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# SYSTEM REQUIREMENTS

IN ORDER TO USE PLAN ANALYST, YOU MUST HAVE THE FOLLOWING:

- MICROSOFT WINDOWS VERSION XP, VISTA OR 7
- HARD DRIVE WITH AT LEAST 5 MB AVAILABLE FOR PLAN ANALYST FILES.
- CD DRIVE. *USED FOR INSTALLATION ONLY, NOT REQUIRED TO RUN PLAN ANALYST.*
- PRINTER SET UP THROUGH WINDOWS PRINT MANAGER.
- MOUSE

## INSTALLING PLAN ANALYST ON YOUR COMPUTER

### BEFORE STARTING PLAN ANALYST SETUP

IT IS IMPORTANT TO ALWAYS EXIT (CLOSE) ANY OTHER PROGRAMS (APPLICATIONS) THAT MAY BE RUNNING BEFORE INSTALLING ANY NEW MICROSOFT BASED SOFTWARE, INCLUDING PLAN ANALYST. DURING THE SETUP PROCESS, PLAN ANALYST SETUP WILL CHECK YOUR WINDOWS DIRECTORY TO DETERMINE WHICH LIBRARIES NEED TO BE ADDED BEFORE INSTALLING PLAN ANALYST. IF ANOTHER PROGRAM IS USING ONE OF THESE LIBRARIES, PLAN ANALYST CANNOT COMPLETE THE SETUP PROCESS. NOTE: MANY SYSTEMS START PROGRAMS DURING THE BOOT PROCESS AND DO NOT INDICATE THAT THEY ARE RUNNING IN THE BACKGROUND.

### TO CLOSE PROGRAMS RUNNING IN THE BACKGROUND

- 1) PRESS **CTRL+ALT+DELETE** AT THE SAME TIME.
- 2) SELECT **END TASK** TO CLOSE ALL PROGRAMS EXCEPT 'EXPLORER'.

### RUNNING SETUP.EXE

- 1) INSERT THE PLAN ANALYST CD IN YOUR CD DRIVE, USUALLY DRIVE D:.
- 2) USE EITHER THE START BUTTON OR THE COMPUTER ICON TO RUN THE PROGRAM **SETUP**.


#### USING START BUTTON:

- 1) CLICK **START** LOCATED IN THE LOWER LEFT CORNER.
- 2) CLICK **RUN...** ON THE TASK BAR.
- 3) IN THE BOX LABELED OPEN: TYPE **D:SETUP** (MATCH LOCATION OF PLAN ANALYST DISK)
- 4) PRESS **ENTER** OR CLICK **OK** NOTE: YOU MAY USE **BROWSE...** BUTTON.

#### USING COMPUTER ICON:

- 1) CLICK COMPUTER ICON
- 2) DOUBLE CLICK THE CD (D:) ICON. (SELECTION MATCHES LOCATION OF THE PLAN ANALYST DISK)
- 3) DOUBLE-CLICK SETUP ICON.

### USING SETUP.EXE

1. NECESSARY LIBRARY AND SETUP FILES WILL BE COPIED TO YOUR HARD DRIVE. NOTE: ON SOME COMPUTERS, YOU MAY NEED TO REBOOT YOUR COMPUTER TO UPDATE LIBRARIES AND THEN RUN SETUP AGAIN.
2. CLICK THE [ OK ] BUTTON OR PRESS < ENTER > ON THE WELCOME SCREEN. NOTE: THIS IS ONLY A REMINDER TO CLOSE/END PROGRAMS THAT MAY CONFLICT WITH THE INSTALLATION OF PLAN ANALYST.
3. IF YOU WANT TO CHANGE THE LOCATION WHERE THE PLAN ANALYST FILES ARE COPIED, CLICK THE **CHANGE DIRECTORY** BUTTON AND ENTER THE NEW LOCATION.
4. CLICK THE BUTTON WITH THE PICTURE OF THE COMPUTER ON IT. 
5. CLICK THE **CONTINUE** BUTTON.
6. WAIT WHILE FILES ARE COPIED.
7. CLICK THE **OK** BUTTON.

## [RUNNING PLAN ANALYST FOR THE FIRST TIME](#)

THE FIRST TIME YOU USE PLAN ANALYST, YOU WILL BE ASKED TO FILL OUT THE HEADER INFORMATION. THIS MUST BE FILLED OUT COMPLETELY BEFORE YOU CAN CONTINUE. THE REGISTRATION NUMBER IS ON THE BACK OF THE CASE. NOTE: THE INFORMATION ENTERED WILL BE INCLUDED ON ALL REPORTS. IF YOU NEED TO CHANGE THIS INFORMATION IN THE FUTURE, USE **EDIT USER INFORMATION** LOCATED IN THE **SETUP** PULL-DOWN MENU ON THE FIRST SCREEN.

Customer Information

Firm or City/County Name: Bee Weese

Department:

Street/P.O. address: 4210 Golf Club Drive

City, State Zip Code: Colorado Springs, CO 80922

Phone/Fax Numbers: 719-266-0753

Installation Code: 09147xd0001a

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### PRINTING REPORTS

PRINTING SHOULD WORK WITHOUT ANY ADJUSTMENTS TO YOUR NETWORK. IF YOU EXPERIENCE PROBLEMS:

- 1) CHECK PLAN ANALYST SETUP.
- 2) VERIFY THAT THE NETWORK SETUP FOR PRINTING IS CORRECT.

NOTE: THE MOST COMMON PROBLEM OCCURS WHEN THE NETWORK REDIRECTS PRINTING TO A DIFFERENT PRINTER OR CHANGES THE SETTINGS.

## [PLAN ANALYST FEATURES](#)

### USING THE KEYBOARD

PRESSING **ENTER** WILL ACCEPT YOUR SELECTIONS AND MOVE CURSOR TO THE NEXT FIELD OR SCREEN.

PRESSING **ESC** WILL MOVE THE CURSOR BACK TO THE LAST FIELD OR SCREEN.

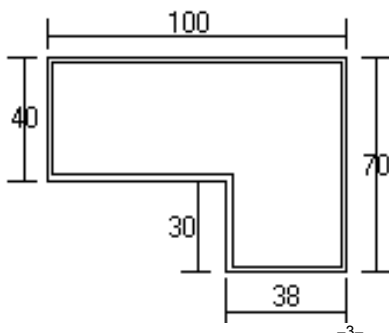
PRESSING **TAB** WILL MOVE THE CURSOR TO THE NEXT FIELD OR SCREEN.

PRESSING **SHIFT+TAB** WILL MOVE THE CURSOR TO THE PREVIOUS FIELD OR SCREEN.

### TEXT BOXES

WHEN YOU ARE ENTERING INFORMATION INTO A TEXT BOX, ALL STANDARD EDITING CAPABILITIES ARE AVAILABLE, DELETE, INSERT, OVERTYPE, ETC. IF YOU NEED TO DELETE CHARACTERS AND TYPE NEW ONES IN THEIR PLACE, **HIGHLIGHT** THE CHARACTERS TO BE DELETED FIRST. YOU MAY DO THIS BY USING YOUR MOUSE TO **HIGHLIGHT** THE WORD OR **DRAG** THE MOUSE CURSOR OVER THE CHARACTERS WITH THE LEFT BUTTON PRESSED. THEN TYPE THE NEW REPLACEMENT CHARACTERS. **NOTE:** YOU MAY ALSO USE THIS METHOD TO DELETE CHARACTERS OR WORDS. HIGHLIGHT CHARACTERS/WORDS TO BE DELETED AND PRESS THE **DELETE** KEY.

### USING THE CALCULATOR



WHEN NUMBERS, SUCH AS DIMENSIONS AND SQUARE FOOTAGE, ARE REQUIRED, A FOUR-FUNCTION CALCULATOR IS BUILT INTO PLAN ANALYST. USE THE **+** FOR ADDITION **-** FOR SUBTRACTION **x** OR **\*** FOR MULTIPLICATION AND **/** FOR DIVISION. ALGEBRAIC LOGIC IS USED (I.E. DIVISION AND MULTIPLICATION ARE ALWAYS DONE BEFORE ADDITION AND SUBTRACTION)

**THERE IS NO NEED TO REACH FOR YOUR CALCULATOR.**

WHEN ASKED FOR THE FLOOR AREA ENTER: **100 x 40 + 30 x 38** AND THE FLOOR AREA WILL BE CALCULATED FOR YOU.

## **ENTERING DIMENSIONS**

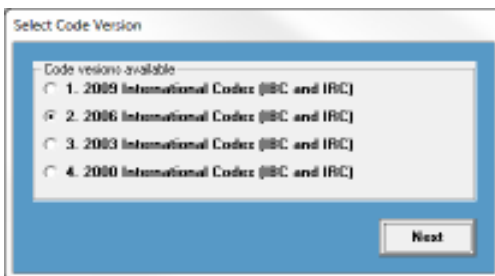
DIMENSIONS MAY BE ENTERED USING EITHER DECIMALS OF A FOOT (**10.4167**) OR BY USING THE FEET\_INCHES (**10\_5**) FORMAT. FOR 10 FEET 5 INCHES, YOU ENTER EITHER **10.4167** OR **10\_5**.

## **CUT OR COPY AND PASTE USING THE WINDOWS CLIPBOARD**

1. **HIGHLIGHT** THE WORD OR WORDS THAT YOU WANT TO MOVE TO OR FROM PLAN ANALYST.
2. IF YOU WANT TO DELETE THE HIGHLIGHTED WORDS AND COPY THEM TO THE CLIPBOARD, SIMPLY PRESS **SHIFT + DELETE** (**AT THE SAME TIME**).
3. TO COPY THE HIGHLIGHTED WORDS TO THE CLIPBOARD, SIMPLY PRESS **CTRL + INSERT** OR **CTRL + C** (**AT THE SAME TIME**).
4. MOVE THE CURSOR TO THE NEW LOCATION.
5. TO PLACE THE SELECTED TEXT AT THE NEW LOCATION, PRESS **SHIFT + INSERT** OR **CTRL+V** (**AT THE SAME TIME**).

## **SETUP PULL DOWN MENU**

### **SET CODE VERSION**



TO CHANGE THE CODE USED FOR DECKS, CLICK **SETUP** AND THEN **SET CODE VERSION** ON THE FIRST SCREEN.

1. CLICK THE CODE VERSION THAT YOU ARE USING
2. CLICK **NEXT**

### **EDIT USER INFORMATION**

IF YOUR ADDRESS OR PHONE NUMBER CHANGES, CLICK **SETUP** AND THEN **EDIT USER INFORMATION** ON THE FIRST SCREEN. THIS WILL ALLOW YOU TO EDIT THE HEADER INFORMATION THAT YOU ENTERED THE FIRST TIME YOU RAN PLAN ANALYST. SEE SCREEN ON THE LAST PAGE.

### **PRINTER & FONT INFORMATION**

TO CHANGE, CLICK **SETUP** AND THEN **PRINTER AND FONT INFORMATION**. PLAN ANALYST USES THE WINDOWS DEFAULT PRINTER. NOTE: IF YOU CHANGE THE PRINTER IN PLAN ANALYST, THE WINDOWS DEFAULT PRINTER WILL BE CHANGED TO THE NEW SELECTION.

CHANGING FONTS WILL ONLY AFFECT PRINTED DRAWING. THE INFORMATION ON THE SCREEN IS VERY TIGHT AND CHANGING THE FONT WILL CAUSE INFORMATION TO WRITE OVER OTHER INFORMATION. IF SOME INFORMATION WRITES OVER OTHER INFORMATION WHEN YOU CHANGE PRINTER FONT, TRY A SMALLER SIZE.

### **PRINTING PROBLEMS - SOLUTIONS**

1. IF SOME INFORMATION WRITES OVER OTHER INFORMATION WHEN YOU CHANGE PRINTER FONT, TRY A SMALLER SIZE OR A DIFFERENT FONT.
2. GET ERROR EVERY TIME YOU PRINT
  1. VERIFY THAT THE PRINTER IS TURNED ON.
  2. VERIFY THAT WINDOWS HAS THE CORRECT PRINTER SELECTED.
  3. VERIFY THAT THE FONT SELECTED IS VALID FOR THE PRINTER SELECTED.

## EDIT LUMBER GRADES

PLAN ANALYST IS SHIPPED WITH 6 COMMON LUMBERS SELECTED. YOU MAY CHANGE THE SELECTED LIST TO MATCH THE SPECIES AND GRADES OF LUMBER USED IN YOUR AREA.

TO MAKE PLAN ANALYST EASIER TO USE, YOU SELECT ONLY THE LUMBER THAT IS USED IN YOUR AREA. CLICK THE BOX BESIDE THE LUMBER NAME TO ADD OR REMOVE A LUMBER GRADE. GRADES WITH A CHECK IN THE BOX WILL SHOW UP ON THE LIST OF AVAILABLE LUMBERS ON THE "STRUCTURAL INFORMATION" FORM. YOU MAY SELECT UP TO 9 GRADES OF LUMBER.

For 2x\_ and 4x\_'s, select grades used most in your area.

<input checked="" type="checkbox"/> DOUG-FIR/LARCH #1	<input type="checkbox"/> NORTHERN SPECIES #1	<input type="checkbox"/> SOUTHERN PINE #2 NDEN
<input checked="" type="checkbox"/> DOUG-FIR/LARCH #2	<input type="checkbox"/> NORTHERN SPECIES #2	<input checked="" type="checkbox"/> SPRUCE-PINE-FIR #1
<input type="checkbox"/> DOUG-FIR/LCH(North)#1	<input type="checkbox"/> NORTHERN WhiteCedar#1	<input checked="" type="checkbox"/> SPRUCE-PINE-FIR #2
<input type="checkbox"/> DOUG-FIR/LCH(North)#2	<input type="checkbox"/> NORTHERN WhiteCedar#2	<input type="checkbox"/> SPRUCE-PINE-FIR(So)#1
<input type="checkbox"/> DOUG-FIR-SOUTH #1	<input type="checkbox"/> REDWOOD #1	<input type="checkbox"/> SPRUCE-PINE-FIR(So)#2
<input type="checkbox"/> DOUG-FIR-SOUTH #2	<input type="checkbox"/> REDWOOD #1 OG	<input type="checkbox"/> WESTERN CEDARS #1
<input type="checkbox"/> EASTERN HEMLOCK #1	<input type="checkbox"/> REDWOOD #2	<input type="checkbox"/> WESTERN CEDARS #2
<input type="checkbox"/> EASTERN HEMLOCK #2	<input type="checkbox"/> REDWOOD #2 OG	<input type="checkbox"/> WESTERN WOODS #1
<input type="checkbox"/> EASTERN SOFTWOODS #1	<input type="checkbox"/> SOUTHERN PINE #1(mxd)	<input type="checkbox"/> WESTERN WOODS #2
<input type="checkbox"/> EASTERN SOFTWOODS #2	<input type="checkbox"/> SOUTHERN PINE #2(mxd)	<input type="checkbox"/> 2400f-2.0E (MSR) spf
<input type="checkbox"/> EASTERN WHITE PINE #1	<input type="checkbox"/> SOUTHERN PINE SS	<input type="checkbox"/> 2400f-1.7E (MSR) spf
<input type="checkbox"/> EASTERN WHITE PINE #2	<input type="checkbox"/> SOUTHERN PINE #1 DEN	<input type="checkbox"/> 2100f-1.8E (MSR) spf
<input type="checkbox"/> HEM-FIR (North) #1	<input type="checkbox"/> SOUTHERN PINE #1	<input type="checkbox"/> 1800f-1.6E (MSR) spf
<input type="checkbox"/> HEM-FIR (North) #2	<input type="checkbox"/> SOUTHERN PINE #1 NDEN	<input type="checkbox"/> 1650f-1.5E (MSR) spf
<input checked="" type="checkbox"/> HEM-FIR #1	<input type="checkbox"/> SOUTHERN PINE #2 DEN	<input type="checkbox"/> 1650f-1.3E (MSR) spf
<input checked="" type="checkbox"/> HEM-FIR #2	<input checked="" type="checkbox"/> SOUTHERN PINE #2	<input type="checkbox"/> 1500f-1.4E (MSR) spf

CLICK **NEXT** WHEN YOU HAVE FINISHED.

ON THE NEXT SCREEN, SELECT THE GRADE USED MOST IN YOUR AREA FOR THE DEFAULT. TO SELECT, CLICK THE NAME OF THE LUMBER THAT YOU WANT TO BE THE DEFAULT GRADE.

Select grade of wood used most

For 2x\_ and 4x\_'s, select grade used most in your area.

- DOUG-FIR/LARCH #1
- DOUG-FIR/LARCH #2
- HEM-FIR #1
- HEM-FIR #2
- SOUTHERN PINE #2
- SPRUCE-PINE-FIR #1
- SPRUCE-PINE-FIR #2

CLICK **NEXT** WHEN YOU HAVE FINISHED.

Select Default for Shear

The published horizontal shear values may be increased if splits in the wood are small. Select the value that you want to be the default.

Available increases

- 1) No Split 100% increase
- 2) Max 1/2 times wide face 66% increase
- 3) Max 3/4 times wide face 50% increase
- 4) Max of width of wide face 33% increase
- 5) 1 1/2 times wide face or more No increase

WHEN DESIGNING OR CHECKING A DECK, NORMALLY YOU DO NOT HAVE ACCESS TO THE WOOD BEING USED ON THIS PROJECT. WE RECOMMEND THAT LEAVE THE DEFAULT TO **NO INCREASE** SINCE YOU CANNOT VERIFY THE CONDITION OF THE LUMBER.

# DESIGNING OR CHECKING A DECK USING PLAN ANALYST

## BASIC DIMENSIONS AND INFORMATION INPUT FORM

ENTER THE DEPTH (a) AND WIDTH (b) OF THE BASIC DECK.

IF THE DECK INCLUDES STAIRS, CLICK THE **CHECK BOX**. A CHECK MARK WILL BE PLACED IN THE BOX WHEN STAIRS ARE INCLUDED.

IF THE DECK IS TO BE USED FOR ANYTHING OTHER THAN A SINGLE FAMILY DWELLING, CLICK **ANY OTHER USE**.

DECK SHAPE WILL BE REDRAWN WHEN YOU LEAVE DIMENSION BOXES. YOU MAY ALSO CLICK THE **REDRAW** BUTTON TO SEE NEW SHAPE.

ENTER THE PROJECT ID. THIS MAY BE ANYTHING, NUMBER, NAME, ETC. OR YOU MAY LEAVE IT BLANK. ENTER THE PROJECT ADDRESS. THIS MAY BE ANYTHING OR YOU MAY LEAVE IT BLANK.

WHEN ALL OF THE INFORMATION IS ENTERED, CLICK THE NEXT BUTTON.

## ADDITIONAL FEATURES OF DECK FORM

THIS EXAMPLE DRAWING SHOWS ALL OF THE OPTIONS AVAILABLE. NORMALLY, YOU WOULD ONLY USE A FEW OF THESE. NOTICE THE LONG LIST OF OPTIONS THAT WE HAVE USED FOR THIS EXAMPLE ON THE RIGHT SIDE OF THE SCREEN AND THE COMPLEXITY OF THE RESULTING DESIGN.

## EXAMPLE DECK

FOR OUR EXAMPLE, WE HAVE SELECTED THE FOLLOWING OPTIONS:

FIRST, WE CLICKED THE **CORNER 1** PICTURE ICON.

THEN THE **CORNER 2** PICTURE ICON

THEN THE **STAIR LANDING** PICTURE ICON

THEN THE **FIREPLACE** PICTURE ICON

PLAN ANALYST WILL ADD THE DIMENSION INPUT BOXES ON THE RIGHT SIDE OF THE SCREEN FOR EACH OF THE OPTIONS SELECTED.

AS YOU ENTER THE DIMENSIONS, THE DRAWING WILL BE ADJUSTED BASED ON THE DIMENSIONS ENTERED. YOU SEE THE EXACT SHAPE OF THE DECK INSTANTLY.

TO REMOVE A FEATURE, SIMPLY CLICK THE PICTURE ICON AGAIN.

WHEN ALL OF THE INFORMATION IS ENTERED, CLICK THE NEXT BUTTON.

## LOCATION OF HOUSE FORM

### TO INPUT THE DECK LOCATION IN RELATION TO THE HOUSE WE

FIRST, SELECT THE **LOCATION(S)** OF THE HOUSE WALLS ADJOINING THE DECK BY CLICKING THE BOX THAT MATCHES THE NUMBERS ON THE DRAWING. **NOTE:** IF NO WALLS ARE SELECTED, THE DECK WILL BE DESIGNED AS A FREE STANDING DECK.

FOR OUR EXAMPLE, WE HAVE SELECTED **HOUSE WALL AT LOCATION 2.**

SINCE WE SELECTED A FIREPLACE ON THE PREVIOUS SCREEN, WE ARE ASKED IF THE **FIREPLACE IS CANTILEVERED.** WE SELECTED **YES.**

WHEN ALL OF THE INFORMATION IS ENTERED, CLICK THE NEXT BUTTON.

## STAIR INFORMATION / DETAILS FORM

SINCE WE INDICATED ON THE FIRST INPUT SCREEN THAT OUR DESIGN INCLUDES STAIRS, PLAN ANALYST HAS ADDED THE **STAIR INFORMATION / DETAILS FORM** TO THE INPUT.

ENTER **TOTAL HEIGHT** – DISTANCE FROM GROUND TO TOP OF DECKING.

ENTER **WIDTH OF STAIRS**

THE **NUMBER OF RISERS** WILL DEFAULT TO THE MINIMUM NUMBER OF RISERS REQUIRED BY CODE. YOU WOULD ONLY CHANGE THIS IF YOU WANT THE RISE TO BE SHORTER THAN REQUIRED.

THE **TREAD LENGTH** DEFAULTS TO 11 INCHES (2 2X6's). YOU WOULD ONLY CHANGE FOR SPECIAL CONDITIONS.

**STAIR LOCATION** – NUMBERS ARE SHOWN ON THE PLAN WHERE STAIRS ARE ALLOWED. SCROLL TO THE NUMBER MATCHING THE SIDE WHERE YOU WANT THE STAIRS AND CLICK ON IT. THE SELECTED NUMBER WILL BE SHOWN IN **BLUE**. STEPS WILL BE SHOWN ON THE SIDE SELECTED.

**DISTANCE FROM CORNER AT LEFT OF STAIRS** – IF THE STAIRS ARE IN THE MIDDLE OF THE SIDE, ENTER THE DISTANCE FROM THE CORNER ON THE LEFT SIDE OF THE STAIRS. IN THIS EXAMPLE, WE LEFT THE BOX BLANK, THIS WILL LOCATE THE STAIRS AT THE LEFT CORNER OF THE SIDE.

YOU CLICK **NEXT** TO GO TO THE NEXT SCREEN.

## STRUCTURAL INFORMATION INPUT SCREEN

### FOR BEAM AT FRONT OF DECK:

1. WE FIRST CHOSE THE **NUMBER OF MEMBERS** AS 2.
2. WE HIGHLIGHTED THE **MINIMUM SIZE 2X** (WHEN WE CHOOSE THIS OPTION PLAN ANALYST WILL FIND THE MINIMUM SIZE BEAM FOR US).
3. WE HIGHLIGHTED **HEM-FIR #2** AS THE GRADE OF LUMBER.

### FOR JOIST DETAILS:

1. WE CHOSE **16"O.C.** FOR THE SPACING OF THE JOIST
2. WE HIGHLIGHTED **MINIMUM SIZE 2X** (WHEN WE CHOOSE THIS OPTION PLAN ANALYST WILL FIND THE **MINIMUM SIZE JOIST FOR US**).
3. WE HIGHLIGHTED **HEM-FIR #2** AS THE GRADE OF LUMBER.
4. WE CHECKED THE BOX TO **CHECK WITH BEAM AT CENTER OF JOIST SPAN**. **NOTE:** TO LEAVE THE CENTER BEAM OUT CLICK THE BOX AGAIN.

### FOR BEAM AT CENTER OF DECK

1. WE FIRST CHOSE THE **NUMBER OF MEMBERS** AS 2.
2. WE HIGHLIGHTED THE **MINIMUM SIZE 2X** (WHEN WE CHOOSE THIS OPTION PLAN ANALYST WILL FIND THE MINIMUM SIZE BEAM FOR US).
3. WE HIGHLIGHTED **HEM-FIR #2** AS THE GRADE OF LUMBER.

### SOIL INFORMATION

1. WE SELECTED **SANDY TYPE** OF SOIL SO WE ARE NOT USING **SIDEWALL FRICTION** IN THE FOOTING DESIGN. **NOTE:** WALL FRICTION SHOULD ONLY BE USED IF PERMITTED BY THE LOCAL BUILDING DEPARTMENT AND YOU ARE POURING CONCRETE WITHOUT A FORM IN THE HOLE.

### DESIGN LIVE LOAD

1. WE SELECTED A **RESIDENTIAL FLOOR LOAD**.

YOU CLICK **NEXT** TO GO TO THE NEXT SCREEN.

## STRUCTURAL DETAILS

THE OPTIONS SHOWN IN YELLOW ARE THE CURRENT DEFAULT SELECTIONS. **NOTE:** THESE OPTIONS CAN BE CHANGED BY CLICKING THE PICTURE ICONS OF YOUR CHOICE.

### THIS FORM INCLUDES 4 OPTIONS:

1. THE CONNECTION OF POST TO FOUNDATION.
2. THE CONNECTION TO HOUSE (THIS OPTION IS ONLY SHOWN IF THE DECK IS ATTACHED TO THE HOUSE).
3. THE STYLE OF GUARDRAIL.
4. THE LOCATION OF BEAM AT FRONT OF DECK.



## FOR OUR EXAMPLE WE SELECTED:

1. **CONNECTION TO FOUNDATION** - POST ANCHOR
2. **CONNECTION TO HOUSE** - HANGER ON LEDGER  
SINCE WE SELECTED TO USE A LEDGER, WE WILL NEED TO SELECT THE ATTACHMENT METHOD. SEE INFORMATION BELOW.
3. **GUARDRAIL** - 2X6 ON TOP - 2X4'S WITH 2X2'S BETWEEN 4X4 POST WE ENTERED 8 FEET BETWEEN POST FOR RAILING.
4. **LOCATION OF BEAM AT THE FRONT OF DECK** - BEAM UNDER DECK

## SINCE WE SELECTED HANGER ON LEDGER, THIS SHOWS TO SELECT THE BOLT TYPE

Select method to connect ledger to house

- Bolts through rim joist with nut and washer on inside of rim joist.
- Lag Screws into 1 1/2 inch thick rim joist
- Lag Screws into studs at 16 inches on center
- Lag Screws into studs at 24 inches on center

1. **BOLTS THROUGH RIM JOIST WITH NUT AND WASHER ON INSIDE OF RIM. THIS IS THE STRONGEST WAY TO ATTACH THE DECK TO A RIM JOIST. NOTE: YOU MUST HAVE ACCESS TO THE INSIDE OF THE RIM JOIST TO USE THIS METHOD (NEW CONSTRUCTION OR UNFINISHED BASEMENT).**
2. **LAG SCREWS INTO 1 1/2 INCH THICK RIM JOIST. USE THIS METHOD IF YOU DO NOT HAVE ACCESS TO THE INSIDE OF THE RIM JOIST. NOTE: SOME HOMES DO NOT HAVE A STRUCTURAL RIM JOIST. A SPECIAL DESIGN WOULD BE REQUIRED.**

3. **LAG SCREWS INTO STUDS AT 16 INCHES ON CENTER**
4. **LAG SCREWS INTO STUDS AT 24 INCHES ON CENTER**

FOR OUR EXAMPLE WE CHOSE #1 FOR THE TYPE OF BOLTS

## SUPPORT POST FORM

Support Post

Spacing of Post (check one)

- Less than 6 feet
- 6 to 10 feet
- 10 to 14 feet
- Max spacing

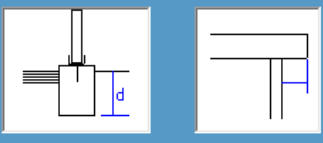
Maximum post length  
8  
In Feet

Post Size  
Minimum size  
4 X 4  
6 X 6

Depth of Footing (d)  
30  
in inches  
Min. = 12"

Distance from end of beam  
2  
Ft\_In

Show Help < Back Next >



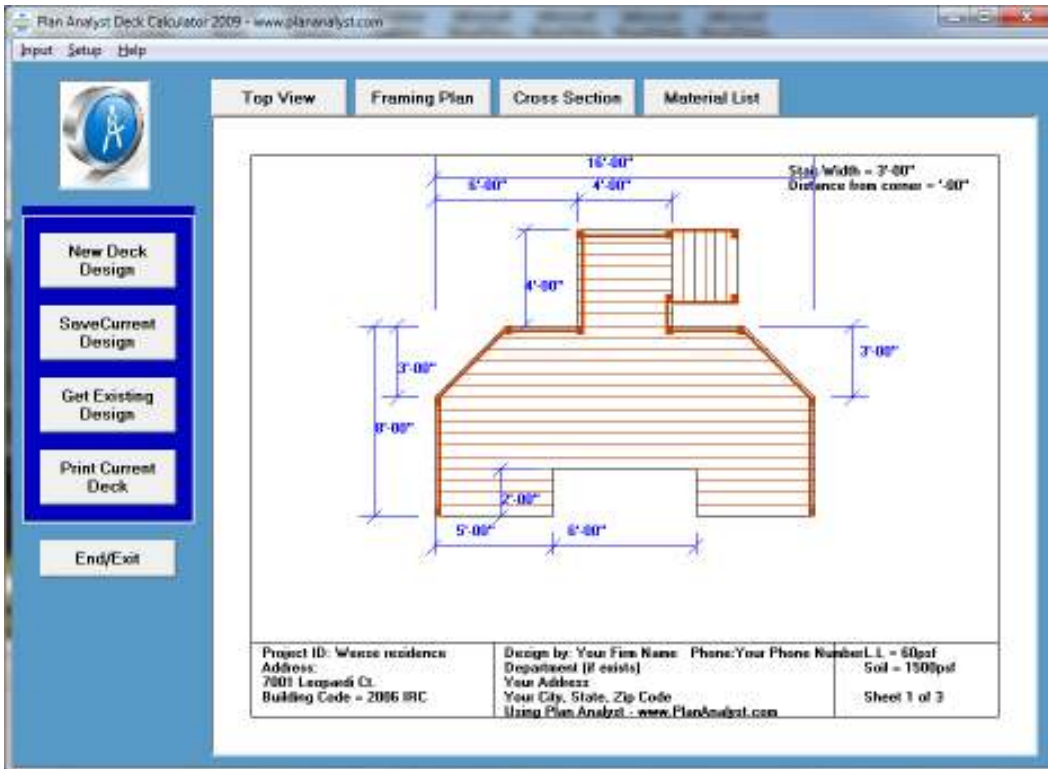
## FOR THE SUPPORT POSTS WE THEN SELECTED:

1. **A POST SPACING OF BETWEEN 6 AND 10 FEET. NOTE: MAX SPACING IS NOT AVAILABLE SINCE WE SELECTED THE OPTION FOR PLAN ANALYST TO FIND THE SIZE OF BEAMS. IF YOU ENTER A SPECIFIC SIZE OF BEAM, THEN THE MAX SPACING OPTION IS AVAILABLE.**
2. **WE ENTERED 30 INCHES FOR THE DEPTH OF THE FOOTING. THIS IS USUALLY CONTROLLED BY LOCAL CODE REQUIREMENTS (FROST DEPTH).**
3. **WE SELECTED FOR BEAMS TO HAVE A 2 FOOT DISTANCE FROM END OF BEAM (CANTILEVER).**
4. **WE WILL CHOOSE TO LET PLAN ANALYST DETERMINE THE MINIMUM SIZE OF POST.**

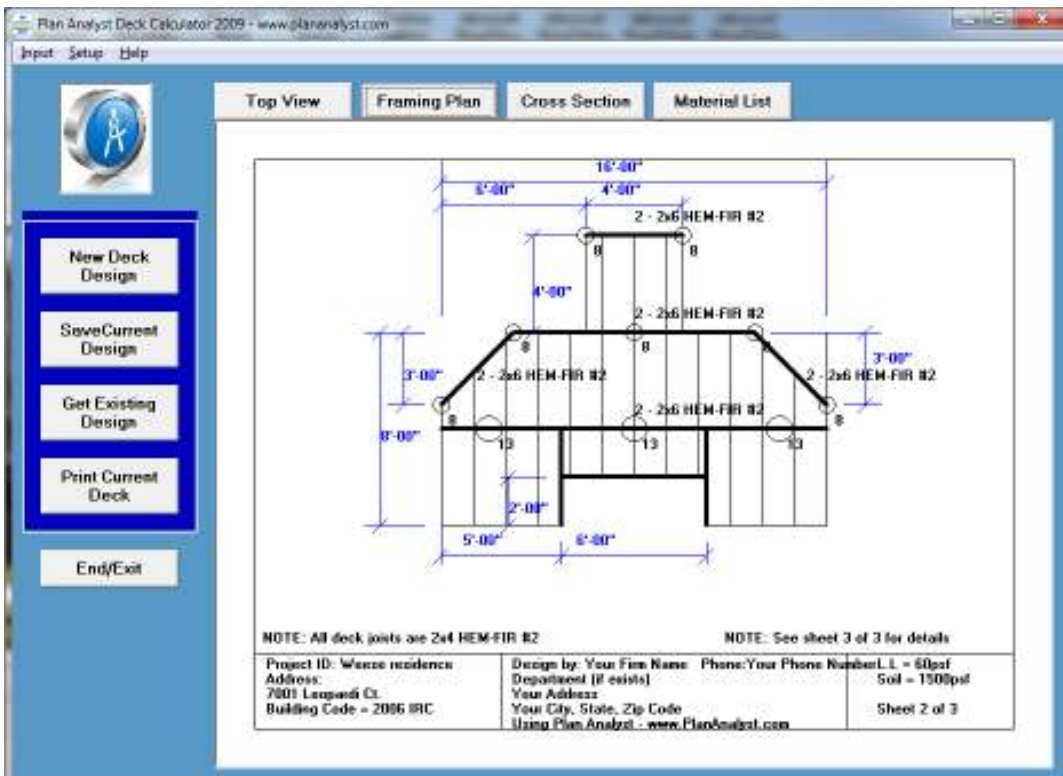
# PLAN ANALYST RESULTS

PLAN ANALYST WILL CREATE THREE DRAWINGS:

## TOP VIEW



## FRAMING PLAN



## CROSS SECTION

Material List

17-2x4x8 HEM-FIR #2  
3-2x4x12 HEM-FIR #2  
6-2x6x8 HEM-FIR #2  
2-2x6x10 HEM-FIR #2  
2-2x6x16 HEM-FIR #2  
Number of 4X4 support post = 10  
Number of post caps = 10  
Number of post anchors = 10  
Number of joist hangers = 14  
Concrete - Yards = 1.446865 Bags of 80# Concrete = 21  
Lags for ledger = 24-1/4 X 3 1/2 lag screws.  
Decking = 15 - 2X6X16 wood decking.  
Total length of guardrail = 52' feet.  
156-2X2's for guardrail  
8- 2X4X16's for railing.  
4- 2X6X16's for railing.  
13- 4X4 post for railing.  
1. Stair support not included.  
2. Amount may need to be adjusted for conditions requiring additional material.

Project ID: Weese residence Address: 7001 Leopardi Ct. Building Code = 2006 IRC	Design by: Your Firm Name Department (if exists) Your Address Your City, State, Zip Code Using Plan Analyst - www.PlanAnalyst.com	Phone: Your Phone Number Soil = 1500psf	Sheet 1 of 1
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Help Print Done

TO VIEW THE DRAWINGS, CLICK THE **TOP VIEW**, **FRAMING PLAN** OR **CROSS SECTION** TABS ABOVE THE DRAWINGS.

TO PRINT THE DRAWINGS, CLICK THE **PRINT CURRENT DECK** BUTTON ON THE LEFT SIDE.

TO EDIT THE DECK DESIGN, CLICK **INPUT** AND THEN CLICK **EDIT** FOR THE INFORMATION THAT YOU ARE CHANGING. WHEN THE CHANGES ARE MADE, THE DRAWINGS WILL BE ADJUSTED FOR THE NEW INFORMATION.

## MATERIALS LIST

IF YOU WOULD LIKE FOR PLAN ANALYST TO PRODUCE A COMPLETE MATERIALS LIST, YOU SIMPLY CLICK THE **MATERIAL LIST** TAB.

**THIS FORM WILL SHOW.**

Length of wood you prefer to use

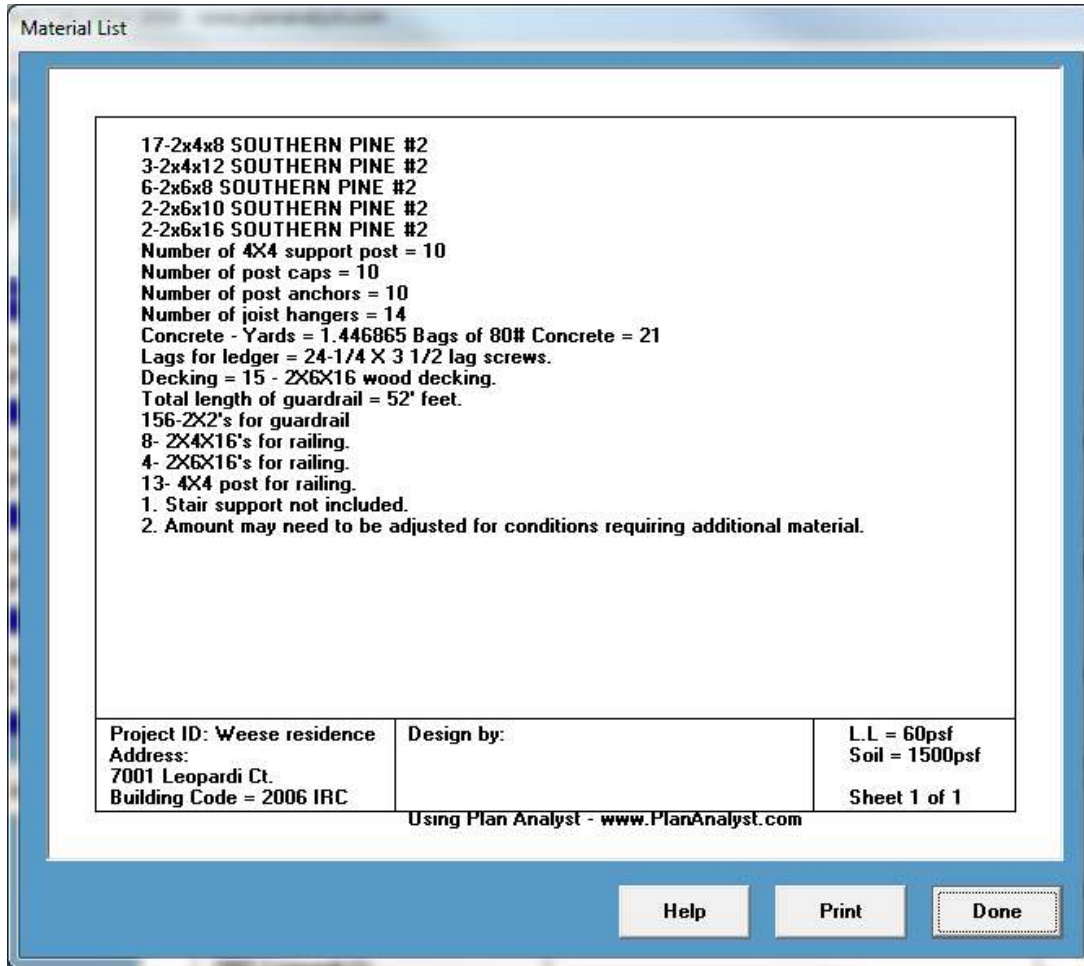
<b>Splicing of wood</b> <input type="checkbox"/> Splice joist over center beam <input type="checkbox"/> Separate joist for stair landing <input type="checkbox"/> Separate joist for corner landing <input type="checkbox"/> Separate joist for house match <input type="checkbox"/> Splice beams over all post	<b>Max Beam Length</b> <input type="radio"/> 8 feet <input type="radio"/> 10 feet <input type="radio"/> 12 feet <input type="radio"/> 14 feet <input checked="" type="radio"/> 16 feet <input type="radio"/> 18 feet <input type="radio"/> 20 feet	<b>Guardrail Length</b> <input type="radio"/> 8 feet <input type="radio"/> 10 feet <input type="radio"/> 12 feet <input type="radio"/> 14 feet <input checked="" type="radio"/> 16 feet <input type="radio"/> 18 feet <input type="radio"/> 20 feet	<b>Length of Decking</b> <input type="radio"/> 8 feet <input type="radio"/> 10 feet <input type="radio"/> 12 feet <input type="radio"/> 14 feet <input checked="" type="radio"/> 16 feet <input type="radio"/> 18 feet <input type="radio"/> 20 feet
<b>Concrete</b> <input type="radio"/> 50 pound bags <input checked="" type="radio"/> 80 pound bags	<b>Type of Decking</b> <input checked="" type="radio"/> 20% Wood <input type="radio"/> Composite		

Back Next

YOU WILL BE ASKED TO SELECT OPTIONS BASED ON YOUR PREFERENCES AND THE MATERIALS AVAILABLE IN YOUR AREA.

YOU THEN CLICK **NEXT**.

**THE FOLLOWING IS A SAMPLE MATERIALS LIST BASED ON OUR SAMPLE INPUT**



**ALL DIGITAL (PAPERLESS) CODE STUDIES**

**WHAT IS NEEDED?**

1. COMPUTER WITH 2 MONITORS CONNECTED (1 TO DISPLAY PLAN ANALYST AND 1 TO DISPLAY AUTODESK )
2. PLAN ANALYST SOFTWARE
3. AUTODESK DESIGN REVIEW SOFTWARE (CURRENTLY, FREE OF CHARGE FROM AUTODESK)



USE THE FEATURES OF AUTODESK DESIGN REVIEW TO GET INFORMATION (DIMENSIONS, SQUARE FEET, ETC). ENTER THE INFORMATION INTO PLAN ANALYST. AS YOU CREATE THE CORRECTION REPORT, COPY AND PASTE REQUIRED CORRECTIONS FROM PLAN ANALYST TO THE CALLOUT BOXES IN AUTODESK DESIGN REVIEW. USING THIS SYSTEM, YOU HAVE REVIEWED THE PLANS WITHOUT HANDLING A PAPER COPY OF THE PLANS. THIS SYSTEM SPEEDS UP THE PLAN CHECK PROCESS, ADDS CONVENIENCE AND A POPULAR **GREEN FACTOR** FEATURE.

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