# CM 352 – Electrical Construction Estimating

# Accubid Activity #17 Accubid Office Building – TEMPORARY ASSEMBLIES

Temporary Assemblies are groups of related items identified by a single description. For example, a copper pipe assembly consists of pipe, couplings, and hangers. A conduit assembly consists of conduit, connectors, couplings, straps, and possibly wire. When you take off an assembly, you are actually taking off several items at the same time. This can greatly increase the speed and accuracy of your takeoffs. Unlike common assemblies, temporary assemblies are not saved in the materials database, they are only saved with the current job.

9

You can create a temporary assembly or modify existing ones. You can only modify a single temporary assembly by adding to or deleting items from the temporary assembly. You can, however, delete the entire temporary assembly if it has not been taken off.

You can insert or reorder items within the temporary assembly list by right clicking over an existing entry and selecting the appropriate menu option. If a temporary assembly has not been taken off, you can delete it by right clicking over the assembly and selecting Delete.



Figure 1

The left side of the Create/Modify Temporary Assembly window is where you can select the items to add to the Temporary Assembly. The right side is the Name and contents of the temporary assembly.

# 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. Choose Takeoff: TEMPORARY ASSEMBLIES from the Takeoff list.
- 7. Double click on the first blank line below the Temporary Assembly heading. The Create/Modify Temporary Assembly dialog appears.
- 8. In the Create/Modify Temporary Assembly make the changes as shown in Figure 2.
- 1 Name: CONNECT OWNER'S 500 KVA
- 2 Using Selection: TEMPORARY ITEM add the Temp Item CONNECT OWNER'S 500 KVA
- 2 Using Selection: ITEM DATABASE add the items shown in Figure 2 (traverse codes are shown)
- 3 Change Fct 1 and Fct 2 as shown in Figure 2
- 4 Click OK



Figure 2

9. Using this procedure create the Temporary Assemblies shown on the next pages.

#### Name: 1/2" FLEX - ALUMINUM - NOTE 7, E3.1 Selection: Item Database × Item Database: Level 1 Туре . Item Description Base С 1 CONDUIT & FITTINGS 1 1/2" FLEX - ALUMINUM Cnt -С 2 WIRE 2 1/2" CONN FLEX DC SQUEEZE STRAIGHT Cnt С 3 CABLE 3 #12 THHN SOLID BLACK Cnt С 4 WIRE & CABLE ACCESSORIES 4 #12 WIRE POWER TERM Cnt С 5 BOXES & CABINETS 5 VMRE CONN YEL (#18 TO #12) Cnt 6 DUCTS & TRAYS С 6 4x 1 1/2" SQ BOX COMB KO Cnt С 7 GROUNDING 7 4" SQ BLANK COVER Cnt С FASTENERS & HANGERS #8x 3/4 WAFER HEAD SELF-TAP STUD SCREW - 12G 8 8 Cnt 9 9 С 10 WIRING & SYSTEM DEVICES 10 CONTROL DEVICES & ACCESSORIES С 11 11 С 12 DISTRIBUTION 12 13 MOTOR & EQUIPMENT CONNECTIONS С 13 FIXTURES & LAMPS С 14 14 С ELECTRIC HEATING 15 15 16 16 С 17 POLES / EXCAVATION / CORING 17 С 18 EQUIPMENT & TOOLS 18 TEMPORARY LIGHT & POWER С 19 19 С 20 DEMOLITION 20 21 MISC. С 21 22 22 23 23 24 24 25 25 26 26 27 27 28 28 ۰. ŀ-4 DB Find Delete Move Up Move Down Print Add

Figure 3

Fct 2

1.0

1.0

1.0 407-DC2

1.0 Y-BOX

1.0 SCW834

1.0 192

1.0 752

Fct 1

3.00

2.00

18.00

6.00

6.00

1.00

1.00

3.00

Catalog Number

1.0 THHN-12-BLK-SOL-CU-500S/R

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Cancel

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# Name: PROGRAMMABLE TIME CLOCK - LTG CO

Catalog Number

1.0 THHN-12-BLK-SOL-CU-500S/R

1.0 THHN-14-BLK-SOL-CU-500S/R

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Cancel

OK

Base

Cnt 🔽

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Print

Fct 1

1.00

4.00

4.00

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1.00

4.00

6.00

6.00

3.00

2.00

Fct 2

1.0

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1.0 7569

1.0 SAE10

	ttem Database: Level 1	Туре				ltem Descrip
1 0	CONDUIT & FITTINGS	С			1	PROGRAMMABLE TIME CLOCK A
2	MRE	С			2	#8 TO #10x 7/8 PLAS ANCHOR
3	CABLE	С			3	#10x 1 P/H SELF-TAP SCREW
4	MRE & CABLE ACCESSORIES	С			4	#10 FLAT WASHER - PLTD STL
5	BOXES & CABINETS	С	=		5	1/2" CONDUIT - EMT
6 1	DUCTS & TRAYS	c			6	1/2" CONNISSISTLI- EMT
7	GROUNDING	С			7	#12 THHN SOLID BLACK
8	FASTENERS & HANGERS	С			8	#14 THHN SOLID BLACK
9					9	#12 WIRE POWER TERM
10	MRING & SYSTEM DEVICES	С			10	#14 WIRE CONTROL TERM
11	CONTROL DEVICES & ACCESSORIES	С			11	
12	DISTRIBUTION	С			12	
13	MOTOR & EQUIPMENT CONNECTIONS	С			13	
14	FIXTURES & LAMPS	С			14	
15	ELECTRIC HEATING	С			15	
16					16	
17	POLES / EXCAVATION / CORING	С			17	
18	EQUIPMENT & TOOLS	С			18	
19	TEMPORARY LIGHT & POWER	С			19	
20	DEMOLITION	С			20	
21	MISC	С			21	
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Figure	4
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Name: 30A 3P LTG CONTACTORS - BSMT

	ltem Database: Level 1	Туре	-	
1	CONDUIT & FITTINGS	С		1
2	WRE	С		2
3	CABLE	С		3
4	WIRE & CABLE ACCESSORIES	С		4
5	BOXES & CABINETS	С	=	5
6	DUCTS & TRAYS	С		6
7	GROUNDING	С		7
8	FASTENERS & HANGERS	С		8
9				9
10	WIRING & SYSTEM DEVICES	С		10
11	CONTROL DEVICES & ACCESSORIES	С		11
12	DISTRIBUTION	С		12
13	MOTOR & EQUIPMENT CONNECTIONS	с		13
14	FIXTURES & LAMPS	с		14
15	ELECTRIC HEATING	с		15
16				16
17	POLES / EXCAVATION / CORING	с		17
18	EQUIPMENT & TOOLS	с		18
19	TEMPORARY LIGHT & POWER	с		19
20	DEMOLITION	с		20
21	MISC	с		21
22				22
23				23
24				24
25				25
26				26
27				27
28			-	28
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	Item Description	Base	Fct 1	Fct 2	Catalog Number	-
1	30A 3P 600V CONTACTOR - NEMA 1	Cnt 💌	2.00	1.0		
2	# 8 WIRE POWER TERM	Cnt	4.00	1.0		
3	#12 WIRE POWER TERM	Cnt	4.00	1.0		
4	#14 WIRE CONTROL TERM	Cnt	4.00	1.0		
5	WIRE CONN RED (#16 TO #10)	Cnt	5.00	1.0	R-BOX	
6	WIRE CONN GRY (#14 TO # 8)	Cnt	1.00	1.0	G-BOX	
7	#12 THHN BLACK	Cnt	33.00	1.0	THHN-12-BLK-19STR-CU-500S	
8	#10x 1 P/H SELF-TAP SCREW	Cnt	10.00	1.0		
9	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	Cnt	10.00	1.0	7569	
10	#10 FLAT WASHER - PLTD STL	Cnt	10.00	1.0	SAE10	
11	1/2" CONDUIT - EMT	Cnt	10.00	1.0		
12	1/2" COUPLING SS STL - EMT	Cnt		10.0		
13	1/2" CONN SS STL - EMT	Cnt	2.00	1.0		=
14	1/2" 1-H STRAP - EMT - STEEL	Cnt	2.00	1.0		
15	1/2" SLEEVE & SEAL	Cnt	1.00	1.0		
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Figure 5

#### Name: 30A 3P LTG CONTACTOR - 1ST FLOOR

	ttem Database: Level 1	Туре		*		ltem Descri
1	CONDUIT & FITTINGS	с С			1	30A 3P 600V CONTACTOR - NE
2	WIRE	С			2	#12 WIRE POWER TERM
3	CABLE	С			3	#14 WIRE CONTROL TERM
4	WIRE & CABLE ACCESSORIES	С			4	WIRE CONN RED (#16 TO #10)
5	BOXES & CABINETS	С		=	5	#12 THHN BLACK
6	DUCTS & TRAYS	С			6	#10x 1 P/H SELF-TAP SCREV
7	GROUNDING	с			7	#8 TO #10x 7/8 PLAS ANCHO
8	FASTENERS & HANGERS	с			8	#10 FLAT WASHER - PLTD STL
9					9	1/2" CONDUIT - EMT
10	WIRING & SYSTEM DEVICES	С			10	1/2" CONNISSISTL - EMT
11	CONTROL DEVICES & ACCESSORIES	с			11	1/2" 1-H STRAP - EMT - STEEL
12	DISTRIBUTION	с			12	
13	MOTOR & EQUIPMENT CONNECTIONS	с			13	
14	FIXTURES & LAMPS	с			14	
15	ELECTRIC HEATING	С			15	
16					16	
17	POLES / EXCAVATION / CORING	С			17	
18	EQUIPMENT & TOOLS	С			18	
19	TEMPORARY LIGHT & POWER	С			19	
20	DEMOLITION	С			20	
21	MISC	С			21	
22					22	
23					23	
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	Item Description	Ba	se	Fct 1	Fct 2	Catalog Number	4
	30A 3P 600V CONTACTOR - NEMA 1	Cnt		1.00	1.0		
2	#12 WIRE POWER TERM	Cnt		3.00	1.0		
;	#14 WIRE CONTROL TERM	Cnt		2.00	1.0		
	VMRE CONN RED (#16 TO #10)	Cnt		2.00	1.0	R-BOX	
	#12 THHN BLACK	Cnt		33.00	1.0	THHN-12-BLK-19STR-CU-500S	
	#10x 1 P/H SELF-TAP SCREW	Cnt		6.00	1.0		
	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	Cnt		6.00	1.0	7569	
	#10 FLAT WASHER - PLTD STL	Cnt		6.00	1.0	SAE10	
	1/2" CONDUIT - EMT	Cnt		10.00	1.0		
)	1/2" CONNISSISTE - EMT	Cnt		2.00	1.0		
1	1/2" 1-H STRAP - EMT - STEEL	Cnt		2.00	1.0		
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OK

Cancel

Figure 6

When completed the following should display in the Takeoff: TEMPORARY ASSSEMBLIES list.

Takeoff:	TEMPORARY ASSEMBLIES	
	Temporary Assembly	
1	CONNECT OWNER'S 500 KVA	
2	1/2" FLEX - ALUMINUM - NOTE 7, E3.1	
3	PROGRAMMABLE TIME CLOCK - LTG CONTROL	
4	30A 3P LTG CONTACTORS - BSMT	
5	30A 3P LTG CONTACTOR - 1ST FLOOR	
6		

Figure 7

10. Save your estimate.