

# HISTORY

-The town is within the Baranggum region, in which the traditional language spoken is also called Baranggum

-The Baranggum language region includes the landscape within the local government boundaries of the Western Downs Regional Council

-The region including Dalby, Tara, Jandowae & Chinchilla.

## Jandowae

Name

-In 1866, the town was called Jindowie, a word which meant waterhole

-Later on a man named John Dowae established a camp, in which settlers called it Jondowae

-Finally, in 1914, the name was changed finally to Jandowae.

Did you know?

-Jandowae had a railway station opened in 1914, with the purpose of transporting dairy products & bulk grain (Abandoned in 2013)

-Jandowae has a school, in which is a prep to year 10 school. The students enrolled there is approximately 150.

-The wild dog fence is the second longest man-made structure in the world, stretching at 5,614km!

Events

-The timbertown festival is an event that is held annually at the Jandowae Showgrounds. This festival celebrates Jandowae's timber history & community.

-Another event that happens in the local area is the senior program golf tournament. Finally there is the Jandowae cup race. If you're a fan of horse racing.

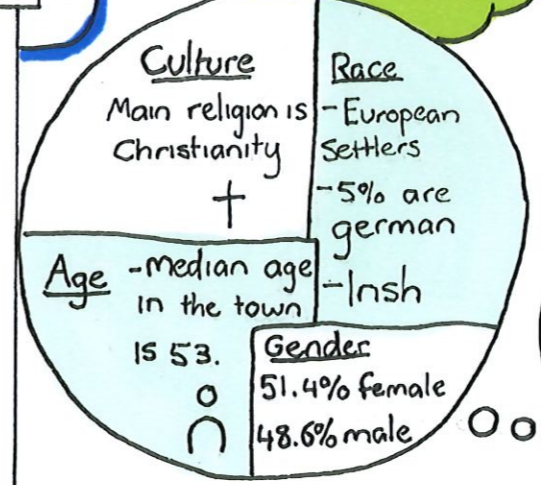
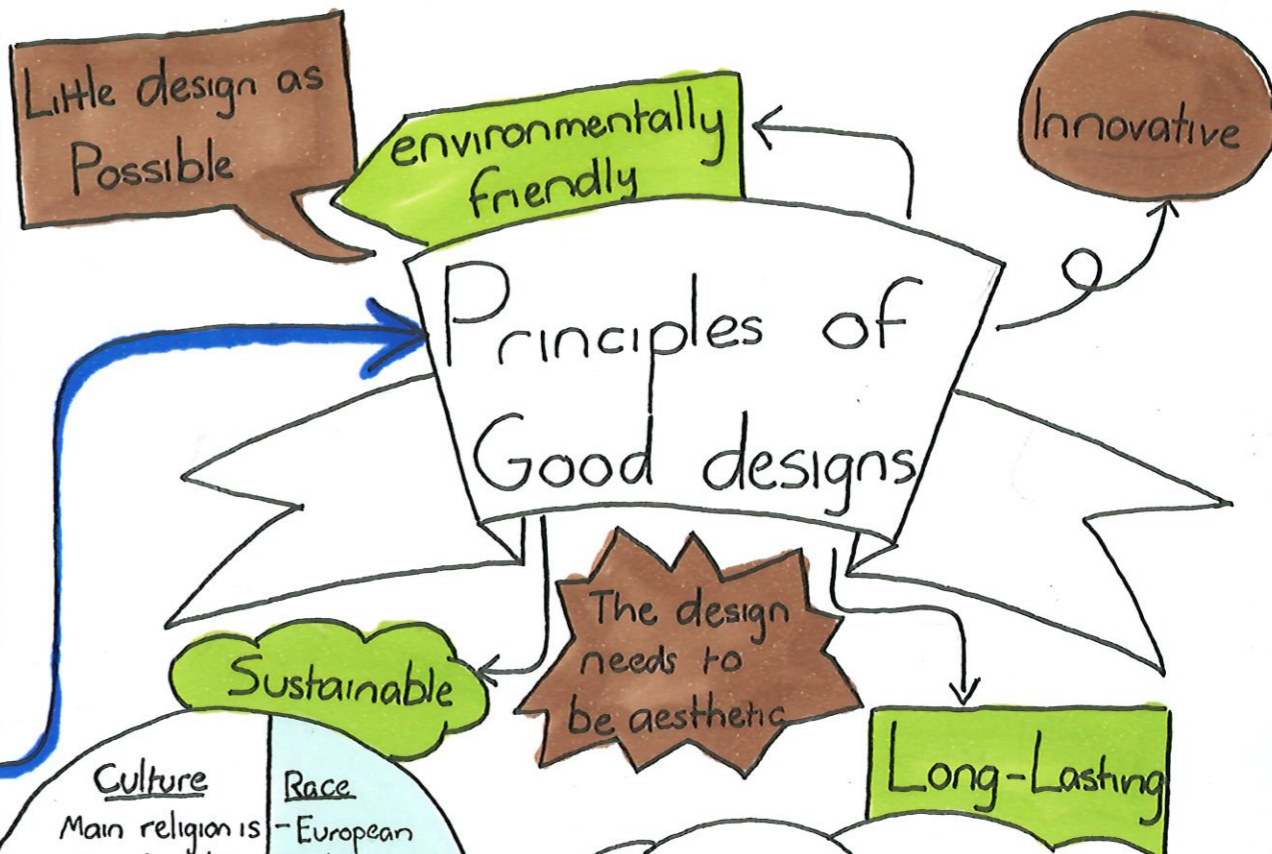
# Jandowae Park Fence Design

Clients

- Jandowae Citizens
- Council
- Tourists
- Locals

## STAKEHOLDERS

Needs	Wants
<p><u>Council</u></p> <ul style="list-style-type: none"> <li>- a fence design for the Jandowae Park</li> <li>-The use of corten steel panels for construction</li> </ul> <p><u>Community</u></p> <ul style="list-style-type: none"> <li>-The use of a night-light around the fence to make it more appealing in the evening.</li> </ul>	<p><u>Community</u></p> <ul style="list-style-type: none"> <li>-Having colour on the fence</li> <li>-Using images as a design on the fence to reflect the town (eg. the wild dog barrier fence, timber-town tree etc.)</li> <li>-The design needs to reflect the positives of Jandowae and its community.</li> </ul>



## Social and Cultural Factors

Socio-economic Status

Jandowae's socio-economic status is very low.

Costs of materials and resources are funded by the Jandowae council, with labour and construction supported by the school.

## Economic Factors

## Needs

- The cost of the materials to construct the fence needs to stay on budget
- The corten steel panels that are used must be 1.5→1.8m high and max width is 3m, in a span of 30m (10 panels)

## Wants

-The wants from the Jandowae council will be similar to the other stakeholder's wants: reflecting the timbertown tree festival, the bottle trees, etc. The design of the fence should also include the wild dog barrier fence, the main attraction of the town

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The school design students & the Jandowae council are working together/collaborating in order to place this fence design in the central park of the town. The needs & wants of the council will slightly differ from the other stakeholders of this project.

## Needs

- The fence needs to reflect and dig a little deeper into the town's identity. This could be the community, the history of Jandowae, the social & cultural background of the land, the diversity in which the town holds.

## Jandowae School Community

Jandowae school community are one of the major stakeholders of this fence design. They were identified by the community as the stakeholders of this project. Their needs & wants could potentially effect the outcomes such as the designs and aesthetics of this project.

## Wants

- Town beautifications
- The fence design reflecting the annual timbertown festival
- Include the sporting facilities that are in the town
- The bottle trees that are native in the region/country

## Jandowae Community

The Jandowae community is another major stakeholder of the fence design project. They will be sharing their ideas with the council and the school's design students in regards to their needs & wants, including the representation it must show of the community.

## Needs

- like the school workshops, the fence design needs to reflect and dig a little deeper into the town's identity. This could be the community the history of Jandowae, the social and cultural background of the land, the diversity in which the small community of Jandowae holds.

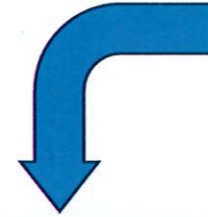
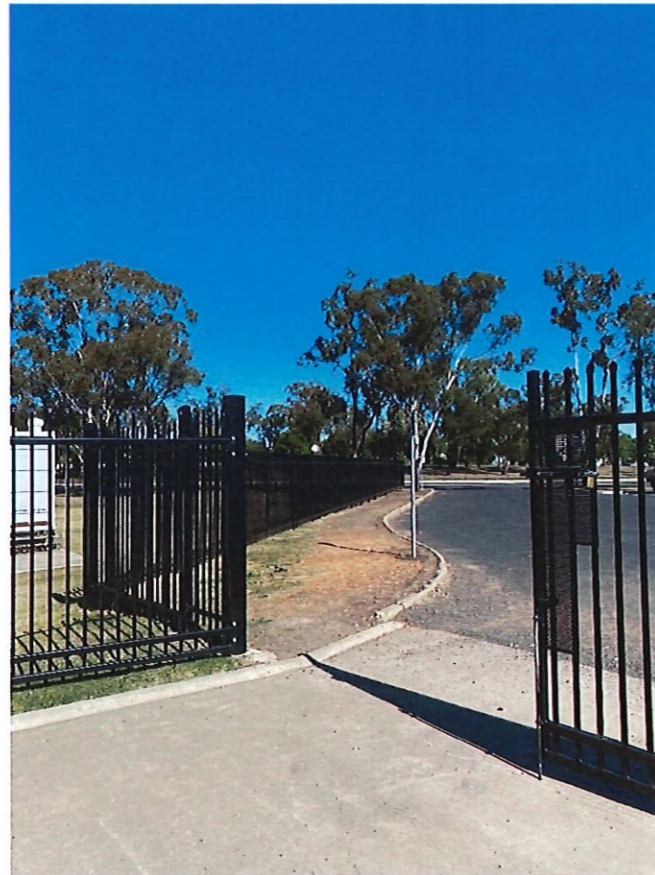
## Wants

- Town beautifications
- The fence design reflecting the annual timbertown festival
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# Primary Data images



## Strengths

- Simple and easy to construct
- The fence design is strong, tall and sturdy
- Cool structure

## Limitation

- The fence design could take time to construct due to individual pieces such as the steel poles

## Implications

- Lower the structure of the fence and improve the aesthetics of the design



## Strengths

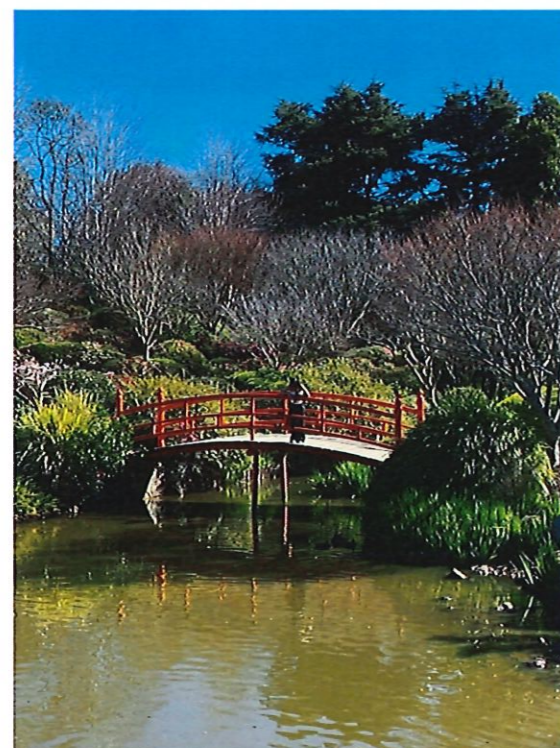
- Basic and simple design, a steel post with barbed wire attached

## Limitations

- Barbed wire, the design would not be safe for kids
- Large gaps, enough for anything small the crawl through

## Implications

- Improve the structure of the fence, including the safety and the overall aesthetics



## Strengths

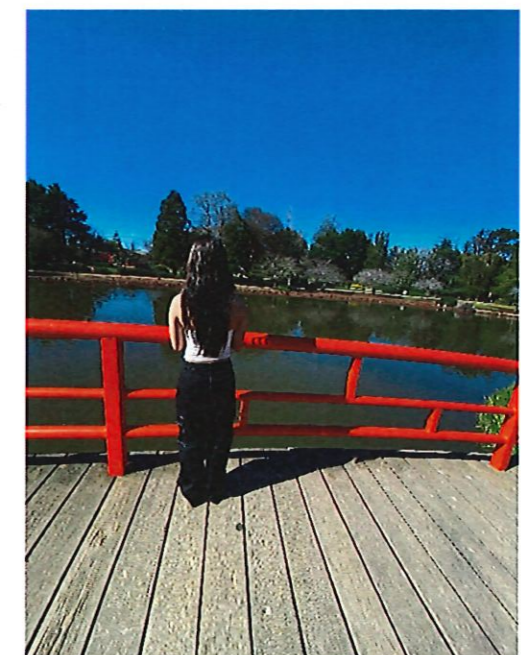
- The design of the fence is a bridge design, which could be implicated into the Jandowae fence design
- Simple yet unique, the grid pattern of the bridge is easy to construct with good aesthetics

## Limitations

- The gaps between the design could be small enough for children and wildlife to crawl through
- Low design, kids could jump/crawl over the fence with ease

## Implications

- Improve the height of the fence to close the area better
- Close the gaps/make the gaps between the fence design smaller





## Interview responses

For the surveys that were conducted, the following questions were discussed and answered by the Jandowae community and council.

### **Q: What makes Jandowae unique to you and how does it differ to other rural communities?**

- For the locals, a small portion has mentioned a number of key concepts that makes Jandowae a unique rural community. Some of the responses were about the community spirit, timber-town festival, the townspeople making the community unique and the mention of how small and quiet the town is

### **Q: What is your favourite thing about Jandowae?**

- Many responses had replied in the survey that they enjoyed the community energy, with one said the spirit of the community was their favourite thing in the town

Overall, the Jandowae community has given appropriate and informative responses which will be considered when designing the fence. These responses have also come from the stakeholders of this assignment, which mean the needs and wants have been stated throughout the answers.

### **Q: What are three words that you believe accurately describes Jandowae?**

- Some key words that were mentioned the most for describing Jandowae were small, happy, fun, quiet and lovely community. These responses displays the positives of the town, the community and the area where it is located.

### **Q: What is a symbol/s that would best represent Jandowae and it's community to you?**

- A lot of the responses has mentioned the Jandowae community, the agricultural and stock-life such as cattle and sheep, dingoes, referring to the wild dog fence and the timber town tree located at the park. A lot of these symbols/designs would be great to include in the fence design

# Primary Data



## Questions and responses from the council

Q1. Are there any limits to the design in terms of overall cost and resources?

Q2. Are there any non-negotiable components that must be involved in the design of the fence?

Q3. Can other elements (i.e. LED lights, 3 dimensional illusions) be included in the fence design?

Q4. Is there anything that the council believes the fence needs in order to be a successful design?

Q5. what is the council overall goal with this project?

Q6. What are the specific measurements of the design and what are the restrictions?

Q1. Council has a budget for this project (awaiting a quote from the trade centre team). Resources as such are limited – there is only one person working on this project from a council perspective

Q2. Considering that the other 2 sides of the fence (sides with neighbours) will have a 'dingo' fence 'look and feel'. This was requested by the community some time ago, this had to be in an agreement with what was proposed

Q3. Yes, consider LED lighting, 3 dimensional illusions

Q4. Reflect the 'look and feel' of the park, reflect the views of the community and the history/story of Jandowae.

Q5. Improve safety, improve the aesthetics of the park, encouraging tourists and locals to visit, opportunity to showcase and tell a story about Jandowae and highlight what the community feels is important

Q6. Sheet 1.2m high with a bottom gap of 600mm, total height of the fence is 1.8m length of fence is approx.. 29.5m

# Secondary Data

## History

Baranggum (also known as Barrunggam, Barunggam Parrungoom, Murrungama) is an Australian Aboriginal language spoken by the Baranggum people. The Baranggum language region includes the landscape within the local government boundaries of the Western Downs Regional Council, particularly Dalby, Tara, Jandowae and west towards Chinchilla.

The first European settlers arrived in the area in the 1860s and the first documented European birth was Henry Bateman in 1866. Bateman descendants still live in the town today. The town was at first called *Jindowie*, from the local Aboriginal word for a waterhole. Later, a man called John or Jack Dowiae established a camp and rest area for travellers called the John Dowiae camp. This led to some early settlers using the name Jondowiae. With the coming of the railway in 1914, the name was changed again to Jandowae, to avoid confusion with nearby Jondaryan.

The fertile soil allowed the development of agriculture and combined with a flourishing timber industry saw the expansion of industry and commerce and the establishment of churches, halls and banks.

Source was collected from (wikipedia, 2023)

## Events

Jandowae Timbertown Festival is a four-day event that celebrates Jandowae's timber history and community. Timber sawmilling has long been one of Jandowae's primary industries and in the early 2000s, an initiative was raised by locals to celebrate this rich history with an event in its honour.

Held every two years, the event embodies a different theme, like this years' – 'The many branches that make one'. Across the festival, the town is expected to more than double its size as the local community and travellers come together to immerse themselves in the wide range of attractions, competitions, entertainment, and activities on the program.

Source was collected from (Queensland, 2023)

## Jandowae

Jandowae is a small rural town surrounded by rich alluvial soil and some of Queensland's richest and most productive agricultural land where wheat, barley, sorghum, oats, millet, sunflower, safflower and linseed. There are also dairy and beef cattle studs in the district. Jandowae is located 258 km north-west of Brisbane and 49 km north of Dalby.

Source was collected from (Towns, 2023)

## Landscape

Australia is home to the second longest man-made structure in the world. The Wild Dog Barrier Fence, also known as The Dingo Fence was erected during the 1880's to keep dingos out of the relatively fertile south-east part of the continent and to protect the sheep flocks of Southern Queensland. It stretches 5,614km, although at one stage it did stretch for over 8,000km. The fence passes through Queensland, New South Wales and South Australia.

In the Western Downs you can find the start of the northern end of the Dingo Fence, located between Jandowae and Jimbour. It extends through thousands of kilometres of arid land, ending west of Eyre Peninsula, on the cliffs of the Nullarbor Plains and above the Great Australian Bight some 5,614km away.

Source was collected from (Queensland, 2023)



- ⊕ The gate design was previously designed by Dalby State High School students, could incorporate the images on the design
- ⊖ The design is quite complex, requiring delicate and precision on the cutting out of the images
- ⓘ Increase the height of the gate to fit the requirements of the fence design

- ⊕ The fence structure and design is very unique, since the structure of the Corten steel has a bending pattern
- ⊕ Corten steel panel design is very aesthetic
- ⊖ To create the bend might take some time, including constructing the fence as well
- ⓘ Increase the height of the fence design, as well as including steel posts behind these panels to improve the structure of the fence



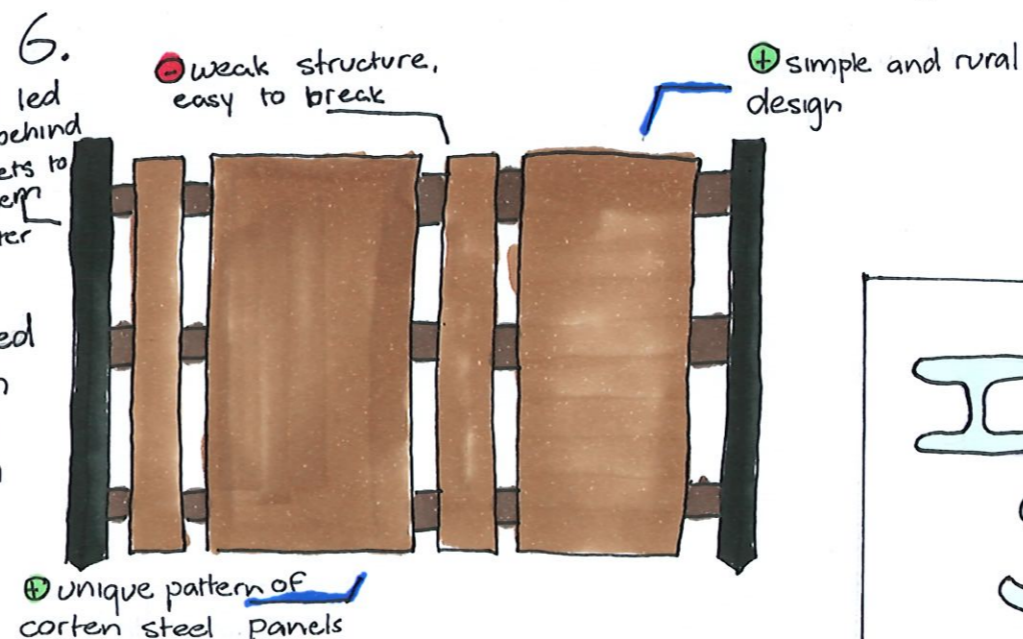
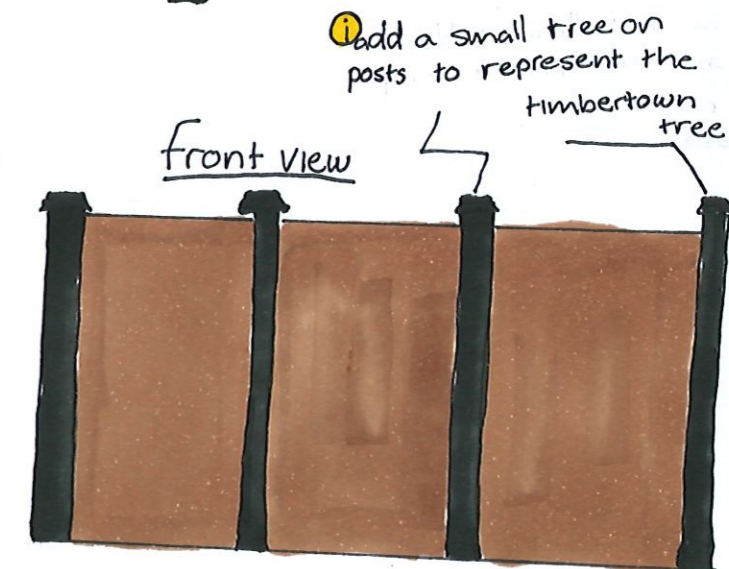
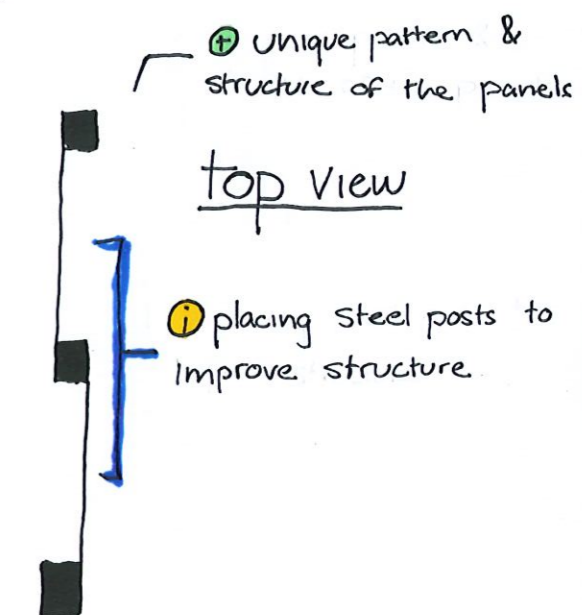
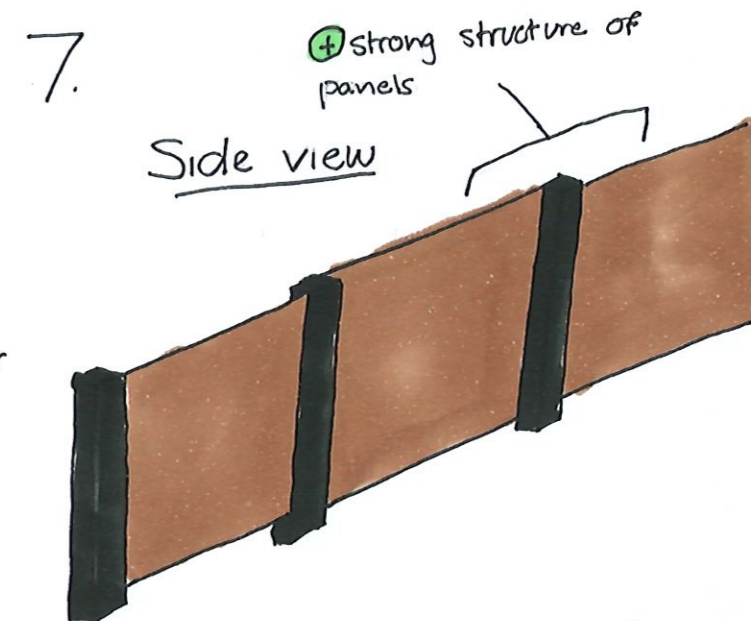
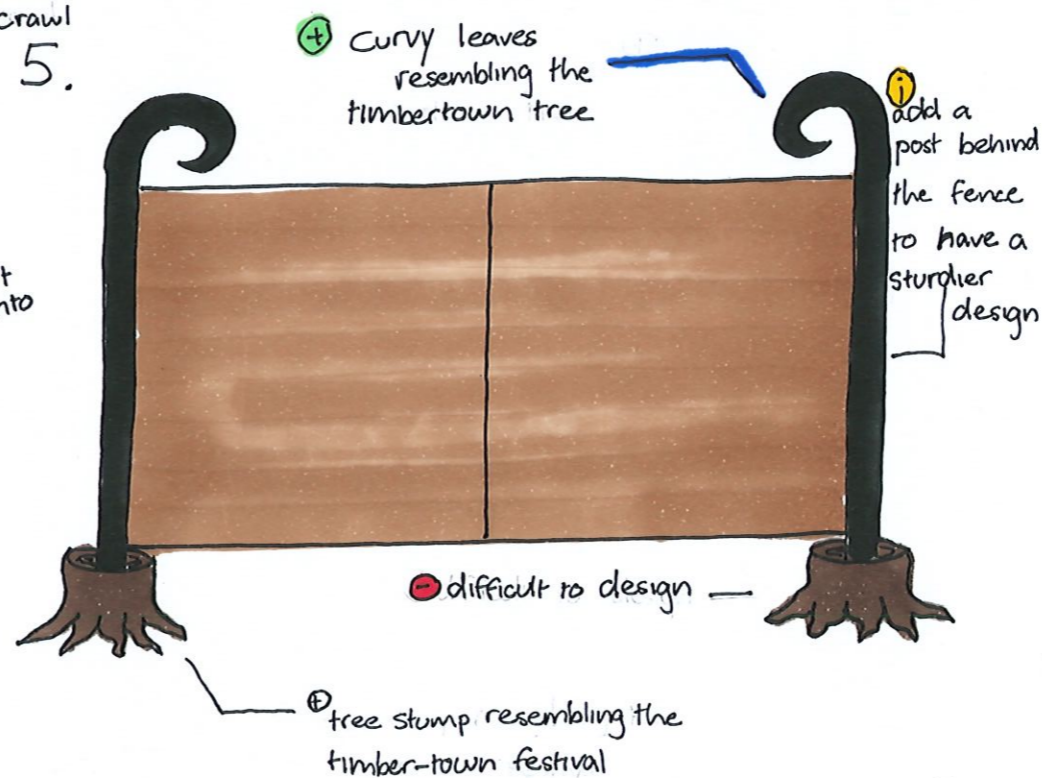
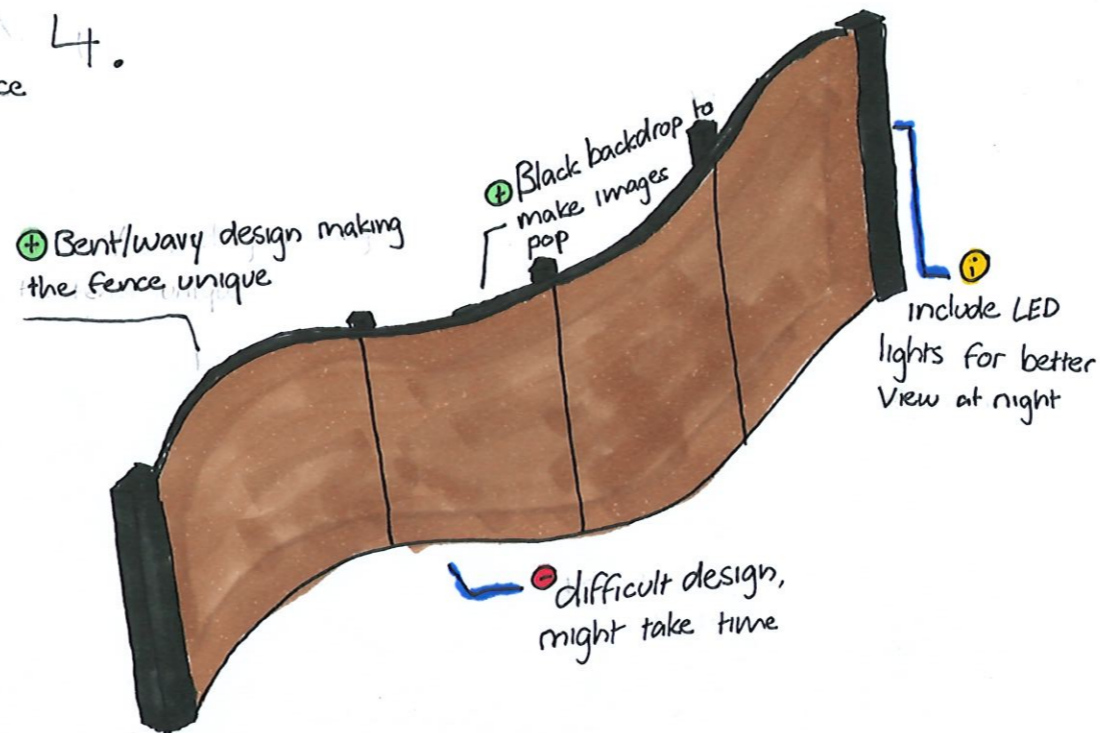
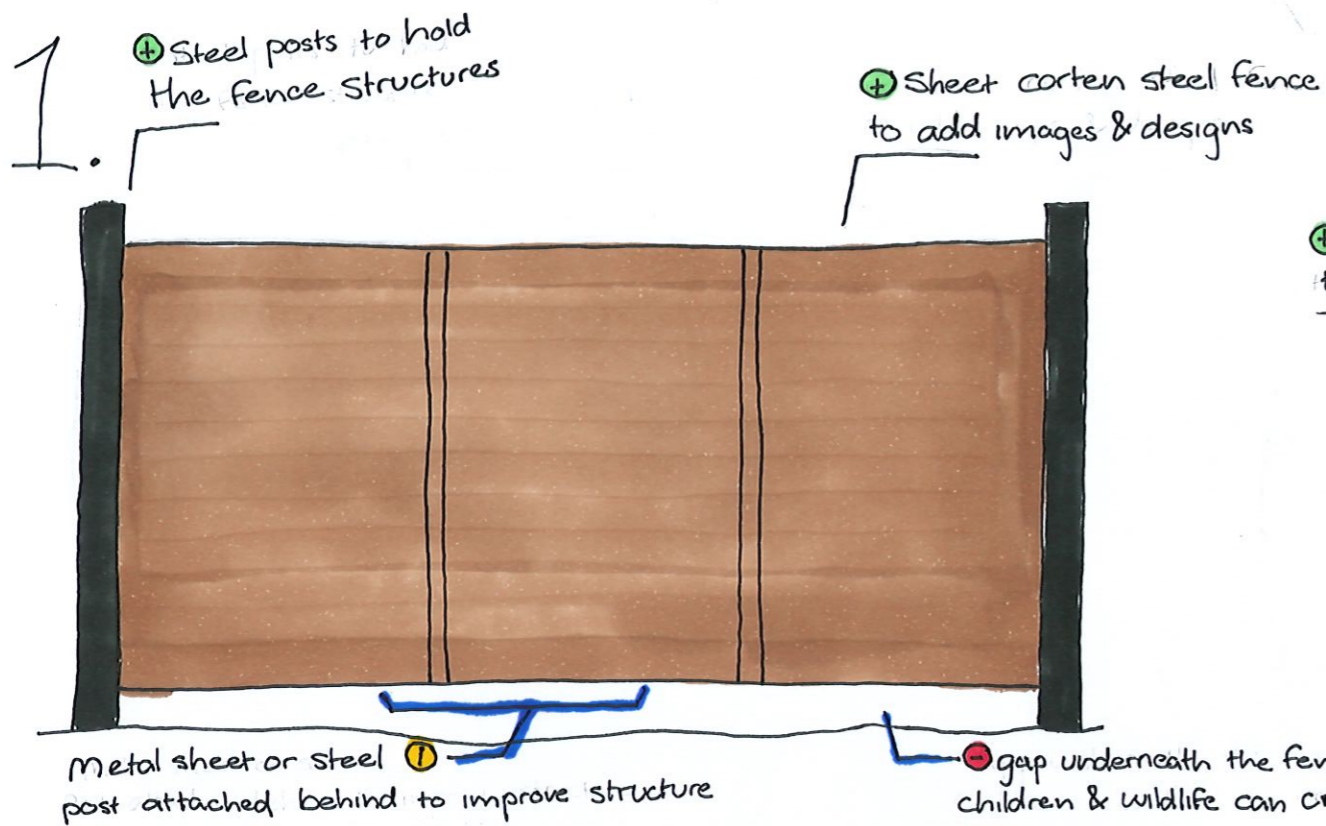
## Secondary Data

- ⊕ Tall and simple design for a fence structure that is unique and aesthetic
- ⊕ Strong and firm
- ⊖ The design is very close to the ground, which could rust/damage the Corten steel
- ⓘ Slightly elevate the fence design to increase the longevity of the structure



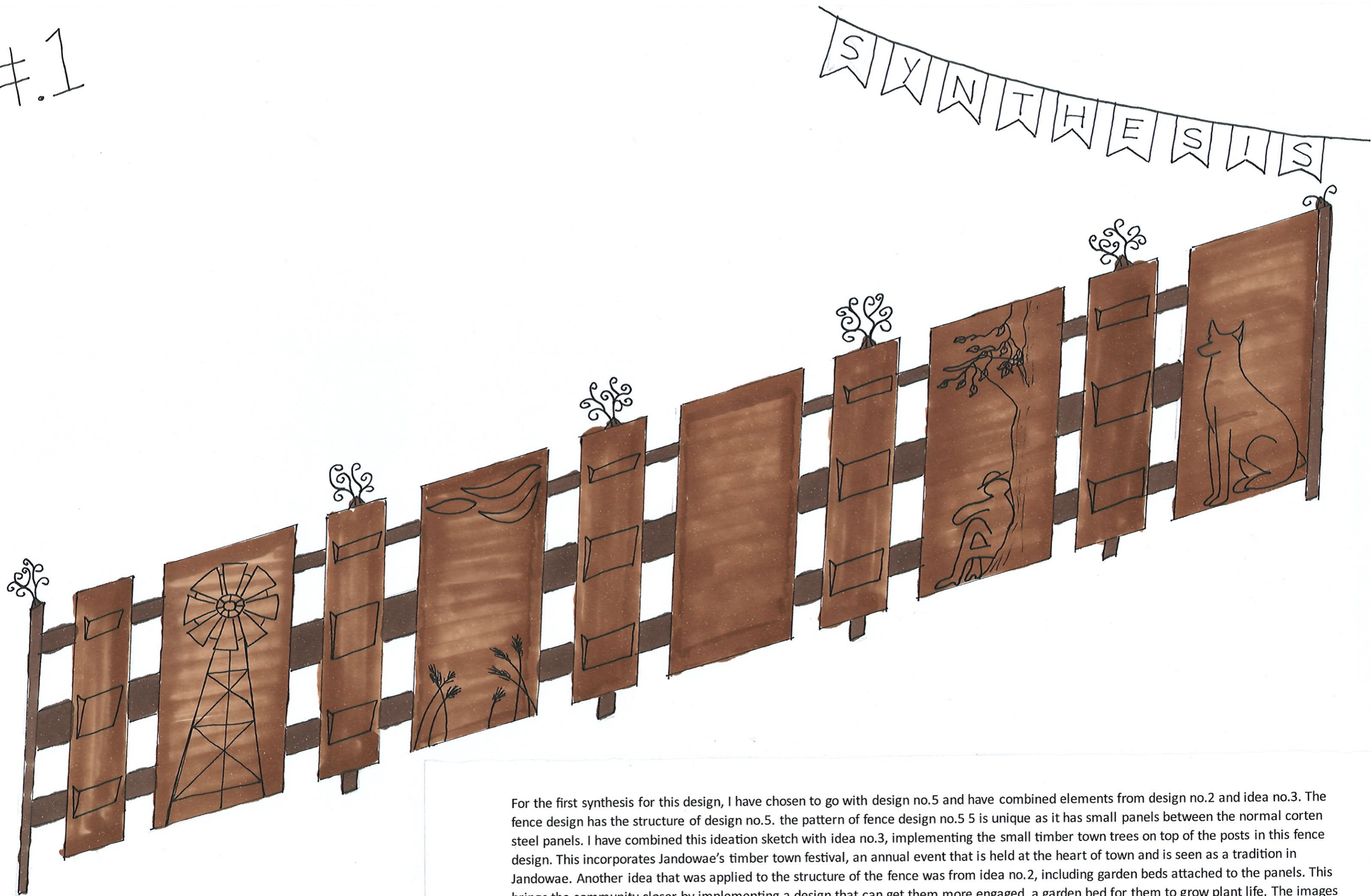
- ⊕ The portrait design includes Corten steel panels in the design
- ⊕ Includes an image in the design which could be drawn on the Jandowae fence
- ⊕ Solid structure with the steel panels attached to concrete
- ⊖ Very simple design and simple structure
- ⓘ Include LED lights around the outlines of the black tree





# IDEATION SKETCHES

#1



For the first synthesis for this design, I have chosen to go with design no.5 and have combined elements from design no.2 and idea no.3. The fence design has the structure of design no.5. the pattern of fence design no.5 is unique as it has small panels between the normal corten steel panels. I have combined this ideation sketch with idea no.3, implementing the small timber town trees on top of the posts in this fence design. This incorporates Jandowae's timber town festival, an annual event that is held at the heart of town and is seen as a tradition in Jandowae. Another idea that was applied to the structure of the fence was from idea no.2, including garden beds attached to the panels. This brings the community closer by implementing a design that can get them more engaged, a garden bed for them to grow plant life. The images that are seen being sketched on the front of fence (from left to right) is a windmill, wheat blown from the wind, a farmer lying down under a bottle tree, and a dingo sitting upright. A lot of these represent the environment of Jandowae, including the history and culture of the land and the wildlife.

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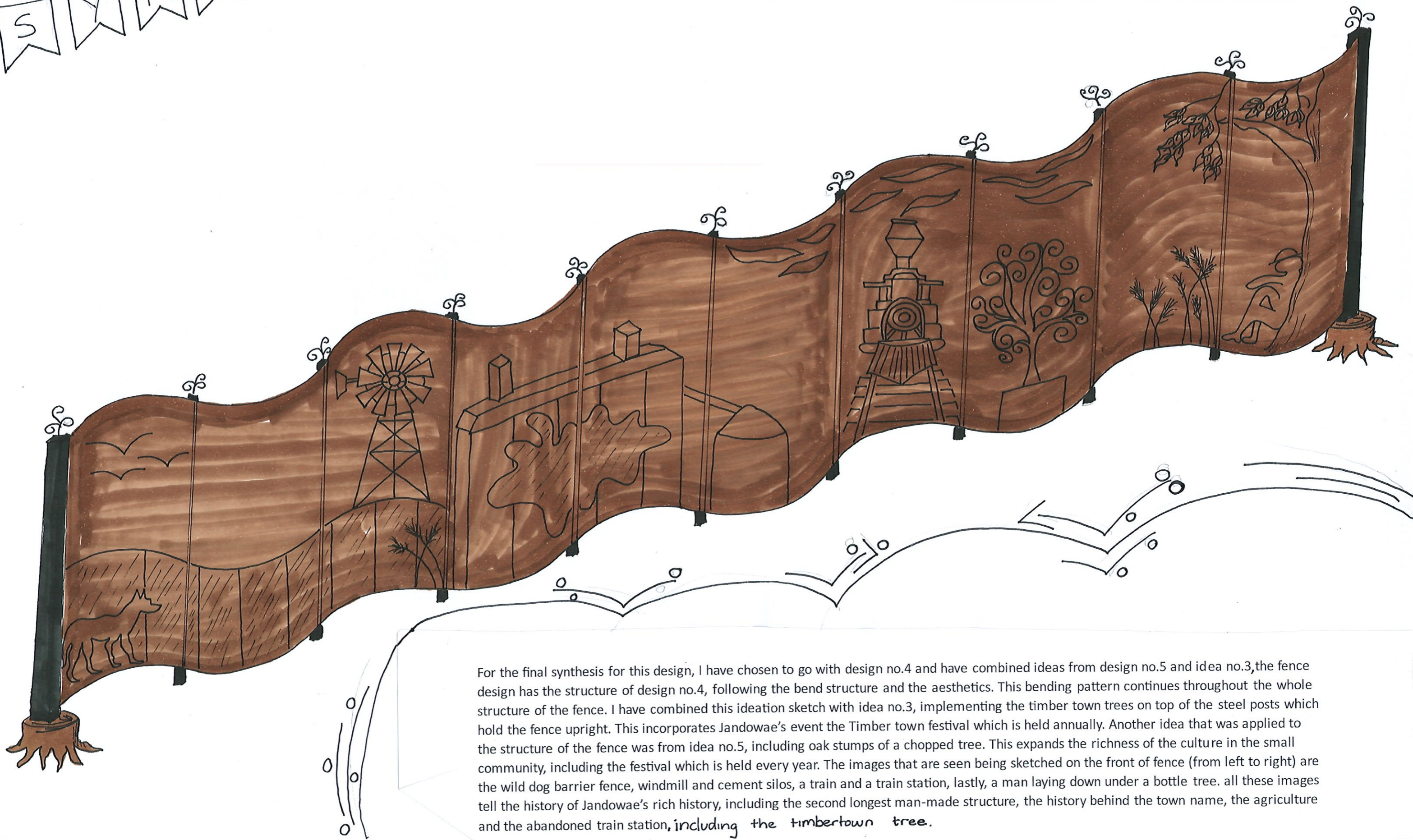
S Y N T H E S I S



For the second synthesis for this design, I have chosen design no.7 and have combined ideas from design no.2 and design no.3. The fence design has the structure of design no.7, following the panel structure of front and back. These fencing panels continue throughout the whole structure of the fence. I have combined this ideation sketch with idea no.3, implementing the garden beds at the bottom of the fence design. This will allow Jandowae's community to be involved with the project by planting native grasses and plants within the beds. Another idea that I applied to the structure of the fence was idea no.2, which includes garden beds attached to the panels, also allowing community to be involved. The images that are seen sketched on the front of the fence, (from left to right), are a farmer sitting down watching birds, a dingo (which is a symbol used on the Jandowae welcome sign), an indigenous style painting representing a water hole, a water hole and a bottle tree which is native to the area. All of these images represent Jandowae, it's history and it's local wildlife, in some way.

SIXTIES

#.3



For the final synthesis for this design, I have chosen to go with design no.4 and have combined ideas from design no.5 and idea no.3, the fence design has the structure of design no.4, following the bend structure and the aesthetics. This bending pattern continues throughout the whole structure of the fence. I have combined this ideation sketch with idea no.3, implementing the timber town trees on top of the steel posts which hold the fence upright. This incorporates Jandowae's event the Timber town festival which is held annually. Another idea that was applied to the structure of the fence was from idea no.5, including oak stumps of a chopped tree. This expands the richness of the culture in the small community, including the festival which is held every year. The images that are seen being sketched on the front of fence (from left to right) are the wild dog barrier fence, windmill and cement silos, a train and a train station, lastly, a man laying down under a bottle tree. all these images tell the history of Jandowae's rich history, including the second longest man-made structure, the history behind the town name, the agriculture and the abandoned train station, including the timbertown tree.

# Final Evaluation



A strength to this final design is the aesthetics of the fence. the fence structure is unique, creating a bend like pattern as it stretches out. the design is different, steering away from a typical straight fence.

Another strength to the design is the elements that are seen in the design. At both ends of the fence, the bottom of the steel posts represent an oak stump, reflecting on the community and the Jandowae Timbertown festival. Not only this but there are miniature timbertown trees on top of every single steel post, again reflecting on the culture of the small community.

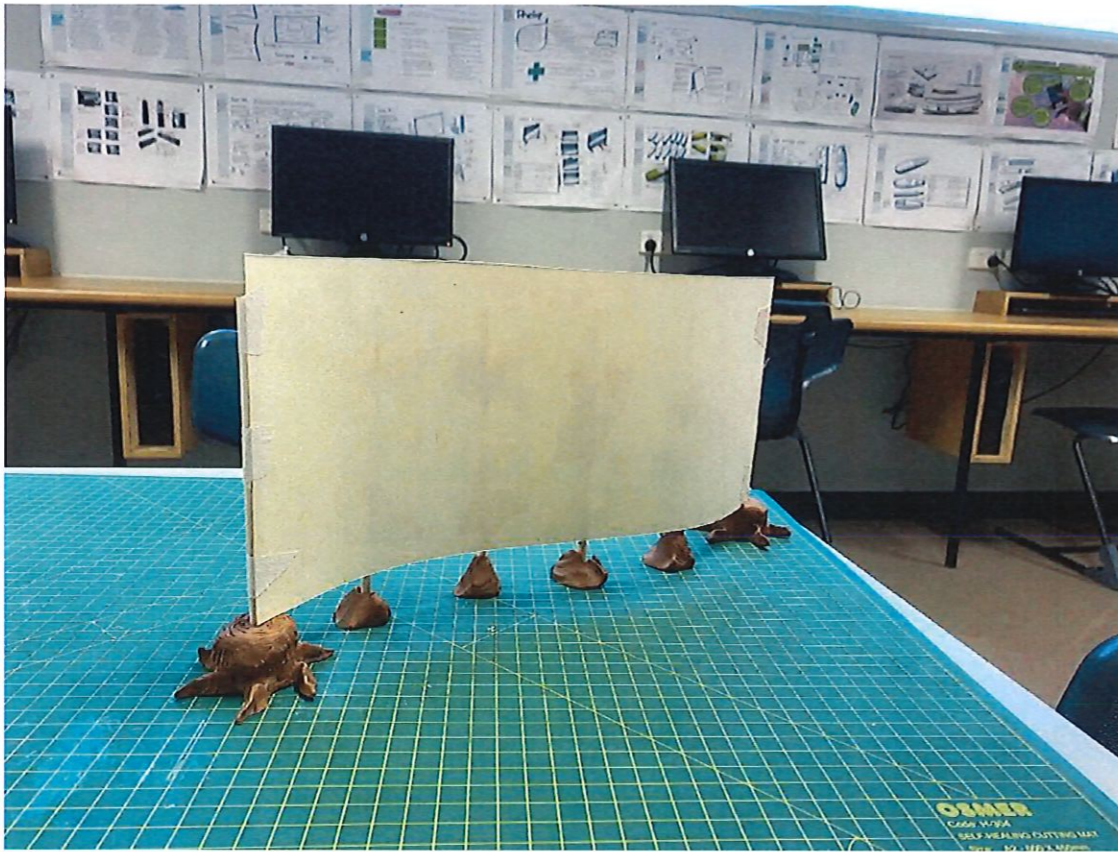
Some refinements that I would make to the design is to improve the structure and the sturdiness of the fence. As seen in the image above, the fence pattern is bending, therefore creating a weak structure. Another refinement that I would add is LED lights. I would add this to improve the images that are displayed on the fence structure, especially during the evening, when there is not a lot of light. These refinements could help with the coherency of the prototype and the overall structure of the design.

The opportunity of redesigning/designing a fence structure for the local town Jandowae has been presented to us. The final chosen synthesis that has been selected to be designed is synthesis 3.

However, a limitation to this synthesis design is the construction of the fence, if selected. The bending pattern of the fence will be hard to replicate, and construct, therefore taking time for the project to be completed. This also includes the oak stumps, as they would be difficult to replicate and design, and the small timbertown trees, they would be simple to design but will have a weak structure.

The design displays a clear role of a fence. it is long, has a pattern and is unique. The Jandowae community will love this fence design as it is different, aesthetic and abnormal from other designs. It has a bent structure, which steers from a typical fence structure that is straight and long. It meets the design criteria, meets the principles of good design, and has considered the Jandowae community wants and needs. It meets their need and wants of what they like and what they want to represent the town and community.

# Prototype Evaluation

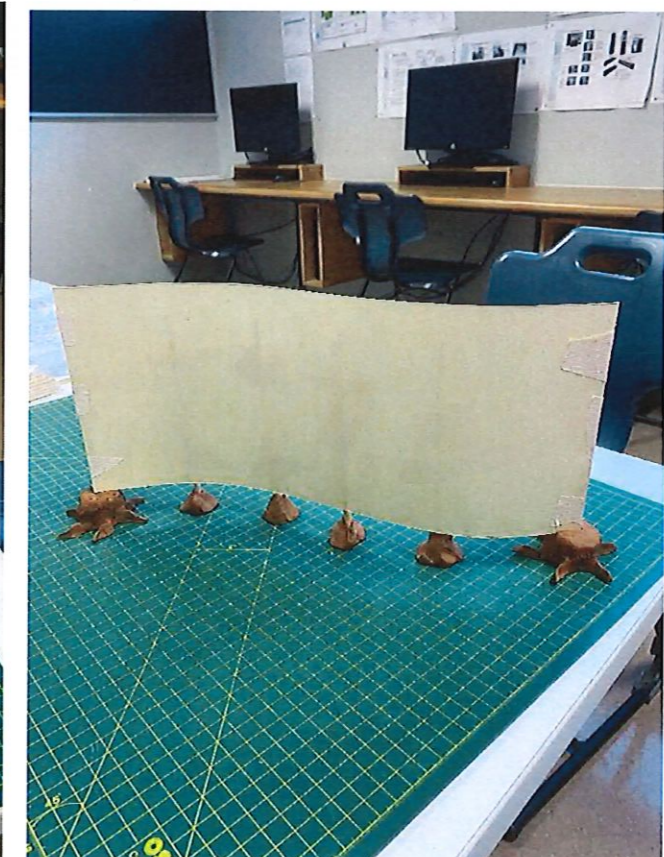
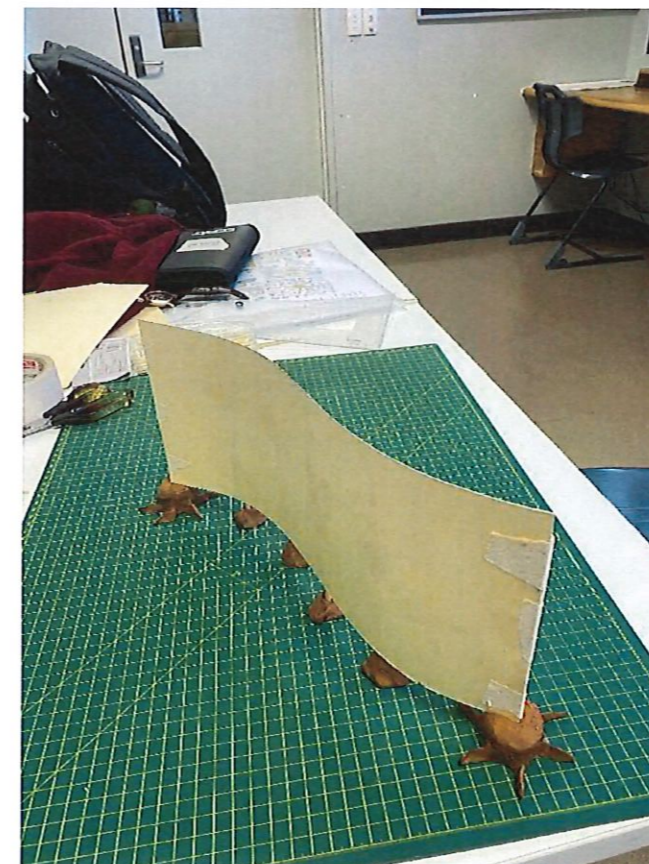


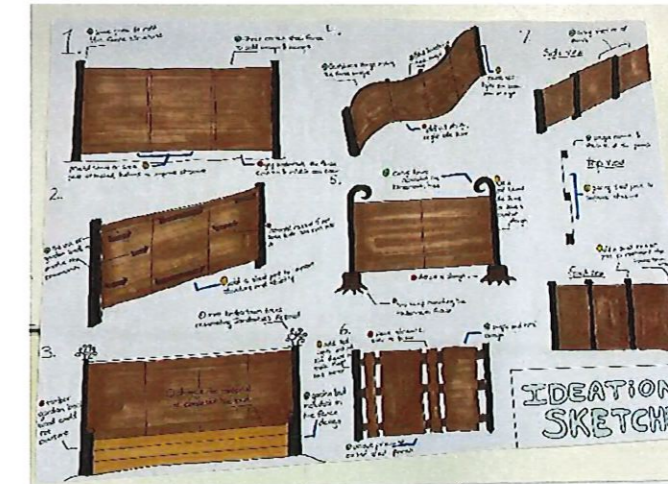
For the prototype, the selected synthesis 3 was chosen as the final idea to run with and to design. With the prototype, the design has progressed my understanding by showing the growth and the changes of the design. Changing elements of each idea to getting all of them fitting together to create an aesthetic and unique design that will hopefully satisfy and please Jandowae community. As the design was being made into a 3D model, the design looked interesting, as all the components of each idea had come into one equipment, in which had looked unique. What also was interesting about prototyping was seeing the structure of the fence, providing a vision on what the design would look like.

The materials that was used to create this prototype was paper, wood stems, paper tape and modelling clay. Some material that could have been used that could have helped communicate the overall design a lot better would be the use of metal wiring, to help with the communication of the bend in the fence design.

Some refinements that I would make to the prototype is changing the colour of the paper that I used. The reason on the colour choice is because the colour that was used for the prototype was slightly too light, not representing a corten steel panel colour very well. Another refinement that could have been added is improving the structure and the sturdiness of the prototype. As seen at the bottom of every wooden stem, there is modelling clay used to hold the structure still and upright. These refinements could help with the coherency of the prototype and the overall structure of the design

A strength in this design would be the structure of this design. The fence design for this synthesis is unique, including bends in the structure of the fence. This improves the aesthetics of the fence design and it steers away from the basic and straight fence structure. The fence structure also includes an element from idea no.5, the oak stumps, which resembles the timber town festival that is held annually. This is another strength. However, with strengths, there comes limitations. A limitation to this design would be the complexity of the structure. Even though the design is unique, the bend that is seen in the structure of the fence will be hard to replicate in real life. This also includes the oak stumps, as they will also be hard to construct.





## Supporting page

The aim of this project was to design a park fence for the central park at Jandowae. The goals that the stakeholders needed us design students to consider was to reflect and dig a little deeper into the town's identity. This could have been the community, the history of Jandowae, the social and cultural background of the land and the diversity which the small community holds. The features of my final design that met the needs and wants of the stakeholders were the images that were used, diving deep into the towns identity and the history of the land and community. With this the images included the wild dog barrier fence, the history and meaning behind the town's name and the area, and lastly the rich agriculture that is present in the small community. The structure of the fence had included the timbertown festival, an annual event that is held yearly in Jandowae, by including small timbertown trees on top the posts and oak stumps at both ends of the fence structure. The Jandowae community and council should choose my fence design as it is unique, having a bend like pattern and includes elements that reflect the community. It also reflects the history, culture and the diversity that the town holds.