



NAWIC Education Foundation



The National Association of
Women in Construction

*Leading
Builders.*

***Building
Leaders.***



The National Association of
Women in Construction

Fargo-Moorhead, ND



NAWIC Education Foundation

DESIGN DRAFTING

2025-2026



The Yearly “Problem” is:

- Designed by a licensed Architect, Engineer or design professional
- Is generic enough to meet the needs of all areas of the US and our international affiliates
- Includes a site description and plan
- List of required drawings and information



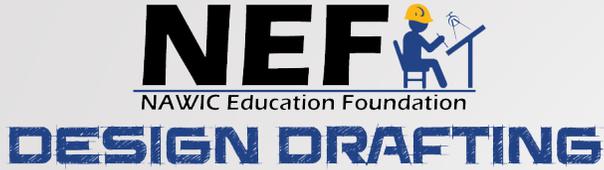
Students are “Recognized for”:

- Creative Design
- Successful Problem Solving
- Craftsmanship in preparing architectural drawings and renderings.



Students are “Evaluated On”:

- Overall design solution to the architectural problem statement
- Creativity
- Placement and Presentation
- Meets Clients Needs / Design Intent
- Drawing requirements



The Design Drafting “Objective” is:

- To introduce the student to the construction industry in a positive and challenging manner, while fostering a sense of self-worth and building confidence.
- To encourage mentoring programs between contestants and educators.



“Two Divisions”

- **High School**
 - **9th through 12th grade** *(full or part time)*
- **College (2yr or 4yr)**
 - **Freshman through 1st year Senior**

2025-2026 Design Problem

“Smith Family of Five Residence

The Smith family has asked you design their new home. They have provided you with a site plan (included in packet) and a few specific requirements. However, they are relying on your creativity to provide them with a functional and aesthetically pleasing design that will blend in with the surrounding vernacular of the area.

The following requirements have been provided by Mr. & Mrs. Smith

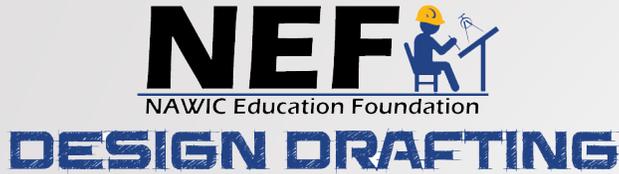


2025-2026 Design Problem

- Single-story residence
- *Have 3 children, 7-year-old daughter & twin 5-year-old sons – Each will have their own bedroom.*
- *Mr. Smith is a banker & toy collector. Wants a glass display cabinet built into the foyer and family room area of the house to display his John Deere 1116th scale toy tractors. Needs to be 18” deep and 4’0” wide at each location*

2025-2026 Design Problem

- Mrs. Smith has her own interior design business which she runs from home.
 - Requires an office area with desk space for a computer, printer, drawing board, 30" x 60" worktable and three filing cabinets
 - Storage room or alcove adjacent to the office for storage of carpet, fabric, tile and laminate samples (approx. 80 sq. ft.).
 - Doesn't have clients coming to the house, but has salespeople delivering samples and catalogues and meeting with her about the various products. *Needs direct access from the outside to her office.*



2025-2026 Design Problem

- The residence must also include:
 - *Kitchen with Breakfast Nook*
 - *Dining Room*
 - *Family Room with fireplace and alcove for computer set-up for computer games and on-line research*
 - *Study with built-in shelving and space for two computer setups*
 - *Master Bedroom with full Bath and his/her walk-in closet*

2025-2026 Design Problem

- The residence must also include (cont.):
 - *Laundry Room near bedrooms*
 - *Full bath with tub for daughter*
 - *Full bath with shower for sons*
 - *Two-car garage or carport with storage room for lawnmower, bicycles, gardening tools, etc.*
 - *Deck or Patio in backyard*



2025-2026 Design Problem

- Other areas and/or rooms may be added as you deem necessary.
 - However, the total heated and/or cooled space shall not exceed 3,000 square feet.
 - The style of the house should be appropriate in your area.
 - It may be stucco, brick, siding, etc. with low-sloped, steep sloped or flat roofs.

Must use the site plan included in the packet!!

2025-2026 Design Problem

“Design Drawing General Requirements”

- Must include in each drawing:
 - Title block matching the format provided in the contest guidelines – Must be complete! (*see next slide*)
 - Standard scale will be $\frac{1}{4}'' = 1'0''$ unless otherwise noted
 - Include the Entry Code number as assigned by your administrator. Do Not list your name on the drawings. All units shall be in English system – no Metric system.
 - North arrow, labels and dimensions.

2025-2026 Design Problem

“Title Block”

SMITH FAMILY OF FIVE RESIDENCE	
<u>CODE #:</u> 25-MW-ND-123456-01-HD	SHEET # A – 1
DATE: 2025 - 2026	OF: 7 (For CAD)

- A 1” x 6” lettering block shall be placed in the lower right-hand corner on each sheet including the above information as shown. (May use the sample shown above).

2025-2026 Design Problem

“Required for submission”

- **Design Drawing General Requirements** (*must be included in each drawing as shown in previous slide*).
 - Design Narrative / Concept (20 pts.)
 - Required Drawings: **(Total of 165 pts)**
 - A-1 Site Plan – *Included in package (25 pts)*
 - A-2 Floor Plan (35 pts)
 - A-3 Ceiling/Electrical Plan (30 pts)
 - A-4 Exterior Elevations (Min. 2 views – Max.4 views) (25 pts)
 - A-5 Building Section (30 pts)

2025-2026 Design Problem

“Optional Drawings for submission”

- Bonus Drawings: Series (Total of 20 pts)
 - A-6 Bonus Drawing #1 (10 pts)
 - A-7 Bonus Drawing #2 (10 pts)

Total of 165 pts. or 185 pts. With Bonus Drawings!

Possible drawing types include but are not limited to:

- *Additional Exterior Elevations*
- *Additional Interior Elevations*
- *Cabinetry elevations and sections*
- *Door and window elevations, schedules, and details*
- *Project phasing and schedule and budget with itemized cost breakdown*



2025-2026



- NEF has partnered with Procore construction management software solutions to provide real time industry experience to students and instructors.
- Procore offers a FREE certification program for students that allows students and instructors an opportunity to learn how to use the Procore software and obtain the industry sought after certification.
- The instructors may explore the other certifications for their students. All certifications are free and available on Procore's website.



2025-2026



- NEF has set up our own Procore site for the 2025-2026 Design Drafting Competition
 1. Students can submit questions directly using the RFI (*Request for Information*) tool in the Procore platform (*a formal Q & A process*). Allow 2 – 3 days for NEF to respond and post an answer to the Procore website.
 2. Check the Procore platform regularly for updates of special announcements. Review the RFI section often to see if your question has been covered before submitting duplicate questions.
 3. All PDF and CAD files for this project may be found under the Documents tab in the Procore platform.



2025-2026



“To participate:”

- Go to www.nef-edu.org
- Click on the link – <https://form.jotform.com/252437166616157>.
- Allow 24-48 hours for a Procore link to be sent to you via email.
- Upon receipt of email, you will be granted access to the **25-26 Design Drafting Project**.



2025-2026



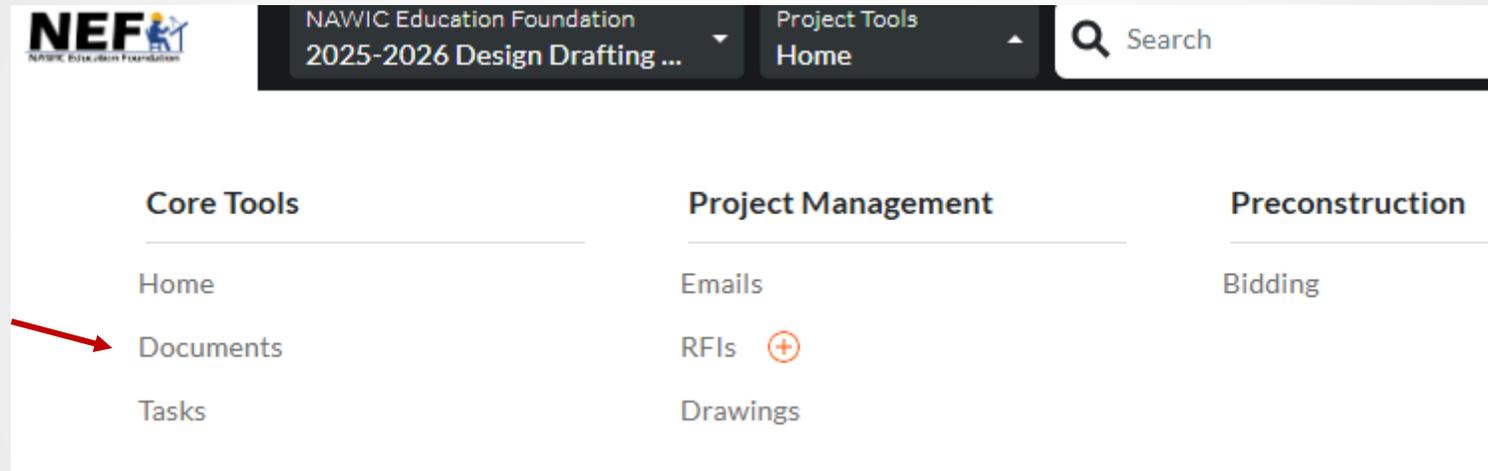
The screenshot shows the PROCORE web application interface. At the top left is the NAWIC Education Foundation logo. The main header contains navigation options: "NAWIC Education Foundation Select a Project", "Company Tools Portfolio", and "Favorites". Below the header, the "PORTFOLIO" section is active, with sub-tabs for "Projects", "Health Dashboard", and "My Open Items". A search bar labeled "Search projects" is present, along with "Add Filters" and "Clear All" options. The interface indicates "Displaying 1 of 1" project. A table lists the project details:

Name	Project Number	Address	City	State	ZIP	Phone	Status	Stage	Type	Notes
2025-2026 Design Drafting Competition		327 S. Adams St.	Fort Worth	Texas	76104		Active	Bidding	Sample Project	

- Once you have access to the site – this is the page you will see. You will need to click on “2025-2026 Design Drafting Competition” to take you to the next screen.



2025-2026



- Click on Project Tools to get this dropdown screen.
- Click on Documents (to find all the forms required) or RFIs (to check out the Requests for Information)

The screenshot shows the Procore software interface. At the top, there is a navigation bar with the NAWIC Education Foundation logo, a dropdown menu for 'NAWIC Education Foundation 2025-2026 Design Draftin...', another dropdown for 'Project Tools Documents', a search bar with 'Search' and 'Ctrl K' shortcuts, and a 'Favorites' link. Below the navigation bar, the main content area is titled 'Documents'. It features a search box 'Search in this project' and an 'Add Filter' button. A sidebar on the left shows a tree view with '2025-2026 Design Drafting Compet' expanded to show '01 Design Drafting Guidelines & Ir'. The main area displays a table of documents:

<input type="checkbox"/>	Name	Created On / Latest Version
<input type="checkbox"/>	01 Design Drafting Guidelines & Information	08/28/2025 at 06:08 AM

Click on:

- 01-Design Drafting Guidelines & Information to access the problem, reference materials and forms


NAWIC Education Foundation
2025-2026 Design Draftin...
Project Tools
Documents

Search
Ctrl K

★ Favorites

Documents

Search in this project
Add Filter ▾

- ✓ 📍 2025-2026 Design Drafting Competit
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2025-2026 Design Drafting Competition > 01 Design Drafting Guidelines & Information

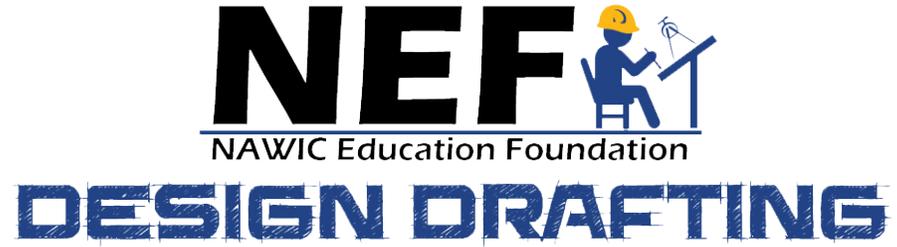
<input type="checkbox"/>	Name	Created On / Latest Version
<input type="checkbox"/>	📁 01 Project	08/28/2025 at 06:08 AM
<input type="checkbox"/>	📁 02 Design Files	08/28/2025 at 06:08 AM
<input type="checkbox"/>	📁 03 NAWIC Chapter Forms	08/28/2025 at 06:08 AM
<input type="checkbox"/>	📁 04 NAWIC Regional Forms	08/28/2025 at 06:08 AM
<input type="checkbox"/>	📁 05 Individual Sponsor Forms	08/28/2025 at 06:08 AM
<input type="checkbox"/>	📁 06 Judging Forms	08/28/2025 at 06:08 AM
<input type="checkbox"/>	📁 08 Design Guidelines	08/28/2025 at 06:08 AM
<input type="checkbox"/>	📁 09 IRS Tax Form W-9	08/28/2025 at 06:08 AM

- Each folder has the information you will need to participate in the competition.



Schedule / Check List

- **Send Problem to High Schools & Colleges** - *ASAP after receiving from NEF*
- **Receive Applications** - *Date set by Chapter Chair*
- **Assign contestant numbers** (*Judged anonymously*) - *After receipt of Applications*
- **Send Student Acknowledgements** - *Within a week of receiving Apps*
- **Receive Submissions** - *No later than February 15th*
- **Judged by construction industry professionals** - *Date set by Chapter Chair*
- **Winner of local due to the Regional Chair** - *Third Monday in March*
- **Regional winner due to the National Chair** - *First Monday in April*
- ***National winners announced at NAWIC Annual Conference in August***





NAWIC Education Foundation

DESIGN DRAFTING



Fargo-Moorhead, ND

Chapter Chair

Amy Berg, CBT, CIT

Fargo-Moorhead, ND #246

aberg.nawic@yahoo.com

218-234-6633

