

# HARPER ST. ASPHALT PLANT

Conceptual Design Presentation

NYC Percent for Art Program

**GRIMANESA AMORÓS, Artist**

# PREVIOUS ARTWORK

GRIMANESA AMORÓS



GRIMANESA AMORÓS, Artist  
Conceptual Design Review  
November 15, 2021

NYC Percent for Art Program  
HARPER ST. ASPHALT PLANT  
DCLA%/DDC/PERCENT FOR THE ARTS/STANTEC

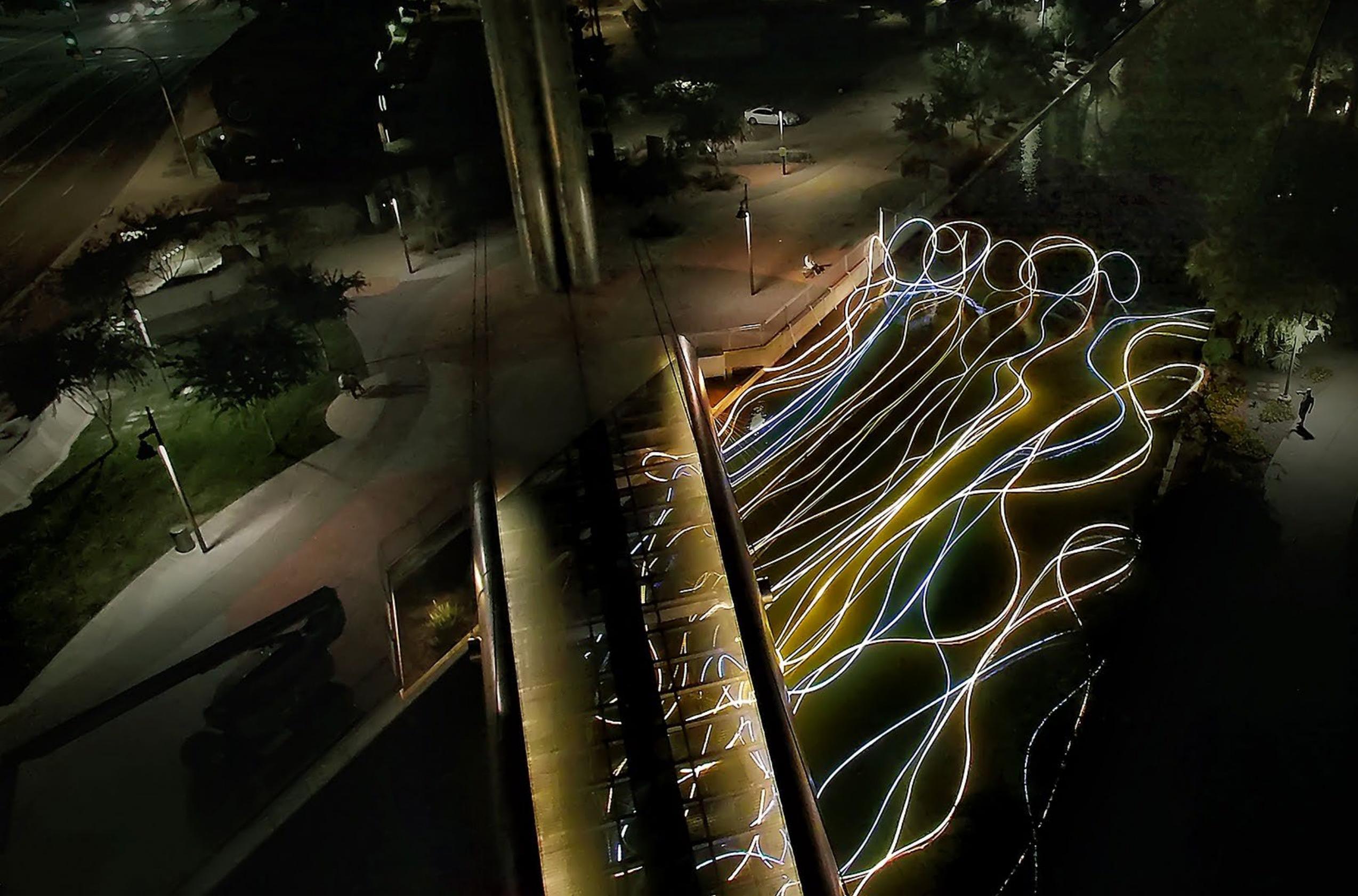
**RACIMO**, Allure Of The Seas Turku, Finland 2010  
LEDs, diffusion and reflective material, custom lighting sequence, electrical hardware  
46' x 27' x 3'



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**GOLDEN WATERS**, Soleri Bridge, Scottsdale, AZ 2015  
LEDs, diffusion and reflective material, custom lighting sequence, electrical hardware  
40' x 164' x 18'



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**HEDERA**, Prospect Park Bandshell Brooklyn, NY 2018  
LEDs, diffusion and reflective material, custom lighting sequence, electrical hardware  
50' x 50' x 40'



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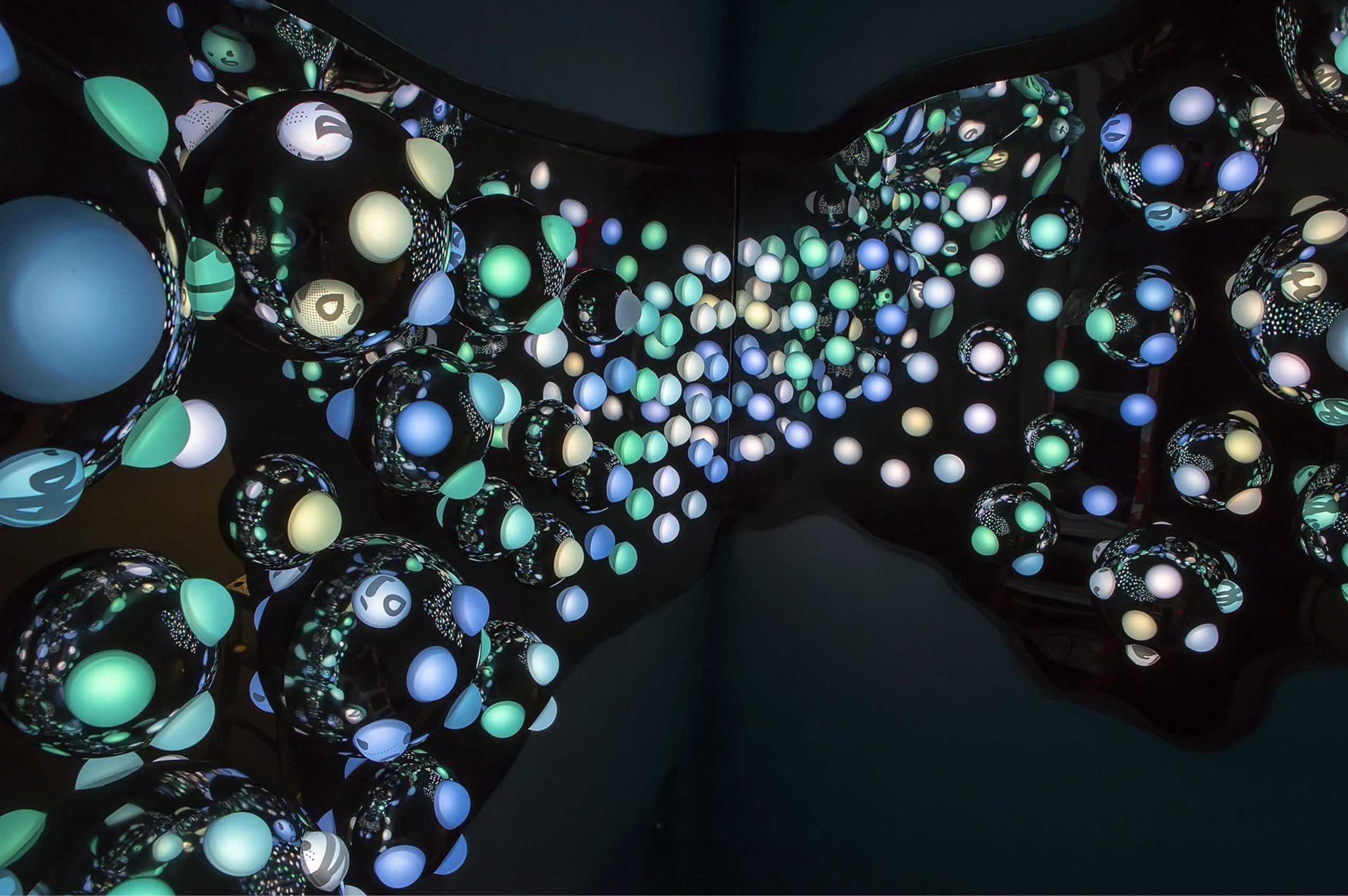
**GOLDEN ARRAY**, Mumbai India 2021  
LEDs, diffusion and reflective material, custom lighting sequence, electrical hardware  
210' x 25' x 70'



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**PINK LOTUS**, The Peninsula Hotel New York, NY 2015  
LEDs, diffusion and reflective material, custom lighting sequence, electrical hardware  
41' x 31' x 17'



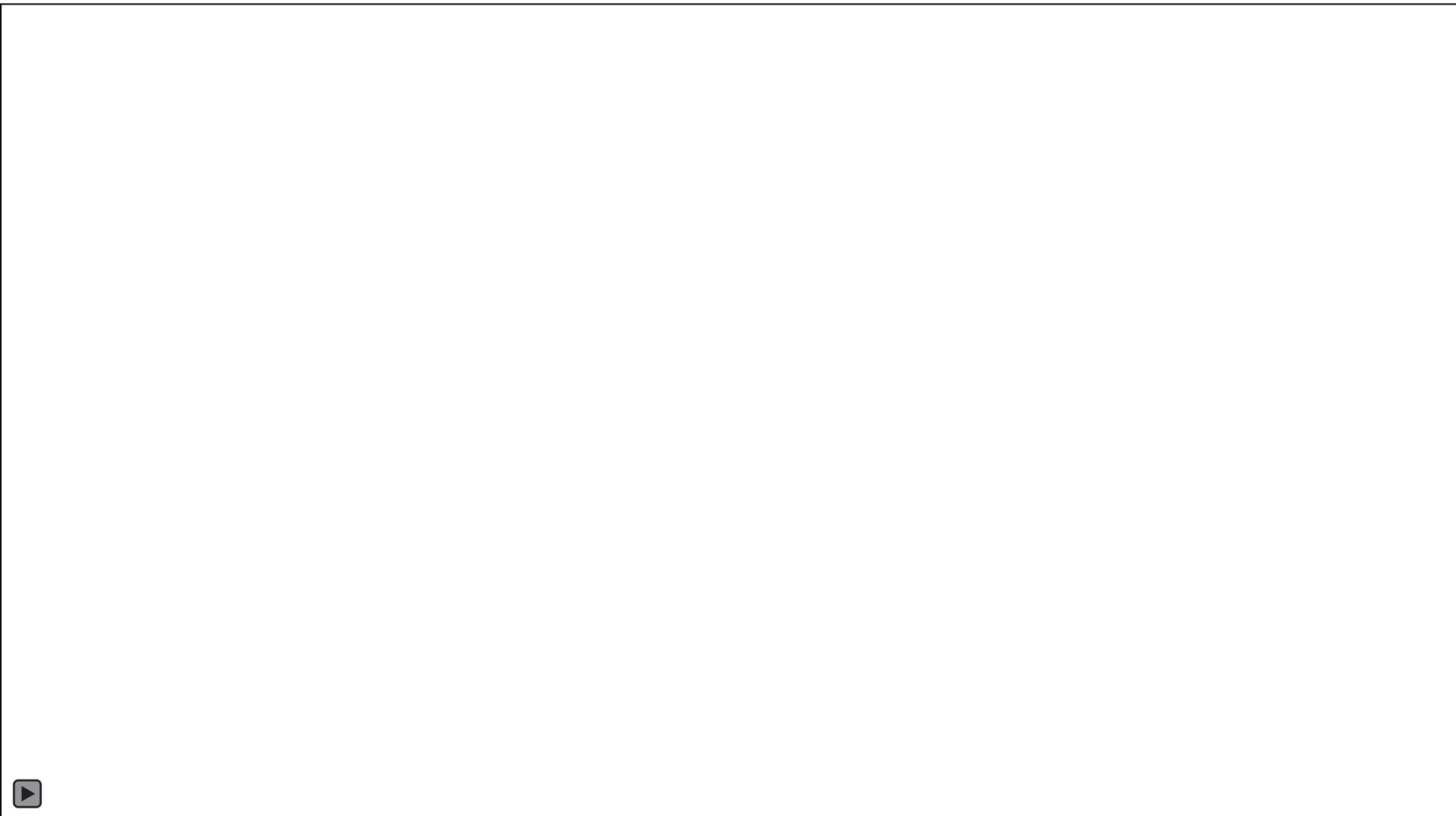
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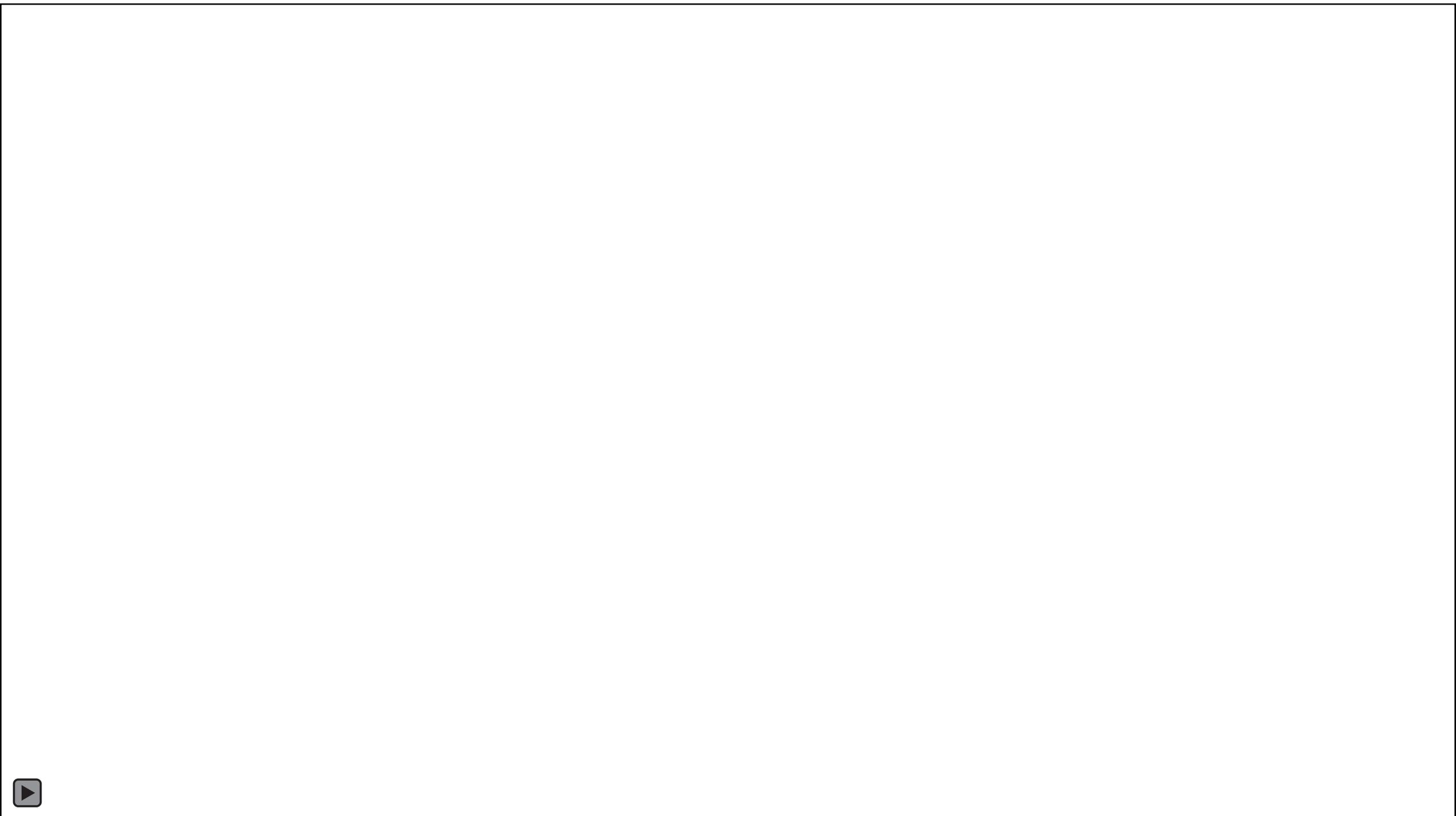
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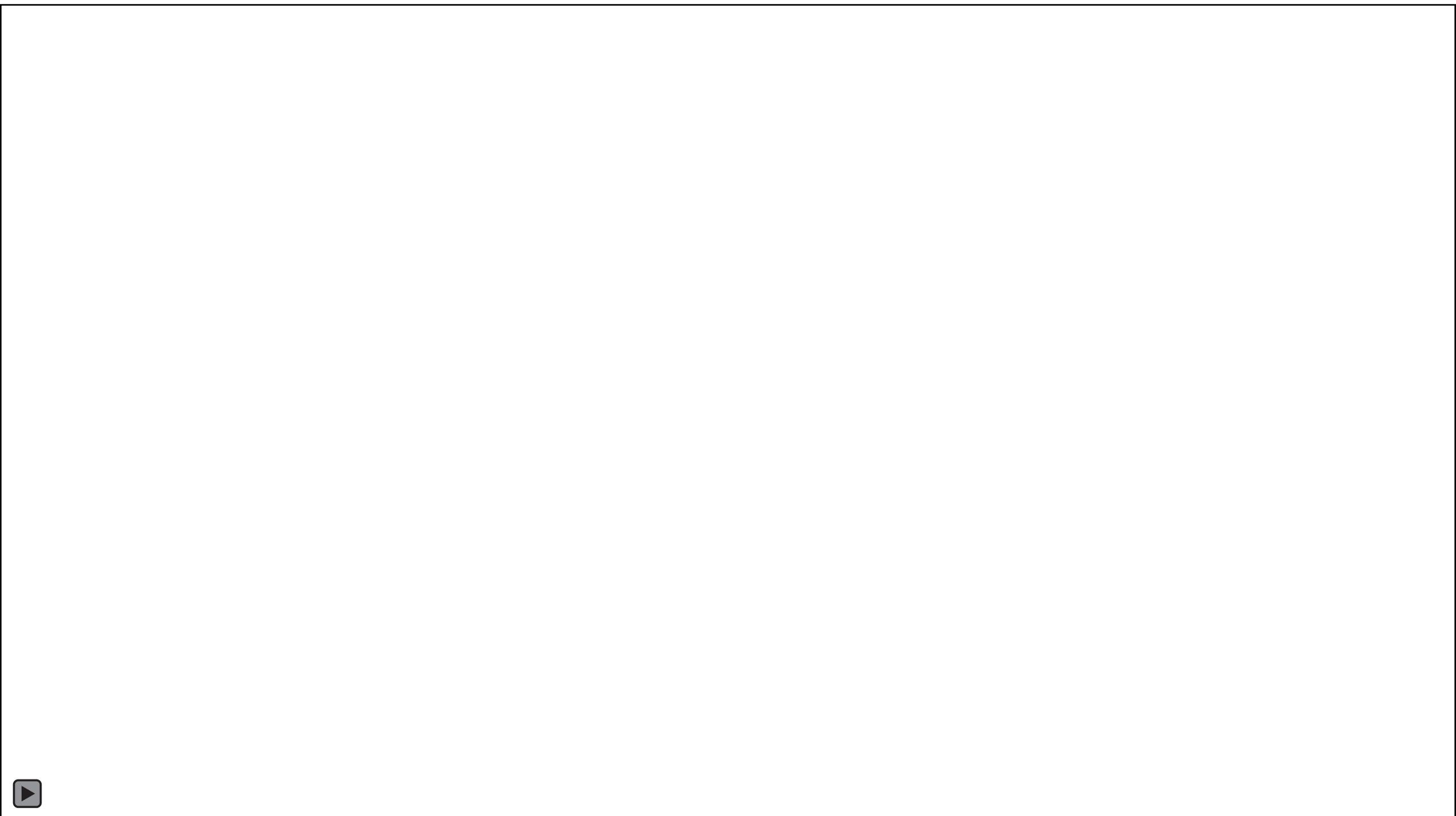
**ARGENTUM**, 80 White St New York, NY 2018  
LEDs, diffusion and reflective material, custom lighting sequence, electrical hardware  
9' x 5'4" x 5'4"

# LIGHTING SEQUENCE SAMPLES

GRIMANESA AMORÓS



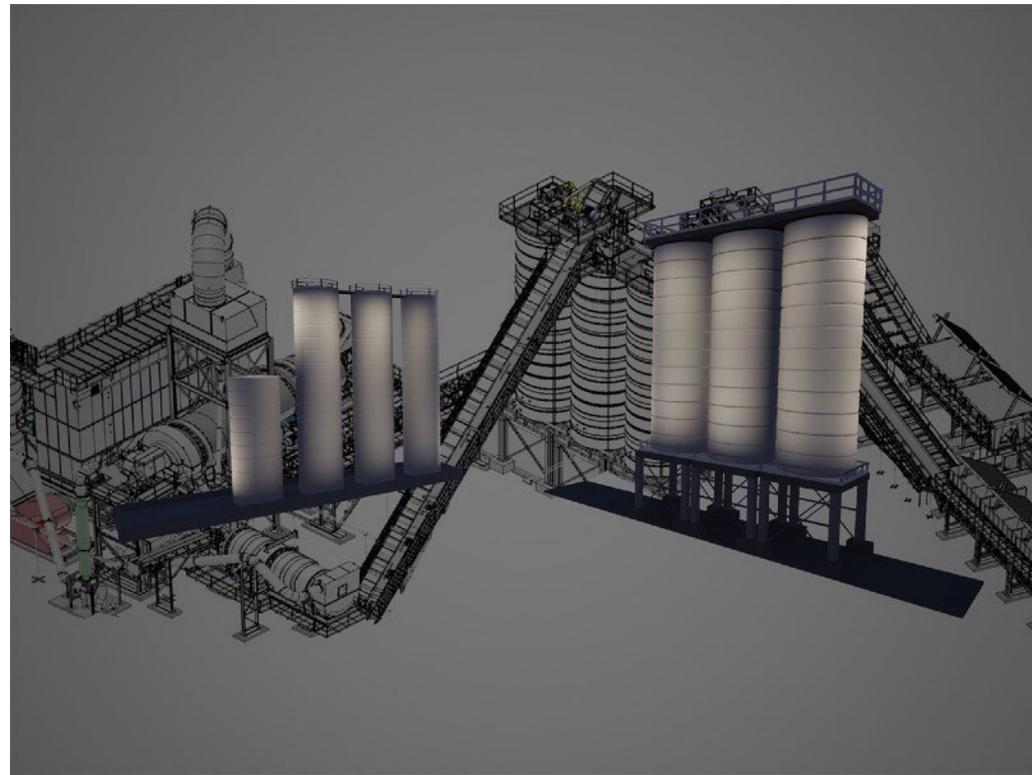
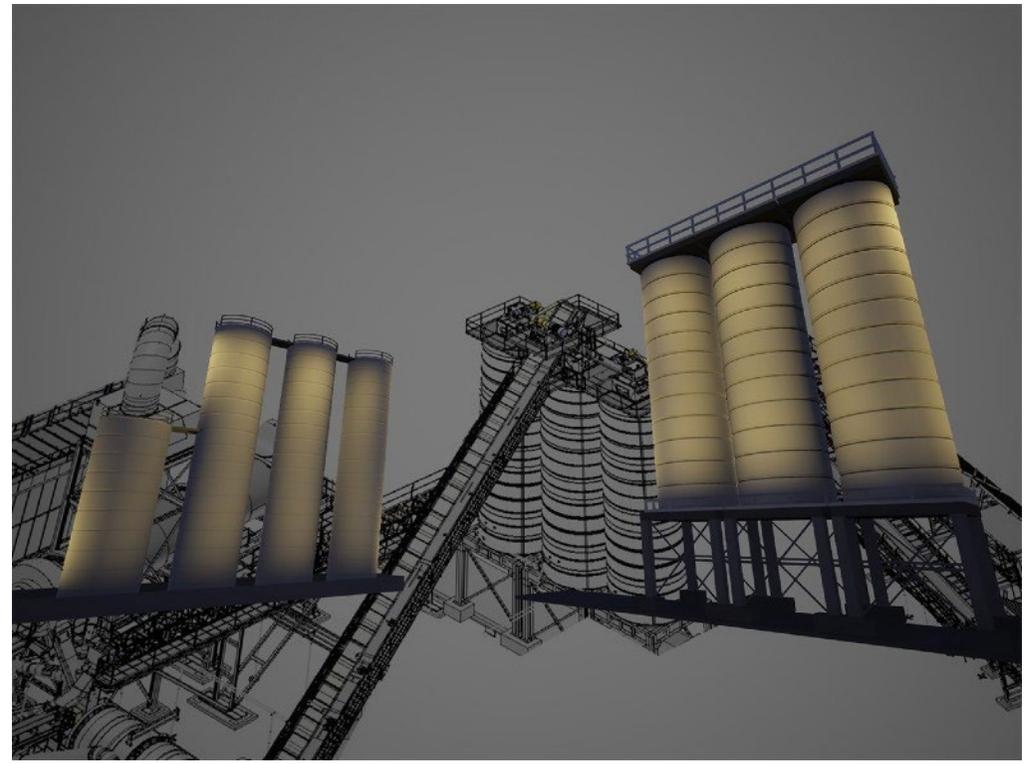
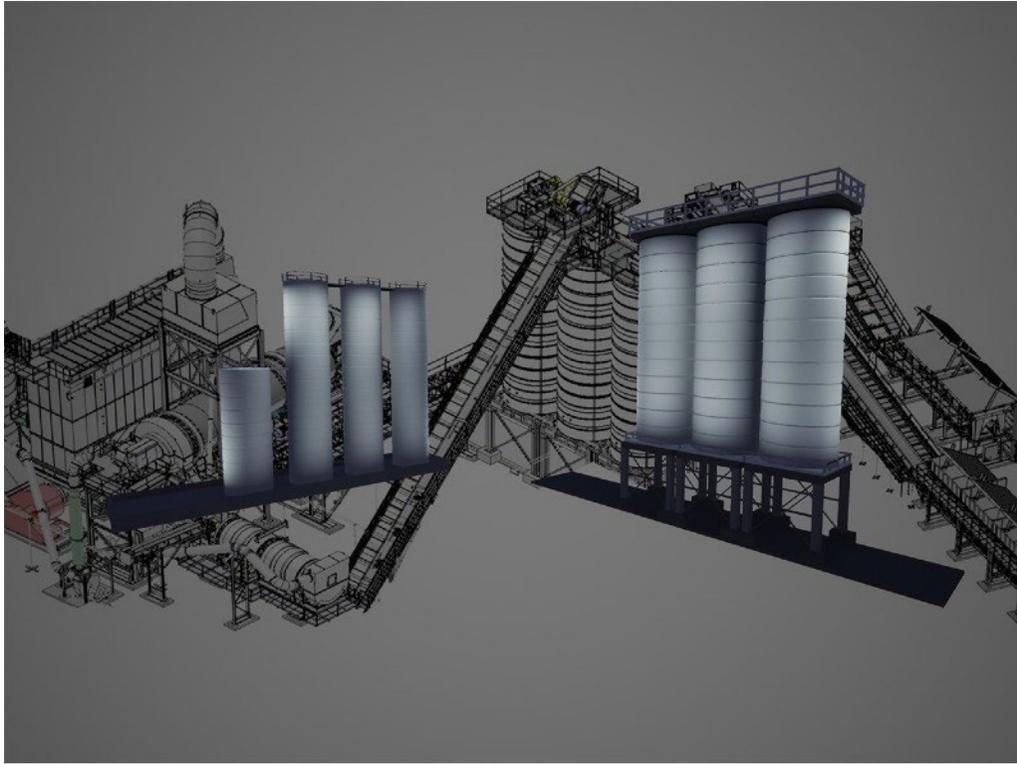




# ***FLEXUS***

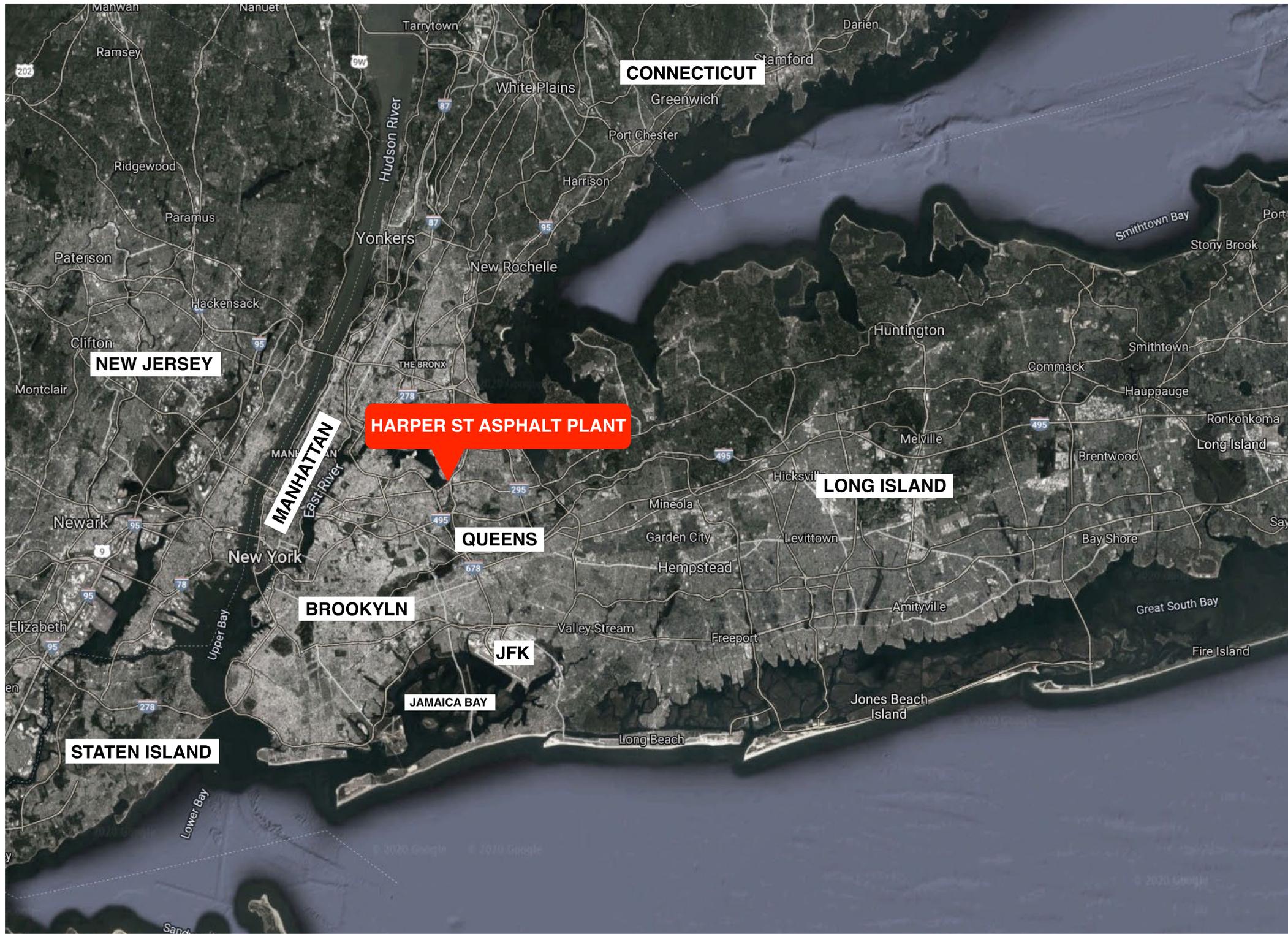
Percent for Art Panel

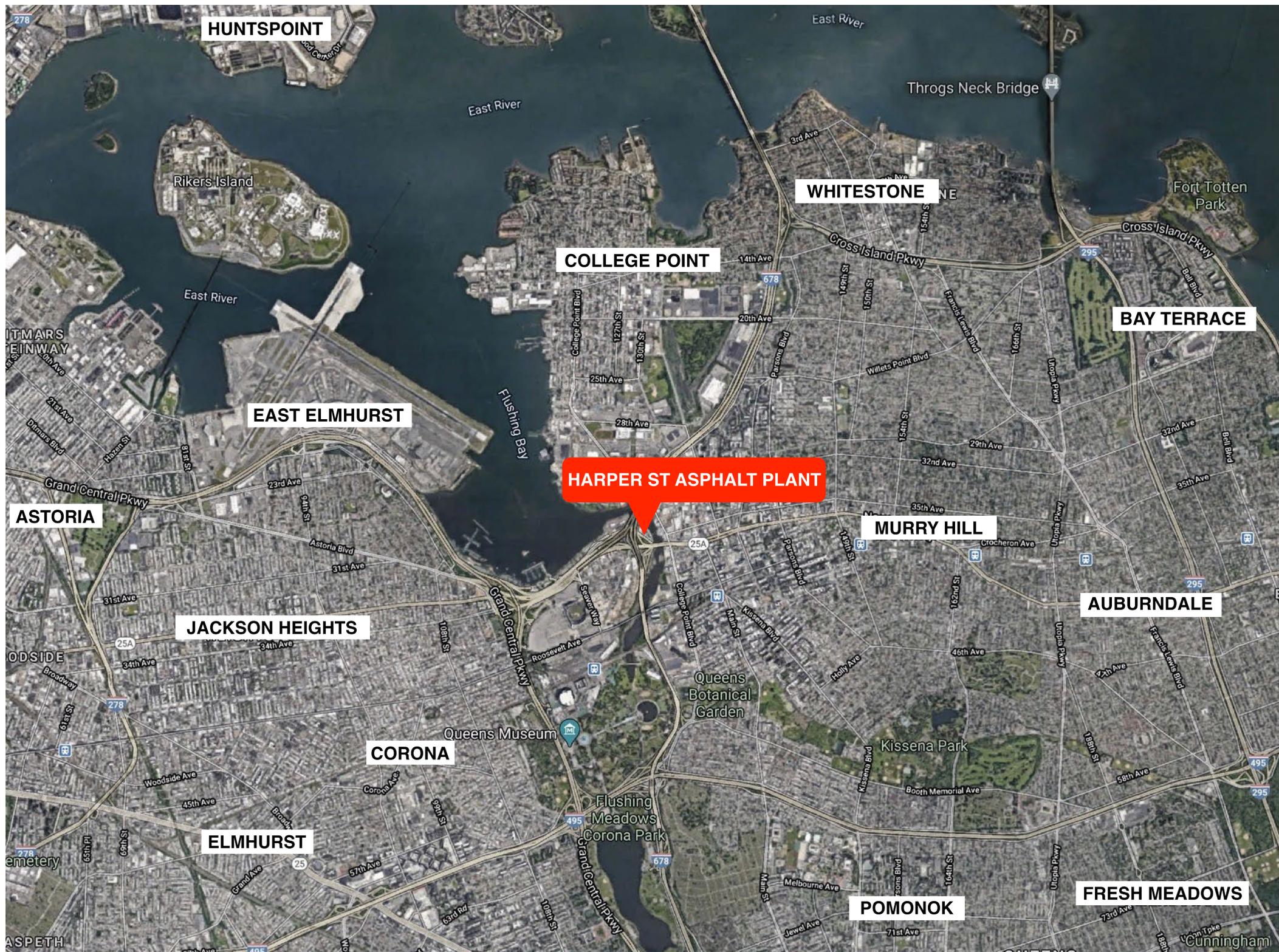
Proposal for a lighting art installations  
at the Harper St. Asphalt Plant in Queens, NY



# PROJECT SITE

Harper St. Asphalt Plant







**HARPER ST ASPHALT PLANT**





**Asphalt Site North  
East Bound View**



**Asphalt Site North  
West Bound View**



**Asphalt Site North  
West Bound View**



**Asphalt Site North  
East Bound View**



**Harper St. Entrance  
North East Bound View**



**Asphalt Site South  
East Bound View**



**Asphalt Site North West Bound View**



**Asphalt Site East Bound View**

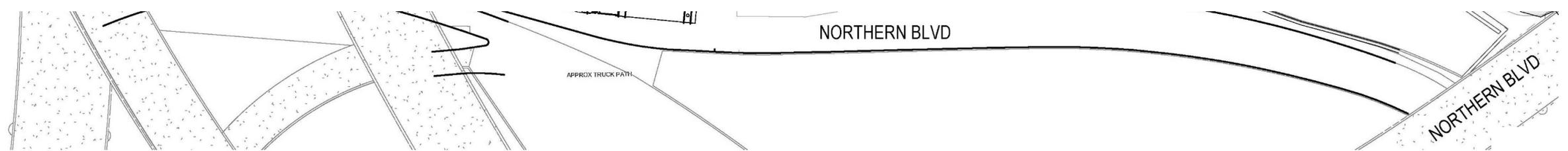


**AC Tanks and Silos Aerial South West Bound View**

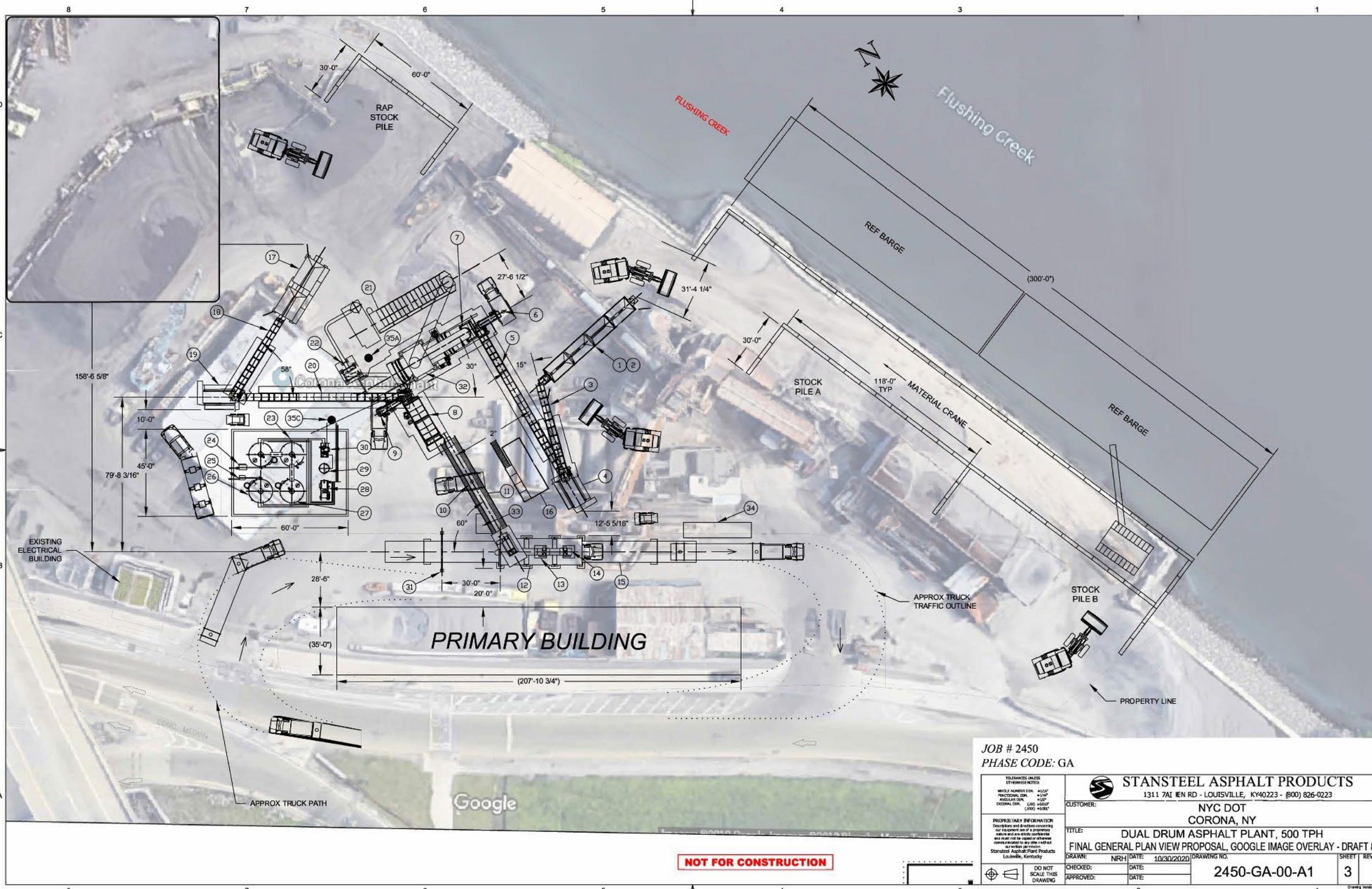


**AC Tanks and Silos South Bound View**





# Architecture Site Plan

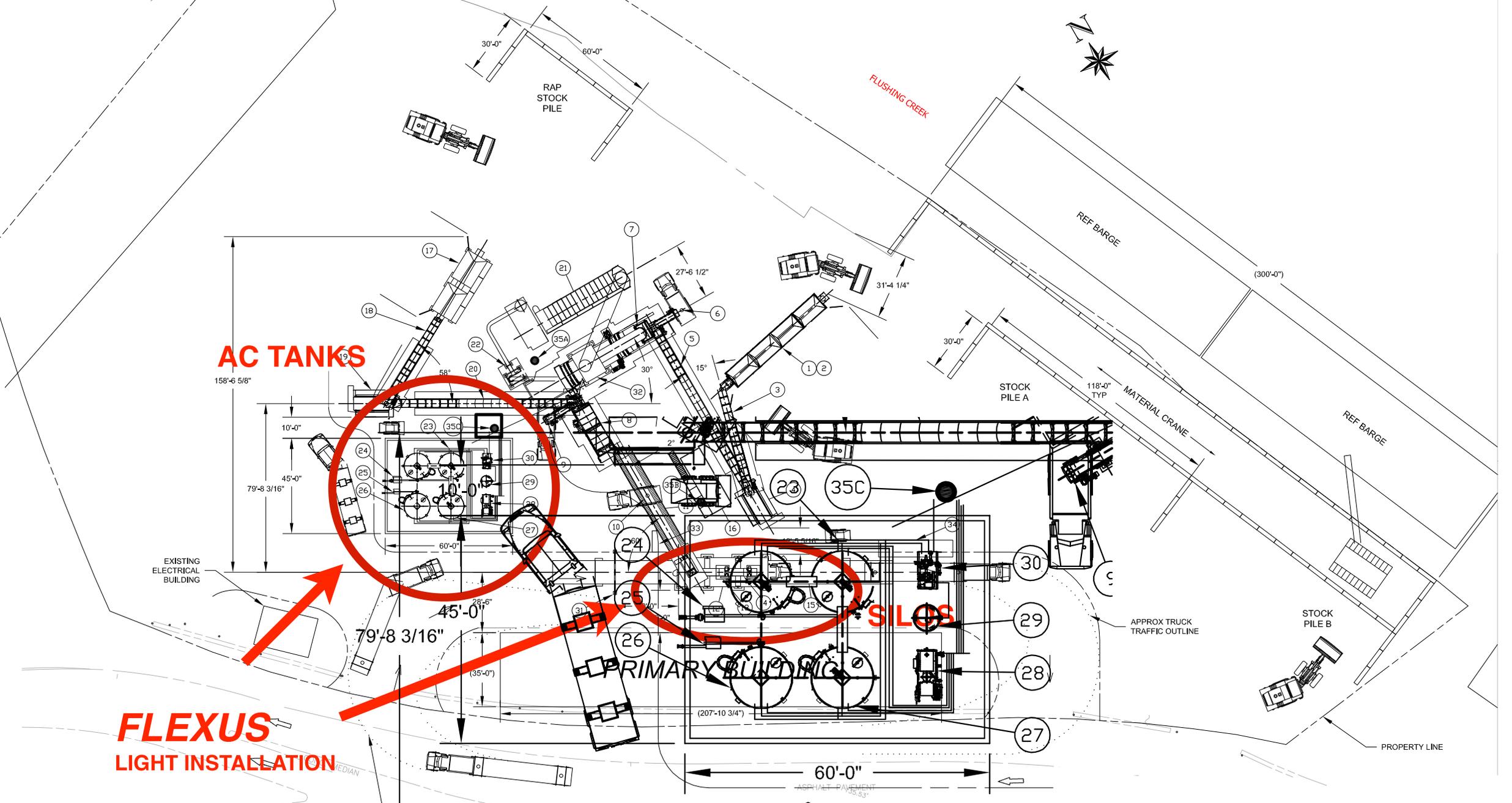


JOB # 2450  
 PHASE CODE: GA

<p><b>STANSTEEL ASPHALT PRODUCTS</b>          1311 7<sup>th</sup> AVENUE RD - LOUISVILLE, KY40223 - (800) 826-0223</p>	
<p>CUSTOMER: NYC DOT          CORONA, NY</p>	
<p>TITLE: DUAL DRUM ASPHALT PLANT, 500 TPH          FINAL GENERAL PLAN VIEW PROPOSAL, GOOGLE IMAGE OVERLAY - DRAFT 8</p>	
<p>DRAWN: NRH          CHECKED: [ ]          APPROVED: [ ]</p>	<p>DATE: 10/30/2020          DATE: [ ]          DATE: [ ]</p>
<p>DRAWING NO. 2450-GA-00-A1</p>	
<p>SHEET 3</p>	

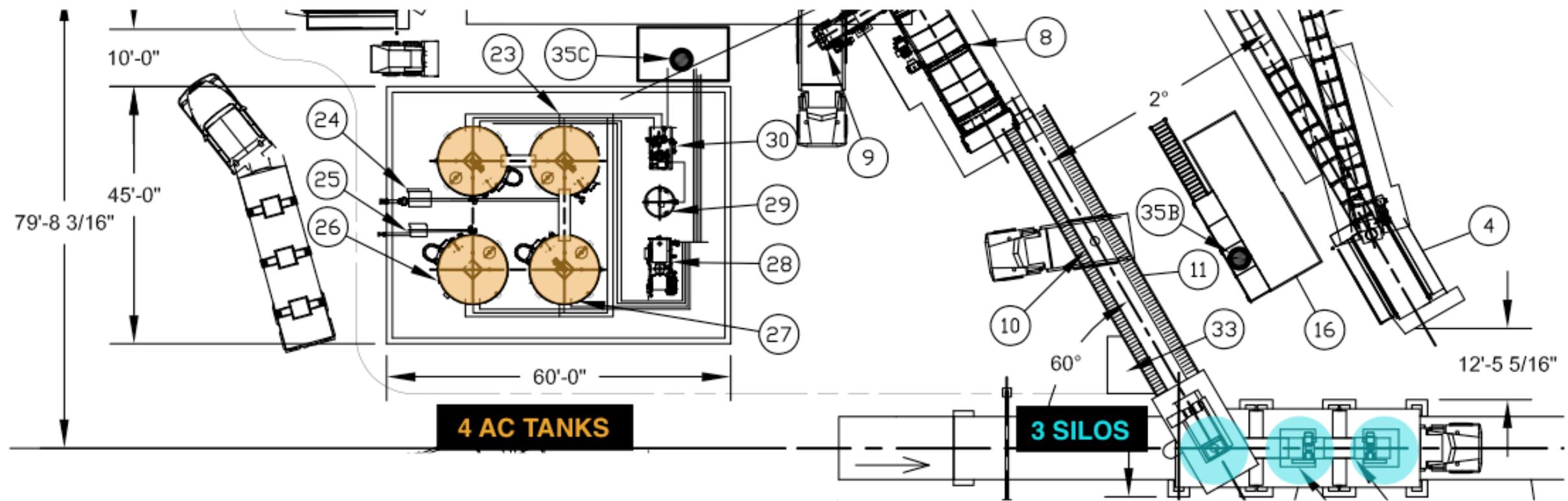
**NOT FOR CONSTRUCTION**

DO NOT SCALE THIS DRAWING

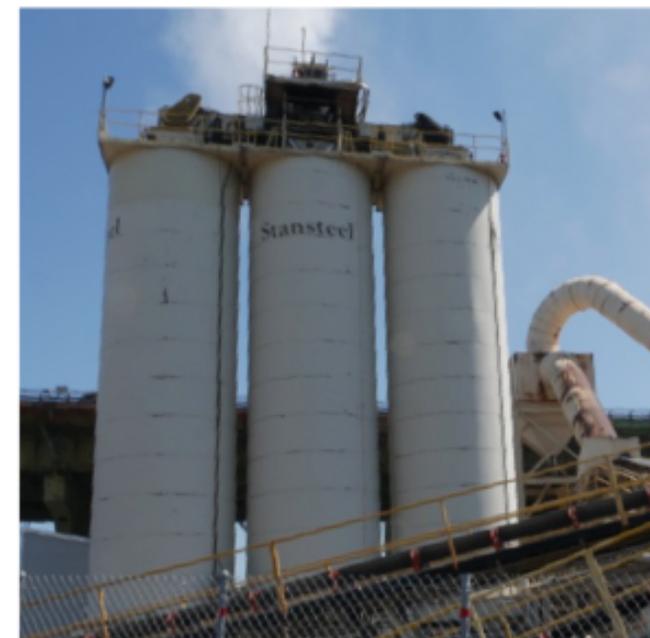


- a. RBO/R 919 FAN
- 23. AC & HOT OIL PIPE SYSTEM
  - a. 3" JACKETED AC SUPPLY / RETURN LINES
  - b. 4" JACKETED AC FILL LINES
  - c. 2" HOT OIL SUPPLY & RETURN LINES
- 24. 4" AC UNLOADING PUMP SKID
  - a. 300 GPM, 20 HP
  - b. HOT OIL JACKETED
- 25. 3" EMULSION UNLOADING PUMP SKID
  - a. GPM TRD. HP TRD.
- b. ELECTRICALLY HEATED
- 27. AC TANKS (3)
  - a. 30,000 GALLON CAPACITY
  - b. AGITATORS, 5 HP
  - c. ACCU-LEVEL SENSOR
  - d. HOT OIL HEATED
- 28. HOT OIL HEATER
  - a. 100 GPM PUMP, 10 HP
- 29. AC CALIBRATION TANK (VERTICAL)
  - a. 1000 GALLON CAPACITY
- 30. 3" TRU-FLO AC PUMP & METERING SKID
  - a. 20 HP

**HOT OIL HEATER  
NOT FOR CONSTRUCTION**



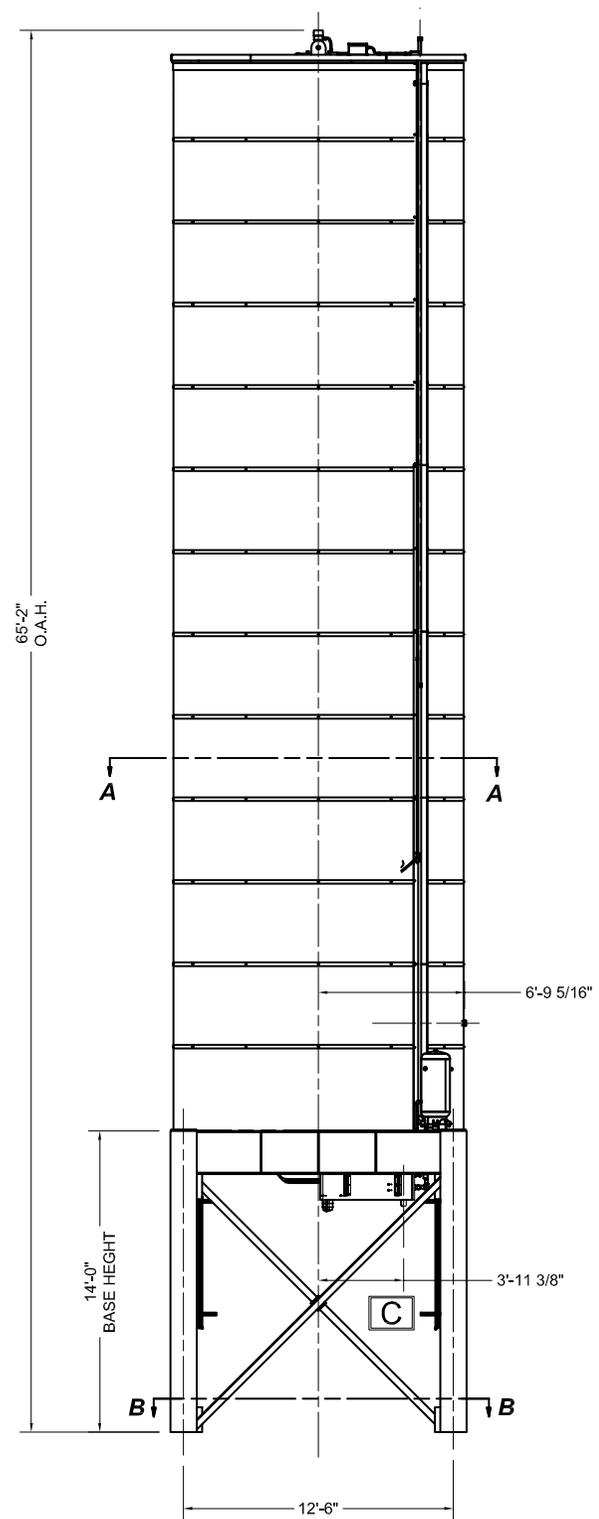
AC Tanks Reference



Silos Reference

## Architecture Site Plan for Artwork

# Schematic Elevation Drawings



**AC TANKS**

**SILOS**

# FLEXUS LIGHT CONCEPTUAL PRESENTATION

# AC Tank and Silo surface color: light cool gray

The artist has selected the paint color for the Silos and AC Tanks.

**PANTONE**  
Cool Gray 4 C

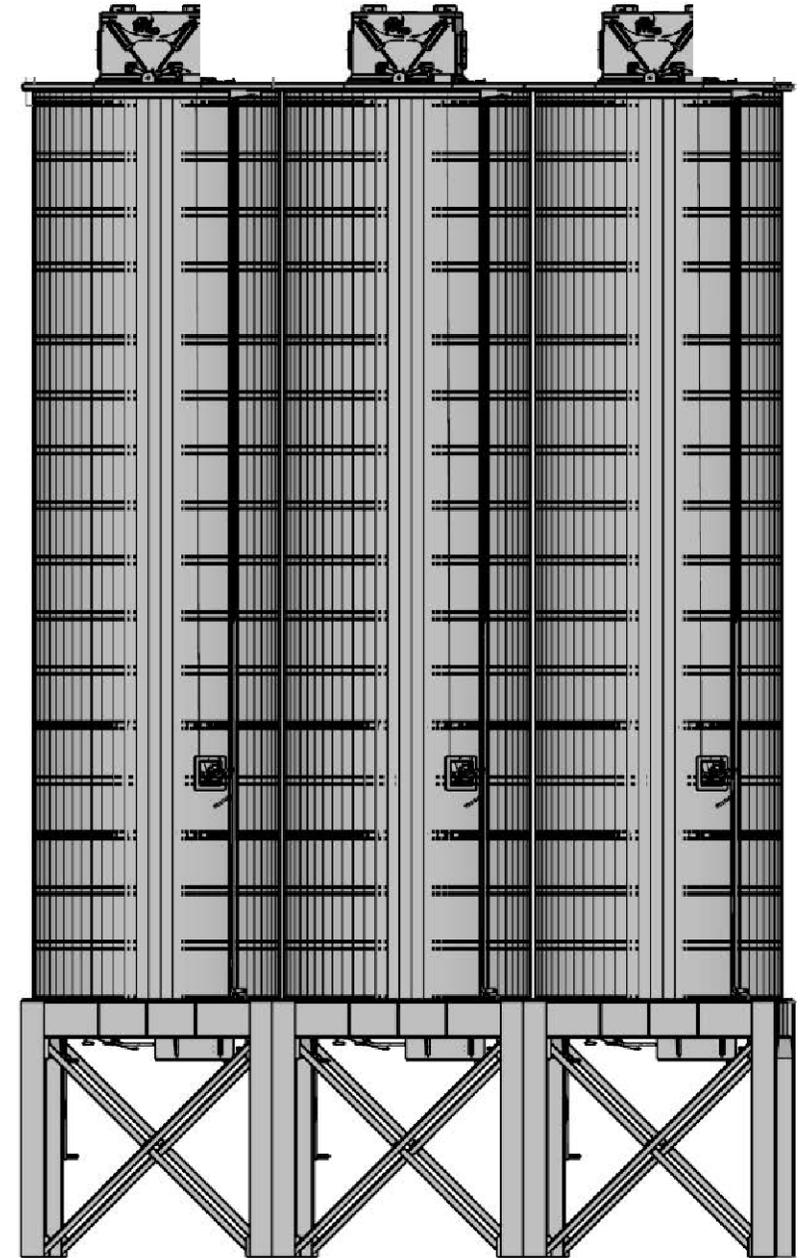


**PRIMARY PAINT FINISH**

All Equipment (Excluding Silo & Vertical A.C. Tank Canvas)

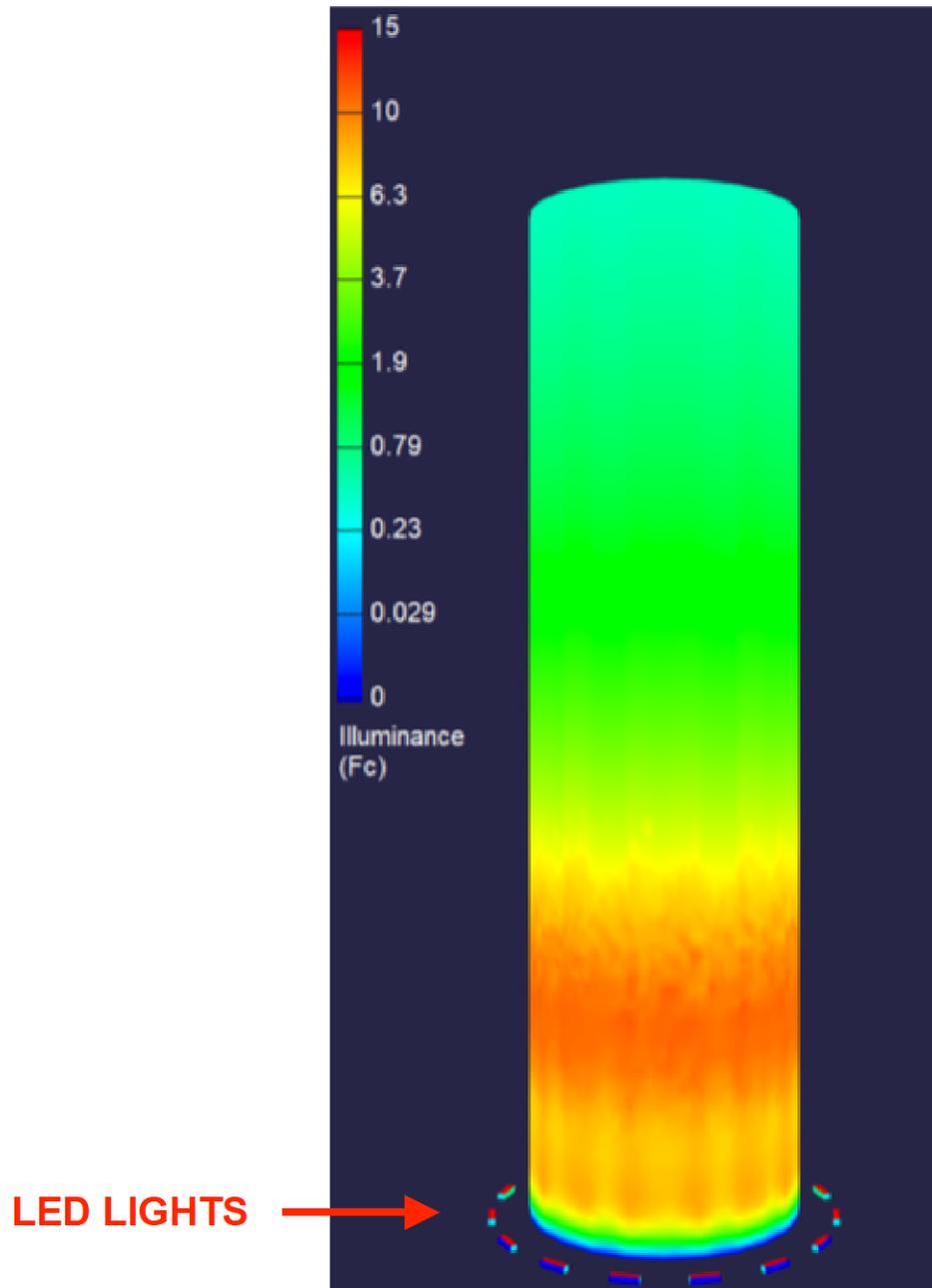


**AC TANKS**



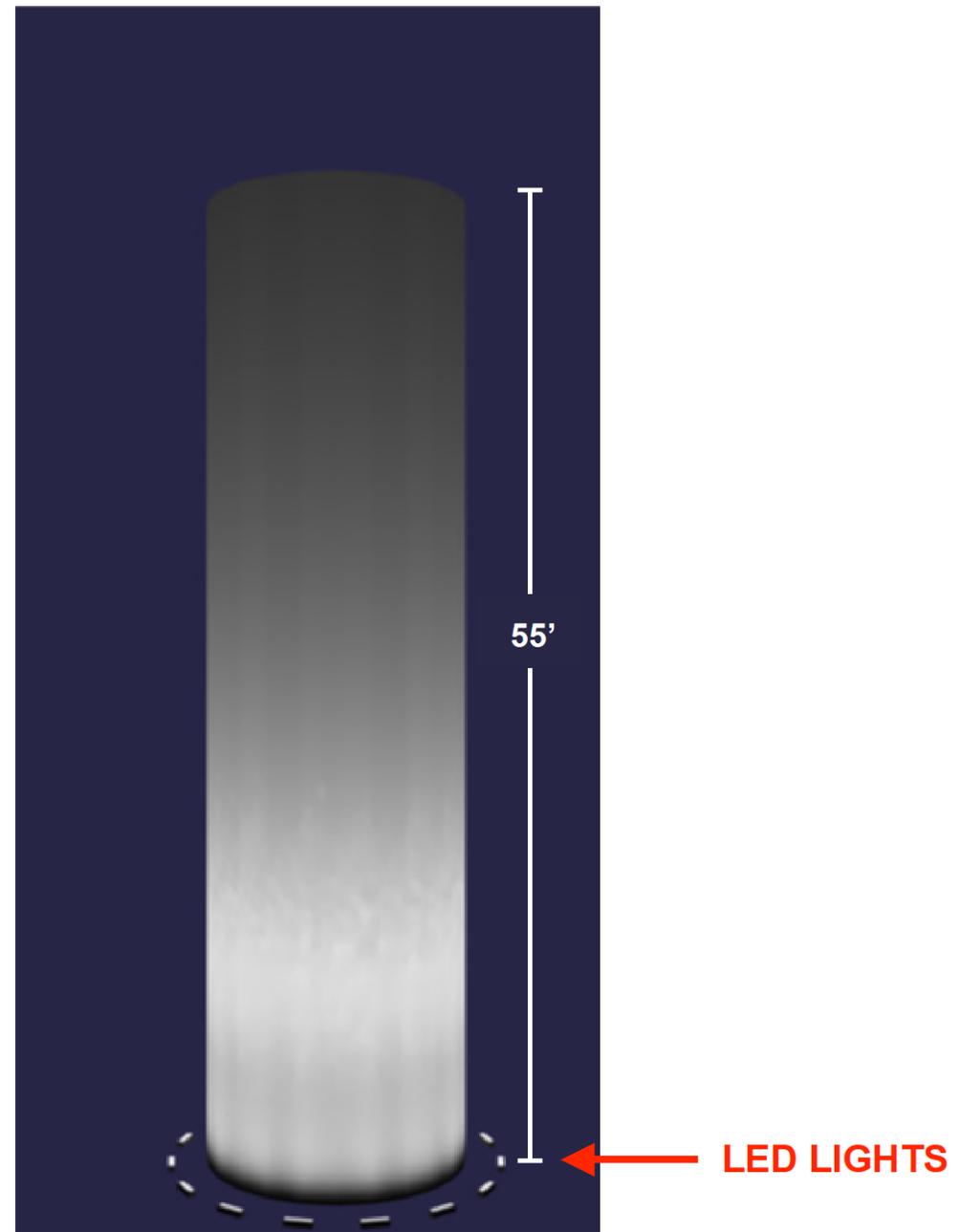
**SILOS**

# Asphalt Plant Photometrics for light intensity and placement of fixture studies



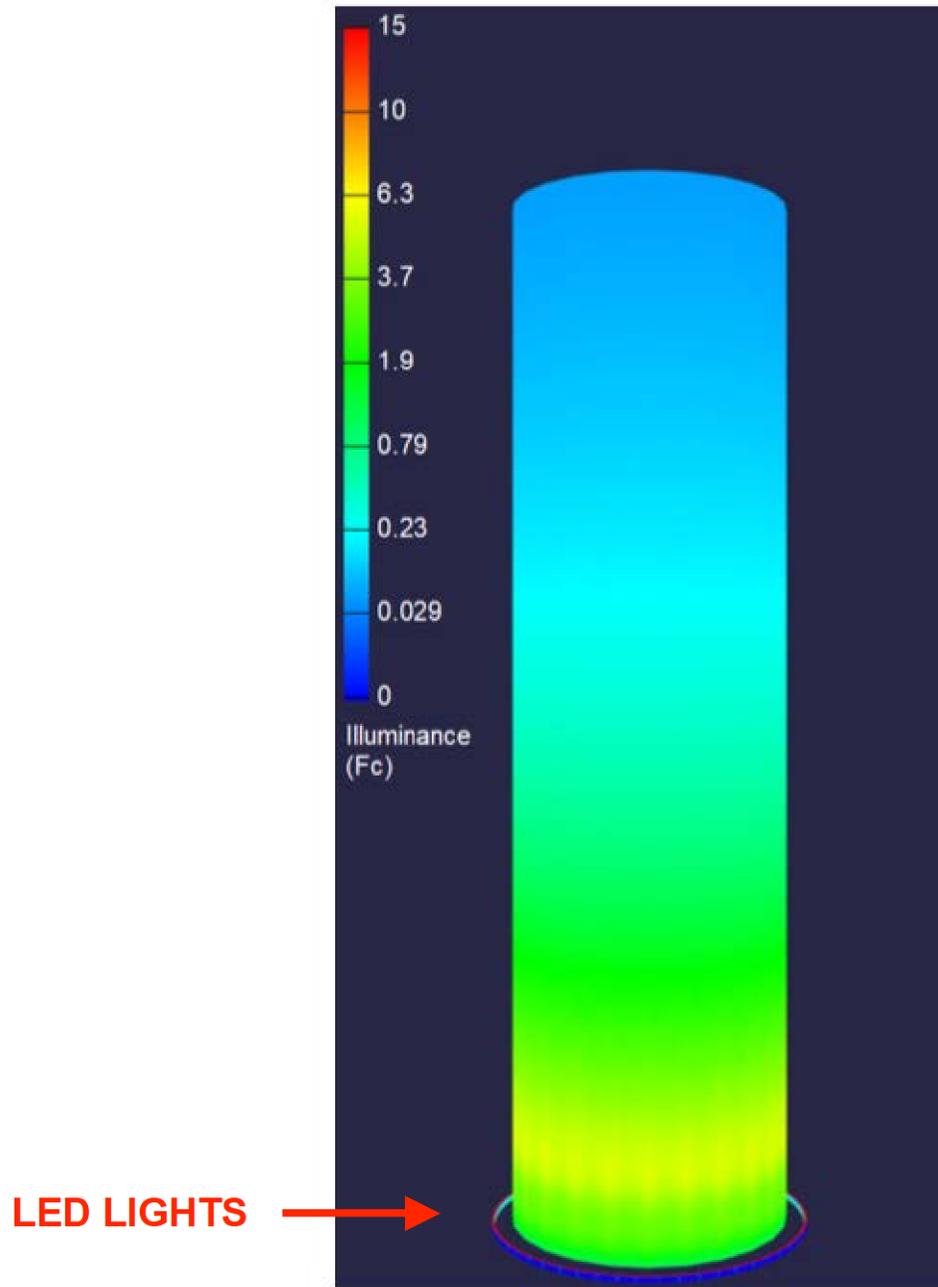
ReachElite High Output & ColorBlast

Notes:  
55' tall, 15' Ø column  
Fixtures offset ~2' from column



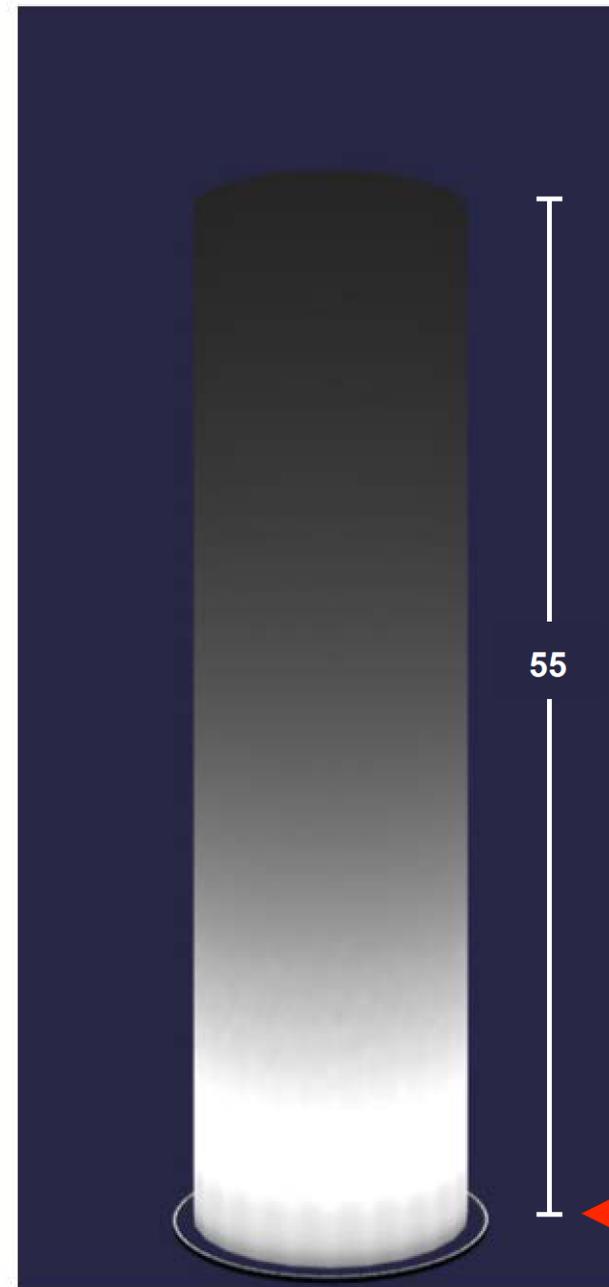
QTY	FIXTURE DESCRIPTION	BEAM ANGLE
10	ReachElite Powercore RGBA, HO, 100W	10°x40°
10	ColorBlast Powercore, RGBA	10°x40°

# Asphalt Plant Photometrics for light intensity and placement of fixture studies



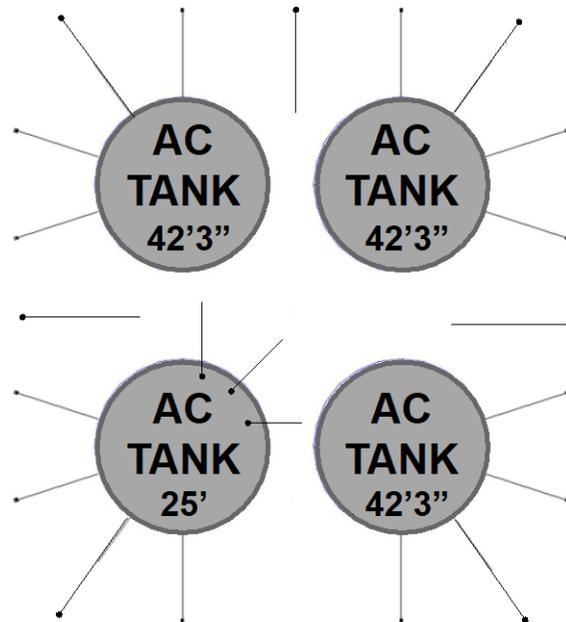
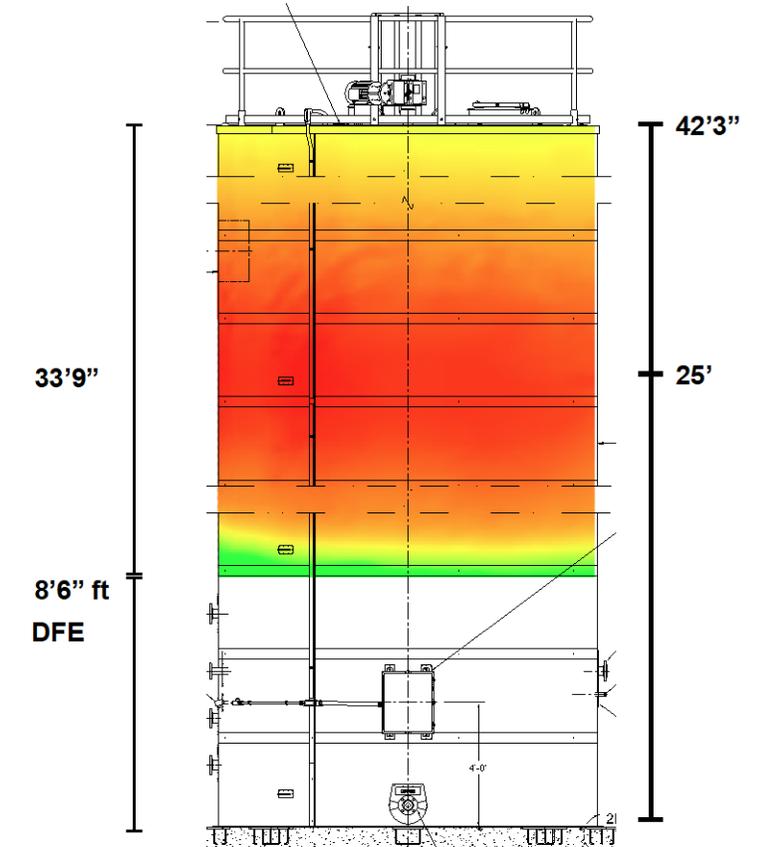
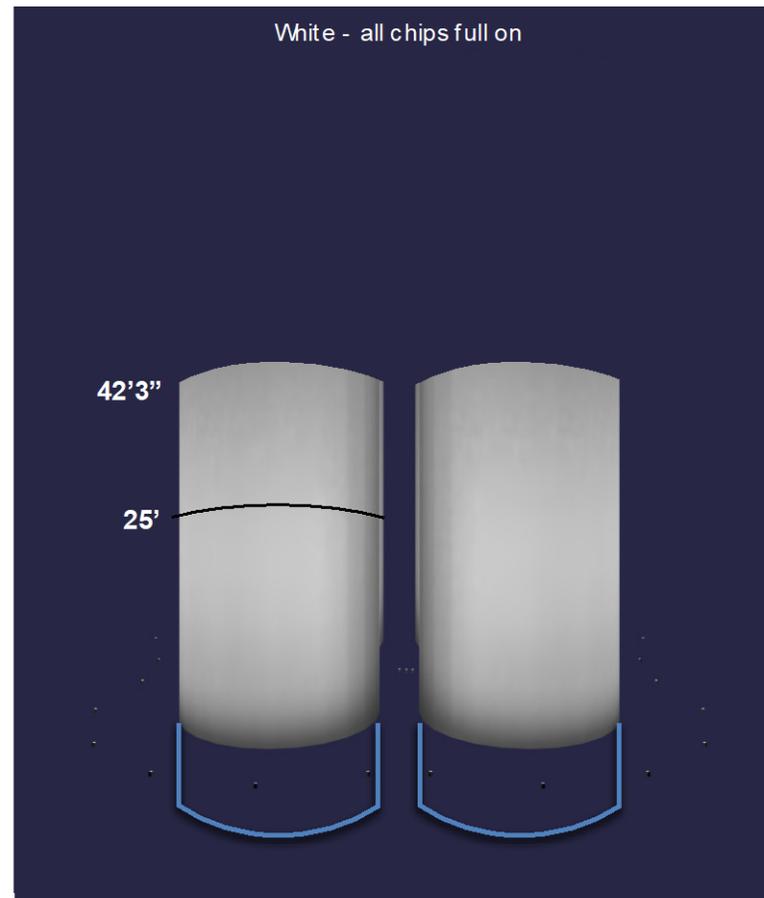
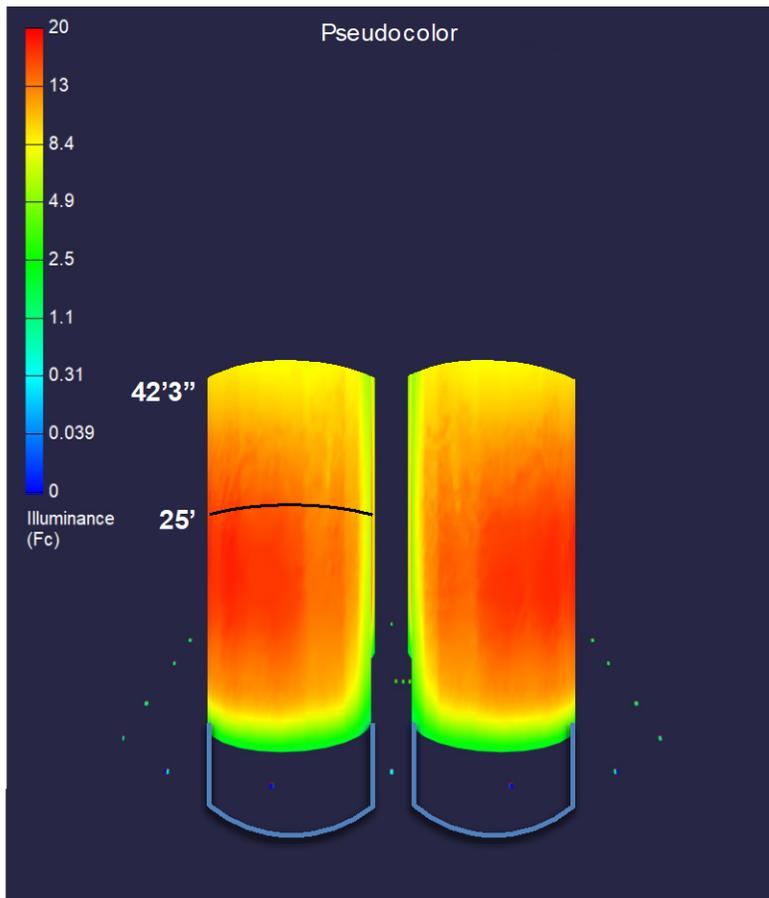
**ColorGraze MX4 Powercore**

Notes:  
 55' tall, 15' Ø column  
 Fixtures offset ~1' from column  
 IES files are 1' fixtures; actual installation to use 4' fixtures



QTY	FIXTURE DESCRIPTION	BEAM ANGLE
13	ColorGraze MX4 Powercore RGBA, 4'	10°x60°

# Asphalt Plant Photometrics light studies of ReachElite Powercore High Output fixture



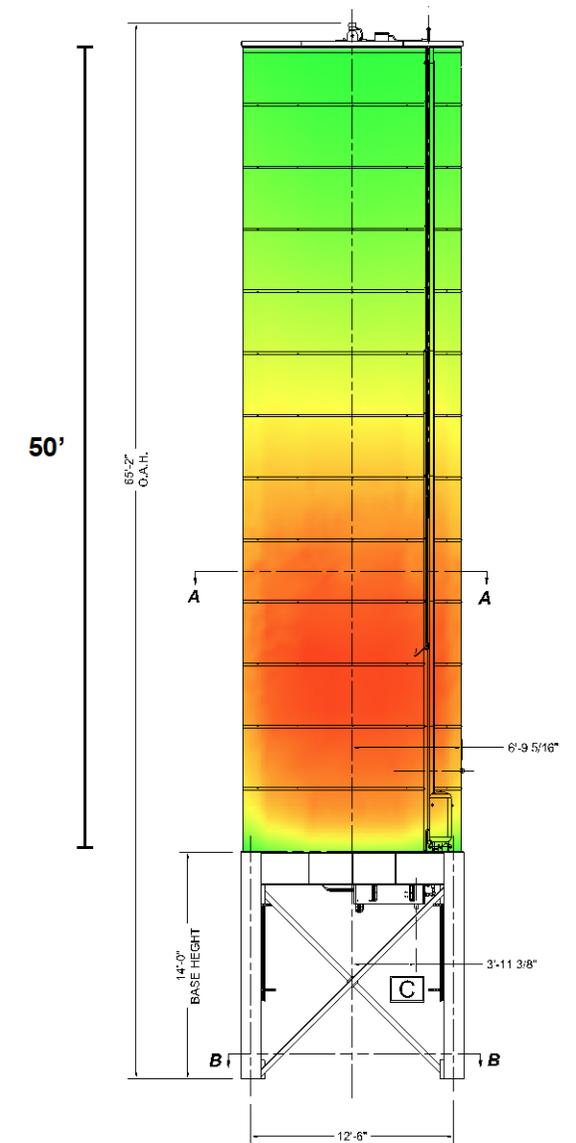
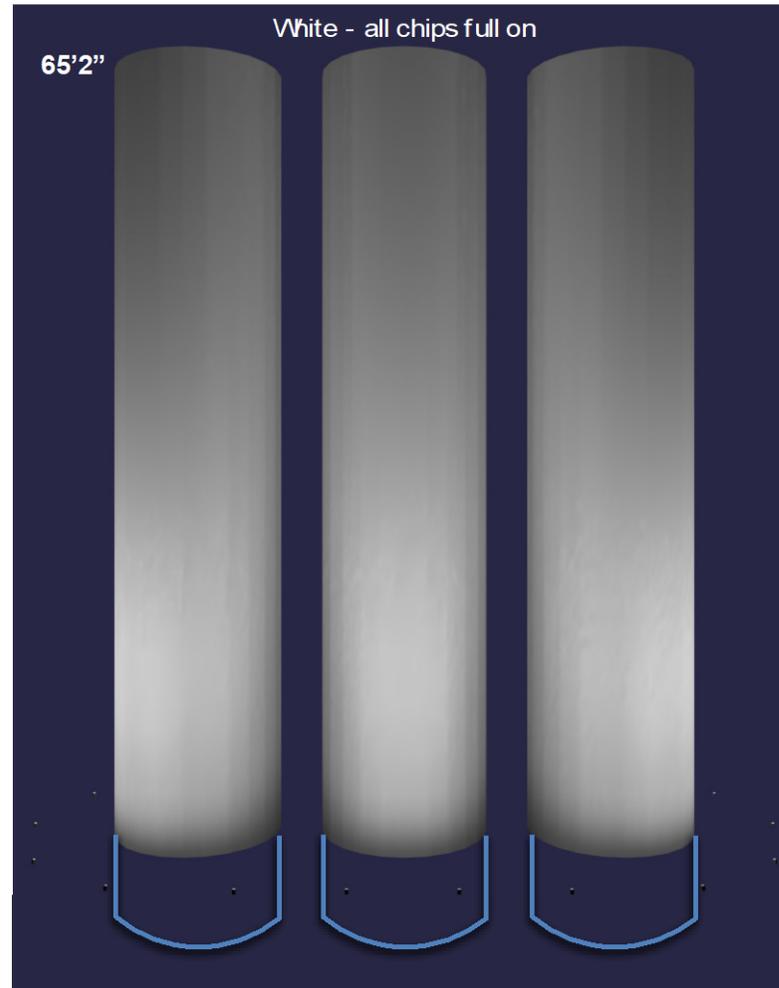
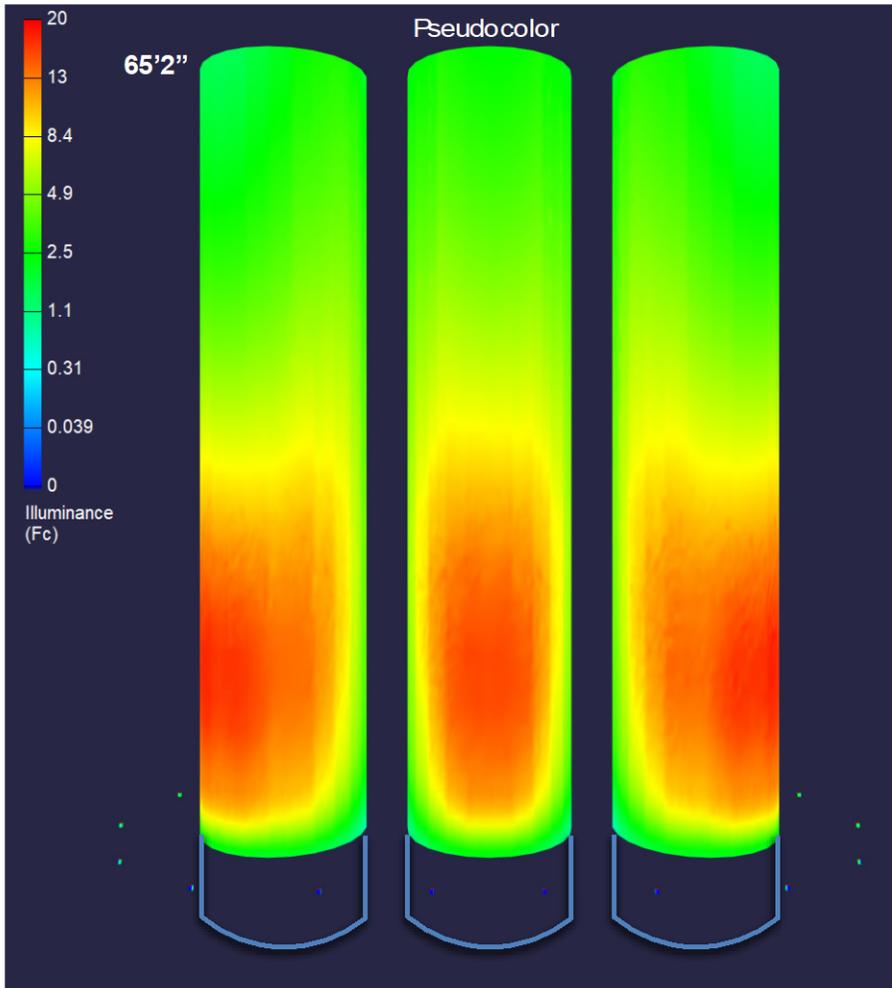
**Power Requirement:  
(4) 15Amp 208/277 Volts**

Notes:  
42'3" tall, 12' diameter AC Tank (33' 9" lightable due to 8' 6" DFE: Design Flood Elevation)  
100 watt fixtures offset ~ 6' from AC Tanks' perimeter  
(3) 100 watt fixtures on top of the 25' AC Tanks projecting the light towards the other (3) 42"3" AC Tanks

**Plan view LED fixture layout for the 4 AC Tanks**

QTY	FIXTURE DESCRIPTION	BEAM ANGLE
23	ReachElite Powercore, HO, 100W	Native (20°)

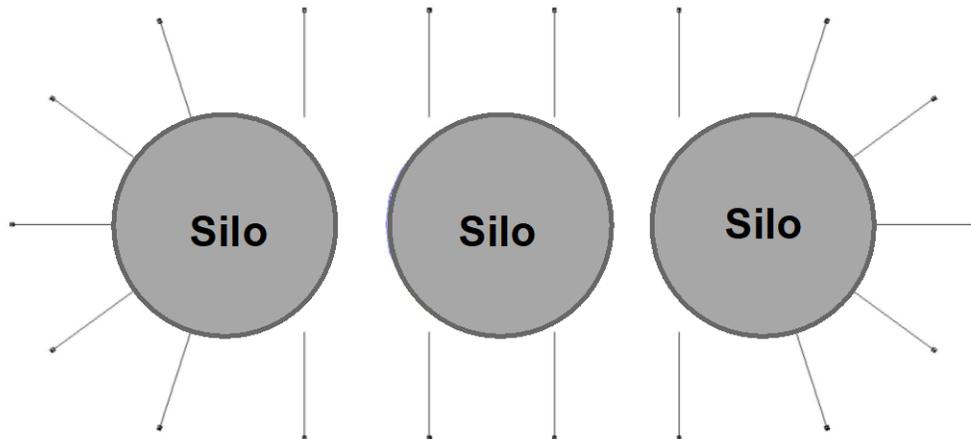
# Asphalt Plant Photometrics light studies of ReachElite Powercore High Output fixture



**Power Requirement:  
(4) 15Amp 208/277 Volts**

Notes:  
50' tall, 12' diameter silo  
100 watt fixtures offset ~ 6' from silos

← **Plan view LED fixture layout for the 3 Silos**



QTY	FIXTURE DESCRIPTION	BEAM ANGLE
18	ReachElite Powercore, HO, 100 W	Native (20°)

# LED LIGHTING EQUIPMENT



High Output RBGBW 100 watts flood lights



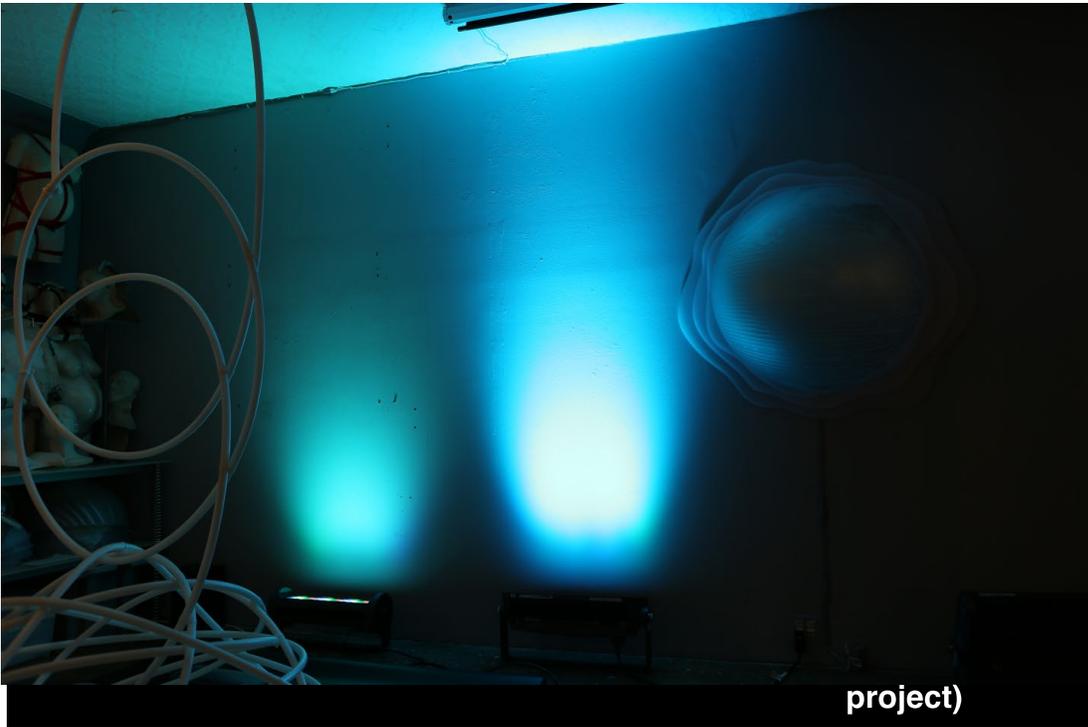
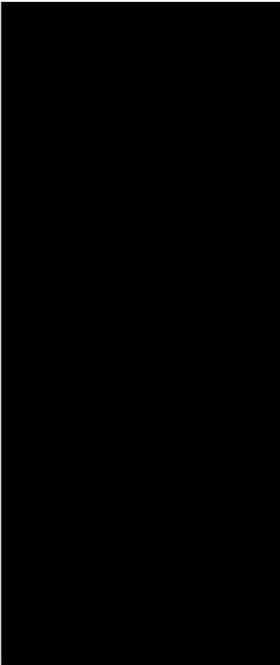
Data Enabler to address the lights



Light DMX Controller



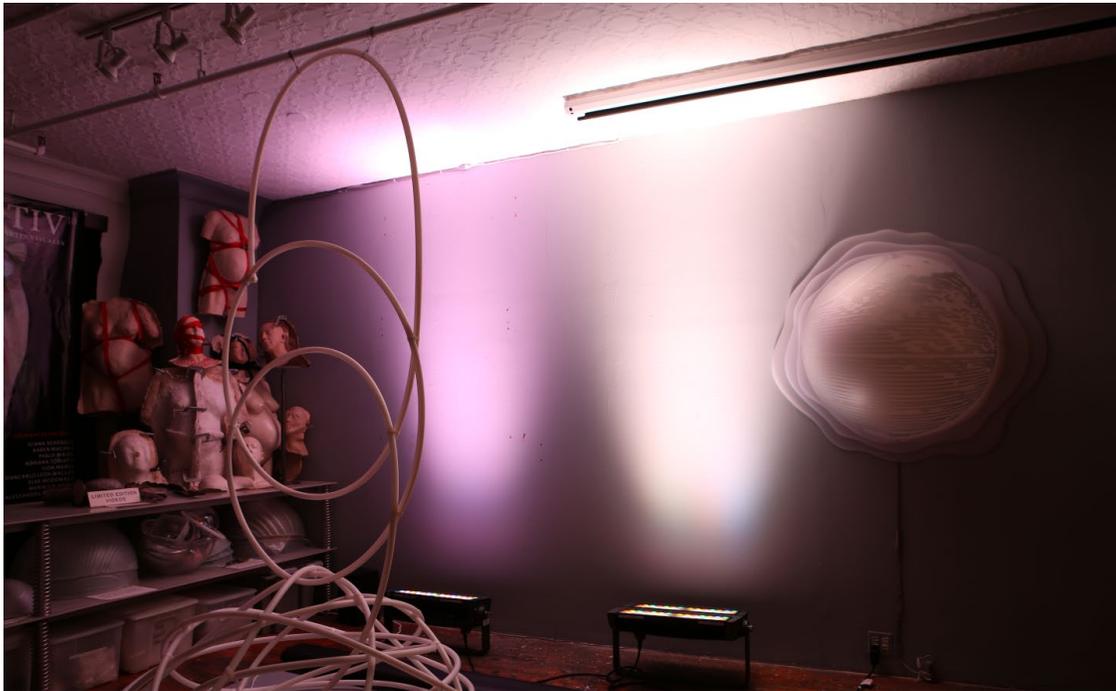
Leader Cables



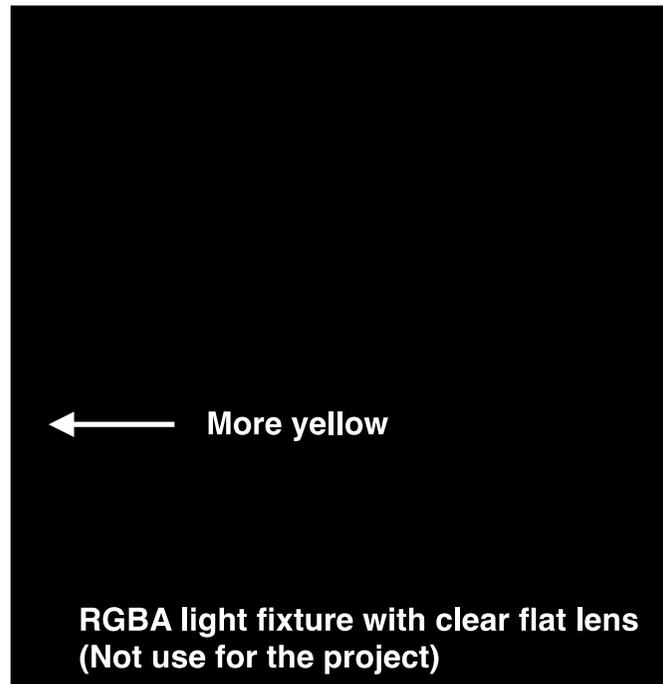
# LIGHT STUDIES IN THE STUDIO

Testing the light intensity difference between a point light fixture with a clear flat lens and a translucent lens.



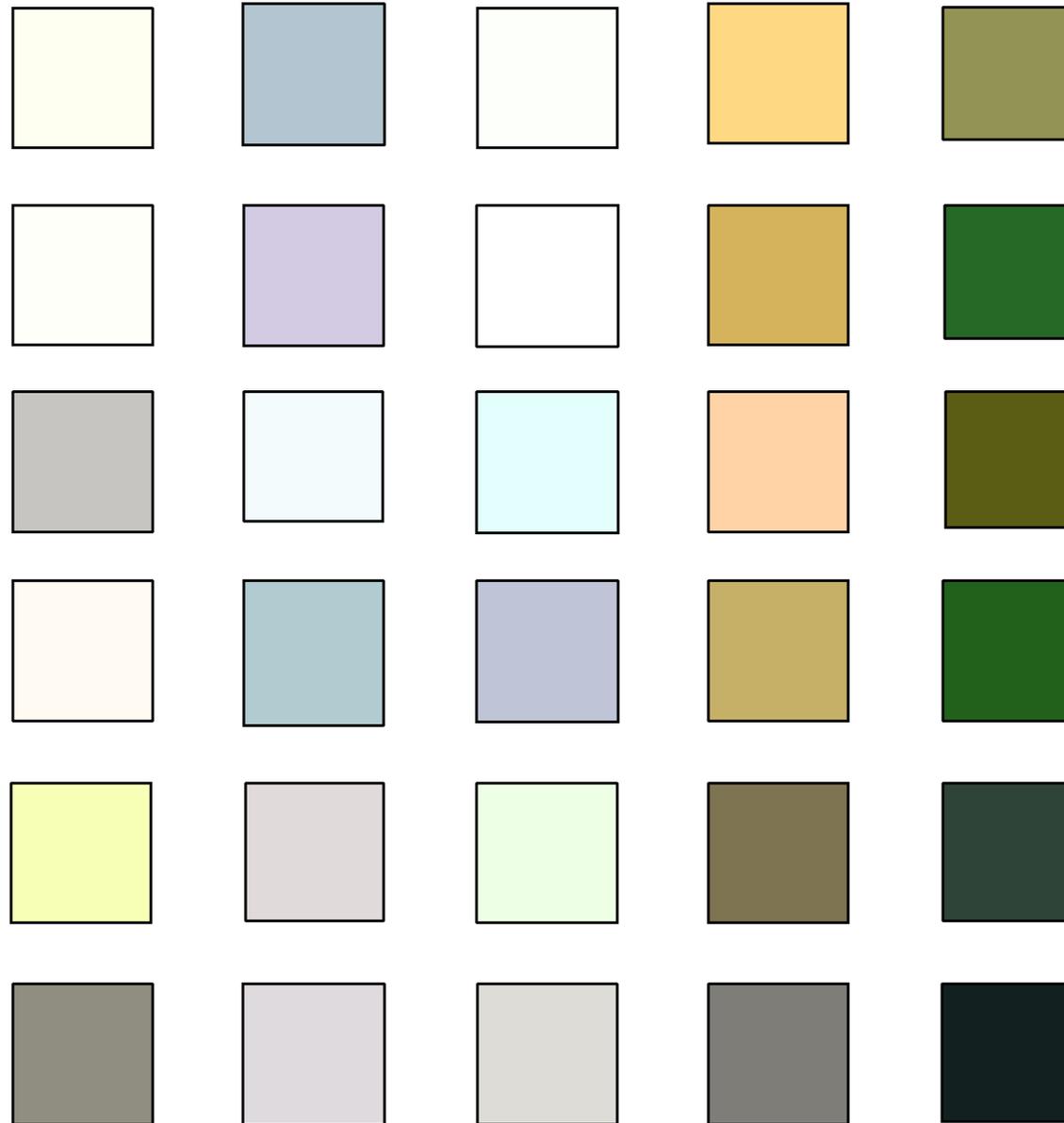


**Yellow orange**



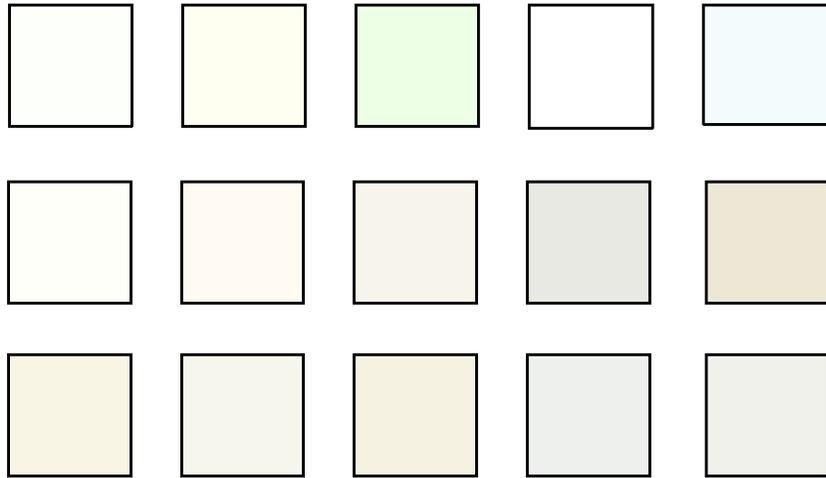
# LIGHT COLOR PALETTE: WHITES, GOLDS, AND TEALS

When roads are being built, the construction site has three primary colors, yellow for caution, white to represent the lines that guide trucks through the streets, and teals, similar to green, the color of moving forward and progression. The hues of lavender represent the city sunsets that make these sites vibrate when taking pictures to remember the magical moments.

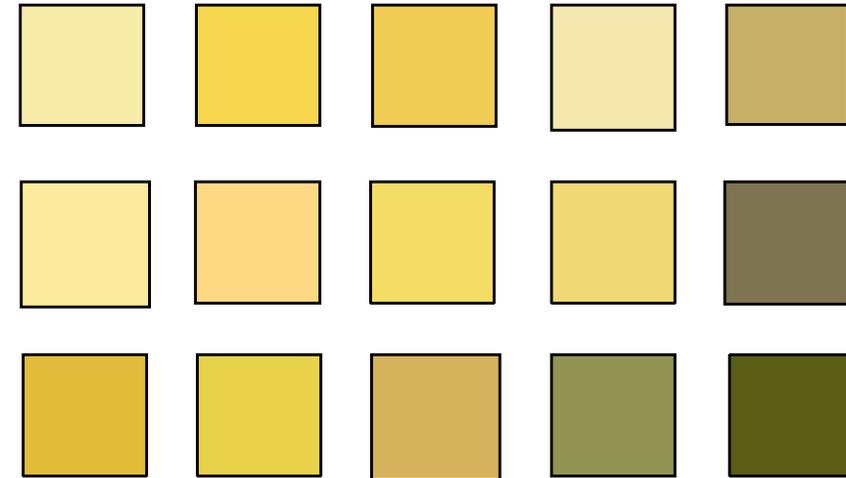


# LIGHT COLOR PALETTE

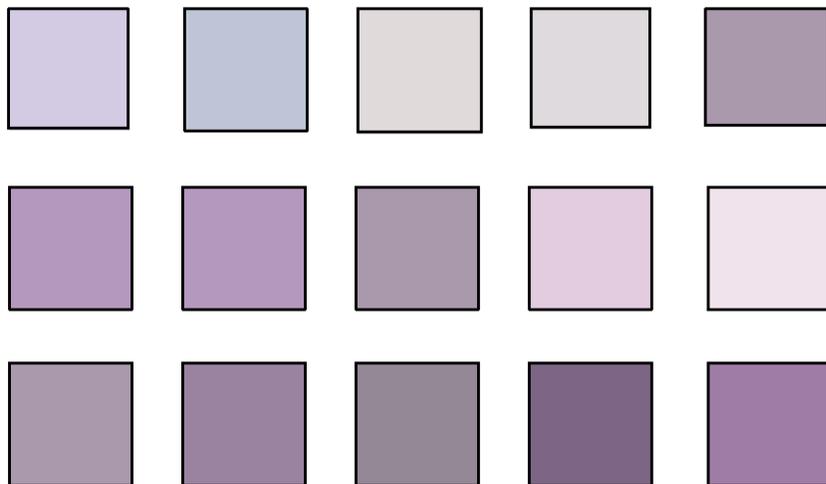
## WHITES



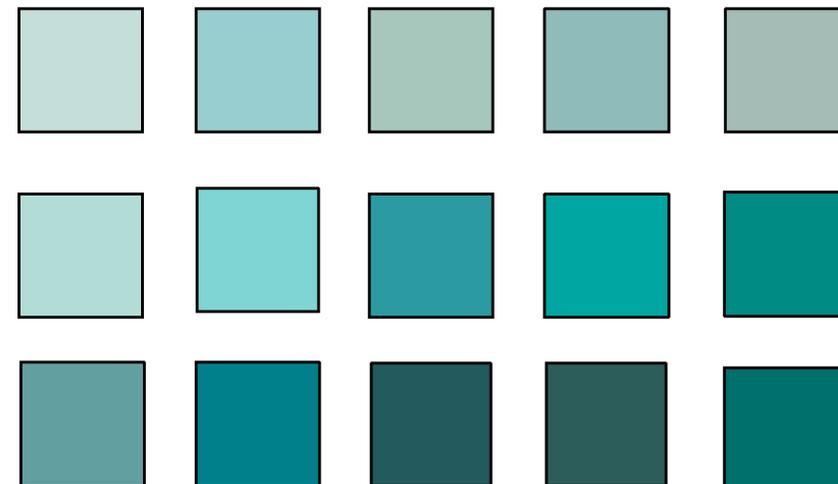
## GOLD



## LAVENDARS

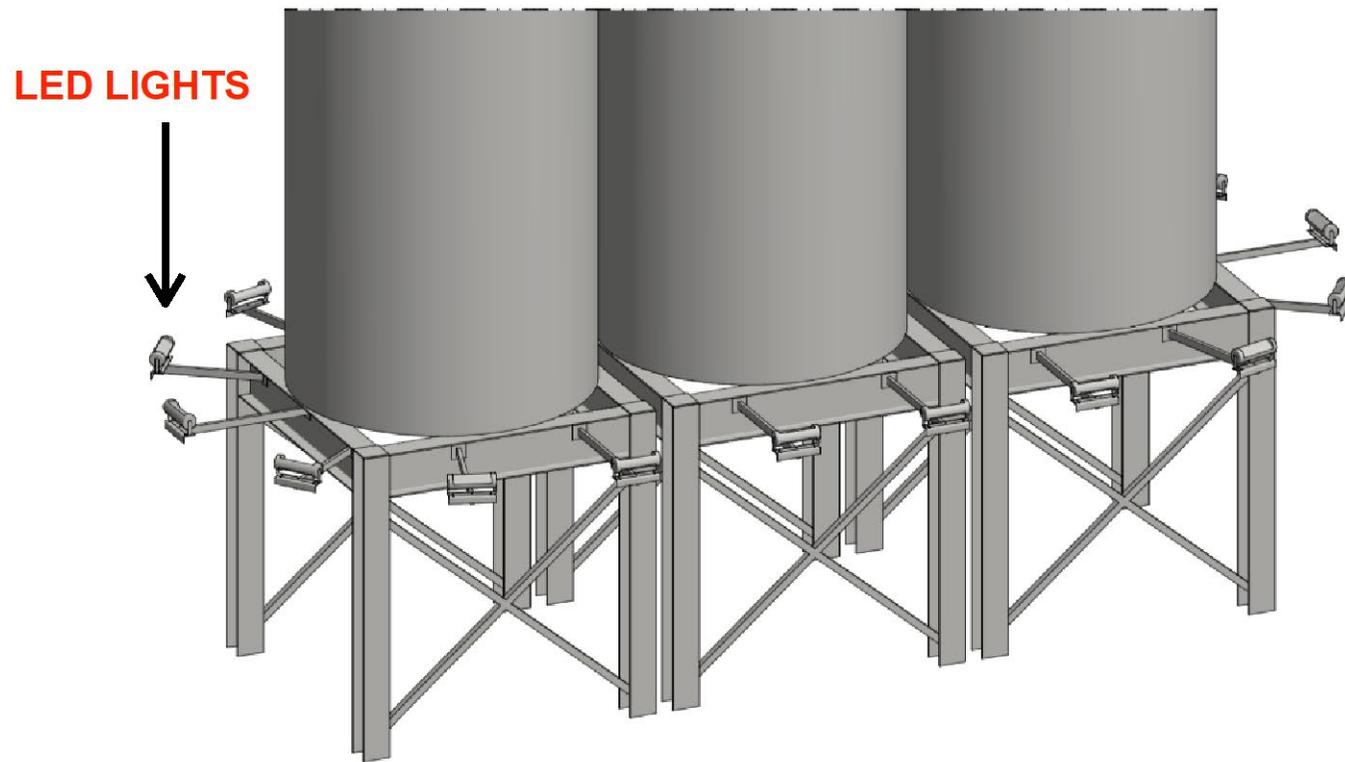


## TEALS





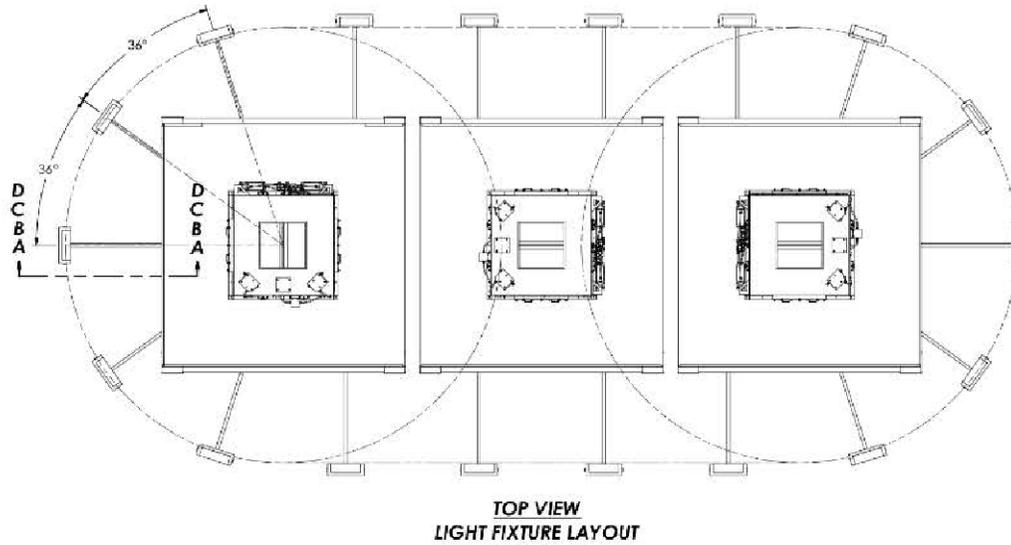
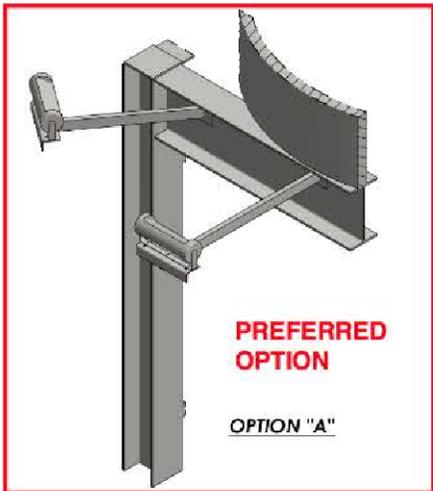
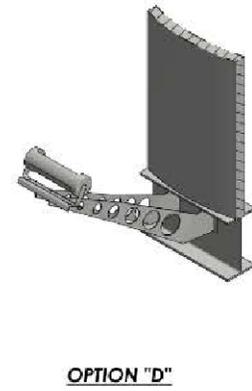
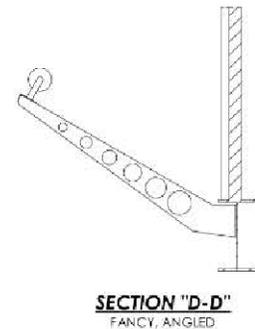
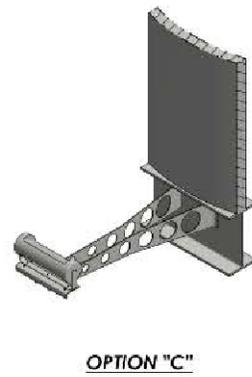
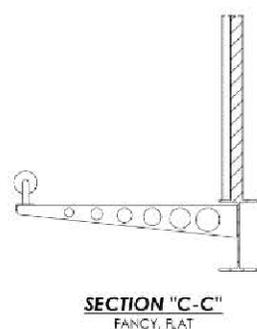
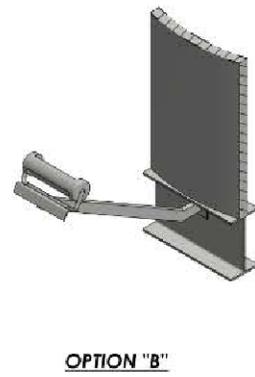
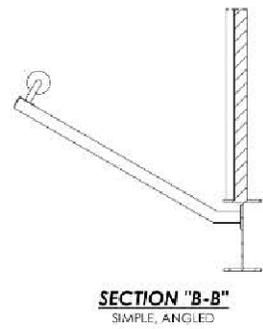
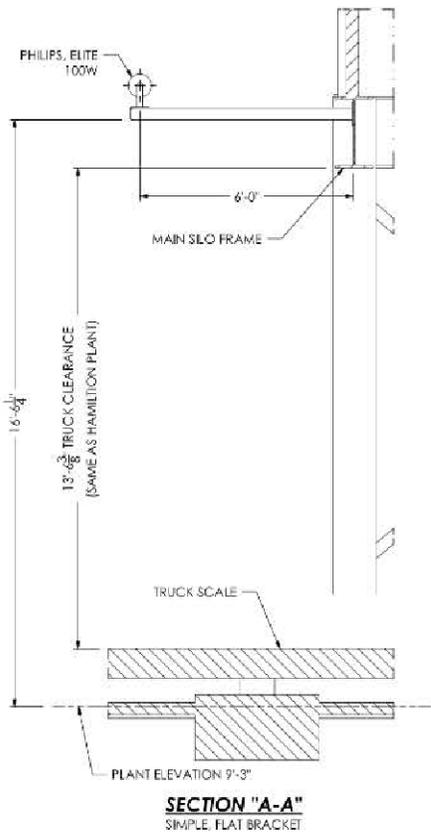
# SILOS



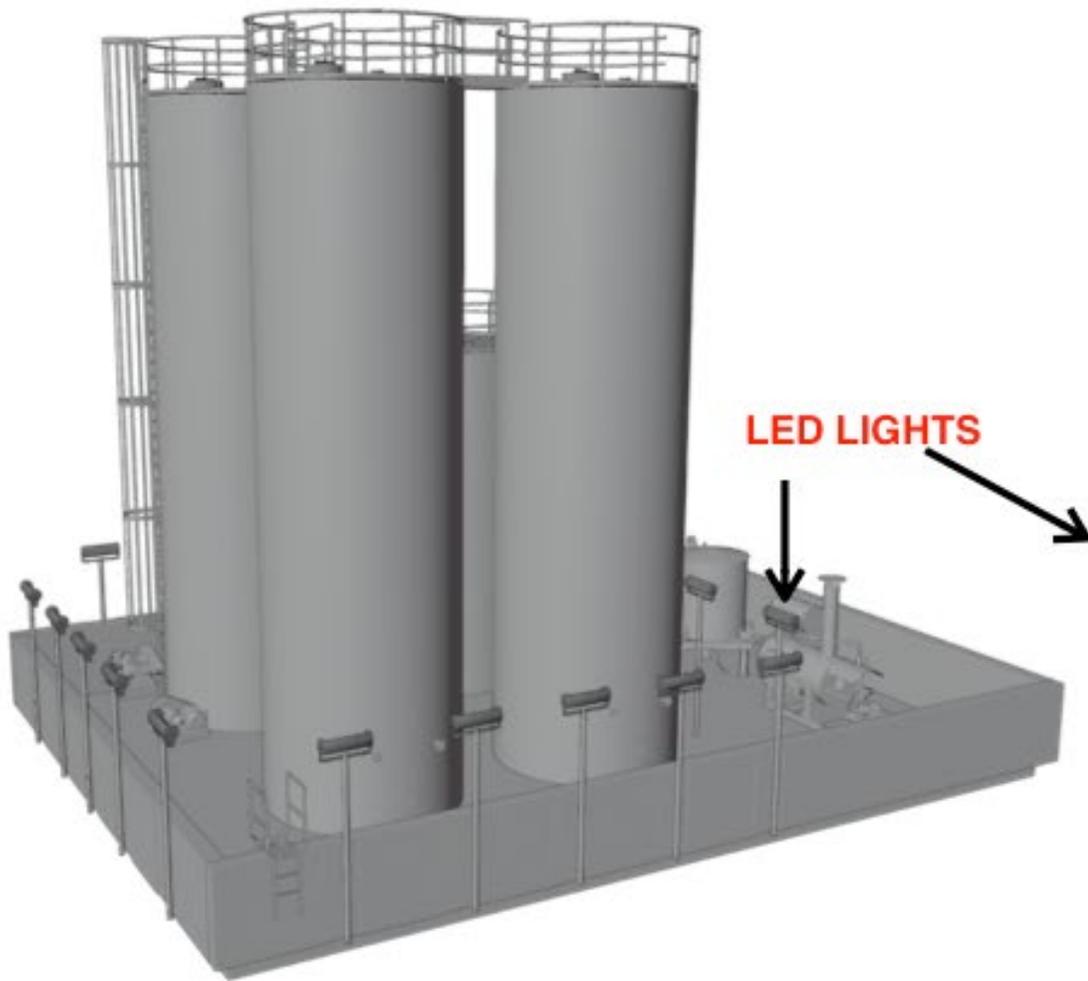
**LED light fixtures extends 6 ft from the Silos**



**Existing Silos for reference**



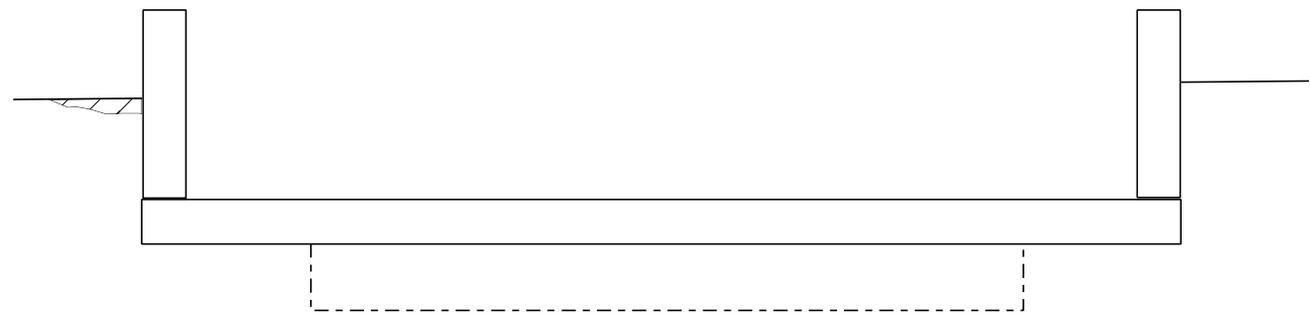
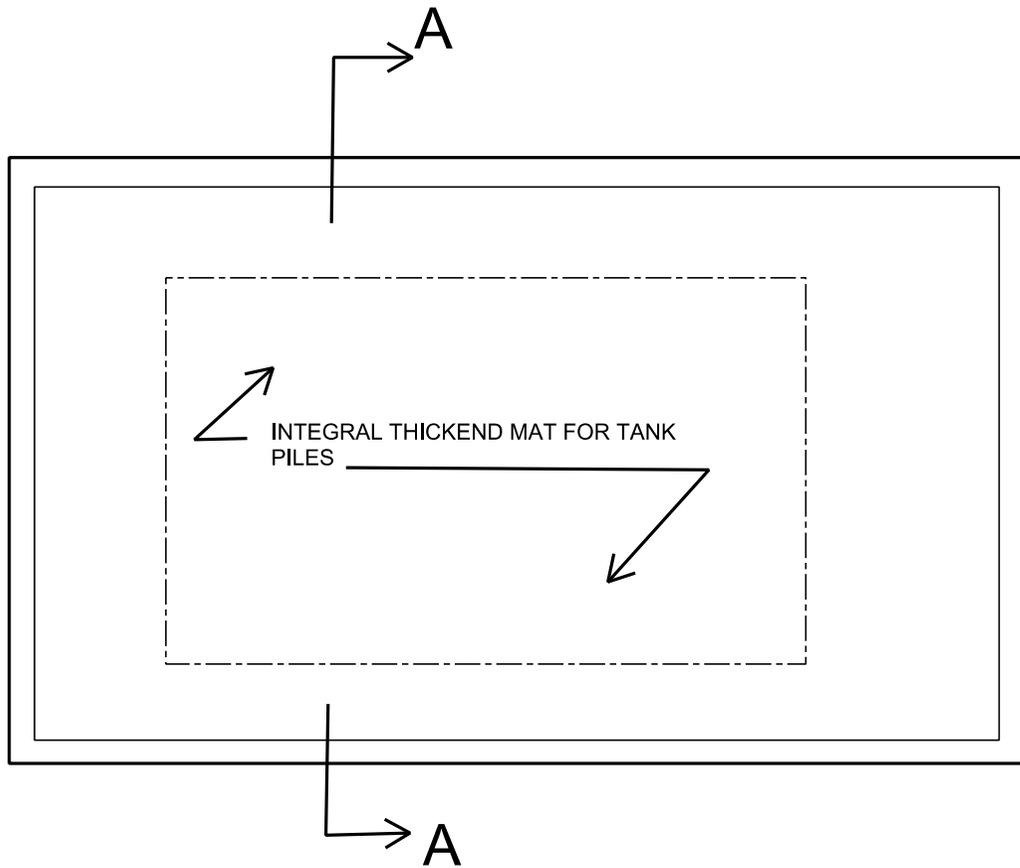
# AC TANKS



**Elevate LED lights with 6 ft clearance**

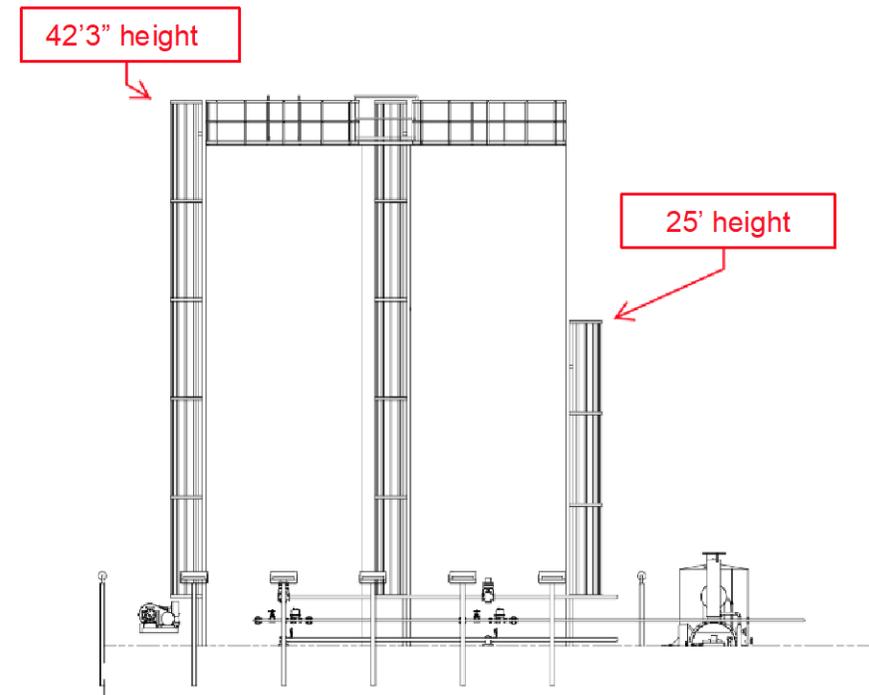
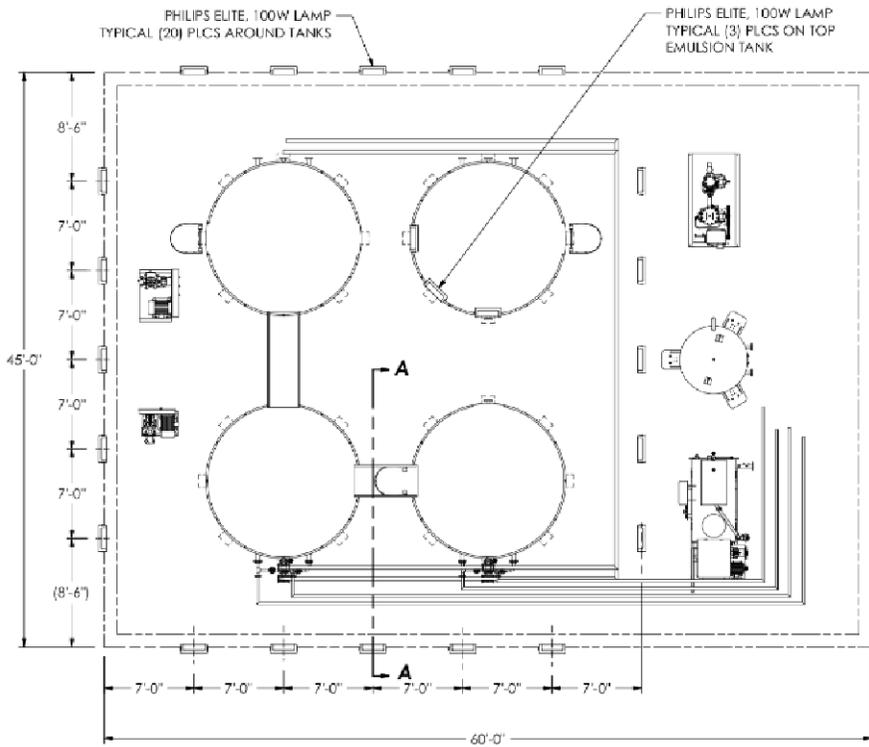


**Existing AC Tanks for reference**

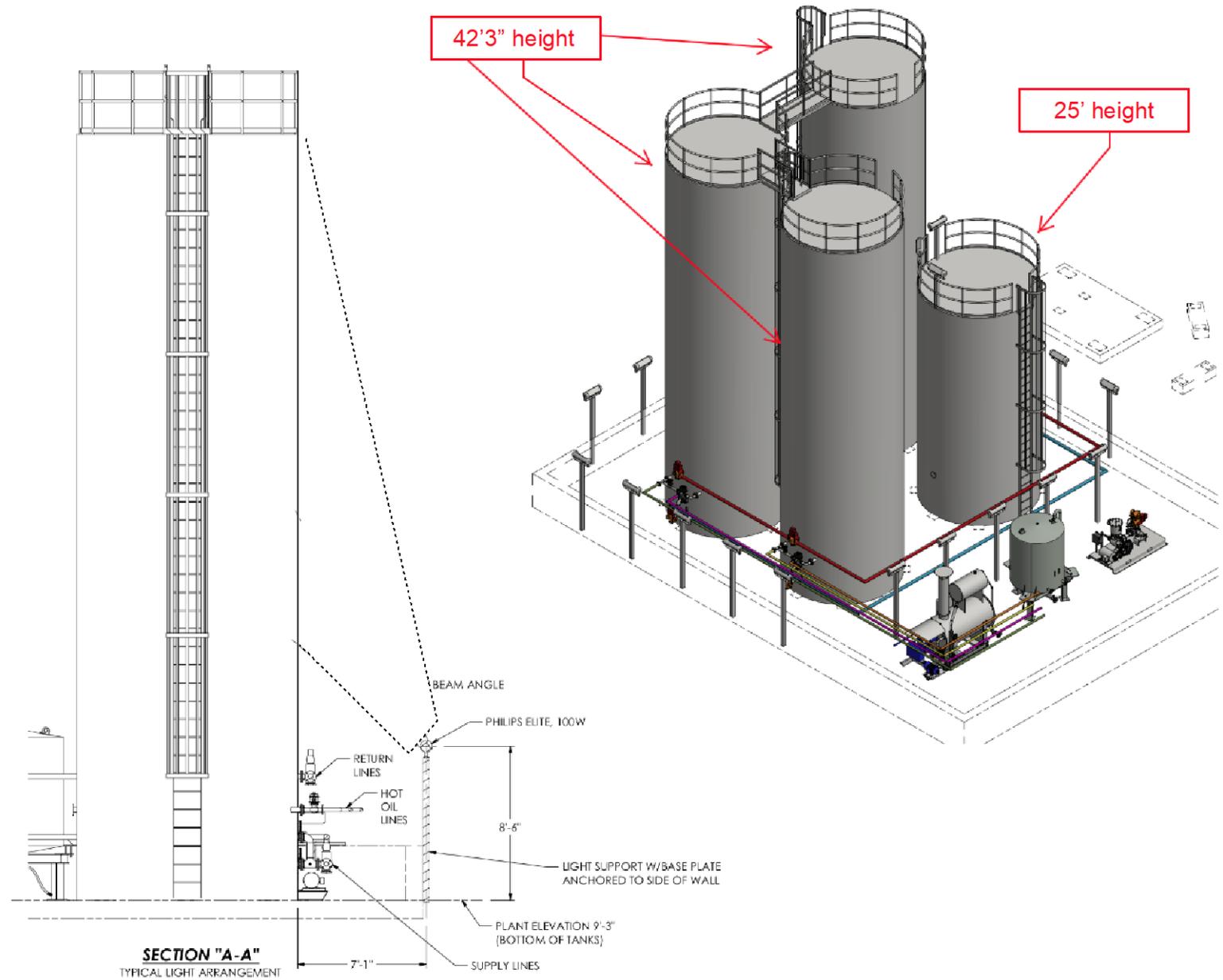


2. CONCRETE SHALL USE XYPEX INTEGRAL WATERPROOFING ent.
3. SEE CIVIL DESIGN FOR STORM WATER CONVEYANCE

## Concrete Containment for AC Tanks



## AC TANKS



# OPERATING REQUIREMENTS

## Hours of Operation

**The artwork hours of operation will be based on DOT's advised schedule.**

The suggested time recommend for the piece is from sunset to sunrise. It will operate about 12 hours per day to allow for the system to rest during off time, increasing its longevity. The lighting system can turn ON/OFF automatically from the set schedule and auto-adjust according to the daylight savings time.

Due to most of the light fixtures aiming upwards, the shadows of the AC Tanks and Silos will be less visible. However, shadows will be visible from the other light sources when the light fixtures are dim or when some are lit during the lighting sequence. When all are on, they will cancel out the shadows.

## Power Requirements

AC Tanks: (4) 15Amp 208/277 Volts

Silos: (4) 15Amp 208/277 Volts

## Wiring

Outdoor waterproof CAT5E or CAT6 cables to connect and daisy chain to each Data Enabler.

Outdoor rated 3 conductor with ground 14 AWG wire to power each Data Enabler.

Waterproof Junction box for each wire connection.

Piping will be required to conceal the wires from outdoor elements.

# MAINTENANCE

## Cleaning

There are a few known maintenance tasks that will need to be conducted on a regular (one per month) and as-needed basis. These are due to environmental factors and other conditions unique to this installation such as snow, dust, debris removal, and lens cleaning.

### *Cleaning Methods*

*Note: No chemical cleaners other than mild soap should be used.*

Clean with a soft rag. Do not use chemical cleaners, abrasive products or materials, highly acidic cleaners or cleaners with unknown chemicals. Dry with a non-abrasive cloth. Tough stains can be cleaned with mild cleaners like Windex and damp cloth, then the lens should be rinsed and dried.

## Cleaning Equipment

### **AC Tanks area**

A ladder will be sufficient as most of the light fixtures are 8'6" high. The three light fixtures on top of the 25 ft AC Tank are accessible using its side ladder from the containment unit.

### **Silos area**

A long ladder or an on-site boom lift will be required to access the light fixtures as they are 16'6" high.

## Troubleshooting

Always contact Grimanesa Amoros Studio first for the technical issues below with the lighting system.

### **Single light fixture not discovered:**

Check the connections to the fixture, and replace the fixture if needed.

### **Large group of light fixtures not discovered:**

Verify the network switch has power. If the diagnosis lights still doesn't show up, replace the network switch or power supply as required.

### **Entire system not discovered:**

Replace the network switch.

### **Controller not discovered:**

Check the controller to see if it's powered and connected to the network. Repair any issues found. Replace the controller if needed.











# VIDEO RENDERING

