



# COLOR SKINZ™ ARCH INSTALLATION MANUAL

Part # ARCHCSSQV[.....]

ARCHCSSQK[.....]

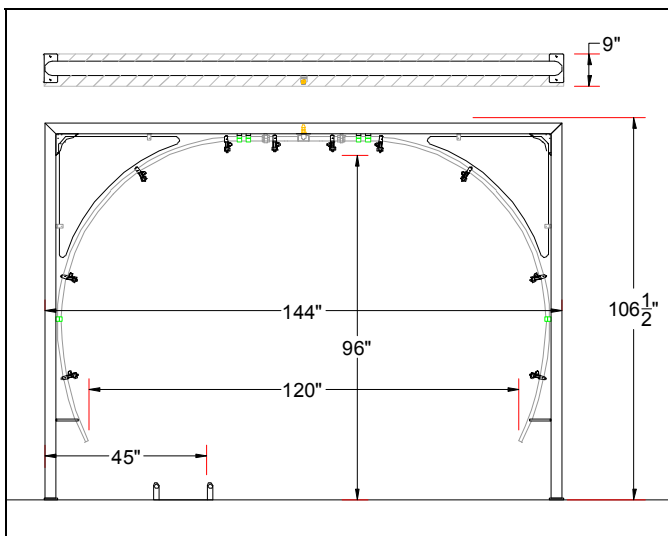
(ALL COLORS)

## Equipment Features

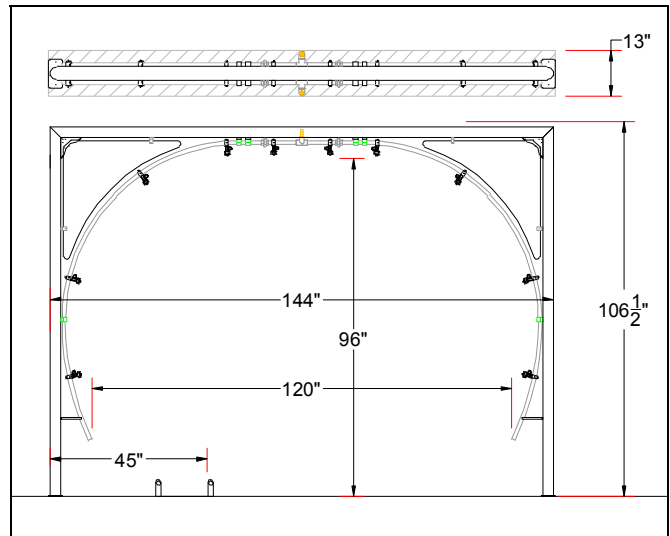
- Aluminum Structure Color Skinz™ Snap On Structure Wrap
- Appealing Round Arch Manifold
- Quick Disconnect Nozzles
- Different Configuration Available: Single, Double and Triple Manifolds
- Available with “V” jet and Foaming Nozzle
- Optional “L.E.D.” Light Kit Available

## Equipment Specifications

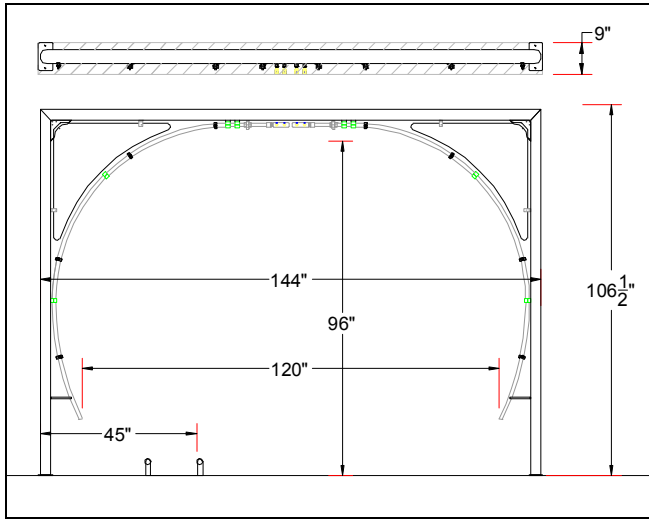
	K NOZZLE ARCH ARCHCSSQK[.....]	V NOZZLE ARCH ARCHCSSQV[.....]
TUNNEL LENGTH	9”-15”	9”-15”
TUNNEL WIDTH	144”	144”
UNIT HEIGHT	106-1/2”	106-1/2”
VEHICLE CLEARANCE	96”	96”
ELECTRICAL	N/A	N/A
PNEUMATICS	2 SCFM	N/A
	(2) 3/8”OD AIR LINE PUSH-IN FITTING	
WATER	5 GPM (max)	5-15 GPM (max)
	(2) 3/8”OD AIR LINE PUSH-IN FITTING	3/4” HOSE BARBED FITTING



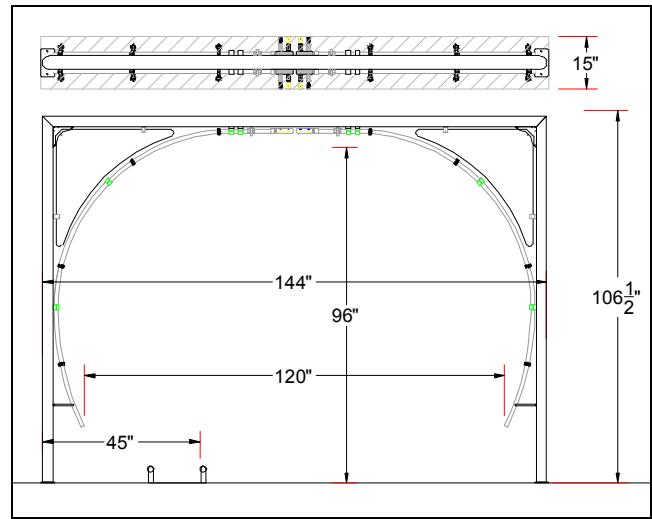
Pic #1: Square Single V-Nozzle Arch



Pic #2: Square Double and Triple V-Nozzle Arch



Pic #3: Square Single K-Nozzle Arch



Pic #4 Square Double K-Nozzle Arch

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## Suggested Installation Tools and Materials

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Hammer Drill with 1/2" Drill Bit | <input type="checkbox"/> (12) Wedge Anchor Bolts 1/2" x 3-3/4" |
| <input type="checkbox"/> Sledge Hammer                               | <input type="checkbox"/> Safety Goggles                        |
| <input type="checkbox"/> Set of Standard Combo Wrenches              | <input type="checkbox"/> Torpedo Level                         |
| <input type="checkbox"/> Measuring Tape                              | <input type="checkbox"/> 6' Step Ladder                        |

## Notes and safety Symbols

Where necessary, important points will be highlighted in this manual, using the following symbols:


**NOTE: PROVIDES FURTHER INFORMATION!**

**STOP! PRECAUTION TO TAKE TO AVOID EQUIPMENT MALFUNCTION OR ERROR!**

**WARNING! DANGEROUS SITUATION WHICH MAY CAUSE EQUIPMENT DAMAGE, PERSONAL INJURIES OR FATALITIES!**

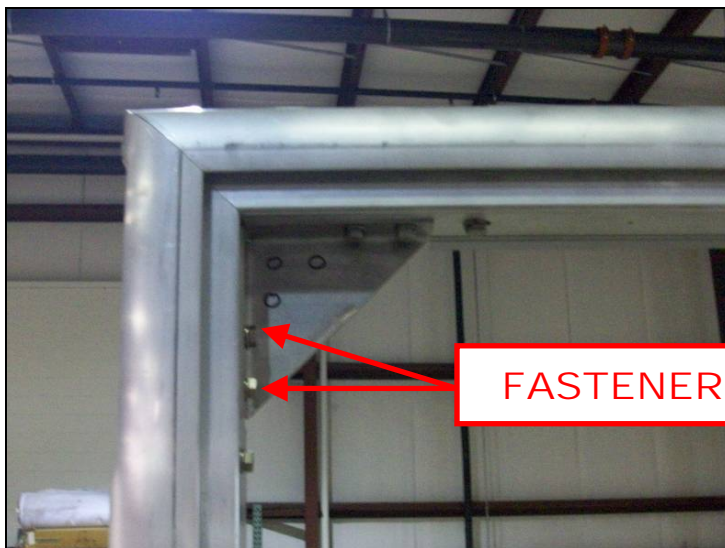
**Always follow all "Notes", "Warnings" and instructions. Failure to do so may have serious consequences on the overall performance of the equipment and/or the safety of the people working on the equipment!**

## Installation Procedures

-  **Upon** receiving your MCWW equipment, open all boxes and crates and verify that you have all the required components as and there is no damage to the equipment. Verify also that you have all your installation materials.
- Remove** packaging material covering your **MCWW ARCH** and bring it to the wash in the area where it will be installed and verify that the area is sufficiently large for the **MCWW SKINS ARCH WORKING ENVELOPE** and **DIMENSIONS** (see Picture #1 though #4).
- Assemble** the arch on the floor by connecting a **DRIVER'S SIDE** leg assembly to the main cross beam. The main cross beam and the leg comes complete with all the mounts conveniently secured at the factory. Insure that both are oriented in the same direction (see **NOTES** below). Connect the mitered end of the leg assembly to the mitered end of the cross beam as shown in picture #5 and 6 below.
- Repeat** the same process for the **PASSENGER'S SIDE LEG**.



**STOP!**  
**THE ENTRANCE SIDE OF THE CROSS BEAM AND THE LEGS HAS LONG ALUMINUM CHANNELS FOR NEON LIGHT**



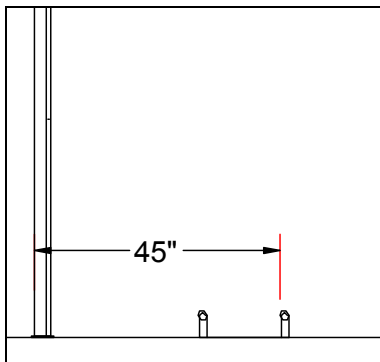
Pic #5: Secure Inside Corner to Leg Assembly



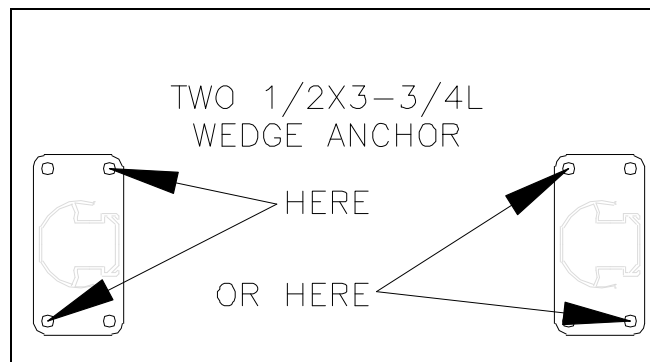
Pic #6: Secure Outside Corner to Leg Assembly

**FASTENERS**

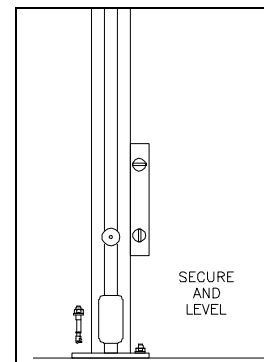
- Locate** the **ARCH DRIVER'S SIDE LEG** outside edge **45 INCHES** from the **INSIDE EDGE OF THE INSIDE GUIDE RAIL** as shown in pictures #8 and secure using four **1/2"X3-3/4"** wedge anchor bolts (2 per detail plates) see picture below.



Pic #7: Driver Side Leg



Pic #8: Two Anchor Per Leg



Pic #9: Level

- **Locate** the side mount and clamp and secure one manifold standing up with the plugged end facing down as shown in picture #10.
- **Bend** the top portion of the manifold and secure it in the middle of the arch with double-mount clamps, located on top of the arch (see Picture #11). Turn the manifold with the nozzle toward the exit for **K-FOAMER ARCH** or toward each other for **V NOZZLE ARCH** (Pictures #10, 11). Keep the clamps loose for later adjustment.

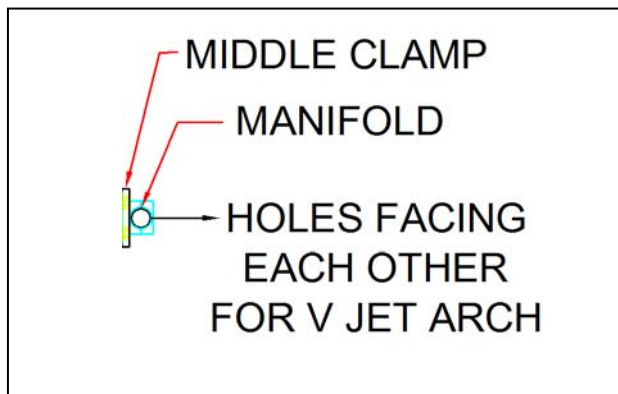
**NOTE:**  
 **IF YOU HAVE A TRIPLE MANIFOLD ARCH, START MOUNTING THE MIDDLE MANIFOLD BEFORE THE TWO OUTSIDE MANIFOLDS**



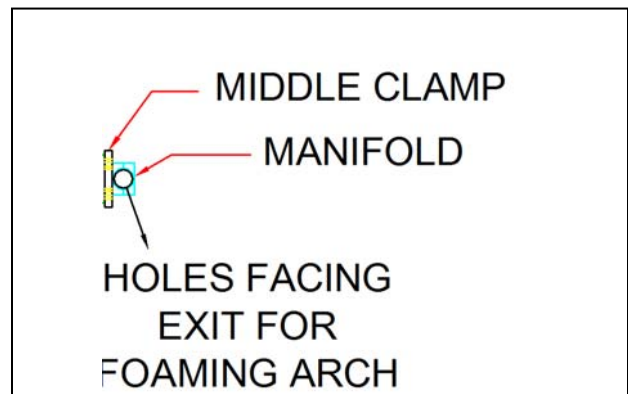
Pic #10: Side Clamp



Pic #11: Double-Mount Clamps



Pic #12: V Nozzle Arch



Pic #13: K-Foamer Arch

- **Locate** the bottom saddle and secure to the arch. Bend the bottom of the manifold until it seats in the saddle (see picture #14). Leaving the clamp loose allows you to position the manifold properly.



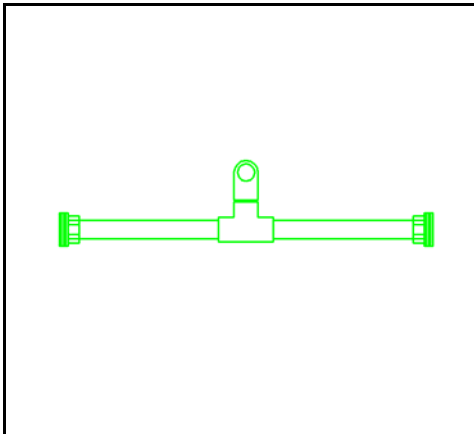
Pic #14: Arch Single Manifold Saddle



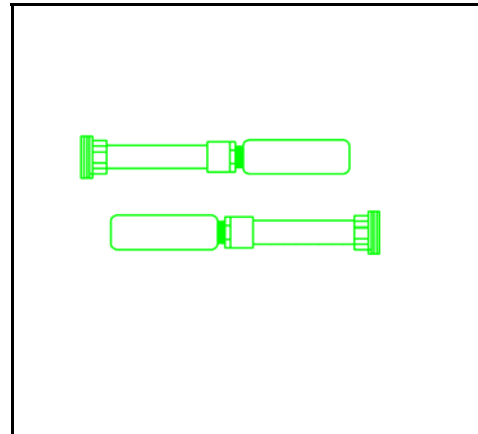
**NOTE:**

**IF YOU HAVE A DUAL OR TRIPLE MANIFOLD ARCH, REPEAT THE SAME PROCEDURE FOR THE ADDITIONAL MANIFOLDS**

- Secure** the TEE manifold between the two arch manifolds if the arch is a **V-NOZZLE ARCH**. Secure a foamer generator on each arch manifold if the arch is a **K-NOZZLE ARCH** (see pictures #15, 16 below).



Pic #15: V Nozzle Arch Tee Manifold

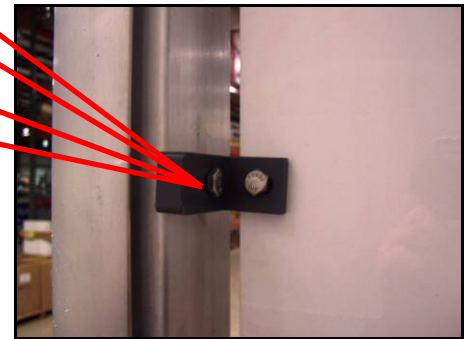
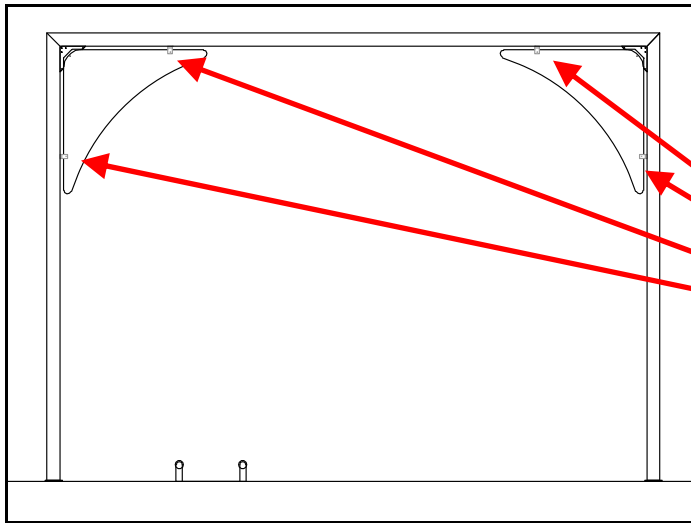


Pic #16: K-Foamer Generators



Pic #17: Triple Arch Tee Manifold

- If your arch is a **TRIPLE MANIFOLD ARCH**, install the **MIDDLE TEE MANIFOLD** with the hose barbed fitting pointing at the entrance or the exit. The two other manifolds will be installed with the hose barbed fitting pointing to the ceiling.
- Tighten** all the clamps. If your Arch is equipped with **CORNER SIGNS**, locate the signs brackets and secure the signs to the brackets.



CORNER SIGN BRACKETS

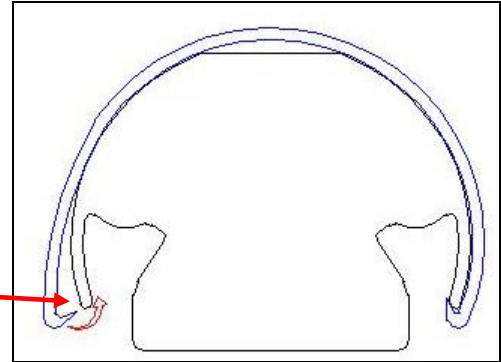
Pic18: Corner Signs

- Locate the boxes containing the **COLOR SKINZ™** covers and install on each arch section (see below).

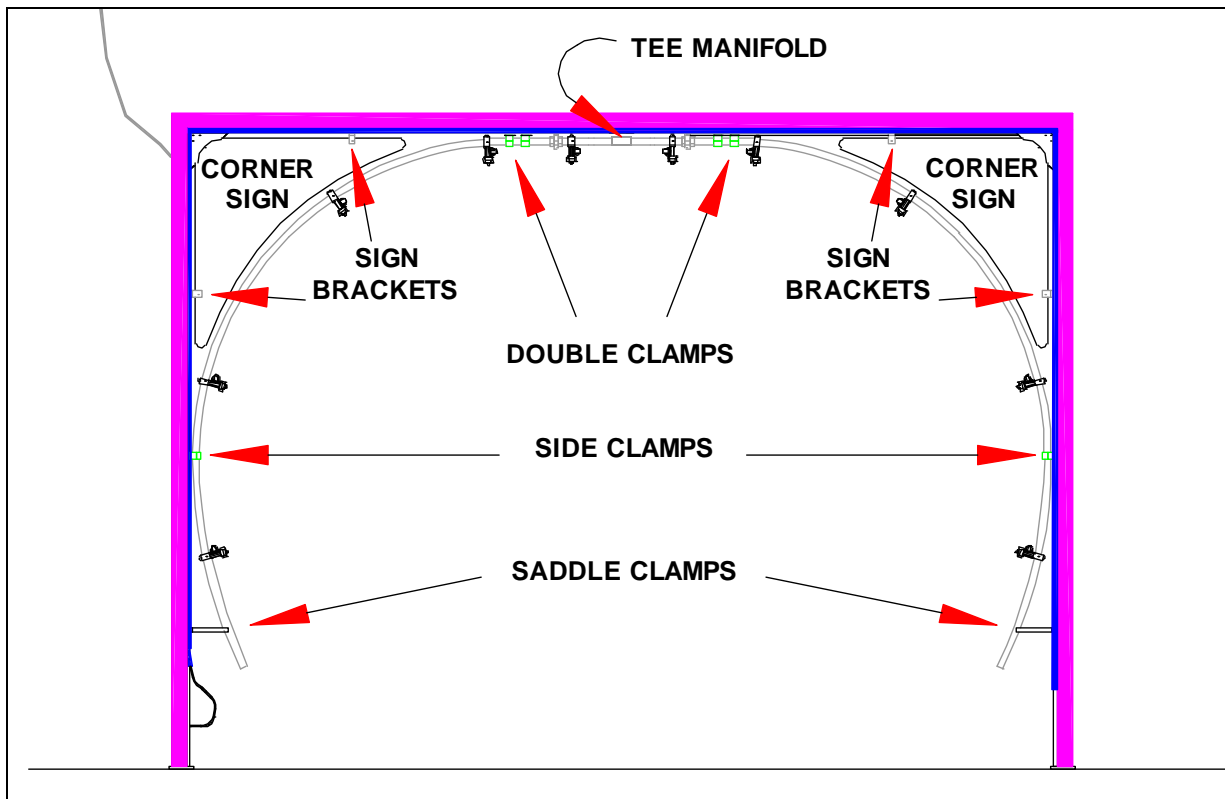


Pic #19 Color Skinz™

SELECT THE PROPER COLOR SKINZ™ COVER. SNAP ONE SIDE OF THE LIP, SLIDE THE COVER AROUND THE LEG AND FINALLY SNAP THE SECOND LIP PAST THE EXTRUSION EDGE (see Picture #20)



Pic #20 Color Skinz™



Pic #21 Complete Arch with LED

## Optional Arch Light Kit:

Part # ARCHLIGHTKIT101...-112

Electrical Specifications:


Light Kit.....24VDC

Flasher Unit..... Supply: 120VAC, 2A  
Control: 24-250V AC/DC

## Suggested Installation Tools and Materials

- |  |   |
|--|---|
| <input checked="" type="checkbox"/>  3/16" Socket Head (Allen) Wrench | <input type="checkbox"/> Wire Stripper and Wire Ties            |
| <input type="checkbox"/> 1/8" Socket Head (Allen) Wrench   | <input type="checkbox"/> 2 Conductors #14 AWG Low Voltage Cable |
| <input type="checkbox"/> 6' Step Ladder  | <input type="checkbox"/> Water Proof Wire Nuts                  |

## Installation Procedures:

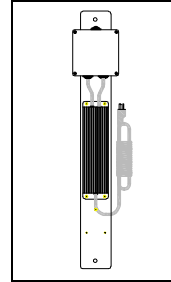
-  **Upon** receiving your MCWW Light Kit, open the box and verify that you have all the required components and there is no damage to the equipment. Verify also that you have all your installation material.



Pic #19: LED String

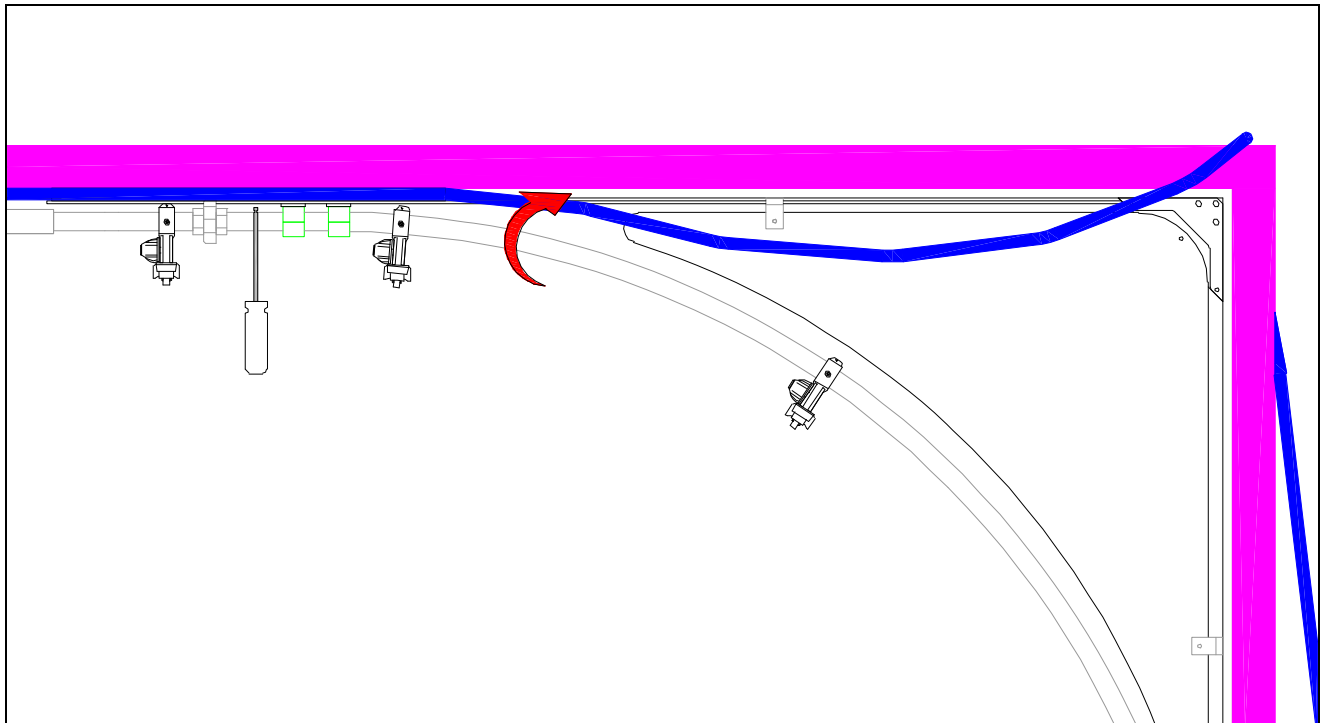


Pic #20: Other LED String



Pic #21 Flasher Unit

- Locate** the mark indicating the middle of the light string and start inserting the light string in the **ALUMINUM CHANNEL** mounted on the cross beam (see Picture below).



Pic #23 LED String and Mounts

- **Remove** the **Color Skinz™** from the side were the **LIGHT STRING** electrical cord is located (see Picture #24) and pull the LED LIGHT cord thru the opening. Pull the cord thru the **UTILITY HOLE** located on the outside face of the leg.

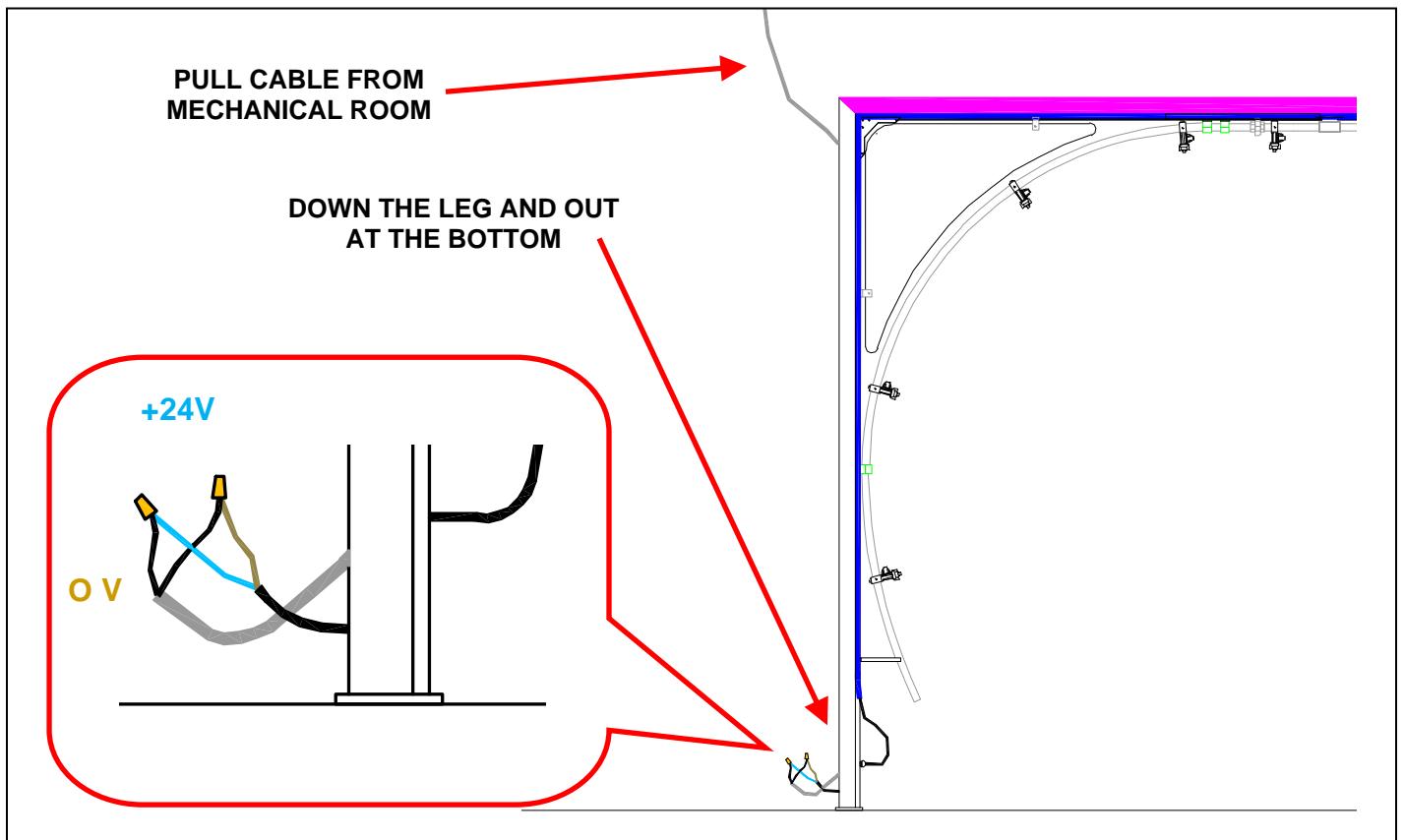


Pic #24 Cord LED



Pic #25 Utility Opening

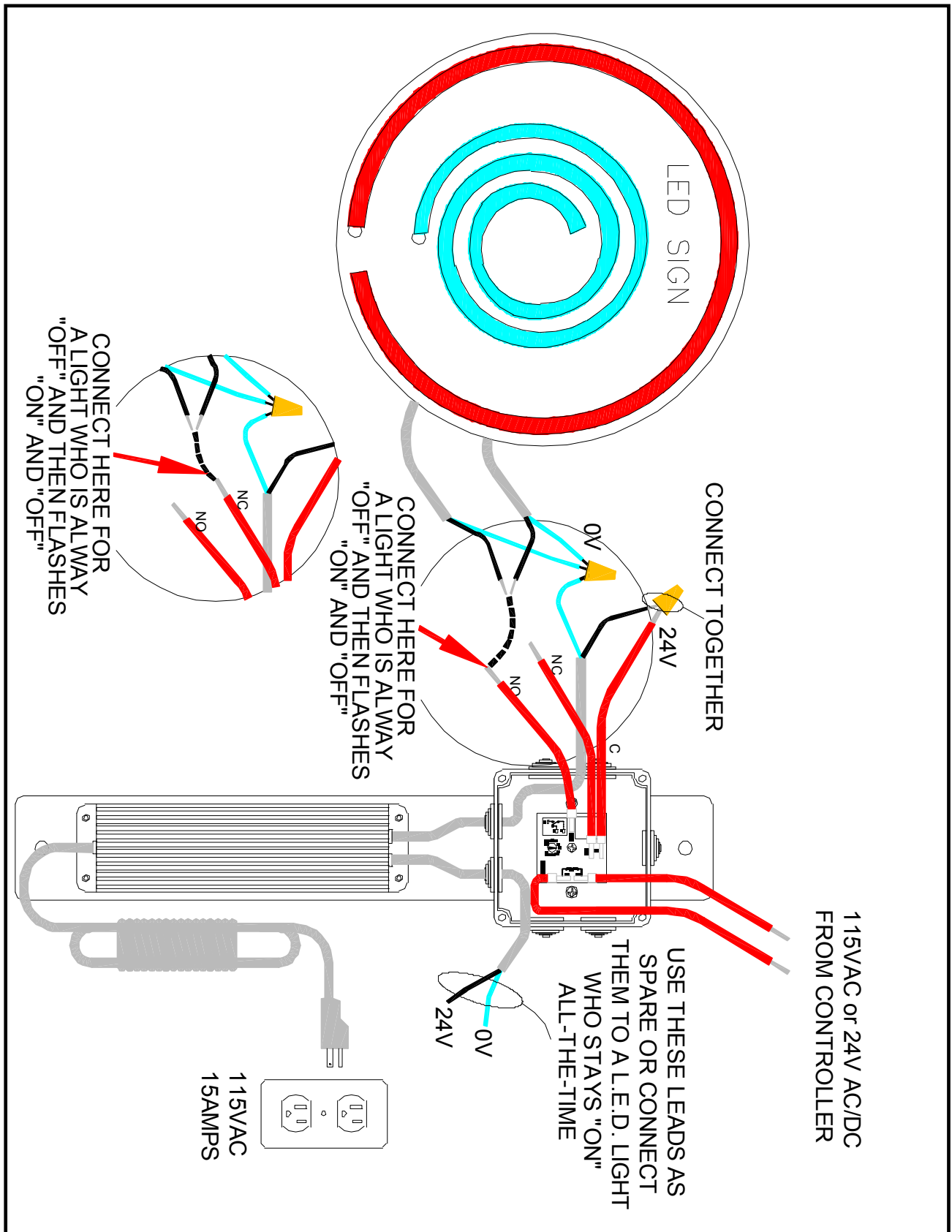
- **Pull** a 2 Conductors PVC Jacket #14 AWG Low Voltage Cable from the mechanical room to the arch, pull the cable through the leg and connect to the LED string cord using **WATER RESISTANT** wire nuts (see Picture #25). Finally install the leg **Color Skinz™**.

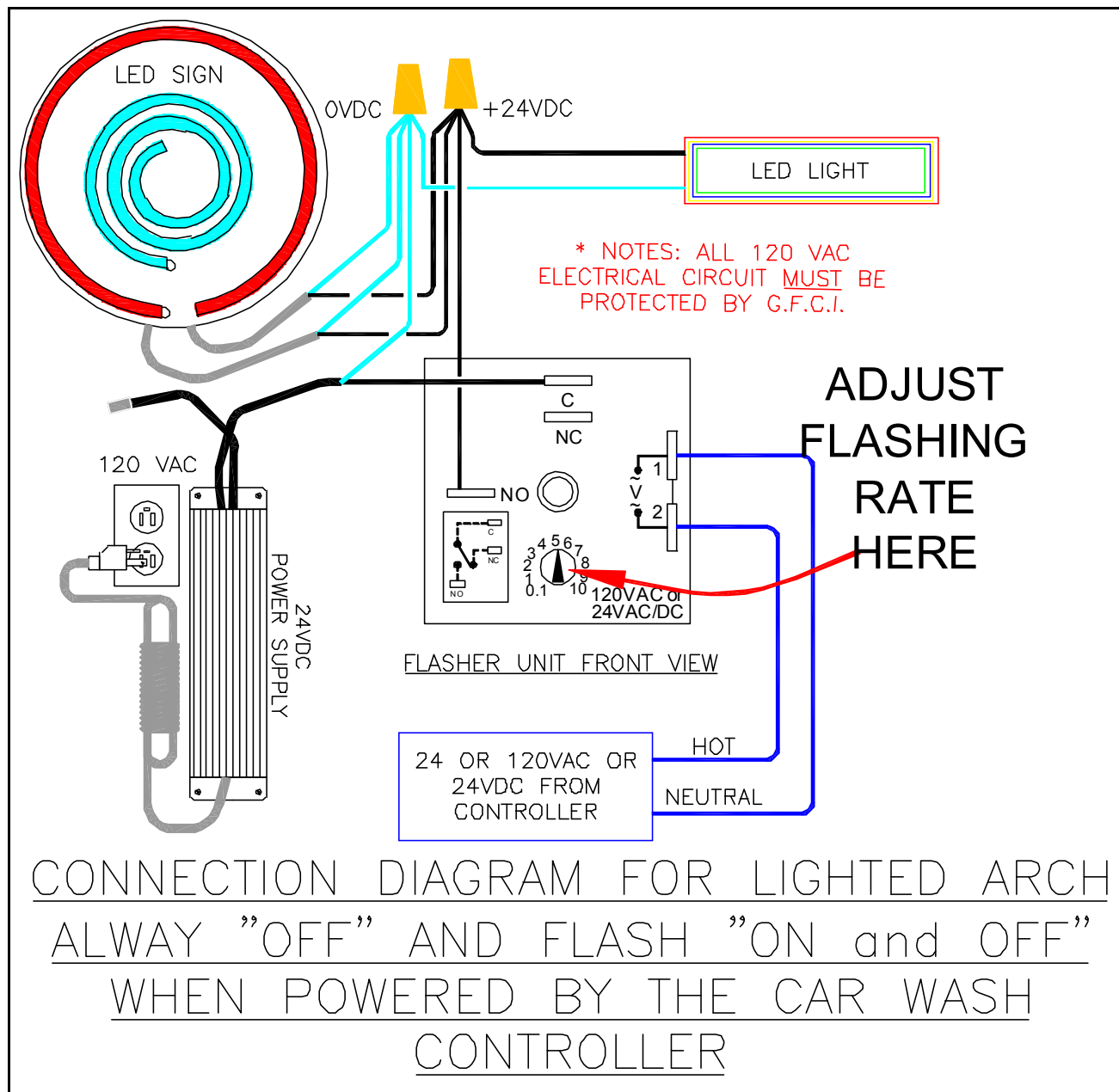


Pic #26 Pull 2C/14 Cable

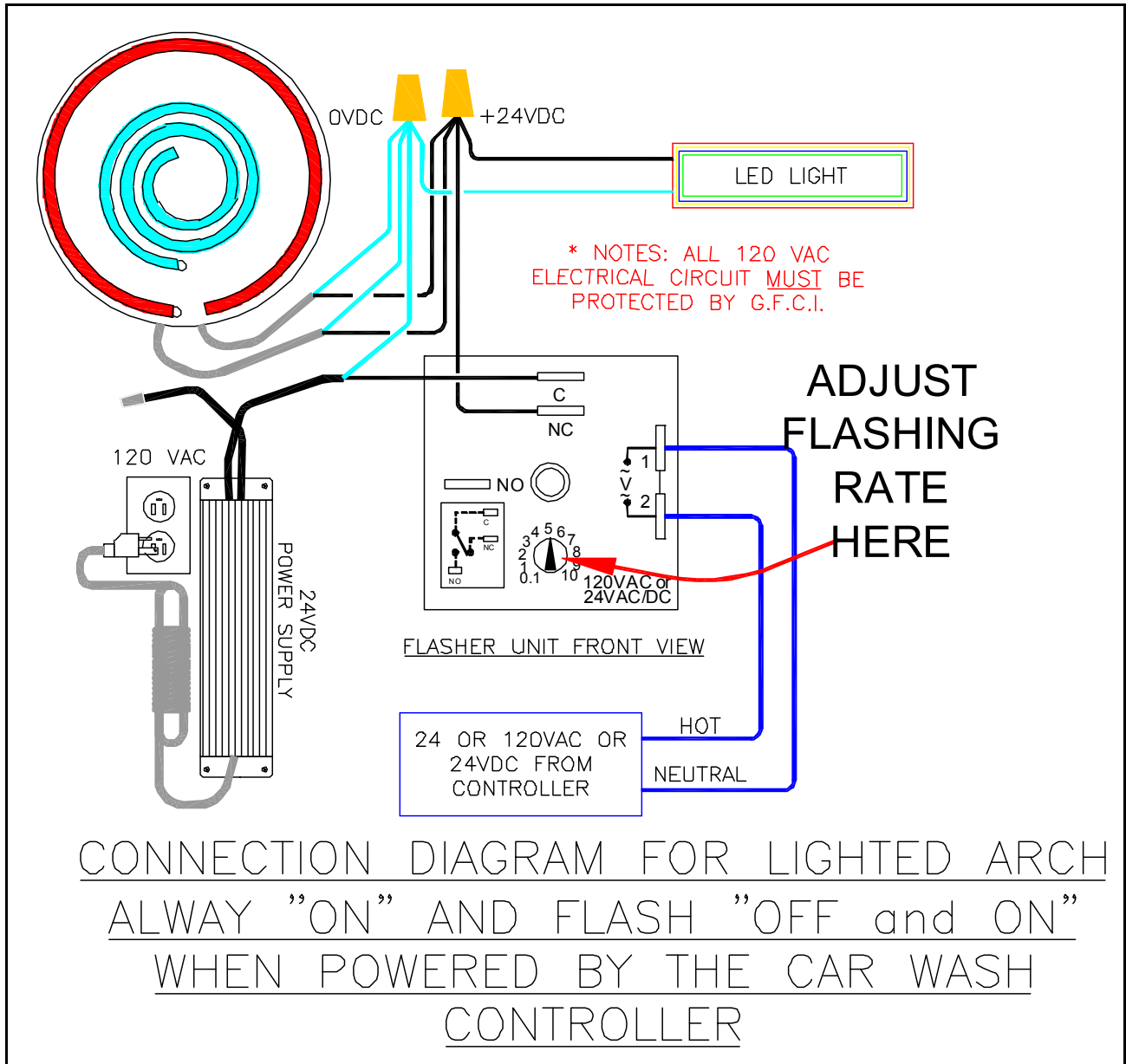
- **Install** the power supply in the Mechanical Room or in a dry area of the wash, close to a 120 VAC power outlet. Install the flasher assembly close to the power supply.
- Connect the cord end of the power supply to the flasher unit (see Picture #27) and to the 2c/14 cable of the LED light kit following the **ELECTRICAL DIAGRAMS** below:








Pic #11: Connection Diagram of Flasher Unit with Light Always OFF



Pic #12: Connection Diagram of Flasher Unit with Light Always ON

## Start Up and Operation

-  Plug the power supply into the power outlet and turn ON manually the car wash controller output. Your lighted arch is now flashing!



**NOTE: IF THE LIGHTS DON'T WORK, IT MAY BE CONNECTED BACKWARDS. REVERSE THE WIRE POLARITY IN THE FLASHER BOX**

- Open the cover of the flasher enclosure. By turning the flasher knob, adjust the flashing rate to your desire.



**STOP!**  
**DO NOT OVERLOAD THE FLASHER UNIT POWER SUPPLY!**

**4.2 MAX AMPS ALLOWED PER POWER SUPPLY**

**ROUND SIGN = 1 AMP EACH**  
**CORNER SIGN = 1.2 AMPS EACH**  
**BORDER LIGHT (26 FT) = 2.6 AMPS EACH**

## Warranty and Return Procedure:

**Motor City Wash Works** warrant this product to be free of defects in material and/or workmanship for a period of **one year** from the date of purchase. During the warranty period MCWW will at its discretion, at no charge to the customer, repair or replace this product if found defective, with a new or refurbished unit, but not to include costs of removal or installation. Any product returned to MCWW for warranty has to have a **Return Material Authorization Number**. All shipping costs to MCWW are assumed by the customer. This is only a summary of **MCWW's Limited Warranty**. Please, communicate with MCWW for our complete warranty.

**Prior** to returning any product to MCWW, the customer must call in for a **Return Material Authorization Number** and a copy of our **Return Material Authorization Form** must be completed. The **RMA** number must be written clearly on the outside of the shipping package and a copy of the form must be included in the package.