



WARRIOR VILLAGE PROJECT®

501 (c)(3) Nonprofit

The Bugle: Vol 7, Issue 1, January 2025

www.WarriorVillageProject.com

PROGRESS REPORT

I am frequently asked if I know where our Moveable Tiny Houses will be going when they are completed. The short answer is no, not yet. One of the advantages of building Moveable Tiny Houses is that they are built to a national code (ANSI), so we can build them without knowing where they will be sited.

It is difficult to estimate when our houses will be completed. Our students have a very limited amount of time each week to work on their houses. They typically have four classes per week, three classes 45 to 55 minutes long, and one 'Block Day' 1-1/2 to 2 hours long. The short days are usually used as lecture periods. Most of the physical work gets done on the one Block Day each week. Building is interrupted by holidays, rainy days (although not this year!), testing periods, and other school demands. Our students also participate in other worthwhile activities like building models of wood framed structures, preparing for and participating in the [Design Build Competition](#) and [Skills USA](#), and taking field trips to the [AGC Apprenticeship Training Center](#), the [Electrical Training Institute](#) (ETI) and construction sites.

[Nick Mosley](#) provides the [Tiny House Inc.](#) building curriculum and certification program that we are following at San Marcos, San Pasqual and Rancho Buena Vista High Schools. Nick's program has been used by over 70 schools across the country. No school using the program has completed the construction of their first house in one academic year. Our schools are all building their first tiny houses. It is very unlikely that we will complete any of our houses before the end of this academic year. But, we hope to be able to build future houses in one academic year after we better understand the construction process and how to balance the educational goals for our students with the desire to build more quickly.

Our vision is to build villages of our tiny houses to provide homeless veterans permanent, affordable housing in a supportive, community environment. Toward this end, we continue to reach out to like-minded nonprofits who could partner with us to develop and operate a veterans village. We want to provide the houses to a nonprofit that will deploy them to house veterans, operate the village, and provide wrap-around services as needed.

In the meantime, we are working with Ellen Stone of [Tiny Home Central](#) et al to find opportunities to install our Moveable Tiny Houses as Accessory Dwelling Units (ADUs). Our tiny houses can legally be installed as ADUs in the City of San Diego. They are also legal in the cities of Fresno, Los Angeles, Oakland, Riverside, San Jose and San Luis Obispo, as well as in the counties of Humboldt, Mendocino, Placer, San Benito, Santa Clara, and Sonoma. Ellen and other tiny home community advocates are working to legalize our tiny houses as ADUs in San Diego County and the remaining 17 incorporated cities in the County. The options for the placement of our houses are increasing as we build our capacity to build tiny houses.

IN THIS ISSUE

Progress Report	1
VIP Profile	2
School Construction Updates.....	3
Partners.....	10
Sponsors.....	11
Donate	12

EVENTS

Design Build Competition
April 9 - 10
Huntington Beach

VIP PROFILE Our Students

Poway Unified CTE Pathway Spotlight TK-12: Construction & Building Trades

“The construction and building trades industry is a cornerstone of California’s economy, contributing \$158 billion, or 3.9%, to the state’s GDP in 2024. Employing over 922,000 workers, the sector remains a key driver of infrastructure and housing development, encompassing a wide range of trades such as carpentry, electrical work, and plumbing. The construction and building trades are working to recruit labor from a variety of backgrounds including initiatives designed to bring in more women and people from underserved communities to help address labor shortages in the skilled trades.”

Poway Unified School District is committed to preparing students for this incredibly dynamic field through our TK-12 CTE (Career Technical Education) Pathway programs, which provide mentorship and hands-on experience in the Construction & Building Trades sector. Join us in ensuring our students are ready to enter this growing industry!”

Poway’s Construction & Building Trades CTE Pathway evolved from a four-week Builders Bootcamp workshop at Mt. Carmel High School in the summer of 2021. At the Bootcamp 23 students started building a [Moveable Tiny House](#). The project transformed to an after school program in the Fall of 2021 and then to a full [Construction & Building Trades CTE Pathway](#) in 2022.

Poway Unified School District’s “CTE Construction & Building Trades Pathway is proud to announce the successful completion of the Mobile Tiny Home project! This hands-on initiative provided students with invaluable experience in construction, design, and project management, all while fostering problem-solving skills and creativity. Students learn framing, drywall, flooring, kitchen and bath cabinetry, plumbing, electrical and installation of finishes. The finished mobile tiny home stands as a testament to their hard work and perseverance, and we couldn’t be more excited to see their efforts come to fruition! This accomplishment is a true reflection of the student talent and determination within our program. The total cost for materials for this project is approximately \$60k but the value of experience for students is immeasurable.”

The construction of Poway’s Tiny House was funded by CTE grants through the Poway Unified School District; as required by law, it is for sale in a Public Surplus Auction.

Ctrl Click on [Public Surplus: Auction #3657797](#) to make your bid.

The auction ends on February 5.



Read more about Poway’s Tiny House project in the [San Diego Union Tribune](#) (August 18, 2021) and our [September 2022 Warrior Village Project Newsletter](#).

CONSTRUCTION UPDATE, SMHS MTH #1

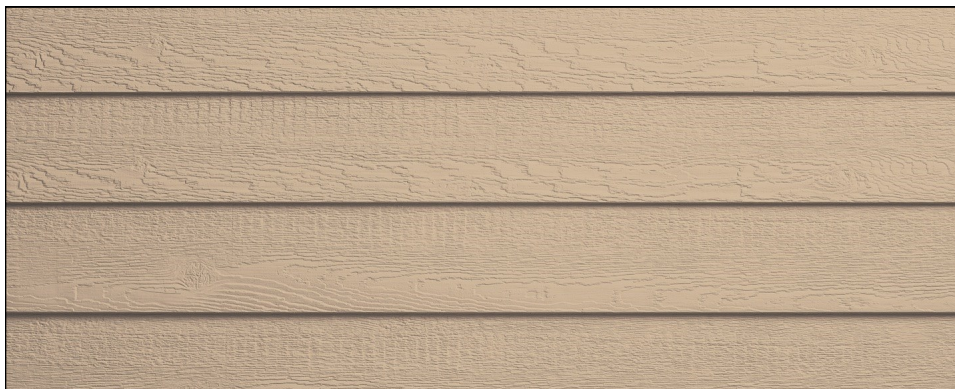
- Chapter 1 Trailer
- Chapter 2 Framing
- Chapter 3 Rough Plumbing
- Chapter 4 Rough Electrical
- Chapter 5 Wall Sheathing
Roofing Shear
Moisture Barrier
- Chapter 6 Roofing
- Chapter 7 Windows & Doors
- Chapter 8 Exterior
Exterior Trim
Finish
- Chapter 9 HVAC
Venting
- Chapter 10 Insulation
- Chapter 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
Submission

San Marcos High School: MTH #1

Our San Marcos students returned from their Winter Recess on January 6 eager to get back to work on their two Moveable Tiny Houses, SM MTH #1 and SM MTH #2. Our students are still working to install the Rough Plumbing and Rough Electrical in MTH #1.

Pulling PEX tubing for the Water Supply lines and laying out and assembling the Drain-Waste-Vent (DWV) system has proven to be challenging for our students. They are learning that decisions made in the framing of our houses impact the placement and routing of tubing, pipe and electrical components, giving them a better appreciation of the interaction between the trades.

As the month came to a close, our students started prepping MTH #1 for the installation of the exterior siding. The first step was assembling and installing vertical corner trim pieces. Then they will frame the windows and insert trim pieces in the vertical inside corners around the Bump Out in the front of the house and the Utility Box at the back. Our 8" x 16' [Lap Siding](#) pieces will "die into" the trim pieces.



CONSTRUCTION UPDATE, SMHS MTH #2

San Marcos High School: MTH #2

- **Chapter 1 Trailer**
- **Chapter 2 Framing**
- Chapter 3 Rough Plumbing
- Chapter 4 Rough Electrical
- **Chapter 5 Wall Sheathing**
- Roofing Shear**
- Moisture Barrier
- Roofing
- Chapter 6 **Windows** & Doors
- Chapter 8 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
- Submission

We were fortunate that it did not rain over the Winter Recess. So, MTH #2 was dry when our students returned to school. They proceeded to start installing the roof and house wrap to weatherize the house.

One team measured, cut and installed 30 lb felt roofing paper with 1 inch plastic cap roofing nails. A second team started cutting 9 ft wide, WeatherSmart house wrap donated by [Weyerhaeuser](http://Weyerhaeuser.com). They stapled the house wrap to the house with hammer tackers.

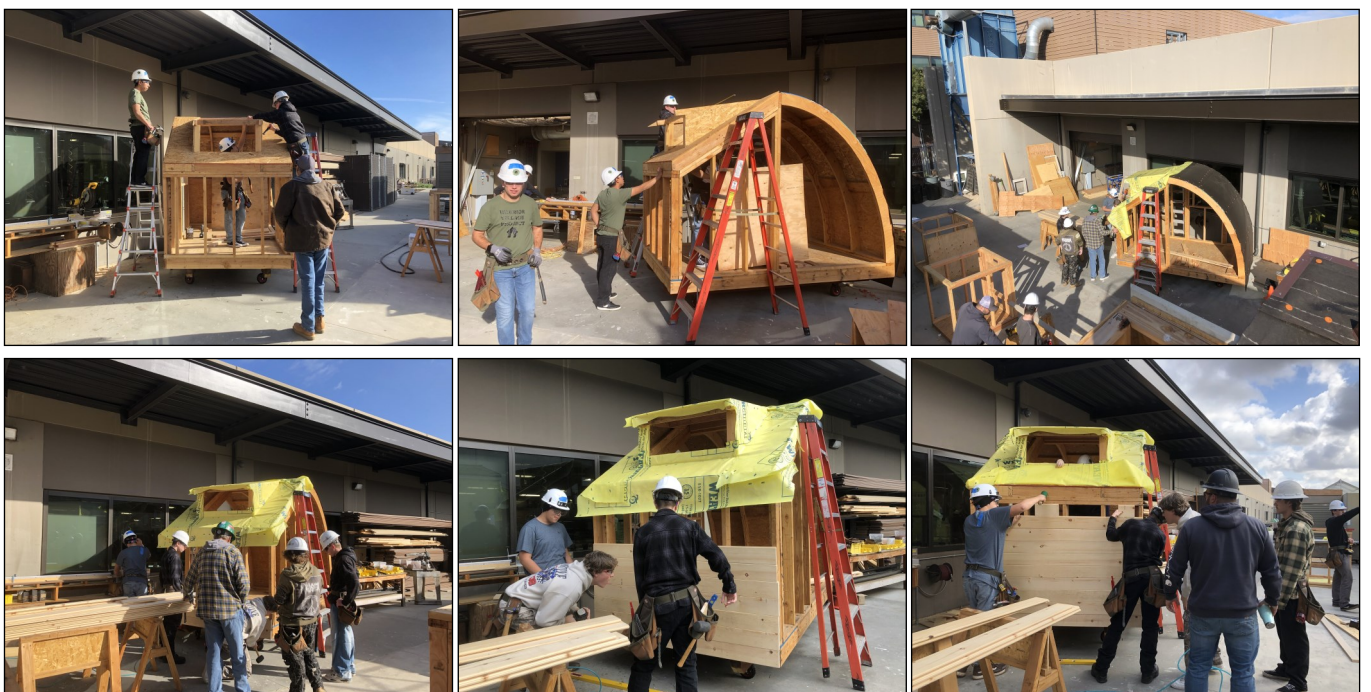


CONSTRUCTION UPDATE, SMHS MTH #2

A different team of students started installing the Rough Electrical in MTH #2. They have the advantage of being able to learn from the experiences of their classmates who installed the Rough Electrical in MTH #1. It is handy for them to step next door to see where the electrical outlet and switch boxes were installed and the wiring was routed in MTH #1.



While one group of students is working on MTH #1, and another is working on MTH #2, a third group of students is working to hone their carpentry and teamwork skills while building a play house in preparation for the [Design Build Competition](#) in Huntington Beach on April 9 - 10. The Design Build Competition is not only a test of building skills, it is a race against the clock. The teams have to be ready to hit the ground running with a plan for working quickly and efficiently if they are going to complete their project in two days. Each team member needs to understand their role in the game plan.



CONSTRUCTION UPDATE, SPHS

San Pasqual High School: MTH #1

- **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 & Doors
- Chapter 8 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
Submission

Our San Pasqual students returned from their Winter Break on January 7, eager to get back to work on their Moveable Tiny House, SP MTH #1. Michael McSweeney was just as eager to work with a small group of students one-on-one to complete some final framing in preparation for installing 1/2" CDX exterior plywood sheathing.

The first day back to work they replaced blocking that was split when nailing the steel strap around the house and inserted top cripples (studs) on the front rake wall.



CONSTRUCTION UPDATE, SPHS



January 29 was a big day at San Pasqual High School. Michael McSweeney was back on campus to continue working with our students to rework some framing to get the house ready for the installation of the exterior Wall Sheathing. He was joined by a crew of three professional plumbers from the [Escondido Union High School District](#) to help teacher Brandon Tarrac and his students with the installation of the [Drain-Waste-Vent](#) (DWV) system.

The plumbers had to drill through the trailer belly pan, as well as through the edges of the trailer chassis, for the toilet and shower drains (one of the disadvantages of trailer foundations). This was not easy work.



CONSTRUCTION UPDATE, RBVHS

- **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 & Doors
- Chapter 8 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
Submission

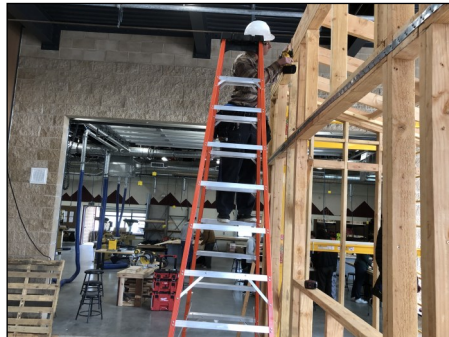
Rancho Buena Vista High School: MTH #1

Our Rancho Buena Vista students returned from their Winter Recess on January 8. To ease into a new semester, Landon Cardenas' students assembled balsa wood scale models of houses. Building the models taught them about the placement and relationship between studs, headers, rafters, etc.

We delivered a set of 3 [Milgard](#) windows to Rancho Buena Vista and San Pasqual donated by the [Miter Foundation](#) and our supporters at the Milgard factory in Temecula. To date, the Miter Foundation has donated 12 windows to the Warrior Village Project!



Under the direction of teacher Landon Cardenas and Michael McSweeney, our students installed additional [blocking](#) between the studs and rafters and planed rough edges of the rafters and studs.



PARTNERS Home Builders Institute (HBI)

Empowering the Next Generation of Skilled Workers



Building Careers. Changing Lives.

The Home Builders Institute (HBI) is a national leader in workforce development for the construction industry and is proud to be a member of the [DoD Skillbridge Program](#). HBI offers cost-free, hands-on training in residential construction to transitioning military service members, veterans, and their families. With the approval of their chain of command, service members can participate in the 12-week program at the HBI training facility in San Marcos, conveniently located near San Marcos High School.

HBI is now authorized to expand its program to include not only transitioning service members, veterans, and their dependents, but also extended family members with military connections. This new opportunity means that nieces, nephews, cousins, and other relatives of military families can attend HBI's program at no cost. The training focuses on essential trades such as carpentry and electrical work, equipping participants with real-world skills, industry-recognized certifications, and a strong foundation for a successful career in construction.

To further enhance its educational offerings, HBI has partnered with [Action Air](#), a Southern California HVAC and Solar company serving San Diego and Riverside Counties. Action Air will provide HBI students classroom and hands-on training during their 4 - 6 week [Action Air Academy](#) at its San Marcos facility to help the students gain entry into the HVAC industry. Action Air Academy includes OSHA 10 Safety and Health and EPA Certificate training.

In previous newsletters, we have highlighted HBI's support of the Warrior Village Project ([August 2023 Newsletter, page 5](#)) and [Wounded Warrior Homes](#) ([January 2024 Newsletter, page 2](#)). HBI is excited to announce a new partnership with [Habitat for Humanity San Diego](#), where HBI students will have the opportunity to apply their training to meaningful volunteer projects, gaining valuable experience while giving back to the community.

Through HBI's comprehensive training programs, which include 80% hands-on experience and an 85% job placement rate, HBI is committed to meeting the growing demand for skilled labor in the construction industry while supporting military families in their transition to civilian careers.

For more information about HBI's training opportunities, visit HBI's [website](#) or contact Nina Ridgley directly at NRidgley@HBI.org or (202) 680-0472.



San Diego
Habitat
for Humanity®

PARTNERS
Home Builders Institute (HBI)

**HOME BUILDERS INSTITUTE
MILITARY SERVICES DIVISION**

*DOD SkillBridge training for
transitioning soldiers, veterans, and
military dependents*



**Building Careers.
Changing Lives.**



HBI's transitioning military and veteran program creates a unique opportunity through **job readiness** and **career connections** to jump start transitioning soldiers, veterans, and military dependents into their career in the skilled trades.

Our Pre-Apprenticeship Certificate Training programs feature **industry-leading skilled trade curriculum** and **high quality employment connections** to set our students up for success as they enter the world of construction

**Carpentry & Electrical
Curriculum available at:**

- Camp Pendleton, CA
- Fort Bliss, TX
- Fort Cavazos, TX
- Fort Liberty, NC
- Fort Campbell, KY
- Fort Carson, CO
- Fort Riley, KS
- Fort Stewart, GA
- Norfolk, VA

**Carpentry, Plumbing &
HVAC Curriculum
available at:**

- Jacksonville, FL

Thanks to grant funding by *The Home Depot Foundation*, training is **NO COST** for our military students.



To apply or for more information, please contact our team at **military@hbi.org**



SPONSORS



DONATE TO THE WARRIOR VILLAGE PROJECT

The Warrior Village Project has joined the San Diego Gives 2024 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 and consumables required for one Moveable Tiny House (MTH) cost about \$44,000. 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 \$70,000 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?



2024 Campaign

<https://sandiegogives.mightycause.com/donate/Warrior-Village->

We need to raise \$80,000 to purchase materials to complete the four Moveable Tiny Houses we are building at San Marcos High School, San Pasqual High School and Rancho Buena Vista High School.

