OCULUS

BY JAMES PETERSON

CONCEPT

OCULUS was inspired by the spirit of play. Engaging the elements of wind and sun to create a radiant, kinetic piece treating visitors to a kaleidoscopic portal of the heavens.

I am personally moved by the intended impact the New Studio City Recreation Center wishes to have on its community and its young patrons. Because of the commitment to LEED certification and the intention of awareness to work with the environment. As I was investigating the diagrams and new facility design I was quite taken by the main plaza area. This location with its sense community and respite called to me for the place to house a dynamic environmentally responsive site specific installation.

Taking inspiration from these elements I designed the OCULUS to react and celebrate these natural environmental patterns. The piece will be 30’ in diameter and have an array of aluminum panels adorned with dichroic petals. The form is inspired by the radial geometry of organic patterns found in nature. Each of these metal ribs that array around the circle will be connected in a way that allows for them to slightly sway in the breeze, giving form to the wind as it is moving through the piece. The dichroic panels will be mounted at progressive changing angle as they move inward, to capture and reflect the suns light in a constantly morphing color palette as the sun travels through the day. This dichroic material also allows for both transparency and reflection symbolizing two things that as humans I feel we need more of in this world. I feel that the subtle wave like motions and bathing in a sea of color will promote a peaceful, and joyful experience in the plaza capturing the minds of young and old alike. In respect to the LEED certification of the structure the color shifting panels will be simple rectangular shapes designed to be a efficient use of the material and minimize waste during fabrication.

RENDERINGS & DIAGRAMS

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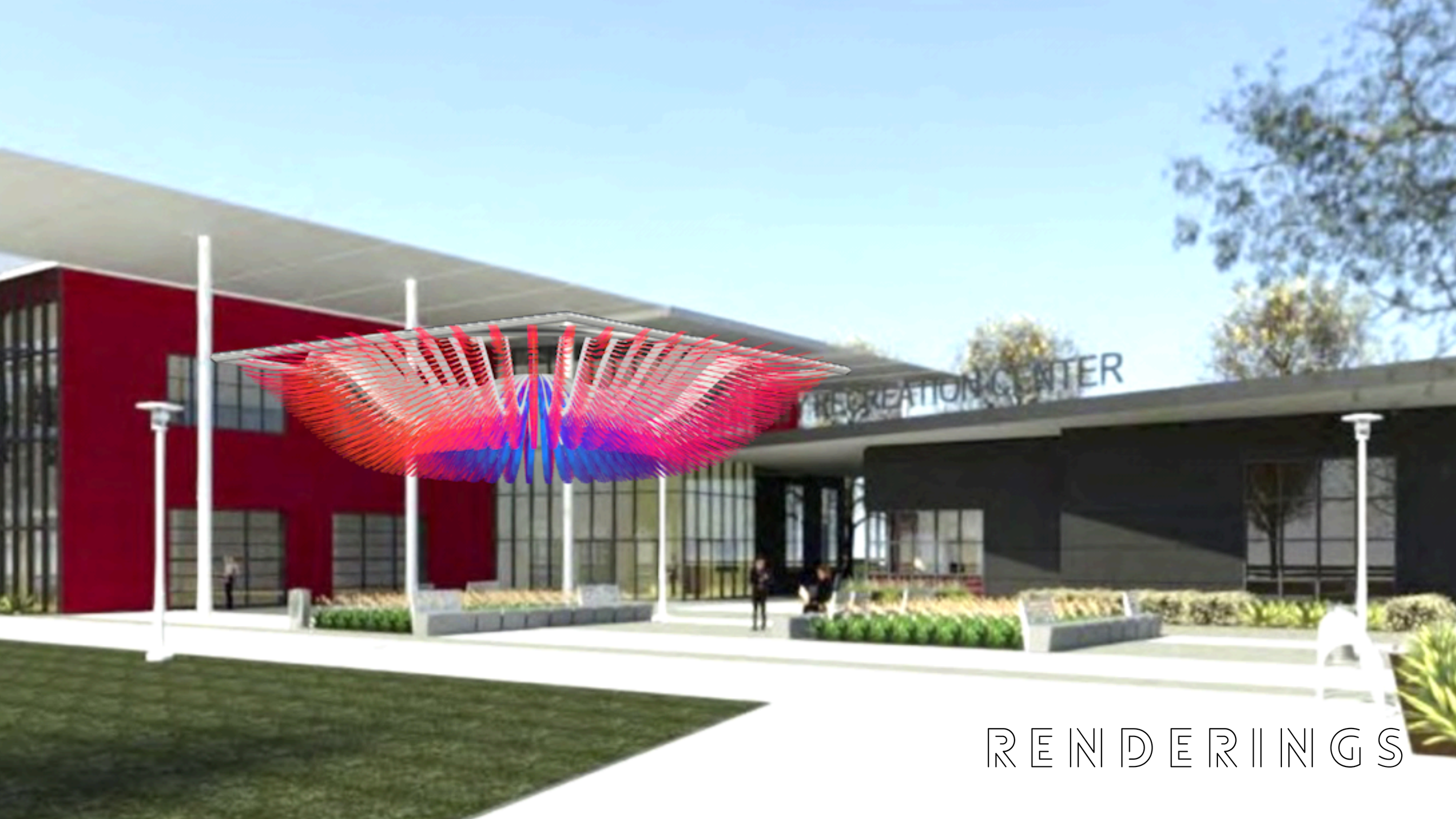

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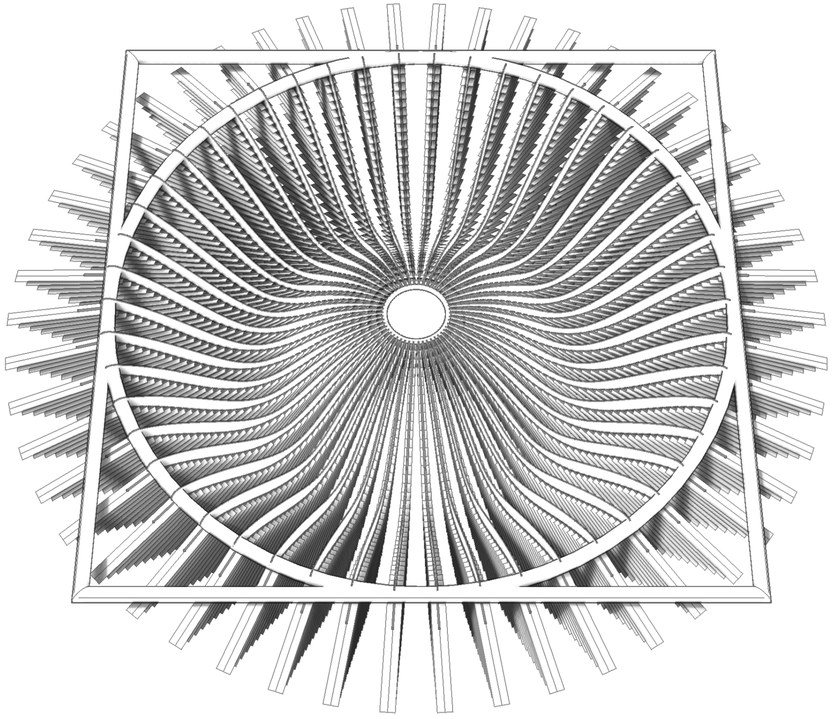
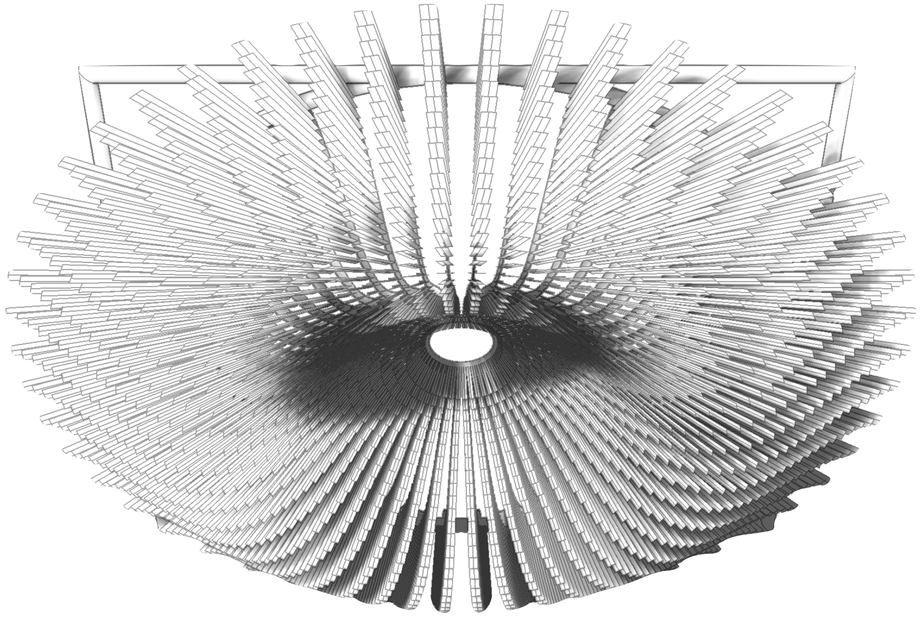
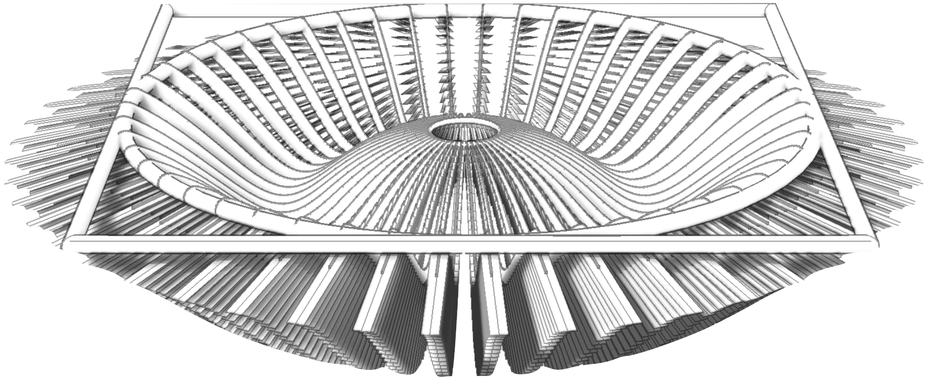
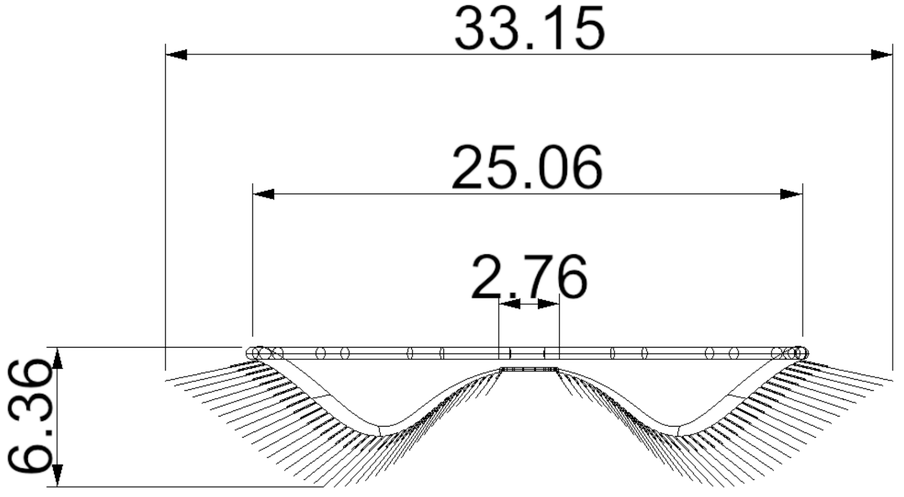







33.15
25.06
2.76
6.36

MATERIAL REFERENCES

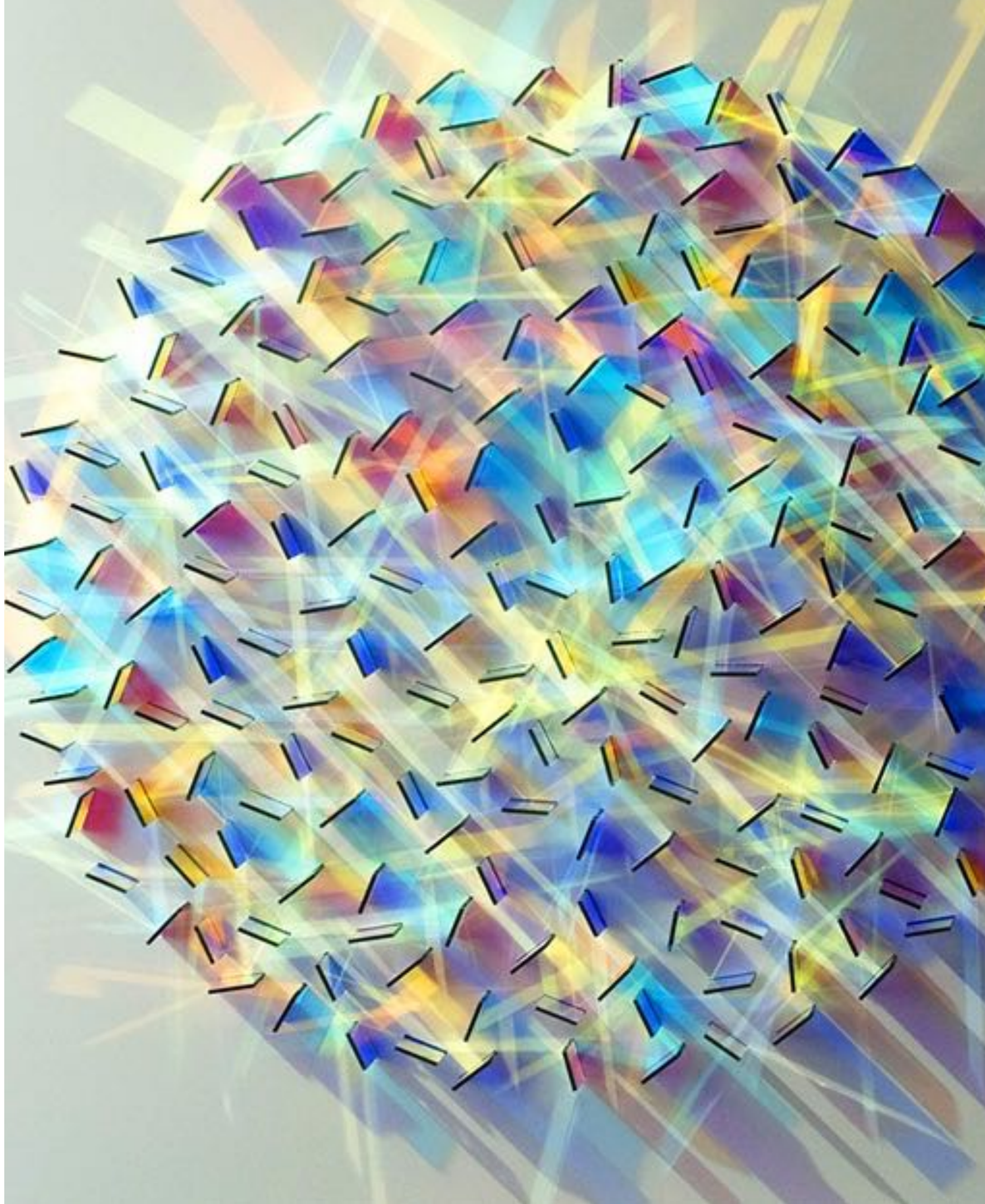
INSTALLATION PLAN & LIGHTING

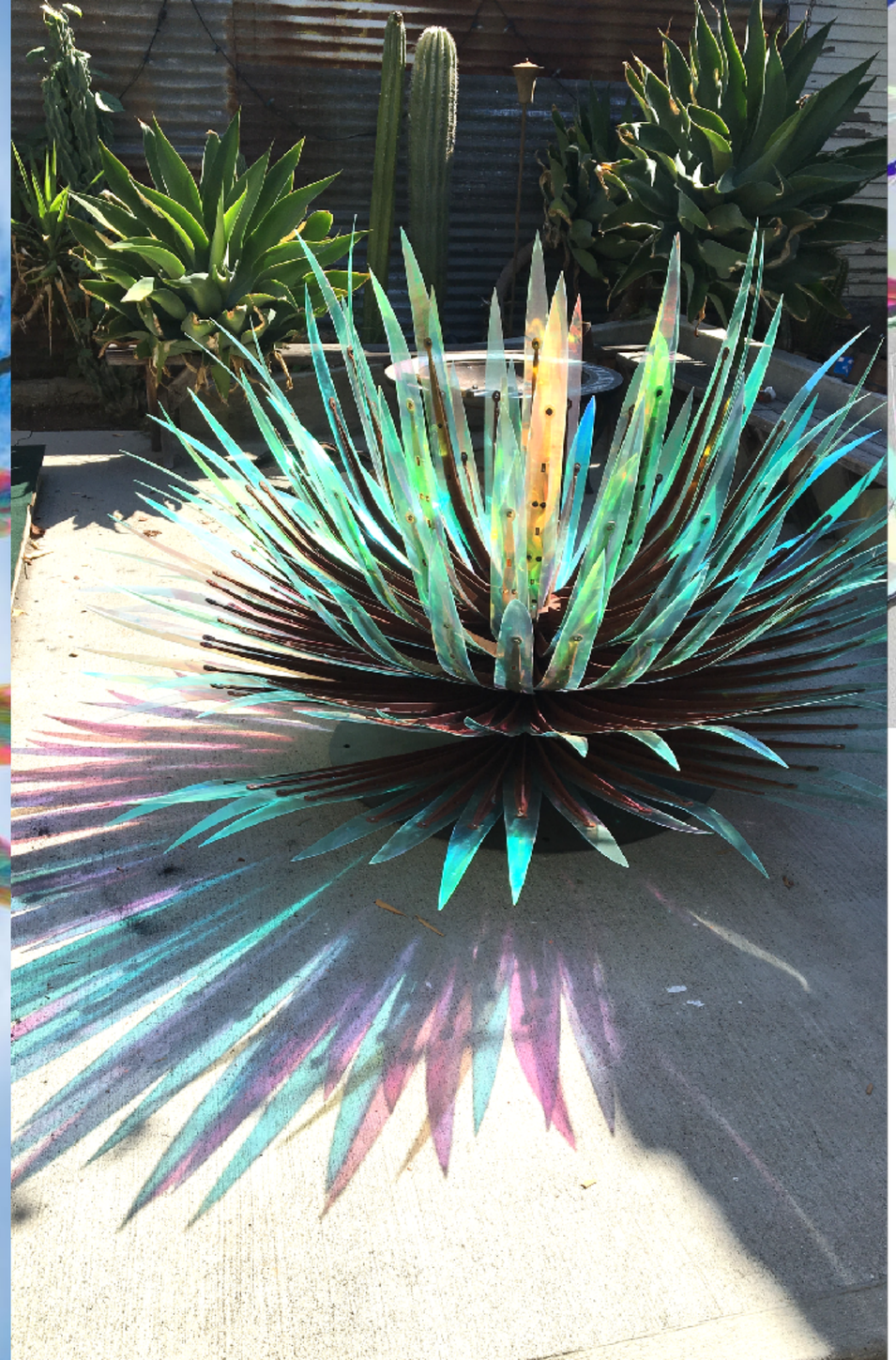
Installation Plan: The installation process is to bring the sculpture to the site in a modular fashion, to be assembled on site by the artist and 2-4 technicians.

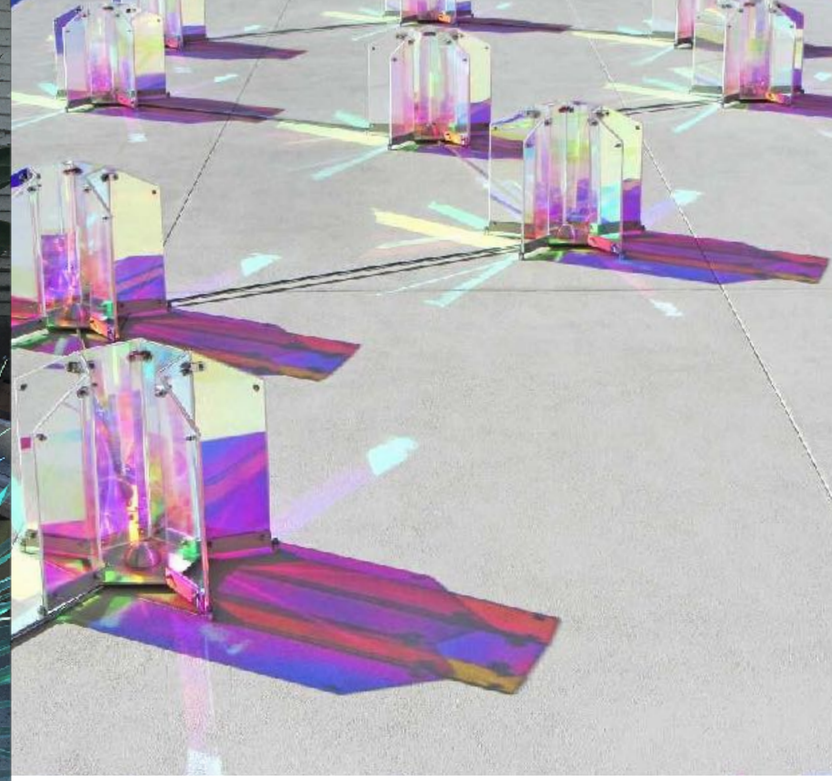
The foundation and structural work will be performed prior and then the piece will arrive and be installed over the course of 12 days. There may be no need for road closures, but a boom lift will be required and the artist will coordinate the use of a mid size transport vehicle with a lift gate. The intention is to be able to unload during an optimal time of day and week to minimize the impact of traffic.

The sculpture because of the manner in which it is constructed can be maintained if there is any vandalism, or damage. The cost of the repairs and will be assessed and a determination if there needs to be a claim or if the city wishes to pay for the repair then be reimbursed by the insurance will be discussed on a case by case basis.

Lighting: The lighting elements will comprise of surface mount LED flood light fixtures, that will have a photoelectric eye to automatically turn the on at dusk. The plan is to have 4 fixtures and located in close proximity to enhance the translucency of the sculpture.







CASE STUDIES

BUDGET & TIMELINE

The estimated timeline for fabrication and installation is approximately **5 MONTHS.**

Item	Description	Unit Cost	Quantity	Line Total
Aluminum Sheet	6061 48x144 1/8" import	265.00	50	13,250.00
Plastic	4x8 of material radiance	380.00	30	11,400.00
Steel	3" steel tubing	2,150.00	1	2,150.00
Steel Cable	Steel cable and ferrules	975.00	1	975.00
Roll Forming		2,700.00	1	2,700.00
Powder Coating	Powder Coating services	1,100.00	1	1,100.00
Foundation		5,100.00	1	5,100.00
Hardware	Connection and leveling hardware	5,250.00	1	5,250.00
Labor	Labor + Expenses + Processes	12,800.00	1	12,800.00
CNC miling		4,200.00	1	4,200.00
Laser Cutting	Laser cutting services	4,100.00	1	4,100.00
Engineering		4,750.00	1	4,750.00
Permitting	Required permits for installation	670.00	1	670.00
Installation	Installation of material	4,200.00	1	4,200.00
Contingency		7,200.00	1	7,200.00
			Estimate Total	$79,845.00

PAST WORKS

HYPOXIIA

SESSILANOID

DREAMCATCHER

ASTERALES

CACTI

LOTUS

REACTION

TESSELLATION

OCULUS

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