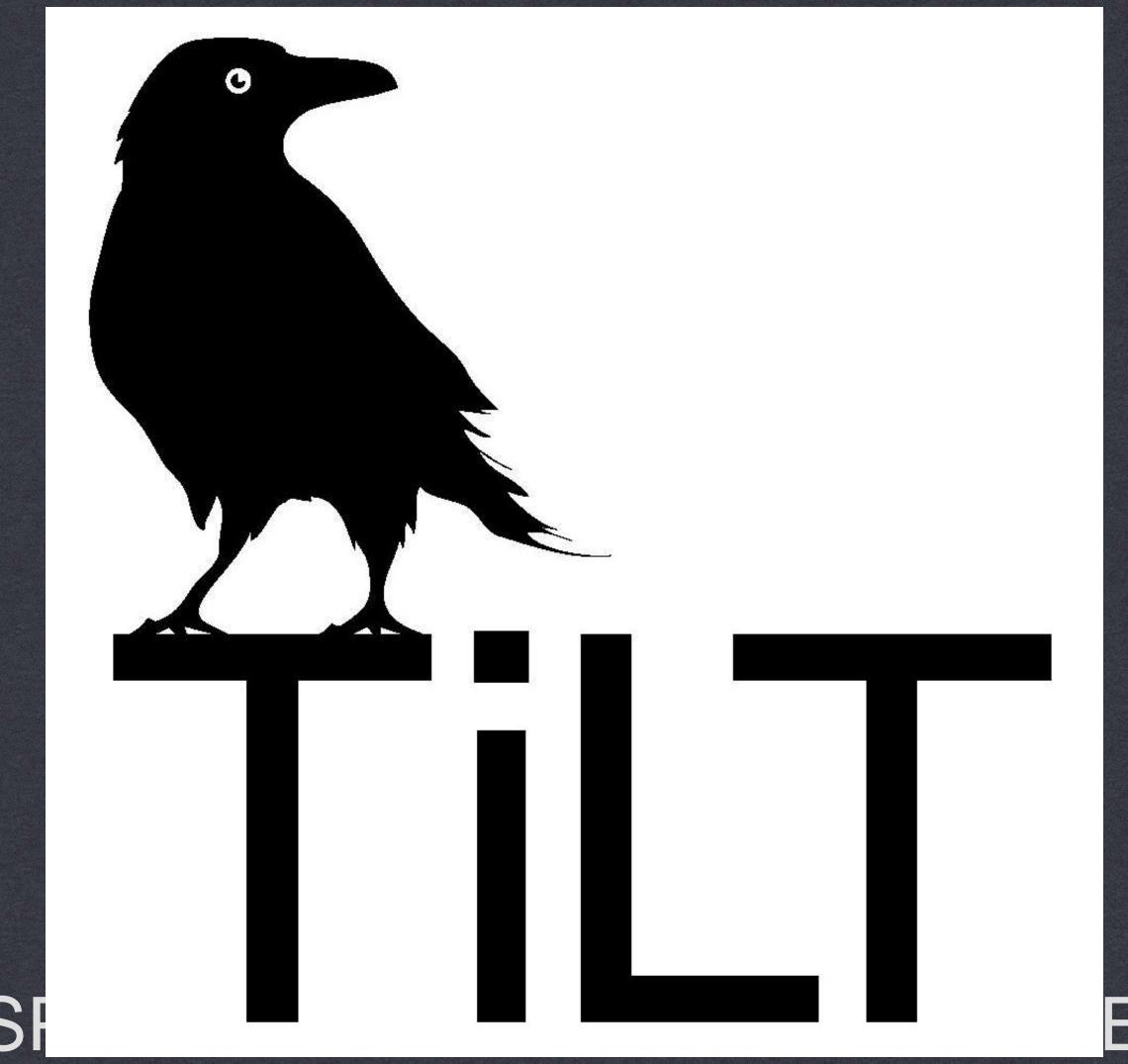


PROJECT

INCUBATED BY TILT [TAOS INITIATIVE FOR LIFE TOGETHER] A 501C3 ORGANIZATION AN INCUBATOR FOR PERSONAL & SYSTEMIC CHANGE



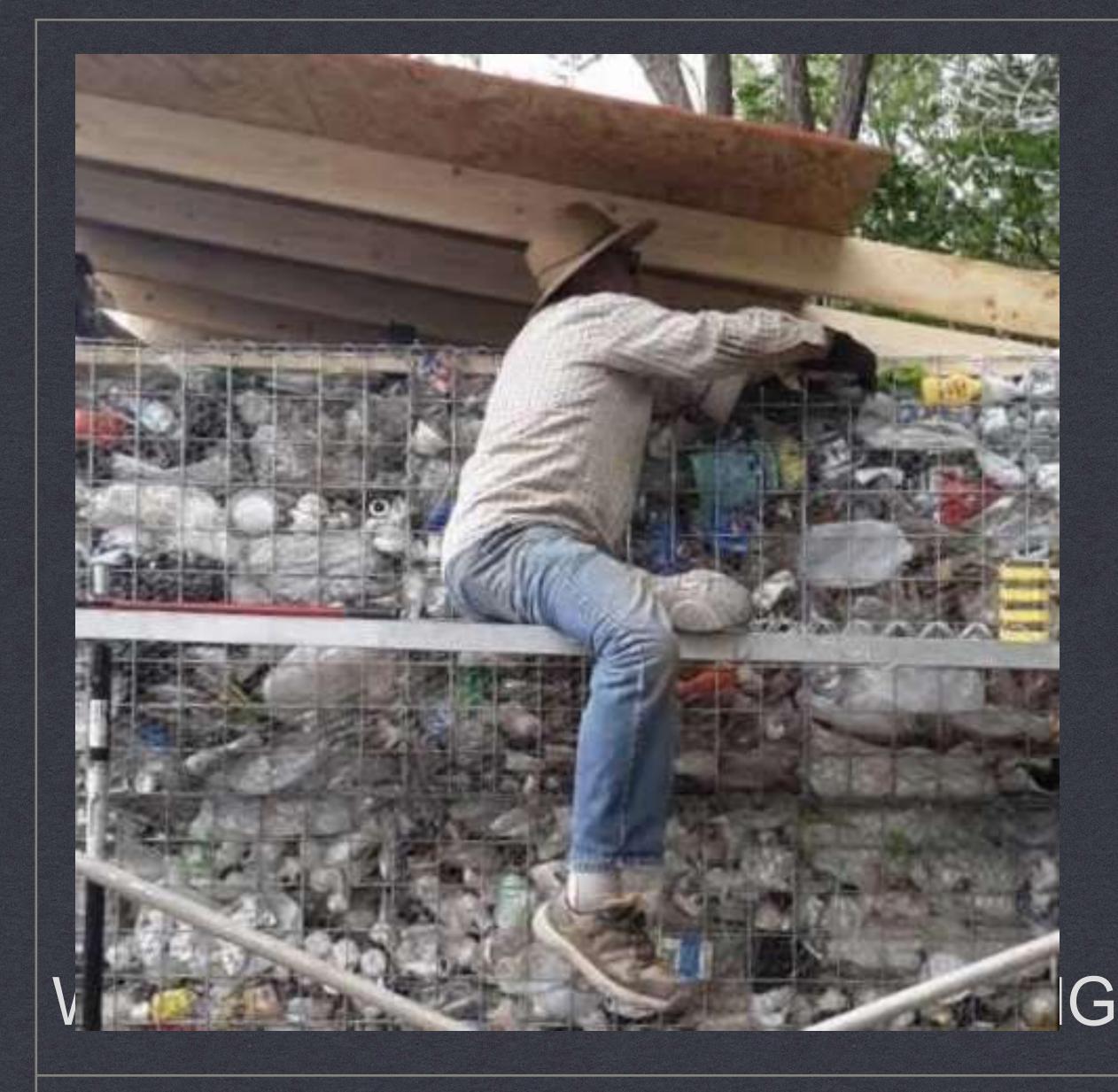


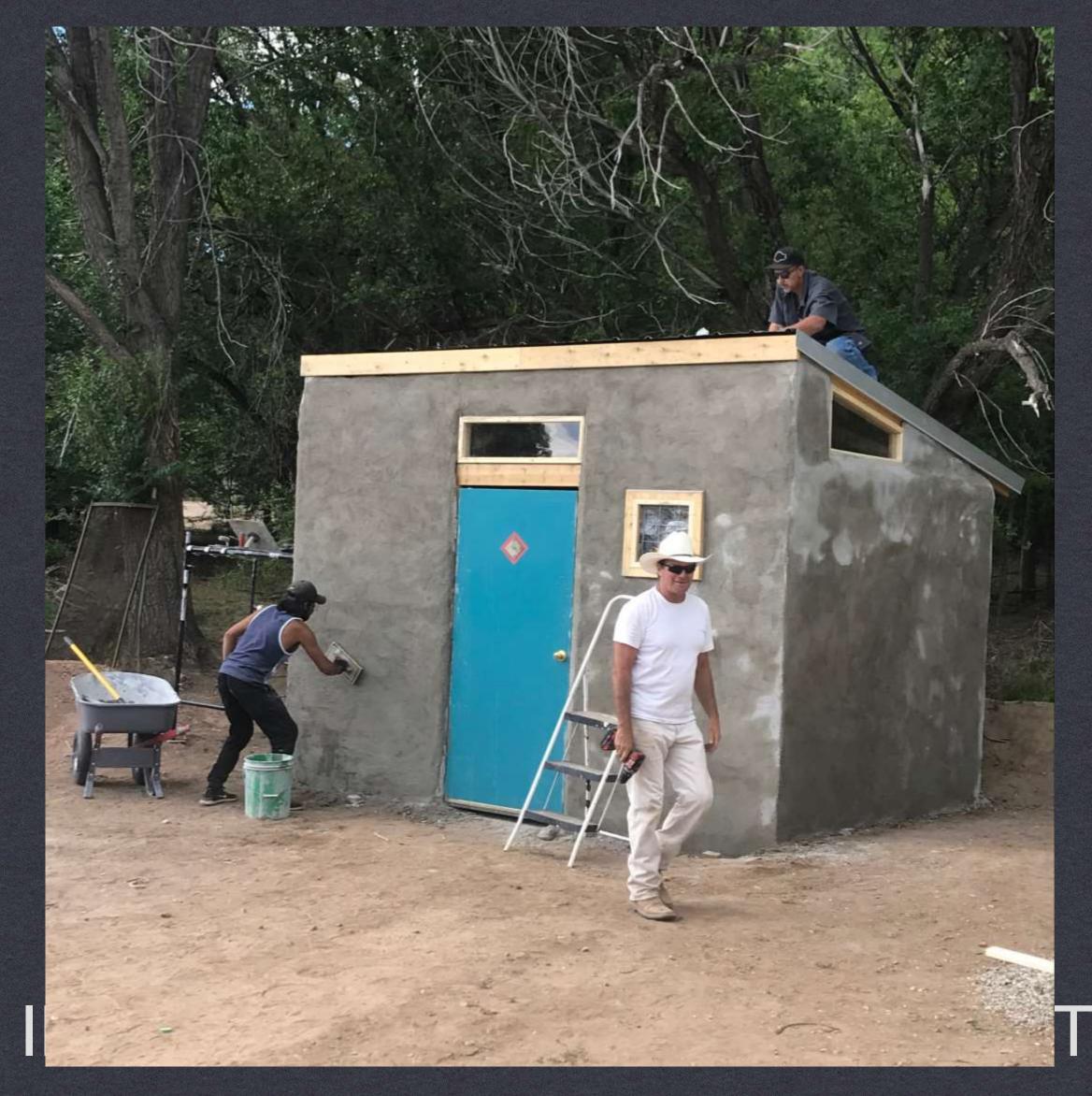
E LOR FOUNDATION FOR THEIR

SUPPORT & BELIEF



RECYCLING CRISIS





A SHED





MODULAR PANELS



BUSINESS

A CREATIVE ECONOMIC INITIATIVE EMERGING IN TAOS & QUESTA, NEW MEXICO TODDWYNWARD@GMAIL.COM REPURPOSINGPLASTICTAOS.COM





"RYNO" HERRERA

350 MEMBERS PAY US TO TAKE THEIR CLEAN WASTE PLASTIC, THEN WE COMPRESS IT IN A HYDRAULIC BALER





STUDIOS

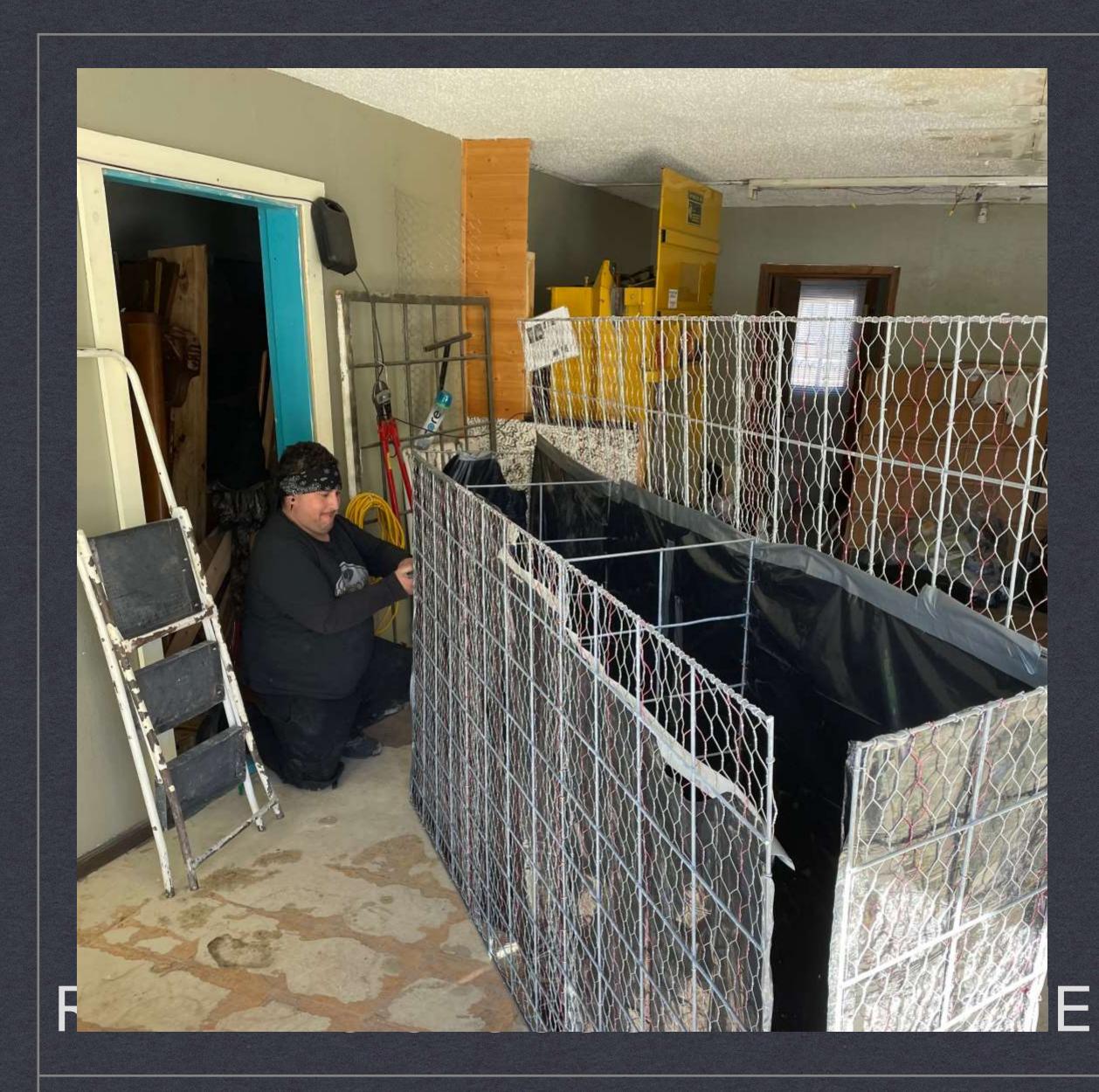


CEMENT SLAB





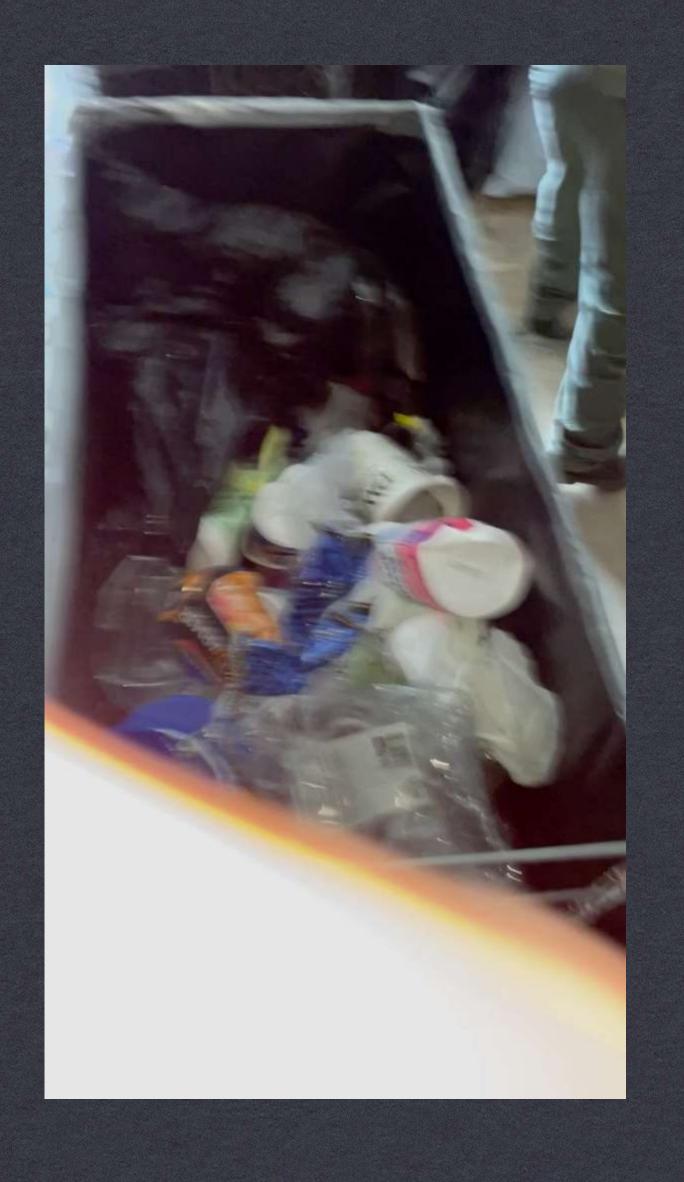
FROM PANEL FENCING





PLASTIC SHEETING

TWICE A WEEK OUR TEAM SMASHES PLASTIC AND CREATES REDI-WALLS AT OUR WORLD HQ IN QUESTA, NM

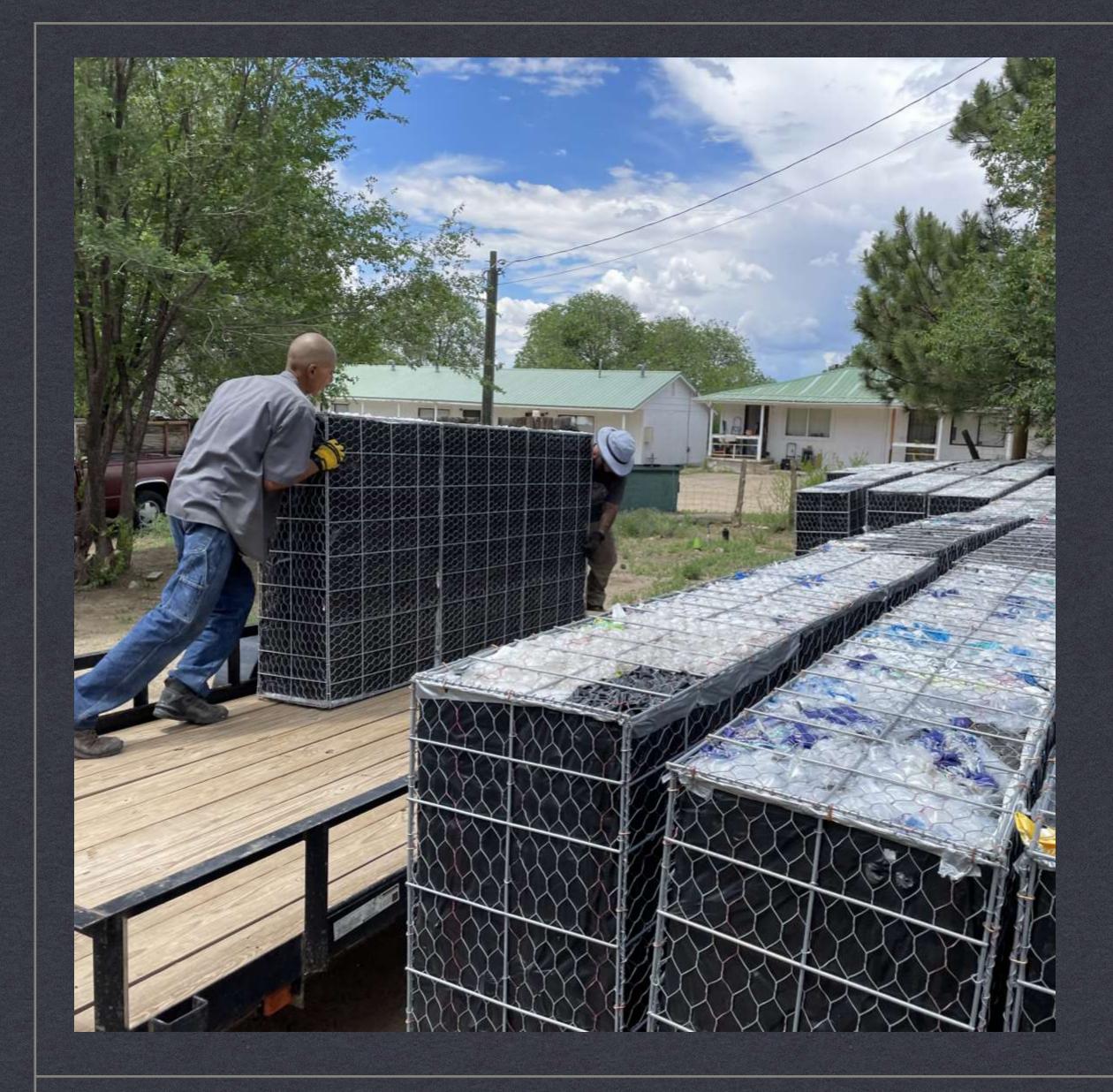




BASKETS



TRAILER





MOVING REDI-WALLS FROM THE TRAILER TO OUR STORAGE LOT



PROJECTS



RED

SITE

PLASTIC PROJECT

TURNING WASTE INTO WALLS IN TAOS, NM



Plastic is truly a space-age building material, so why not treat it as such?

Plastic is incredibly lightweight yet has a high tensile strength, is impervious to water, can be shaped and condensed easily, and is only affected by UV light. Once encased by a thick coat of cement stucco within our Redi-Walls, it is entombed in an anaerobic environment absent of oxygen or sunlight where it will not degrade or outgas. It also has a shape memory, and once crushed tries to return to the fabricated shape. This process creates pressure pushing outward, which helps make our panels extremely rigid and have a significant insulation value.

Www.repurposingplastictaos.com

PANELS FILLED WITH POST-CONSUMER
PLASTIC—READY TO STUCCO!



 MODEL
 Dimensions
 Wt: Metal
 Wt: Plastic

 Big Boy
 96" x 50" x 16"
 95 lbs
 190 lbs

 Thin Man
 96" x 34" x 16"
 64 lbs
 126 lbs

OUR PANELS CAN BE USED IN TWO WAYS:

- 1) They can be stabilized on a rubble foundation in a foot-deep trench to create safe walled spaces for play, gardens, courtyards, parking areas, etc.
- 2) They can be used as sheathing/insulation/infill walls when supported by post and beam structural support to construct structures such as sheds, barns and garages.



Contact us at RPPTaos@gmail.com for unit pricing and free initial consulting for your own building project!

REDI-WALL BROCHURES & POSTERS

REPURPOSING PLASTIC PROJECT'S REDIGIONALLS



WHAT MIGHT YOU MAKE?



privacy wans & courtyards





carports & warehouses

DO THE RIGHT THING: REPURPOSE!

studios & workshops

PRICED TO SELL

READY TO STUCCO

VOLUME DISCOUNTS

DELIVERY AVAILABLE

To register for RPP to repurpose your household plastic:

repurposingplastictaos.com

For Redi-Wall purchases and creative project consulting:

toddwynward@gmail.com

RPP's Redi-Walls: Stucco-Ready Panels

SPEC SHEET & PRODUCT DESCRIPTION

DOUGLAS J. EICHELBERGER, ARCHITECT P.O. BOX 1135 RANCHOS DE TAOS, NM 87557 303-956-5859 eichelbergerarchitects@gmail.com

HISTORY:

The Repurposing Plastic Project [RPP] was born in 2020 by the Taos Initiative for Life Together [TiLT] in response to China no longer taking the world's recycling, and Taos County's choice to stop local plastic collection. A group of community members crushed over 400 large bags of post-consumer plastic into the walls of a 10' x12' shed they constructed as a demonstration project, showing a way for the Taos community to keep plastic out of the landfill while finding a positive, constructive use for the plastic. Two years later, this initial volunteer project is now a small business. RPP collects plastic from 350+ dues-paying members county-wide and uses an industrial baler to compress this plastic inside of steel wire panels to manufacture 8' long modular wall sections called Redi-Walls. Easy to install and stucco-ready, they can be used to quickly construct privacy walls, pocket patios, sheds, barns, windbreaks and garages.



Fig 1: work crew building a privacy wall w pocket patios, Questa

SOCIAL BENEFIT:

By doing one thing—collecting Taos County's plastic & repurposing it to make walls—we're doing a lot of things:

- · Offering hope to hundreds of local citizens who are deeply concerned with the closure of the local recycling facility
- · Repurposing rather than simply recycling—actually putting "trash" plastic to use, and turning waste into walls
- · Diverting plastic from the landfill, reducing the toxic legacy of deteriorating trash plastic we leave for future generations
- · Reinvigorating Questa's mainstreet and creating an economic innovation hub in an abandoned storefront
- · Offering meaningful employment and a positive team environment to people with a history of incarceration & addiction

ENVIRONMENTAL SOLUTION:

Plastic is a 'forever' material. We use it for so many things and for so many silly one-time uses. Yet there is no place to throw plastic away—there is no 'away.' Once made, plastic is always with us on this planet—in our homes, in our hands, in our bodies, in our streets, in our waste streams, in our water. Waste plastic is one of our society's most serious problems today. The RPP solution is to take this problem and transform it into potential. Plastic is truly a space-age building material, so why not treat it as such? It it is incredibly lightweight yet has a high tensile strength, is impervious to water, can be shaped and condensed easily, and is only affected by UV light. Once encased by a thick coat of cement stucco within our Redi-Walls, it is entombed in an anaerobic environment absent of oxygen or sunlight where it will not degrade or outgas. It also has a shape memory, and once crushed, tries to return to the fabricated shape. This process creates pressure pushing outward, which helps make our panels extremely rigid and have a significant insulation value.

INTRODUCING THE REDI-WALL, MANUFACTURED BY THE REPURPOSING PLASTIC PROJECT RPPTAOS@GMAIL.COM 1

RPP Redi-Walls: Specifications, Processes, & Uses

OUR FABRICATION PROCESS:

RPP Redi-Walls [pre-fabricated modular wall sections] are manufactured at our processing facility and world headquarters in Questa, NM. We have a 4" diameter ram-crushing hydraulic baler (fig. 2) that pre-crushes the post-consumer plastic we collect weekly from our 350+ members. The crushed plastic is then put into prefabricated baskets made of heavy-gauge steel wire panels and compacted again before the baskets are wired shut. Our professional team uses pneumatic guns to mechanically clamp metal hog-ring fasteners that reinforce and frame each basket. The completed Redi-Walls go to our storage yard in Questa, ready for sale.

DETAILS of RPP's REDI-WALLS: READY TO TRANSPORT; READY TO STUCCO

Materials: Each Redi-Wall consists of post-consumer plastic compressed inside of a steel cage or basket made of #4 (1/4") heavy-gauge gridded fencing. The same steel is used to create the top, bottom and sides of the cage as well as internal diaphragms to stabilize and reinforce the wall panel shape. Black plastic sheeting and chicken wire line the inside of each Redi-Wall so it is ready to stucco.

Density: On average, the plastic in our RediWalls is smashed to a density of 4.28 lbs of plastic/sf.

Fire Resistance: The Fire Resistance Rating of a 7/8" stucco coating is one hour, which is the minimum required by code for homes. For exterior structures like patio walls and utility sheds that are not needing to comply with residential building codes, we generally apply a 3/4"coat of stucco, which would mean a Fire Rating of slightly less than an hour. Note: without stucco, our RediWalls do not have a Fire Resistance Rating.

Each Redi-Wall is made of more than 95% [by volume] recycled New Mexico plastic.

MODEL	Dimensions	Weight: Metal	Weight: Plastic	Volume of Plastic Used
Big Boy	96" x 50" x 16"	95 lbs	190 lbs	44.4 cubic feet
Thin Man	96" x 34" x 16"	64 lbs	126 lbs	29.9 cubic feet







Fig 2: 4" diam ram-crushing baler Fig 3: Redi-Walls at our Questa HQ Fig 4: plastic walled post & beam barn INSULATION VALUE:

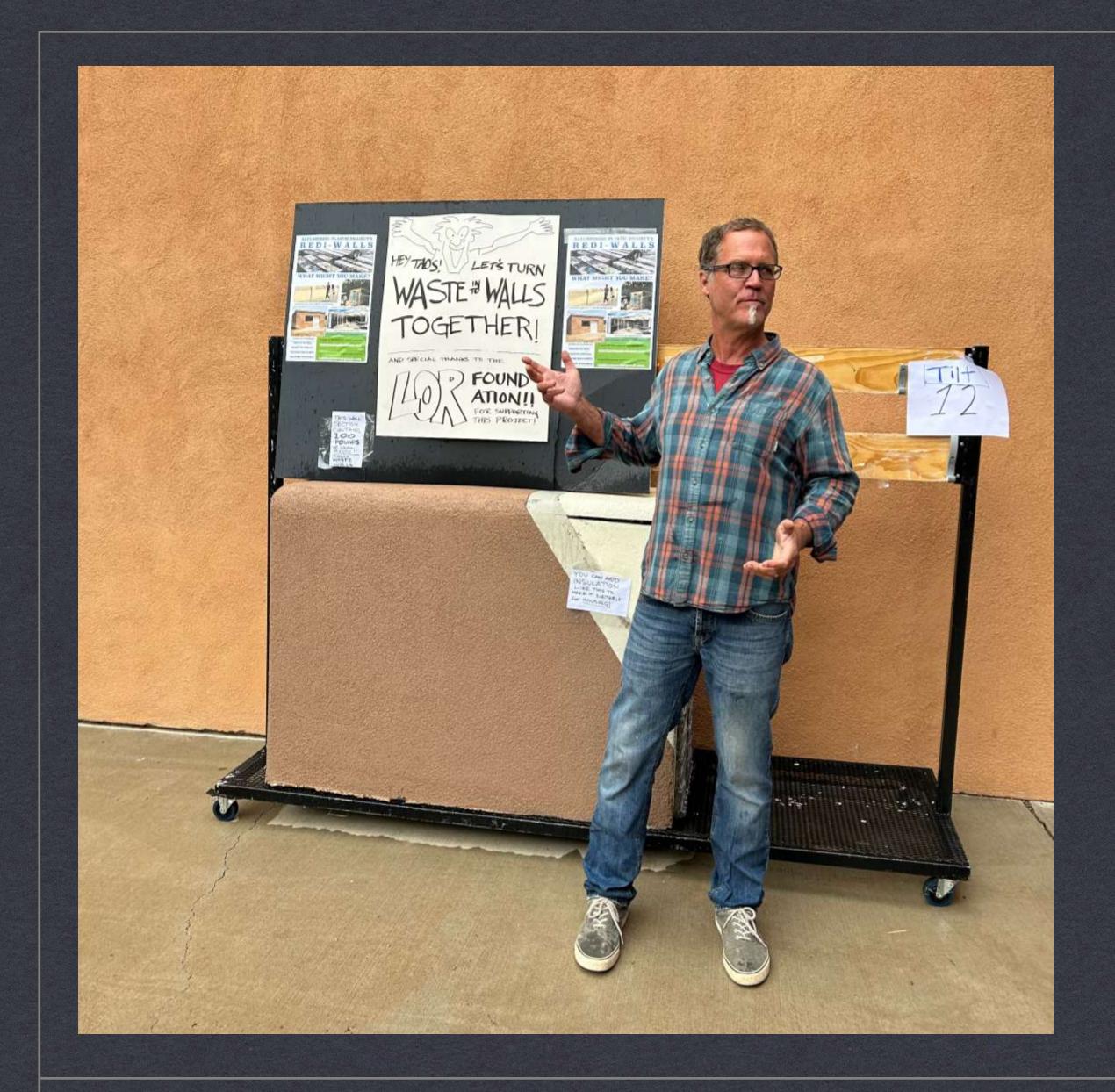
A sample panel was tested by architect Doug Eichelberger and a team of engineers at Johns Manville Manufacturing Company in Denver, CO and was found to have an R value of approx. R-1/ inch. Our current panels are more dense and should exceed that value, but this is not certain. Further tests are ongoing.

OUR PANELS CAN BE USED IN TWO WAYS:

- 1) Privacy walls and pocket patios (fig. 1) can be created by stabilizing the panels on a rubble foundation in a foot-deep trench, to create safe spaces for play, garden courtyards, parking areas, etc.
- 2) Supported by post and beam structural support, our panels can be used as sheathing/insulation/infill walls to construct structures such as sheds, windbreaks, barns and garages (fig.4).

We welcome other innovative uses and creative applications of our product by DIY backyard builders, community groups and professional contractors alike. For sales or questions, contact rpptaos@gmail.com.

(YARD





CUSTOMER EDUCATION SESSIONS



OUTREACH INTO THE COMMUNITY



MAKERS & INNOVATORS



ATTENTION

MOBILIZING OUR VOLUNTEER BASE







FOOT]





REDI-WALLS???



PRODUCT EXPO AT TILT IN DOWNTOWN TAOS



PRESENTING OUR REDI-WALLS TO TAOS COUNTY SOLID WASTE



HUMAN HABITATION?

TAKING THE RPP REDI-WALL TO THE NEXT LEVEL, #1: A PROFESSIONALLY-BUILT CARPORT/WORKSHOP

- ARCHITECT-DESIGNED PLANS
- P&Z APPROVED
- VERTICAL APPLICATION
- INFILLING POST & BEAM STRUCTURE

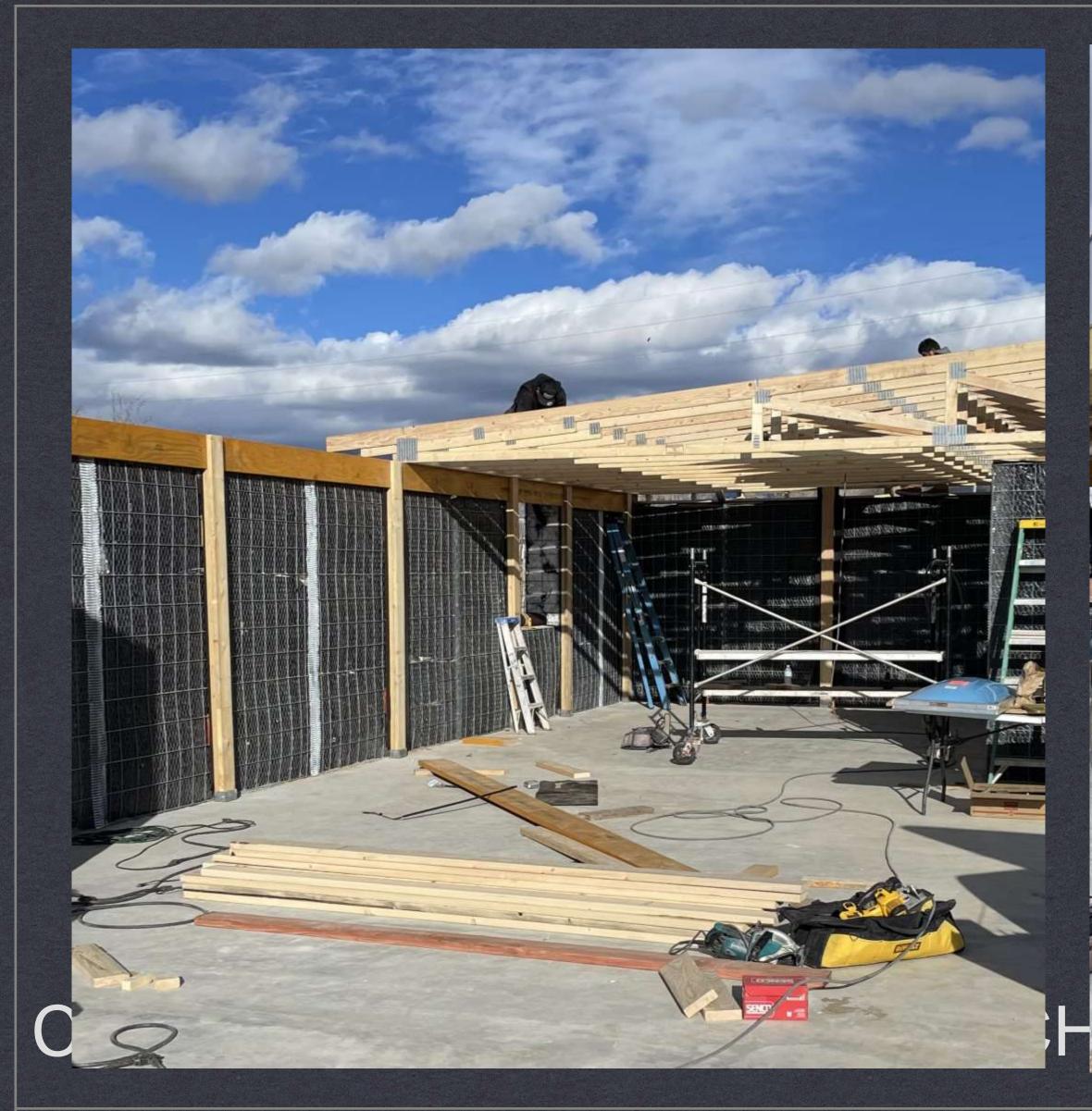




PROJECT

VERTICAL REDI-WALLS WERE USED AS INFILL IN POST & BEAM STRUCTURE







TAOS COUNTY P&Z

TAKING THE RPP REDI-WALL TO THE NEXT LEVEL, #2: INSTALL A PARKING WALL FOR AN ECO-HOTEL

- •OUR FIRST INVOICE PRODUCED FOR A CORPORATE BUSINESS CLIENT!
- •TRENCH EXCAVATION & STUCCOING NOT INCLUDED

TILT [TAOS INITIATIVE FOR LIFE TOGETHER] & THE REPURPOSING PLASTIC PROJECT

Attn: Hotel Associates LLC 10 E. Yanonali St Suite 109 Santa Barbara CA 93101

Project Title: RPP Wall Project Hotel Willa. Date: 7/1/23

Project Description: This scope of work consists of delivering, installing & attaching 162 linear feet of privacy wall, ready to stucco. Excavation & stucco work not included. Invoice #:010-2022. Terms: 50% in advance; 50% within 30 days of completion. Checks to

be issued to: TiLT and mailed to: 215 La Posta Rd Taos NM 87571

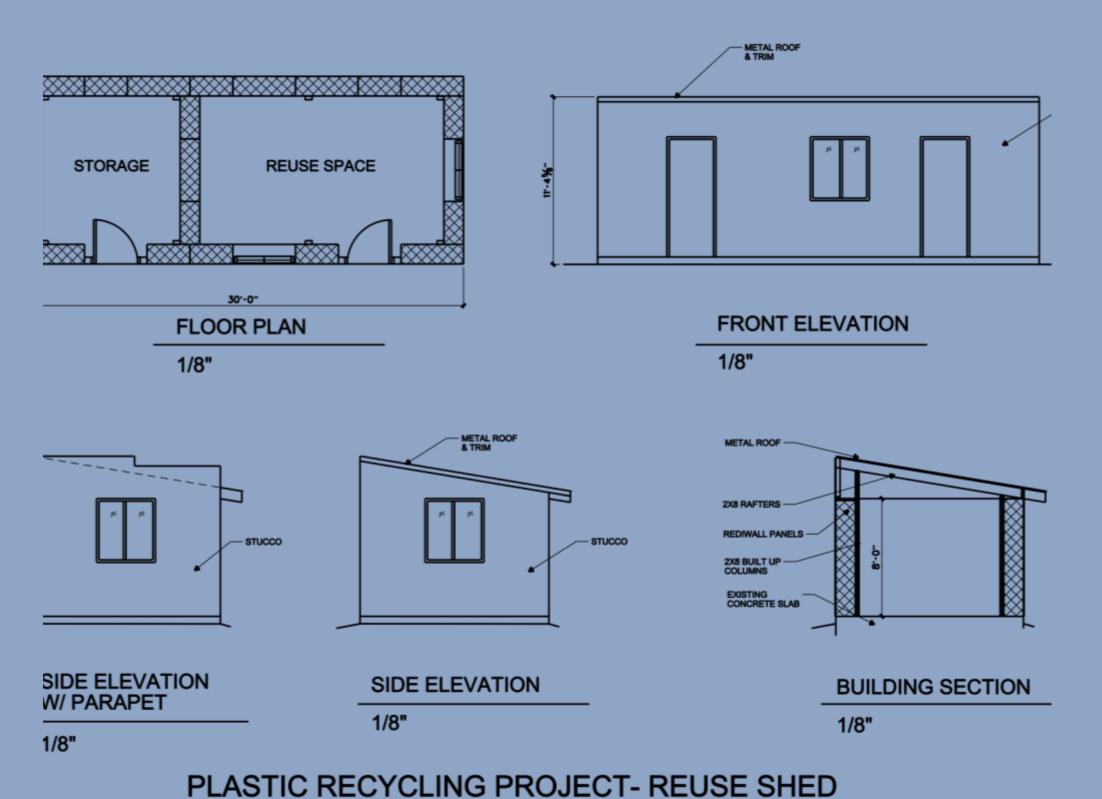
Description	Quantity	Unit Price	Cost
LABOR			
Delivery of 20 RPP modular walls from Questa	3	\$200.00	\$600.00
Site Prep: improve trench, tamp, level 50 tons gravel in 162' of trench [2 man crew]	2	\$80.00	\$160.00
Carry, Install & dry-fit 20 250 lb wall sections in trench [4 man crew]	3	\$160.00	\$480.00
Monolithic attachment all Redi-walls using pneumatic hog ring gun; lath all joints backfill and tamp for final stabilization; complete all prep for plastering [4 man crew]	8	\$160.00	\$1,280.00
Concrete caps on all wall top surfaces [4 man crew] 162 If of concrete	4	\$160.00	\$640.00
Design consulting & project management	16	\$35.00	\$560.00
MATERIAL			***************************************
8' x 50" x 16" RPP modular wall section, ready to stucco	20	\$275.00	\$5,500.00
Materials: sand and gravel delivered; cement, lath, hog rings, rebar, etc			\$1,342.50
Equipment Rental: pneumatic hog ring gun, cement mixer		,	\$300.00
		Subtotal	\$10,862.50
Overages/Contingencies		10.00%	\$1,236.00
Tax		None	Ψ1,230.00
Due to TiLT/Repurposing Plastic to install & connect 162 ft of walls		Total	\$12,098.50

By signing below, Hotel Associates LLC pledges to send a deposit of \$2500 in the next 30 days, and confirms its intent to commence this project before June 2024.

toddwynward@gmail.com 215 La Posta Rd,

575-770-8681

Taos NM 87571





PLASTIC RECTCLING PROJECT- REUSE SHED

TAKING THE RPP REDI-WAL

A RAID GRANT TO BUILD A RE-USE COLLECTION

SHED MADE OF RE-USED PLASTIC!

WHATEVER WE BUILD, WHEREVER IT'S SEEN, WE WANT THE TRUTH:

THE TRUTH WINDOW, THAT IS!





SCALABLE—BUT IT REQUIRES SUPPORT FROM LOCAL GOVERNMENT & MARKET EMBRACE BY THE LOCAL COMMUNITY



TURNING WASTE INTO WALLS IS A COMMUNITY EFFORT

TODDWYNWARD@GMAIL.COM

RPPTAOS@GMAIL.COM

REPURPOSINGPLASTICTAOS.COM