

The Navajo art of textiles has deep connections with the Earth. In design, these concepts are related through the utilization of recycled shipping containers, inclusion of natural materials and selections, and the sustainable lifestyle promoted by this live/work space. The home does not exhaust energy, but instead utilizes natural lighting, promotes the connection between the indoors and outdoors, and benefits the health of the occupants and the local area. Moab, Utah is the intended location of the structure, on an already cleared site near a Navajo nation. The placement is opportunely within walking distance of all local necessities.

Gpider Woman

The legend of Spider Woman begins at the very start of the Navajo Creation story. As the people traveled up through the lower Worlds, they rebelled, creating chaos until they were banished to the next World. Spider Woman plays the role of the creator of the Universe. As the story goes, she weaved her web, creating solid ground. Then she taught the people how to weave to create beauty in their own lives and demonstrate the balance of mind, body and soul. The Navajo people continued these traditional practices taught by the Spider Woman as they created rugs and other various textiles for years to come. In designing the live/work space for The Warp and Weft Weaving Company, the design team decided to draw inspiration directly from the legend that started it all. The couple who owns and runs Warp and Weft are advocates for preserving their native culture, and this story fits perfectly. The inspiration is directly shown in the signage and logo of the company which uses sacred geometry to form a spider symbol. The "webbed" idea can also be seen in selections such as the flex space lighting or the custom bedroom bed frames.

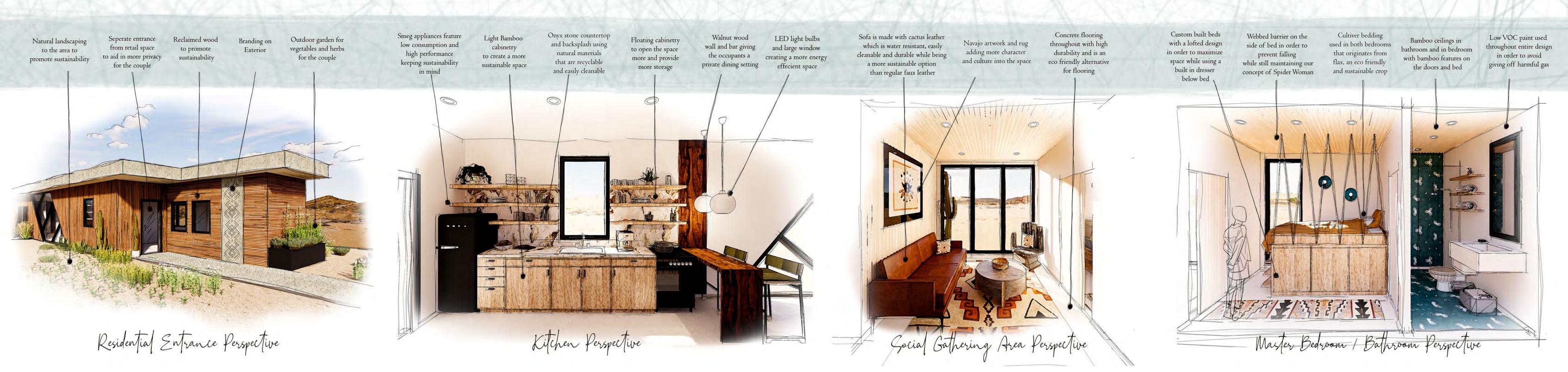
Location

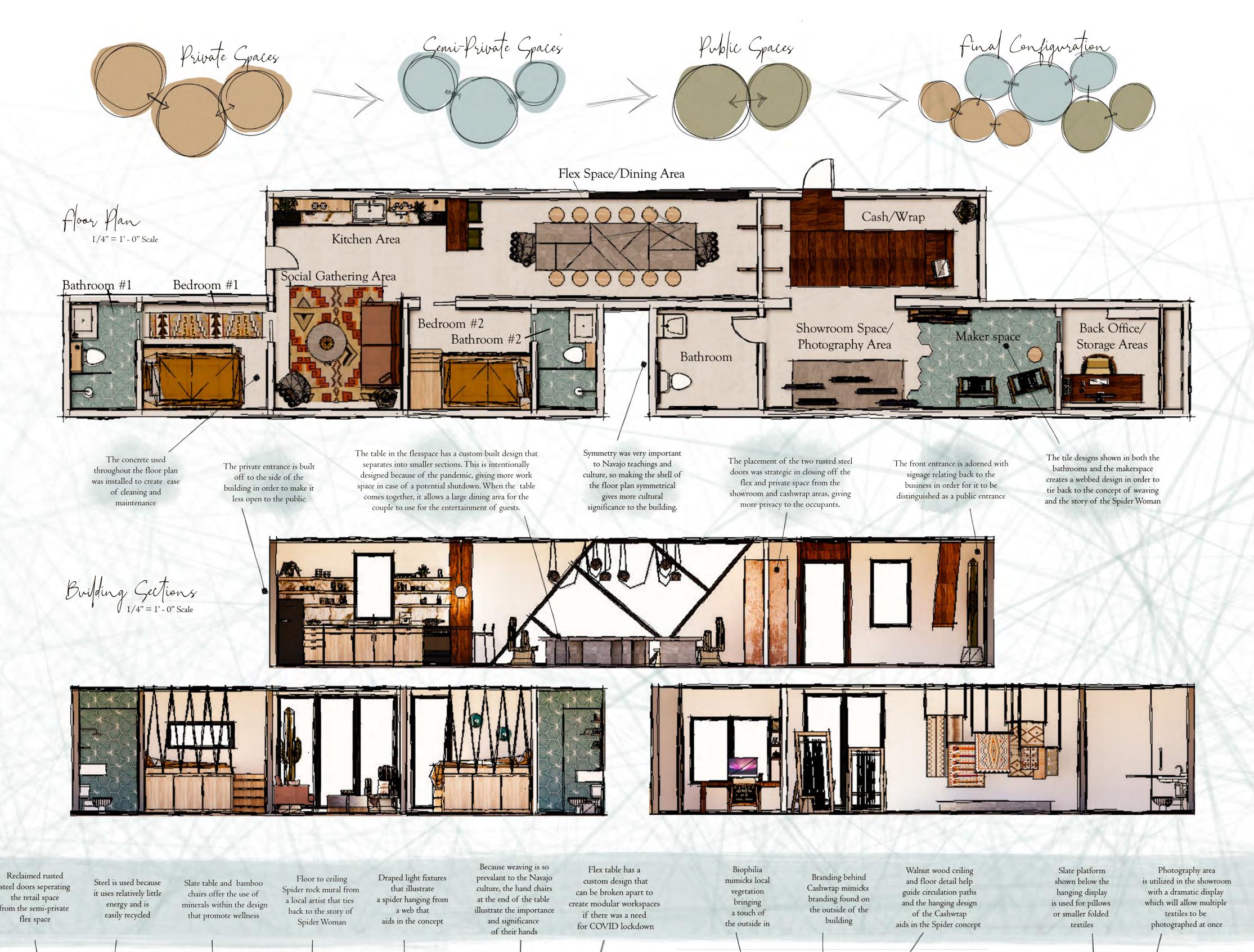
Moab, Utah is the intended location for the Warp and Weft Weaving Company. This city is near the Navajo Nation in the South West region of North America. The structure will be built on an already cleared site in the heart of the town. The placement is opportunely within walking distance of all local necessities including grocery stores, gas stations and banks. It is also surrounded by multiple other local businesses as well as guest lodging to promote tourism and thus new clients for the company.

Shopping
Restaurants
Guest Lodging
Gas/Service Stations
Banks
Grocery Stores
First Responders
Schools
Public Parks

In line with a sustainable focus and Navajo culture, the interior selections are primarily natural materials with sustainable foundations. The space contains reclaimed or sustainably forested wood and locally sourced stone. We have ensured that materials do not contain VOCs or other harmful chemicals. Materials and furniture selections also intentionally follow the Navajo focus on sacred geometry through the designs.

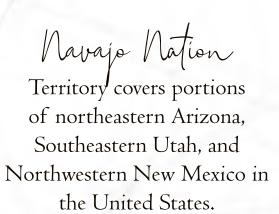






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Sacred geometry in Navajo teachings include terraced zigzags, striped patterns, diamonds, lozenges, and organic, natural shapes.



Containers Designs

Containers can be stacked on top of each other, welded together, and have openings cut into them if the structure is reinforced elsewhere.

Placed on an already cleared site so as not to disrupt the environment

as not to disrupt the environment of Moab, Utah. Locating the site in a way that allows occupants to reduce personal impact on the environment (less carbon footprint by walking, for example).

Using less prevents a greater need to recycle later on in the process, resulting in less waste of time, energy, and resources
We design in a minimalistic way focusing on the health and wellbeing of the occupants rather than on filling the space with an

Blomberg, Nancy J. Navajo Textiles: The William Randolph Hearst Collection. The University of Arizona Press, 1988.

Ganea, S., (2018, December 4). Shipping container home infused with sustainable features. Homedit. https://www.homedit.com/shipping-container-homedit.gov. December 31). 6 sustainability trends that will emerge in the design world in 2021. Architectural Digest.

Steel hanging displays

are shown hanging

rugs and blankets

and mimick

the Cashwrap desk

Karol Grbowski and Daniel Kaldunek 2017 IOP Conf. Ser.: Mater. Sci. Eng. 245 042087

Lee, Lloyd L, and Jennifer Nez Denetdale. Navajo Sovereignty: Understandings and Visions of the Diné People. University of Arizona Press, 2017. Print.

Moore, Christopher M., Semih G. Yildirim, and Stuart W. Baur. "Educational adaptation of cargo container design features." American Society for Engineering Education (ASEE). Zone III Conference. 2015.

Storage accesible

overabundance

8

Neutrals such as white, grey, and brown, as well as red and blue in more classical designs.

Dyes were historically created using roots, herbs, and minerals.

Navajo blankets were traded with Pueblo people for turquoise or white shell beads, turquoise pendants, unworked turquoise, buckskins, corn, fruit, or other food.

Confainer Benefits

They are strong in structure and inexpensive. They have low environmental impact, accessible worldwide, and reuse steel.

Using recycled materials, selections, and structure. Materials selected without harmful chemicals or processes that can hurt the environment.

Thrifting furniture for the residential side of the building rather than purchasing new.

Making residential and commercial spaces accessible to different groups in order to be efficient, long lasting, and inclusive.

This is a single level design, making it accessible to a larger number of people. ADA accessible public bath, design of all public spaces is ADA compliant.

"Navajo Weaving." Encyclopædia Britannica, Encyclopædia Britannica, Inc.,
"Navajo Weaving." Encyclopædia Britannica, Encyclopædia Britannica, Inc.,
Radwan, Ahmed Hosney. "Containers Architecture Reusing Shipping Containers in Making Creative Architectural Spaces." Inter

Large windows bring in

Scientific and Engineering Research, vol. 6, no. 11, 2015, pp. 1562–1577., doi:10.14299/ijser.2015.11.01

Sustainable container architecture 101. Discover Containers. (2021, April 8). https://www.discovercontainers.com/sustainable/. Tucker, L. M. (2015). Designing sustainable residential and commercial interiors: Applying concepts and practices. Bloomsbury.

Webster, Laurie D., et al. Navajo Textiles: The Crane Collection at the Denver Museum of Nature & Science. Denver Museum of Nature & Science, 2017. Navajo Rugs, navajopeople.org/navajo-rugs.htm.

Webster, Laurie D., et al. Navajo Textiles: The Crane Collection at the Denver Museum of Nature & Science. Denver Museum of Nature & Science, 2017.

Hexagonal floor pattern

from the semi-private flex space easily recycled easily recycled that promote wellness back to the story of Spidet Woman and significance of their hands for COVID lockdown

Flex Space Perspective

a touch of the outside in building of the Cashwrap aids in the Spider concept

Cashwrap Perspective

Showroom Space Perspective



Office desk mimicks

Back Office/Mokerspace Perspective

Faculty Submittal for IDEC Student Design competition 2021-2022

Abstract of project

We are on a precipice of change in the design community. Our clients are requesting designs for new ways of living, working, and gathering. This project challenges students to reimagine the retail experience as part of a new live/work model. Configuring three shipping containers students will provide a design solution for live/ work environment dedicated to creating and selling handcrafted textiles in both in the physical and online marketplaces. The project will employ indigenous textiles as a conduit to understand and celebrate the diversity of our communities by addressing a sustainable live/work space for the artist to live, create, design, and work.

Faculty notes

Faculty please use the checklist below to confirm the requirements present in your student's submittal. Requirements must be met in order to be judged for the competition. Please include this document with each student/team's submitted project. Without this document, the project submission is considered incomplete and will not be included in the competition. Please only complete the grey shaded area. The other checklists and rubric will be fill out by the competition jurors.

Student's submitted work does not contain any identifying information, including but not limited to- their name, the X school's name, names of faculty members or other members of the school, such as, well known alumni, coaches, or other Faculty checklist people associated with the school. Student's submitted work addresses indigenous communities including the branding/identity of the space and is X supported by at least 10 research sources Student's submitted work contains all deliverables: name and branding of the Navajo textile artist business; concept statement relating to Navajo textiles, sustainability, and the rationale of the site selection in the local community; evidence of research; process work that is annotated by the student; site plan location illustrates the LEED-ND SSL pre-X reg. 1- Smart Locations, NPD prereg. 3- connected and open communities; floor plan, interior elevations and/or sections; rendered perspective and/or model with the facade design; concept for the interior material selections; text and descriptions as deemed necessary for the designer(s). Student's submitted work contains all of the project's areas required for the residential and commercial designs as listed X in the Spatial Needs Checklist below. Student's submitted work is labeled with all areas specified in the prospectus including on the floor plan, elevations and/or sections, and perspectives, as well as any process work presented in the final poster.

Faculty, please only fill in area above. The area below the yellow line is for reference and for judging of the projects, not for faculty to fill out.

Rubric for IDEC Student Design competition 2021-2022

Excellent	Good	Average	Poor	Weight

Criteria	work meets or exceeds all expectations or criteria requirements	work almost, but does not, meet all criteria requirements	work meets most of the criteria requirements	work meets little or none of the criteria requirements		<u>N</u>	<u>otes</u>
Does the design reflect an understanding of, and cultural sensitivity to, indigenous people through research and application in the design solution?					15%	_	
Does the design reflect an understanding of and respond effectively to the needs of the live/work environment? These needs include addressing the living area and the working area of the space. Additionally, the scoring should address the transitions between the two spaces. Please see below for the specific requirements of the project.					15%		
Is the design effective in addressing health and safety measures in response to the current pandemic, including the effectiveness of planning, the technical qualities of materials selections and the CDC requirements?					15%		
Is the design effective in addressing universal design considerations and material selections including movement and access in the space, lowered visual acuity, and transitions in the spaces?					10%	_	
Does the design pay attention to ingress and egress sequence, and ease of accessibility and flow throughout the spaces?					10%	_	
Does the branding and name for the business utilize the concept and celebrate the space?					5%	_	
Is the identity of the space evident through the interior design solution?					10%	_	
Does the project meet all the criteria and deliverables?					15%	_	
Has all research and photography credits been cited on the poster?					5%	_	
Spatial Needs Checklist	П	Social and the	and the first	Total	100%	l	
Spatial Needs Checklist Residential-		Social gathering	g area includes s	space for 4-10 g	guests		

	Dining area accommodates up to 12 people eating together
Commercial-	Two bedrooms, one full bath, one half-bath for guests
	Dedicated area for kitchen, dining, and gathering
	Hallways are kept to a minimum and multifunctional spaces are encouraged
	Storage : Storage area to include yarn storage for the artist should accommodate up to 40 cubic feet. Additional storage no
	Cash/Wrap: This area can overlap with Showroom space
	Back office: for 1-2 people and includes one desk and at least 4-8 linear feet of file storage
	Showroom space (80 sq.ft. to 100 sq.ft): This area can overlap with Cash/Wrap space.
	Photography area with props storage for online mode: This area can overlap with 25% of the ash/Wrap and Showroom spaces when in online mode.
	Maker space: The artist works on a loom that measures 3'-0" wide, 5'-0" tall and 2'-0" deep, as well as a larger loom that measures 3'-0" wide, 6'-0" tall and 2'-0" deep. Both looms have to be accessible and can be used in the Showroom space. Yarn storage for the artist should accommodate up to 40 cubic feet. Additional storage needs include storage of completed textiles (30 cubic feet), inspirational items (10 cubic feet), and tools (1 cubic foot). The artist does not spin their own yarn but works with other artisans (spinner and dyers) to acquire the yarns or have custom yarns made.