

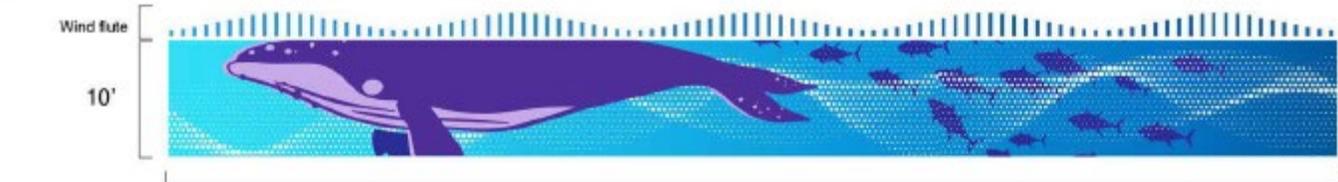
**AEOLEAN WIND FLUTE INSTALLATION**

Aeolian wind flute is an installation of tubes with vertical slits cut into the tubes to allow the wind to whistle through them. The whistling sound that the flutes make is an additional interactive installation feature that allows us to experience the immersive "Sound of Redondo" mural with sound and color. The flute pipes are arranged in a wave formation to extend and accentuate the design of the mural.

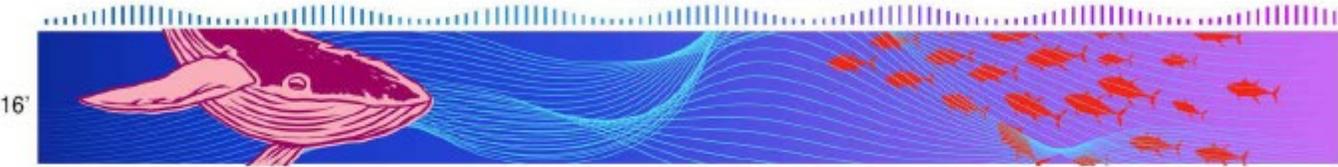


**MURAL INSTALLATION**

This design is inspired by Redondo Beach and the waves of the ocean. This design is a visual representation of ocean waves depicted by sound waves patterns. The whales and the school of fish that are swimming through the waves are a reminder for us to be mindful of the diverse marine life of Redondo Beach.



N GERTRUDA AVE (NE facing) 100'



N CATALINA AVE (NW facing) 135'



N CATALINA AVE (NW facing)



N GERTRUDA AVE (NE facing)

**AEOLIAN WIND FLUTE INSTALLATION**

Aeolian wind flute is an installation of tubes with vertical slits cut into the tubes to allow the wind to whistle through them. The whistling sound that the flutes make is an additional interactive installation feature that allows us to experience the immersive "Sound of Redondo" mural with sound and color. The flute pipes are arranged in a wave formation to extend and accentuate the design of the mural.



**MURAL INSTALLATION**

This design is inspired by Redondo Beach and the waves of the ocean. This design is a visual representation of ocean waves depicted by sound waves patterns. The surfer and the dolphins swimming through the waves are a reminder for us to be mindful of the diverse marine life of Redondo Beach.



N CATALINA AVE (NW facing)



N GERTRUDA AVE (NE facing)

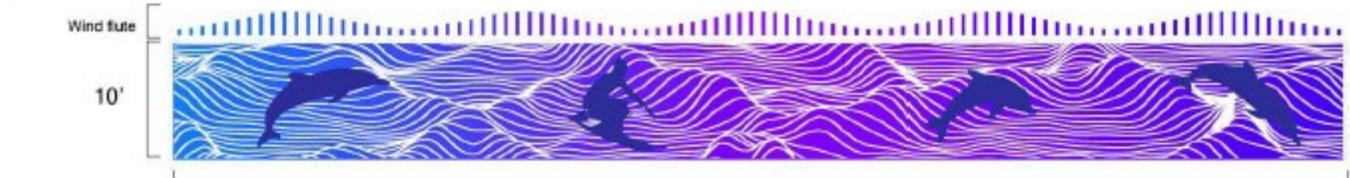
**AEOLEAN WIND FLUTE INSTALLATION**

Aeolian wind flute is an installation of tubes with vertical slits cut into the tubes to allow the wind to whistle through them. The whistling sound that the flutes make is an additional interactive installation feature that allows us to experience the immersive "Sound of Redondo" mural with sound and color. The flute pipes are arranged in a wave formation to extend and accentuate the design of the mural.



**MURAL INSTALLATION**

This design is inspired by Redondo Beach and the waves of the ocean. This design is a visual representation of ocean waves depicted by sound wave patterns. The surfer and the dolphins swimming through the waves are a reminder for us to be mindful of the diverse marine life of Redondo Beach.



N GERTRUDA AVE (NE facing) 100'



N CATALINA AVE (NW facing) 135'



N CATALINA AVE (NW facing)



N GERTRUDA AVE (NE facing)

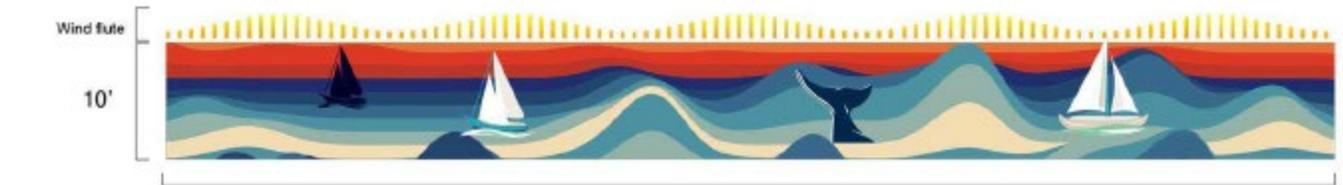
**AEOLEAN WIND FLUTE INSTALLATION**

Aeolian wind flute is an installation of tubes with vertical slits cut into the tubes to allow the wind to whistle through them. The whistling sound that the flutes make is an additional interactive installation feature that allows us to experience the immersive "Sound of Redondo" mural with sound and color. The flute pipes are arranged in a wave formation to extend and accentuate the design of the mural.



**MURAL INSTALLATION**

This design is inspired by Redondo Beach and the waves of the ocean. This design is a visual representation of ocean waves depicted by sound waves patterns. There are sail boats, the iconic yellow looking glass boat, and whales diving into the sea are nods to the classic Redondo Beach scenery.



N GERTRUDA AVE (NE facing) 100'



N CATALINA AVE (NW facing) 135'



N CATALINA AVE (NW facing)



N GERTRUDA AVE (NE facing)

## DESCRIPTION OF MATERIAL & INSTALLATION PROCESS

### ***MURAL ART INTALLATION***

#### ***PHASE 1: WALL PREPARATION (work time 3-4 days)***

- a. Apply wall cleaning solution (Klean-Wall Wall Cleaning Product) with pump spray.
- b. Powerwash the surface of the wall with a power washer.  
Dewalt DXSP190681B 20V MAX Backpack Sprayer.
- c. Let the wall dry for 1 day.
- d. Mask off any sections that can not have paint on it.
- e. Primer the surface of the wall with BEHR® BONDING PRIMER.

#### ***PHASE 2: PAINTING THE MURAL (work time 11-12 days)***

- f. Put tarp down on the ground.
- g. Paint background colors with Behr Ultra Exterior outdoor paint (custom colors),  
with Spray gun Graco 20B473 Ultra QuickShot & Roller.
- h. Project design with a projection and trace design onto the wall.
- i. Mask and/or create stencils of designs.
- j. Paint designs with Montana gold Aerosol paint.

#### ***PHASE 3: PROTECTIVE COATING (work time 4-5 days)***

- k. Apply 4G surface guard . Let the wall dry for 1 day.
- l. Apply 2 coats of UV COAT : MuralShield. Let the wall dry for 1 day.
- m. Apply 2 coats of GRAFFITI COAT. Let the wall dry for 1 day.

Mural installation complete.

## ***AEOLEAN WIND FLUTE INSTALLATION (ADDITIONAL OPTION)***

### ***PHASE 1: PREP MATERIALS***

- a. Gather materials :
  - 4" Wide wind pipe : 24" tall PVC Pipes x 235
  - 2 in. x 6 in. x 8 ft. Pressure-Treated Lumber
  - Montana Spray Paint \$10 x 150
  - WaterGuard 1 gal. or Wood Stain and Sealer
  - Epoxy Resin 10 gallon
  - PC-Concrete 600 ml Concrete Bonding Agent \$65 x100
  - router
  - chop saw
- b. Chop PVC pipes into various incremental sizes ranging from 6" to 24".
- c. Router 4" Slit into the PVC pipes.

### ***PHASE 2: BUILDING THE PIPE BASE***

- d. Drill pipe slots into the pressure treated wood 8" apart in between pipes.
- e. Drill drain hole in the center of each slot.
- f. Stain/seal , and paint the treated wood base.
- g. Resin coat the treated wood base.
- h. Glue and insert PVC pipes into the wood base in each slot.

### ***PHASE 3: INSTALLATION***

- i. Install the PVC Pipe Wind Flute with wood base , on the top ledge of the wall with PC-Concrete 600 ml Concrete Bonding Agent.
- j. Bolt the base into the top of concrete wall for reinforcement.
- k. Paint the PVC Wind Flute with Montana Gold aerosol paint.
- l. Apply UV Coat, and Anti Graffiti coat.

## **ART INSTALLATION MAINTENANCE PLAN**

### **Mural maintenance:**

- 1. Check on the mural every 6 months for graffiti vandalism.**
- 2. If there is any graffiti ,first attempt will be to buff it with graffiti cleaning supply.**
- 3. If the graffiti does can not be fully erased, then the valdalized area will be retouched with paint. UV coat and Anti- graffiti coat will be added on top.**

### **Aeolian Wind Flute maintenance:**

- 1. Check on the wind flute installation every 6 months for valdalism, general damage, wear and tear, and water damage.**
- 2. If the PVC pipes are damages, then the individual damages pipes will be replaced.**
- 3. If the wood base is damaged, then the wood base will be removed and replaced.**
- 4. The replaced wind flutes will be repainted, UV coated, and Anti- graffiti coated.**

# BUDGET SHEET

## **MURAL ART INTALLATION**

### **PAINT & SUPPLIES**

BEHR® BONDING PRIMER \$60/ gallon x 12	\$720
Behr Ultra Exterior outdoor paint \$250/ 5gallon x 14 :	\$3,500
Montana gold Aerosol paint \$10 x500 Cans:	\$5,000
UV COAT : MuralShield \$500/ 5gallon . 20gallons :	\$2,000
GRAFFITI COAT: \$340/5 gallon 20gallons:	\$1,360
4G surface guard: \$595/5 gallon .20Gallons :	\$2,380
2 Gallon sprayer: x 2 :	\$260
Dewalt DXSP190681B 20V MAX Backpack Sprayer	\$250
Power washer :	\$500
Klean-Wall Wall Cleaning Product - 5 Gallon \$80 x4	\$320
masking tape	\$750
vynil stencils	\$1,000
tarp 135 ft.	\$400
Spray gun Graco 20B473 Ultra QuickShot	\$1,400
Gas + misc.	\$660
sub total :	\$20,500

**CGL INSURANCE :** \$1,000

### **LABOR**

20 days /8 hours /day x 4 people :	
640hrs x \$50 / hour	
Maintenance plan: graffiti buffing / touch-up	\$5,000
\$1,000/ year : 5 year warranty	
sub total:	\$32,000
<b>TOAL: \$58,500</b>	

## **AEOLEAN WIND FLUTE INSTALLATION (ADDITIONAL OPTION)**

### **SUPPLIES**

4" Wide wind pipe : 24" tall PVC Pipes	
8" spacing 235 PVC \$16	\$3,760
2 in. x 6 in. x 8 ft. Pressure-Treated Lumber	\$500
Montana Spray Paint \$10 x 150	\$1,500
WaterGuard 1 gal. or Wood Stain and Sealer \$30 x10	\$300
Epoxy Resin 10 gallon \$760 x 3	\$2,280
Gorilla Heavy Duty construction adhesive \$12 x150	\$1,800
router	\$200
chop saw	\$300
Bolts / washers	\$200
Misc. cost	\$260
sub total:	\$11,100

### **LABOR**

10 days /8 hours /day x 2 people :	
160hrs x \$50 / hour	\$8,000
Maintenance plan: bi-annual check up / repair	
\$1,000 / year : 5 year warranty	\$5,000
<b>TOTAL: \$24,100</b>	