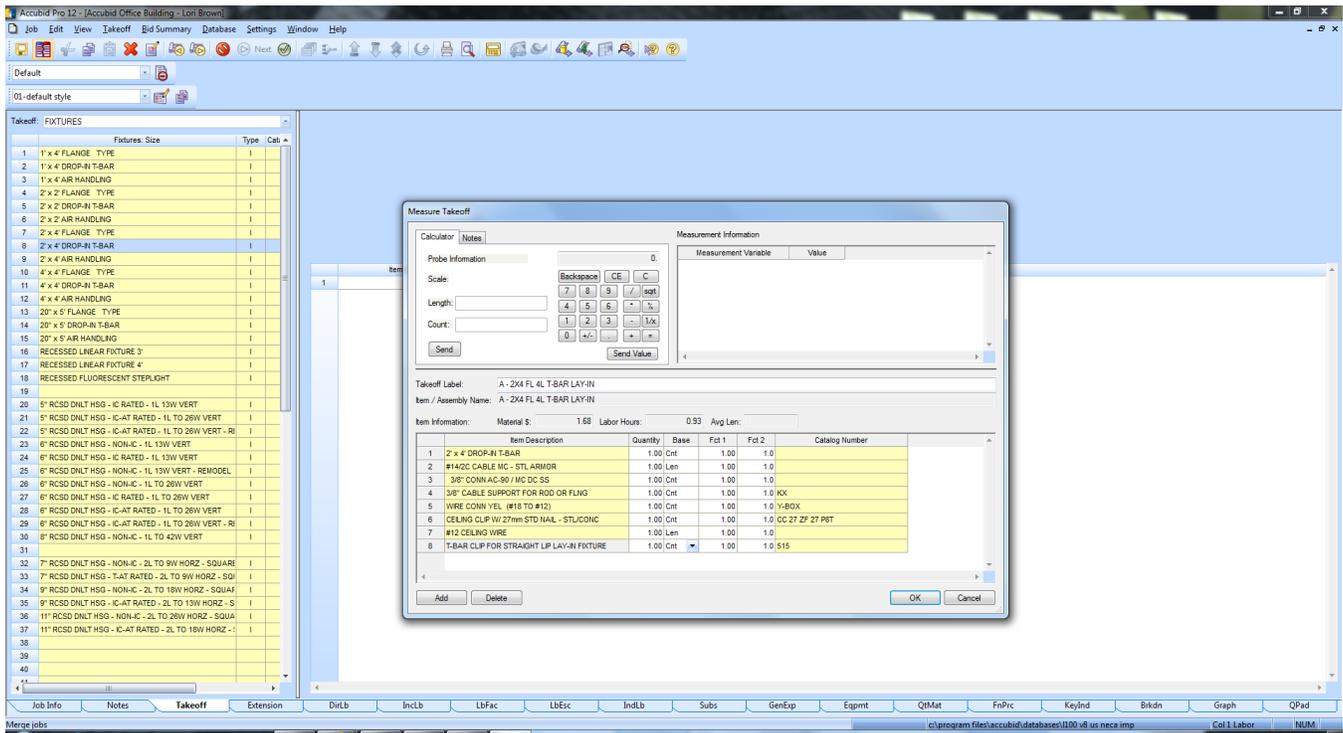


Figure 15

In the Measure Takeoff dialog box the Quantity of Each Item is determined by the Base and the variables Fct 1 and Fct 2.

Base can be set to Cnt, Len, or Abs [i.e. Based on Count, Length, or Absolute (fixed)]

Fct 1 is a Multiplier

Fct 2 is a Divider

**NEVER TYPE IN THE QUANTITY FIELD UNLESS INSTRUCTED TO!**

19. For each FIXTURE A Designation taken off we want to include the QTY of material shown below. Change the following for each item, if necessary, the Base, Fct 1 and Fct 2 as shown below:

<u>ITEM</u>	<u>Base</u>	<u>Fct 1</u>	<u>Fct 2</u>
2' x 4' DROP-IN T-BAR	Cnt	1.00	1.0
#14/2C CABLE MC - STL ARMOR	Cnt	7.00	1.0
3/8" CONN AC-90 / MC DC SS	Cnt	2.00	1.0
3/8" CABLE SUPPORT FOR ROD OR FLNG	Cnt	1.00	1.0
WIRE CONN YEL (#18 TO #12)	Cnt	3.00	1.0
CEILING CLIP W/ 27mm STD NAIL - STL/CONC	Cnt	2.00	1.0
#12 CEILING WIRE	Cnt	14.00	1.0
T-BAR CLIP FOR STRAIGHT LIP LAY-IN FIXTURE	Cnt	4.00	1.0

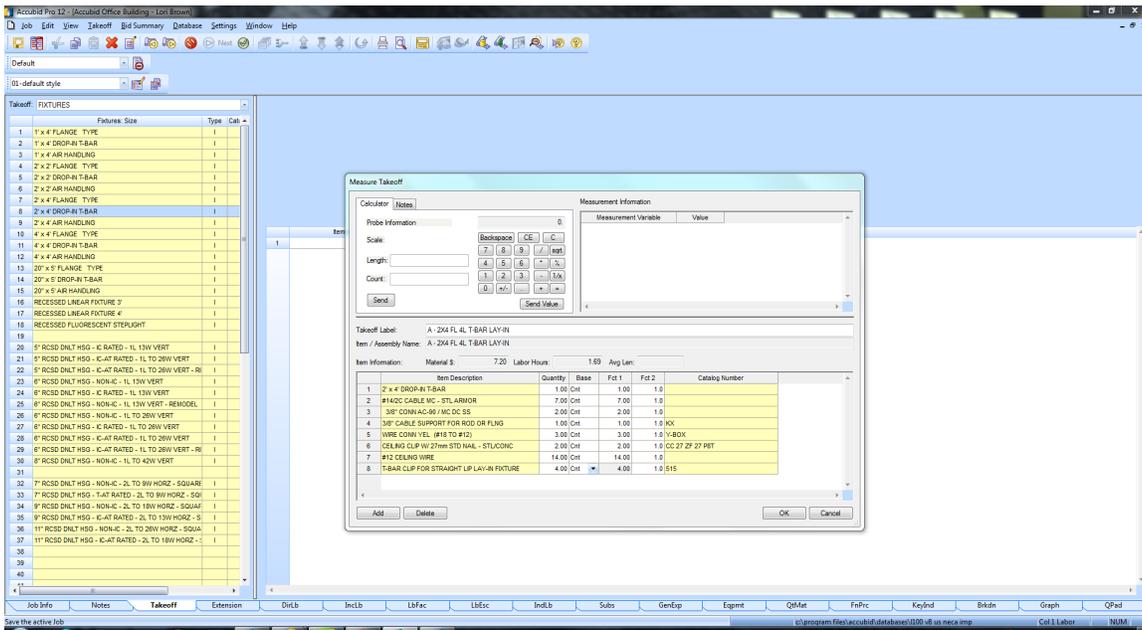


Figure 16

20. Click the OK button.

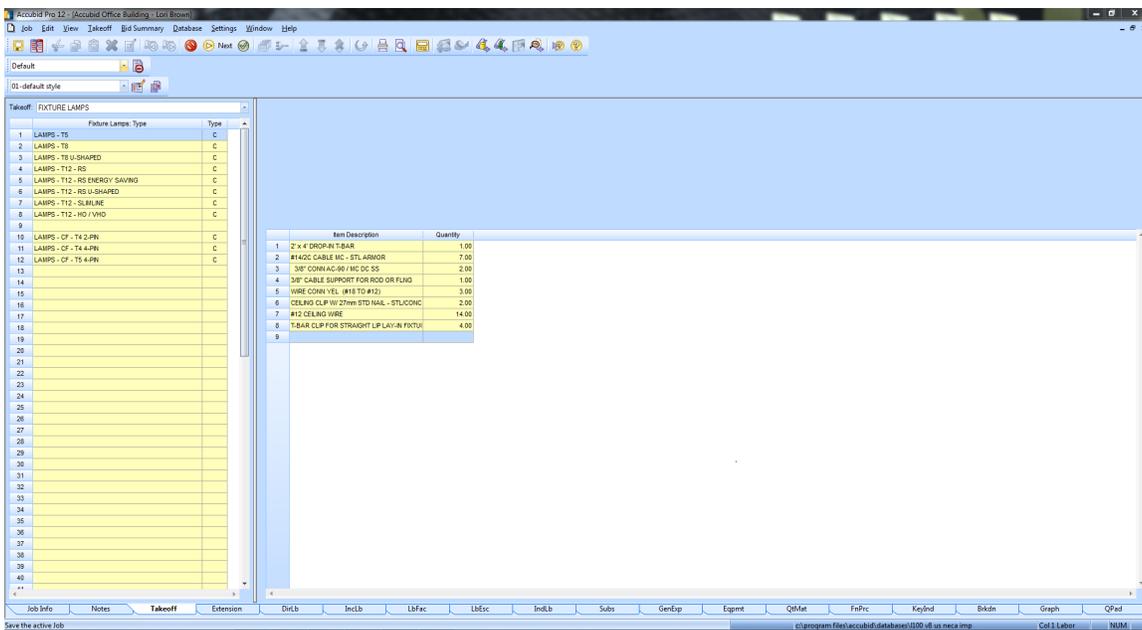


Figure 17

**The Fixture Lamps: Type screen appears next [Takeoff:]**

21. To Add Lamps to your Fixture Designation double click on:

- LAMPS – T8 Line 2
- 48" 3500K 78 CRI 32W LAMP - T8 Line 8

22. Change the Count per Unit Value to 4.00 and press the enter key.

23. Click OK to Add the Lamps to the Fixture Designation

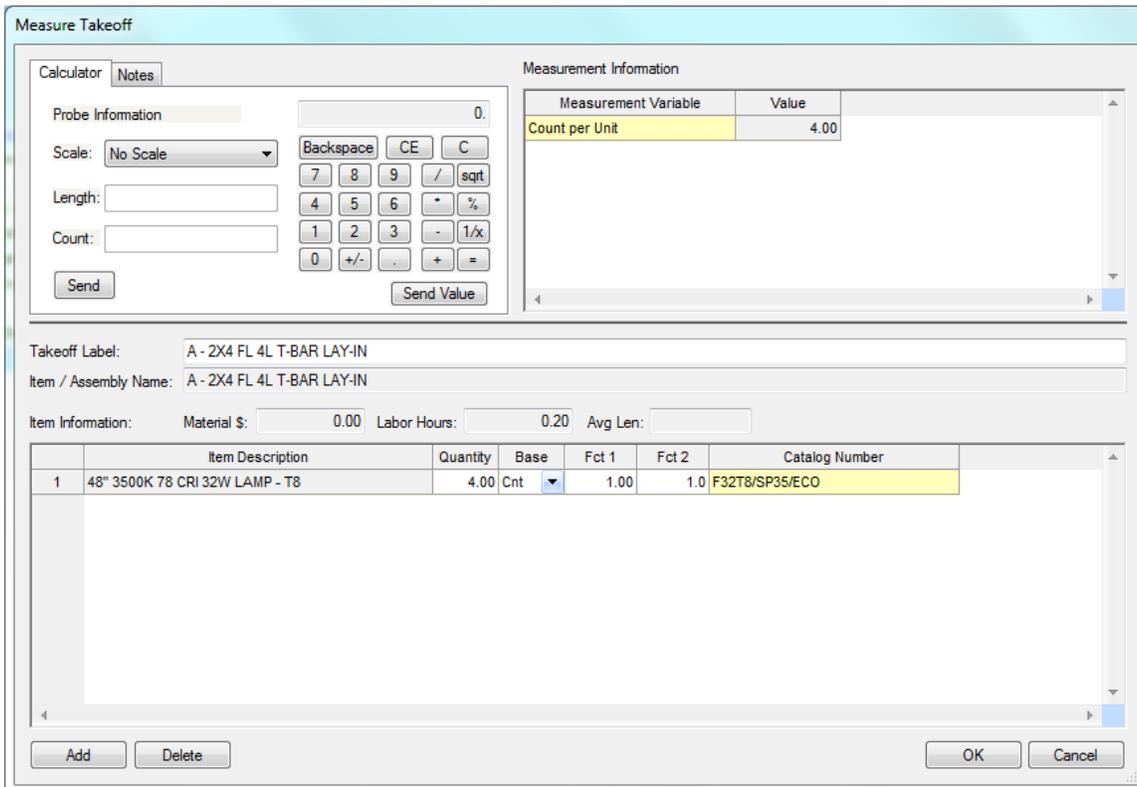


Figure 18

24. Right Click in the Fixture Item List and click  Finish

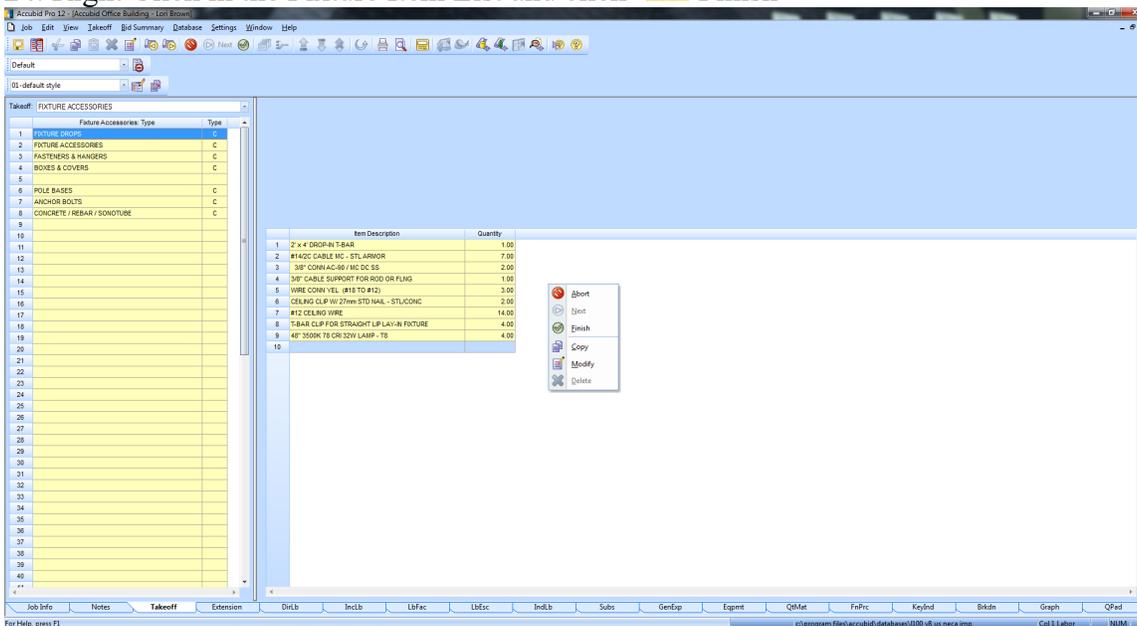


Figure 19

The completed Fixture Designation displays in the Takeoff: Fixtures designation list on Line 1.

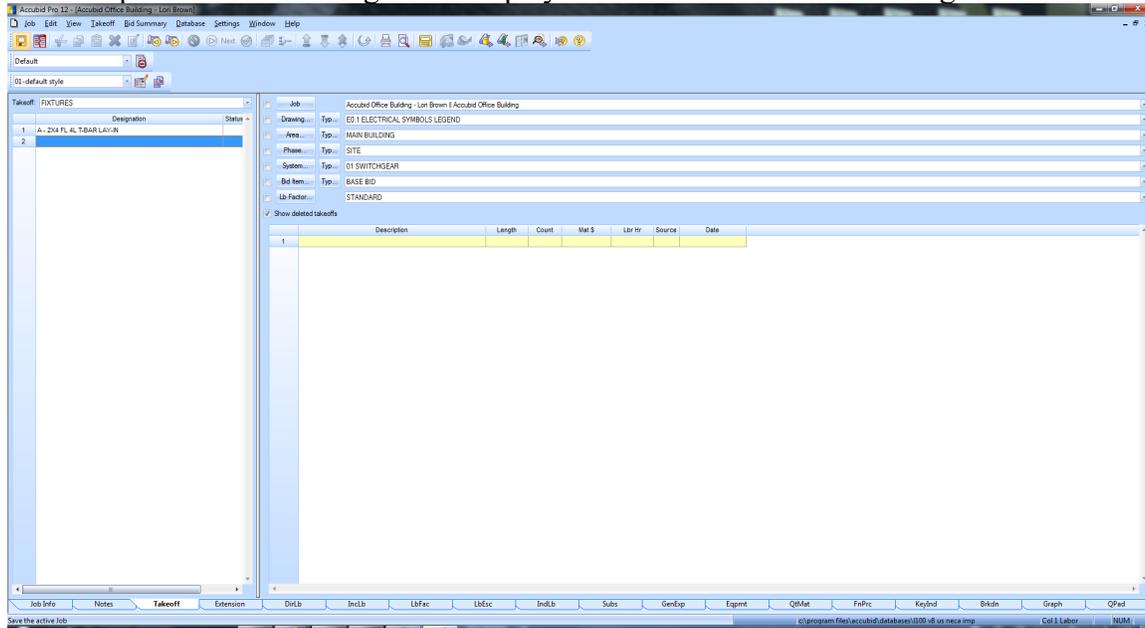


Figure 20

**JUST READ. No steps involved.**

Note: **If** you double click on the Fixture Designation that is the command to “Takeoff” the Fixture and it brings up the Designation Count Dialog box, Figure 21.

To abort a takeoff click Cancel.

**Never perform a Takeoff without first checking the BREAKDOWN!**

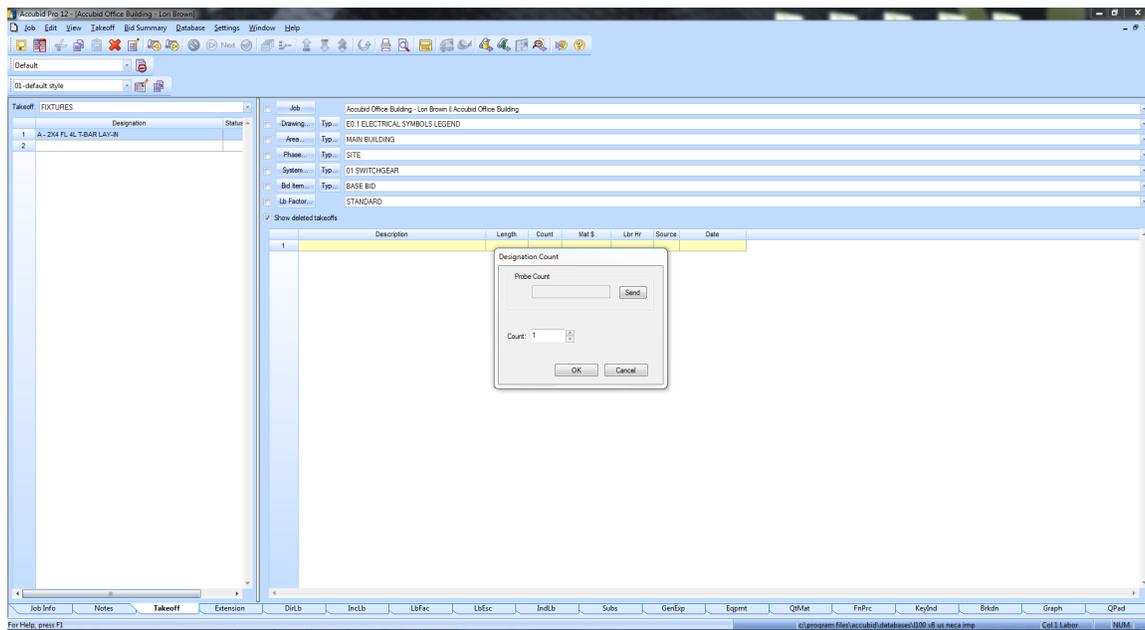


Figure 21

**If** you need to Edit or Change the Fixture Designation you **RIGHT CLICK** on the Fixture Designation name and Select Modify.

**To Build Fixtures A1 and A2 follow these steps:**

25. Right Click on the Fixture Designation: A - 2X4 FL 4L T-BAR LAY-IN and click Copy.
26. Right click on Line 2 and select Paste.
27. Right click on Line 3 and select Paste.
28. Right click on Line 2 and select Modify.
29. Double click on Line 9 in the Item Description box and change the number of Lamps to 3, then click on OK.
30. To finish the changes, you can either click on the  Finish Takeoff button on the Toolbar, or right click on the list of items and select Finish.
31. In the Create/Modify Designation Description box edit the Fixture Designation name to:  
A1 - 2X4 FL 3L T-BAR LAY-IN

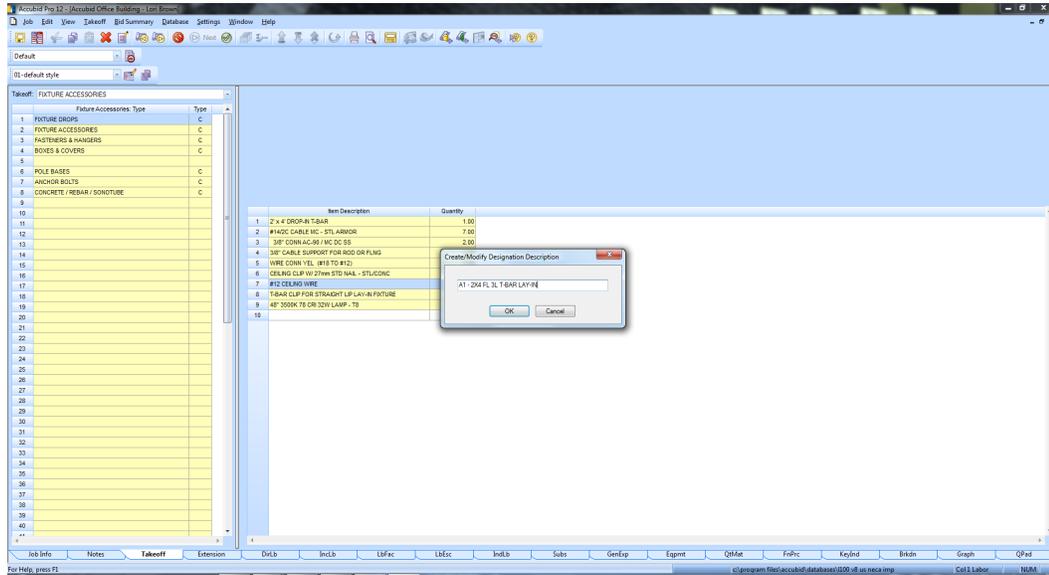


Figure 22

32. Repeat this Procedure to change the number of lamps to 2 for Fixture A2, and rename the Fixture Designation to: A2 - 2X4 FL 2L T-BAR LAY-IN

The Fixture Designation List now displays the three designations.

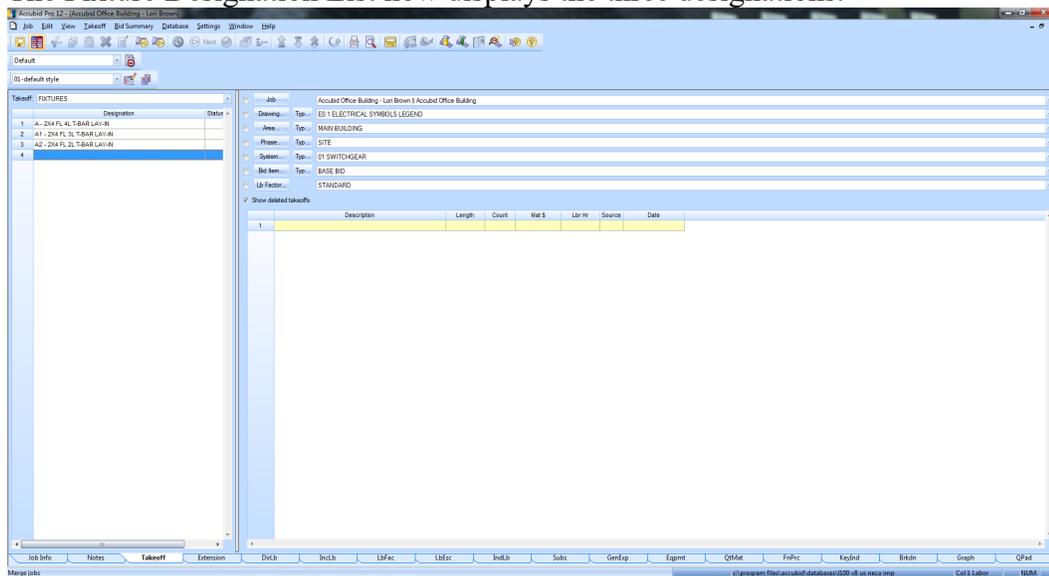


Figure 23

**To create Fixture Designations from already existing “Assemblies” follow these steps:**

33. Double Click on Line 4 to create a new Fixture Designation.
34. In the Create/Modify Designation Description box enter: B – 2X2 FL 2UL T-BAR LAY-IN and click on OK.
35. Click on:  
Fixtures: Category           FLUORESCENT LUMINAIRES (Line 1)  
Fixtures: Type                **FLUORESCENT LUMINAIRES ASSEMBLIES\*\*\* (Line 4)**
36. Double Click on 2' x 2' DROP-IN T-BAR (14/2 WHIP) (Line 2)
37. Click on OK
38. Double Click on LAMPS – T8 U-SHAPED (Line 3)
39. Double Click on 24" 3500K 78 CRI 32W LAMP - T8 6" SPACING (Line 2)
40. Change the Count per Unit value to 2 and click OK.
41. Right click and select Finish. Click OK.

Using the Fixture Designation names shown in Figure 24:

42. Complete building all of the remaining Fixture Designations using:  
For FL (Fluorescent) Fixtures:  
FLUORESCENT LUMINAIRES (Line 1)  
FLUORESCENT LUMINAIRES ASSEMBLIES\*\*\* (Line 4)  
  
For INC (Incandescent) Fixtures:  
INCANDESCENT LUMINAIRES (Line 2)  
INCANDESCENT LUMINAIRE ASSEMBLIES \*\*\* (Line 11)  
  
For HID (High Intensity Discharge) Fixtures:  
HID (High Intensity Discharge) LUMINAIRES (Line 4)  
HID LUMINAIRES - ASSEMBLIES \*\*\* (Line 9)  
  
For Exit Light Fixtures:  
EMERGENCY & EXIT LUMINAIRES [Line 3]  
EXIT & EMERGENCY LIGHTING ASSEMBLIES \*\*\* [Line 5]

Use the Fixture Schedule (E6.1) to locate the correct type and quantity of lamp to add to the designation.

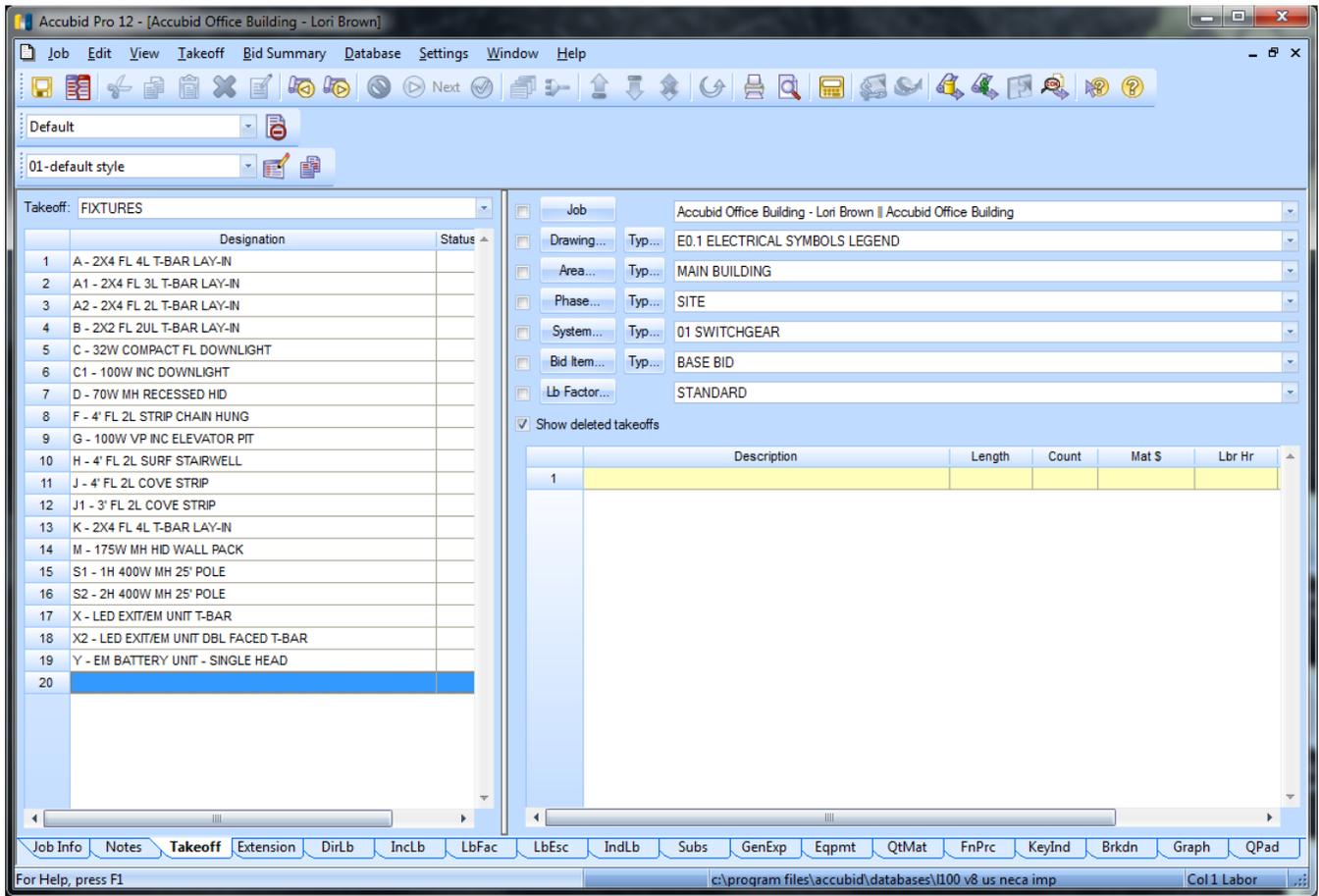


Figure 24

E6.1 – ELECTRICAL LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	VOLTAGE	LAMPS	MANUF. & CATALOG #	FIXTURE TYPE	DESCRIPTION	VOLTAGE	LAMPS	MANUF. & CATALOG #
"A"	2'x4' FLUORESCENT LAY-IN LIGHT FIXTURE, 4-LAMP, 3" DEEP (18) CELL PARABOLIC SPECULAR LOUVER, COLD ROLLED STEEL HOUSING AND DOOR, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST.	277	(4) 32 WATT (FLUOR.) (F32T8/35K)	COOPER # 2EP3GAX-432S361-277V-L8735-EB81-U	"J1"	SAME AS TYPE "J" EXCEPT 36" IN LENGTH.	277	(2) 26 WATT (FLUOR.) (F26T8/35K)	COOPER # SNL-226-277V-L44-LBU1-U
"A1"	2'x4' FLUORESCENT LAY-IN LIGHT FIXTURE, 3-LAMP, 3" DEEP (18) CELL PARABOLIC SPECULAR LOUVER, COLD ROLLED STEEL HOUSING AND DOOR, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST.	277	(3) 32 WATT (FLUOR.) (F32T8/35K)	COOPER # 2EP3GAX-332S361-277V-L8735-EB81-U	"K"	2'x4' FLUORESCENT LAY-IN LIGHT FIXTURE, 4-LAMP, .125" PRISMATIC LENSE, COLD ROLLED STEEL HOUSING, EXTRUDED ALUMINUM DOOR, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST.	277	(4) 32 WATT (FLUOR.) (F32T8/35K)	COOPER # 2CC-NF-432A125-277V-L8735-EB81-U
"A2"	2'x4' FLUORESCENT LAY-IN LIGHT FIXTURE, 2-LAMP, 3" DEEP (18) CELL PARABOLIC SPECULAR LOUVER, COLD ROLLED STEEL HOUSING AND DOOR, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST.	277	(2) 32 WATT (FLUOR.) (F32T8/35K)	COOPER # 2EP3GAX-232S361-277V-L8735-EB81-U	"M"	METAL HALIDE WALL PACK LIGHT FIXTURE, DIE-CAST ALUMINUM ONE-PIECE HOUSING AND DOOR FRAME, CLEAR, PRISMATIC LENS, WIDE FLOOD DISTRIBUTION, POWDER COAT FINISH (COLOR BY ARCH.), FULLY GASKETED, WET LOCATION LISTED. PROVIDE WITH COLD WEATHER MULTI-TAP HPF BALLAST.	277	(1) 175 WATT (M.H.)	COOPER # 2CC-NF-432A125-277V-L8735-EB81-U
"B"	2'x2' FLUORESCENT LAY-IN LIGHT FIXTURE, 2-LAMP, 3" DEEP (9) CELL PARABOLIC SPECULAR LOUVER, COLD ROLLED STEEL HOUSING AND DOOR, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST.	277	(2) 32 WATT (FLUOR.) (F32T8/35K)	COOPER # 2EP3GAX-232S361-277V-L8735-EB81-U	"S"	METAL HALIDE BOLLARD LIGHT FIXTURE, DIE-CAST ALUMINUM ONE-PIECE HOUSING, CLEAR, POLYCARBONATE LENS, POWDER COAT FINISH (COLOR BY ARCH.), FULLY GASKETED, WET LOCATION LISTED. PROVIDE WITH COLD WEATHER MULTI-TAP HPF BALLAST.	277	(1) 50 WATT (M.H.)	GREENLEE # ABS-50MH-MT-277V-EL-BLK-P1
"C"	6"Ø RECESSED COMPACT FLUORESCENT DOWNLIGHT, 5 1/16" APERTURE, SPECULAR CLEAR LOW IRIDESCENT REFLECTOR, WHITE POLYMER TRIM RING, INSTANT START ELECTRONIC BALLAST.	277	(1) 32W TRIPLE (COMP. FLUOR.) (4-PIN/35K)	COOPER # C60321E-6050U1-277V	"S1"	SINGLE HEAD AREA LUMINAIRE (RECTANGULAR), ONF-PIECE DIE-CAST HOUSING AND DOOR FRAME, CLEAR GLASS LENS, HYDROFORMED ALUMINUM REFLECTOR (TYPE III DISTRIBUTION), BLACK POWDER COAT FINISH, FULLY GASKETED, U.L. LISTED WET LOCATION. PROVIDE WITH MOUNTING ARM, HORIZONTAL LAMP, MOUNTED ON A 2 1/2" ABOVE GRADE CONCRETE BASE. CONNECT AT 277 VOLTS.	277	(1) 400 WATT (Mogul Base M.H.)	FIXTURE: COOPER # MHHR-R3-400MH-MT-277V-BLK-M59PJ-400/UGF w/ 0A1064C001
"C1"	5 3/4"Ø RECESSED INCANDESCENT DOWNLIGHT, 4 7/16" APERTURE, SPECULAR CLEAR LOW IRIDESCENT REFLECTOR, WHITE POLYMER TRIM RING.	120	(1) 100W (INC.)	COOPER # HD4-4510L1-120V	"S2"	SAME AS TYPE "S1" EXCEPT w/ (2) HEAD CONFIGURATION (180° ORIENTATION/SEPARATION).	277	(2) 400 WATT (Mogul Base M.H.)	FIXTURE: COOPER # MHHR-R3-400MH-MT-277V-BLK-M59PJ-400/UGF w/ 0A1064C002
"C2"	5"Ø RECESSED INCANDESCENT LOW VOLTAGE DOWNLIGHT, 1 7/8" ØPFA ØØI FX APERTURE, BLACK RAFFIA, WHITE POLYMER TRIM RING, DUAL TAP INTEGRAL MAGNETIC STEP-DOWN TRANSFORMER (120V TO 12V).	120	(1) 75W (MR16 INC.)	COOPER # H149175-1419-120V-P	"X"	SINGLE FACE UNIVERSAL MOUNTED "LED" EXIT SIGN, CAST ALUMINUM HOUSING AND DOOR FRAME, RED LETTERS AND CHEVRONS, DIRECTIONAL CHEVRON ARROWS AS INDICATED ON DWGS., INSTANT START EMERGENCY BALLAST.	277	INCLUDED (LED)	COOPER # CX-7-1-70-R-D-277V
"D"	8"Ø RECESSED METAL HALIDE DOWNLIGHT, 8 1/2" APERTURE, SPECULAR CLEAR LOW IRIDESCENT REFLECTOR, BLACK BAFFLE AND WHITE TRIM RING, HPF BALLAST.	277	(1) 70W (M.H.)	COOPER # M6024T-740-10002P-MP100/U/MED-277V	"X2"	DOUBLE FACE UNIVERSAL MOUNTED "LED" EXIT SIGN, CAST ALUMINUM HOUSING AND DOOR FRAME, RED LETTERS AND CHEVRONS, DIRECTIONAL CHEVRON ARROWS AS INDICATED ON DWGS., INSTANT START EMERGENCY BALLAST.	277	INCLUDED (LED)	COOPER # CX-7-2-70-R-D-277V
"E"	1'x4" SUSPENDED STRIP FLUORESCENT LIGHT FIXTURE, 2-LAMP, COLD ROLLED STEEL HOUSING, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST. PROVIDE w/ CHAIN SET AND WIRE GUARD.	277	(2) 32 WATT (FLUOR.) (F32T8/35K)	COOPER # SS-232-277V-EB81-U w/ AYC-CHAIN/SET-U & WG/SS-4FT-U	"Y"	4 1/2" SURFACE INCANDESCENT SINGLE HEAD LUMINAIRE <RECTANGULAR> ONE-PIECE THERMOPLASTIC HOUSING, WHITE FINISH, C/W BATTERY.	277	(1) 4V BI-PIN HALOGEN LAMP	COOPER # MML
"F"	WALL MOUNTED INCANDESCENT ELEVATOR PIT LIGHT FIXTURE, MATTE BLACK FINISH, 120V, U.L. LISTED FOR WET LOCATION. PROVIDE w/ OPAL GLASS CYLINDER LENS AND WIRE GUARD.	120	(1) 100W A19 (INCAND.)	HALO # H2411-MB-120V w/ WG11					
"H"	8'x48" FLUORESCENT SURFACE MOUNTED LIGHT FIXTURE, 2-LAMP, CLEAR ACRYLIC PRISMATIC LENS, COLD ROLLED STEEL HOUSING AND DOOR, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST.	277	(2) 32 WATT (FLUOR.) (F32T8/35K)	COOPER # BI-232-277V-EB81-U					
"J"	2 3/4"x48" NARROW STAGGERED FLUORESCENT SURFACE MOUNTED LIGHT FIXTURE, 2-LAMP, COLD ROLLED STEEL HOUSING AND DOOR, BAKED WHITE POWDER ENAMEL FINISH, INSTANT START ELECTRONIC BALLAST.	277	(2) 32 WATT (FLUOR.) (F32T8/35K)	COOPER # SNL-232-277V-EB81-U					

## Printing Fixture Designations

1. Select Takeoff: FIXTURES.
2. Click on the Job menu and click on the Print command.
3. Uncheck Use screen layout
4. Click Clear All.
5. Place a check in the Job Info box.
6. Click on the plus sign next to Designations and select the Current Designation List radio button.
7. Click Print.
8. Click the Save icon on the toolbar or File, Save from the menu bar.

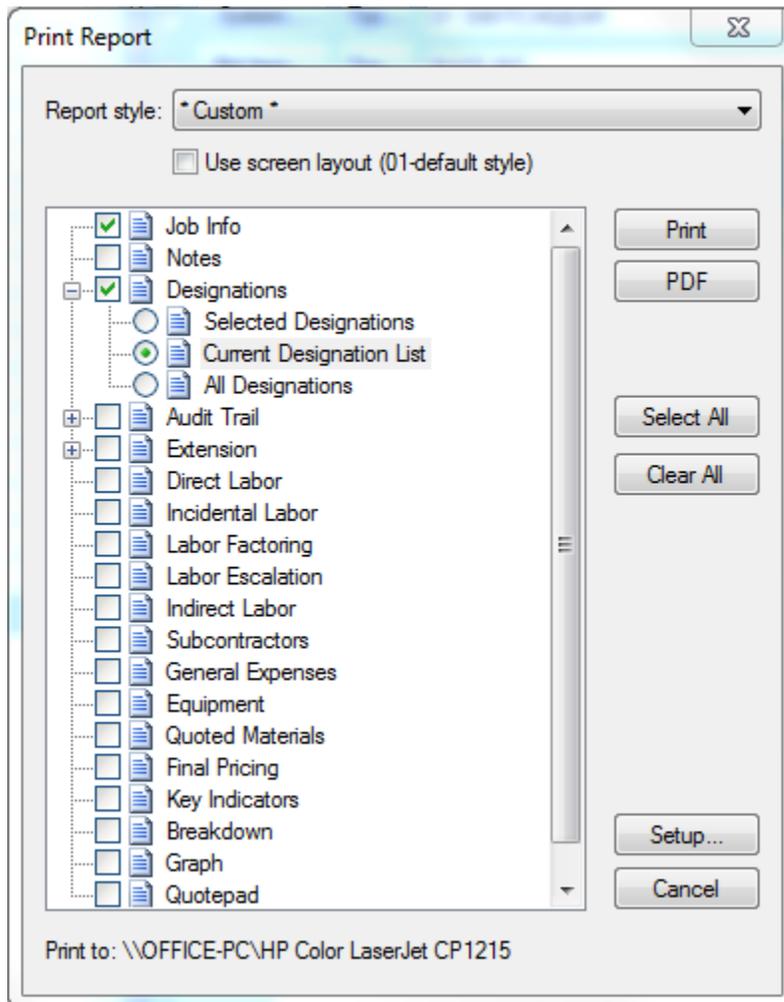


Figure 25

Once all of the Fixture Designations have been built, the estimator is now ready to begin entering the quantities of each fixture type (designation). Typically, light fixtures counts are entered by Drawing, Phase (floor) and by System.

## Fixture Takeoff

43. Set the Breakdown Labels as shown in Figure 26
44. Obtain your 06 FIXTURES completed take off sheet and the Red Pencil form your toolkit.
45. In the Takeoff: FIXTURES double click on the designation A-2x4 FL 4L T-BAR LAY-IN
46. Change the count in the Designation Count window to the number on your take off sheet and click Ok.  
Draw a RED LINE through the number on your take off sheet. Repeat for all the fixtures in the basement. See Figure 26.

Description	Length	Count	Mat \$	Lbr Hr	So..	Date
1 A - 2X4 FL 4L T-BAR LAY-IN	1.00	1.00	7.20	1.89		9/16/2020 9:47
2 A2 - 2X4 FL 2L T-BAR LAY-IN	22.00	22.00	158.34	39.44		9/16/2020 9:47
3 B - 2X2 FL 2UL T-BAR LAY-IN	0.00	1.00	7.20	1.74		9/16/2020 9:47
4 F - 4' FL 2L STRIP CHAIN HUNG	0.00	20.00	192.59	29.82		9/16/2020 9:47
5 G - 100W VP INC ELEVATOR PIT	0.00	1.00	20.45	2.23		9/16/2020 9:47
6 H - 4' FL 2L SURF STAIRWELL	0.00	2.00	5.34	3.34		9/16/2020 9:47
7 M - 175W MH HID WALL PACK	0.00	1.00	2.32	1.64		9/16/2020 9:47
8 X - LED EXIT/EM UNIT T-BAR	0.00	5.00	81.97	9.40		9/16/2020 9:47
9 Y - EM BATTERY UNIT - SINGLE HEAD	0.00	6.00	81.43	15.07		9/16/2020 9:47
10						

Figure 26

47. Change the Breakdown labels:  
Drawing E2.1 FIRST FLOOR-LIGHTING  
Phase FIRST FLOOR
48. In the Takeoff: FIXTURES double click on the designation A-2x4 FL 4L T-BAR LAY-IN
49. Change the count in the Designation Count window to the number on your take off sheet and click Ok.  
Draw a RED LINE through the number on your take off sheet. Repeat for all the fixtures on the first floor.

Trimble® Accubid Classic Estimating Pro 15 - [Accubid Office Building - Lori Brown - ACT2.es15]

Job Edit View Takeoff Bid Summary Database Settings Window Help

01-default style

Default

Takeoff: FIXTURES

	Designation	Status	Quantity
1	A - 2X4 FL 4L T-BAR LAY-IN		9.00
2	A1 - 2X4 FL 3L T-BAR LAY-IN		12.00
3	A2 - 2X4 FL 2L T-BAR LAY-IN		23.00
4	B - 2X2 FL 2UL T-BAR LAY-IN		36.00
5	C - 32W COMPACT FL DOWNLIGHT		30.00
6	C1 - 100W INC DOWNLIGHT		9.00
7	D - 70W MH RECESSED HD		9.00
8	F - 4' FL 2L STRIP CHAIN HUNG		7.00
9	G - 100W VP INC ELEVATOR PIT		
10	H - 4' FL 2L SURF STAIRWELL		4.00
11	J - 4' FL 2L COVE STRIP		5.00
12	J1 - 3' FL 2L COVE STRIP		2.00
13	K - 2X4 FL 4L T-BAR LAY-IN		6.00
14	M - 175W MH HID WALL PACK		3.00
15	S1 - 1H 400W MH 25' POLE		
16	S2 - 2H 400W MH 25' POLE		
17	X - LED EXIT/EM UNIT T-BAR		11.00
18	X2 - LED EXIT/EM UNIT DBL FACED T-BAR		2.00
19	Y - EM BATTERY UNIT - SINGLE HEAD		8.00
20			

Job: Accubid Office Building - Lori Brown - ACT2 || Accubid Office Building

Drawing... Typ... E2.1 FIRST FLOOR PLAN - LIGHTING

Area... Typ... MAIN BUILDING

Phase... Typ... FIRST FLOOR

System... Typ... 06 FIXTURES

Bid Item... Typ... BASE BID

Lb Factor... Typ... STANDARD

Show deleted takeoffs

	Description	Length	Count	Mat \$	Lbr Hr	So...	Date
1	A - 2X4 FL 4L T-BAR LAY-IN	9.00	9.00	64.78	17.03		9/16/2020 10:0
2	A1 - 2X4 FL 3L T-BAR LAY-IN	12.00	12.00	86.37	22.11		9/16/2020 10:0
3	A2 - 2X4 FL 2L T-BAR LAY-IN	23.00	23.00	165.53	41.22		9/16/2020 10:0
4	B - 2X2 FL 2UL T-BAR LAY-IN	0.00	36.00	259.10	62.73		9/16/2020 10:0
5	C - 32W COMPACT FL DOWNLIGHT	0.00	30.00	8.44	31.20		9/16/2020 10:0
6	C1 - 100W INC DOWNLIGHT	0.00	9.00	184.15	20.03		9/16/2020 10:0
7	D - 70W MH RECESSED HD	0.00	9.00	2.53	14.40		9/16/2020 10:0
8	F - 4' FL 2L STRIP CHAIN HUNG	0.00	7.00	67.41	10.44		9/16/2020 10:0
9	H - 4' FL 2L SURF STAIRWELL	0.00	4.00	10.69	6.68		9/16/2020 10:0
10	J - 4' FL 2L COVE STRIP	0.00	5.00	36.55	5.14		9/16/2020 10:0
11	J1 - 3' FL 2L COVE STRIP	0.00	2.00	14.61	1.96		9/16/2020 10:0
12	K - 2X4 FL 4L T-BAR LAY-IN	0.00	6.00	43.18	11.36		9/16/2020 10:0
13	M - 175W MH HID WALL PACK	0.00	3.00	6.95	4.92		9/16/2020 10:0
14	X - LED EXIT/EM UNIT T-BAR	0.00	11.00	180.36	20.68		9/16/2020 10:0
15	X2 - LED EXIT/EM UNIT DBL FACED T-BAR	0.00	2.00	32.79	3.76		9/16/2020 10:0
16	Y - EM BATTERY UNIT - SINGLE HEAD	0.00	8.00	108.57	20.08		9/16/2020 10:0
17							

Job Info Notes **Takeoff** Extensi... DirLb Inclb LbFac LbEsc IndLb Subs GenExp Eqpmt QtMat FnPrc KeyInd Brkdn Graph QPad

For Help, press F1

d:\accubid\databases\100 v8 us neca imp Col 1 Labor NUM

Figure 27

Note: The Check Boxes in Breakdown can be used to “Filter” the Audit Trail. When a box is checked, only material that was taken off using the Breakdown Label(s) selected will display in the Audit Trail.

## Performing Fixture Takeoff Using Typical (Typ...)

The Typical takeoff can be used when an estimate has repetitive takeoff, for example, fixtures are the same for each floor.

1. To create the **Typical** label click the **Typ...** button next to the **Phase...** button.

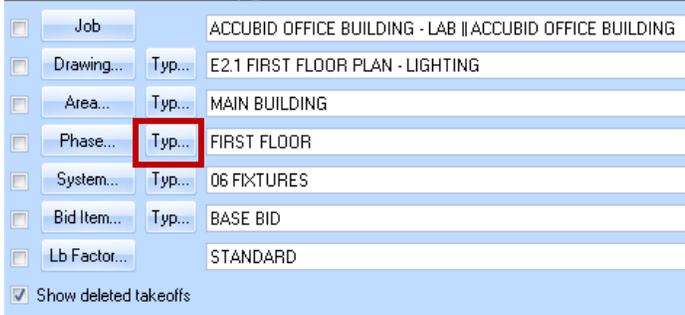


Figure 28

The Typical Phase Modify Window opens.

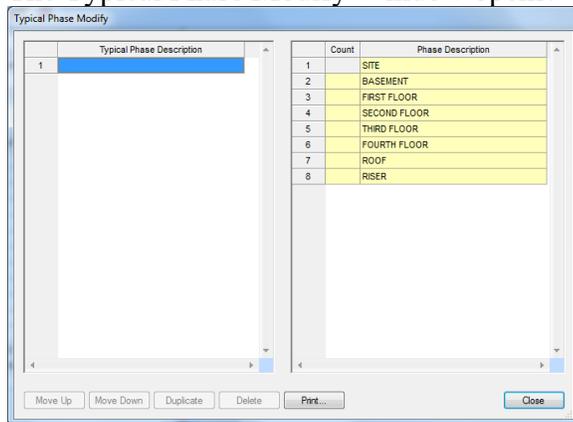


Figure 29

2. Modify the dialog box as shown in Figure 30 and click Close.

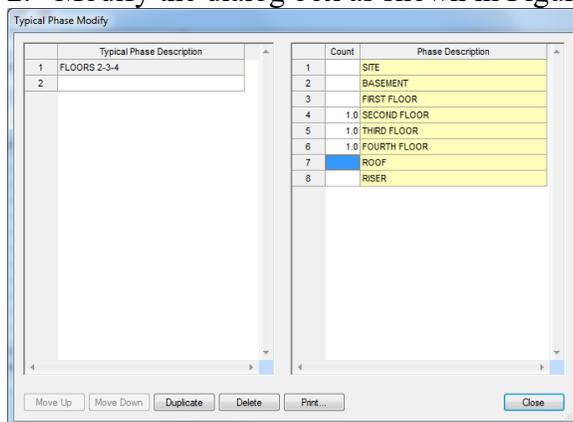


Figure 30

Since the fixture takeoff repeats itself on different floors, called phases, a count value must be entered for each of the Phase Descriptions (floors) that include fixtures.

Enter in 1.0 in the count field for floors 2, 3, 4.

50. Change the Breakdown labels:

Drawing E2.2 TYPICAL FLOOR PLAN (2ND TO 4TH) - LIGHTING

Phase Typical – FLOORS 2-3-4

Job: Accubid Office Building - Lori Brown - ACT2 || Accubid Office Building

Drawing... Typ...: E2.2 TYPICAL FLOOR PLAN (2ND TO 4TH) - LIGHTING

Area... Typ...: MAIN BUILDING

Phase... Typ...: Typical - FLOORS 2-3-4

System... Typ...: 06 FIXTURES

Bid Item... Typ...: BASE BID

Lb Factor...: STANDARD

Show deleted takeoffs

Figure 31

51. In the Takeoff: FIXTURES double click on the designation A-2x4 FL 4L T-BAR LAY-IN

52. Change the count in the Designation Count window to the number on your take off sheet and click Ok.

Draw a RED LINE through the number on your take off sheet. Repeat for all the fixtures on the E2.2 TYPICAL FLOOR PLAN (2ND to 4TH) - LIGHTING.

Trimble® Accubid Classic Estimating Pro 15 - [Accubid Office Building - Lori Brown - ACT2.es15]

Job: Accubid Office Building - Lori Brown - ACT2 || Accubid Office Building

Drawing... Typ...: E2.2 TYPICAL FLOOR PLAN (2ND TO 4TH) - LIGHTING

Area... Typ...: MAIN BUILDING

Phase... Typ...: Typical - FLOORS 2-3-4

System... Typ...: 06 FIXTURES

Bid Item... Typ...: BASE BID

Lb Factor...: STANDARD

Show deleted takeoffs

Designation	Status	Quantity
1 A - 2X4 FL 4L T-BAR LAY-IN		171.00
2 A1 - 2X4 FL 3L T-BAR LAY-IN		
3 A2 - 2X4 FL 2L T-BAR LAY-IN		
4 B - 2X2 FL 2UL T-BAR LAY-IN		
5 C - 32W COMPACT FL DOWNLIGHT		63.00
6 C1 - 100W INC DOWNLIGHT		
7 D - 70W MH RECESSED HD		
8 F - 4' FL 2L STRIP CHAIN HUNG		18.00
9 G - 100W VP INC ELEVATOR PIT		
10 H - 4' FL 2L SURF STAIRWELL		12.00
11 J - 4' FL 2L COVE STRIP		15.00
12 J1 - 3' FL 2L COVE STRIP		6.00
13 K - 2X4 FL 4L T-BAR LAY-IN		
14 M - 175W MH HID WALL PACK		
15 S1 - 1H 400W MH 25' POLE		
16 S2 - 2H 400W MH 25' POLE		
17 X - LED EXIT/EM UNIT T-BAR		3.00
18 X2 - LED EXIT/EM UNIT DBL FACED T-BAR		12.00
19 Y - EM BATTERY UNIT - SINGLE HEAD		24.00
20		

Description	Length	Count	Mat \$	Lbr Hr	So...	Date
1 A - 2X4 FL 4L T-BAR LAY-IN	57.00	57.00	410.25	107.88		9/16/2020 10:1
2 C - 32W COMPACT FL DOWNLIGHT	0.00	21.00	5.91	21.84		9/16/2020 10:1
3 F - 4' FL 2L STRIP CHAIN HUNG	0.00	6.00	57.78	8.95		9/16/2020 10:1
4 H - 4' FL 2L SURF STAIRWELL	0.00	4.00	10.69	6.68		9/16/2020 10:1
5 J - 4' FL 2L COVE STRIP	0.00	5.00	36.55	5.14		9/16/2020 10:1
6 J1 - 3' FL 2L COVE STRIP	0.00	2.00	14.61	1.96		9/16/2020 10:1
7 X - LED EXIT/EM UNIT T-BAR	0.00	1.00	16.40	1.88		9/16/2020 10:1
8 X2 - LED EXIT/EM UNIT DBL FACED T-BAR	0.00	4.00	65.58	7.51		9/16/2020 10:1
9 Y - EM BATTERY UNIT - SINGLE HEAD	0.00	8.00	108.57	20.08		9/16/2020 10:1
10						

Job Info | Notes | **Takeoff** | Extensi... | DirLb | InClb | LbFac | LbEsc | IndLb | Subs | GenExp | Eqpmt | QtMat | FnPrc | KeyInd | Brkdn | Graph | QPad

For Help, press F1 | d:\accubid\databases\100 v8 us neca imp | Col 1 Labor CAP NUM

Figure 32

## Accubid Extension Screen

The complete take off can be seen by viewing the Extension screen. The Extension screen will contain no items until you start taking things off.

53. Click on the Extension tab to access the screen

54. Verify the Fixture takeoff by checking the total number of each Fixture added to the estimate in the Extension screen.

The screenshot shows the Accubid Classic Estimating Pro 15 software interface. The main window displays a table of fixtures with columns for Description, Quantity, Date, Trade, Unit, Disc %, Link P..., Cost, Net Cost, DB La..., Labor, Lab..., Total Mater..., Total Hours, Material C..., Labor Co..., Weight, Unit, and Total W... Mar. The table lists various electrical fixtures such as T-bar lay-in, compact fluorescent downlights, and conduit. The bottom of the window shows a navigation bar with tabs for Job Info, Notes, Takeoff, Extens..., DirLb, InclB, LbFac, LbEsc, IndLb, Subs, GenExp, Eqpmt, QtMat, FnPrc, KeyInd, Brkdn, Graph, and QPad. The status bar at the bottom right indicates the file path and current view settings.

Description	Quan.	Date	Trade	U.	Disc %	Link P...	Cost	Net Cost	DB La...	Labor	Lab...	Total Mater...	Total Hours	Material C...	Labor Co...	Weight	Unit	Total W... Mar
A - 2X4 FL 4L T-BAR LAY-IN	181	11/25/20								0.60			108.60	Quoted	Normal		E	
A1 - 2X4 FL 3L T-BAR LAY-IN	12	11/25/20								0.60			7.20	Quoted	Normal		E	
A2 - 2X4 FL 2L T-BAR LAY-IN	45	11/25/20								0.60			27.00	Quoted	Normal		E	
B - 2X2 FL 2UL T-BAR LAY-IN	37	11/25/20								0.55			20.35	Quoted	Normal		E	
C - 32W COMPACT FL DOWNLIGHT	93	11/25/20								0.60			55.80	Quoted	Normal		E	
C1 - 100W INC DOWNLIGHT	9	3/28/20								0.60			5.40	Quoted	Normal		E	
D - 70W MH RECESSED HD	9	11/25/20								0.90			8.10	Quoted	Normal		E	
F - 4' FL 2L STRIP CHAIN HUNG	45	11/25/20								0.40			18.00	Quoted	Normal		E	
G - 100W VP INC ELEVATOR PIT	1	3/28/20								0.60			0.60	Quoted	Normal		E	
H - 4' FL 2L SURF STAIRWELL	18	11/25/20								0.75			13.50	Quoted	Normal		E	
J1 - 4' FL 2L COVE STRIP	20	11/25/20								0.40			8.00	Quoted	Normal		E	
J1 - 3' FL 2L COVE STRIP	8	11/25/20								0.35			2.80	Quoted	Normal		E	
K - 2X4 FL 4L T-BAR LAY-IN	6	11/25/20								0.60			3.60	Quoted	Normal		E	
M - 175W MH HID WALL PACK	4	11/25/20								1.00			4.00	Quoted	Normal		E	
X - LED EXIT/EM UNIT T-BAR	19	11/25/20								0.75			14.25	Quoted	Normal		E	
X2 - LED EXIT/EM UNIT DBL FACED T-BAR	14	11/25/20								0.75			10.50	Quoted	Normal		E	
Y - EM BATTERY UNIT - SINGLE HEAD	38	11/25/20								1.20			45.60	Quoted	Normal		E	
1/2" CONDUIT - EMT	580	12/13/20	39.08	C	35.00		25.40			2.88		147.32	16.70	Normal	Normal		E	CO
1/2" CONN SS DC - EMT	76	11/22/20	66.24	C	20.00		52.99			8.00		40.27	6.08	Normal	Normal		E	CO
1/2" CONN SS STL - EMT	20	11/22/20	122.63	C	20.00		98.10			8.00		19.62	1.60	Normal	Normal		E	CO
1/2" COUPLING SS STL - EMT	10	11/22/20	162.72	C	20.00		130.18					13.02		Normal	No Labor		E	CO
1/2" 1-H STRAP - EMT - STEEL	76	11/22/20	25.03	C	20.00		20.02					15.22	3.72	Normal	Normal		E	CO
1/2" CONDUIT SUPPORT FOR ROD OR F	33	7/12/20	26.44	C	10.00		23.80			4.60		7.85	1.52	Normal	Normal		E	ERI
1/2" FLEX - ALUMINUM	231	9/6/200	55.72	C	20.00		44.58			3.00		102.98	6.93	Normal	Normal		E	CO
1/2" CONN FLEX DC SQUEEZE STRAIGH	66	11/29/20	176.00	C	20.00		140.80			10.00		92.93	6.60	Normal	Normal		E	BRI
#12 THHN BLACK	2,706	1/24/20	210.64	M	30.00		147.45			5.15		399.00	13.94	Normal	Normal		E	CO
#14/2C CABLE MC - STL ARMOR	2,461	6/12/20	982.00	M	30.00		687.40			13.50		1,691.69	33.22	Normal	Normal		E	CO
3/8" CONN AC-90 / MC DC SS	708	6/12/20	43.46	C	20.00		34.77			6.00		246.17	42.48	Normal	Normal		E	CO
3/8" CABLE SUPPORT FOR ROD OR FLNC	281	6/21/20	29.90	C	10.00		26.91			3.80		75.62	10.68	Normal	Normal		E	ERI
WIRE CONN YEL (#18 TO #12)	1,647	1/17/20	10.42	C	10.00		9.38			6.00		154.49	98.82	Normal	Normal		E	3M
WIRE CONN RED (#16 TO #10)	30	1/17/20	13.63	C	10.00		12.27			7.00		3.68	2.10	Normal	Normal		E	3M
4x 1 1/2" OCT BOX COMB KO	65	2/22/20	362.55	C	50.00		181.28			22.00		117.83	14.30	Normal	Normal		E	RA
4x 1 1/2" SQ BOX COMB KO	38	12/27/20	523.13	C	50.00		261.57			23.00		99.40	8.74	Normal	Normal		E	RA
4" SQ 1G PLSTR RING 5/8" RISE	38	12/27/20	333.89	C	50.00		166.95			2.50		63.44	0.95	Normal	Normal		E	RA
#8 TO #10x 7/8 PLAS ANCHOR (3/16)	80	10/18/20	5.33	C	20.00		4.26			6.00		3.41	4.80	Normal	Normal		E	PO
#12 SINGLE JACK CHAIN	270	7/12/20	403.90	M	10.00		363.51			5.00		98.15	1.35	Normal	Normal		E	ERI
#11 S-HOOK	180	6/21/20	11.16	C	10.00		10.04			5.00		18.07	9.00	Normal	Normal		E	ERI
3/16x3 TGL BOLT SPRING WING P/H	56	10/18/20	51.98	C	20.00		41.58			6.00		23.28	3.36	Normal	Normal		E	PO
#10x 1 P/H SELF-TAP SCREW	146	8/3/200	8.48	C	20.00		6.78			3.00		9.90	4.38	Normal	Normal		E	SCI
#8x 3/4 WAFER HEAD SELF-TAP STUD S	190	5/23/20	3.44	C	20.00		2.75			2.60		5.23	4.94	Normal	Normal		E	AC
HAMMER-ON CLIP TO 1/2" FLANGE W/ 1/4	90	7/12/20	59.43	C	10.00		53.49			6.00		48.14	5.40	Normal	Normal		E	ERI
TOP MNT FLUOR FIXTURE HNGR	90	7/12/20	48.64	C	10.00		43.78			3.00		39.40	2.70	Normal	Normal		E	ERI
T-BAR CLIP FOR STRAIGHT LIP LAY-IN FIX	1,124	7/12/20	31.66	C	10.00		28.49			5.00		320.23	56.20	Normal	Normal		E	ERI
24" SPAN T-BAR HNGR FOR 1 1/2" SQ BO	33	6/21/20	509.69	C	10.00		458.72			15.00		151.38	4.95	Normal	Normal		E	ERI
CEILING CLIP W/ 27mm STD NAIL - STL/C	673	11/25/20		C						9.00			60.57	Normal	Normal		E	HIL
Totals	18,597											4,007.71	944.06					0.00

Figure 33

55. Save your estimate.

56. Close Accubid when you have finished the Fixture Takeoff.