

WHY THIS PROGRAM WAS DEVELOPED

Having completed the programming for the Double Click software, now comes the task of writing some meaningful documentation. Writing a user's manual is not what you would call fun. If you sometimes get bored reading this manual, just imagine how I felt writing it.

Before describing how this program works, I would like to take the time to cover some brief history about estimating and computer systems. This should help you understand how this program was designed for you, the contractor.

HISTORY OF ESTIMATING

Electrical contractors have been asked to give firm quotations for electrical work for as long as I can remember. The standard method of estimating has been to count every piece of material required to complete a project, and list those items on a pricing sheet. Once the contractor has listed all the materials, he would then obtain material costs for each item and list them on his pricing sheets. Next he would assign a labor unit to each material item and list that unit on the pricing sheet. Then, using a calculator or adding machine, he would extend the totals and forward those totals to a recapitulation (recap) sheet where overhead, profit, and other job costs would be entered.

This method of estimating has been the standard of the industry for over sixty (60) years, and is still the most widely used method today.

HOW MANUFACTURERS USE COMPUTERS

In the 1950's and 60's large manufacturers of electrical equipment invested thousands of dollars in computer hardware and software to automate their manufacturing process. Because these computer systems could only deal with numbers, the manufacturers would assign a part number to each and every piece of material.

HOW DISTRIBUTORS USE COMPUTERS

In the 1970's and 80's electrical wholesale houses began installing computers to automate their operations. Because wholesale houses purchased and resold material from many different manufacturers, a universal numbering system was developed. This numbering system assigned a number to each material item, regardless of the manufacturer.

This universal numbering system is of great value to the manufacturers and distributors; however, its value to a contractor is somewhat limited. Let us look at an example of the numbering system. A 4" Square Box with 1/2" KOs, 1 1/2" deep may have as many as 47 different numbers depending on who is the manufacturer. The distributor needs a number for each part so his computer can keep track of inventory and automatically reorder as necessary. The contractor on the other hand could care less who the manufacturer is, and would require only one part number or description in his computer estimating system.

COMPUTERS FOR CONTRACTORS

In the 1970's a new industry was born. This industry was called systems houses. Systems houses were companies that bought computer hardware and wrote custom programs for various industries. These companies would then sell hardware and software packaged together in a turnkey system.

The first turnkey systems were for accounting and payroll. The software was written by accountants and programmers. These turn key systems cost around \$20,000. Today you can buy accounting software for your personal computer for around \$300.

As competition among systems houses increased, their products became more specialized. New systems were developed adding job costing and estimating to the accounting packages. These new features (or modules as they were called) were after thoughts, and were somewhat less than user friendly.

SYSTEMS FOR ELECTRICAL CONTRACTORS

The 1980's saw the introduction of wide spread use of the personal computer. With the reduced cost of computer equipment, new companies emerged that could now address a larger market. Specialized systems were developed for electrical contractors. Many of these systems were put together by former electrical contractors and addressed the needs of the industry.

These new firms would write estimating software, purchase accounting software, and interface these packages with pricing software used by the electrical wholesale industry. They would then package this software with computer hardware and sell it to electrical contractors. These packaged systems sold for around \$16,000.

In a six month period during 1986 I saw fifty-four (54) companies advertising estimating software packages for electrical contractors. In 1995 only six (6) of these companies were still in business. Of the six (6) remaining companies in 1995, only three (3) remain today.

MICROSOFT'S OPERATING SYSTEM (DOS)

The first IBM PC's ran at 5 MZ and used DOS (Disk Operating System) to control how the computer operated. The DOS operating system is a non-graphical system which does not support the use of a mouse. During the late 80's and early 90's electrical estimating programs were written for use in DOS.

WINDOWS

In 1995 Microsoft introduced it's first graphic user interface (GUI) operating system called Windows 95. Since this new operating system supports the use of a mouse, electrical contractors are now demanding estimating programs with graphic user interfaces.

GRAPHIC USER INTERFACE (WINDOWS)

The simplicity of point and click mouse control is a tremendous improvement in the user interface.

IF IT'S NOT BROKEN DON'T FIX IT

Remember when digital wrist watches first came to market. They had a red colored crystal and you had to push a button to activate the LED display. With these new watches, it took two (2) hands to read the time and you better be standing in the shade. Over the years electric wrist watches have improved. Today these watches can be read by using one hand, and the display is back to the tried and proven "little hand - big hand".

Over the past fifty (50) years the standard estimating method of pricing & recap sheets has served our industry well. Therefore, I have been puzzled as to why companies publishing estimating software want to reinvent the wheel. The first time I saw a demonstration of an estimating software package the guy doing the demo said, "Just type in the part number for a 4" Square Box, and presto, up pops the price and labor unit". "That's neat", I said. "But how do I find the number for a 4" Square Box?" He said, "Turn to Section 7 in the user's manual." I turned to Section 7 which contained 154 pages of part numbers. So much for presto.

Most of the estimating programs I have reviewed force the estimator to learn a totally new way of estimating. Additionally, the estimator is forced to read a large user's manual to become familiar with this new way of estimating. Sometimes it's faster to estimate the job by hand, rather than go through all the set up functions in these complex computer programs.

STICKING WITH THE BEST

In the early 1980's I thought to myself, how great it would be if someone would develop an estimating system that did not require the users to learn a new way of thinking. This estimating system would display standard pricing sheets, and the user would enter information in familiar places. The program would instantly perform all extensions, and any single change would be reflected in the final price on the recap sheet.

In 1992 we shipped a DOS estimating program call Estimator 386. Since that time thousands of electrical contractors have used our programs. In 1994 we changed the name of the program to Estimator 2000 and added a 23,000 part database called Pricing & Labor Software and Material List Module.

In April of 1996 we started development of the Windows based Double Click estimating program. Programming in the Windows environment is much more time consuming than programming in DOS. This explains why there are so few Windows based estimating programs. It has been a long road developing this program and we are proud to be shipping this product.

KISS (KEEP IT SIMPLE STUPID)

When I began writing the Double Click program, my goal was to create a simple user friendly program. One that would be easy to use and quick to learn. I did not want to teach the user a new way of estimating; rather, I wanted the computer to display familiar forms that would need little or no explanation.

We designed Double Click to take advantage of the easy use of pulldown menus. Unlike other estimating programs which require the user to scroll through never ending lists of materials with Double Click you simply select material from pulldown menus.

What you see is what you get. In Double Click you can view or work with any form while estimating the cost of the job. When your estimate is printed it looks the same as the display on the screen. This may sound simple, but it is not. Most estimating programs do not offer this feature.

LISTENING TO OUR CUSTOMERS

Customers first started using our estimating software in 1987. Since that time we have offered FREE unlimited telephone support for our products. The word FREE is very important because the only way we can continue to offer FREE support is to write trouble free and simple to use programs. Most other estimating programs charge a yearly support fee.

Double Click incorporates the features and functions of our DOS based programs. The features and functions were developed over 13 years by listening to our customers requests. Our policy is: if enough customers request a program change we will change it.

The three most requested changes from our customers over the past three years are:

1. Provide a Windows based version of our software.
 2. Add additional pricing sheets to the program.
 3. Include tagging of multiple items when selecting material.
 4. Provide a tiered bonding rate worksheet.
- All of these changes are included with the new Double Click program.

HOW THIS PROGRAM WORKS

Before we get into the actual operation of the estimating program, it is important to understand how the various forms (or worksheets) interface with each other. Below is a list of the worksheets available within this program:

- 1 - RECAP SHEET
- 18 - PRICING SHEETS
- 2 - ASSEMBLY TOTALS SHEETS
- 100 - ASSEMBLY MAKE-UP SHEETS
- 1 - BONDING COST WORKSHEET
- 1 - JOB COST WORKSHEET
- 1 - PERMIT CALCULATION SHEET
- 1 - LABOR COST WORKSHEET
- 1 - LIGHTING QUOTES SUMMARY
- 6 - LIGHTING VENDOR SHEETS
- 1 - POWER QUOTES SHEET
- 8 - MISCELLANEOUS QUOTES SHEETS
- 1 - GENERAL INFORMATION SHEET
- 1 - LIST OF BIDS
- 1 - LIST OF EXCLUSIONS
- 1 - SCOPE OF WORK
- 1 - TITLE PAGE
- 1 - PROPOSAL SHEET

Most forms (or worksheets) forward their totals to the recap sheet. Some worksheets forward totals directly to the recap sheet while others do the forwarding indirectly. On the next page is a flow chart graphically illustrating how these worksheets interact.

Please take a few minutes to review the flow chart on the next page before proceeding further.

RECAP SHEET (Quantity 1)

The recap sheet totals the information forwarded from the other worksheets. This is where you input direct job cost, overhead, profit, taxes, etc. You may also choose which pricing and assembly sheets you want to use.

PRICING SHEETS (Quantity 18)

The pricing sheets are where you enter the material description, price and labor units. These pricing sheets are identical to the standard pricing sheets used for over fifty (50) years in our industry. Totals are automatically forwarded to Recap Sheet.

ASSEMBLY TOTALS SHEETS (Quantity 2)

The assembly totals sheets are where you enter the number of assemblies required on a given estimate. If you wish to change an assembly, you must go to the appropriate make-up sheet. Totals are automatically forwarded to Recap Sheet.

MAKE-UP SHEETS (Quantity 100)

The make-up sheet is where you name the assembly and enter the material and labor required for one typical assembly. The total cost of this make-up sheet is forwarded to the appropriate line of the assembly totals sheet.

BONDING COST WORKSHEET (Quantity 1)

This is where you calculate the bonding cost. You may enter a flat percentage or a tiered bonding percentage. Totals are automatically forwarded to Recap Sheet.

JOB COST WORKSHEET (Quantity 1)

This is where you calculate the direct job cost associated with a particular estimate. Totals are automatically forwarded to Recap Sheet.

PERMIT CALCULATION SHEET (Quantity 1)

This is where you calculate the permit cost associated with a particular estimate. Totals are automatically forwarded to Job Cost Worksheet.

LABOR COST WORKSHEET (Quantity 1)

This is where you calculate your average labor rate. Totals are automatically forwarded to Recap Sheet.

LIGHTING QUOTES SUMMARY (Quantity 1)

This is where the summary of lighting quotes is displayed. The total price for each vendor appears on this sheet, and the lowest vendor price is forwarded to the recap sheet.

LIGHTING VENDOR SHEETS (Quantity 6)

This is where you enter the price quoted for each type of fixture. Totals are automatically forwarded to Lighting Quotes Summary.

POWER QUOTES SHEET (Quantity 1)

This is where you enter the lump sum quote from each power vendor. Totals are automatically forwarded to Recap Sheet.

MISCELLANEOUS QUOTES SHEETS (Quantity 8)

This is where you enter lump sum quotes for various items. Totals are automatically forwarded to Recap Sheet.

GENERAL INFORMATION SHEET (Quantity 1)

This is where you enter the name of the architect and engineer. You may also list the bid documents you have used for preparing your bid. This sheet does not forward information.

LIST OF BIDS (Quantity 1)

Here you list the bids you have given to various contractors. This sheet does not forward information.

LIST OF EXCLUSIONS (Quantity 1)

Here you list any exclusion to your bid. This sheet does not forward information.

SCOPE OF WORK (Quantity 1)

Here you list the scope of work included in your estimate. This sheet does not forward information.

TITLE PAGE (Quantity 1)

This is a blank page you may use for a cover page to your estimate. This sheet does not forward information.

PROPOSAL SHEET (Quantity 1)

This is a page you may use for a proposal page. This sheet does not forward information.

LOADING INSTRUCTION

It is important to understand that the installation of Double Click will create the following folders on your C: drive:

C:\EST
C:\PL
C:\MAT
C:\TPRICE
C:\UPRICE

These folders must be installed on your C: drive for the proper operation of Double Click.

**NOTE: IF YOU ALREADY HAVE FOLDERS BY THESE NAMES
YOU MUST RENAME YOUR EXISTING FOLDERS.**

1. Insert the CD in your CD Drive
2. After a few seconds the installation program will start.
3. Follow the instructions to complete your installation.
4. After installation is complete Click OK.

The installation program will place three (3) shortcuts on your desktop.



The EST shortcut will start the Estimating Program
The PL shortcut will start the Pricing & Labor Software
The MAT shortcut will start the Material List Module

These shortcuts will also be placed in the START/PROGRAMS menu.



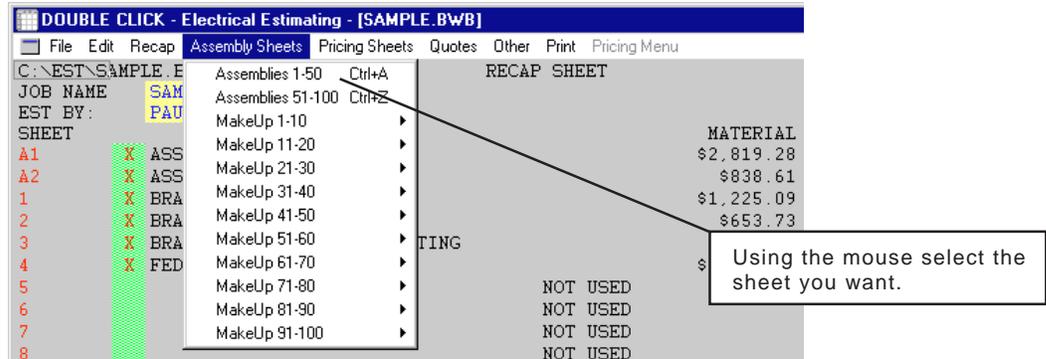
In this Sample Estimate we have used both Assembly Pricing and Material Line Item methods of estimating. Most estimates will use one estimating method, however, you may on occasion want to use both methods.

The first line of our Recap displays the Material and Labor totals forwarded from Assembly Totals #1 - #50.

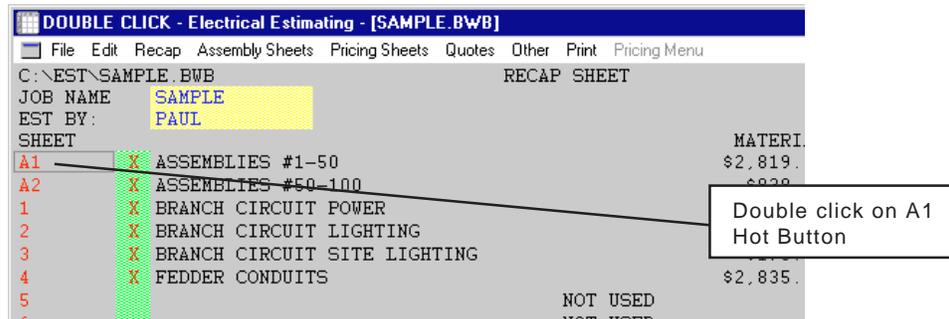
STEP 6. We are now going to access the Assembly totals #1 - #50.

There are several ways to navigate in Double Click.

Method #1 - Use the pulldown menu to select worksheet.



Method #2 - Double click on the red A1



NOTE: Anytime you see a Hot Button (red text) on the screen you may double click on the red text to activate that worksheet.

Method #3 - You may also use one of the Quick Keys. In this case hold down the CTRL key while pressing the A key.

For a complete list of CTRL keys see the Quick Keys card in the back of your binder.

After selecting Assemblies 1-50 your screen will display the assembly information. There are a total of 50 assembly items on this worksheet. To display the lower portion of the sheet press the pagedown key or use the scroll bar.

DOUBLE CLICK - Electrical Estimating - [SAMPLE.BWB]

File Edit Recap Assembly Sheets Pricing Sheets Quotes Other Print Pricing Menu

RECAP ASSEMBLY PRICE SHEET #1 DATE 9-15-98
 JOB NAME SAMPLE EST # 123
 ASSEMBLIES 1-50 EST. BY PAUL

#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	SW 1G 1-1P	1	\$9.50 E	\$9.50	1.33 E	1.33
2	SW 1G 1-3W	2	\$12.28 E	\$24.57	1.56 E	3.12
3	SW 1G 1-4W	3	\$22.72 E	\$68.15	1.69 E	5.08
4			E		E	
5	SW 2G 2-1P	4	\$13.56 E	\$54.26	1.76 E	7.03
6	SW 2G 1-1P 1-3W	5	\$16.40 E	\$82.02	2.01 E	10.05
7	SW 2G 1-1P 1-4W	6	\$26.89 E	\$161.35	2.17 E	13.03
8	SW 2G 2-3W	7	\$18.24 E	\$127.67	2.14 E	15.01
9	SW 2G 1-3W 1-4W	8	\$32.26 E	\$258.05	2.43 E	19.40
10			E		E	
11	SW 3G 3-1P	9	\$29.18 E	\$262.65	2.08 E	18.73
12	SW 3G 2-1P 1-3W	10	\$32.02 E	\$320.24	2.33 E	23.33
13	SW 3G 1-1P 2-3W	11	\$38.14 E	\$419.54	2.65 E	29.16
14	SW 3G 2-1P 1-4W	12	\$42.51 E	\$510.14	2.50 E	29.94
15	SW 3G 3-3W	13	\$40.09 E	\$521.13	2.84 E	36.91
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	
21			E		E	
22			E		E	
23			E		E	
24			E		E	
25			E		E	
26			E		E	

Assembly Price Sheet #1 is now displayed. The first assembly is a 1-gang 1-pole switch. To access the assembly MakeUp Sheet #1 double click on the #1

READY 9/7/98 1:16 PM P

STEP 7. Double click on #1 to display MakeUp #1

DOUBLE CLICK - Electrical Estimating - [SAMPLE.BWB]

File Edit Conduit Fittings Hangers Fasteners Boxes Wireway Wire Devices Power Defaults Main Menu

ASSEMBLY SHEET ASSEMBLY MAKEUP SHEET #1 DATE 9-15-98
 DESCRIPTION SW 1G 1-1P EST. BY PAUL

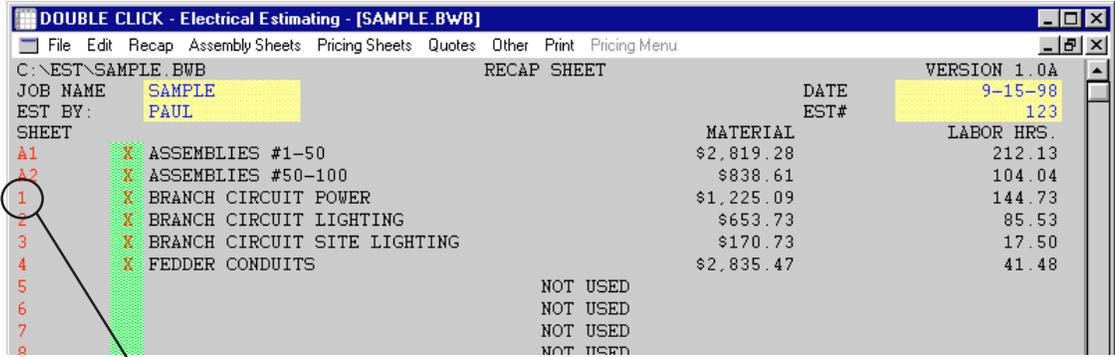
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"	17	\$23.77 C	\$4.04	2.92 C	0.50
2	EMT COUP SS DC 1/2"	1	\$22.63 C	\$0.23	4.50 C	0.04
3	EMT CONN SS DC 1/2"	2	\$21.30 C	\$0.43	4.50 C	0.09
4	EMT STRAP 1H 1/2"	3	\$12.90 C	\$0.39	4.50 C	0.14
5	SQ4 1.5D 1/2" KO	1	\$103.97 C	\$1.04	22.50 C	0.23
6	SQ4-RING 1G RAISE 1/2"	1	\$60.17 C	\$0.60	4.50 C	0.04
7	SW 1P 20A IV CS120-2I	1	\$162.96 C	\$1.63	18.00 C	0.18
8	PLATE SWITCH 1G IV	1	\$20.04 C	\$0.20	2.70 C	0.03
9	THHN CU SOLID #12	20	\$47.43 M	\$0.95	4.50 M	0.09
10			E		E	
11			E		E	
12			E		E	
13			E		E	
14			E		E	
15			E		E	
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	

NOTE: The total material cost and labor are forwarded to Assembly Price Sheet #1 as shown above.

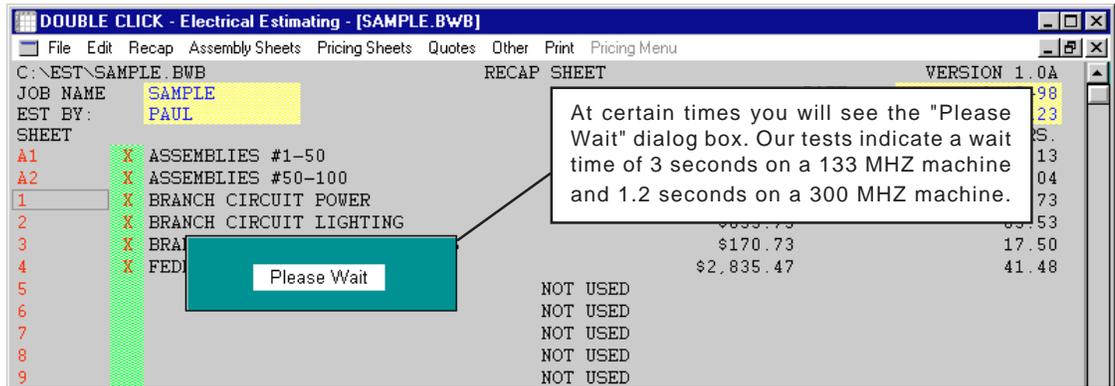
SUBTOTAL		\$9.50	1.33
MULTIPLIER (DEFAULT=1)	X	1.00	1.00
ASSEMBLY TOTAL		\$9.50	1.33

READY 9/7/98 2:27 PM P

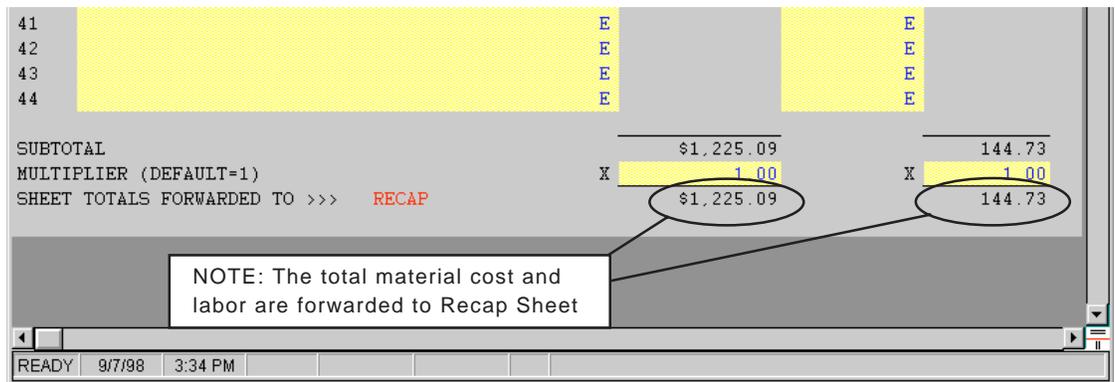
STEP 8. You may access any sheet at any time. Let us return to the Recap Sheet by using the CTRL + R keys.



STEP 9. The program has 18 Pricing Sheets per estimate and the Sample Estimate uses Pricing Sheets #1 - #4. To access a Pricing Sheet #1 double click on the pricing sheet number.



STEP 10. Once the pricing sheet is displayed, you may review the sample material items. The totals at the bottom of the pricing sheets are automatically forwarded to the Recap Sheet.



STEP 11. Now we are going to return to the recap sheet. We want to go to the quotes portion of the recap sheet. Hold the CTRL key down and press D.

QUOTATIONS			
LIGHTING	LIGHTING QUOTATION SUMMARY	\$1,328.70	30.00
POWER	POWER	\$1,075.00	24.00
QUOTE #1			
QUOTE #2			
QUOTE #3			
QUOTE #4			
QUOTE #5			
QUOTE #6			
QUOTE #7			
QUOTE #8			
QUOTED MATERIAL COST		\$2,403.70	

STEP 12. Now displayed is the middle portion of the Recap Sheet. This area of the recap lists the quotations. Let us access the Lighting Quotation Summary by double clicking on the Lighting (Hot Button).

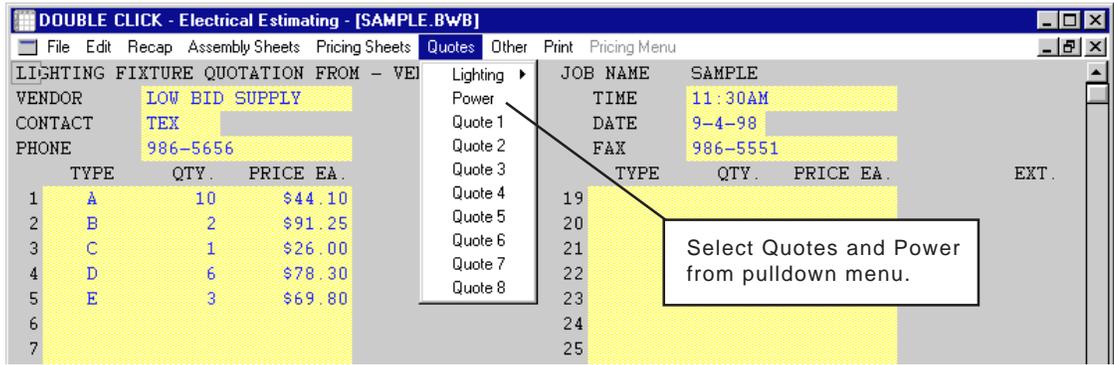
LIGHTING QUOTATION SUMMARY		JOB NAME	SAMPLE
RECAP			
	VENDOR NAME		PRICE
VENDOR #1	ABC SUPPLY		\$1,378.22
VENDOR #2	LOW BID SUPPLY		\$1,328.70
VENDOR #3			
VENDOR #4			
VENDOR #5			
VENDOR #6			
LOWEST PRICE FORWARDED TO		RECAP	\$1,328.70

There are two (2) lighting quotations shown. The second quotation from Low Bid Supply is the lowest quote and is automatically forwarded to the Recap Sheet.

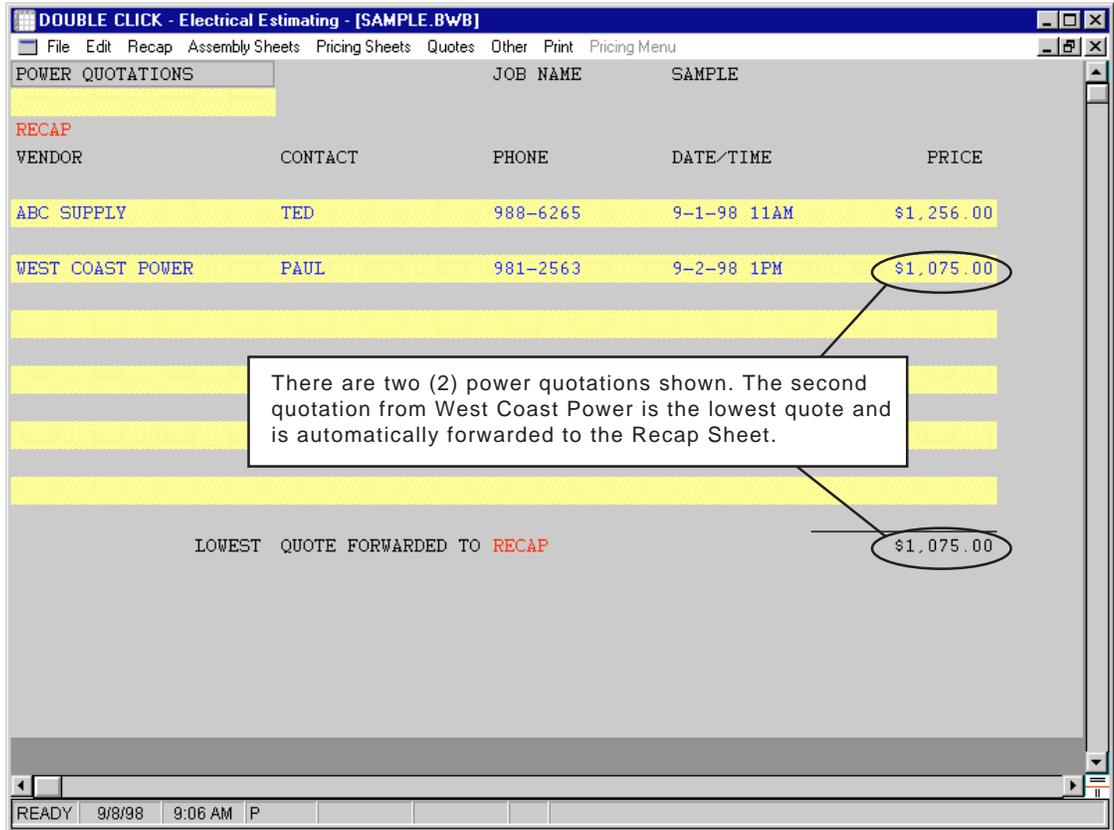
STEP 13. To view a breakdown of the Low Bid Supply double click on Vendor #2.

LIGHTING FIXTURE QUOTATION FROM - VENDOR #2				JOB NAME	SAMPLE		
VENDOR	LOW BID SUPPLY			TIME	11:30AM		
CONTACT	TEX			DATE	9-4-98		
PHONE	986-5656			FAX	986-5551		
TYPE	QTY.	PRICE EA.	EXT.	TYPE	QTY.	PRICE EA.	EXT.
1	A	10	\$44.10	19			
2	B	2	\$91.25	20			
3	C	1	\$26.00	21			
4	D	6	\$78.30	22			
5	E	3	\$69.80	23			
6				24			
7				25			
8				26			
9				27			
10				28			
11				29			
12				30			
13				31			
15				32			
15				33			
16				34			
17				35			
18				36			
VENDOR TOTAL FORWARDED TO LIGHTING QUOTATION >>>				SUMMARY			\$1,328.70

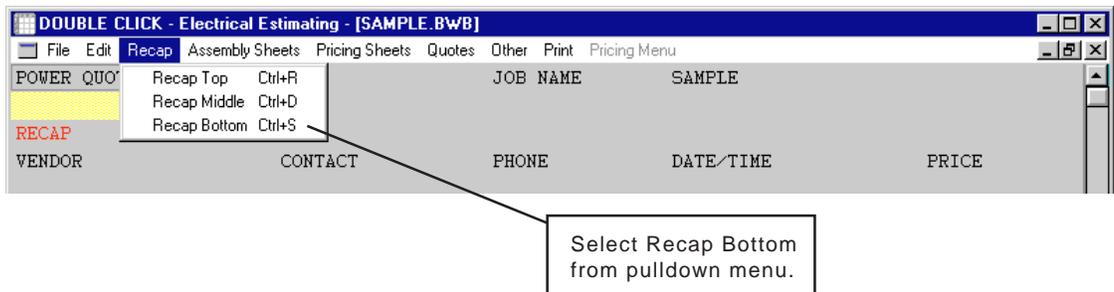
Displayed is the cost breakdown for this quote. The price is automatically forwarded to the Lighting Quotation Summary.



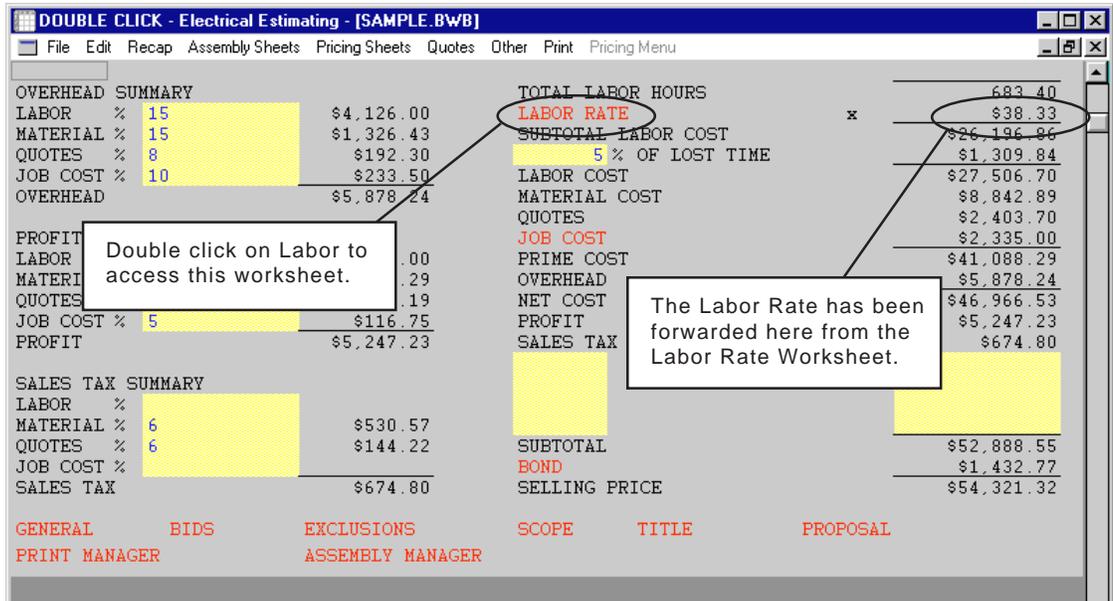
STEP 14. Rather than returning to the Recap Sheet lets jump to Power Quotations. Using the mouse, select Quotes and Power from the pulldown menu.



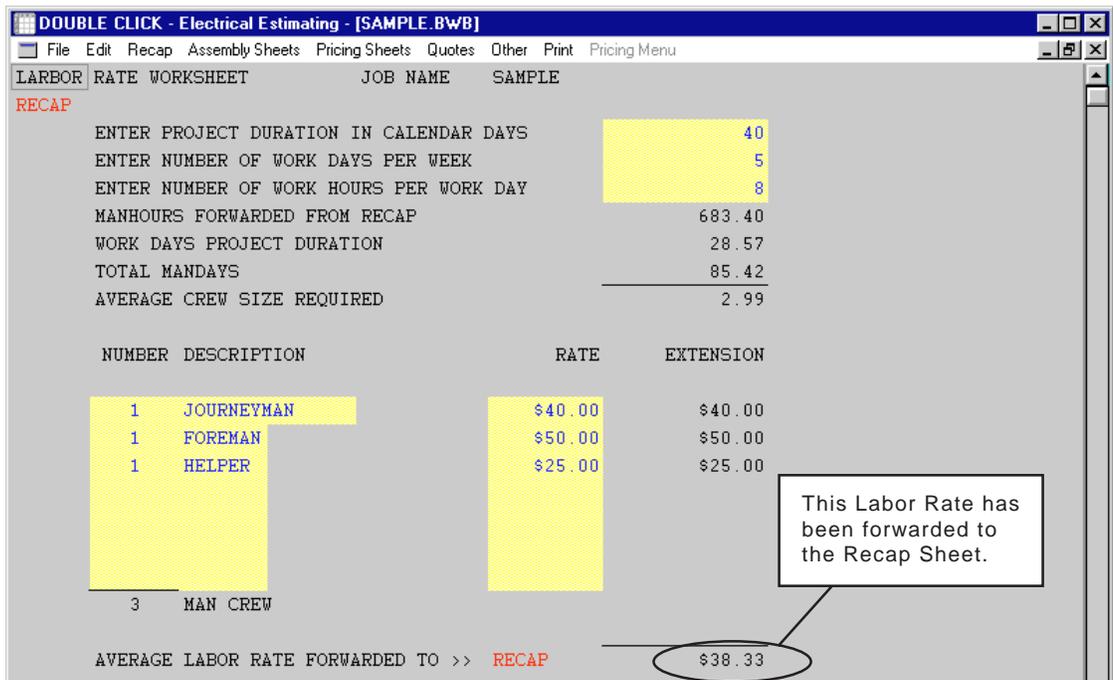
STEP 15. From the pulldown menu select Recap Bottom or use the CTRL + S keys.



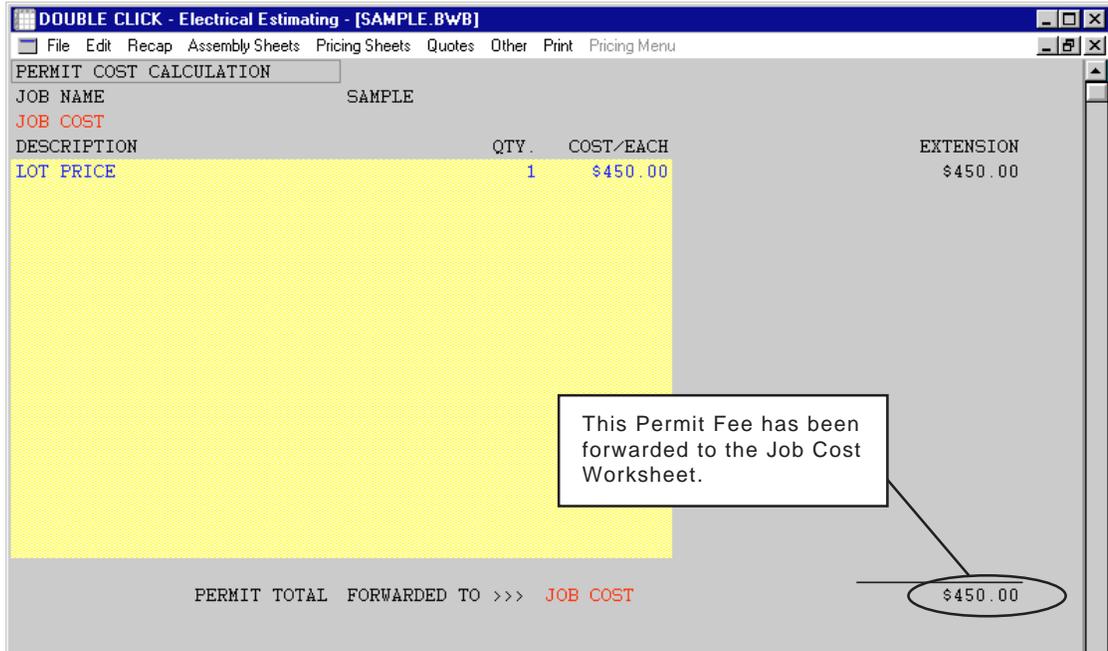
The lower portion of the Recap Sheet is now displayed.



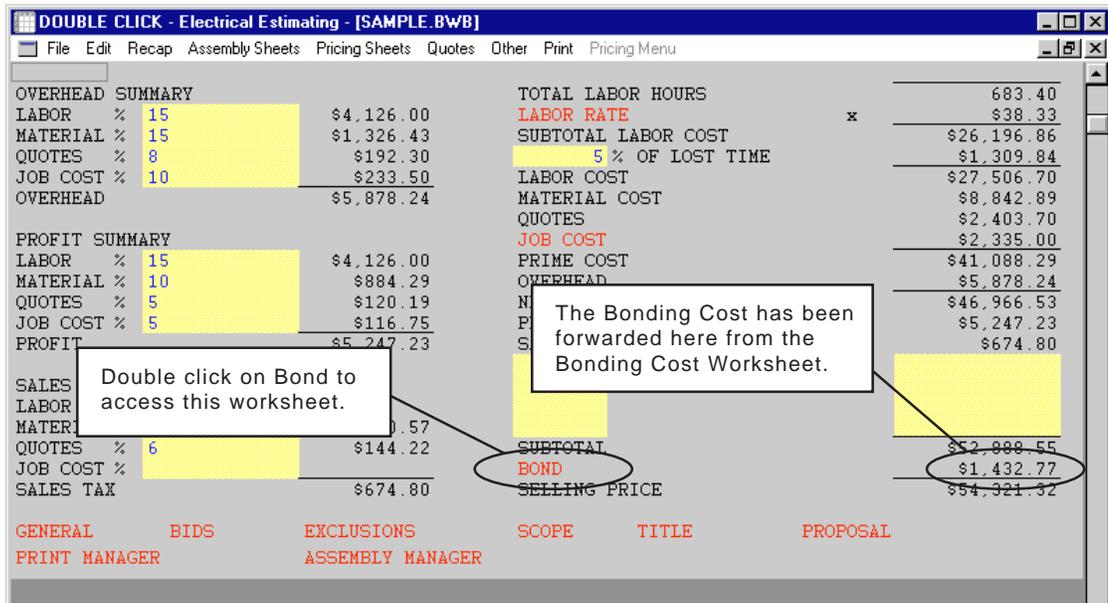
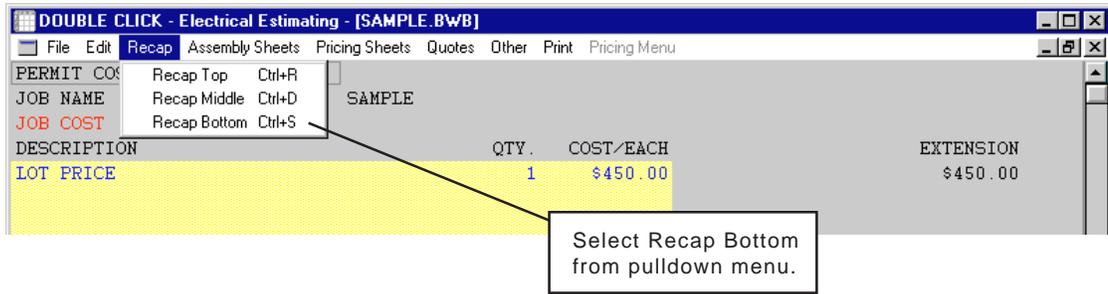
STEP 16. Double click on the Labor (Hot Button).



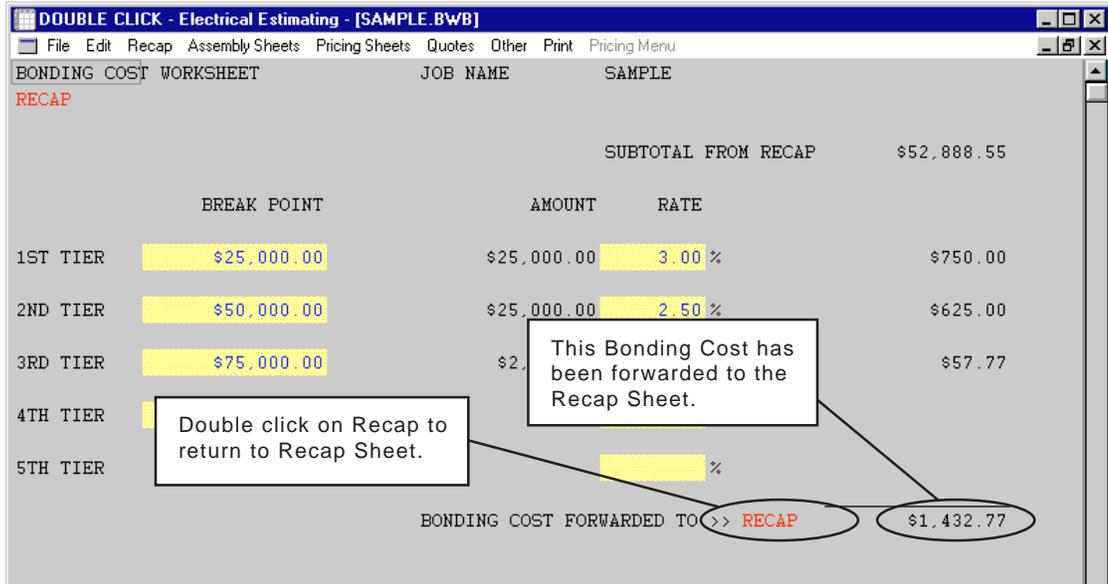
STEP 17. Return to the Recap Sheet by double clicking on the Recap (Hot Button).



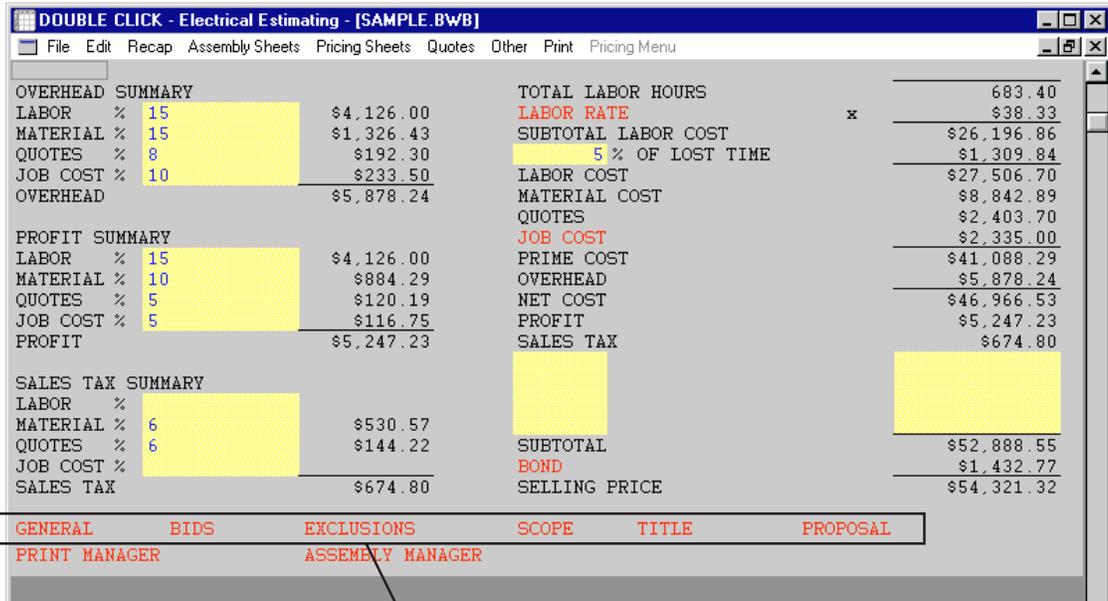
STEP 20. From the pulldown menu select Recap Bottom or use the CTRL + S keys.



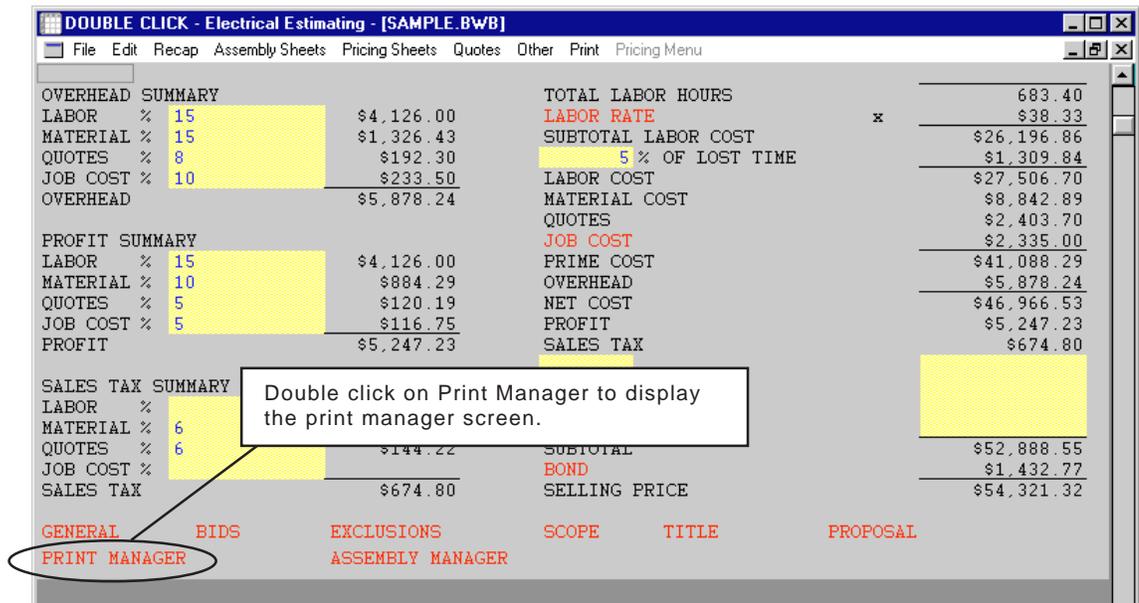
STEP 21. Double click on the Bond (Hot Button).



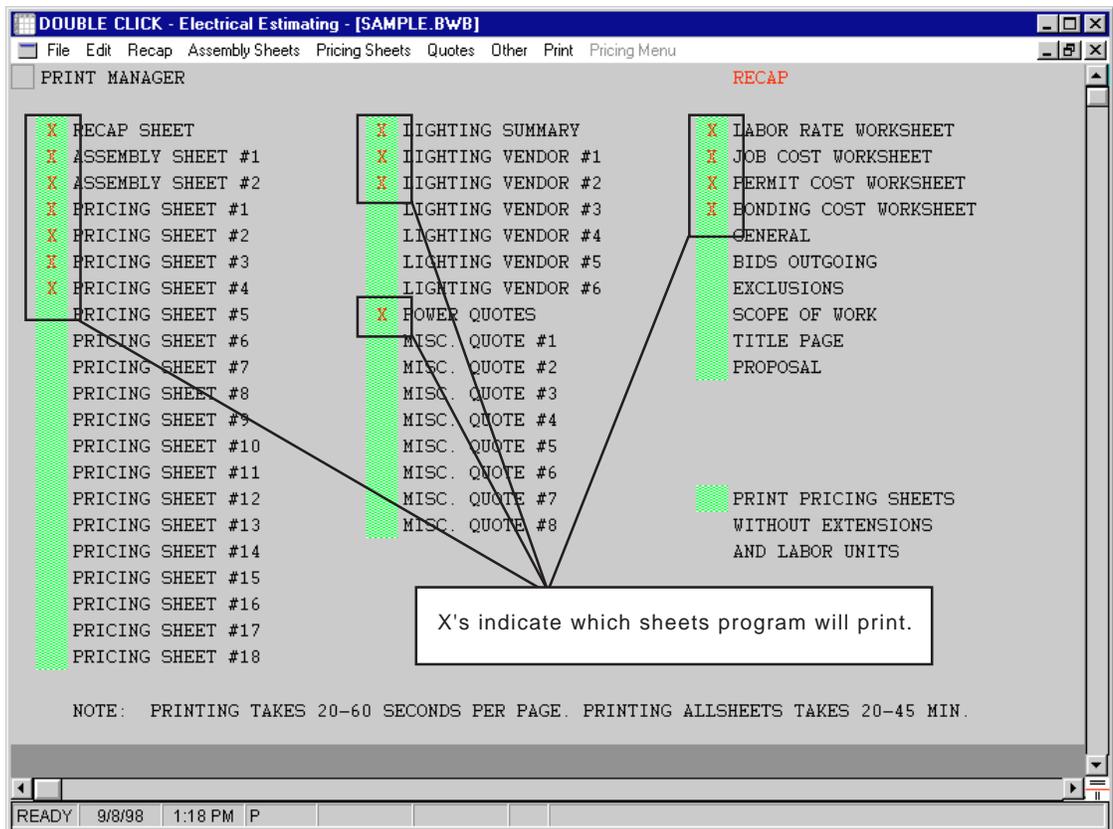
STEP 22. Double click on the Recap (Hot Button).



STEP 23. There are six (6) unlinked worksheets in the program; General, Bids, Exclusions, Scope, Title, and Proposal. If you wish you may visit these worksheets before proceeding. These worksheets are blank in the sample estimate. To display the worksheets simply double click on the Hot Buttons.

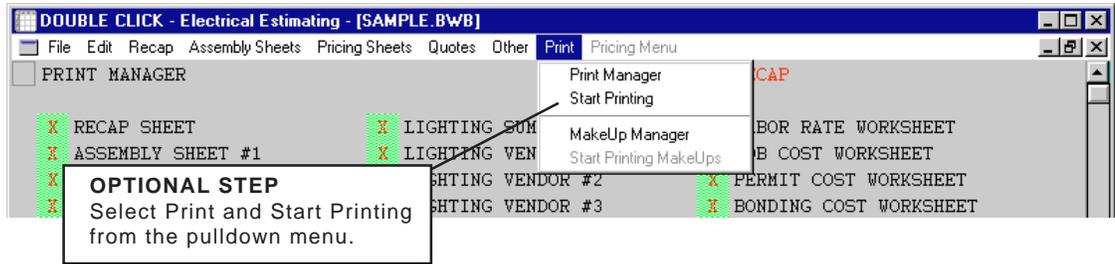


STEP 24. Double click on the Print Manager (Hot Button).



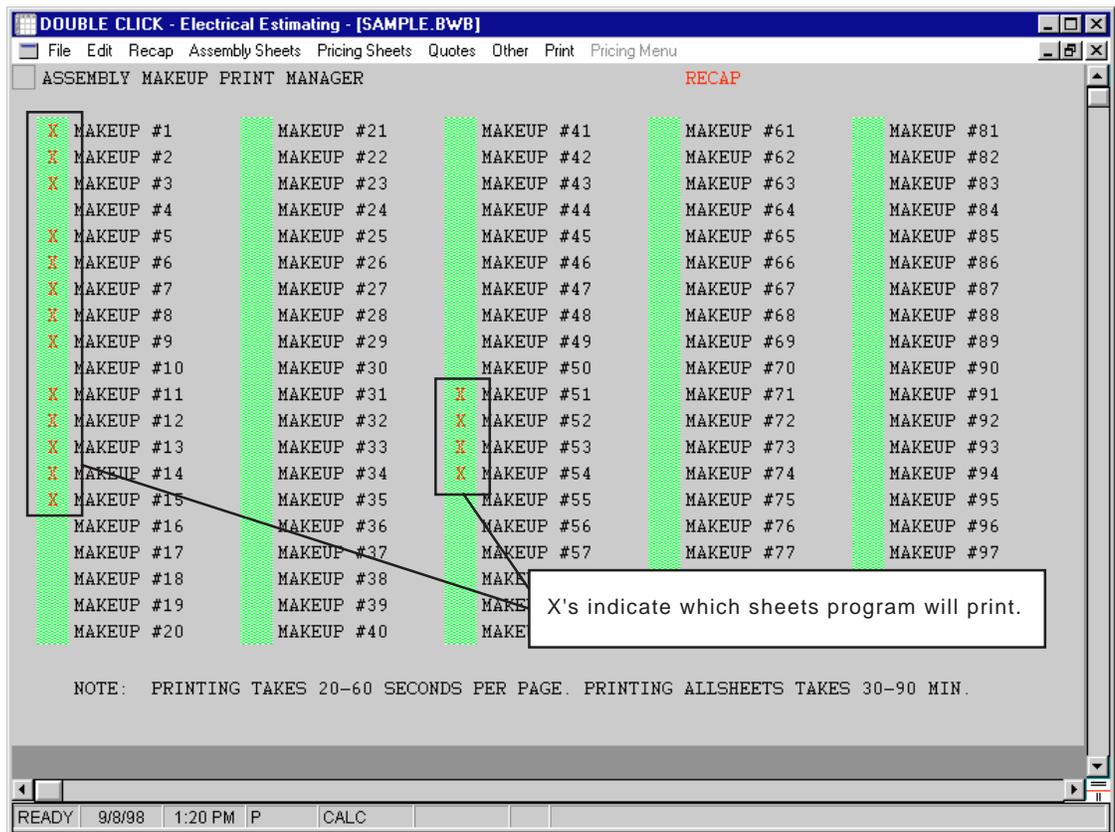
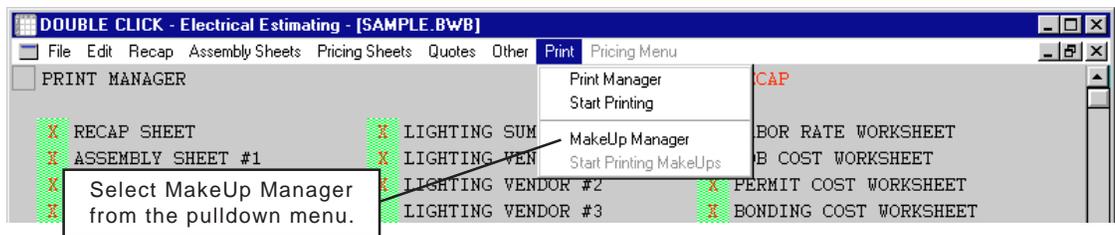
The sample estimate will print 15 worksheets.

STEP 25. OPTIONAL STEP - If you wish to print the sample estimate on your printer select Print and Start Printing from the pulldown menu.



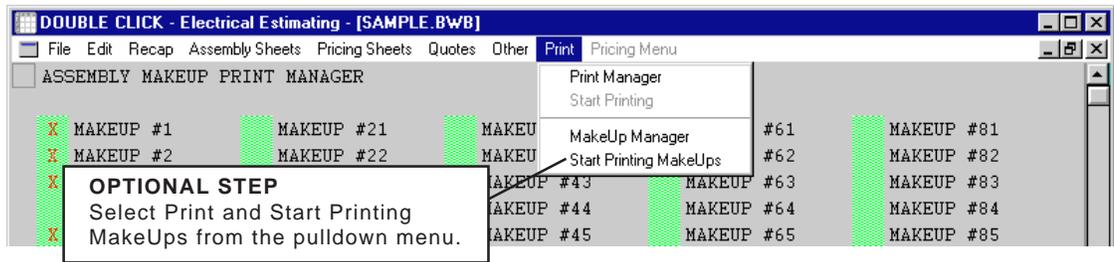
NOTE: If you choose not to print the sample estimate, a sample printout is included in Section 5 of this manual.

STEP 26. Select MakeUp Manager from the pulldown menu.



The sample estimate will print 17 Assembly MakeUp Sheets.

STEP 25. OPTIONAL STEP - If you wish to print the Assembly MakeUp Sheets from the sample estimate on your printer, select Print and Start Printing MakeUps from the pulldown menu.



NOTE: If you choose not to print the Assembly MakeUp Sheets from the sample estimate, a sample printout is included in Section 5 of this manual.

SAMPLE PRINTOUTS

Recap Sheet

C:\EST\SAMPLE.BWB		RECAP SHEET	
JOB NAME	SAMPLE	DATE	9-15-98
EST BY:	PAUL	EST#	123
SHEET		MATERIAL	LABOR HRS.
A1	X ASSEMBLIES #1-50	\$2,819.28	212.13
A2	X ASSEMBLIES #50-100	\$838.61	104.04
1	X BRANCH CIRCUIT POWER	\$1,225.09	144.73
2	X BRANCH CIRCUIT LIGHTING	\$653.73	85.53
3	X BRANCH CIRCUIT SITE LIGHTING	\$170.73	17.50
4	X FEDDER CONDUITS	\$2,835.47	41.48
5		NOT USED	
6		NOT USED	
7		NOT USED	
8		NOT USED	
9		NOT USED	
10		NOT USED	
11		NOT USED	
12		NOT USED	
13		NOT USED	
14		NOT USED	
15		NOT USED	
16		NOT USED	
17		NOT USED	
18		NOT USED	
	MISC. MATERIAL & LABOR	\$300.00	24.00
	PRICING SHEET MATERIAL TOTALS	\$8,842.89	
QUOTATIONS			
LIGHTING	LIGHTING QUOTATION SUMMARY	\$1,328.70	30.00
POWER	POWER	\$1,075.00	24.00
QUOTE #1			
QUOTE #2			
QUOTE #3			
QUOTE #4			
QUOTE #5			
QUOTE #6			
QUOTE #7			
QUOTE #8			
	QUOTED MATERIAL COST	\$2,403.70	
OVERHEAD SUMMARY		TOTAL LABOR HOURS	
LABOR % 15	\$4,126.00		683.40
MATERIAL % 15	\$1,326.43	LABOR RATE	x \$38.33
QUOTES % 8	\$192.30	SUBTOTAL LABOR COST	\$26,196.86
JOB COST % 10	\$233.50	5% OF LOST TIME	\$1,309.84
OVERHEAD	\$5,878.24	LABOR COST	\$27,506.70
		MATERIAL COST	\$8,842.89
		QUOTES	\$2,403.70
		JOB COST	\$2,335.00
PROFIT SUMMARY			PRIME COST
LABOR % 15	\$4,126.00		\$41,088.29
MATERIAL % 10	\$884.29	OVERHEAD	\$5,878.24
QUOTES % 5	\$120.19	NET COST	\$46,966.53
JOB COST % 5	\$116.75	PROFIT	\$5,247.23
PROFIT	\$5,247.23	SALES TAX	\$674.80
SALES TAX SUMMARY			
LABOR %			
MATERIAL % 6	\$530.57		
QUOTES % 6	\$144.22	SUBTOTAL	\$52,888.55
JOB COST %		BOND	\$1,432.77
SALES TAX	\$674.80	SELLING PRICE	\$54,321.32

SAMPLE PRINTOUTS

Assembly Price Sheet #1

JOB NAME		ASSEMBLY PRICE SHEET #1		DATE	9-15-98	
ASSEMBLIES 1-50		SAMPLE		EST #	123	
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	SW 1G 1-1P	1	\$9.50E	\$9.50	1.33E	1.33
2	SW 1G 1-3W	2	\$12.28E	\$24.57	1.56E	3.12
3	SW 1G 1-4W	3	\$22.72E	\$68.15	1.69E	5.08
4			E		E	
5	SW 2G 2-1P	4	\$13.56E	\$54.26	1.76E	7.03
6	SW 2G 1-1P 1-3W	5	\$16.40E	\$82.02	2.01E	10.05
7	SW 2G 1-1P 1-4W	6	\$26.89E	\$161.35	2.17E	13.03
8	SW 2G 2-3W	7	\$18.24E	\$127.67	2.14E	15.01
9	SW 2G 1-3W 1-4W	8	\$32.26E	\$258.05	2.43E	19.40
10			E		E	
11	SW 3G 3-1P	9	\$29.18E	\$262.65	2.08E	18.73
12	SW 3G 2-1P 1-3W	10	\$32.02E	\$320.24	2.33E	23.33
13	SW 3G 1-1P 2-3W	11	\$38.14E	\$419.54	2.65E	29.16
14	SW 3G 2-1P 1-4W	12	\$42.51E	\$510.14	2.50E	29.94
15	SW 3G 3-3W	13	\$40.09E	\$521.13	2.84E	36.91
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	
21			E		E	
22			E		E	
23			E		E	
24			E		E	
25			E		E	
26			E		E	
27			E		E	
28			E		E	
29			E		E	
30			E		E	
31			E		E	
32			E		E	
33			E		E	
34			E		E	
35			E		E	
36			E		E	
37			E		E	
38			E		E	
39			E		E	
40			E		E	
41			E		E	
42			E		E	
43			E		E	
44			E		E	
45			E		E	
46			E		E	
47			E		E	
48			E		E	
49			E		E	
50			E		E	
SHEET TOTALS FORWARDED TO RECAP				\$2,819.28	212.13	

SAMPLE PRINTOUTS

Assembly Price Sheet #2

JOB NAME		ASSEMBLY PRICE SHEET #2		DATE	9-15-98	
ASSEMBLIES 51-100		SAMPLE		EST #	123	
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
51	DUPLEX 1-15A	14	\$9.69E	\$135.79	1.55 E	21.70
52	DUPLEX 2-15A	15	\$10.18E	\$152.64	1.80 E	26.97
53	DUPLEX 1-20A	16	\$14.14E	\$226.23	1.55 E	24.80
54	DUPLEX 2-20A	17	\$19.06E	\$323.95	1.80 E	30.56
55			E		E	
56			E		E	
57			E		E	
58			E		E	
59			E		E	
60			E		E	
61			E		E	
62			E		E	
63			E		E	
64			E		E	
65			E		E	
66			E		E	
67			E		E	
68			E		E	
69			E		E	
70			E		E	
71			E		E	
72			E		E	
73			E		E	
74			E		E	
75			E		E	
76			E		E	
77			E		E	
78			E		E	
79			E		E	
80			E		E	
81			E		E	
82			E		E	
83			E		E	
84			E		E	
85			E		E	
86			E		E	
87			E		E	
88			E		E	
89			E		E	
90			E		E	
91			E		E	
92			E		E	
93			E		E	
94			E		E	
95			E		E	
96			E		E	
97			E		E	
98			E		E	
99			E		E	
100			E		E	
SHEET TOTALS FORWARDED TO RECAP				\$838.61	104.04	

SAMPLE PRINTOUTS

Pricing Sheet #1

JOB NAME	PRICING SHEET #1	DATE	9-15-98			
DESCRIPTION	SAMPLE	EST #	123			
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"	1,200	\$23.77C	\$285.26	2.92C	35.10
2	EMT 3/4"	450	\$40.37C	\$181.68	3.15C	14.18
3	EMT 1"	130	\$68.96C	\$89.65	3.60C	4.68
4	EMT COUP SS DC 1/2"	140	\$22.63C	\$31.68	4.50C	6.30
5	EMT COUP SS DC 3/4"	52	\$36.65C	\$19.06	5.40C	2.81
6	EMT COUP SS DC 1"	16	\$59.89C	\$9.58	7.20C	1.15
7	EMT CONN SS DC 1/2"	46	\$21.30C	\$9.79	4.50C	2.07
8	EMT CONN SS DC 3/4"	20	\$33.69C	\$6.74	5.40C	1.08
9	EMT CONN SS DC 1"	8	\$55.48C	\$4.44	6.30C	0.50
10	EMT STRAP 1H 1/2"	260	\$12.90C	\$33.54	4.50C	11.70
11	EMT STRAP 1H 3/4"	113	\$16.97C	\$19.18	5.40C	6.10
12	EMT STRAP 1H 1"	26	\$28.04C	\$7.29	7.20C	1.87
13	SQ4 1.5D COMBO	60	\$109.00C	\$65.40	22.50C	13.50
14	SQ411 2.1D 1" KO	4	\$277.80C	\$11.11	22.50C	0.90
15	SQ4 COVER BLANK	10	\$40.54C	\$4.05	4.50C	0.45
16	SQ411 COVER BLANK	4	\$72.34C	\$2.89	5.40C	0.22
17	SQ4-RING 1G RAISE 1/2"	50	\$60.17C	\$30.09	4.50C	2.25
18	DUPLEX 15A IV 5242-I	50	\$328.44C	\$164.22	22.50C	11.25
19	PLATE DUPLEX 1G IV	50	\$20.04C	\$10.02	2.70C	1.35
20	THHN CU SOLID #12	4,800	\$47.43M	\$227.66	4.50M	21.60
21	WIRENUT RED	210	\$5.59C	\$11.73	2.70C	5.67
22			E		E	
23			E		E	
24			E		E	
25			E		E	
26			E		E	
27			E		E	
28			E		E	
29			E		E	
30			E		E	
31			E		E	
32			E		E	
33			E		E	
34			E		E	
35			E		E	
36			E		E	
37			E		E	
38			E		E	
39			E		E	
40			E		E	
41			E		E	
42			E		E	
43			E		E	
44			E		E	
SUBTOTAL				\$1,225.09		144.73
MULTIPLIER (DEFAULT=1)				X 1.00	X	1.00
SHEET TOTALS FORWARDED TO >>> RECAP				\$1,225.09		144.73

SAMPLE PRINTOUTS

Pricing Sheet #2

JOB NAME		PRICING SHEET #2		DATE		9-15-98	
DESCRIPTION		SAMPLE		EST #		123	
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	EST. BY	PAUL
1	EMT 1/2"	800	\$23.77C	\$190.18	2.92C		23.40
2	EMT 3/4"	230	\$40.37C	\$92.86	3.15C		7.25
3	EMT 1"	60	\$68.96C	\$41.38	3.60C		2.16
4	EMT COUP SS DC 1/2"	96	\$22.63C	\$21.72	4.50C		4.32
5	EMT COUP SS DC 3/4"	28	\$36.65C	\$10.26	5.40C		1.51
6	EMT COUP SS DC 1"	8	\$59.89C	\$4.79	7.20C		0.58
7	EMT CONN SS DC 1/2"	54	\$21.30C	\$11.50	4.50C		2.43
8	EMT CONN SS DC 3/4"	16	\$33.69C	\$5.39	5.40C		0.86
9	EMT CONN SS DC 1"	2	\$55.48C	\$1.11	6.30C		0.13
10	EMT STRAP 1H 1/2"	200	\$12.90C	\$25.80	4.50C		9.00
11	EMT STRAP 1H 3/4"	58	\$16.97C	\$9.84	5.40C		3.13
12	EMT STRAP 1H 1"	15	\$28.04C	\$4.21	7.20C		1.08
13	SQ4 1.5D COMBO	22	\$109.00C	\$23.98	22.50C		4.95
14	SQ411 2.1D 1" KO	2	\$277.80C	\$5.56	22.50C		0.45
15	SQ4 COVER BLANK	10	\$40.54C	\$4.05	5.40C		0.45
16	SQ411 COVER BLANK	2	\$72.34C	\$1.45	5.40C		0.11
17	SQ4-RING 1G RAISE 1/2"	12	\$60.17C	\$7.22	4.50C		0.54
18	SW 1P 15A IV CS115-2I	12	\$106.62C	\$12.79	18.00C		2.16
19	PLATE SWITCH 1G IV	12	\$20.04C	\$2.40	2.70C		0.32
20	THHN CU SOLID #12	3,200	\$47.43M	\$151.78	4.50M		14.40
21	WIRENUT RED	160	\$5.59C	\$8.94	2.70C		4.32
22	FLEX STEEL 1/2"	40	\$22.20C	\$8.88	2.70C		1.08
23	FLEX CONN SQ DC 1/2"	20	\$38.18C	\$7.64	4.50C		0.90
24			E		E		
25			E		E		
26			E		E		
27			E		E		
28			E		E		
29			E		E		
30			E		E		
31			E		E		
32			E		E		
33			E		E		
34			E		E		
35			E		E		
36			E		E		
37			E		E		
38			E		E		
39			E		E		
40			E		E		
41			E		E		
42			E		E		
43			E		E		
44			E		E		
SUBTOTAL				\$653.73			85.53
MULTIPLIER (DEFAULT=1)				X 1.00		X	1.00
SHEET TOTALS FORWARDED TO >>> RECAP				\$653.73			85.53

SAMPLE PRINTOUTS

Pricing Sheet #3

JOB NAME	PRICING SHEET #3	DATE	9-15-98			
DESCRIPTION	SAMPLE	EST #	123			
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	PVC 40 3/4"	350	\$17.05C	\$59.66	2.34C	8.19
2	PVC 40 ELL 3/4"	14	\$84.04C	\$11.77	5.40C	0.76
3	PVC 40 COUP 3/4"	42	\$20.99C	\$8.81	2.70C	1.13
4	THHN CU SOLID #10	1,200	\$73.11M	\$87.73	5.40M	6.48
5	WIRENUT GRAY	26	\$10.60C	\$2.76	3.60C	0.94
6			E		E	
7			E		E	
8			E		E	
9			E		E	
10			E		E	
11			E		E	
12			E		E	
13			E		E	
14			E		E	
15			E		E	
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	
21			E		E	
22			E		E	
23			E		E	
24			E		E	
25			E		E	
26			E		E	
27			E		E	
28			E		E	
29			E		E	
30			E		E	
31			E		E	
32			E		E	
33			E		E	
34			E		E	
35			E		E	
36			E		E	
37			E		E	
38			E		E	
39			E		E	
40			E		E	
41			E		E	
42			E		E	
43			E		E	
44			E		E	
SUBTOTAL				\$170.73		17.50
MULTIPLIER (DEFAULT=1)				X 1.00	X	1.00
SHEET TOTALS FORWARDED TO >>> RECAP				\$170.73		17.50

SAMPLE PRINTOUTS

Pricing Sheet #4

JOB NAME	PRICING SHEET #4	DATE	9-15-98			
DESCRIPTION	SAMPLE	EST #	123			
	FEDDER CONDUITS	EST. BY	PAUL			
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	GRC 2"	60	\$369.11C	\$221.46	9.00C	5.40
2	GRC 3"	120	\$963.45C	\$1,156.14	12.60C	15.12
3	GRC ELL 2"	2	\$886.55C	\$17.73	63.00C	1.26
4	GRC ELL 3"	3	\$2,946.91C	\$88.41	112.50C	3.38
5	GRC COUP 2"	6	\$207.67C	\$12.46	13.50C	0.81
6	GRC COUP 3"	10	\$785.84C	\$78.58	22.50C	2.25
7	LOCKNUT 2"	4	\$58.66C	\$2.35	8.10C	0.32
8	LOCKNUT 3"	4	\$227.18C	\$9.08	13.50C	0.54
9	BUSHING PLASTIC 2"	2	\$75.17C	\$1.50	9.00C	0.18
10	BUSHING PLASTIC 3"	2	\$217.51C	\$4.35	13.50C	0.27
11	THHN CU STRANDED 3/0	240	\$1,305.15M	\$313.24	15.30M	3.67
12	THHN CU STRANDED 300	400	\$2,325.39M	\$930.16	20.70M	8.28
13			E		E	
14			E		E	
15			E		E	
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	
21			E		E	
22			E		E	
23			E		E	
24			E		E	
25			E		E	
26			E		E	
27			E		E	
28			E		E	
29			E		E	
30			E		E	
31			E		E	
32			E		E	
33			E		E	
34			E		E	
35			E		E	
36			E		E	
37			E		E	
38			E		E	
39			E		E	
40			E		E	
41			E		E	
42			E		E	
43			E		E	
44			E		E	
SUBTOTAL				\$2,835.47		41.48
MULTIPLIER (DEFAULT=1)				X 1.00	X	1.00
SHEET TOTALS FORWARDED TO >>> RECAP				\$2,835.47		41.48

SAMPLE PRINTOUTS

Lighting Quotation Summary

SUMMARY OF LIGHTING QUOTATIONS		JOB NAME	SAMPLE
	VENDOR NAME		PRICE
VENDOR #1	ABC SUPPLY		\$1,378.22
VENDOR #2	LOW BID SUPPLY		\$1,328.70
VENDOR #3			
VENDOR #4			
VENDOR #5			
VENDOR #6			
LOWEST PRICE FORWARDED TO RECAP			<hr/> \$1,328.70

SAMPLE PRINTOUTS

Lighting Fixture Quotation - Vendor #1

LIGHTING FIXTURE QUOTATION FROM - VENDOR #1					JOB NAME	SAMPLE		
VENDOR	ABC SUPPLY				TIME	11AM		
CONTACT	TED				DATE	9-1-98		
PHONE	988-6265				FAX	988-6335		
	TYPE	QTY.	PRICE EA.	EXT.	TYPE	QTY.	PRICE EA.	EXT.
1	A	10	\$45.60	\$456.00	19			
2	B	2	\$89.30	\$178.60	20			
3	C	1	\$21.67	\$21.67	21			
4	D	6	\$84.00	\$504.00	22			
5	E	3	\$72.65	\$217.95	23			
6					24			
7					25			
8					26			
9					27			
10					28			
11					29			
12					30			
13					31			
15					32			
15					33			
16					34			
17					35			
18					36			
VENDOR TOTAL FORWARDED TO LIGHTING QUOTATION >>> SUMMARY								\$1,378.22

Lighting Fixture Quotation - Vendor #2

LIGHTING FIXTURE QUOTATION FROM - VENDOR #2					JOB NAME	SAMPLE		
VENDOR	LOW BID SUPPLY				TIME	11:30AM		
CONTACT	TEX				DATE	9-4-98		
PHONE	986-5656				FAX	986-5551		
	TYPE	QTY.	PRICE EA.	EXT.	TYPE	QTY.	PRICE EA.	EXT.
1	A	10	\$44.10	\$441.00	19			
2	B	2	\$91.25	\$182.50	20			
3	C	1	\$26.00	\$26.00	21			
4	D	6	\$78.30	\$469.80	22			
5	E	3	\$69.80	\$209.40	23			
6					24			
7					25			
8					26			
9					27			
10					28			
11					29			
12					30			
13					31			
15					32			
15					33			
16					34			
17					35			
18					36			
VENDOR TOTAL FORWARDED TO LIGHTING QUOTATION >>> SUMMARY								\$1,328.70

SAMPLE PRINTOUTS

Power Quotations

POWER QUOTATIONS		JOB NAME	SAMPLE	
VENDOR	CONTACT	PHONE	DATE/TIME	PRICE
ABC SUPPLY	TED	988-6265	9-1-98 11AM	\$1,256.00
WEST COAST POWER	PAUL	981-2563	9-2-98 1PM	\$1,075.00
LOWEST QUOTE FORWARDED TO RECAP				\$1,075.00

Labor Rate Worksheet

LABOR RATE WORKSHEET		JOB NAME	SAMPLE	
ENTER PROJECT DURATION IN CALENDAR DAYS			40	
ENTER NUMBER OF WORK DAYS PER WEEK			5	
ENTER NUMBER OF WORK HOURS PER WORK DAY			8	
MANHOURS FORWARDED FROM RECAP			683.40	
WORK DAYS PROJECT DURATION			28.57	
TOTAL MANDAYS			85.42	
AVERAGE CREW SIZE REQUIRED			2.99	
NUMBER	DESCRIPTION	RATE	EXTENSION	
1	JOURNEYMAN	\$40.00	\$40.00	
1	FOREMAN	\$50.00	\$50.00	
1	HELPER	\$25.00	\$25.00	
3 MAN CREW				
AVERAGE LABOR RATE FORWARDED TO RECAP			\$38.33	

SAMPLE PRINTOUTS

Permit Cost Worksheet

PERMIT COST CALCULATION			
JOB NAME		SAMPLE	
DESCRIPTION	QTY.	COST/EACH	EXTENSION
LOT PRICE	1	\$450.00	\$450.00
PERMIT TOTAL FORAWRDED TO JOB COST WORKSHEET			\$450.00

Bonding Cost Worksheet

BONDING COST WORKSHEET		JOB NAME	
		AMOUNT	RATE
		SUBTOTAL FROM RECAP	
			\$52,888.55
BREAK POINT			
1ST TIER	\$25,000.00	\$25,000.00	3.00%
2ND TIER	\$50,000.00	\$25,000.00	2.50%
3RD TIER	\$75,000.00	\$2,888.55	2.00%
4TH TIER	\$100,000.00		%
5TH TIER	-----		%
BONDING COST FORWARDED TO RECAP			\$1,432.77

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #1

ASSEMBLY MAKEUP SHEET #1				DATE		9-15-98	
SW 1G 1-1P				EST. BY		PAUL	
#	DESCRIPTION	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT	
1	EMT 1/2"	17	\$23.77C	\$4.04	2.92C	0.50	
2	EMT COUP SS DC 1/2"	1	\$22.63C	\$0.23	4.50C	0.04	
3	EMT CONN SS DC 1/2"	2	\$21.30C	\$0.43	4.50C	0.09	
4	EMT STRAP 1H 1/2"	3	\$12.90C	\$0.39	4.50C	0.14	
5	SQ4 1.5D 1/2" KO	1	\$103.97C	\$1.04	22.50C	0.23	
6	SQ4-RING 1G RAISE 1/2"	1	\$60.17C	\$0.60	4.50C	0.04	
7	SW 1P 20A IV CS120-2I	1	\$162.96C	\$1.63	18.00C	0.18	
8	PLATE SWITCH 1G IV	1	\$20.04C	\$0.20	2.70C	0.03	
9	THHN CU SOLID #12	20	\$47.43M	\$0.95	4.50M	0.09	
10			E			E	
11			E			E	
12			E			E	
13			E			E	
14			E			E	
15			E			E	
16			E			E	
17			E			E	
18			E			E	
19			E			E	
20			E			E	
SUBTOTAL					\$9.50		1.33
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$9.50		1.33

Assembly MakeUp Sheet #2

ASSEMBLY MAKEUP SHEET #2				DATE		9-15-98	
SW 1G 1-3W				EST. BY		PAUL	
#	DESCRIPTION	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT	
1	EMT 1/2"	17	\$23.77C	\$4.04	2.92C	0.50	
2	EMT COUP SS DC 1/2"	1	\$22.63C	\$0.23	4.50C	0.04	
3	EMT CONN SS DC 1/2"	2	\$21.30C	\$0.43	4.50C	0.09	
4	EMT STRAP 1H 1/2"	3	\$12.90C	\$0.39	4.50C	0.14	
5	SQ4 1.5D 1/2" KO	1	\$103.97C	\$1.04	22.50C	0.23	
6	SQ4-RING 1G RAISE 1/2"	1	\$60.17C	\$0.60	4.50C	0.04	
7	SW 3W 20A IV CS320-2I	1	\$251.64C	\$2.52	22.50C	0.23	
8	PLATE SWITCH 1G IV	1	\$20.04C	\$0.20	2.70C	0.03	
9	THHN CU SOLID #12	60	\$47.43M	\$2.85	4.50M	0.27	
10			E			E	
11			E			E	
12			E			E	
13			E			E	
14			E			E	
15			E			E	
16			E			E	
17			E			E	
18			E			E	
19			E			E	
20			E			E	
SUBTOTAL					\$12.28		1.56
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$12.28		1.56

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #3

ASSEMBLY MAKEUP SHEET #3				DATE	9-15-98		
SW 1G 1-4W				EST. BY	PAUL		
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"		17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"		1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"		2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"		3	\$12.90C	\$0.39	4.50C	0.14
5	SQ4 1.5D 1/2" KO		1	\$103.97C	\$1.04	22.50C	0.23
6	SQ4-RING 1G RAISE 1/2"		1	\$60.17C	\$0.60	4.50C	0.04
7	SW 4W 20A IV CS420-2I		1	\$1,200.00C	\$12.00	27.00C	0.27
8	PLATE SWITCH 1G IV		1	\$20.04C	\$0.20	2.70C	0.03
9	THHN CU SOLID #12		80	\$47.43M	\$3.79	4.50M	0.36
10				E		E	
11				E		E	
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$22.72		1.69
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$22.72		1.69

Assembly MakeUp Sheet #5

ASSEMBLY MAKEUP SHEET #5				DATE	9-15-98		
SW 2G 2-1P				EST. BY	PAUL		
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"		17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"		1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"		2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"		3	\$12.90C	\$0.39	4.50C	0.14
5	SQ4 1.5D 1/2" KO		1	\$103.97C	\$1.04	22.50C	0.23
6	SQ4-RING 2G RAISE 1/2"		1	\$82.63C	\$0.83	4.50C	0.04
7	SW 1P 20A IV CS120-2I		2	\$162.96C	\$3.26	18.00C	0.36
8	WIRENUT RED		2	\$5.59C	\$0.11	2.70C	0.05
9	PLATE SWITCH 2G IV		1	\$40.08C	\$0.40	3.60C	0.04
10	THHN CU SOLID #12		60	\$47.43M	\$2.85	4.50M	0.27
11				E		E	
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$13.56		1.76
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$13.56		1.76

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #6

ASSEMBLY MAKEUP SHEET #6				DATE		9-15-98	
SW 2G 1-1P 1-3W				EST. BY		PAUL	
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"		17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"		1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"		2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"		3	\$12.90C	\$0.39	4.50C	0.14
5	SQ4 1.5D 1/2" KO		1	\$103.97C	\$1.04	22.50C	0.23
6	SQ4-RING 2G RAISE 1/2"		1	\$82.63C	\$0.83	4.50C	0.04
7	SW 1P 20A IV CS120-2I		1	\$162.96C	\$1.63	18.00C	0.18
8	SW 3W 20A IV CS320-2I		1	\$251.64C	\$2.52	22.50C	0.23
9	WIRENUT RED		3	\$5.59C	\$0.17	2.70C	0.08
10	PLATE SWITCH 2G IV		1	\$40.08C	\$0.40	3.60C	0.04
11	THHN CU SOLID #12		100	\$47.43M	\$4.74	4.50M	0.45
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$16.40		2.01
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$16.40		2.01

Assembly MakeUp Sheet #7

ASSEMBLY MAKEUP SHEET #7				DATE		9-15-98	
SW 2G 1-1P 1-4W				EST. BY		PAUL	
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"		17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"		1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"		2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"		3	\$12.90C	\$0.39	4.50C	0.14
5	SQ4 1.5D 1/2" KO		1	\$103.97C	\$1.04	22.50C	0.23
6	SQ4-RING 2G RAISE 1/2"		1	\$82.63C	\$0.83	4.50C	0.04
7	SW 1P 20A IV CS120-2I		1	\$162.96C	\$1.63	18.00C	0.18
8	SW 4W 20A IV CS420-2I		1	\$1,200.00C	\$12.00	27.00C	0.27
9	WIRENUT RED		4	\$5.59C	\$0.22	2.70C	0.11
10	PLATE SWITCH 2G IV		1	\$40.08C	\$0.40	3.60C	0.04
11	THHN CU SOLID #12		120	\$47.43M	\$5.69	4.50M	0.54
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$26.89		2.17
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$26.89		2.17

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #8

ASSEMBLY MAKEUP SHEET #8				DATE	9-15-98		
SW 2G 2-3W				EST. BY	PAUL		
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"		17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"		1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"		2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"		3	\$12.90C	\$0.39	4.50C	0.14
5	SQ4 1.5D 1/2" KO		1	\$103.97C	\$1.04	22.50C	0.23
6	SQ4-RING 2G RAISE 1/2"		1	\$82.63C	\$0.83	4.50C	0.04
7	SW 3W 20A IV CS320-2I		2	\$251.64C	\$5.03	22.50C	0.45
8	WIRENUT RED		3	\$5.59C	\$0.17	2.70C	0.08
9	PLATE SWITCH 2G IV		1	\$40.08C	\$0.40	3.60C	0.04
10	THHN CU SOLID #12		120	\$47.43M	\$5.69	4.50M	0.54
11				E		E	
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$18.24		2.14
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$18.24		2.14

Assembly MakeUp Sheet #9

ASSEMBLY MAKEUP SHEET #9				DATE	9-15-98		
SW 2G 1-3W 1-4W				EST. BY	PAUL		
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 3/4"		17	\$40.37C	\$6.86	3.15C	0.54
2	EMT COUP SS DC 3/4"		1	\$36.65C	\$0.37	5.40C	0.05
3	EMT CONN SS DC 3/4"		2	\$33.69C	\$0.67	5.40C	0.11
4	EMT STRAP 1H 3/4"		3	\$16.97C	\$0.51	5.40C	0.16
5	SQ4-RING 2G RAISE 1/2"		1	\$82.63C	\$0.83	4.50C	0.04
6	SW 3W 20A IV CS320-2I		1	\$251.64C	\$2.52	22.50C	0.23
7	SW 4W 20A IV CS420-2I		1	\$1,200.00C	\$12.00	27.00C	0.27
8	WIRENUT RED		5	\$5.59C	\$0.28	2.70C	0.14
9	PLATE SWITCH 2G IV		1	\$40.08C	\$0.40	3.60C	0.04
10	THHN CU SOLID #12		140	\$47.43M	\$6.64	4.50M	0.63
11	SQ4 1.5D 3/4" KO		1	\$118.03C	\$1.18	22.50C	0.23
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$32.26		2.43
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$32.26		2.43

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #11

ASSEMBLY MAKEUP SHEET #11				DATE	9-15-98	
SW 3G 3-1P				EST. BY	PAUL	
#	DESCRIPTION	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"	17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"	1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"	2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"	3	\$12.90C	\$0.39	4.50C	0.14
5	GANG BOX 1 5/8" DEEP 3G	1	\$890.89C	\$8.91	19.80C	0.20
6	GANG RING RAISE 3/4" 3G	1	\$574.22C	\$5.74	9.00C	0.09
7	SW 1P 20A IV CS120-2I	3	\$162.96C	\$4.89	18.00C	0.54
8	WIRENUT RED	3	\$5.59C	\$0.17	2.70C	0.08
9	PLATE SWITCH 3G IV	1	\$60.12C	\$0.60	4.50C	0.04
10	THHN CU SOLID #12	80	\$47.43M	\$3.79	4.50M	0.36
11			E		E	
12			E		E	
13			E		E	
14			E		E	
15			E		E	
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	
SUBTOTAL				\$29.18		2.08
MULTIPLIER (DEFAULT=1)				X 1.00	X	1.00
ASSEMBLY TOTAL				\$29.18		2.08

Assembly MakeUp Sheet #12

ASSEMBLY MAKEUP SHEET #12				DATE	9-15-98	
SW 3G 2-1P 1-3W				EST. BY	PAUL	
#	DESCRIPTION	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"	17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"	1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"	2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"	3	\$12.90C	\$0.39	4.50C	0.14
5	GANG BOX 1 5/8" DEEP 3G	1	\$890.89C	\$8.91	19.80C	0.20
6	GANG RING RAISE 3/4" 3G	1	\$574.22C	\$5.74	9.00C	0.09
7	SW 1P 20A IV CS120-2I	2	\$162.96C	\$3.26	18.00C	0.36
8	SW 3W 20A IV CS320-2I	1	\$251.64C	\$2.52	22.50C	0.23
9	WIRENUT RED	4	\$5.59C	\$0.22	2.70C	0.11
10	PLATE SWITCH 3G IV	1	\$60.12C	\$0.60	4.50C	0.04
11	THHN CU SOLID #12	120	\$47.43M	\$5.69	4.50M	0.54
12			E		E	
13			E		E	
14			E		E	
15			E		E	
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	
SUBTOTAL				\$32.02		2.33
MULTIPLIER (DEFAULT=1)				X 1.00	X	1.00
ASSEMBLY TOTAL				\$32.02		2.33

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #13

ASSEMBLY MAKEUP SHEET #13				DATE	9-15-98		
SW 3G 1-1P 2-3W				EST. BY	PAUL		
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
	1	EMT 3/4"	17	\$40.37C	\$6.86	3.15C	0.54
	2	EMT COUP SS DC 3/4"	1	\$36.65C	\$0.37	5.40C	0.05
	3	EMT CONN SS DC 3/4"	2	\$33.69C	\$0.67	5.40C	0.11
	4	EMT STRAP 1H 3/4"	3	\$16.97C	\$0.51	5.40C	0.16
	5	GANG BOX 1 5/8" DEEP 3G	1	\$890.89C	\$8.91	19.80C	0.20
	6	GANG RING RAISE 3/4" 3G	1	\$574.22C	\$5.74	9.00C	0.09
	7	SW 1P 20A IV CS120-2I	1	\$162.96C	\$1.63	18.00C	0.18
	8	SW 3W 20A IV CS320-2I	2	\$251.64C	\$5.03	22.50C	0.45
	9	WIRENUT RED	4	\$5.59C	\$0.22	2.70C	0.11
	10	PLATE SWITCH 3G IV	1	\$60.12C	\$0.60	4.50C	0.04
	11	THHN CU SOLID #12	160	\$47.43M	\$7.59	4.50M	0.72
	12			E		E	
	13			E		E	
	14			E		E	
	15			E		E	
	16			E		E	
	17			E		E	
	18			E		E	
	19			E		E	
	20			E		E	
SUBTOTAL					\$38.14		2.65
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$38.14		2.65

Assembly MakeUp Sheet #14

ASSEMBLY MAKEUP SHEET #14				DATE	9-15-98		
SW 3G 2-1P 1-4W				EST. BY	PAUL		
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
	1	EMT 1/2"	17	\$23.77C	\$4.04	2.92C	0.50
	2	EMT COUP SS DC 1/2"	1	\$22.63C	\$0.23	4.50C	0.04
	3	EMT CONN SS DC 1/2"	2	\$21.30C	\$0.43	4.50C	0.09
	4	EMT STRAP 1H 1/2"	3	\$12.90C	\$0.39	4.50C	0.14
	5	GANG BOX 1 5/8" DEEP 3G	1	\$890.89C	\$8.91	19.80C	0.20
	6	GANG RING RAISE 3/4" 3G	1	\$574.22C	\$5.74	9.00C	0.09
	7	SW 1P 20A IV CS120-2I	2	\$162.96C	\$3.26	18.00C	0.36
	8	SW 4W 20A IV CS420-2I	1	\$1,200.00C	\$12.00	27.00C	0.27
	9	WIRENUT RED	5	\$5.59C	\$0.28	2.70C	0.14
	10	PLATE SWITCH 3G IV	1	\$60.12C	\$0.60	4.50C	0.04
	11	THHN CU SOLID #12	140	\$47.43M	\$6.64	4.50M	0.63
	12			E		E	
	13			E		E	
	14			E		E	
	15			E		E	
	16			E		E	
	17			E		E	
	18			E		E	
	19			E		E	
	20			E		E	
SUBTOTAL					\$42.51		2.50
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$42.51		2.50

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #15

ASSEMBLY MAKEUP SHEET #15				DATE		9-15-98	
SW 3G 3-3W				EST. BY		PAUL	
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 3/4"		17	\$40.37C	\$6.86	3.15C	0.54
2	EMT COUP SS DC 3/4"		1	\$36.65C	\$0.37	5.40C	0.05
3	EMT CONN SS DC 3/4"		2	\$33.69C	\$0.67	5.40C	0.11
4	EMT STRAP 1H 3/4"		3	\$16.97C	\$0.51	5.40C	0.16
5	GANG BOX 1 5/8" DEEP 3G		1	\$890.89C	\$8.91	19.80C	0.20
6	GANG RING RAISE 3/4" 3G		1	\$574.22C	\$5.74	9.00C	0.09
7	SW 3W 20A IV CS320-2I		3	\$251.64C	\$7.55	22.50C	0.68
8	WIRENUT RED		6	\$5.59C	\$0.34	2.70C	0.16
9	PLATE SWITCH 3G IV		1	\$60.12C	\$0.60	4.50C	0.04
10	THHN CU SOLID #12		180	\$47.43M	\$8.54	4.50M	0.81
11				E		E	
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$40.09		2.84
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$40.09		2.84

Assembly MakeUp Sheet #51

ASSEMBLY MAKEUP SHEET #51				DATE		9-15-98	
DUPLEX 1-15A				EST. BY		PAUL	
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"		17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"		1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"		2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"		3	\$12.90C	\$0.39	4.50C	0.14
5	SQ4 1.5D 1/2" KO		1	\$103.97C	\$1.04	22.50C	0.23
6	SQ4-RING 1G RAISE 1/2"		1	\$60.17C	\$0.60	4.50C	0.04
7	DUPLEX 15A IV 5320-ICP		1	\$42.30C	\$0.42	22.50C	0.23
8	WIRENUT RED		3	\$5.59C	\$0.17	2.70C	0.08
9	PLATE DUPLEX 1G IV		1	\$20.04C	\$0.20	2.70C	0.03
10	THHN CU STRANDED #12		40	\$54.66M	\$2.19	4.50M	0.18
11				E		E	
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$9.69		1.55
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$9.69		1.55

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #52

ASSEMBLY MAKEUP SHEET #52				DATE		9-15-98	
DUPLX 2-15A				EST. BY		PAUL	
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"		17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"		1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"		2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"		3	\$12.90C	\$0.39	4.50C	0.14
5	SQ4 1.5D 1/2" KO		1	\$103.97C	\$1.04	22.50C	0.23
6	SQ4-RING 1G RAISE 1/2"		1	\$60.17C	\$0.60	4.50C	0.04
7	DUPLEX 15A IV 5320-ICP		2	\$42.30C	\$0.85	22.50C	0.45
8	WIRENUT RED		3	\$5.59C	\$0.17	2.70C	0.08
9	PLATE DUPLEX 2G IV		1	\$40.08C	\$0.40	3.60C	0.04
10	THHN CU SOLID #12		43	\$47.43M	\$2.04	4.50M	0.19
11				E		E	
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$10.18		1.80
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$10.18		1.80

Assembly MakeUp Sheet #53

ASSEMBLY MAKEUP SHEET #53				DATE		9-15-98	
DUPLX 1-20A				EST. BY		PAUL	
DESCRIPTION	#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	EMT 1/2"		17	\$23.77C	\$4.04	2.92C	0.50
2	EMT COUP SS DC 1/2"		1	\$22.63C	\$0.23	4.50C	0.04
3	EMT CONN SS DC 1/2"		2	\$21.30C	\$0.43	4.50C	0.09
4	EMT STRAP 1H 1/2"		3	\$12.90C	\$0.39	4.50C	0.14
5	SQ4 1.5D 1/2" KO		1	\$103.97C	\$1.04	22.50C	0.23
6	SQ4-RING 1G RAISE 1/2"		1	\$60.17C	\$0.60	4.50C	0.04
7	DUPLEX 20A IV 5342-I		1	\$486.30C	\$4.86	22.50C	0.23
8	WIRENUT RED		3	\$5.59C	\$0.17	2.70C	0.08
9	PLATE DUPLEX 1G IV		1	\$20.04C	\$0.20	2.70C	0.03
10	THHN CU STRANDED #12		40	\$54.66M	\$2.19	4.50M	0.18
11				E		E	
12				E		E	
13				E		E	
14				E		E	
15				E		E	
16				E		E	
17				E		E	
18				E		E	
19				E		E	
20				E		E	
SUBTOTAL					\$14.14		1.55
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
ASSEMBLY TOTAL					\$14.14		1.55

SAMPLE PRINTOUTS

Assembly MakeUp Sheet #54

ASSEMBLY MAKEUP SHEET #54				DATE	9-15-98	
DUPLX 2-20A				EST. BY	PAUL	
DESCRIPTION	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT	
1 EMT 1/2"	17	\$23.77C	\$4.04	2.92C	0.50	
2 EMT COUP SS DC 1/2"	1	\$22.63C	\$0.23	4.50C	0.04	
3 EMT CONN SS DC 1/2"	2	\$21.30C	\$0.43	4.50C	0.09	
4 EMT STRAP 1H 1/2"	3	\$12.90C	\$0.39	4.50C	0.14	
5 SQ4 1.5D 1/2" KO	1	\$103.97C	\$1.04	22.50C	0.23	
6 SQ4-RING 1G RAISE 1/2"	1	\$60.17C	\$0.60	4.50C	0.04	
7 DUPLEX 20A IV 5342-I	2	\$486.30C	\$9.72	22.50C	0.45	
8 WIRENUT RED	3	\$5.59C	\$0.17	2.70C	0.08	
9 PLATE DUPLEX 2G IV	1	\$40.08C	\$0.40	3.60C	0.04	
10 THHN CU SOLID #12	43	\$47.43M	\$2.04	4.50M	0.19	
11		E		E		
12		E		E		
13		E		E		
14		E		E		
15		E		E		
16		E		E		
17		E		E		
18		E		E		
19		E		E		
20		E		E		
SUBTOTAL			\$19.06		1.80	
MULTIPLIER (DEFAULT=1)		X	1.00	X	1.00	
ASSEMBLY TOTAL			\$19.06		1.80	

SAMPLE PRINTOUTS

Material List Printout (from Material List Module)

MATERIAL LIST		PAGE 1
JOB:	UNTITLED	
FILE	C:\EST\MAT2.BWB	
DATE	09/01/98	
#	ITEM	QTY
1	WIRENUT RED	913
2	WIRENUT GRAY	26
3	THHN CU STRANDED 300	400
4	THHN CU STRANDED 3/0	240
5	THHN CU STRANDED #12	1,200
6	THHN CU SOLID #12	20,876
7	THHN CU SOLID #10	1,200
8	SW 4W 20A IV CS420-2I	29
9	SW 3W 20A IV CS320-2I	100
10	SW 1P 20A IV CS120-2I	102
11	SW 1P 15A IV CS115-2I	12
12	SQ411 COVER BLANK	6
13	SQ411 2.1D 1" KO	6
14	SQ4-RING 2G RAISE 1/2"	30
15	SQ4-RING 1G RAISE 1/2"	130
16	SQ4 COVER BLANK	20
17	SQ4 1.5D COMBO	82
18	SQ4 1.5D 3/4" KO	8
19	SQ4 1.5D 1/2" KO	90
20	PVC 40 ELL 3/4"	14
21	PVC 40 COUP 3/4"	42
22	PVC 40 3/4"	350
23	PLATE SWITCH 3G IV	55
24	PLATE SWITCH 2G IV	30
25	PLATE SWITCH 1G IV	18
26	PLATE DUPLEX 2G IV	32
27	PLATE DUPLEX 1G IV	80
28	LOCKNUT 3"	4
29	LOCKNUT 2"	4
30	GRC ELL 3"	3
31	GRC ELL 2"	2
32	GRC COUP 3"	10
33	GRC COUP 2"	6
34	GRC 3"	120
35	GRC 2"	60
36	GANG RING RAISE 3/4" 3G	55
37	GANG BOX 1 5/8" DEEP 3G	55
38	FLEX STEEL 1/2"	40
39	FLEX CONN SQ DC 1/2"	20
40	EMT STRAP 1H 3/4"	267
41	EMT STRAP 1H 1/2"	823
42	EMT STRAP 1H 1"	41
43	EMT COUP SS DC 3/4"	112
44	EMT COUP SS DC 1/2"	357
45	EMT COUP SS DC 1"	24
46	EMT CONN SS DC 3/4"	100
47	EMT CONN SS DC 1/2"	342
48	EMT CONN SS DC 1"	10
49	EMT 3/4"	1,224
50	EMT 1/2"	4,057

MATERIAL LIST		PAGE 2
JOB:	UNTITLED	
FILE	C:\EST\MAT2.BWB	
DATE	09/01/98	
#	ITEM	QTY
51	EMT 1"	190
52	DUPLEX 20A IV 5342-I	50
53	DUPLEX 15A IV 5320-ICP	44
54	DUPLEX 15A IV 5242-I	50
55	BUSHING PLASTIC 3"	2
56	BUSHING PLASTIC 2"	2
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

SAMPLE PRINTOUTS

Pricing Sheet (Without Prices and Extensions)

JOB NAME		PRICING SHEET #1		
DESCRIPTION		SAMPLE		
#	ITEM	QTY	M/PRICE	PER
1	EMT 1/2"	1,200	_____	_____
2	EMT 3/4"	450	_____	_____
3	EMT 1"	130	_____	_____
4	EMT COUP SS DC 1/2"	140	_____	_____
5	EMT COUP SS DC 3/4"	52	_____	_____
6	EMT COUP SS DC 1"	16	_____	_____
7	EMT CONN SS DC 1/2"	46	_____	_____
8	EMT CONN SS DC 3/4"	20	_____	_____
9	EMT CONN SS DC 1"	8	_____	_____
10	EMT STRAP 1H 1/2"	260	_____	_____
11	EMT STRAP 1H 3/4"	113	_____	_____
12	EMT STRAP 1H 1"	26	_____	_____
13	SQ4 1.5D COMBO	60	_____	_____
14	SQ411 2.1D 1" KO	4	_____	_____
15	SQ4 COVER BLANK	10	_____	_____
16	SQ411 COVER BLANK	4	_____	_____
17	SQ4-RING 1G RAISE 1/2"	50	_____	_____
18	DUPLEX 15A IV 5242-I	50	_____	_____
19	PLATE DUPLEX 1G IV	50	_____	_____
20	THHN CU SOLID #12	4,800	_____	_____
21	WIRENUT RED	210	_____	_____
22			_____	_____
23			_____	_____
24			_____	_____
25			_____	_____
26			_____	_____
27			_____	_____
28			_____	_____
29			_____	_____
30			_____	_____
31			_____	_____
32			_____	_____
33			_____	_____
34			_____	_____
35			_____	_____
36			_____	_____
37			_____	_____
38			_____	_____
39			_____	_____
40			_____	_____
41			_____	_____
42			_____	_____
43			_____	_____
44			_____	_____

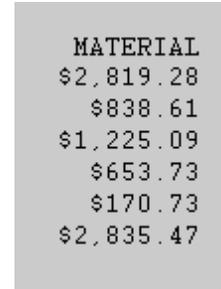
DATA ENTRY

GENERAL

Screens are divided into four (4) cell types listed below.

1. FIXED CELLS (No entry allowed)

The fixed cells have black letters on a gray background. You may not enter data in a fixed cell. If you try, you will get an error message "protected cell".



MATERIAL
\$2,819.28
\$838.61
\$1,225.09
\$653.73
\$170.73
\$2,835.47

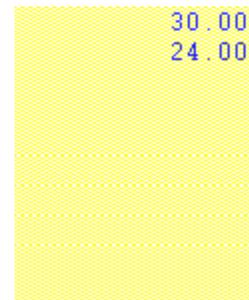


2. AUTOMATIC CELLS (Double click to toggle)

The automatic cells have red letters on a green background. Simply double click on the cell to toggle the "X" on or off.

3. ENTRY CELLS (Input numbers or letters)

The entry cells have blue letters on a yellow background. With the mouse, activate the cell and from the keyboard type in the numbers or letters.



30.00
24.00



LIGHTING
POWER
QUOTE #1
QUOTE #2
QUOTE #3
QUOTE #4
QUOTE #5
QUOTE #6
QUOTE #7
QUOTE #8

4. HOT CELLS (Double click to select item)

The hot cells have red letters on a gray background. Simply double click on the cell to select an item.

ASSEMBLY PRICE SHEET

RECAP		ASSEMBLY PRICE SHEET #1			DATE	9-15-98
JOB NAME		SAMPLE			EST #	123
ASSEMBLIES 1-#0					EST. BY	PAUL
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	SW 1G 1-1P	1	\$9.50 E	\$9.50	1.33 E	1.33
2	SW 1G 1-3W	2	\$12.28 E	\$24.57	1.56 E	3.12
3	SW 1G 1-4W	3	\$22.72 E	\$68.15	1.69 E	5.08
4			E		E	
5	SW 2G 2-1P	4	\$13.56 E	\$54.26	1.76 E	7.03
6	SW 2G 1-1P 1-3W	5	\$16.40 E	\$82.02	2.01 E	10.05
7	SW 2G 1-1P 1-4W	6	\$26.89 E	\$161.35	2.17 E	13.03
8	SW 2G 2-3W	7	\$18.24 E	\$127.67	2.14 E	15.01
9	SW 2G 1-3W 1-4W	8	\$32.26 E	\$258.05	2.43 E	19.40
10			E		E	
11	SW 3G 3-1P	9	\$29.18 E	\$262.65	2.08 E	18.73
12	SW 3G 2-1P 1-3W	10	\$32.02 E	\$320.24	2.33 E	23.33
13	SW 3G 1-1P 2-3W	11	\$38.14 E	\$419.54	2.65 E	29.16
14	SW 3G 2-1P 1-4W	12	\$42.51 E	\$510.14	2.50 E	29.94
15	SW 3G 3-3W	13	\$40.09 E	\$521.13	2.84 E	36.91
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	
21			E		E	
22			E		E	
23			E		E	
24			E		E	
25			E		E	
26			E		E	
27			E		E	
28			E		E	
29			E		E	
30			E		E	
31			E		E	
32			E		E	
33			E		E	
34			E		E	
35			E		E	
36			E		E	
37			E		E	
38			E		E	
39			E		E	
40			E		E	
41			E		E	
42			E		E	
43			E		E	
44			E		E	
45			E		E	
46			E		E	
47			E		E	
48			E		E	
49			E		E	
50			E		E	
SHEET TOTALS FORWARDED TO RECAP				\$2,819.28	212.13	

Assembly descriptions forwarded from makeup sheets

Material costs forwarded from makeup sheets

Labor units forwarded from makeup sheets

Enter quantity of assemblies

Typical hot cells

Totals forwarded to recap

ASSEMBLY MAKEUP SHEET

ASSEMBLY SHEET

ASSEMBLY MAKEUP SHEET #1

DATE 8-15-98

DESCRIPTION SW 1G 1-1P EST. BY PAUL

#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	ENT 1/2"	17	\$23.77 C	\$4.04	2.92 C	0.50
2	ENT COUP SS DC 1/2"	1	\$22.63 C	\$0.23	4.50 C	0.04
3	ENT CONN SS DC 1/2"	2	\$21.30 C	\$0.43	4.50 C	0.09
4	AP 1H 1/2"	3	\$12.90 C	\$0.39	4.50 C	0.14
5	D 1/2" KO	1	\$103.97 C	\$1.04	22.50 C	0.23
6	SW 1G 1G RAISE 1/2"	1	\$60.17 C	\$0.60	4.50 C	0.04
7	SW 1P 20A IV CS120-2I	1	\$162.96 C	\$1.63	18.00 C	0.18
8	PLATE SWITCH 1G IV	1	\$20.04 C	\$0.20	2.70 C	0.03
9	THHN CU SOLID #12	20	\$47.43 M	\$0.95	4.50 M	0.09
10					E	
11					E	
12					E	
13					E	
14					E	
15					E	
16					E	
17					E	
18					E	
19					E	
20					E	

SUBTOTAL \$9.50 1.33

MULTIPLIER (DEFAULT=1) X 1.00 X 1.00

ASSEMBLY TOTAL \$9.50 1.33

Callouts:

- Enter description of assembly
- Material prices automatically imported from database.
- Activate the cell you wish to import into and select material from pulldown menu.
- Labor units automatically imported from database.
- Typical hot cells
- Enter quantity
- Totals forwarded assembly sheets

If you wish, you may manually enter items on the makeup sheet. Type in the description, arrow one cell right and enter quantity, arrow one cell right and enter the price, arrow one cell right and enter multiplier (E, C or M), arrow two cells right and enter the labor unit, and arrow one cell right and enter multiplier (E, C or M).

PRICING SHEET

Activate the cell you wish to import into and select material from pulldown menu.

Material prices automatically imported from database.

Labor units automatically imported from database.

RECAP		PRICING SHEET #1			DATE	9-15-98	
JOB NAME		SAMPLE			EST #	123	
DESCRIPTION		BRANCH CIRCUIT POWER			EST. BY	PAUL	
#	ITEM	QTY	M/PRICE	M/EXT	L/UN/MT	L/EXT	
1	EMT 1/2"	1,200	\$23.77 C	\$285.26	2.92 C	35.10	
2	EMT 3/4"	450	\$40.37 C	\$181.68	3.15 C	14.18	
3	EMT 1"	130	\$68.96 C	\$89.65	3.60 C	4.68	
4	EMT COUP SS DC 1/2"	140	\$22.63 C	\$31.68	4.50 C	6.30	
5	EMT COUP SS DC 3/4"	52	\$36.65 C	\$19.06	5.40 C	2.81	
6	EMT COUP SS DC 1"	16	\$59.89 C	\$9.58	7.20 C	1.15	
7	EMT CONN SS DC 1/2"	46	\$21.30 C	\$9.79	4.50 C	2.07	
8	EMT CONN SS DC 3/4"	20	\$33.69 C	\$6.74	5.40 C	1.08	
9	EMT CONN SS DC 1"	8	\$55.48 C	\$4.44	6.30 C	0.50	
10	EMT STRAP 1H 1/2"	260	\$12.90 C	\$33.54	4.50 C	11.70	
11	EMT STRAP 1H 3/4"	113	\$16.97 C	\$19.18	5.40 C	6.10	
12	EMT STRAP 1H 1"	26	\$28.84 C	\$7.29	7.20 C	1.87	
13	SQ4 1.5D COMBO	60	\$65.40	\$65.40	22.50 C	13.50	
14	SQ411 2.1D 1" KO	4	\$11.11	\$11.11	22.50 C	0.90	
15	SQ4 COVER BLANK	10	\$40.54 C	\$4.05	4.50 C	0.45	
16	SQ411 COVER BLANK	4	\$72.34 C	\$2.89	5.40 C	0.22	
17	SQ4-RING 1G RAISE 1/2"	50	\$60.17 C	\$30.09	4.50 C	2.25	
18	DUPLEX 15A IV 5242-I	50	\$328.44 C	\$164.22	22.50 C	11.25	
19	PLATE DUPLEX 1G IV	50	\$20.04 C	\$10.02	2.70 C	1.35	
20	THHN CU SOLID #12	4,800	\$47.43 M	\$227.66	4.50 M	21.60	
21	WIRENUT RED	210	\$5.59 C	\$11.73	2.70 C	5.67	
22			E			E	
23			E			E	
24			E			E	
25			E			E	
26			E			E	
27			E			E	
28			E			E	
29			E			E	
30			E			E	
31			E			E	
32			E			E	
33			E			E	
34			E			E	
35			E			E	
36			E			E	
37			E			E	
38			E			E	
39			E			E	
40			E			E	
41			E			E	
42			E			E	
43			E			E	
44			E			E	
SUBTOTAL				\$1,225.09		144.73	
MULTIPLIER (DEFAULT=1)				X	1.00	X	1.00
SHEET TOTALS FORWARDED TO >>> RECAP				\$1,225.09		144.73	

Enter quantity

Typical hot cells

Totals forwarded to recap

If you wish, you may manually enter items on the pricing sheet. Type in the description, arrow one cell right and enter quantity, arrow one cell right and enter the price, arrow one cell right and enter multiplier (E, C or M), arrow two cells right and enter the labor unit, and arrow one cell right and enter multiplier (E, C or M).

LIGHTING QUOTATION SUMMARY

LIGHTING QUOTATION SUMMARY		JOB NAME	SAMPLE
RECAP			
	VENDOR NAME		PRICE
VENDOR #1	ABC SUPPLY		\$1,378.22
VENDOR #2	LOW BID SUPPLY	Totals forwarded from lighting fixture quotations	\$1,328.70
VENDOR #3			
VENDOR #4	Typical hot cells		
VENDOR #5		Total forwarded to recap	
VENDOR #6			
LOWEST PRICE FORWARDED TO	RECAP		\$1,328.70

LIGHTING FIXTURE QUOTATION

LIGHTING FIXTURE QUOTATION FROM - VENDOR #2				JOB NAME	SAMPLE		
VENDOR	LOW BID SUPPLY			TIME	11:30AM		
CONTACT	TEX			DATE	9-4-98		
PHONE	986-5656			FAX	986-5551		
TYPE	QTY.	PRICE EA.	EXT.	TYPE	QTY.	PRICE EA.	EXT.
1	A	10	\$44.10	\$441.00	19		
2	B	2	\$91.25	\$182.50	20		
3	C	1	\$26.00	\$26.00	21		
4	D	6	\$78.30	\$469.80	22		
5	E	3	\$69.80	\$209.40	23		
6					24		
7					25		
8					26		
9					27		
10					28		
11					29		
12					30		
13					31		
15					32		
15					33		
16					34		
17					35		
18					36		
VENDOR TOTAL FORWARDED TO LIGHTING QUOTATION >>>				SUMMARY			\$1,328.70

POWER OR MISC. QUOTATION

Enter description of quote

POWER QUOTATIONS JOB NAME SAMPLE

RECAP

VENDOR	CONTACT	PHONE	DATE/TIME	PRICE
ABC SUPPLY	TED	988-6265	9-1-98 11AM	\$1,256.00
WEST COAST POWER	PAUL	981-2563	9-2-98 1PM	\$1,075.00

Enter vendor name Enter contact name Enter phone number Enter date time Enter price quoted

Total forwarded to recap

LOWEST QUOTE FORWARDED TO RECAP Typical hot cells \$1,075.00

LABOR RATE WORKSHEET

Enter calendar days, work days, and work hours

LABOR RATE WORKSHEET JOB NAME SAMPLE

RECAP

ENTER PROJECT DURATION IN CALENDAR DAYS 40

ENTER NUMBER OF WORK DAYS PER WEEK 5

ENTER NUMBER OF WORK HOURS PER WORK DAY 8

MANHOURS FORWARDED FROM RECAP 683.40

WORK DAYS PROJECT DURATION 28.57

TOTAL MANDAYS 85.42

Enter # of men

AVERAGE CREW SIZE REQUIRED 2.99

Crew size should be close

NUMBER	DESCRIPTION	Enter employee description	RATE	EXTENSION
1	JOURNEYMAN		\$40.00	\$40.00
1	FOREMAN		\$50.00	\$50.00
1	HELPER		\$25.00	\$25.00
3	MAN CREW			

Enter rate per hour

Typical hot cells

Total forwarded to recap

AVERAGE LABOR RATE FORWARDED TO >> RECAP \$38.33

PERMIT COST WORKSHEET

PERMIT COST CALCULATION	SAMPLE	QTY.	COST/EACH	EXTENSION
JOB NAME				
JOB COST				
DESCRIPTION				
LOT PRICE		1	\$450.00	\$450.00
PERMIT TOTAL FORWARDED TO >>> JOB COST				\$450.00

Enter description

Enter quantity

Enter cost each

Typical hot cells

Total forwarded to job cost worksheet

BONDING COST WORKSHEET

There are two methods of using this worksheet.

Tiered Method - Enter ascending dollar values for 1st, 2nd, 3rd and 4th tiers. Then enter descending percentage values for bonding rates.

BONDING COST WORKSHEET		JOB NAME	SAMPLE
RECAP			
<div style="border: 1px solid black; padding: 2px;">Enter ascending dollar values</div>		<div style="border: 1px solid black; padding: 2px;">Enter descending percentage values</div>	
	BREAK POINT	AMOUNT	RATE
1ST TIER	\$25,000.00	\$25,000.00	3.00 %
2ND TIER	\$50,000.00	\$25,000.00	2.50 %
3RD TIER	\$75,000.00	\$2,888.55	2.00 %
4TH TIER	\$100,000.00		
5TH TIER	-----		
		<div style="border: 1px solid black; padding: 2px;">Typical hot cells</div>	<div style="border: 1px solid black; padding: 2px;">Total forwarded to recap</div>
		BONDING COST FORWARDED TO >> RECAP	\$1,432.77
			\$52,888.55

Standard Method - Enter percentage value for bonding rate at 5th tier. Do not enter ascending dollar values for 1st, 2nd, 3rd and 4th tiers. Do not enter any percentage values for bonding rates at 1st, 2nd, 3rd, or 4th tiers.

BONDING COST WORKSHEET		JOB NAME	SAMPLE
RECAP			
<div style="border: 1px solid black; padding: 2px;">No entry or zero</div>		<div style="border: 1px solid black; padding: 2px;">No entry or zero</div>	
	BREAK POINT		RATE
1ST TIER			
2ND TIER			
3RD TIER			
4TH TIER			
5TH TIER	-----	\$52,888.55	4.00 %
		<div style="border: 1px solid black; padding: 2px;">Enter percentage</div>	<div style="border: 1px solid black; padding: 2px;">Total forwarded to recap</div>
		BONDING COST FORWARDED TO >> RECAP	\$2,115.54
			\$52,888.55

GENERAL PROJECT INFORMATION (Non-Linked Worksheet)

GENERAL PROJECT INFORMATION	JOB NAME	SAMPLE
RECAP		
PROJECT NAME ADDRESS CITY/STATE BID DUE DATE/TIME		BID DOCUMENTS
ARCHITECT CONTACT ADDRESS CITY/STATE TELEPHONE FAX		DATED
ELECTRICAL ENGINEER CONTACT ADDRESS CITY/STATE TELEPHONE FAX		

Enter general project information

Enter information regarding documents

Enter date of documents

OUTGOING BIDS (Non-Linked Worksheet)

OUTGOING BIDS	JOB NAME	SAMPLE	PRICE
RECAP	NAME/CONTACT	PHONE/FAX	DATE/TIME
BID #1			
BID #2			
BID #3			
BID #4			
BID #5			
BID #6			
BID #7			
BID #8			
BID #9			
BID #10			
BID #11			
BID #12			
BID #13			
BID #14			
BID #15			
BID #16			
RECAP			

Enter contact name

Enter phone number

Enter date time

Enter price quoted

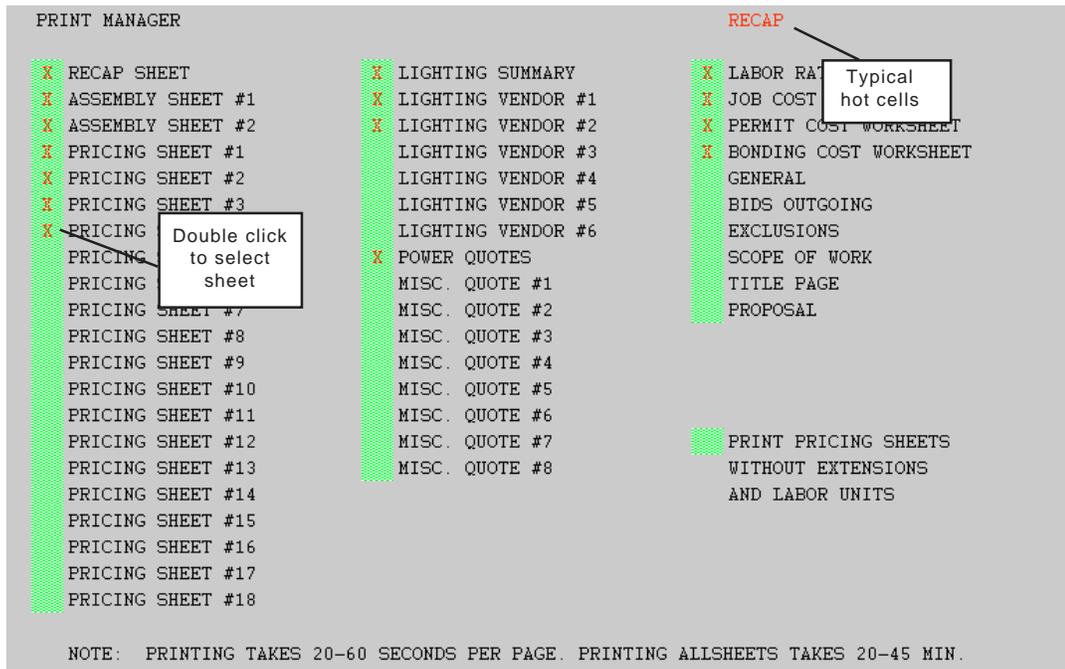
Typical hot cells

EXCLUSIONS, SCOPE, TITLE, and PROPOSAL FORMS (Non-Linked Worksheets)

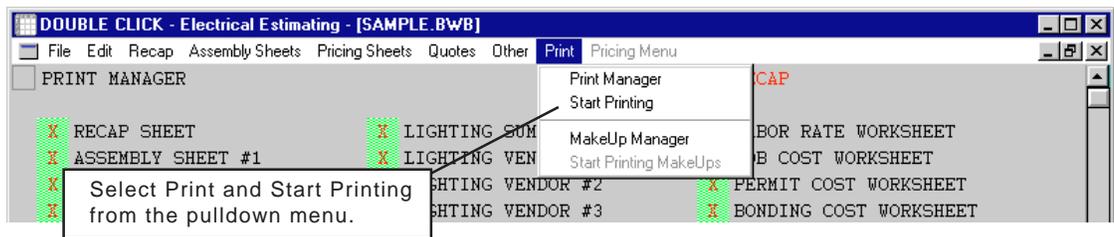
The image shows a screenshot of a spreadsheet application. The spreadsheet has a grey background. In the top-left corner, the text "EXCLUSIONS" is displayed in black, and "RECAP" is displayed in red below it. In the top-right corner, the text "JOB NAME" is above "DATE", and "SAMPLE" is above "9-15-98". A large yellow rectangular area covers most of the spreadsheet's content. Two callout boxes with black borders and white backgrounds are present. The first callout box, containing the text "Enter information", has a line pointing to the top edge of the yellow area. The second callout box, containing the text "Typical hot cells", has a line pointing to the left edge of the yellow area.

PRINT MANAGER (Non-Linked Worksheets)

The print manager is used to select the worksheets you wish to print. Simply double click on the automatic cells to select the sheets you wish to print.



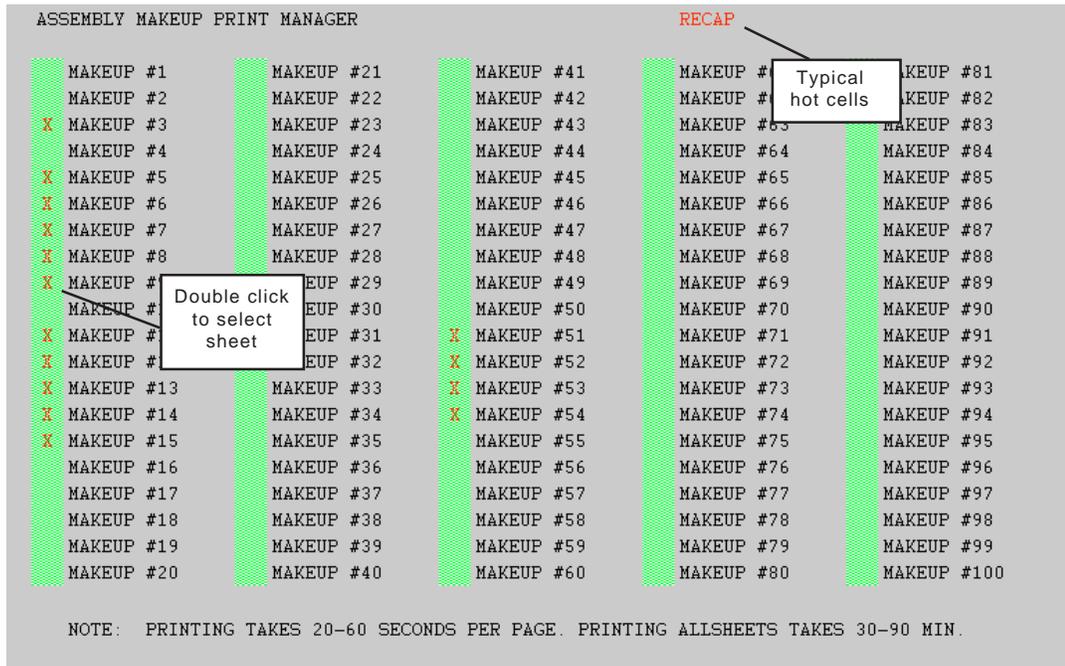
After selecting worksheets, go to the pulldown menu and select Start Printing.



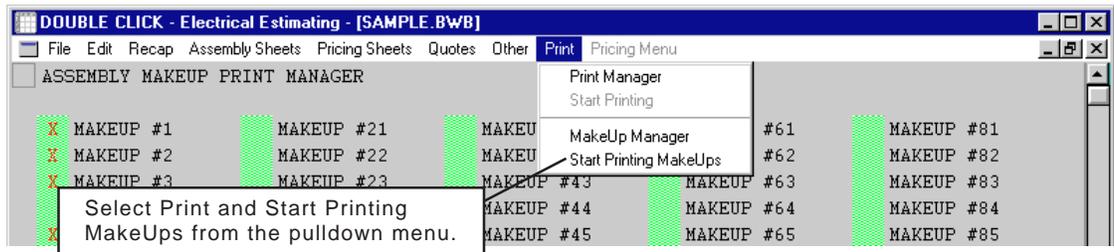
NOTE: Printing takes 20-60 seconds per page and printing all sheets can take 20-45 minutes.

MAKEUP MANAGER (Non-Linked Worksheets)

The makeup manager is used to select the makeup sheets you wish to print. Simply double click on the automatic cells to select the sheets you wish to print.



After selecting worksheets, goto the pulldown menu and select Start Printing MakeUps.



NOTE: Printing takes 20-60 seconds per page and printing all sheets can take 30-90 minutes.

DATA IMPORT SCREEN (Linked To Database)

Use this screen to select items to import.

Single Item - Double click on the description (Hot Cell) to import one single item.

Multi Item - Double click on the (Automatic Cells) to select multiple items and then double click on Import Tagged Items (Hot Cell) to import tagged items.

IMPORT TAGGED ITEMS

MATERIAL	TRADE PRICE	P	ADJUST %	ADJUSTED PRICE	USER PRICE
GALVANIZED RIGID CONDUIT					
TAG	ITEM			ACTIVE	
X	GRC 1/2"	\$151.56	C -40	\$90.94	
X	GRC 3/4"	193.88	C -40	116.33	
X	GRC 1"	291.35	C -40	174.81	
	GRC 1 1/4"	377.44	C -40	226.46	
	GRC 1 1/2"	458.81	C -40	275.29	
	GRC 2"	615.18	C -40	369.11	
	GRC 2 1/2"	1,001.77	C -25	751.33	
	GRC 3"	1,284.60	C -25	963.45	
	GRC 3 1/2"	1,562.07	C -25	1,171.55	
	GRC 4"	1,825.06	C -25	1,368.79	
	GRC 5"	3,629.89	C -25	2,722.42	
	GRC 6"	5,072.45	C -25	3,804.34	

TRADE PRICES ARE ALLIED 3/30/98

TAG ALL ITEMS SPECIAL TAGS RETURN

CLEAR ALL TAGS ABOUT SPECIAL TAGS

Annotations:

- Double click to import tagged items (points to MATERIAL)
- Double click to tag items (points to TAG)
- Double click to import a single item (points to GRC 2")
- Double click to select pricing level (points to ADJUST %)
- Brown active indicates pricing level selection (points to ACTIVE)
- Double click to return to price sheet without importing prices (points to RETURN)

To view labor units used the pagedown key.

LABOR	STANDARD LABOR UNIT	P	ADJUST %	ADJUSTED LABOR UNIT	USER LABOR UNIT
GALVANIZED RIGID CONDUIT					
				ACTIVE	
	GRC 1/2"	4.00	C -10	3.60	
	GRC 3/4"	4.50	C -10	4.05	
	GRC 1"	5.00	C -10	4.50	
	GRC 1 1/4"	7.00	C -10	6.30	
	GRC 1 1/2"	8.00	C -10	7.20	
	GRC 2"	10.00	C -10	9.00	
	GRC 2 1/2"	12.00	C -10	10.80	
	GRC 3"	14.00	C -10	12.60	
	GRC 3 1/2"	16.00	C -10	14.40	
	GRC 4"	18.00	C -10	16.20	
	GRC 5"	25.00	C -10	22.50	
	GRC 6"	30.00	C -10	27.00	

LABOR UNITS ARE DURAND & ASSOCIATES 2/1/98

Annotations:

- Double click to select labor level (points to ADJUST %)
- Brown active indicates labor level selection (points to ACTIVE)

MENUBARS, MENUS and COMMANDS

Double Click has a feature called Smart Menus. The program automatically displays a different menubar when working with various sheets.

MAIN MENUBAR



The Pricing Menu command is grayed out and is only active when working with a pricing or makeup sheet.

FILE MENU



- Open - Opens a file stored on your hard disk
- Close - Closes current file
- Save - Saves current file
- SaveAs - Saves current file with a new name
- Template Save - Saves a template file
- Template Read - Reads a template file
- Template Blank - Reads a blank template file
- Export MAT Files - Exports files to Material List Module
- Printer Setup - Allows you to select a printer
- Exit - Exits Double Click returns to Windows

EDIT MENU



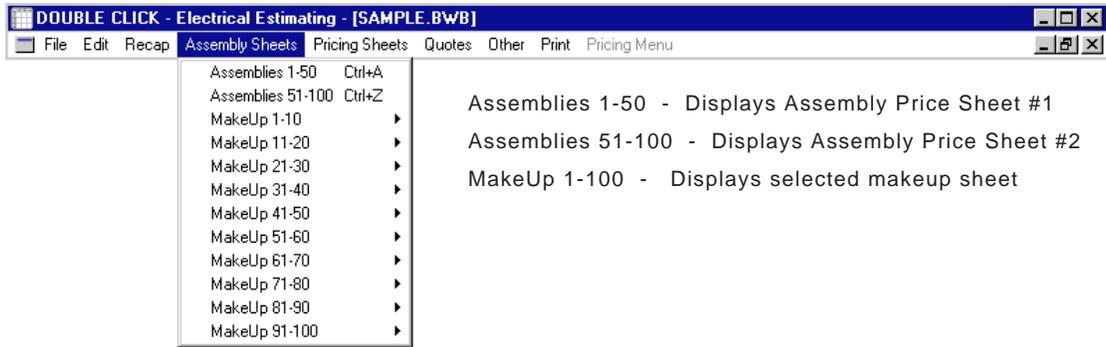
- Clear Active Worksheet - Clears active sheet
- Copy Active Worksheet - Non-Active grayed out
- Paste Clipboard Worksheet - Non-Active grayed out
- Arrange Active Worksheet - Non-Active grayed out

RECAP MENU

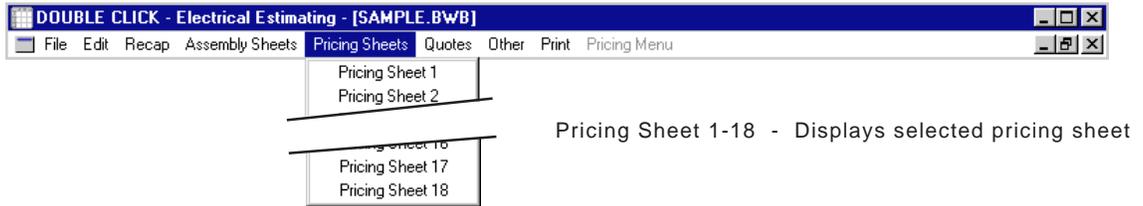


- Recap Top - Displays top portion of recap sheet
- Recap Middle - Displays middle portion of recap sheet
- Recap Bottom - Displays bottom portion of recap sheet

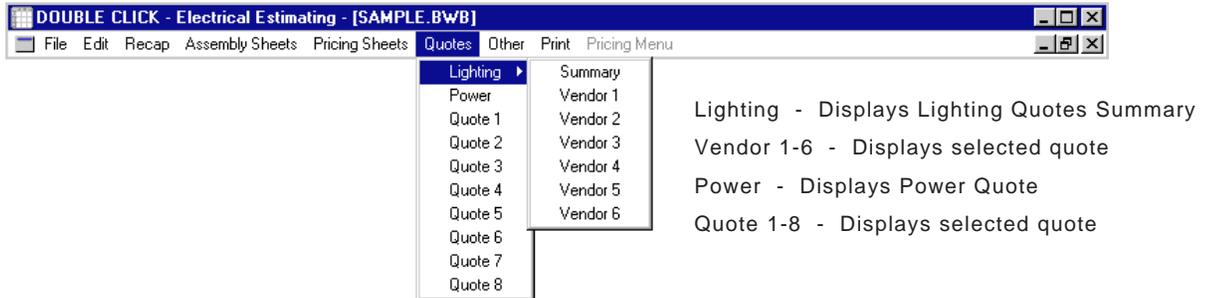
ASSEMBLY MENU



PRICING SHEET MENU



QUOTES MENU



OTHER MENU



- Bids - Displays outgoing bids
- Bond - Displays bonding worksheet
- Exclusions - Displays exclusions
- General - Displays project information
- Job Cost - Displays Job Cost
- Labor Rate - Displays labor rate
- Permit Fee - Displays permit cost
- Proposal - Displays proposal
- Scope of Work - Display scope of work
- Title Page - Displays title page

PRINT MENU



- Print Manager - Activates print manager
- Start Printing - Non-active grayed out
- MakeUp Manager - Activates makeup manager
- Start Printing MakeUps - Non-active grayed out

NOTE:

Print Manager or MakeUp Manager must be displayed before print commands will work.

PRICING MENU BAR

The pricing menu bar activates anytime you display a pricing or makeup sheet.



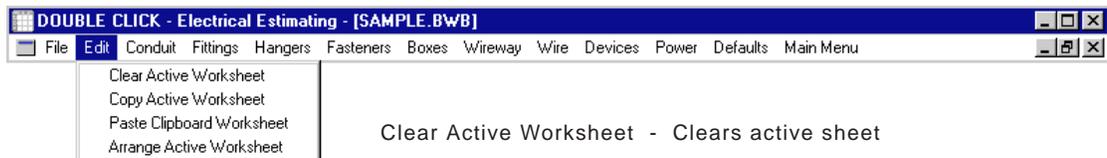
To return to main menu use the Main Menu command.

FILE MENU



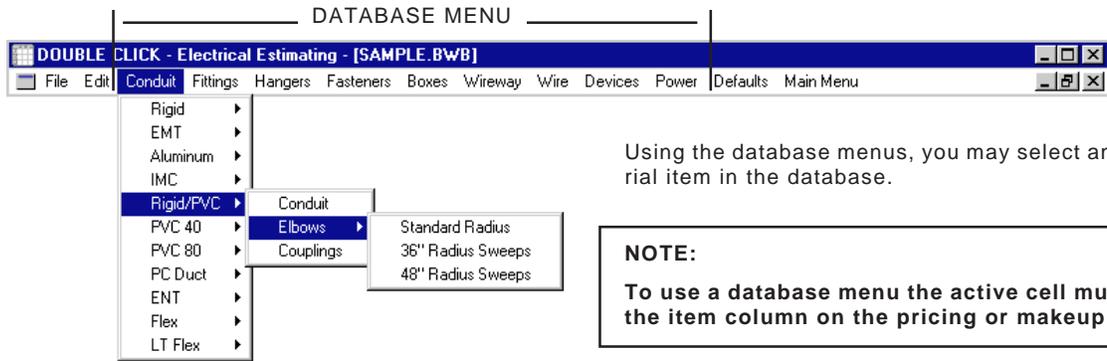
- Open - Opens a file stored on your hard disk
- Close - Closes current file
- Save - Saves current file
- SaveAs - Saves current file with a new name
- Export MAT Files - Exports files to Material List Module
- Printer Setup - Allows you to select a printer
- Exit - Exits Double Click returns to Windows

EDIT MENU



- Clear Active Worksheet - Clears active sheet
- Copy Active Worksheet - Copy active sheet to clipboard
- Paste Clipboard Worksheet - Paste clipboard to active sheet
- Arrange Active Worksheet - Delete items with zero quantities

DATABASE MENU

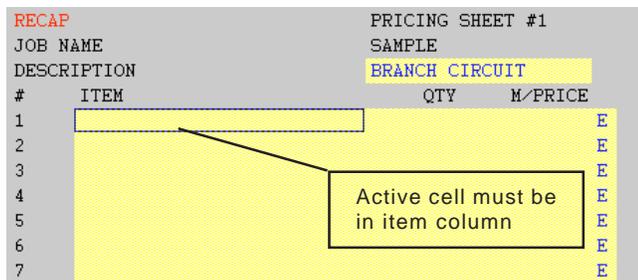


Using the database menus, you may select any material item in the database.

NOTE:

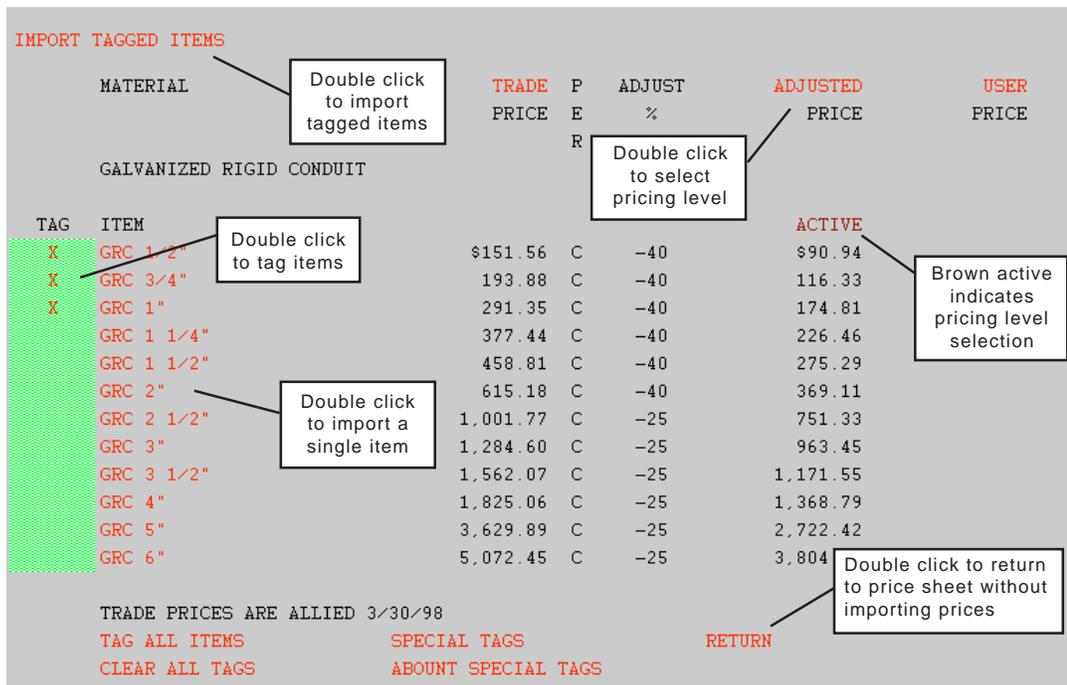
To use a database menu the active cell must be in the item column on the pricing or makeup sheet.

ACTIVE CELL IN ITEM COLUMN



DATABASE SCREEN

Once you have selected an item, the following screen will appear.



DATABASE MENUBAR

Once the database screen displays, the Database Menubar appears.

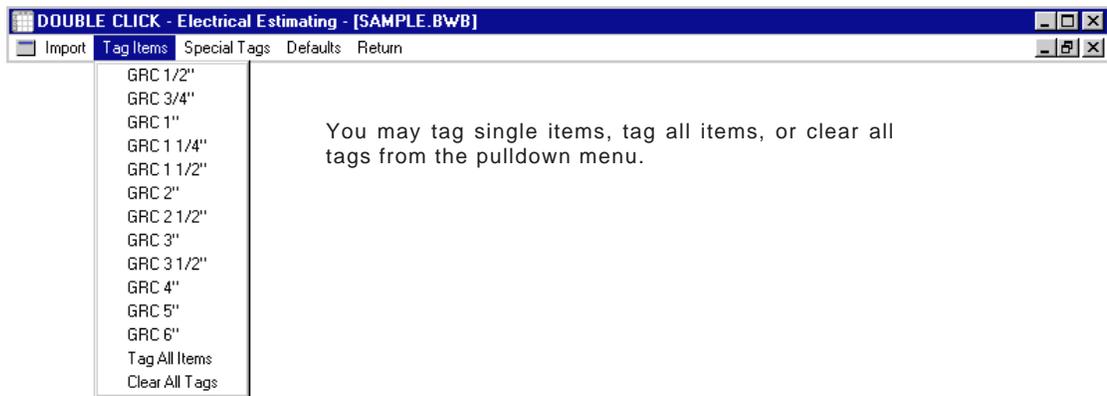


IMPORT MENU



Import Tagged Items - Any items marked with tags will be transferred to the pricing or makeup sheet.

TAG MENU



You may tag single items, tag all items, or clear all tags from the pulldown menu.

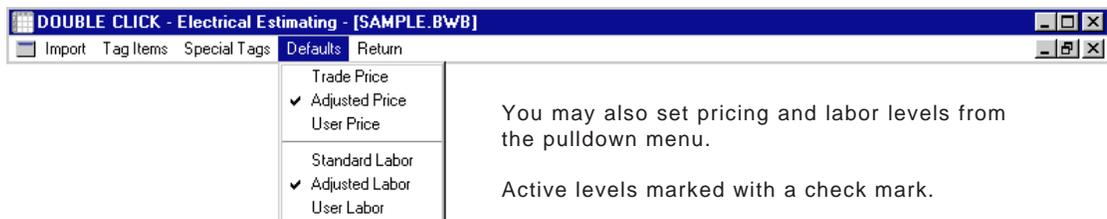
SPECIAL TAGS MENU



You may tag the first three items in a material group by using the Tag 1st Three Items command. This can be very helpful when taking off branch circuit wiring.

EXAMPLE: 1/2", 3/4" and 1" items are used on branch circuit wiring and may be tagged with one action of the mouse.

DEFAULTS MENU



You may also set pricing and labor levels from the pulldown menu.

Active levels marked with a check mark.

RETURN MENU



Return - Return to main menu without importing items.

PRICING MENUBAR (continued)

After returning from the database screen the pricing menubar will reappear.



DEFAULTS MENU



You may also set pricing and labor levels from the pulldown menu.

You may also set the Cursor Right or Cursor Down defaults.

Active levels marked with a check mark.

CURSOR RIGHT

If you set the cursor right default, the active cell will move one cell right after material has been transferred from database.

Before Transfer

The screenshot shows a pricing sheet with the following data:

#	ITEM	QTY	M/PRICE
1			E
2			E
3			E
4			

The active cell is at the intersection of row 1 and column 2. A callout box points to this cell with the text "Active cell position before transfer".

After Transfer

The screenshot shows the pricing sheet after a transfer. The data is now:

#	ITEM	QTY	M/PRICE
1	GRC 1/2"		\$90.94 C
2			E
3			E
4			

The active cell is now at the intersection of row 1 and column 3. A callout box points to this cell with the text "Active cell position after transfer".

The cursor right default is ideal if you select one item at a time and wish to input the quantity after transferring data from the database.

If you plan to transfer more than one material item or you do not plan to input quantities after transferring data, you should use the cursor down default.

CURSOR DOWN

Before Transfer

#	ITEM	QTY	M/PRICE
1			E
2			E
3			E
4			

Active cell position before transfer

After Transfer

#	ITEM	QTY	M/PRICE
1	GRC 1/2"		\$90.94 C
2			E
3			E
4			

Active cell position after transfer

The cursor down position leaves the active cell in the item column so you can access the database menu without repositioning the cursor.

RETURN to MAIN MENU



Main Menu - Return to main menu

RETURN to PRICING MENU

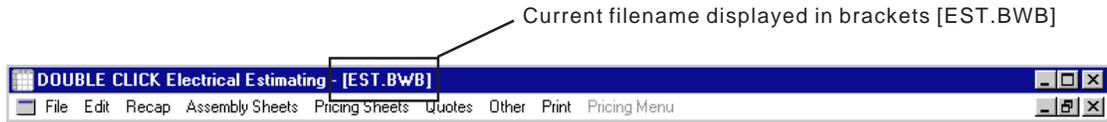


Price Menu - Return to price menu

SAVING, OPENING & DELETING FILES

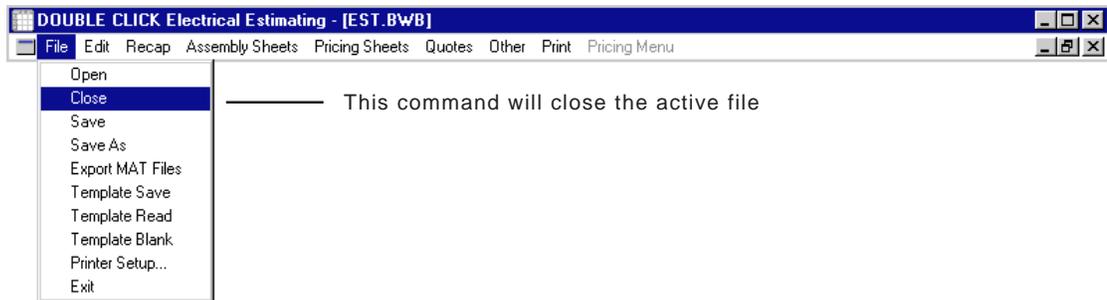
When you start the Double Click Electrical Estimating Software, the program always loads the default file EST.BWB. When you receive your program this file is blank. We recommend you leave this file blank until such time as you are completely familiar with this program.

MAIN MENUBAR - [FILENAME]



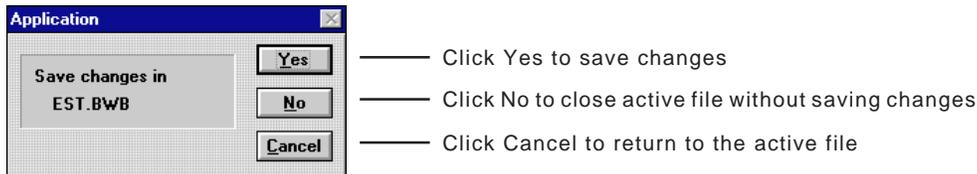
CLOSING A FILE

We recommend you only work with one file at a time. Before opening a file, select the File & Close commands from the pulldown menu.



SAVING CHANGES BEFORE CLOSING

If you have not saved changes in the active file, the program will ask you if you want to save changes before closing.



If you click Yes or No the file will closed and no file will be displayed on screen.

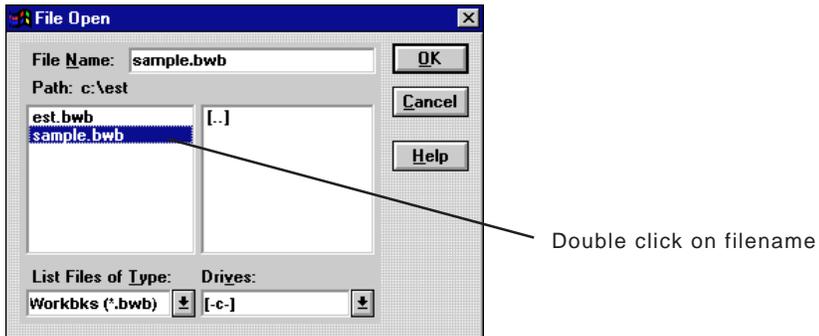


OPENING A FILE

To open a file select File and Open commands from the pulldown menu.

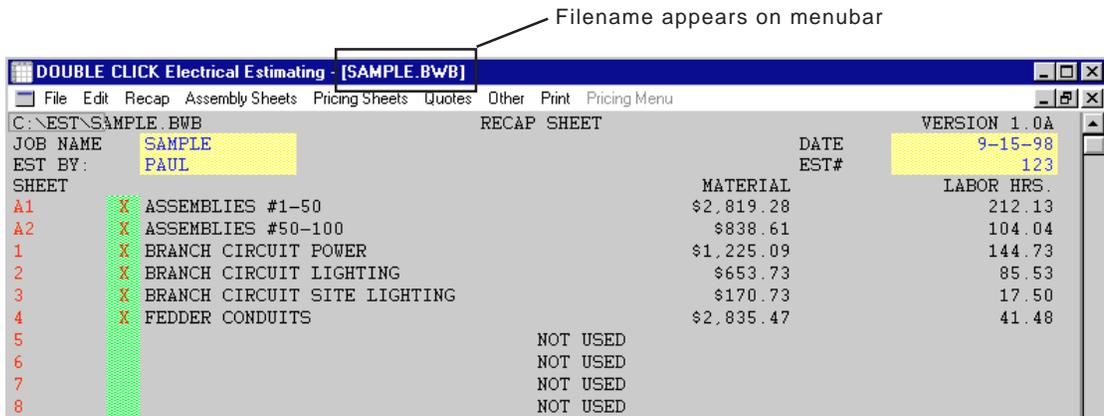


Double click on the file you wish to open.



After double clicking the file will load.

Typical file loading times: Pentium I - 133 MHZ = 68 seconds
Pentium II - 300 MHZ = 42 seconds



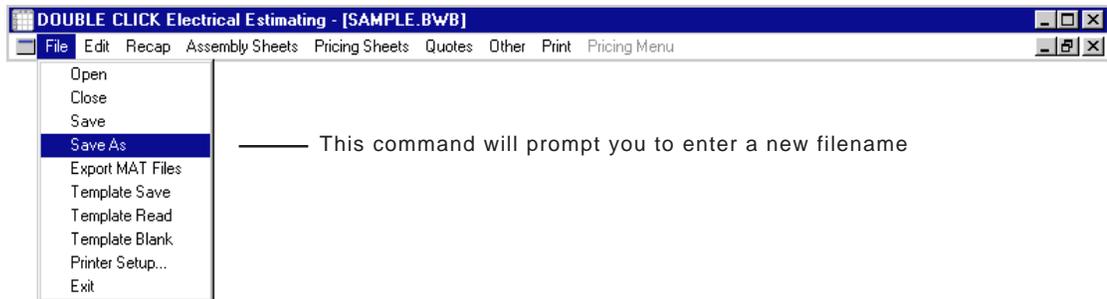
SAVE A FILE

To save the active file select File and Save commands from the pulldown menu.

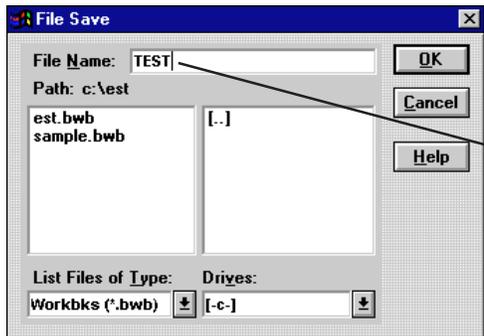


SAVE A FILE BY A NEW NAME

To save the active file by a new filename select File and SaveAs commands from the pulldown menu.



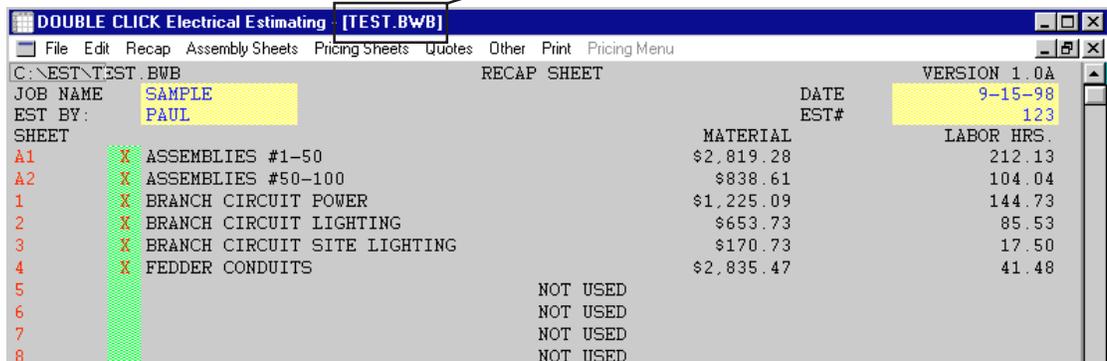
Enter new filename.



Enter new filename then click OK

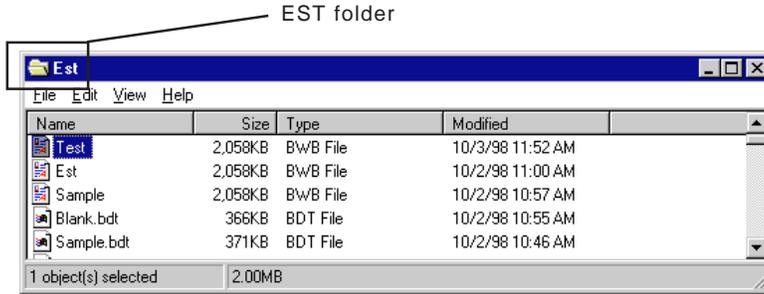
NOTE: Simply type the new filename in 8 letters or less, and the program will automatically add the ".BWB" extension.

New filename appears on menubar

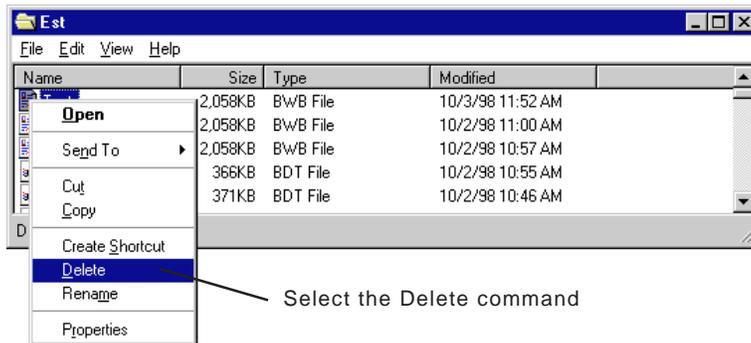


DELETING A FILE

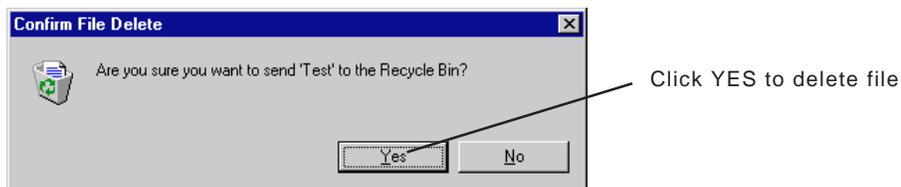
You may not delete a file from Double Click. To delete a file return to Windows and select the C:\EST folder.



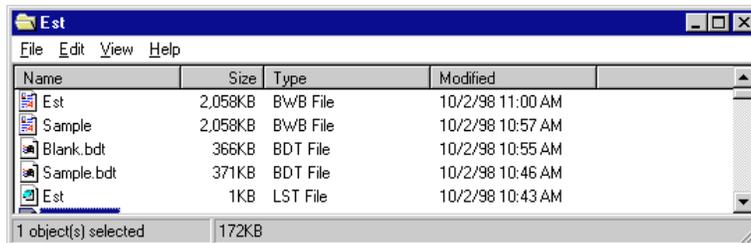
Locate the file you want to delete and right click on the icon.



Windows will ask if you are sure you want to send the file to the Recycle Bin.



File has been deleted.



NOTE: Windows will not let you delete a file that is in use.

TEMPLATE FILES

You may save or read template files. Template files differ from regular .BWB files in that they have a .BDT extension.

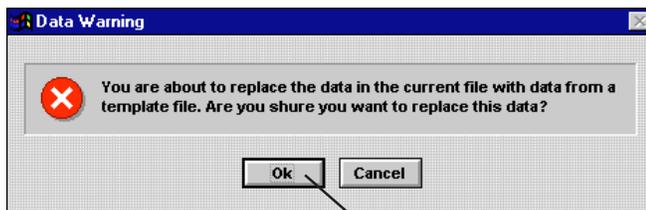
READING TEMPLATE FILES

To read a template file select File and Template Read commands from the pulldown menu.

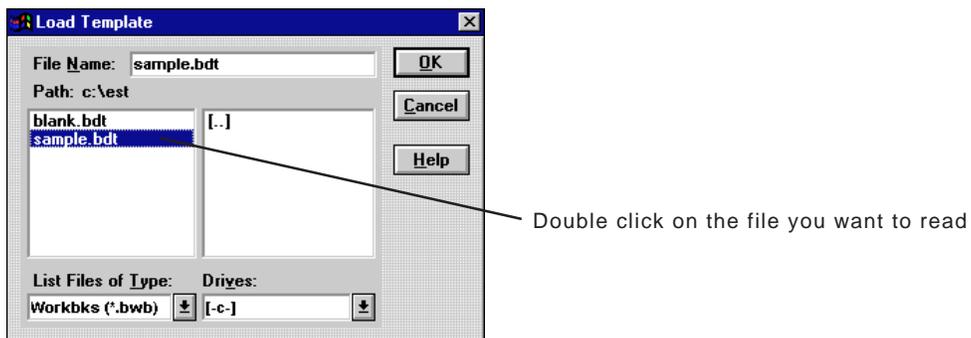


DATA WARNING

When you read a template file, all information in the active file will be replaced with the information from the template file.



Double click on the template file you wish to read.

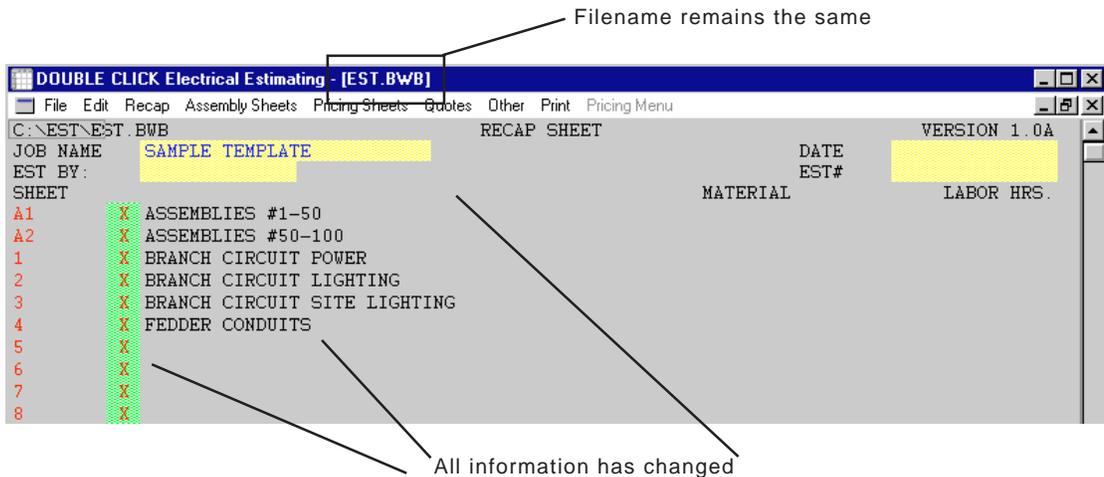


After double clicking the program will read the template file.

Typical file reading times: Pentium I - 133 MHZ = 25 seconds
Pentium II - 300 MHZ = 14 seconds

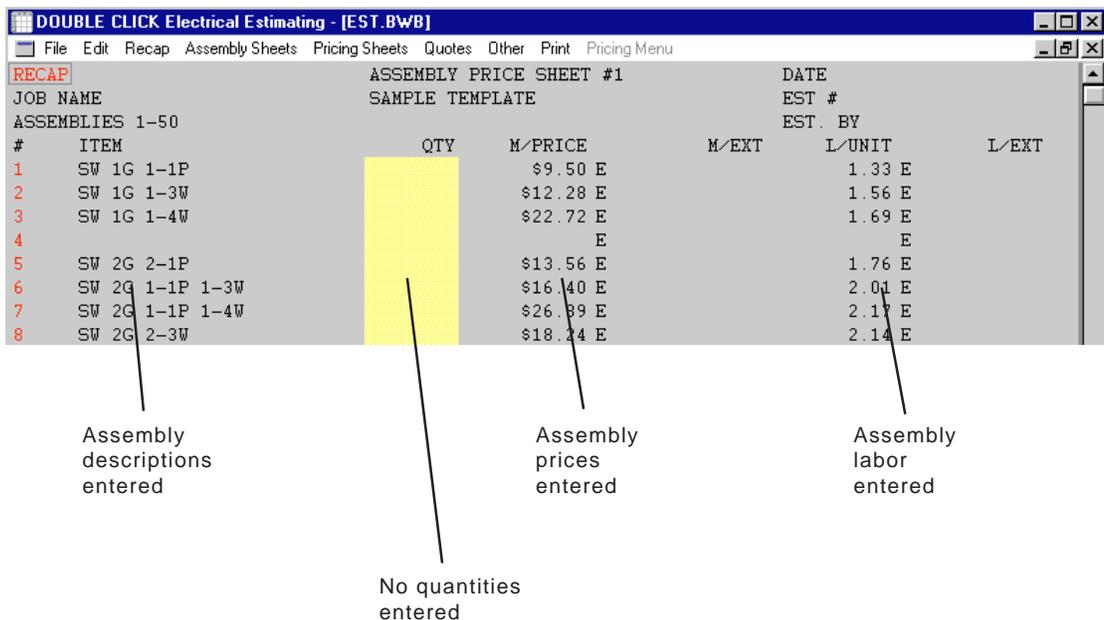


After the template has been read all information in the active file has been replaced. The filename for the active .BWB remains the same.



Template files are files you create to use as a beginning point for an estimate. The template files should have material items, prices, and labor units. In a template file all quantities should be zero.

Let's look at the sample file assembly sheet.



Let's look at the sample file pricing sheet.

#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	I/EXT
1	EMT 1/2"		\$23.77 C		2.92 C	
2	EMT 3/4"		\$40.37 C		3.15 C	
3	EMT 1"		\$68.96 C		3.60 C	
4	EMT COUP SS DC 1/2"		\$22.63 C		4.50 C	
5	EMT COUP SS DC 3/4"		\$36.65 C		5.40 C	
6	EMT COUP SS DC 1"		\$59.89 C		7.20 C	
7	EMT CONN SS DC 1/2"		\$21.30 C		4.50 C	
8	EMT CONN SS DC 3/4"		\$33.19 C		5.40 C	

Material descriptions entered

Material prices entered

Labor units entered

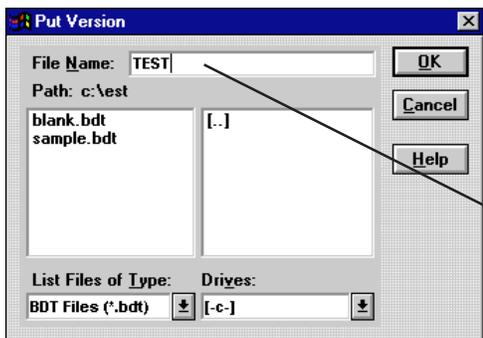
No quantities entered

SAVING A TEMPLATE FILE

Select the File and Template Save commands from the pull down menu.



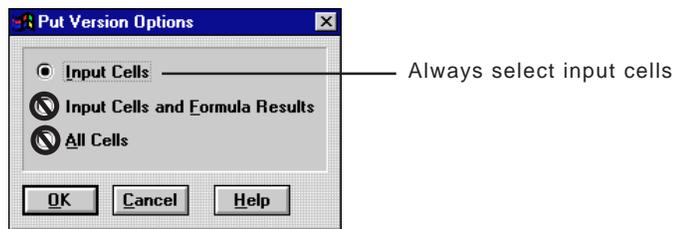
Enter new filename.



Enter new filename then click OK

NOTE: Simply type the new filename in 8 letters or less and the program will automatically add the ".BDT" extension.

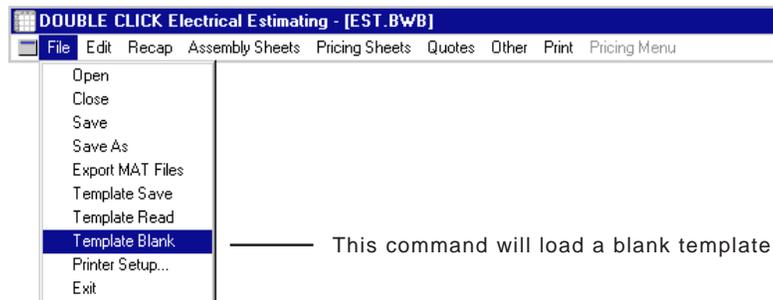
Always save input cells.



NOTE: Always save input cells. Saving in any other format will result in loss of data.

LOAD A BLANK TEMPLATE

Select the File and Template Blank commands from the pulldown menu.



Template Blank command is useful in clearing all data from the file.

DELETING TEMPLATE FILES

Using Windows you may delete template .BDT files the same way as you delete .BWB files.

PRICING & LABOR SOFTWARE

Included with your purchase of your Double Click - Electrical Estimating Software is a FREE 1-Year subscription to the Pricing & Labor Software. The installation program will automatically install your first pricing update. You will automatically receive updated prices every four (4) months. Two additional pricing updates will be shipped during the FREE 1-Year period.

After the first year your renewal subscription to the Pricing & Labor software is only \$295 per year. An invoice will automatically be sent to you when your FREE subscription is about to expire.

INTRODUCTION

The Pricing & Labor Software is a subscription service program designed to aid electrical contractors in the preparation of cost estimates. The program contains a database of both material cost (Trade Prices) and labor units. The program also allows the user to estimate small jobs or change orders on the built-in pricing and recap sheets.

AUTOMATIC PRICE UPDATES

Subscribers to the Pricing & Labor Software receive three price updates per year. The prices are updated via diskette in January, May, and September.

NEW ITEMS OR DELETIONS

In addition to updated prices three times per year, the database is periodically updated with information about new or deleted items by the manufacturers.

LINK TO ESTIMATING PROGRAM

The Pricing & Labor Software also links to the Double Click Electrical Estimating Program.

PRICING INFORMATION

The prices in this program are TRADE PRICES and are the published prices of various manufacturers. Trade prices are updated by the manufactures every 9 - 18 months. Each pricing screen in the program lists the manufacturer, price, and the date the prices were published.

INDUSTRY STANDARD PRICING

It has long been the standard of the industry to use these TRADE PRICES for the basis of calculating your actual cost. We did not create this standard, it simply evolved over time. While this may not be the best system, it is the most widely used and accurate system we have found.

SUPPLIER DISCOUNTS

Your local electrical supplier can provide you with a list of discounts to be used with these trade prices. These discounts can be entered in the program thus providing you with adjusted cost. When you receive your program, typical discounts have already been entered in the database. You may change these discounts to more accurately reflect your market conditions.

ADJUSTED PRICING LEVELS

We highly recommend you change the discount levels to reflect your adjusted pricing levels. This way when the trade prices are updated, the adjusted prices will reflect these changes.

USER PRICING

The Pricing & Labor Software also allows the user to enter his own price for any material item. If you enter user pricing, you will have the enormous task of updating you own prices. We highly recommend using the adjusted pricing levels.

BID LEVEL PRICING

It is important to understand that bidding work at today's actual cost can result in loss of profits. If you bid at your cost these prices may change prior to purchasing the materials. It was with this thought in mind that we created the database of discount levels in the program. The adjusted prices in this program should be somewhat higher than your actual cost. Please check these discounts with your supplier.

LABOR UNITS INFORMATION

The labor units in the program are from the "Electrical Contractors Labor Units Manual" published by Durand & Associates. These labor units were compiled over the past 30 years using actual job cost data from various electrical contractors.

COMPETITIVE LABOR UNITS

The labor units in this program are competitive. Meaning they are more realistic than labor units found in the NECA or R.S. MEANS manuals. We consider these labor units to be Bid-Level Competitive.

ADJUSTED LABOR UNITS

When you receive your program, a -10% adjustment factor has been entered in the labor adjustment column. You may change these adjustment factors to more accurately reflect your market conditions.

USER LABOR UNITS

This program also allows the user to enter his own labor unit for any material item.

BID LEVEL LABOR

It is important to understand bidding work with excessively low labor units can result in loss of profits. The adjusted labor units in this program should be somewhat higher than your actual labor. Please check these adjustments against your past productivity levels .

ABOUT THIS PROGRAM

The Pricing & Labor Program is actually two (2) programs in one. First is the DATABASE mode, and second is the ESTIMATING mode.

DATABASE MODE

The DATABASE mode is used to maintain your database and lookup prices and labor units. When using the DATABASE mode, you may lookup any price, change any discount, or enter your own prices. Any changes you make to the database can be saved to the hard disk. In this mode you may also print out any page from the database. There are over 900 pages of pricing and labor information in the database.

ESTIMATING MODE

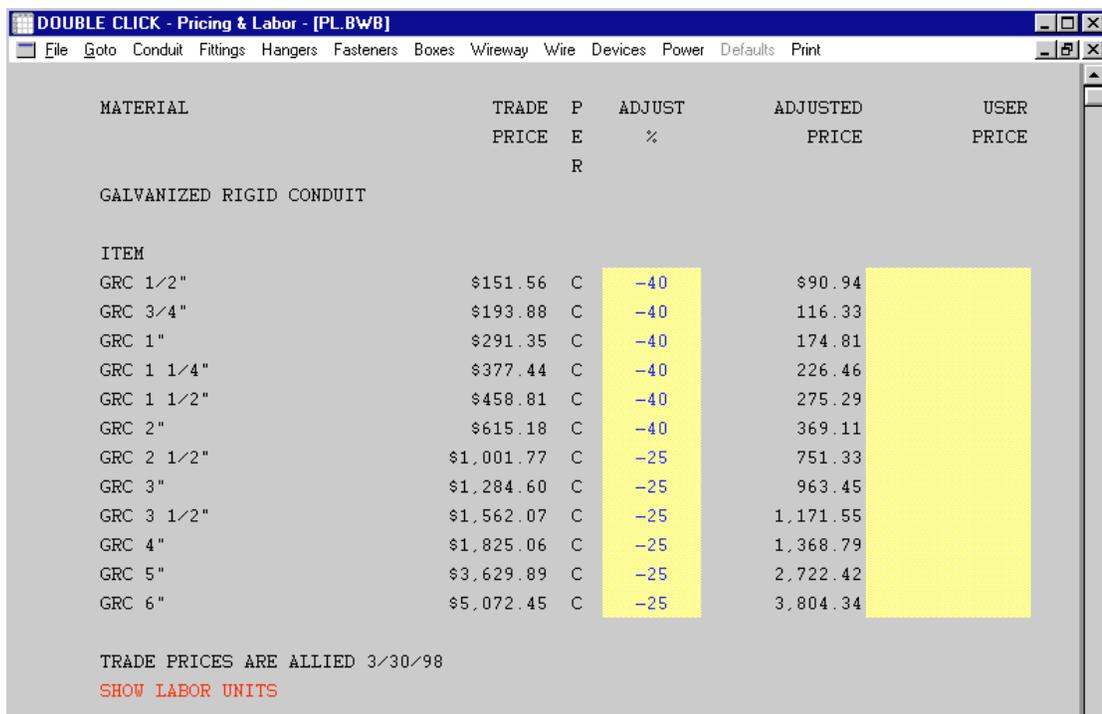
In the ESTIMATING mode you can use the pricing sheet with both prices and labor units, use a recap sheet to summarize your selling price, and printout an estimate. This ESTIMATING mode is ideal for change orders or estimating small jobs. If you need to prepare large estimates, you should use the Double Click Electrical Estimating Program.

STARTING THE PROGRAM

Double click on the PL icon located on the desktop. This will start your Pricing & Labor Software. The program automatically loads the default file PL.BWB at start up. When you receive your program, this file is blank.

Program/File loading times: Pentium I - 133 MHZ = 12 seconds
 Pentium II - 300 MHZ = 5 seconds

Once the programs starts, it will display the database screen for rigid conduit.



MATERIAL	TRADE PRICE	P	ADJUST %	ADJUSTED PRICE	USER PRICE
GALVANIZED RIGID CONDUIT					
ITEM					
GRC 1/2"	\$151.56	C	-40	\$90.94	
GRC 3/4"	\$193.88	C	-40	116.33	
GRC 1"	\$291.35	C	-40	174.81	
GRC 1 1/4"	\$377.44	C	-40	226.46	
GRC 1 1/2"	\$458.81	C	-40	275.29	
GRC 2"	\$615.18	C	-40	369.11	
GRC 2 1/2"	\$1,001.77	C	-25	751.33	
GRC 3"	\$1,284.60	C	-25	963.45	
GRC 3 1/2"	\$1,562.07	C	-25	1,171.55	
GRC 4"	\$1,825.06	C	-25	1,368.79	
GRC 5"	\$3,629.89	C	-25	2,722.42	
GRC 6"	\$5,072.45	C	-25	3,804.34	

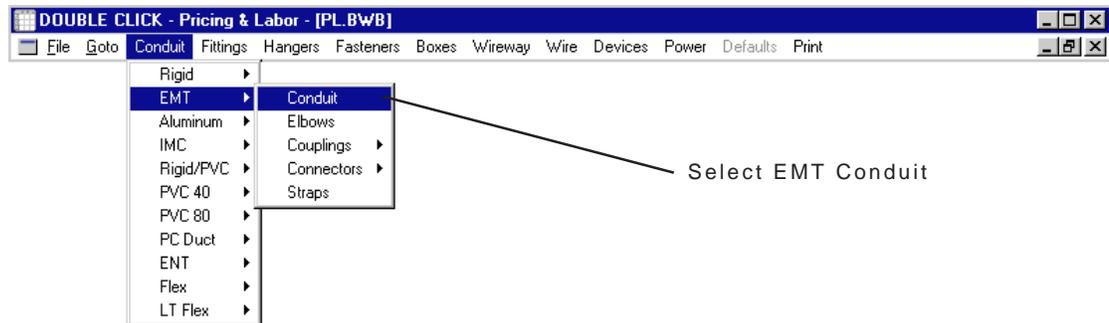
TRADE PRICES ARE ALLIED 3/30/98
SHOW LABOR UNITS

WORKING IN THE DATABASE MODE

In the DATABASE mode you may do the following:

1. Lookup material prices and labor units.
2. Change adjustments for material prices or labor units.
3. Enter user data for material prices and labor units.
4. Save changes to database.
5. Print database sheet.

Using the mouse select EMT conduit from the database menu.



The screen now displays EMT database information.

CHANGING DATABASE ADJUSTMENT

You may now change the adjustments by selecting a cell and typing in a new number.

DOUBLE CLICK - Pricing & Labor - [PL.BWB]

File Goto Conduit Fittings Hangers Fasteners Boxes Wireway Wire Devices Power Defaults Print

MATERIAL	TRADE PRICE	P	ADJUST %	USER PRICE
EMT CONDUIT				
ITEM				
EMT 1/2"	\$39.62	C	-40	\$23.77
EMT 3/4"	\$67.29	C	-40	40.37
EMT 1"	\$114.94	C	-40	68.96
EMT 1 1/4"	\$160.52	C	-40	96.31
EMT 1 1/2"	\$192.39	C	-40	115.43
EMT 2"	\$238.68	C	-40	143.21
EMT 2 1/2"	\$487.63	C	-25	365.72
EMT 3"	\$641.24	C	-25	480.93
EMT 3 1/2"	\$889.92	C	-25	667.44
EMT 4"	\$1,000.20	C	-25	750.15

TRADE PRICES ARE ALLIED
SHOW LABOR UNITS

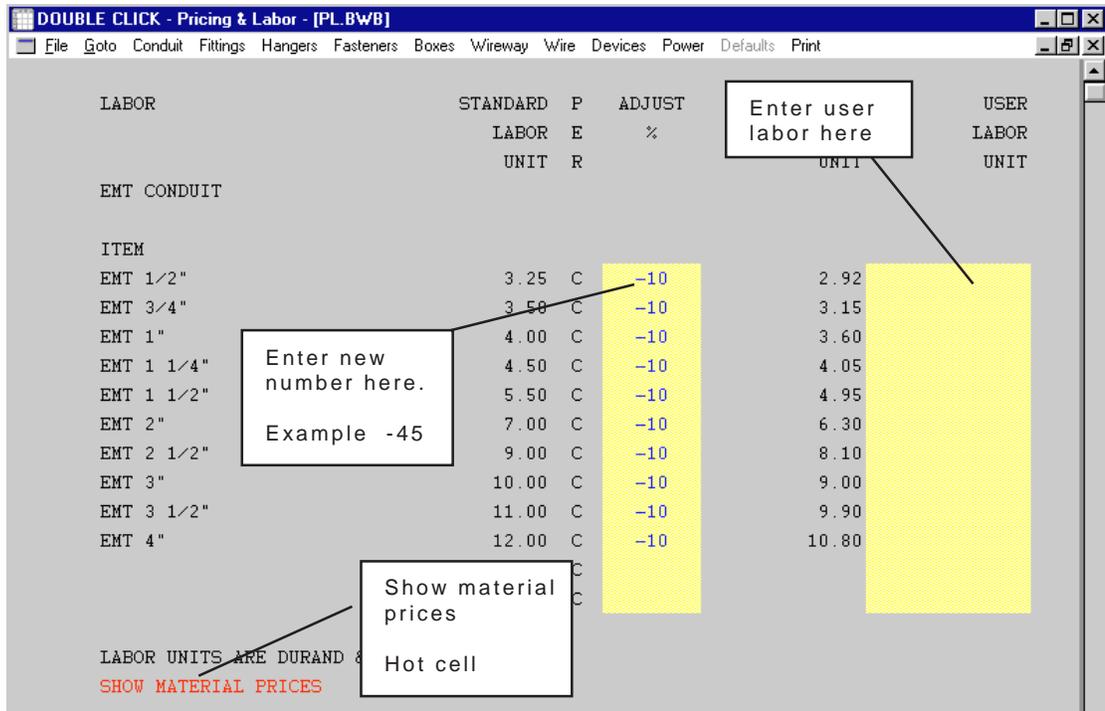
Enter user pricing here

Enter new number here.
Example -45

Show labor units
Hot cell

To view labor units double click on the Show Labor Units hot cell.

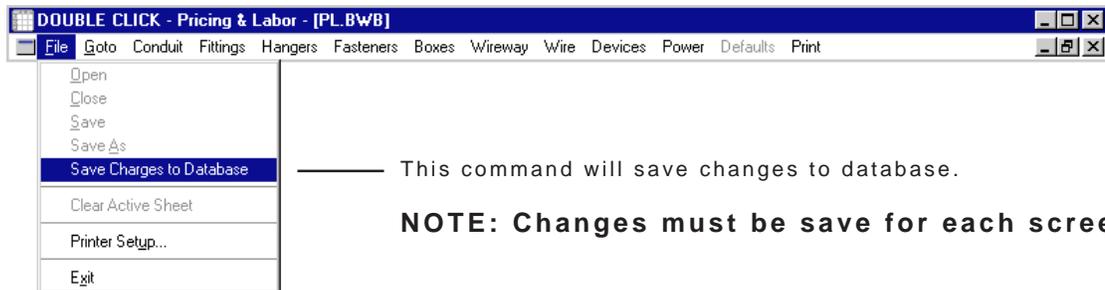
Once the labor units are displayed, you may change the adjustments.



To return to the material prices double click on the Show Material Prices hot cell.

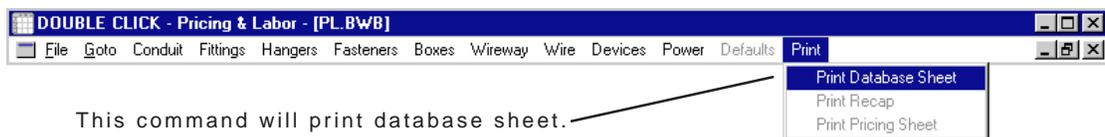
SAVING CHANGES TO DATABASE

If you make changes to the database screen, you must save these changes to the database file. Using the mouse, select the File and Save changes to Database command.



PRINTING DATABASE SHEET

If you want, you may print the database sheet by using the mouse to select the Print and Print Database Sheet command.



PRINTOUT OF DATABASE SHEET

MATERIAL	TRADE PRICE	P E R	ADJUST %	ADJUSTED PRICE	USER PRICE
EMT CONDUIT					
ITEM					
EMT 1/2"	\$39.62	C	-40	\$23.77	
EMT 3/4"	\$67.29	C	-40	40.37	
EMT 1"	\$114.94	C	-40	68.96	
EMT 1 1/4"	\$160.52	C	-40	96.31	
EMT 1 1/2"	\$192.39	C	-40	115.43	
EMT 2"	\$238.68	C	-40	143.21	
EMT 2 1/2"	\$487.63	C	-25	365.72	
EMT 3"	\$641.24	C	-25	480.93	
EMT 3 1/2"	\$889.92	C	-25	667.44	
EMT 4"	\$1,000.20	C	-25	750.15	
		C			
		C			
TRADE PRICES ARE ALLIED 3/30/98					
LABOR	STANDARD LABOR UNIT	P E R	ADJUST %	ADJUSTED LABOR UNIT	USER LABOR UNIT
EMT CONDUIT					
ITEM					
EMT 1/2"	3.25	C	-10	2.92	
EMT 3/4"	3.50	C	-10	3.15	
EMT 1"	4.00	C	-10	3.60	
EMT 1 1/4"	4.50	C	-10	4.05	
EMT 1 1/2"	5.50	C	-10	4.95	
EMT 2"	7.00	C	-10	6.30	
EMT 2 1/2"	9.00	C	-10	8.10	
EMT 3"	10.00	C	-10	9.00	
EMT 3 1/2"	11.00	C	-10	9.90	
EMT 4"	12.00	C	-10	10.80	
		C			
		C			
LABOR UNITS ARE DURAND & ASSOCIATES 2/1/98					

WORKING IN THE ESTIMATING MODE

In the ESTIMATING mode you may do the following.

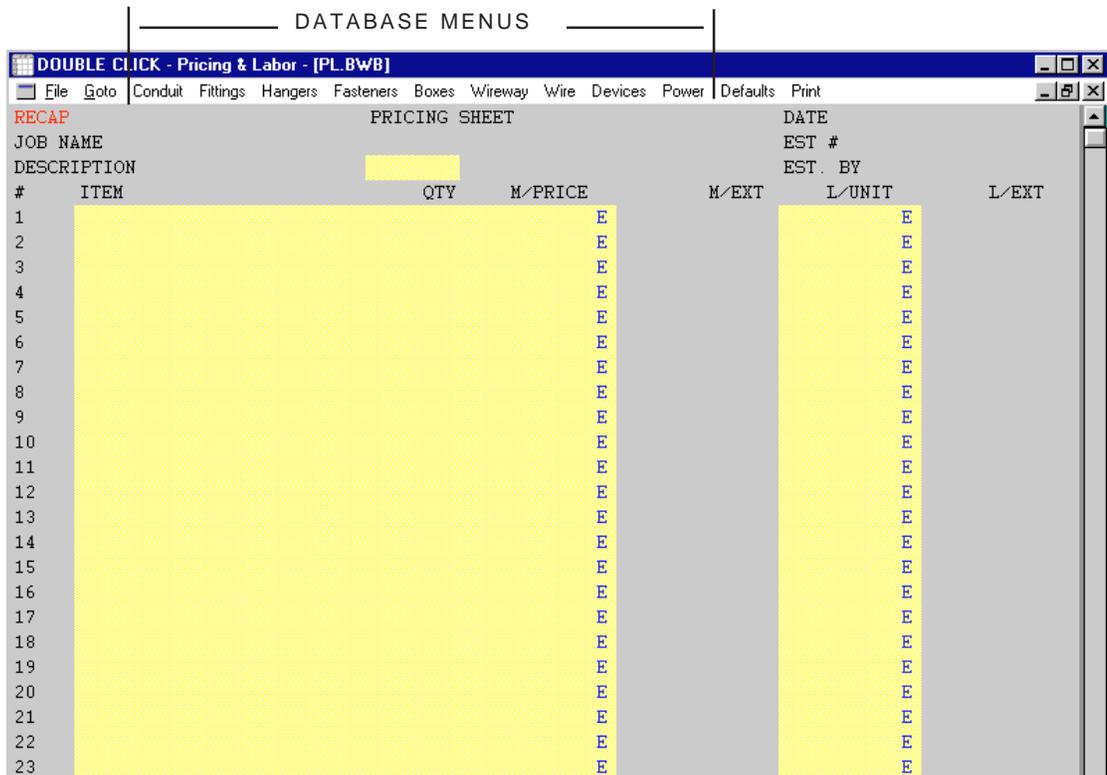
1. Use the pricing sheet.
2. Import item from database to pricing sheet.
3. Print pricing sheet.
4. Use recap sheet.
5. Print recap sheet.

Using the mouse select Goto and Pricing Sheet commands from the pulldown menu.



PRICING SHEET

Once the pricing sheet is displayed, you may use the database menus to import items.



DATABASE MENU

Using the database menus you may select any material item in the database.

NOTE:
To use a database menu the active cell must be in the item column on the pricing or makeup sheet.

ACTIVE CELL IN ITEM COLUMN

DATABASE SCREEN

Once you have selected an item the following screen will appear.

MATERIAL	TRADE PRICE	P	ADJUST %	ADJUSTED PRICE	USER PRICE
GALVANIZED RIGID ELBOWS 36" RADIUS					
ITEM	ACTIVE				
GRC ELL 36R 2"	\$72.13	E	-25	\$54.10	
GRC ELL 36R 2 1/2"	\$98.87	E		74.15	
GRC ELL 36R 3"	\$130.15	E		97.61	
GRC ELL 36R 3 1/2"	\$169.51	E		127.13	
GRC ELL 36R 4"	\$189.86	E	-25	142.40	
GRC ELL 36R 5"	\$306.07	E	-25	229.55	
GRC ELL 36R 6"	\$336.27	E	-25	252.20	
		E			
		E			
		E			
		E			
		E			

TRADE PRICES ARE BASED ON CONDUIT & PIPE PRODUCTS 12/1/96

Double click on the first item and it will be imported into the pricing sheet.

RECAP		PRICING SHEET		DATE		
JOB NAME				EST #		
DESCRIPTION				EST. BY		
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	GRC ELL 36R 2"		\$72.13 E		0.85 E	
2			E		E	
3			E		E	
4			E		E	
5			E		E	
6			E		E	

Enter quantity here

You may now enter the quantity and the program will perform all extensions.

DEFAULTS MENU

DOUBLE CLICK - Pricing & Labor - [PL.BWB]

File Goto Conduit Fittings Hangers Fasteners Boxes Wireway Wire Devices Power Defaults Print

You may also set pricing and labor levels from the pulldown menu.

You may also set the Cursor Right or Cursor Down defaults.

Active levels marked with a check mark.

- Trade Price
- Adjusted Price
- User Price
- Standard Labor
- Adjusted Labor
- User Labor
- Cursor Right
- Cursor Down

CURSOR RIGHT

If you set the cursor right default, the active cell will move one cell right after material has been transferred from database.

Before Transfer

RECAP		PRICING SHEET #1	
JOB NAME		SAMPLE	
DESCRIPTION		BRANCH CIRCUIT	
#	ITEM	QTY	M/PRICE
1			E
2			E
3			E
4			E

Active cell position before transfer

After Transfer

RECAP		PRICING SHEET #1	
JOB NAME		SAMPLE	
DESCRIPTION		BRANCH CIRCUIT	
#	ITEM	QTY	M/PRICE
1	GRC 1/2"		\$90.94 C
2			E
3			E
4			E

Active cell position after transfer

The cursor right default is ideal if you select one item at a time and wish to input the quantity after transferring data from the database.

If you plan to transfer more than one material item or you do not plan to input quantities after transferring data, you should use the cursor down default.

CURSOR DOWN

Before Transfer

RECAP		PRICING SHEET #1	
JOB NAME		SAMPLE	
DESCRIPTION		BRANCH CIRCUIT	
#	ITEM	QTY	M/PRICE
1			E
2			E
3			E
4			

Active cell position before transfer

After Transfer

RECAP		PRICING SHEET #1	
JOB NAME		SAMPLE	
DESCRIPTION		BRANCH CIRCUIT	
#	ITEM	QTY	M/PRICE
1	GRC 1/2"		\$90.94 C
2			E
3			E
4			

Active cell position after transfer

The cursor down position leaves the active cell in the item column so you can access the database menu without repositioning the cursor.

PRINT PRICING SHEET

If you want to print the pricing sheet, select Print and Print Pricing Sheet commands from the pulldown menu.



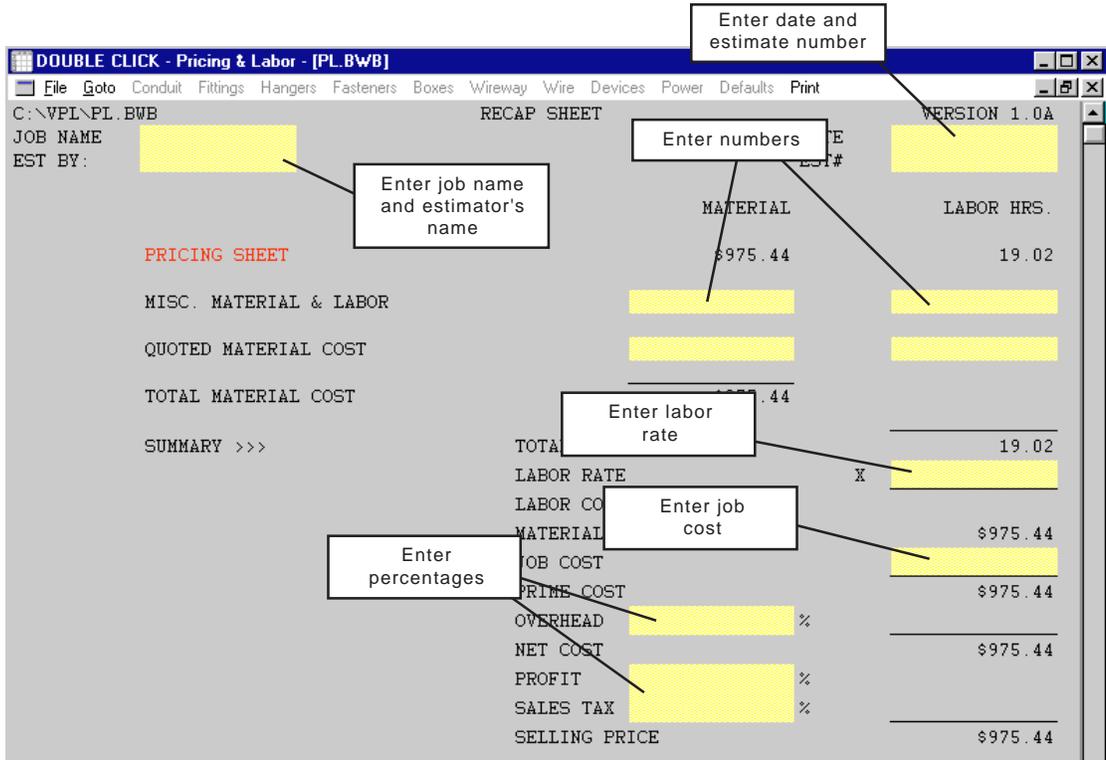
PRINTOUT OF PRICING SHEET

PRICING SHEET				DATE		
JOB NAME				EST #		
DESCRIPTION				EST. BY		
#	ITEM	QTY	M/PRICE	M/EXT	L/UNIT	L/EXT
1	GRC ELL 36R 2"	12	\$72.13E	\$865.56	0.85E	10.20
2	TOGGLE BOLT 3/16" X 6"	26	\$39.80C	\$10.35	7.00C	1.82
3	SQ411 2.1D COMBO	5	\$349.29C	\$17.46	25.00C	1.25
4	SINGLE REC 15A BR 5015	23	\$356.80C	\$82.06	25.00C	5.75
5			E		E	
6			E		E	
7			E		E	
8			E		E	
9			E		E	
10			E		E	
11			E		E	
12			E		E	
13			E		E	
14			E		E	
15			E		E	
16			E		E	
17			E		E	
18			E		E	
19			E		E	
20			E		E	
21			E		E	
22			E		E	
23			E		E	
24			E		E	
25			E		E	
26			E		E	
27			E		E	
28			E		E	
29			E		E	
30			E		E	
31			E		E	
32			E		E	
33			E		E	
34			E		E	
35			E		E	
36			E		E	
37			E		E	
38			E		E	
39			E		E	
40			E		E	
41			E		E	
42			E		E	
43			E		E	
44			E		E	
SUBTOTAL				\$975.44		19.02
MULTIPLIER (DEFAULT=1)				X 1.00	X	1.00
SHEET TOTALS FORWARDED TO >>> RECAP				\$975.44		19.02

Using the mouse select Goto and Recap Sheet from the pulldown menu.



RECAP SHEET



PRINT RECAP SHEET

If you want to print the recap sheet, select Print and Print Recap commands from the pulldown menu.



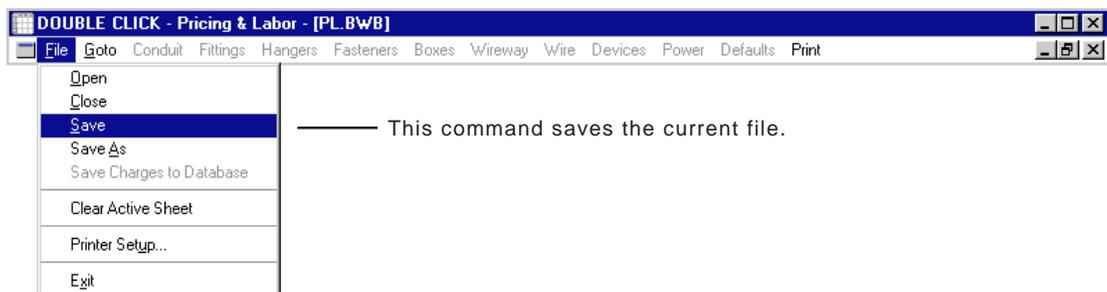
PRINTOUT OF RECAP SHEET

C:\VPL\PL.BWB		RECAP SHEET	VERSION 1.0A
JOB NAME	SAMBLE	DATE	9-15-98
EST BY:	TED	EST#	123
		MATERIAL	LABOR HRS.
PRICING SHEET		\$975.44	19.02
MISC. MATERIAL & LABOR		\$100.00	8.00
QUOTED MATERIAL COST			
TOTAL MATERIAL COST		<u>\$1,075.44</u>	
SUMMARY >>>	TOTAL LABOR HOURS		<u>27.02</u>
	LABOR RATE	X	<u>\$45.00</u>
	LABOR COST		\$1,215.90
	MATERIAL COST		\$1,075.44
	JOB COST		<u>\$50.00</u>
	PRIME COST		\$2,341.34
	OVERHEAD	25 %	<u>\$585.33</u>
	NET COST		\$2,926.67
	PROFIT	10 %	\$292.67
	SALES TAX	6 %	<u>\$64.53</u>
	SELLING PRICE		\$3,283.86

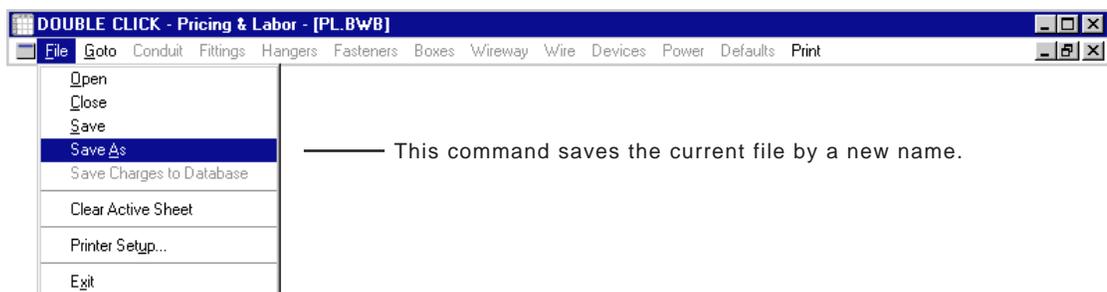
CLEAR ACTIVE SHEET



FILE SAVE



FILE SAVEAS



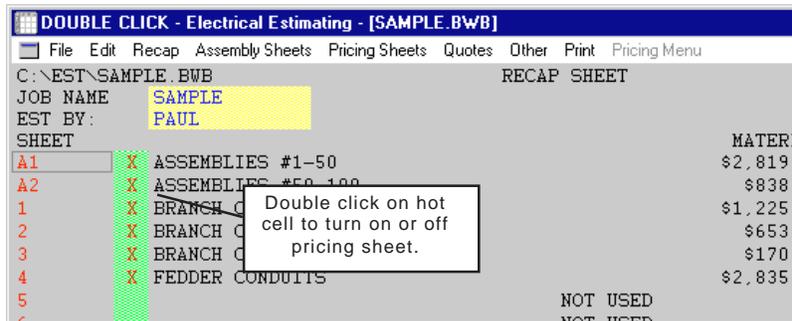
MATERIAL LIST MODULE

The Material List Module is used to compile a material list from an estimate. This module will count all materials on pricing sheets and within assembly makeups and provide a printout of material.

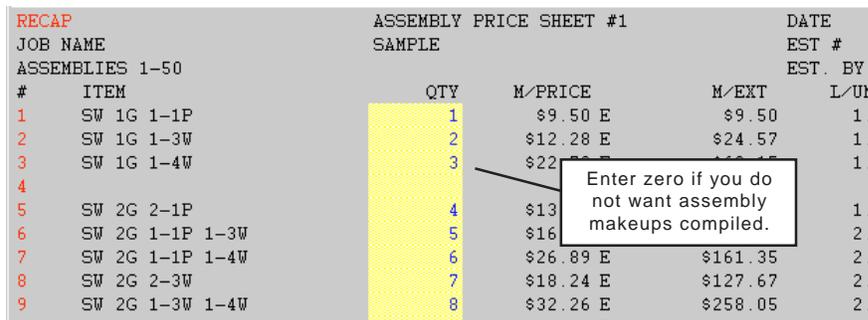
EXPORTING ESTIMATE FILES TO MATERIAL LIST MODULE

Prior to using the material list module, you must first export the files from the Double Click Electrical Estimating Program.

- STEP 1. Start the estimating program.
- STEP 2. Open the estimating file you wish to export.
- STEP 3. The Material List Module will compile only those pricing sheets used in your estimate. If a pricing sheet is marked with an "X" on the recap sheet, the Material List Module will compile all material on that pricing sheet. If a pricing sheet is not marked with an "X" on the recap sheet, the Material List Module will ignore that pricing sheet. If you have any pricing sheets you do want compiled, turn those sheets off on the recap sheet.



- STEP 4. The Material List Module will also compile only those assembly makeups which have a quantity greater than zero. If you do not wish to compile an assembly makeup, enter a zero quantity for that assembly.



- STEP 5. The Material List Module will also compile only those items on a pricing sheet which have a quantity greater than zero. If you do not want a specific item on a pricing sheet to be compiled, enter a zero quantity for that item.

RECAP		PRICING SHEET #1	
JOB NAME		SAMPLE	
DESCRIPTION		BRANCH CIRCUIT POWER	
#	ITEM	QTY	M/PRICE
1	EMT 1/2"	1,200	\$23.77 C
2	EMT 3/4"	450	\$40.37 C
3	EMT 1"	130	\$68
4	EMT COUP SS DC 1/2"	140	\$22
5	EMT COUP SS DC 3/4"	52	\$36
6	EMT COUP SS DC 1"	16	\$59
7	EMT CONN SS DC 1/2"	46	\$21.30 C
8	EMT CONN SS DC 3/4"	20	\$33.69 C

Enter zero if you do not want a specific item compiled.

- STEP 6. Using the mouse, select the File and Export MAT Files commands from the pulldown menu.

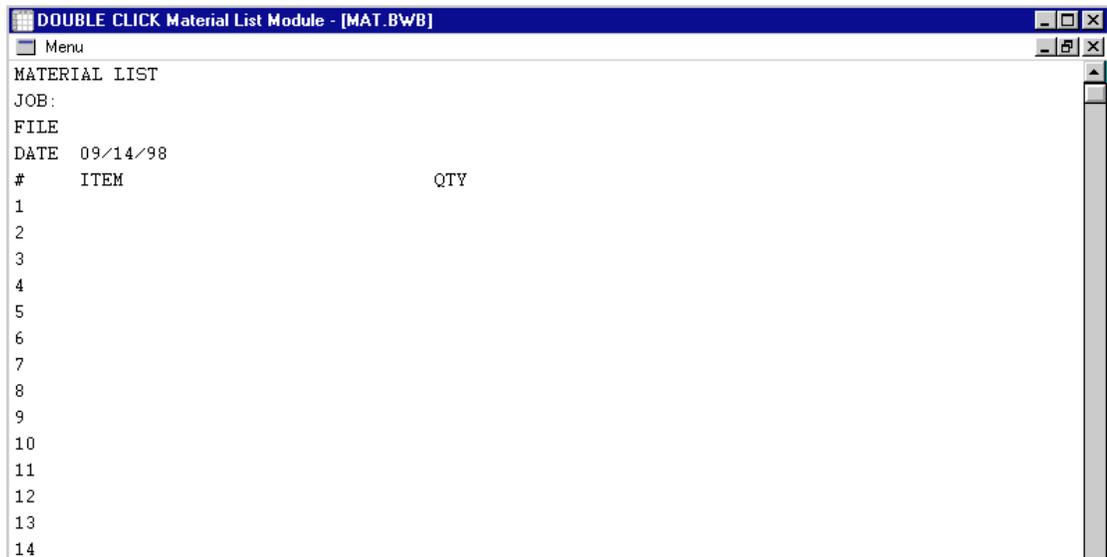


After exporting files, exit the Double Click Estimating Program.

- STEP 7.

STARTING THE MATERIAL LIST MODULE

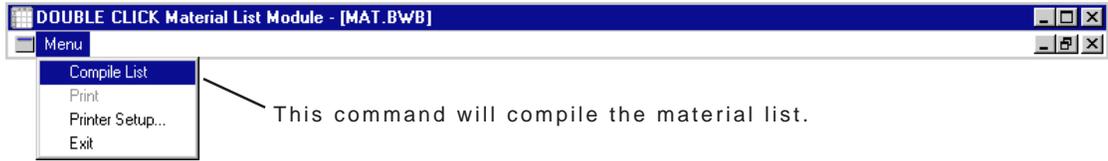
To start the Material List Module double click on the MAT icon. Once the program has loaded, the following screen will be displayed.



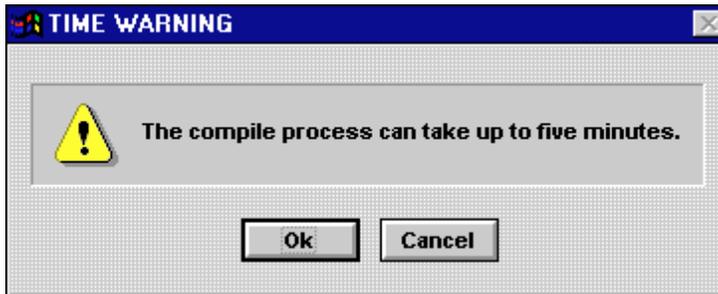
STEP 8.

COMPILING A MATERIAL LIST

Using the mouse, select the Menu and Compile List commands from the pulldown menu.



The compile process can take up to five minutes.



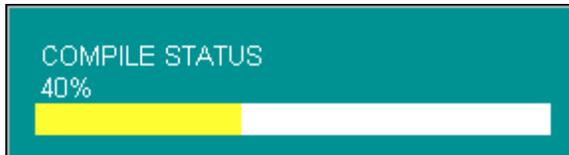
If you wish to proceed, click OK.

SAMPLE COMPILE TIMES

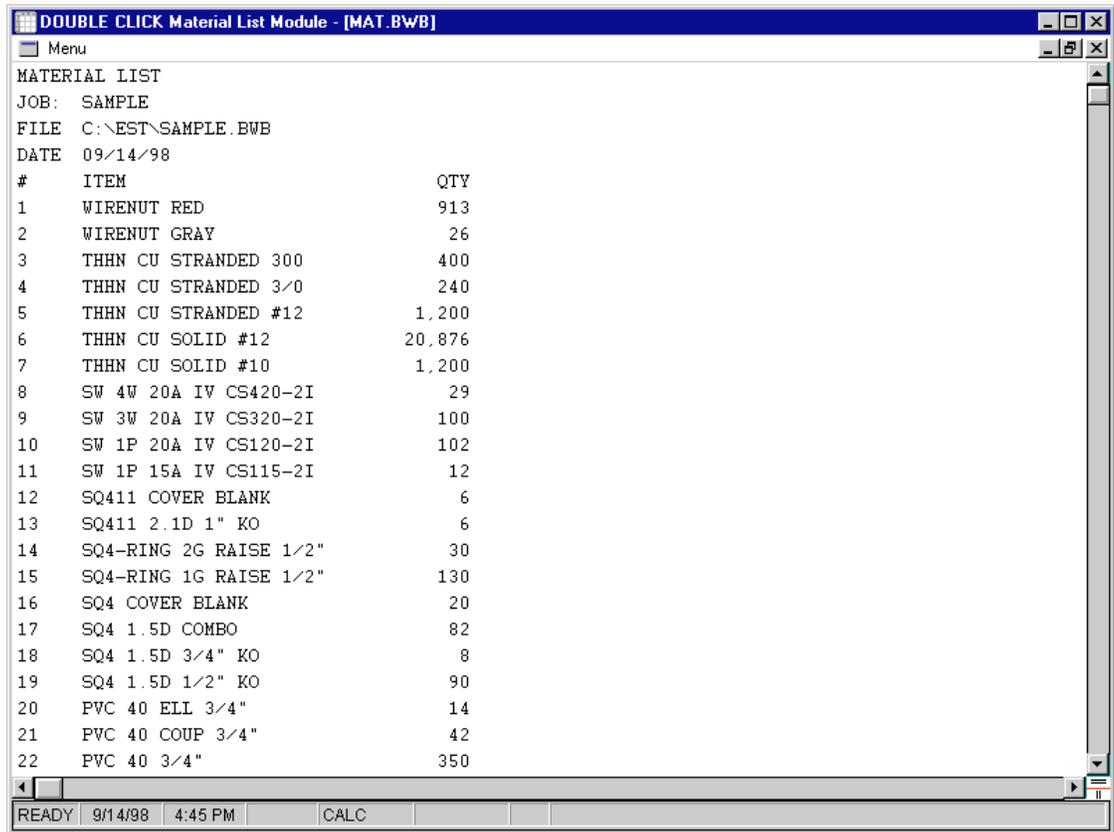
Our tests indicate the following compile times.

Pentium I - 133 MHZ = 5 minutes 68 seconds
Pentium II - 300 MHZ = 2 minutes 50 seconds

During the compile process a status bar will display progress.



Once the compile process is complete, the material list will be displayed on your screen.



The screenshot shows a window titled "DOUBLE CLICK Material List Module - [MAT.BWB]". Inside the window, there is a menu bar with "Menu" and a scroll bar on the right. The main area displays a material list with the following data:

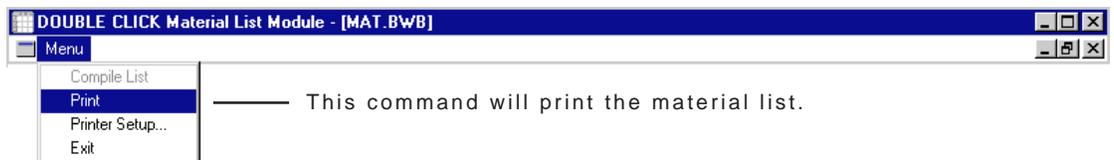
#	ITEM	QTY
1	WIRENUT RED	913
2	WIRENUT GRAY	26
3	THHN CU STRANDED 300	400
4	THHN CU STRANDED 3/0	240
5	THHN CU STRANDED #12	1,200
6	THHN CU SOLID #12	20,876
7	THHN CU SOLID #10	1,200
8	SW 4W 20A IV CS420-2I	29
9	SW 3W 20A IV CS320-2I	100
10	SW 1P 20A IV CS120-2I	102
11	SW 1P 15A IV CS115-2I	12
12	SQ411 COVER BLANK	6
13	SQ411 2.1D 1" KO	6
14	SQ4-RING 2G RAISE 1/2"	30
15	SQ4-RING 1G RAISE 1/2"	130
16	SQ4 COVER BLANK	20
17	SQ4 1.5D COMBO	82
18	SQ4 1.5D 3/4" KO	8
19	SQ4 1.5D 1/2" KO	90
20	PVC 40 ELL 3/4"	14
21	PVC 40 COUP 3/4"	42
22	PVC 40 3/4"	350

At the bottom of the window, there is a status bar showing "READY", "9/14/98", "4:45 PM", and "CALC".

STEP 9.

PRINTING MATERIAL LIST

To print the material list select the Menu and Print commands from the pulldown menu.



SAMPLE PRINTOUTS

Material List Printout (from Material List Module)

MATERIAL LIST		PAGE 1
JOB:	UNTITLED	
FILE	C:\EST\MAT2.BWB	
DATE	09/01/98	
#	ITEM	QTY
1	WIRENUT RED	913
2	WIRENUT GRAY	26
3	THHN CU STRANDED 300	400
4	THHN CU STRANDED 3/0	240
5	THHN CU STRANDED #12	1,200
6	THHN CU SOLID #12	20,876
7	THHN CU SOLID #10	1,200
8	SW 4W 20A IV CS420-2I	29
9	SW 3W 20A IV CS320-2I	100
10	SW 1P 20A IV CS120-2I	102
11	SW 1P 15A IV CS115-2I	12
12	SQ411 COVER BLANK	6
13	SQ411 2.1D 1" KO	6
14	SQ4-RING 2G RAISE 1/2"	30
15	SQ4-RING 1G RAISE 1/2"	130
16	SQ4 COVER BLANK	20
17	SQ4 1.5D COMBO	82
18	SQ4 1.5D 3/4" KO	8
19	SQ4 1.5D 1/2" KO	90
20	PVC 40 ELL 3/4"	14
21	PVC 40 COUP 3/4"	42
22	PVC 40 3/4"	350
23	PLATE SWITCH 3G IV	55
24	PLATE SWITCH 2G IV	30
25	PLATE SWITCH 1G IV	18
26	PLATE DUPLEX 2G IV	32
27	PLATE DUPLEX 1G IV	80
28	LOCKNUT 3"	4
29	LOCKNUT 2"	4
30	GRC ELL 3"	3
31	GRC ELL 2"	2
32	GRC COUP 3"	10
33	GRC COUP 2"	6
34	GRC 3"	120
35	GRC 2"	60
36	GANG RING RAISE 3/4" 3G	55
37	GANG BOX 1 5/8" DEEP 3G	55
38	FLEX STEEL 1/2"	40
39	FLEX CONN SQ DC 1/2"	20
40	EMT STRAP 1H 3/4"	267
41	EMT STRAP 1H 1/2"	823
42	EMT STRAP 1H 1"	41
43	EMT COUP SS DC 3/4"	112
44	EMT COUP SS DC 1/2"	357
45	EMT COUP SS DC 1"	24
46	EMT CONN SS DC 3/4"	100
47	EMT CONN SS DC 1/2"	342
48	EMT CONN SS DC 1"	10
49	EMT 3/4"	1,224
50	EMT 1/2"	4,057

MATERIAL LIST		PAGE 2
JOB:	UNTITLED	
FILE	C:\EST\MAT2.BWB	
DATE	09/01/98	
#	ITEM	QTY
51	EMT 1"	190
52	DUPLEX 20A IV 5342-I	50
53	DUPLEX 15A IV 5320-ICP	44
54	DUPLEX 15A IV 5242-I	50
55	BUSHING PLASTIC 3"	2
56	BUSHING PLASTIC 2"	2
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		
79		
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
97		
98		
99		
100		

BACKING UP YOUR FILES

There is no substitute for backing up your files. We recommend a good removable media backup system with backups performed weekly.

WHAT TO BACKUP

The following folders need to be backed up:



The following folders do not need to be backed up. This information is on the original disks and does not change in your computer.



BACKING UP USER PRICE FILES TO FLOPPY

The user price files contain the adjustments you make in your database. These files may be backed up to a floppy disk using Windows.

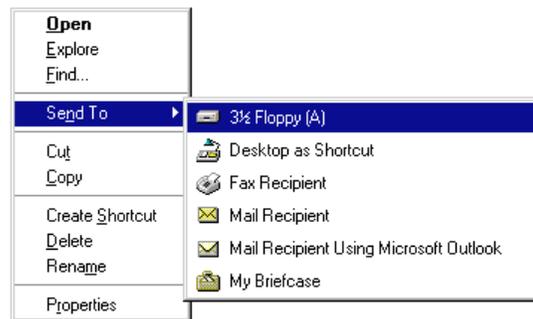
STEP 1 Insert a blank floppy disk in your A:Drive.

STEP 2 Right click on the UPRICE folder.

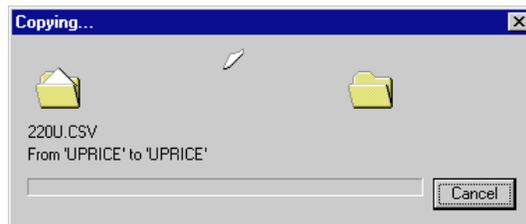


STEP 3 Select Send To and 3 1/2 Floppy commands from the menu.

NOTE: Backing up the UPRICE folder to a floppy takes 20 minutes.



STEP 4 Wait 20-25 minutes for backup to complete.



Other files are too large to backup onto floppy disk.

ABBREVIATIONS

These abbreviations are used in the material database.

1.5D	1 1/2" DEEP
1.7D	1 7/8" DEEP
10K	10,000 RMS
1C	1-CABLE
1D	1" DEEP
1G	1-GANG
1H	1 HOLE TYPE
1PH	SINGLE PHASE
2.1D	2 1/8" DEEP
2.5D	2 1/2" DEEP
2.7D	2 7/8" DEEP
22K	22,000 RMS
24R	24" RADIUS
2C	2-CABLE
2G	2-GANG
2GT	2-GANG TANDEM TYPE
2H	2 HOLE TYPE
2S/2U	2-SHIELDED 2-UNSHIELDED
3.5D	3 1/2" DEEP
36R	36" RADIUS
3D	3" DEEP
3G	3-GANG
3PH	THREE PHASE
48R	48" RADIUS
4G	4-GANG
4M	EXPANSION COUPLING WITH 4" MOVEMENT
8M	EXPANSION COUPLING WITH 8" MOVEMENT
AL	ALUMINUM
ALM	ALMOND
AM	MAIN BREAKER AMPS
ARC	ALUMINUM RIGID CONDUIT
ASTRO	24 HOUR WITH ASTRONOMIC DIAL
ATLA	TYPE OF LIQUID TIGHT FLEXIBLE CONDUIT
BKR	BREAKER

BM	BEAM CLAMP
BOND JUMPER	BONDING JUMPER FOR EXPANSION COUPLING
BR	BROWN
C	STYLE OF CONDUIT BODY
C-ADAPTER	CONDUIT ADAPTER
C-BODY	CONDUIT BODIE
C-STARTER	COMBINATION DISCONNECT MOTOR STARTER
C-STUD	CONCRETE STUD ANCHORS RED HEAD
CB	CIRCUIT BREAKER PLUG-IN TYPE
CB2	CIRCUIT BREAKER HALF SIZE
CBB	CIRCUIT BREAKER BOLT-ON TYPE
CBQT	CIRCUIT BREAKER QUAD TANDEM
CBSN	CIRCUIT BREAKER SWITCHED NEUTRAL
CBT	CIRCUIT BREAKER TANDEM
CFM	CONDUIT FIXED MOUNT
CI	CUBIC INCH
CIR	CIRCUIT
CL2	TYPE OF COAX CABLE
CN	CONNECTOR
COMBO	COMBINATION 1/2" & 3/4" KNOCKOUTS
CONN	CONNECTOR
COUP	COUPLING
CP	COMPRESSION TYPE
CP-I	COMPRESSION TYPE INSULATED
CSM	CONDUIT SWIVEL MOUNT
CVR	COVER
D-CLOCK	TIME CLOCK DIGITAL
DBL	DOUBLE
DC	DIE CAST TYPE
DIM	DIMMER
DIST	DISTRIBUTION
E	STYLE OF CONDUIT BODY
E-COUP	EXTERNAL COUPLING
E-ELL	EXTERNAL ELL
EF	TYPE OF LIQUID TIGHT FLEXIBLE CONDUIT
ELL	ELBOW 90 DEGREE STANDARD RADIUS UNLESS MARKED
ELL 30	ELBOW 30 DEGREE
ELL 45	ELBOW 45 DEGREE

EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EXPAN	EXPANSION COUPLING
EXT	EXTENSION
EY	STYLE OF EXPLOSION PROOF SEALOFF
EYA	STYLE OF EXPLOSION PROOF SEALOFF
EYD	STYLE OF EXPLOSION PROOF SEALOFF
EYDM	STYLE OF EXPLOSION PROOF SEALOFF
EZS	STYLE OF EXPLOSION PROOF SEALOFF
FE	FEMALE TYPE
FLEX AL	FLEXIBLE ALUMINUM CONDUIT
FLEX COUP	FLEXIBLE COUPLING
FLEX STEEL	FLEXIBLE STEEL CONDUIT
FSCVR	FLUSH SCREW COVER
FU	FUSED
FWS	FLEXIBLE WIRING SYSTEM
GD	GENERAL DUTY
GND	GROUNDING TYPE
GRC	GALVANIZED RIGID CONDUIT
GRC	GALVANIZED RIGID CONDUIT
GRC/PVC	GALVANIZED RIGID CONDUIT PVC COATED
GY	GRAY
HCC	HINGE CLAMP COVER
HD	HEAVEY DUTY
HEX	HEX HEAD
HGR	HANGER
HOM	HOMLINE BY SQUARE D
HV	HIGH VOLTAGE
I-COUP	INTERNAL COUPLING
I-ELL	INTERAL ELBOW
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INSL	INSULATED TYPE
INTER	INTERMEDIATE
IR	IRON TYPE
IV	IVORY
J	FUSE UL CLASS J
J-TD	FUSE UL CLASS J TIME DELAY

K5	FUSE UL CLASS K5
KO	KNOCKOUT
KV	KILOVOLT
L	FUSE UL CLASS L
LA	TYPE OF LIQUID TIGHT FLEXIBLE CONDUIT
LB	STYLE OF CONDUIT BODY
LC1	LOADCENTER SINGLE PHASE
LC3	LOADCENTER THREE PHASE
LEV	LEVITON BRAND NAME
LL	STYLE OF CONDUIT BODY
LR	STYLE OF CONDUIT BODY
LRL	STYLE OF CONDUIT BODY
LT	TYPE OF LIQUID TIGHT FLEXIBLE CONDUIT
LTFLEX	FLEXIBLE CONDUIT LIQUID TIGHT
LVC	LOW VOLTAGE CABLE
LVPC	LOW VOLTAGE PLENUM CABLE
LVTC	LOW VOLTAGE TELEPHONE CABLE
M-STARTER	MOTOR STARTER MANUAL TYPE
MA	MALE TYPE
MB	WITH MAIN BREAKER
METAL-I	METAL INSULATED TYPE
ML	METER MAIN/LOADCENTER RINGLESS SURFACE/SEMIFLUSH M
ML	MAIN LUG ONLY FOR LAODCENTERS
MLO	MAIN LUG ONLY
MM	METER MAIN SURFACE/SEMIFLUSH MOUNT
MP	METER MAIN/LOADCENTER SURFACE/SEMIFLUSH MOUNT
MR	METER MAIN RINGLESS SURFACE/SEMIFLUSH MOUNT
MS	METER MAIN SURFACE MOUNT ONLY
MTD	MOUNTED
N1	NEMA 1
N12	NEMA 12 OR 13
N3	NEMA 3R
N3R	NEMA 3R
N7	NEMA 7 OR 9
NF	NON-FUSED
NM-B	NM-B TYPE OF ROMEX
NS	NON-SHIELDED
OCT	OCTAGON

OR	ORANGE
OS	OVERALL SHIELD
PAN	PANHEAD
PAR	PARALLEL
PB	PUSH BUTTON TYPE
PB1	PANELBOARD SINGLE PHASE 240V
PB3	PANELBOARD THREE PHASE 240V
PB3H	PANELBOARD THREE PHASE 480V
PBOX	PLASTIC OUTLET BOX
PCD	POWER & COMMUNICATIONS DUCT
PNL	PANEL
PVC 40	PVC CONDUIT SCHEDULE 40
PVC 80	PVC CONDUIT SCHEDULE 80
R-CLAMP	ROMEX CLAMP
RA	RIGHT ANGLE
RD	RED
RD BUSH	REDUCING BUSHING
RD WASH	REDUCING WASHER
REC	RECEPTACLE
RK1	FUSE UL CLASS RK1
RK5	FUSE UL CLASS RK5
RND	ROUND
SBOX	SWITCH BOX STEEL
SC	SCREW COVER TYPE
SCVR	SCREW COVER TYPE
SD	SINGLE DOOR
SD	SKIP-A-DAY TYPE
SEC	SERVICE ENTRANCE CABLE
SER	SERVICE
SG	SELF GROUNDING
SLB	SERVICE ENTRANCE LB
SM SCREWS	SHEET METAL CREWS
SQ	SQUEEZE TYPE
SQ-I	SQUEEZE TYPE INSULATED
SQ4	4" SQUARE BOX
SQ411	4 11/16" SQUARE BOX
SS	SET SREW TYPE
SS	STAINLESS STEEL

SS-I	SET SCREW TYPE INSULATED
SSD	SAFETY SWITCH DOUBLE THROW
SSW	SAFETY SWITCH
SSW	SAFETY SWITCH
STRAND	STRANDED
STRUT	UNISTRUT SUPPORT CHANNEL
STRUT	SUPPORT CHANNEL
STRUT BRACKET DOUBLE	UNISTRUT BRACKET DOUBLE STRUT RIGHT ANGLE
STRUT BRACKET SINGLE	UNISTRUT BRACKET SINGLE STRUT RIGHT ANGLE
STRUT CLAMP	UNISTRUT CONDUIT CLAMP SET SCREW TYPE
STRUT CLIP	UNISTRUT CONDUIT SUPPORT CLIP SPRING TYPE
STRUT S-NUTS	UNISTRUT SPRING NUTS
STRUT S-STUDS	UNISTRUT SPRING STUDS
STRUT STRAP	UNISTRUT CONDUIT STRAP 2-PIECE W/BOLT
SUPP	SUPPORT
SW	SWITCH
SW/REC	SWITCH & RECEPTACLE COMBINATION
SWPL	SWITCH & PILOT COMBINATION
SWSW	SWITCH & SWITCH COMBINATION
T	STYLE OF CONDUIT BODY
T-CLOCK	TIME CLOCK MECHANICAL
T-SCREW	TEK SCREW
TC	TILE COVER
TLM	TURN LOCK MOUNT
TOG	TOGGLE TYPE
TOMIC	SCREW-IN TYPE
TOMIC-I	SCREW-IN TYPE INSULATED
U-CARPET	UNDERCARPET
W/B	WITH BRACKET
W/BAR	WITH BAR HANGER
W/BKT	WITH MOUNTING BRACKET
W/N	WITH NAILS
WH	WHITE
WP	WEATHER PRROF
X	STYLE OF CONDUIT BODY
XF	DRY TRANSFORMER
XP	EXPLOSION PROOF

INDEX

Abbreviations	13-1
Active cell	7-4
Adjusted labor units	10-2
Adjusted pricing levels	10-2
Assembly make-up sheet	6-4
Assembly Menu	7-2
Assembly price sheet	6-3
Automatic price updates	10-1
Backing up your files	12-1
Bonding cost worksheet	6-10
Cell active	7-4
Changing database adjustments	10-4
Closing files	8-1
Cursor down	7-7
Cursor right	7-6
Data entry	6-1
Data import screen	6-16
Data Warning	9-1
Database Menu	7-4
Database Mode	10-3
Database screen	7-4
Default Menu	7-5
Default Menu	7-6
Deleting files	8-4
Edit Menu	7-1
Edit Menu	7-3
Estimating Mode	10-4
Exclusions sheet	6-13
File Menu	7-1
File Menu	7-3
Filename	8-3
Flow Chart	2-2
General project information	6-11
Getting around	4-1
Hardware requirements	1-4

INDEX (continued)

Hot buttons	4-2
How this program works	2-1
Import Menu	7-5
Industry standard pricing	10-1
Installation	3-1
Job cost worksheet	6-8
Labor rate worksheet	6-7
Labor units	10-2
Lighting quotations	6-6
Loading a blank template	9-4
Loading instructions	3-1
Main Menu	7-1
MakeUp manager	6-15
Material abbreviations	13-1
Material List Module	11-1
Opening files	8-2
Other Menu	7-2
Outgoing bids	6-12
Permit cost worksheet	6-9
Please wait	4-4
Power quotations	6-7
Pricing & Labor Software	10-1
Pricing information	10-1
Pricing Menubar	7-3
Pricing sheet	6-5
Pricing Sheet Menu	7-2
Print manager	6-14
Print Menu	7-3
Printing	6-14
Printing database sheet	10-5
Proposal sheet	6-13
Quotes Menu	7-2
Reading template file	9-2
Recap Menu	7-1
Recap sheet	6-2

INDEX (continued)

Return Menu	7-6
Sample printouts	5-1
SaveAs	8-3
Saving a template file	9-3
Saving changes before closing	8-1
Saving changes to database	10-5
Saving files	8-3
Scope sheet	6-13
Special Tags Menu	7-5
Speed of program	1-2
Supplier discounts	10-1
Tag Menu	7-5
Template files	9-1
Title sheet	6-13
User labor units	10-2
User pricing	10-2