

Cabarrus Bilingual Preschool

Freedom By Design UNC Charlotte

August 2016-May 2017 Project Binder



The Team



Niko Wilk_Director

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Email: nwilk@uncc.edu

The Director acts as the primary link between the local AIAS chapter FBD program and the AIAS National Office. They are responsible for general oversight of the program, attending the annual AIAS Freedom by Design track at AIAS Grassroots, leading client interviews and overseeing the selection process, and periodically with support from their chapter president, updating the AIAS board on the progress of the program. Leads weekly meetings with other FBD officers, and communicates with AIAS officer board to make sure events and projects are running according to plan on schedule and organizing events based on a collaborative set of goals and calendar.



Aaron Sochacki_Project Manager

Phone: (704) 806-3860
Email: asochack@uncc.edu

Responsible for overseeing a specific Freedom by Design project, including establishing the schedule, coordinating the building approval process, and coordinating team members. Oversees the major aspects of the build project in coordination with other officers, mentors, and clients. Responsible for developing the schedule of charrettes and build days for the project to keep it on schedule and completed on time.



Maura Witzel_Design Developer

Phone: (336) 693-5859
Email: mwitzel@uncc.edu

Responsible for developing a fundraising strategy and locating donated materials. Vital position during the design development and construction detail phase of the build project. Responsible for organizing the purchase and prep of materials for the build project as well as understanding the details of the project.



Ronald Oziogu_Treasurer

Phone: (980) 348-8757
Email: roziogu@uncc.edu

Responsible for coordinating with the Design Developer to document the budget as well as record the materials purchased from the chapter's banking account. The treasurer helps to send donation request letters to eligible companies willing to help support the chapter's project, as well as see what investments the board can make for fundraisers.



Kacie Ward_Secretary

Phone: (908) 894-3869
Email: kward50@uncc.edu

Responsible for recording the progress of the team and assembling presentations for the AIAS Office. Takes notes during officer meeting and group events for the archive and for distributing assignments for each officer per week. Also responsible for organizing presentations for public events.



Mariel Hamer_Historian

Phone: (704) 989-2129
Email: mhamer1@uncc.edu

Responsible for recording the design and build process throughout the calendar year. Also responsible for creating event advertisements via Instagram, Facebook and prints within the architecture studios.

Project Narrative



Client Names: Cabarrus Bilingual Preschool
Primary Contacts: Spencer & Aurora Swain

Project Address: 985 Central Drive NW, Concord NC 28027



Freedom by Design at UNC Charlotte seeks to engage and activate our own campus and the surrounding community through purposeful and innovative design. This past year we worked with Cabarrus Bilingual Preschool to design and construct the foundation for the preschool's motor skills rubber track, along with minor adjustments of the interactive fence station panels.

As our second phase of the project with Cabarrus Bilingual Preschool, we had a previously established relationship with the clients of the school, Spencer and Aurora Swain. We also had a strong understanding of the site - an enclosed playground complete with interactive wooden station panels featuring games, garden planters, and weaved ribbon that blocked views from outside surrounding businesses that we had designed and built the previous year. While the kids enjoyed using the stations, most of the backyard was still open for more development. Our clients' vision were to have a "test" track that would be able to test the preschooler's motor skills, as the track would feature bumps and different angles of turns. We hoped to create this track along with filling its interior shape with outdoor "rooms" that could also test the children's motor skills, such as a tire mound. To implement this vision, we have received student-involvement on our own campus through design charrettes, building workshops, and build days.

By understanding the need of the preschoolers and the families that they come from, the mission of CBP is to help the students receive the proper care they need during their young stages of development so they will be able to achieve success in their lives without prior setbacks.

Project Narrative Cont.

Due to learning about how weathering conditions affect the materials (especially wood), we also spent time making adjustments from last year's project. The plinko board originally in place featured wooden dowels that were held by the wooden panel via adhesive and minor knots to hold the pieces in place. Over time, the adhesive became worn due to weather and extensive use by the preschoolers, making the dowels fall from the board. Our solution to replace the wooden dowels with rebar and to fully drill holes through the wooden panel so that the board rebar would be supported via nuts on either side. To make them animated as the rest of the fence, we painted the rebar different colors.

The condition of the fence became fragile over the past year. Due to weather and erosion on the ground, the fence seeped towards the playground, but was held up from completely falling due to the fence panels. We removed the fence panels and put them back on after the new fence poles were set in place.



Budget and Fundraising

\$82.02 Plink Board Replacement Hardware

- \$21.96 Everbilt 3/8 in Zinc Plated Cut Washer
- \$19.14 Everbilt 3/8 in -16 tpi Zinc Plated Hex Nut
- \$31.03 Carriage Bolts
- \$9.89 Spray Paint

\$100.00 ABC Unspecified Crushed Stone

- \$420 DONATED: 21 tons of stone
- \$100 Stone delivery

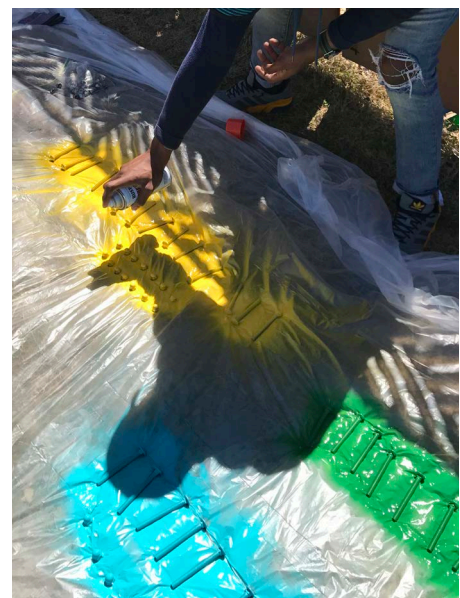
\$0.00 Site Marking Materials

- FREE DONATED: Rebar
- FREE String, from last year

\$102.01 Other

- \$9.95 Gloves
- \$16.04 Socket Wrench Set
- \$8.98 Drill Bits
- \$67.04 Pickup truck rental
- FREE DONATED: Plate Tamper
- FREE DONATED: Bobcat Skidsteer
- FREE DONATED: Mini Excavator

\$284.03 Project Total (as completed so far)



Professor Auction + Movie Night Series + Bake Sale + Pizza Sale + Donations

As we investigated materials and the design development phases of the Freedom By Design Project, we looked to local hardware stores for monetary and material donations. We found that the most effective manner for acquiring these donations was to bring a flyer with pictures of the current project, in person to each of the stores and speaking with the managers. We also have a strong relationship with our school's AIAS chapter, and we work with them to get donations. At the beginning of the semester, we agreed that the monetary donations that AIAS receives were to be split: 80% to AIAS and 20% to Freedom By Design and vice versa for donations that FBD receives.

Not only were donations a big part in fundraising for this project but we also looked to our School of Architecture and the Charlotte AIA chapter for donations which was the largest funding source for the 2016-2017 project.

As a separate manner of raising money, we have coordinated a Professor Auction, in which we have asked architecture professors to be auctioned off by students in groups up to 4 for the evening. This event brought us \$922. We also initiated the Professor's Choice Movie Series, which we work with a specific professor to host a movie for funds. In total, these events brought us \$95. The bake sale and pizza sales were also successful endeavors towards our project. Students baked and donated goodies to be sold to other students, while the pizza sale was a profit made off of bought Dominoe's pies. In total, the events brought us \$260 and \$208, making the total funds made this year at \$1,485.



The Freedom by Design Professor Auction

[GREG SNYDER] - A PICNIC AT LONG FARM
[KEN LAMBLA] - MULTI-GENERATIONAL BUFFET
[CHRIS BEORKREM]
ERIC SAUDA
JEFF BALMER] - YUM DIM SUM
[MCKENZIE CANADAY] - DINNER AT THE MILLS
[DAVID THADDEUS] - LEBANESE DINNER
[JOHN NELSON] - FROGMORE STEW
[CHRIS JARRETT] - BX3
[MARC MANACK] - NOTHING FANCY
[CHARLES DAVIS] - A NIGHT IN TUSCANY
[ALEX CABRAL] - FOOD SO FAB, THE SHIRAZ CRAY
[DALE BRENTROP] - SALSA VERDE CHICKEN POBLANOS

What An auction that acts as our main fundraiser for the year. Student will have the chance to have dinner provided to them by the professor of their choosing.

When This Wednesday - Wednesday 8th at 6:00 pm (right after studio)

Where The Salon - Storrs

Why To help provide funding for our 2017 FBD Project - The Cabarus Bilingual Preschool playground project.

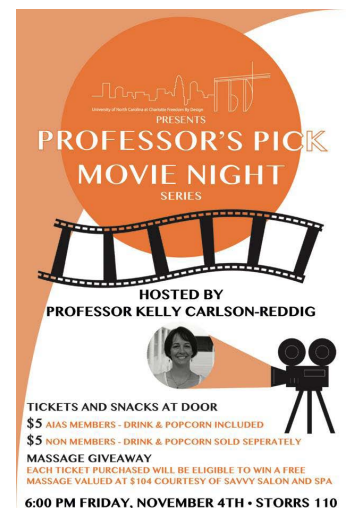
How In groups of 2-4 students, bid on your favorite professor(s) in a live auction

For Updates Like our page on Facebook and follow the Professor Auction Event.



WEDNESDAY, FEBRUARY 8TH @ 6PM
STORRS SALON

CASH OR CREDIT FOR BIDDING



PRESENTS
**PROFESSOR'S PICK
MOVIE NIGHT
SERIES**

HOSTED BY
PROFESSOR KELLY CARLSON-REDDIG

TICKETS AND SNACKS AT DOOR
\$5 AIAS MEMBERS - DRINK & POPCORN INCLUDED
\$5 NON MEMBERS - DRINK & POPCORN SOLD SEPARATELY
MASSAGE GIVEAWAY
EACH TICKET PURCHASED WILL BE ELIGIBLE TO WIN A FREE
MASSAGE VALUED AT \$104 COURTESY OF SAVVY SALON AND SPA
6:00 PM FRIDAY, NOVEMBER 4TH • STORRS 110

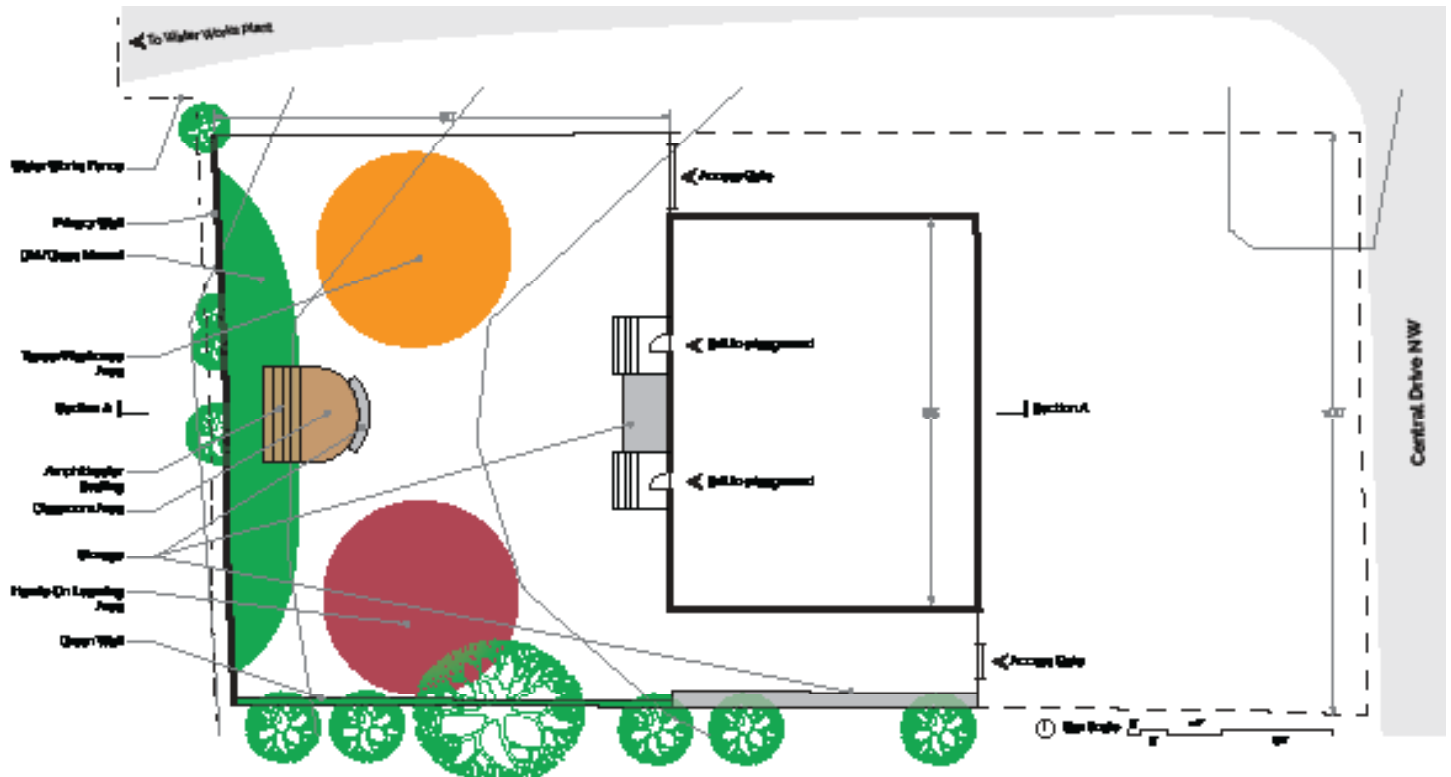


FREEDOM BY DESIGN
**ST. PATTY'S DAY
BAKE SALE**

CASH
OR
CREDIT

11-2 PM IN THE SALON
FRIDAY, MARCH 17TH

Site Photos - Sept 14, 2016



Design Charrette #1



Design Charrette 1 focused on fostering ideas for the shape of the track and the areas encompassed by it on the site. Students, from all year levels were given broad guidelines about safety, size, and materials, followed by site information and photos. The outcome of the charrette included whimsical and dramatic forms that led to investigations of program placement and foundation stability. We gained the concept of creating outdoor rooms of different shapes within the form of the track to allow the kids to understand the depth of different spaces. We compiled the top designs and adopted a combination of ideas from this charrette and adopted it as the starting place for the form of the track.

Design Charrette #2



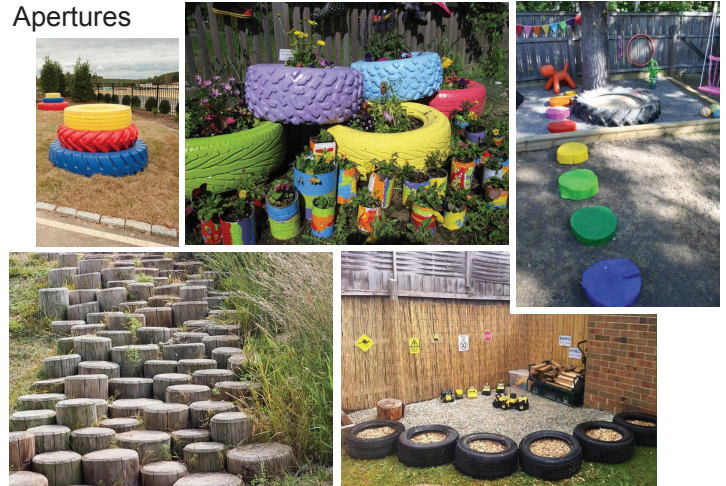
Design Charrette 2 was aimed at developing the concept of outdoor rooms around the track, refining details according to the budget of our project. Spencer and Aurora Swain, the founders of Families First and clients at Cabarrus Bilingual Preschool attended the charrette and helped to guide questions to productive ideas. We investigated various materials and methods to create the look, texture and form that is appropriate for the mission of the track. Aspects of enclosure, circulation, and activities involving touch (like climbing tires) were explored through sketches. The program surrounding the track was questioned by exploring interactive activities for young children. This was the last major point of input and intervention from students, besides the Freedom By Design officers, during the design phase of the track.

Precedent Studies

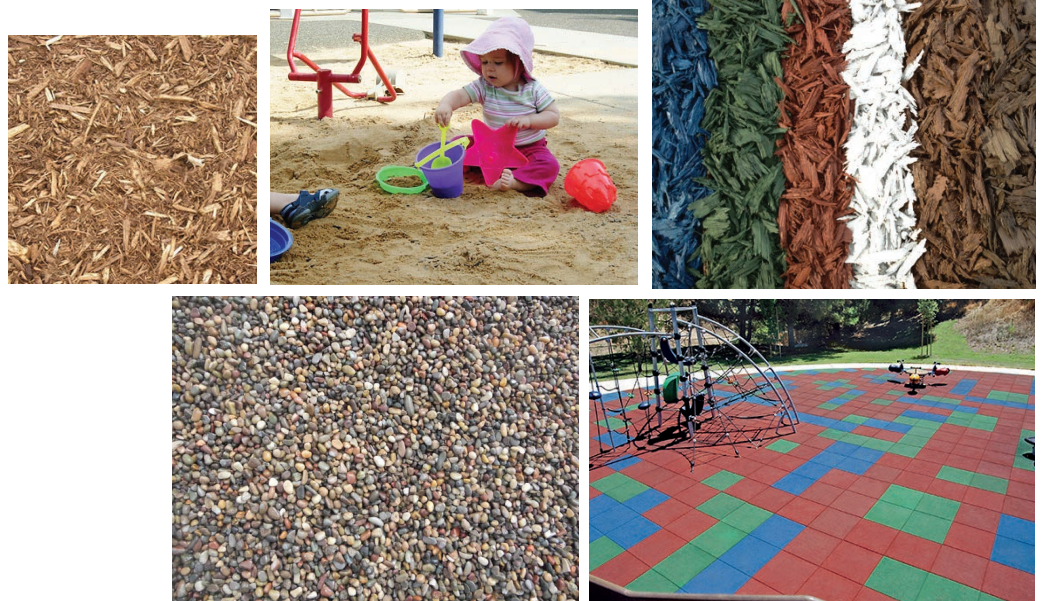
Racetrack



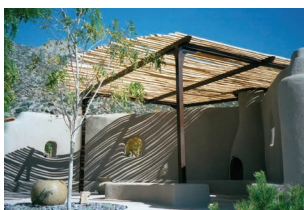
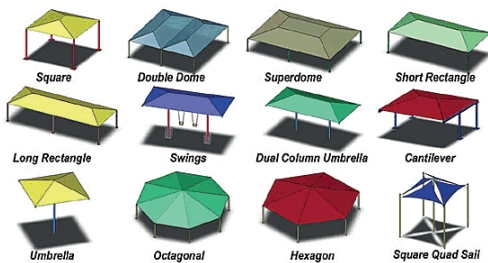
Apertures



Materials



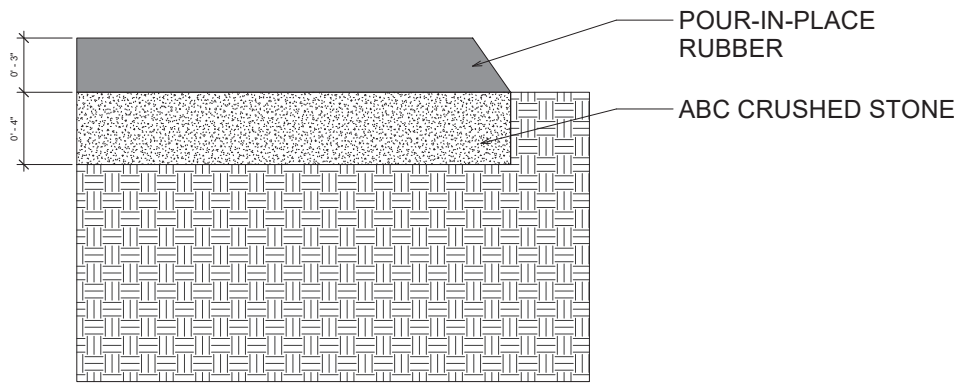
Shading



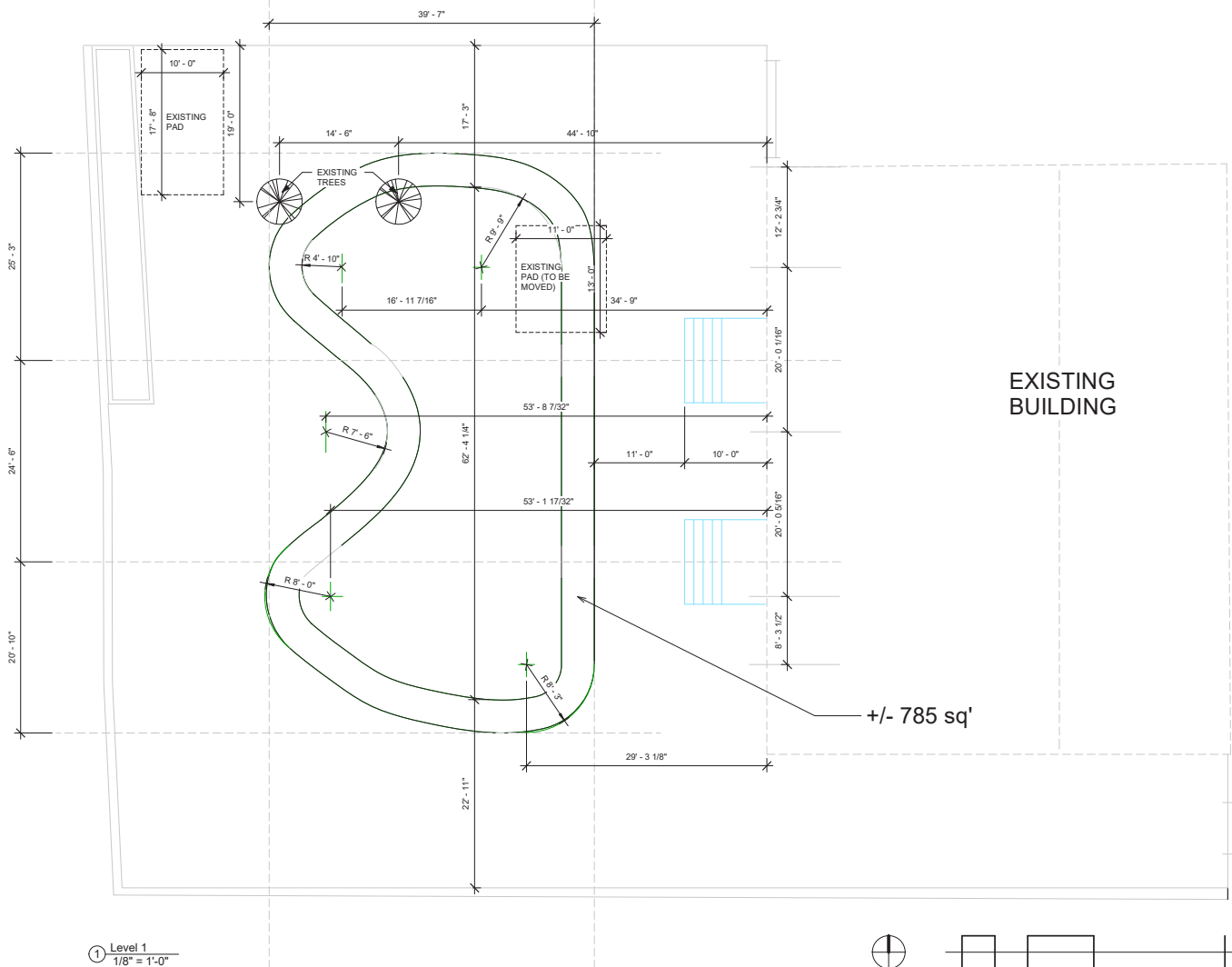
The pictures above obtained from Pinterest and Google Images helped to portray the materiality, form and functional detail of what the track should be like. The structure of the outdoor classroom was also considered, since a current outdoor tent is being used on site, above wood mulch chips and movable log seating.

We considered rubber tiling for the ground since its texture is the most safe for children playing. Since this project did not require much structural detailing, the design, function and appeal is what mattered most for this project.

Design Proposal



② GROUND CONDITION
3" = 1'-0"



After integrating the ideas made from the second charrette, we decided to create this form for the track, as it is able to be used for different functions. The “straight shot” calls out a linear course for kids, while the other two turns call for different angles for kids to ride on, each with different complexities. We figure that with various forms, teachers will be able to detect any issues the preschoolers will have turning and guide them to follow the course. The track is made of crushed stone below pour-in-place rubber. A company our client has hired will pour the rubber while we have prepared the stone.

Build Day 1

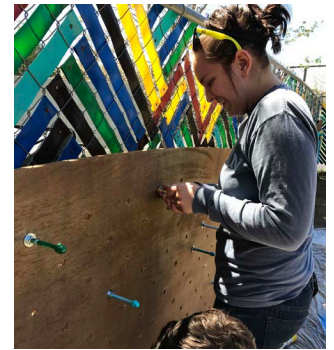
Site Priming and Foundations



Part of the first build day consisted of preparing the ground for the rubber pour to be done. The site was first measured to determine where the track would be placed, then marked by pressing rebar into the ground and wrapping the boundary with string. Following the string, we dug the ground roughly 4 inches deep to prepare filling the hole with 21 tons of rock. Once the rock was filled, we smoothed the rock and cleaned up the surrounding site.

Build Day 2

Fence Panel Repairs



The second build day was spent making minor repairs to the fence, which was part of last year's phase of the project. We re-installed some fence panels. Additionally we made repairs to the stain and paint, and installed new hardware to the plinko board. This required some people to spray paint the new plinko pieces, others to install it, and others to work on re-installing and sprucing up the fence panels.

Thank you to the participants of both build days:

Mackenzie Helm, Mariel Hamer, Santiago Mesa, Aaron Sochacki, Maura Witzel, Ronald Oziogu, Nicholas Wilk, Kacie Ward, Eric Mura, Jim Leonard

Build Day 3

Rubber Pouring



Unfortunately due to the recent rain, this phase of the project has been post-poned. We will be glad to share the results in the future and plan to stay on top of the project through the end of the semester and into the summer to be sure this portion gets completed. We also plan to add more to the site, including signs for the track and landscaping.