

Student Number _____

2004 TSA State Conference Computer-Aided Design, Architectural 2D

You are to design a house for a family consisting of the following members; a husband and wife, 13 year old child and 78 year old grandparent who has trouble walking up and down stairs. Primary living space should be on the first floor of the house and there is a minimum of two full bathrooms.

The house will be built on a flat lot with a frost depth of 36 inches. The foundation should be cast concrete and able to support a brick veneer. Also included should be a two-car garage with a slab floor and foundation.

You will need to create the following drawings on a standard C size (17x22) sheet:

- o Titleblock with the following information:
 - Technology Student Association 2D Architectural CAD Competition
 - Drawing title
 - Student number
 - Drawing scale (use a standard architectural scale)
 - Date
- o Fully dimensioned floor plan:
 - Exterior dimensions, including location dimensions to the centers of door and window openings
 - Interior dimensions dimension to wall centers, do not dimension rooms with overall room sizes
 - Include kitchen work triangle maximum size 21'
- o Fully dimensioned foundation plan with appropriate notes and section symbols
- o Fully dimensioned and labeled sections of the garage slab and the house footing
 - Place these sections to the right side of your foundation plan
 - Scale the sections to twice the scale of the foundation plan
- o An exterior elevation of the front of the house
 - Only show above grade details
 - Do not dimension this view
- o Complete the drawings in the order of (1) floor plan (2) foundation plan with section views (3) exterior elevation
- o Save early and often, loss of electronic data will not result in any extra time for drawing completion

You will also need to create an estimate of the cost to build your house. A budget of \$175,000 has been allotted for this house. Use the table below to estimate your costs. Turn in this sheet along with your zip disk or CD with the saved drawing files.

	Square Footage in Area	Cost Per Sq. Ft.	Cost For Area
Living Area	_____	\$70	_____
Garage	_____	\$25	_____
Porch/Patio (if included)	_____	\$25	_____
		Total Cost	_____