CM 352 – Electrical Construction Estimating

Accubid Activity #16
Accubid Office Building – 38 GROUNDING

Procedure
1. Start the program Accubid Pro 13 [Start, All Programs, Trimble, Classic 13, Accubid Pro 13]
2. Press the CAPS LOCK Key ON
3. From the Job Schedule Screen open the file, Accubid Office Building.
4. If not already selected, select the Takeoff tab at the bottom of the screen.
5. Make sure that the **L100 v8 us neca imp** is the currently selected database. If not, switch to it by clicking on the Database menu and choosing the Select command.
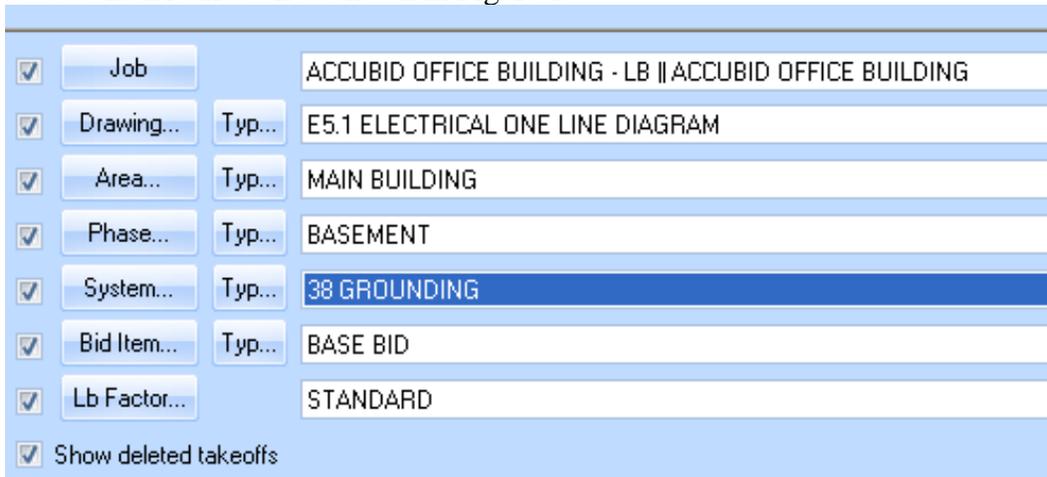6. Set the Breakdown as shown in Figure 1:

Figure 1

7. In the takeoff area, choose Takeoff: FEEDER CABLE
Double click on:
[Line 8] GROUNDING
[Line 9] #2/0 BARE-CU

8. In the Create/Modify Takeoff Description window change the Takeoff Description as shown in Figure 2 and Click OK.
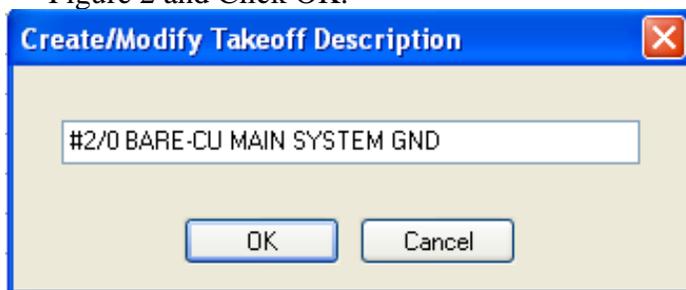

Figure 2

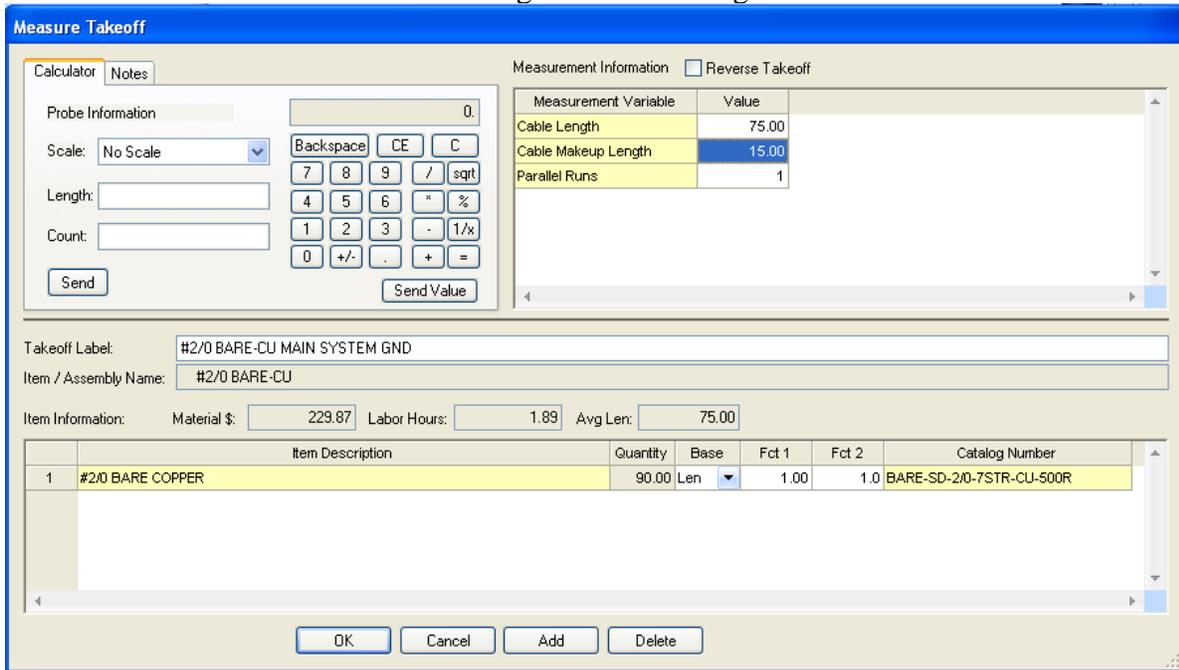9. In the Measure takeoff window change the Cable Length to 75.00 and click OK.

Figure 3

10. From the Takeoff: ITEM DATABASE continue adding the items and quantities as shown in Figure 4 (Traverse Codes are shown next to each item). Add the CONNECT OWNER'S 500 KVA from Takeoff: TEMPORARY ITEMS.

Figure 4

11. Right click in the Item Description list in the Audit Trail Description area and click Finish. The takeoff displays in the Audit Trail Description as shown in Figure 5.
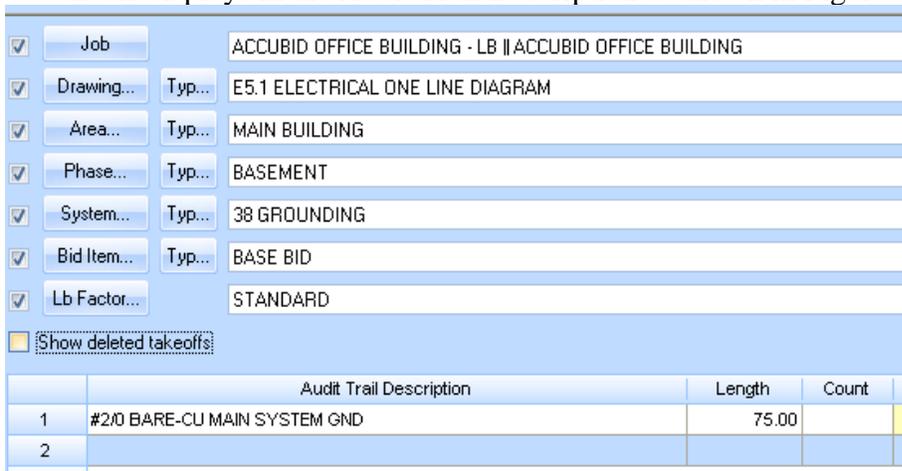

Figure 5

12. In the takeoff area, choose Takeoff: FEEDER CABLE
Double click on:
[Line 8] GROUNDING
[Line 3] #6 BARE-CU

13. In the Create/Modify Takeoff Description window change the Takeoff Description as shown in Figure 6 and Click OK.
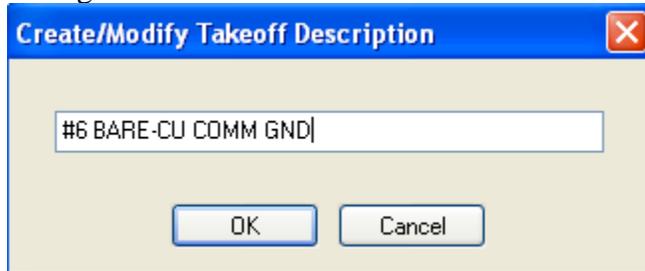

Figure 6

14. In the Measure Takeoff window change the Cable Length to 20.00 and Cable Makeup Length to 5.00 as shown in Figure 7 and click OK.
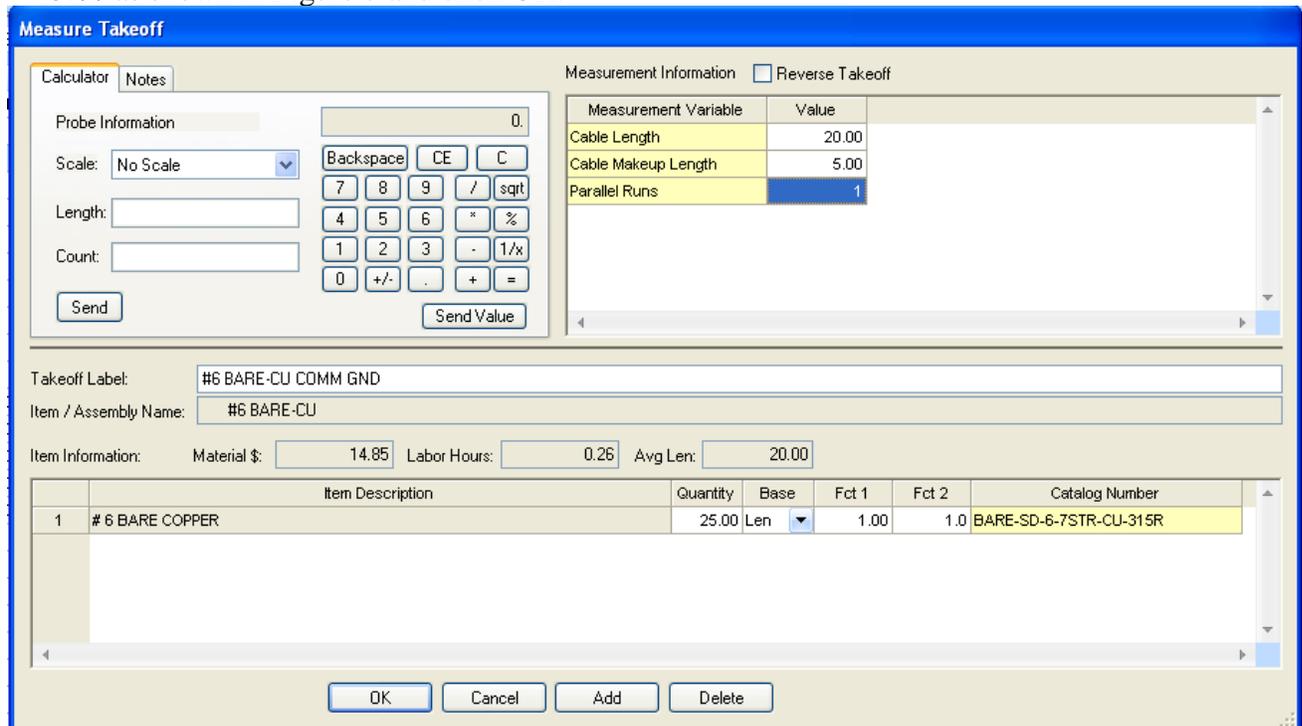

Figure 7

15. Add the items shown in Figure 8 to the Item Description list takeoff. When completed, right click on the Item Description area and click Finish.

	Item Description	Quantity
1	# 6 BARE COPPER	25.00
2	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	3.00
3	#10x 1 P/H SELF-TAP SCREW	3.00
4	1-H CABLE STRAP	3.00
5	COMM GROUND BUS COMPLETE	1.00
6		

ITEM DATABASE
8, 2, 10, 2
8, 5, 2, 22
4, 6, 2, 1
TEMPORARY ITEMS

Figure 8

3

16. Set the Breakdown as shown in Figure 9.

Figure 9

17. Choose Takeoff: FEEDER CABLE
Double click on:
[Line 8] GROUNDING
[Line 9] #2/0 BARE-CU

18. In the Create/Modify Takeoff Description change the description as shown in Figure 10 and click OK.

Figure 10

19. In the Measure Takeoff window make the changes shown in Figure 11 and click OK.

Figure 11

4

20. From the Takeoff: FEEDER CABLE FITTINGS
Double click:
[Line 15] 1-H CABLE STRAP/ FASTEN (L - 3')

21. In the Measure Takeoff window change the Length to 65 and click OK.

Figure 12

22. Add the TEMPORARY ITEM, SUB ER GROUND BUS COMPLETE (Count = 4) to the takeoff.
    Right click in the Item Description and click Finish.

Figure 13

23. Choose Takeoff: FEEDER CABLE
Double click on:
[Line 8] GROUNDNG
[Line 3] #6 BARE-CU

24. Change the Takeoff Description to: #6 BARE-CU COMM RISER GND and click OK.

Figure 14

5

25. In the Measure Takeoff window make the changes shown in Figure 15 and click OK.

Figure 15

26. From the Takeoff: FEEDER CABLE FITTINGS
Double click:
[Line 15] 1-H CABLE STRAP/ FASTEN (L - 3')

27. In the Measure Takeoff window change the Length to 65 and click OK.
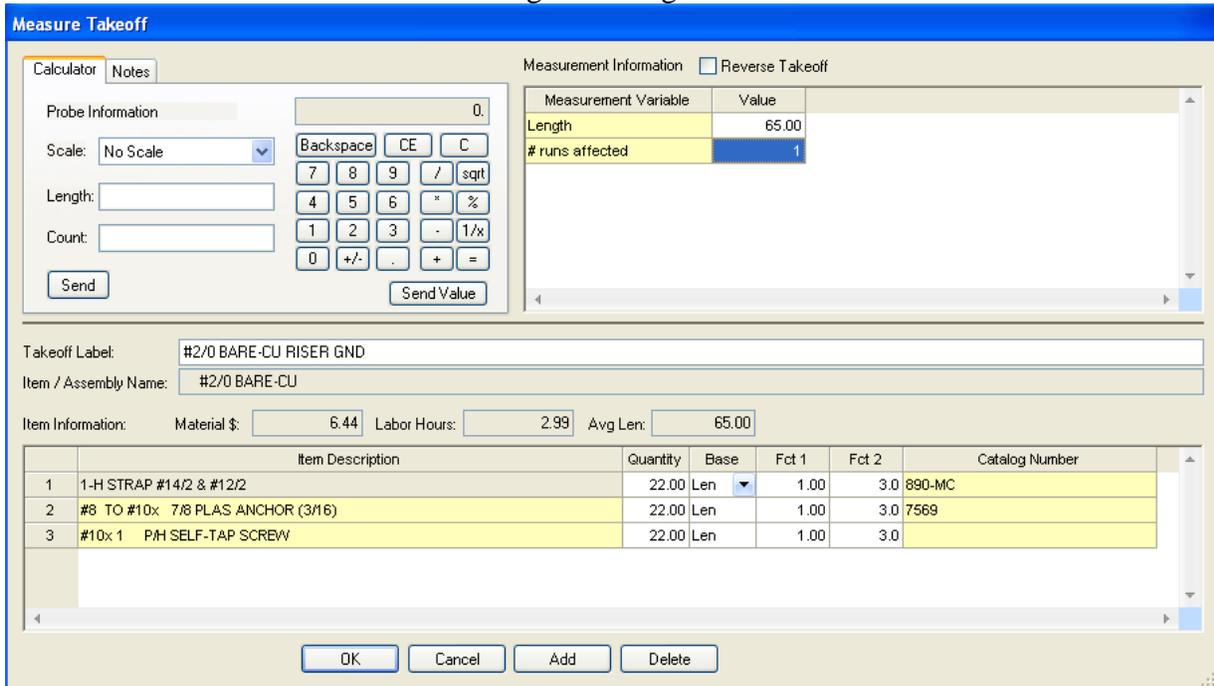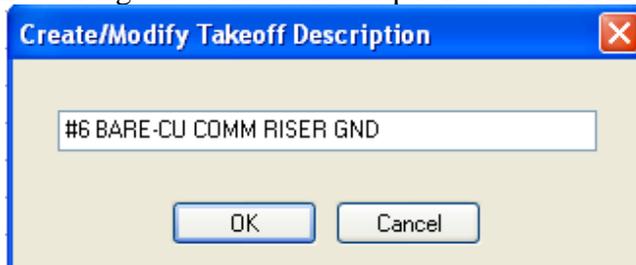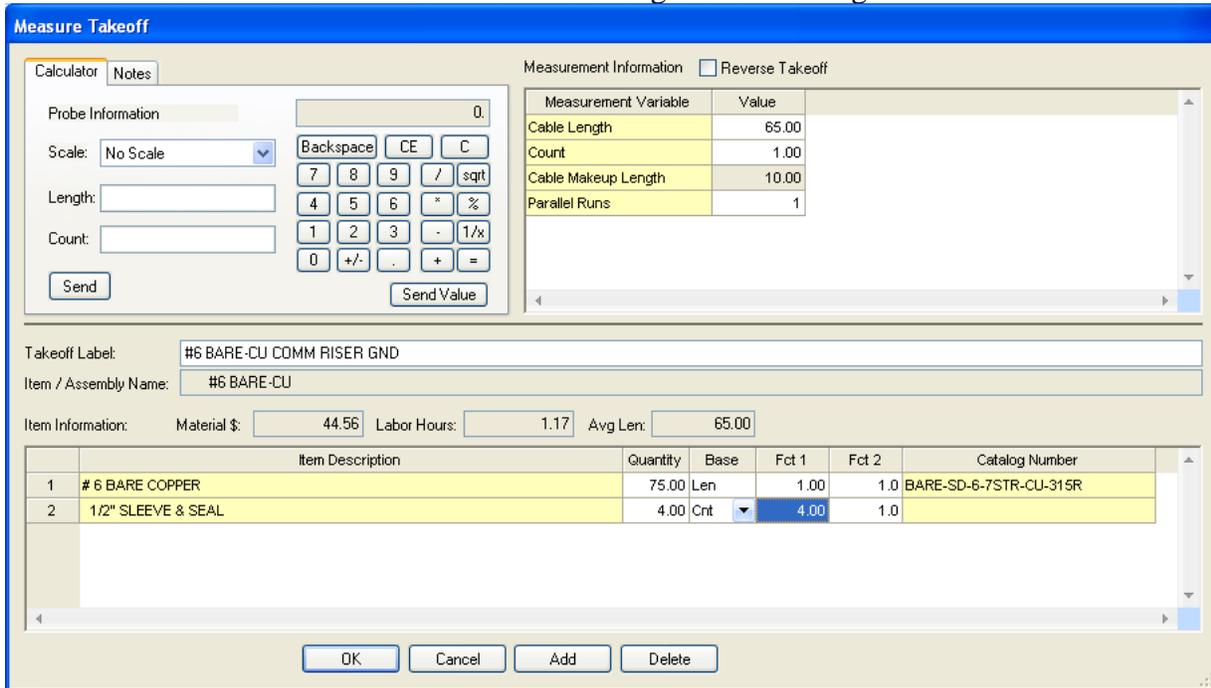
28. Add the TEMPORARY ITEM, COMM GROUND BUS COMPLETE (Count = 4) to the takeoff.
    Right click in the Item Description and click Finish.

	Item Description	Quantity
1	# 6 BARE COPPER	75.00
2	1/2" SLEEVE & SEAL	4.00
3	1-H STRAP #14/2 & #12/2	22.00
4	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	22.00
5	#10x 1 P/H SELF-TAP SCREW	22.00
6	COMM GROUND BUS COMPLETE	4.00
7		

Figure 16

29. Change the Breakdown as shown in Figure 17.

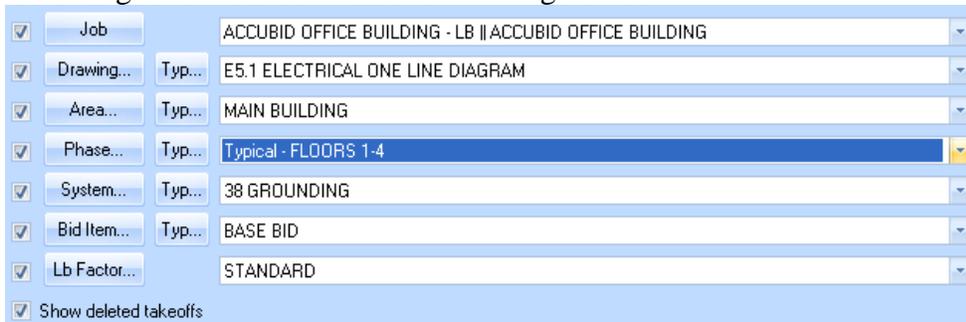|			
✓	Job		ACCUBID OFFICE BUILDING - LB || ACCUBID OFFICE BUILDING
✓	Drawing...	Typ...	E5.1 ELECTRICAL ONE LINE DIAGRAM
✓	Area...	Typ...	MAIN BUILDING
✓	Phase...	Typ...	Typical - FLOORS 1-4
✓	System...	Typ...	38 GROUNDING
✓	Bid Item...	Typ...	BASE BID
✓	Lb Factor...		STANDARD

✓ Show deleted takeoffs

Figure 17

30. Using Takeoff: FEEDER CABLE
Double Click on:
[Line 8] GROUNDING
[Line 3] #6 BARE-CU

31. Edit the Takeoff Description as shown in Figure 18 and click OK.

Figure 18
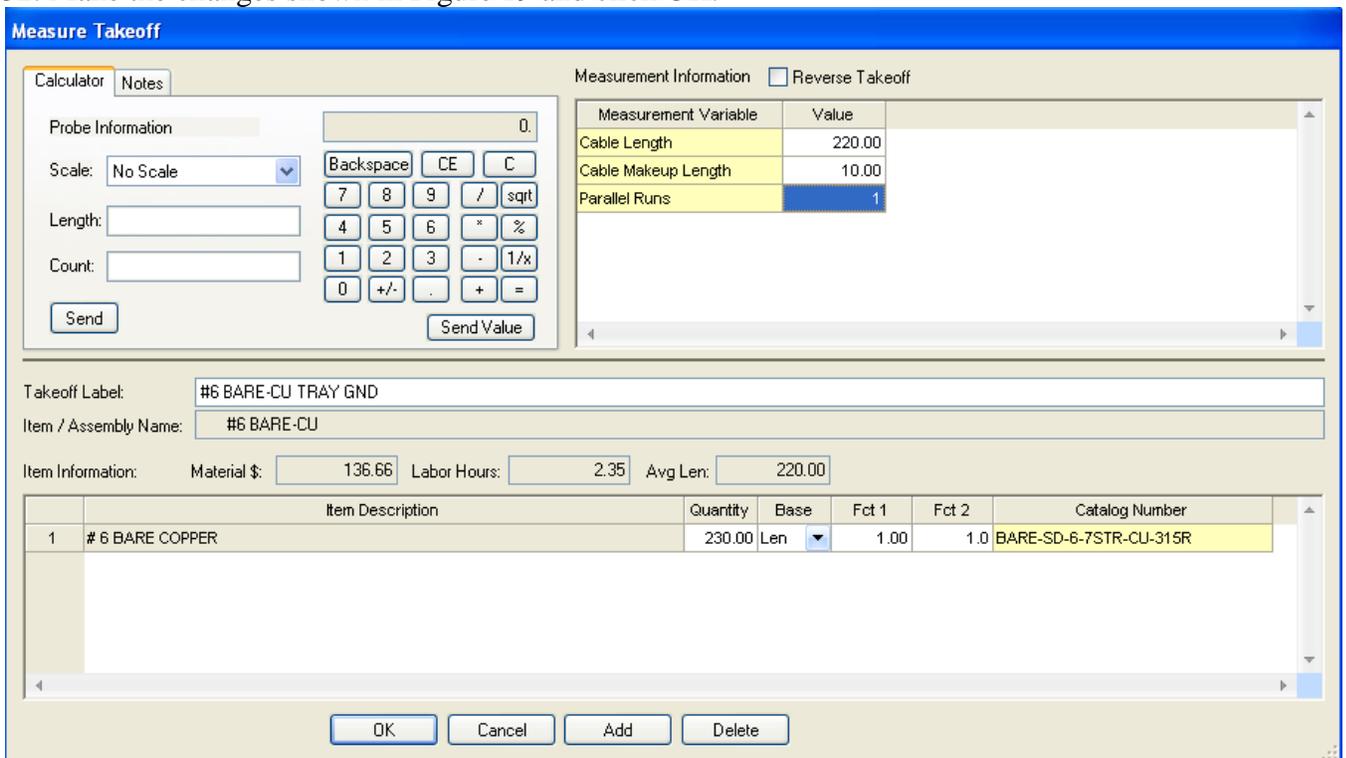
32. Make the changes shown in Figure 19 and click OK.

Figure 19

33. Using the ITEM DATABASE add the items and quantities as shown in Figure 20, and right click then click on Finish to complete the takeoff.

Figure 20

34. Using Takeoff: FEEDER CABLE
Double Click on:
[Line 8] GROUNDING
[Line 3] #6 BARE-CU

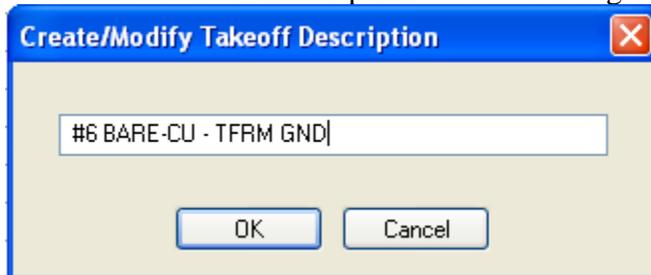35. Edit the Takeoff Description as shown in Figure 21 and click OK.

Figure 21

36. Make the changes shown in Figure 22 and click OK.
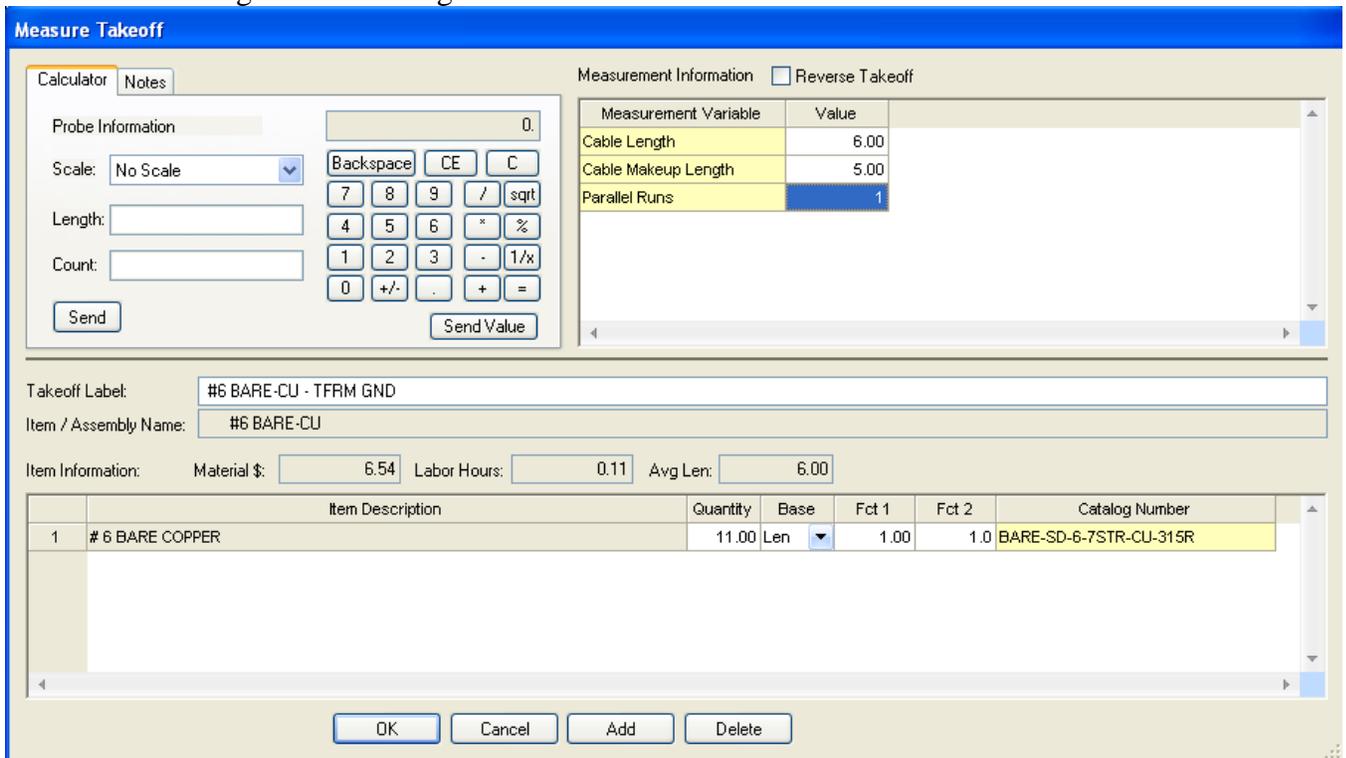

Figure 22

37. From the Takeoff: FEEDER CABLE FITTINGS
Double click:
[Line 15] 1-H CABLE STRAP/ FASTEN (L - 3')

38. In the Measure Takeoff window change the Length to 6 and click OK.
39. Add the ITEM - 3/8" CONN AC-90 / MC DC SS [4, 2, 1, 1] Quantity = 1 to the takeoff.
40. Right Click in the Item Description and click Finish.
41. Using a Green Highlighter color the MDB #2/0 GND and the TRMR #6 GND (TL1, TL2, TL3, & TL4) shown on E5.1 Electrical One-Line Diagram.
42. Save your estimate.