

Pier Gateway Plaza and Arch

Background

An important part of the original RFQ response and approved master plan for Pompano Beach Fishing Village was the Plaza and Arch leading to the Public Pier at the eastern terminus of what is now Pier Street. The Plaza is defined as the area bounded by the Pier on the east, Pompano Beach Boulevard on the west, Oceanic Restaurant on the north and Lucky Fish Beach Bar and Grill on the south.

The idea was to create an iconic landmark for the City that would become immediately recognizable in Pompano Beach and beyond. The Pier Plaza and Arch were intended to leave a lasting visually dramatic impression of Pompano's redeveloped beachfront in the minds of both residents from every corner of the City and visitors from outside Pompano Beach.

EDSA, the designers of the original CRA funded beachfront improvements, was retained to create a plaza and arch design by the Pier Developers. The original thought was to create a modest paver plaza and arch, something along the lines of Mallory Square in Key West.



EDSA, however, has created an artistic and impactful design for the Plaza and Arch, in keeping with the quality of design found in the Beachfront Improvements, the new Pier, the Parking Garage and the various buildings now complete, under construction and proposed in Pompano Beach Fishing Village.

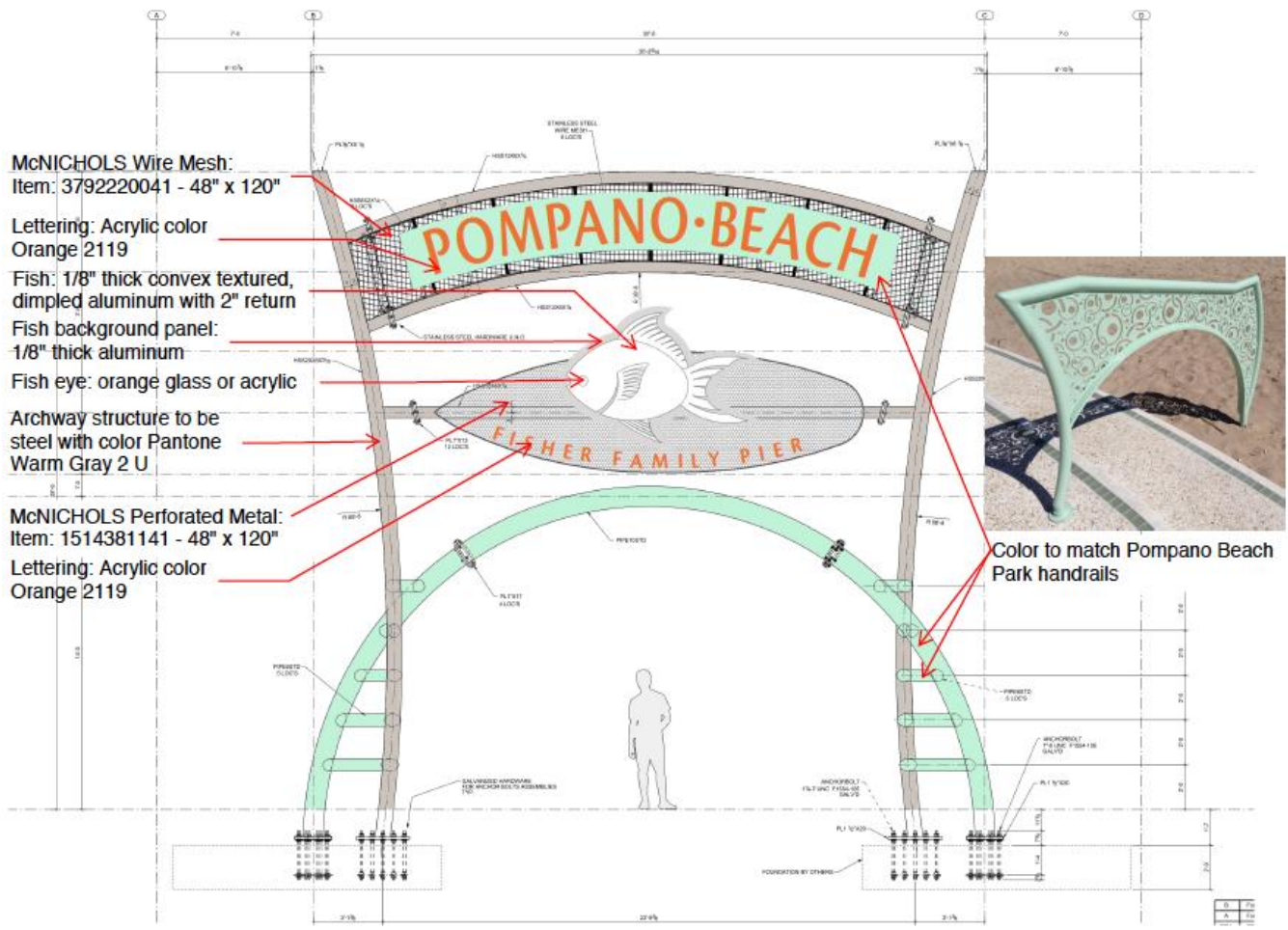
Its location at the foot of the Pier at the intersection of Pompano Beach Boulevard and newly constructed Pier Street terminates the vista from SR A1A and will serve as a meeting place and photo opportunity for visitors. Along with the hotel, restaurants and shops now under construction, the Plaza and Arch crucial element in making Pompano Beach Fishing Village a true (and in this era, a social media-friendly) destination. The design is intended to emphasize the City's history as a fishing and water sports hub. Lighting will be of course be turtle friendly and the Gateway Arch will be engineered to comply with FBC windload requirements. Originally budgeted to cost \$250,000, to be funded entirely by the Pier Developer, many factors have driven the cost up, including:

- Desire to match the same specialty concrete used along the Pompano Beach Boulevard in the Plaza. This costs 4-5 times the cost of normal concrete or pavers. There is only one contractor that can install the concrete.
- Circular plaza concrete design complicates installation further.
- The arch itself will be made of rolled steel for both hurricane resistance and a unique aesthetic compatible with the buildings surrounding it.
- The scale of the arch needed be sufficient so as to not be overwhelmed by the distinctive architecture of Oceanic.
- Custom designed metal surfboard and fish elements with special attachments and wiring.
- Ability to illuminate the arch at night; this requires special FDEP approved lighting.
- Unanticipated Relocation of utilities (fire, comcast, irrigation lines, etc.)
- Piling supports to support and anchor arch
- Additional lettering beyond just "Pompano Beach".

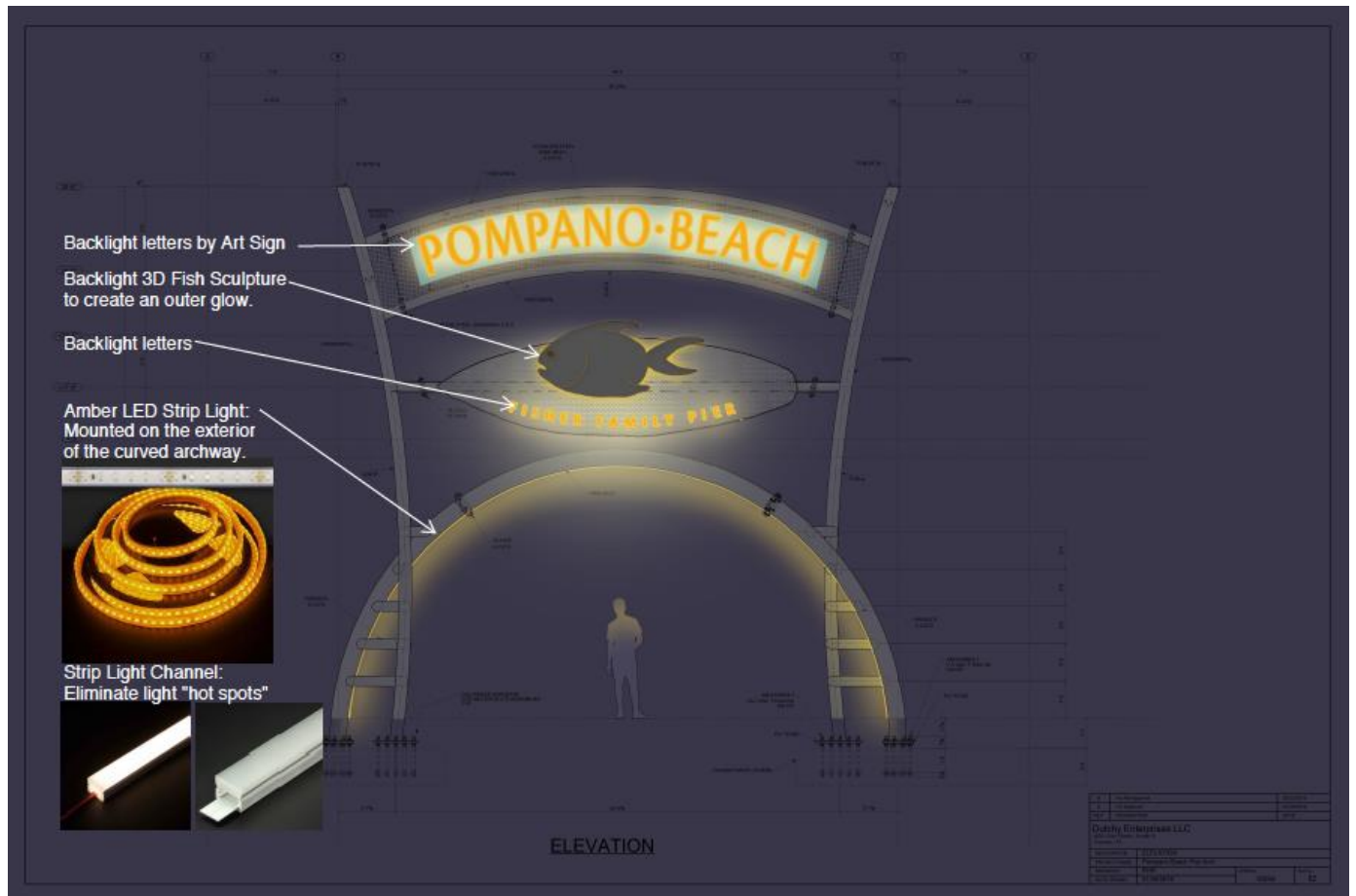
Following are drawings of the Arch and Plaza and a detailed budget.

Dimensioned Daytime view

Archway Illustrative Elevation



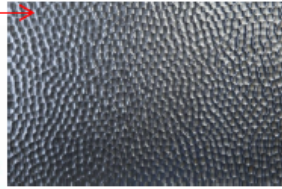
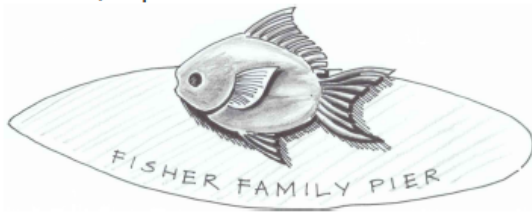
Nighttime view



Fish Detail

Fish Detail:

- Fish will want to be finished with a shaded look to create more character on the curve.
- Textured, dimpled aluminum to emulate scales



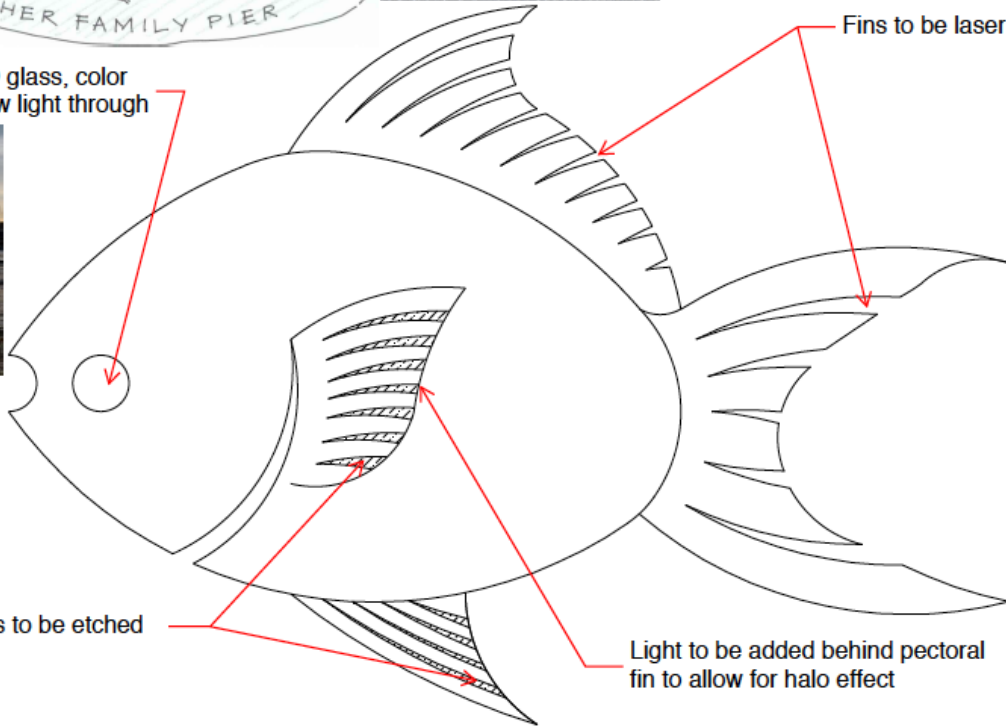
Eye to be a 3D glass, color orange, to allow light through



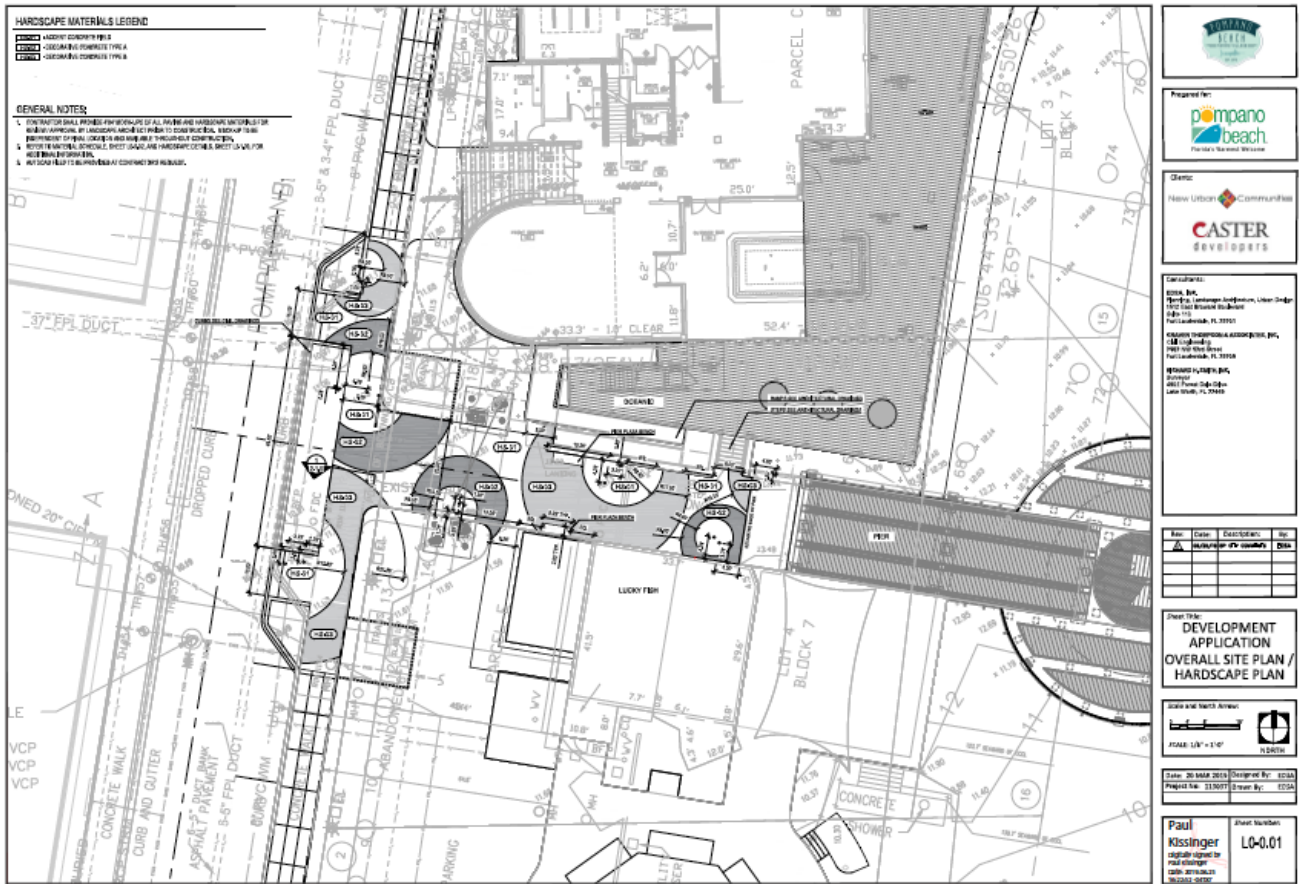
Fins to be etched

Light to be added behind pectoral fin to allow for halo effect

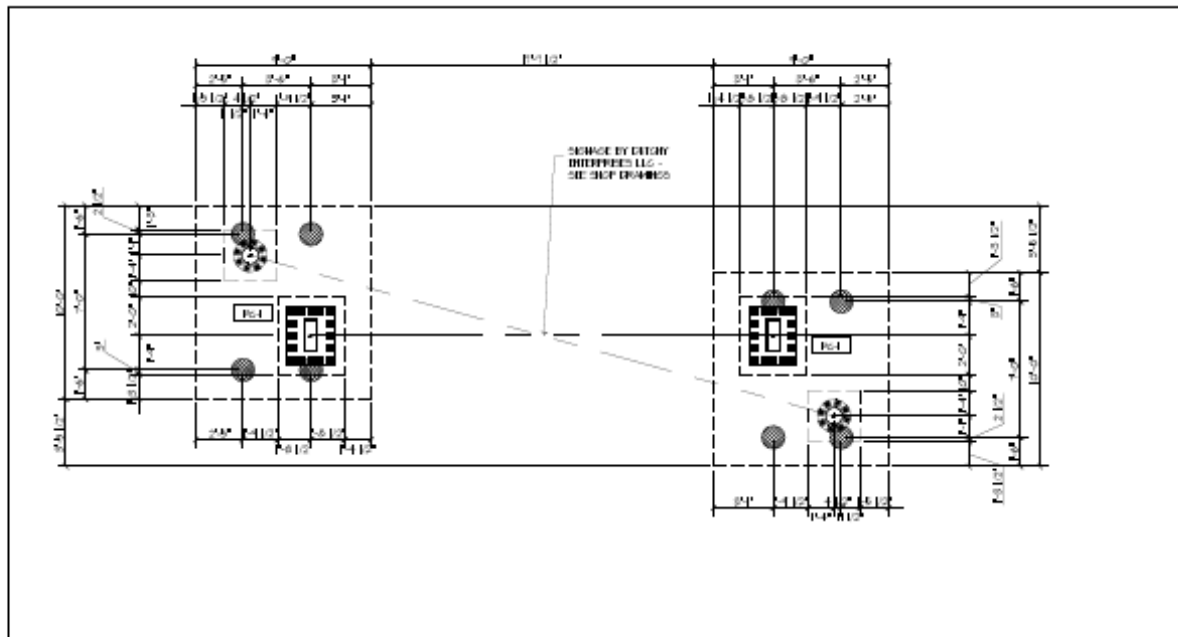
Fins to be laser cut



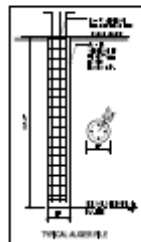
Plaza Site Plan



Arch Foundation Plan

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FOUNDATION PLAN

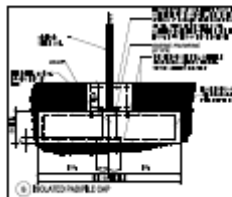


LONG SCHEDULE

DATE: _____
CITY AND STATE: _____
SCHOOL NAME: _____
TEACHER'S NAME: _____
STUDENT'S NAME: _____
STUDENT'S GRADE: _____
STUDENT'S ID NUMBER: _____

**THERE HAVE BEEN PREPARED
USING THE 2017 FLORIDA
BUILDING CODE, 6TH EDITION,
BUILDING AND ASCE 7-18.**

Signature: _____
Date: _____



GRACE BEAM FILE CAP SCHEDULE				
DATE	FILE NAME	DESCRIPTION	APPROVED	REMARKS
2014	2014-01-01	2014-01-01	2014-01-01	

designed	des
drawn	dr
checked	ch
date	dt
scale	sc
job no.	job no.

Source: Statista
 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

POMPANO RIER GATEWAY
POMPANO BEACH
BROWARD COUNTY
FLORIDA
by •

QEA

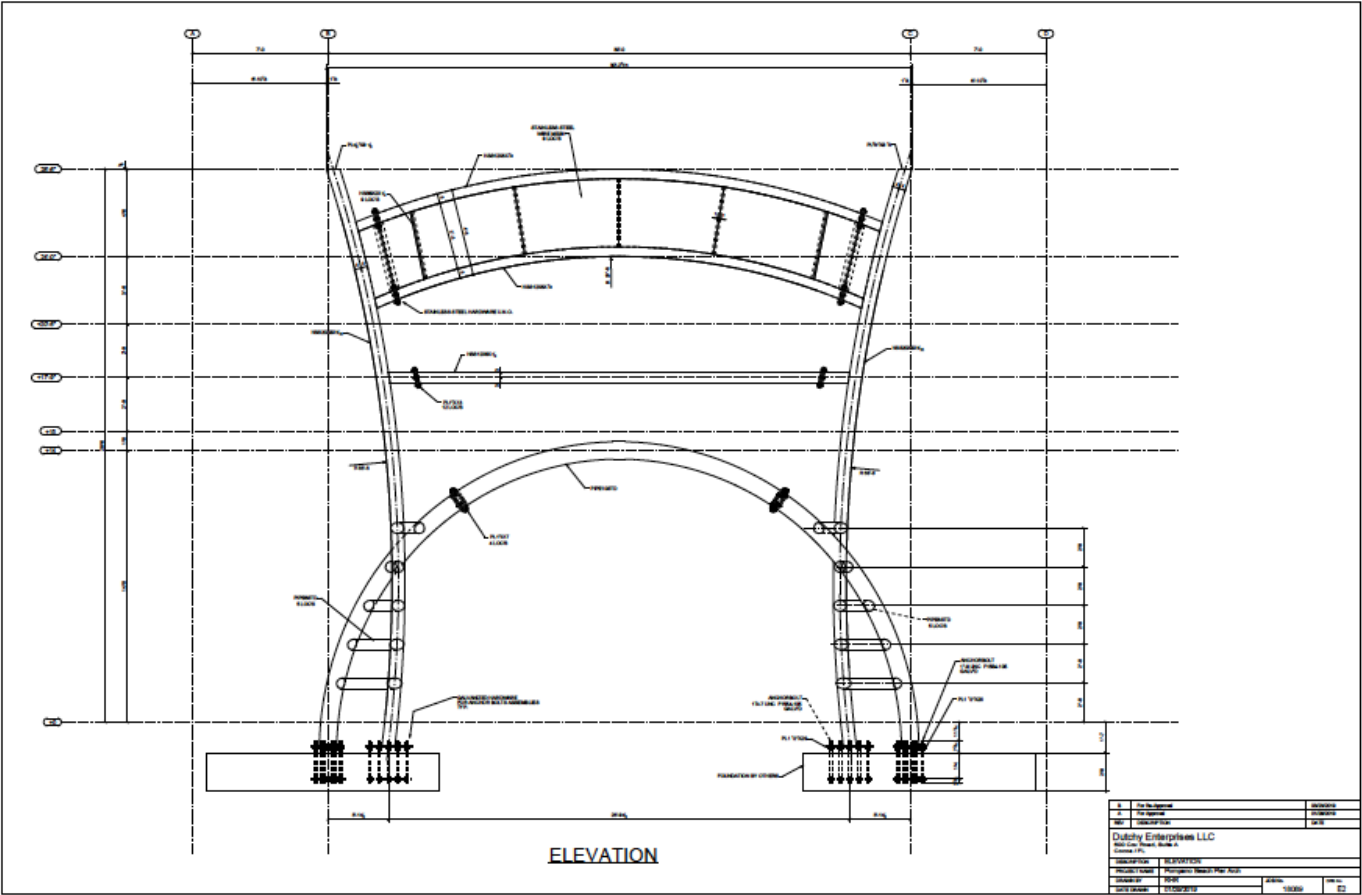
Structural Engineering
in
Civil Engineering

THE UNIVERSITY OF CHICAGO
LIBRARY
THE MUSEUM

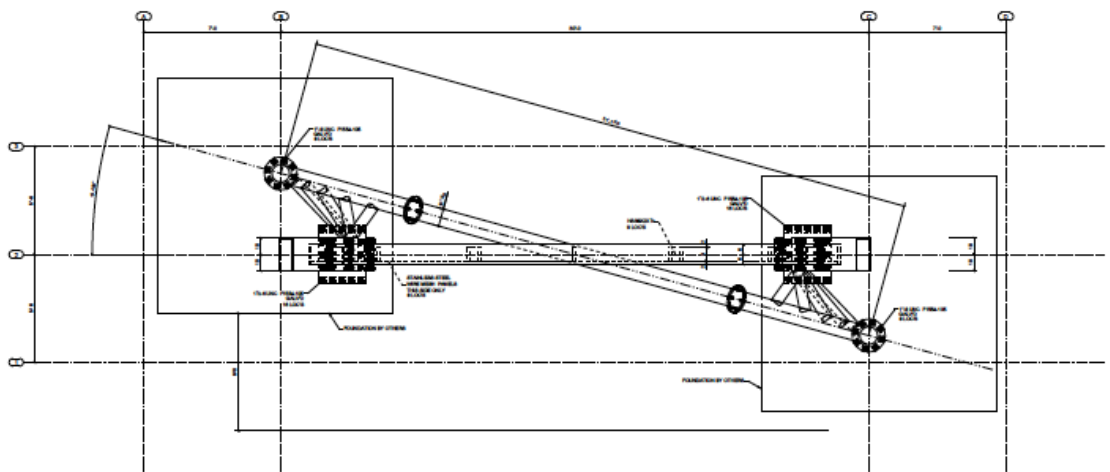
FOUNDATION
PLAN

S-1

Arch Structure



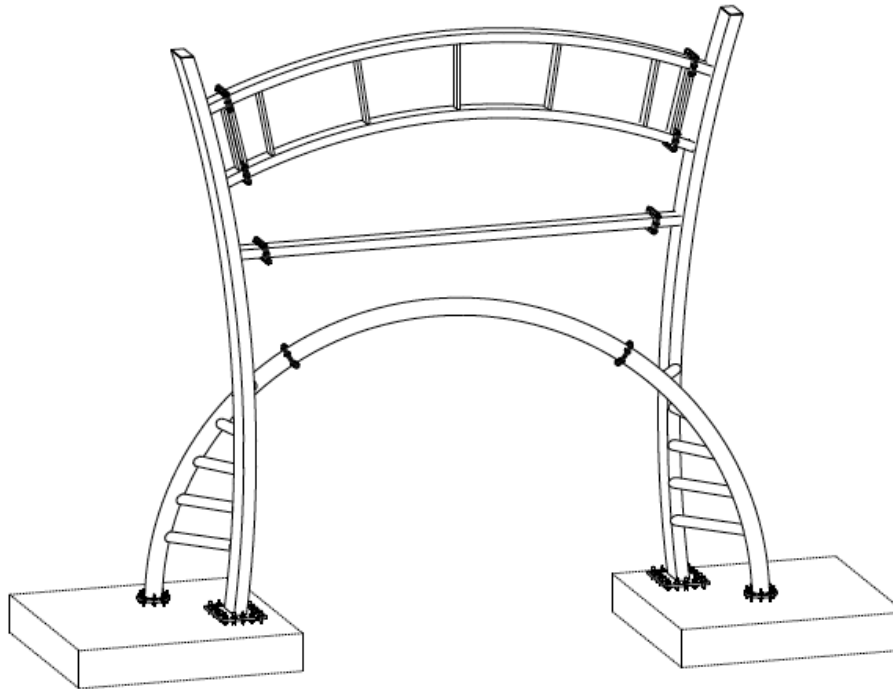
Arch Plan View



PLAN VIEW

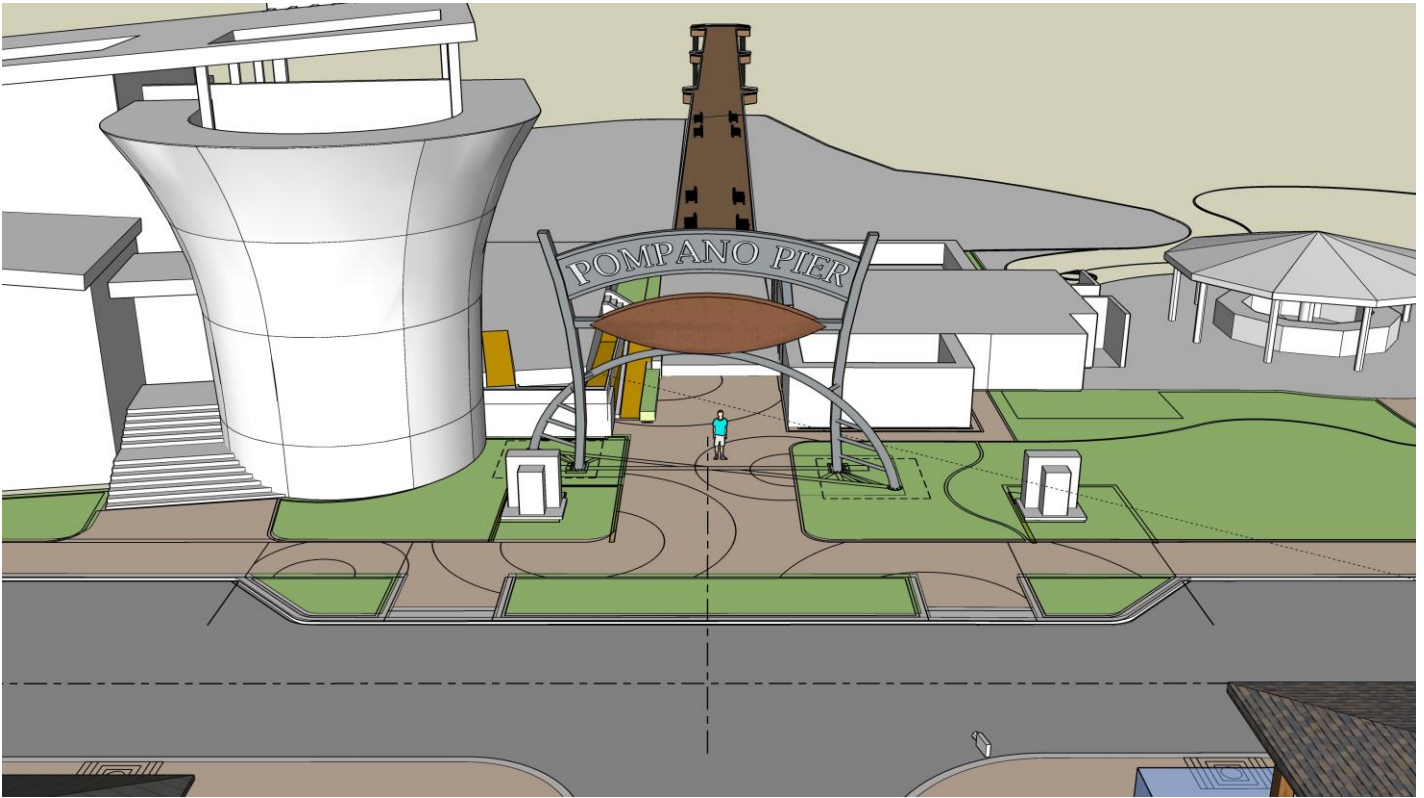
1.	For the Engineer	REVISION
2.	For the Owner	REVISION
3.	For the City	REVISION
4.	For the State	REVISION
5.	For the Federal	REVISION
Duluth Enterprises LLC		
400 East Street, Suite 200		
Duluth, MN 55812		
DESCRIPTION: PLAN VIEW & SECTION		
PROJECT NO.	10000000000000000000	10000000000000000000
DATE: 10/1/2010	10/1/2010	10/1/2010
10/1/2010	10/1/2010	10/1/2010

Arch Isometric

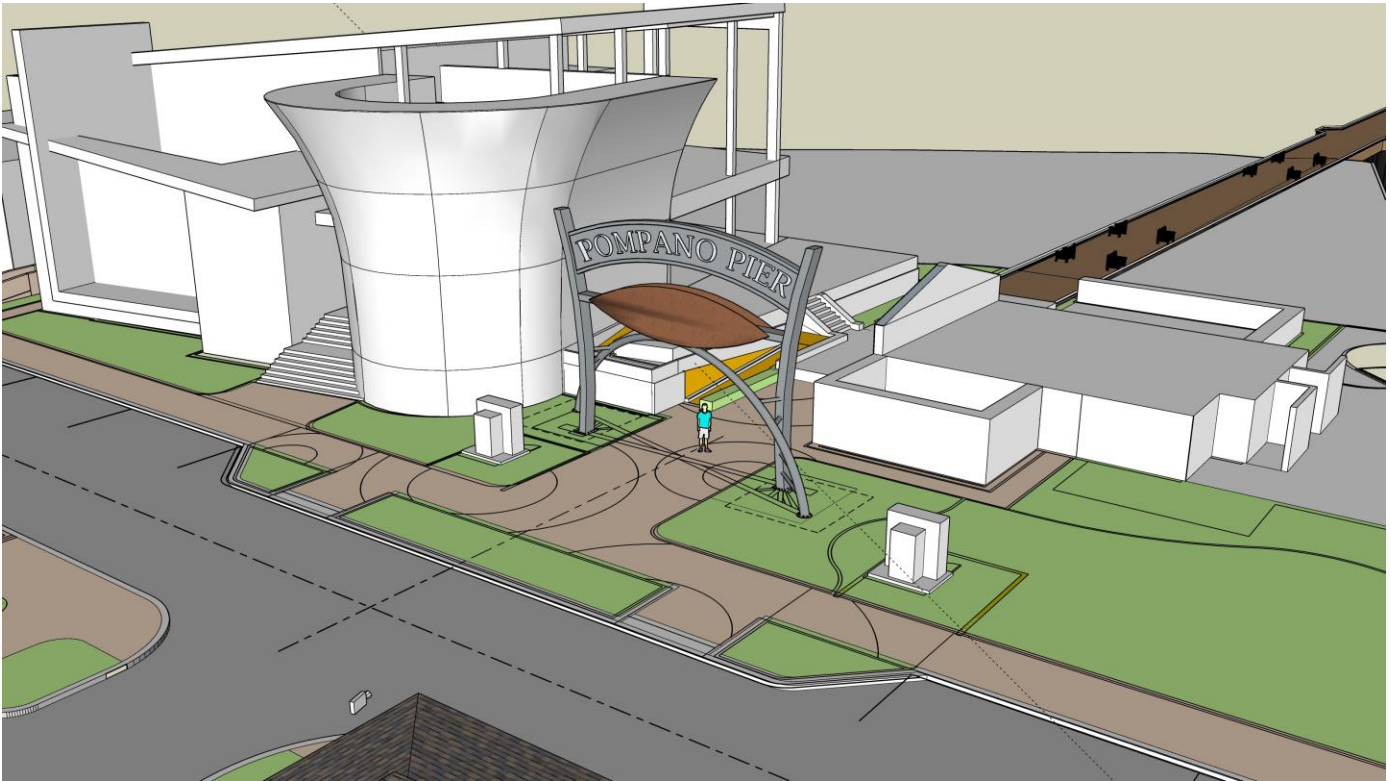
ISOMETRIC

1	For the Applicant	DATE SIGNED
2	For the Surety	DATE SIGNED
3	FOR THE SURETY	DATE SIGNED
Dutch Enterprises LLC 1001 East Street, Suite A Lawrence, KS		
CONTRACT NO. 1500001001		
PROJECT NAME Pharmaceutical Research Plant Add-on		
SIGNED BY JOHN	ADDRESS 1001 East Street, Suite A	CITY Lawrence
STATE KANSAS	ZIP CODE 66044	COUNTY ES

Pier Plaza and Arch Massing Diagram 1



Pier Plaza and Arch Massing Diagram 2



Pier Plaza and Arch Budget