



WARRIOR VILLAGE PROJECT®

501 (c)(3) Nonprofit

The Bugle: Vol 6, Issue 1, January 2024

www.WarriorVillageProject.com

PROGRESS REPORT

I am usually behind the camera, not in front; and no one has ever said: "I want to see photos of Mark in the newsletter." But, I was in the view finder at the [Poway Unified School District Foundation 2023 Awards Ceremony](#) for Teachers, Classified Employees and Volunteers of the Year. So, despite a lack of popular demand, here I am with Lynn McConville and Jeremy Martin of the PUSD.



I was selected as a Volunteer of the Year for facilitating the donation of materials from [Weyerhaeuser](#) and [Home Depot](#) to the construction program at Poway High School (PHS). That's all I did. PHS has let me bring many groups to the school to see the amazing work their students are doing building tiny houses. Lynn, Jeremy and Gene Tallon have been very patient while teaching me how it's done; and I received a beautiful certificate for my wall. I came out ahead on this arrangement!

Thanks Lynn, Jeremy and Gene!

22 November 2023



[Weyerhaeuser Giving Fund](#) awards third grant, for \$5,000

[See more](#)

16 January 2024



[Baker Electric](#) organizes donation of electrical materials

[See more](#)

16 January 2024



[OneSource](#) donates electrical materials for tiny houses

[See more](#)

16 January 2024



[Rexel](#) donates electrical materials for tiny houses

[See more](#)

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EVENTS

Happy New Year!

WarriorVillageProject.com

VIP PROFILE

Our American Veterans

Our [Wounded Warrior Homes](#) partners have been mentioned numerous times in our newsletters. You have also read about our nascent partnership with the [HBI Transitioning Military Program](#). The Warrior Village Project played matchmaker and introduced them to each other. It is a great match, and these two awesome organizations are now building a partnership of their own.

The Warrior Village Project donated our first house to Wounded Warrior Homes and installed it as an Accessory Dwelling Unit (ADU) at their residence in Vista. Although the house was completed and fully furnished when the keys were handed to Mia Roseberry, Executive Director of Wounded Warrior Homes, it needed finishing touches. Specifically, it needed a deck and stairs in front of the house.

[Weyerhaeuser](#) donated Azek decking material to the Warrior Village Project which shared it with Wounded Warrior Homes to construct a deck, furnished with a beautiful American Flag Bench donated by Nick Jordan's construction students at [Montecito High School](#). Although not legally required because of the deck's short height above the ground, Mia thought that the deck needed railing. Weyerhaeuser donated guard rails; but, we needed tradesmen to assemble the guard rails on the deck.

Nina Ridgley, Director of the HBI Program in San Marcos, came to the rescue with about a dozen Transitioning Military Program students to install the rails. For good measure, the students also installed hand rails on the steps leading from the main house down to the ADU and repaired exterior security lights on the main house. These were projects that had been on the Wounded Warrior Homes to-do list for years. Over the course of two work days in December and January, the military students completed the installation of the rails on the ADU deck and stairs, and repaired the lights. *Veterans helping Veterans - I love it!*



(continued on page 3)

VIP PROFILE

Our American Veterans (continued)

The troops from the HBI Transitioning Military Program didn't quite finish their work in December, so they came back in January to finish the deck rails and stair rails. I am not the only one who thinks that Veterans helping Veterans is awesome, because KUSI News, ABC San Diego 10 News, NBC San Diego 7 News, and [CBS San Diego News 8](#) (click for News 8 Report) came to the site to report on their work!



CONSTRUCTION UPDATE, SMHS

- **Chapter 1** Trailer
- **Chapter 2** Framing
- Chapter 3 Rough Plumbing
- Chapter 4 Rough Electrical
- Chapter 5 Wall sheathing
Roofing Shear
Moisture Barrier
- Chapter 6 Roofing
- Chapter 7 Windows and Doors
- Chapter 8 Rain Screen
Exterior
Exterior Trim
Finish
- Chapter 9 HVAC
Venting
- Chapter 10 Insulation
- Chapter 11 Interior Wall
Ceiling Covering
- Chapter 12 Interior Cabinetry
Installations
Flooring
Fixtures
- Chapter 13 Interior Trim
Finish
- Chapter 14 Finish Plumbing
Electrical
Fixtures
- Chapter 15 Finish Hardware
Touch-ups
- Chapter 16 Health & Safety
Final Testing
Certification Sub
mission

San Marcos High School: Chapter 1, Day One

San Marcos High School (SMHS) teacher Chris Geldert has 25 students in his first period class. On Day One of the construction of SMHS' tiny house, Chris was multi-tasking. In his classroom Chris was making a presentation on the [Design Build Competition](#) to eight students who will be participating in the competition sponsored by the [Construction Industry Education Foundation](#).

Outside, the remainder of Chris' students were cutting rolls of R-13 batt insulation into pieces and laying them between the floor joists of their trailer foundation. They were also taking measurements of the trailer bed and trimming sheets of 3/4" plywood for the subfloor. The plywood sheets are 8' across, but the trailer is only 7' - 11" wide. The plywood was donated and delivered to SMHS by [Dixieline Lumber & Home Centers](#) in December.

How does Chris manage all of the this? Chris is a Superman Teacher, but even Superman can't be in two places at the same time. Fortunately, Jon Hill and Alan Ferguson of the [AGC Apprenticeship Program](#) come to SMHS every Wednesday morning to help teach Chris' students. On Day One, Alan was helping Chris prepare his students for the Design Build Competition. At the same time, Jon was working with Teaching Assistant Jaydon Sterling to guide the students working on their tiny house.



Follow the progress of our students with our monthly Construction Updates.

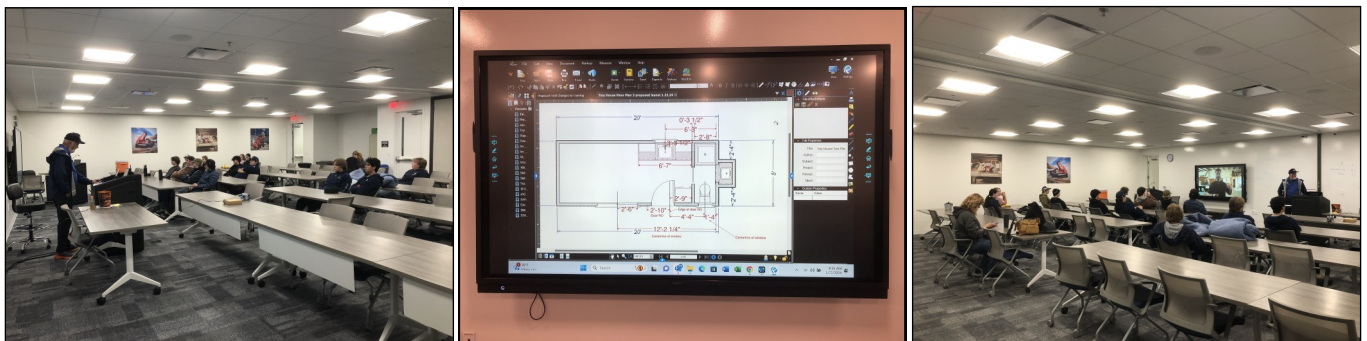
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CONSTRUCTION UPDATE, SMHS (continued)



In the few years I have known Chris Geldert, my respect for his intellect and broad skills has only grown. What I did not know is that, among his many talents, he has the uncanny ability to forecast the weather. He had the prescience to schedule a workday with the AGC Apprenticeship Training Program in their Training Facility in Lakeside on Monday, January 22 - the day of an historic rain in San Diego County. It was a stroke of genius! Not only did Chris' students get to work inside a world-class, spacious and well-equipped *indoor facility* while it was pouring outside, they had the undivided attention of Jon Hill and Alan Jurgensen, two of AGC's finest, for four-hours of hands-on work. They managed to build and raise all four exterior walls of their tiny house during the 5-hour session before heading back to San Marcos.

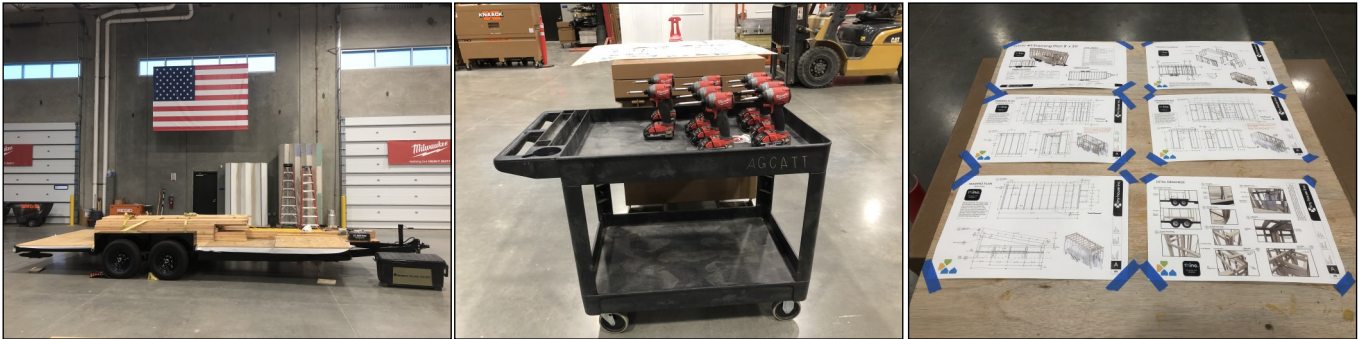
The day was kicked off with a short lecture by Jon Hill on the layout work that would be done to determine the precise locations of the four exterior walls, one interior wall, the entry door, three windows, kitchen cabinets, refrigerator and plumbing fixtures. After Jon's lecture, the students viewed the Chapter 2 (Framing) video included in the Tiny House, Inc. curriculum.



The students then headed to the cavernous workshop, where their trailer and lumber awaited, along with their tool bags, hardware and fasteners. The students worked in three teams. One team, under the guidance of Jon Hill, built the 'Passenger' side wall, another team built the 'Driver' side wall under Chris' supervision, while Alan Jurgensen led a team that built the shorter the front and back rake walls. All of the walls were assembled with wood screws (not nails). AGC provided all of the students with impact drivers and had set up two chop saw stations where they could cut studs to size.

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CONSTRUCTION UPDATE, SMHS (continued)



Before the students could start building, they had to level the trailer to ensure that the walls would be vertical, and perpendicular at a 90 degree angle to the subfloor. Fortunately, this was a quick and easy task on the perfectly level floor of the warehouse. The conditions back at school are not as favorable.

Each team was working with at least one sheet from the architectural plans, which they referred to time and time again while laying out their work. In the carpentry trade they say one should measure twice and cut once. The same concept applies to reading and following plans.

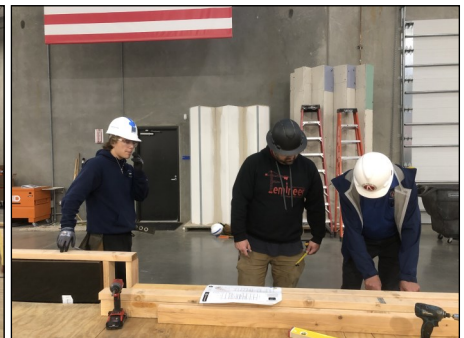
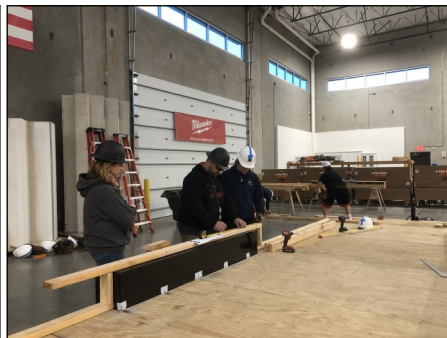
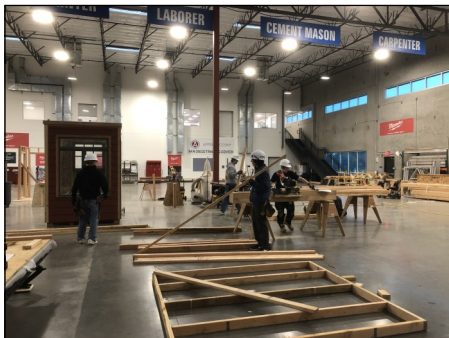
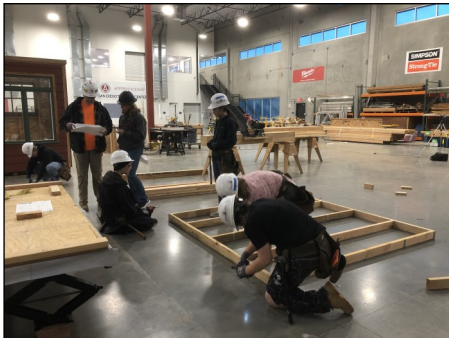
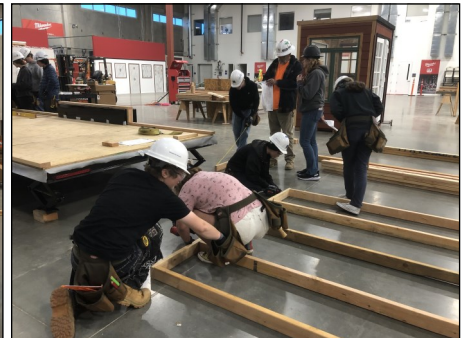
We made a few 'field changes' to the plans to accommodate a smaller shower stall than specified; to accommodate a larger, standard refrigerator (instead of a small, under counter refrigerator), and; to reduce the size of two of the three windows. We didn't make these changes just to challenge our students, although they did. We were striving to optimize the utility of our very small, 160 sq ft house.

Once the plans were understood, the students proceeded to measure and cut the pieces of 2 x 4s that would form the base plates for the walls, laying them out on the trailer foundation, and double checking their layout with the plans.



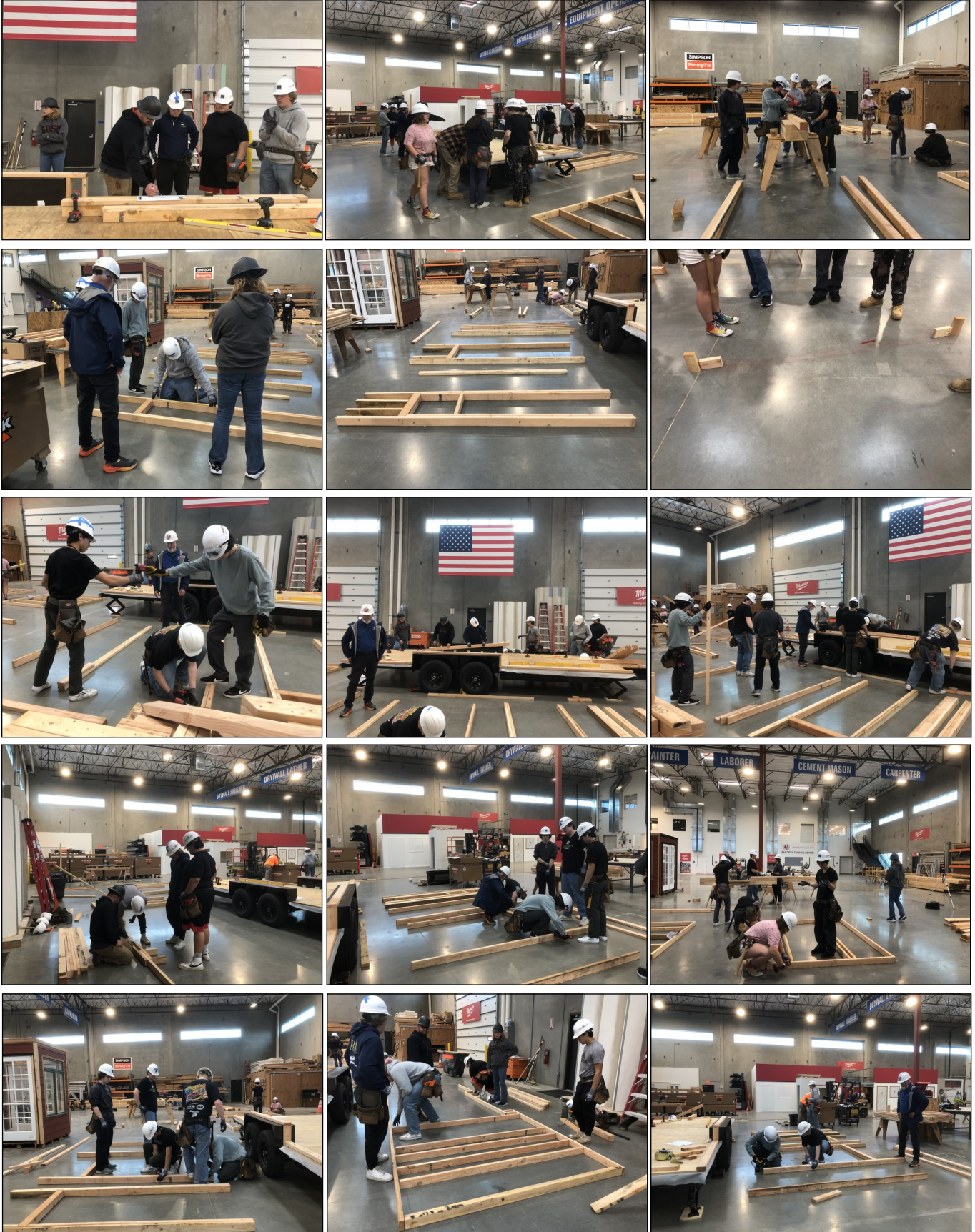
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CONSTRUCTION UPDATE, SMHS (continued)



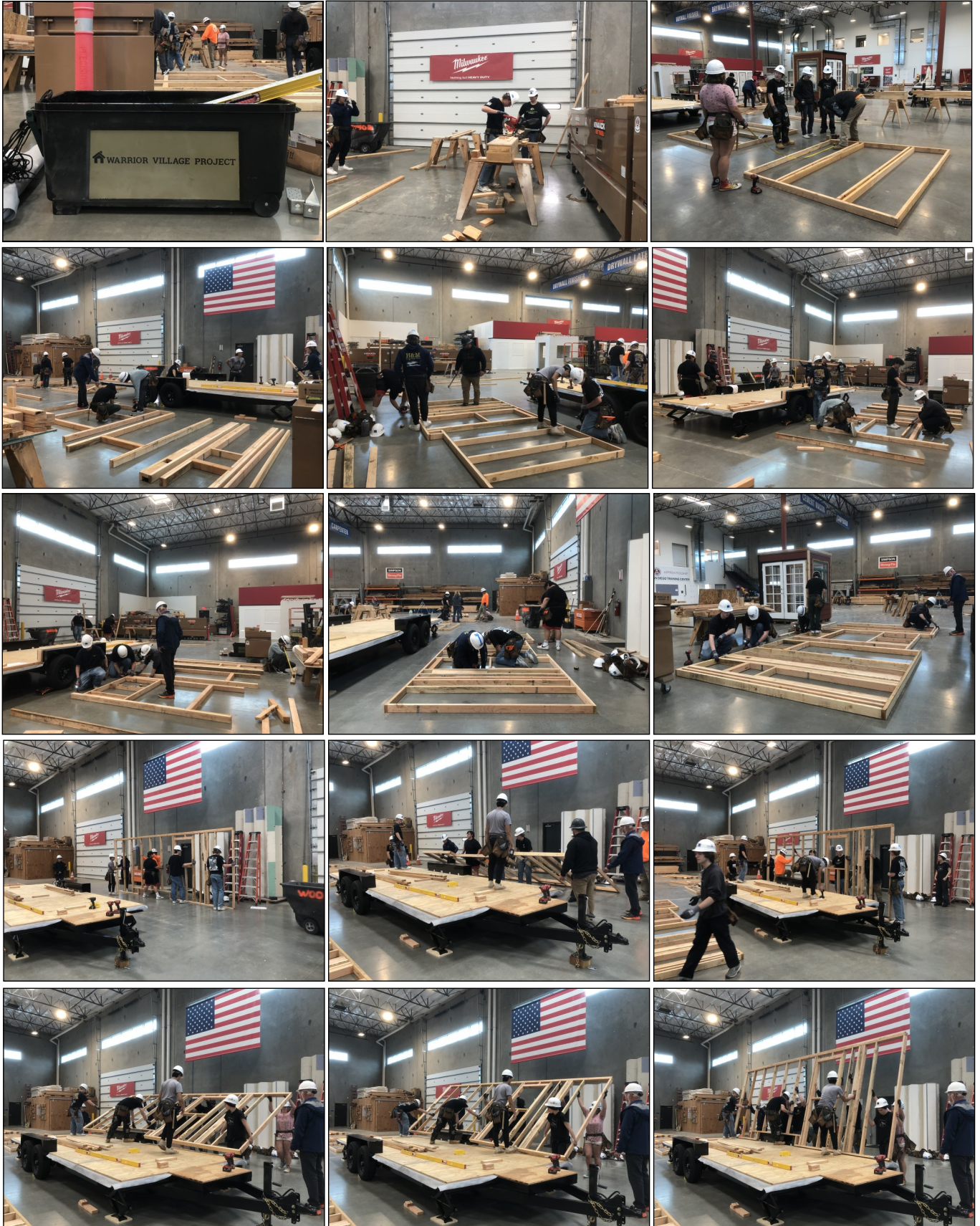
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CONSTRUCTION UPDATE, SMHS (continued)




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CONSTRUCTION UPDATE, SMHS (continued)




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CONSTRUCTION UPDATE, SMHS (continued)



Associated General Contractors of America
San Diego Chapter, Inc.
The **VOICE** of Construction



Thank you Jon, Alan and the AGC Apprenticeship Program for an awesome Build Day at your Training Facility!

CONSTRUCTION UPDATE, SPHS

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- Chapter 2 Framing
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Final Testing
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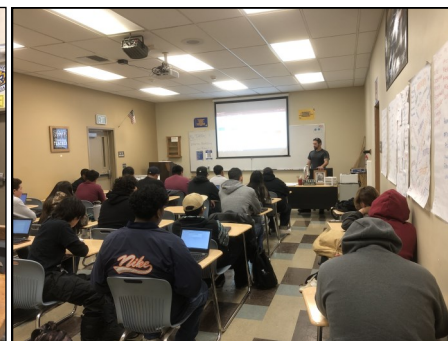
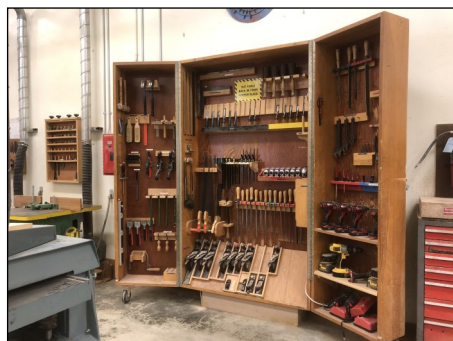
San Pasqual High School: Chapter 1, Day One

Teacher Brandon Tarrac, CTE Instructor - Woodshop & Construction at San Pasqual High School (SPHS), uses classroom lectures and hands-on project work to teach his students building skills. On Day One of the construction of San Pasqual's first Moveable Tiny House he used both.

On this day I had invited Holly Wymss, Digital Marketer from [Dixieline Lumber & Home Centers](#), to join me at San Pasqual to see Brandon's students in action. Brandon gave us a tour of his awesome woodworking shop. He explained to us that he had two levels of Woodworking students, as well as two levels of students in Construction 1 and Construction 2. In his Woodworking 1 and 2 classes students learn about using tools, making measurements and safe working practices while working on a variety of woodworking projects. His Construction 1 students learn carpentry, plumbing, electrical, HVAC and masonry trades with small 'practice' projects. He showed us an example of a Construction 1 project his students do to practice carpentry framing skills.



Brandon has Construction 2 students and a few advanced Construction 1 students building their tiny house. He kicked off Day One of his tiny house program with a lecture on insulating the floor of their trailer foundation using videos from Tiny House, Inc.



I can already tell that I am going to have trouble keeping up with Brandon and his students this semester. While I wasn't looking they had already cut up two rolls of R-13 batt insulation and laid the pieces in the bays between the floor joists of the trailer. They had also laid out sheets of 3/4" plywood on the trailer and started making measurements and marking the plywood so that they could trim the sheets for the subfloor of their house. The sheets of plywood are 8' feet across, while the trailer is only 7' - 11" wide. The plywood was donated and delivered to SPHS by [Dixieline Lumber & Home Centers](#) in December.

Follow the progress of our students with our monthly Construction Updates.

(continued on page 8)

CONSTRUCTION UPDATE (continued)

San Pasqual High School



In the 5 years that we have published our monthly [Newsletters](#), you have seen Michael McSweeney's name mentioned many times. Michael helped launch the Warrior Village Project at San Marcos High School (SMHS) and has since been a steadfast supporter and contributor to our program. Michael has been with us since Day One of the Warrior Village Project, so it was only fitting that he was at SPHS on Day One of the school's tiny house program.

When he helped us start building our first houses Michael was the Senior Policy Advisor for the [Building Industry Association of San Diego](#). Finding his passion for promoting building trades and working with students, he has moved to the [California Homebuilding Foundation](#) (CHF) as CTE Coordinator. Michael introduced CHF's [Building Industry Technology Academy](#) (BITA) program to SPHS. Michael talked with Holly Wmyss of Dixieline about the history of the Warrior Village Project, our current direction, and why training students in the building trades is so important for our country's future. He also took the opportunity to talk with our students about how the building trades could play an important role in their futures.



Brandon scheduled [Sophia Salah](#), Senior Project Manager - Building Enclosure at [Simpson Gumpertz & Heger Inc.](#), to speak to his class on January 23, so his students covered their house with a tarp during our record rainfall; they will continue to install the subfloor when more favorable weather returns to Escondido.

Sophia is a mentor with the [Women's Construction Coalition](#) [Julia Morgan Society](#) (read about WCC and JMS on page 13). She spoke about her journey from an early interest in engineering, to her studies in structural engineering at UCSD, and to her recent engineering projects.



Sophia also had a challenging project for the students. The students worked in their project teams — in the roles of home owners, architects and construction contractors — to design and build model houses from Lego like blocks. School sure is more interesting and fun that when I matriculated many years ago!

PARTNERS

Women's Construction Coalition - Julia Morgan Society

Julia Morgan (January 20, 1872 – February 2, 1957) was an American architect and engineer. She designed more than 700 buildings in California during a long and prolific career.

Morgan studied engineering at the [University of California](#) (Berkeley). She was often the only woman in her math, science, and engineering courses. She attended Berkeley during a time of growth for women's involvement. Morgan helped to create a chapter of the YWCA which made it possible for women to use the gymnasium. In 1894 Morgan was the first woman to receive a B.S. degree in [civil engineering](#), with honors.

Morgan was also the first woman to be admitted to the architecture program at [l'École nationale supérieure des Beaux-Arts](#) in Paris and the first woman architect licensed in California. She designed many edifices for institutions serving women and girls, including a number of buildings for the Young Women's Christian Association (YWCA) and Mills College. She is best known for her work on [Hearst Castle](#) in San Simeon, California.

In many of her structures, Morgan pioneered the aesthetic use of [reinforced concrete](#), a material that proved to have superior seismic performance in the 1906 and 1989 earthquakes. She embraced the [Arts and Crafts Movement](#) and used various producers of California pottery to adorn her buildings. She sought to reconcile classical and [Craftsman](#), scholarship and innovation, formalism and whimsy. Julia Morgan was the first woman to receive the [American Institute of Architects](#) highest award, the [AIA Gold Medal](#), posthumously in 2014. (From [Julia Morgan article on Wikipedia](#)).

The legacy of Julia Morgan lives on in the [Julia Morgan Society](#) (JMS), a mentoring program of the [Women's Construction Coalition](#). The Women's Construction Coalition (WCC) is a 501(c)3 charitable non-profit organization formed to improve the acceptance of women in the construction industry and to improve the construction industry as a whole. WCC has a strong focus on the mentoring of high school and college level students to become successful, self-confident young professionals and future leaders of the construction industry.



WCC MENTORING

WCC has developed a one-stop, [Mentoring Page](#) that was created to help students, educators, counselors and parents understand and navigate through their career paths, offering:

Direct links to the high schools with related engineering, construction management and architecture classes:

1. Community and State College links.
2. Apprenticeship Training Programs
3. Salary Opportunities & career descriptions
4. Scholarship links available



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PARTNERS

Women's Construction Coalition - Julia Morgan Society (continued)

The WCC Mentoring Committee invites San Diego County female and male high school students to join Julia Morgan Society (JMS) Clubs. Meetings are held each month at the schools with students interested in gaining knowledge and confidence to enter the construction industry. Guest industry speakers explain how they got started in their careers, their job descriptions, and how they meet challenges. Other discussion topics include scholarships, resume building, internships and summer jobs, and visits to jobsites. Julia Morgan Society Clubs are over-seen by the Mentoring Committee and lead by WCC member volunteers who serve as club leaders. WCC has JMS Clubs at: Castle Park High School, San Pascual High School, Poway High School, and San Marcos High School.

Chris introduced me to [Velia Ibarra Hinojosa](#) of [Turner Construction Company](#). Velia, the Chair of the JMS, enrolled SMHS in their Mentoring Program and recruited Misty Little and Diane Barrios of [Baker Electric](#) to lead the SMHS JMS Club. Misty and Diane have planned mentoring activities for SMHS students for the rest of the year. They held an introductory presentation in December, and a presentation by Dave Jones, Prefab Manager at Baker Electric, on the pre-fabrication of electrical systems on January 16.



Misty arranged with her warehouse colleagues for me to pick up the electrical materials Baker Electric donated for our two tiny houses after their January program at SMHS.



Chris and his students are looking forward to future JMS presentations:

- February 20: [Baker Home Energy](#) will install a composite shingle roof and 2 solar panels at SMHS.
- March 19: Baker's [Building Information Modeling](#) (BIM) group will show the students how it all starts with a digital representation of a building.
- April 16: They will do a "field trip" of an SMHS building with a behind-the-scenes look at how the school was constructed by someone who was a part of the build.
- May 14: Kevin Brandt, General Foreman with Baker Electric, will discuss medium voltage and ARC Flash.

At the end of each presentation, the Julia Morgan Society will donate a \$50 Home Depot Gift Card to the school, and at the end of the year JMS will offer three scholarships to Seniors who are interested in pursuing a career in the construction field.

WCC is looking for persons to volunteer with their mentoring efforts. You can join one of their Julia Morgan Society teams at one of the high schools, or help start a club in your local area. WCC is also looking for guest speakers! And oh yes, sponsorships are always needed!

SPONSORS

We are grateful to the [Weyerhaeuser Giving Fund](#) for awarding the Warrior Village Project a grant of \$5,000 through The San Marcos Promise (now [Project Next](#)), in addition to \$4,000 in 2020 and \$5,000 in 2019. One of the focus areas of the Weyerhaeuser Giving Fund is supporting affordable housing and shelter for those in need.

In addition to the grants we have received from the [Weyerhaeuser Giving Fund](#), Weyerhaeuser has donated building materials to San Marcos High School and Poway High School for their construction projects.

Thank you Weyerhaeuser for your continued support of our students and veterans!

[Baker Electric](#) delivers innovative electrical construction projects, specialty services, and renewable energy solutions across all market sectors. Their experience includes projects in healthcare, education, hospitality/gaming, multifamily housing, solar power, public works and more. Baker Electric has relied on the leadership of 4 generations of the Baker family.

President and CEO Ted Baker created an employee stock ownership plan. He believes that when Baker team members own the company, they in turn take care of their company and work hard to make it better. Baker also believes that employees can make communities better through volunteering and supports the participation of Diane Barrios and [Misty Little](#) in the [Women's Construction Coalition](#) Julia Morgan Society Mentoring Program.

So, when I asked Misty if Baker could help the Warrior Village Project with the donation of electrical materials for our tiny houses, I was pretty confident that she would say yes. She "Yes", enthusiastically, and within a few days she had enlisted the assistance of [OneSource](#) and [Rexel](#), vendor partners of Baker Electric. Both agreed to donate electrical supplies for our tiny houses!

[OneSource](#) is an electrical and industrial distributor with 19 locations across California, Arizona, Hawaii, and Baja California, Mexico. The company serves the commercial, residential, utility, contractor, and industrial markets and is an operating company of Sonepar, an independent family-owned company with global leadership in B-to-B distribution of electrical products, solutions, and related services.

[Rexel](#), a global leader in the distribution of electrical supplies and services, serves three main end markets: industrial, commercial and residential. Rexel's purpose: Electrifying solutions that make a sustainable future possible. Rexel's purpose reflects the Group's contribution to the world: provide the solutions and services that will accelerate electrification in personal and professional spaces, infrastructures, buildings and mobility means – including in the domains of HVAC, photovoltaics, electric mobility and industrial automation.



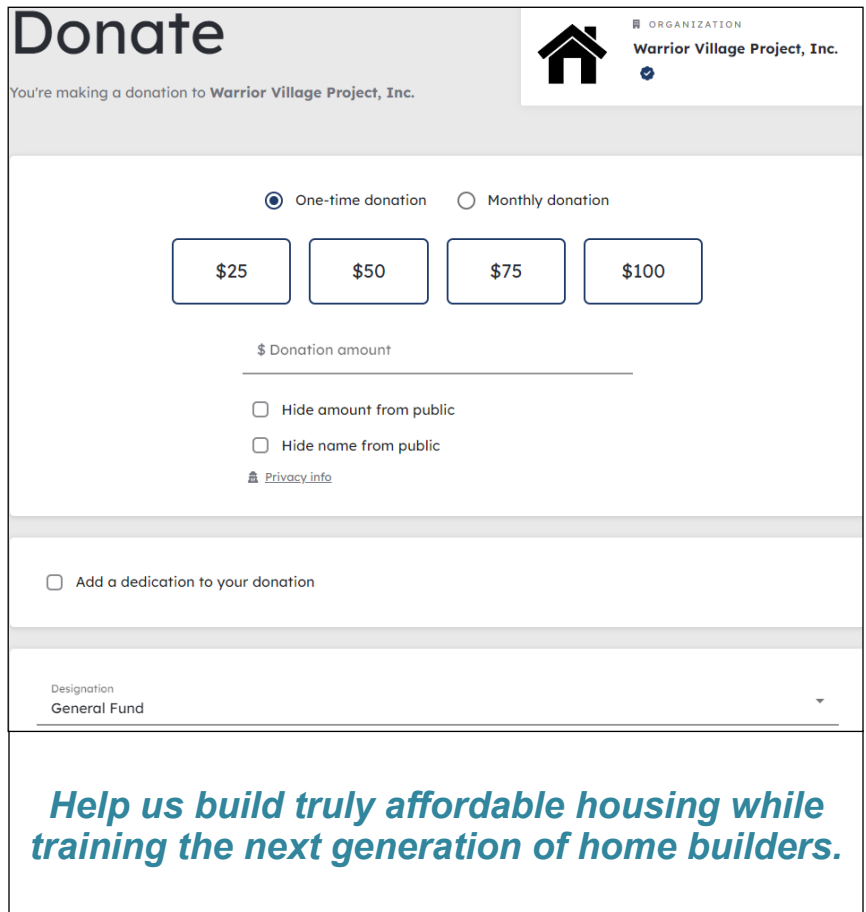
DONATE TO THE WARRIOR VILLAGE PROJECT

The Warrior Village Project has joined the San Diego Gives 2023 Campaign. It is easy to donate to the Warrior Village Project through the [San Diego Gives online platform](#). Your donation will go to the Warrior Village Project General Fund to purchase materials to build Moveable Tiny Houses in high school construction classes in San Diego County.

The trailer foundation and building materials required for one Moveable Tiny House (MTH) cost about \$34,000. The curriculum and the inspection and certification package cost about \$6,000.

The cost of installing an MTH as an Accessory Dwelling Unit will depend on the site. But, it should cost about \$20,000 per house. Hence, we can provide a permanent, fully equipped tiny house for a homeless person for about \$60,000 per unit.

According to the [Turner Center for Housing Innovation at UC Berkeley \(March 2020\)](#): *“Between 2016 and 2019 the costs to develop a new affordable unit under the Low-Income Housing Tax Credit (LIHTC) program have increased from \$425,000 per unit to more than \$480,000 per unit.” “These escalating costs represent a significant challenge to a state struggling with an affordable housing crisis, and erode the impact of the increased public subsidies directed toward building new housing.” Isn’t it time to build truly affordable housing?*



PROJECT CONTACTS

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The San Marcos Promise ..	Lisa Stout.....	760-290-2373 ..	Lisa@TheSanMarcosPromise.org

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If you would like more information about the Warrior Village Project visit our WarriorVillageProject.com website, or email Mark@WarriorVillageProject.com. You can also subscribe to our monthly [Newsletter](#).