



Robert  
Miner

# CASTLE PARK HIGH SCHOOL

Presents to:

*THE CHULA VISTA CITY COUNCIL*

*NEW FIRE STATION #9*



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# CASTLE PARK HIGH SCHOOL CHULA VISTA

## FIRE STATION #9

Adrian Shivers\*

Kenya Solis\*

Jesus Gonzalez\*

Dominic Alcorn\*

Rosario Castellanos

Eduardo Geraldo

Jose Lagunas\*

Robert Miner\*

Elissian Preciado

Jello Lubigan

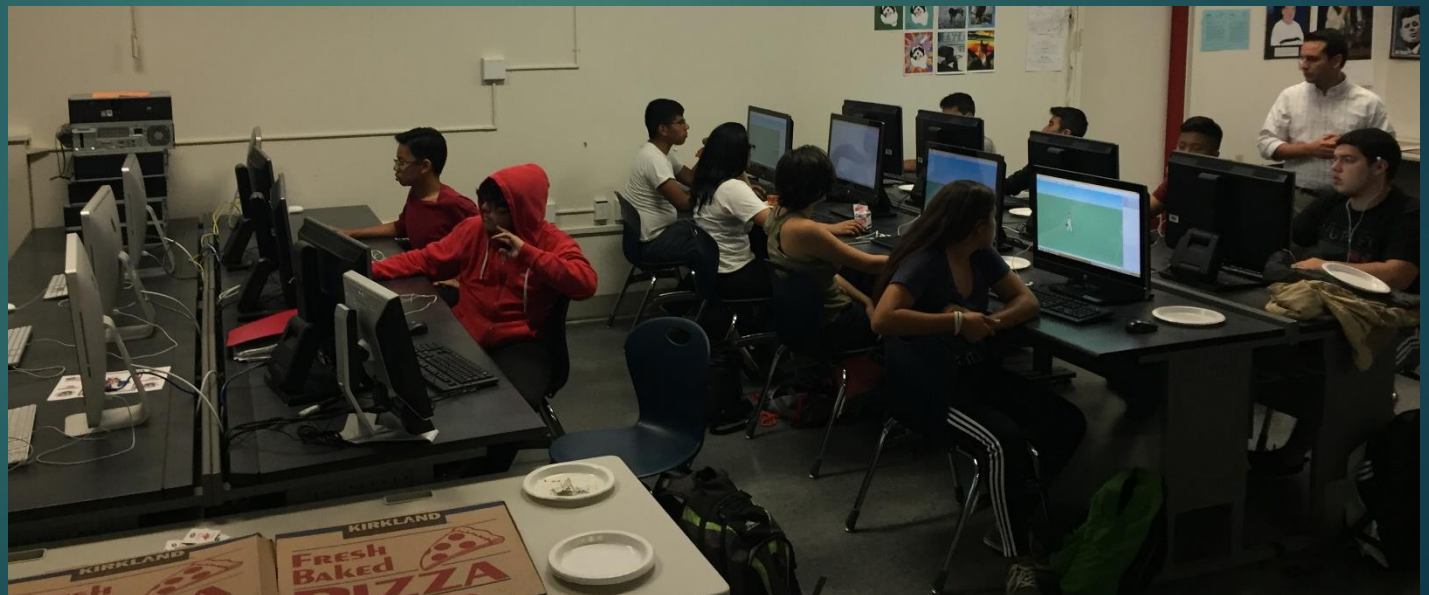
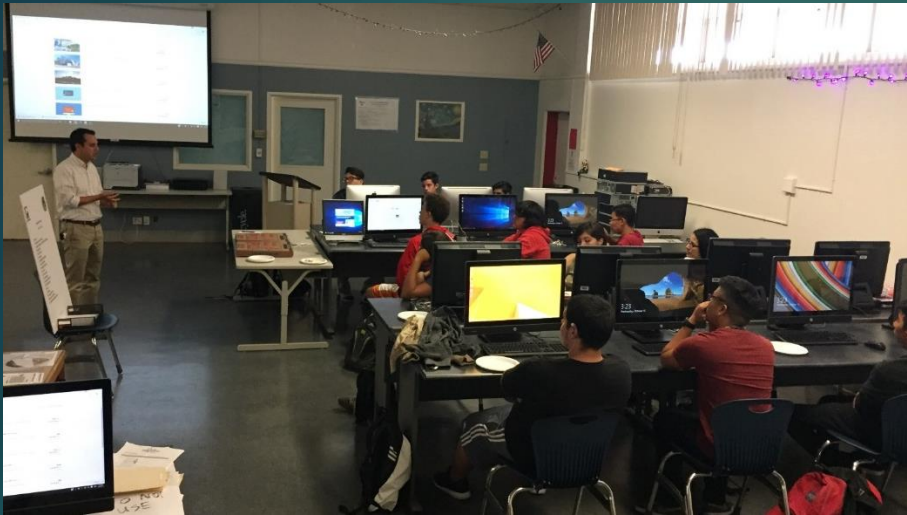
*in partnership with:*

*Vera Howell, Evan Henderson, Pablo Medina, Steve Howell, Troy Schalge, Adam Osborne, Chris Johnson, Guy Carpino, Jim Haughey, Chris Jackson, Enrique Chavez, Chelsea Balkam, Rebecca Glass, Daniel Pearson & Cesar Gamez*

\* Speaker

# Learning BIM and Google SketchUp

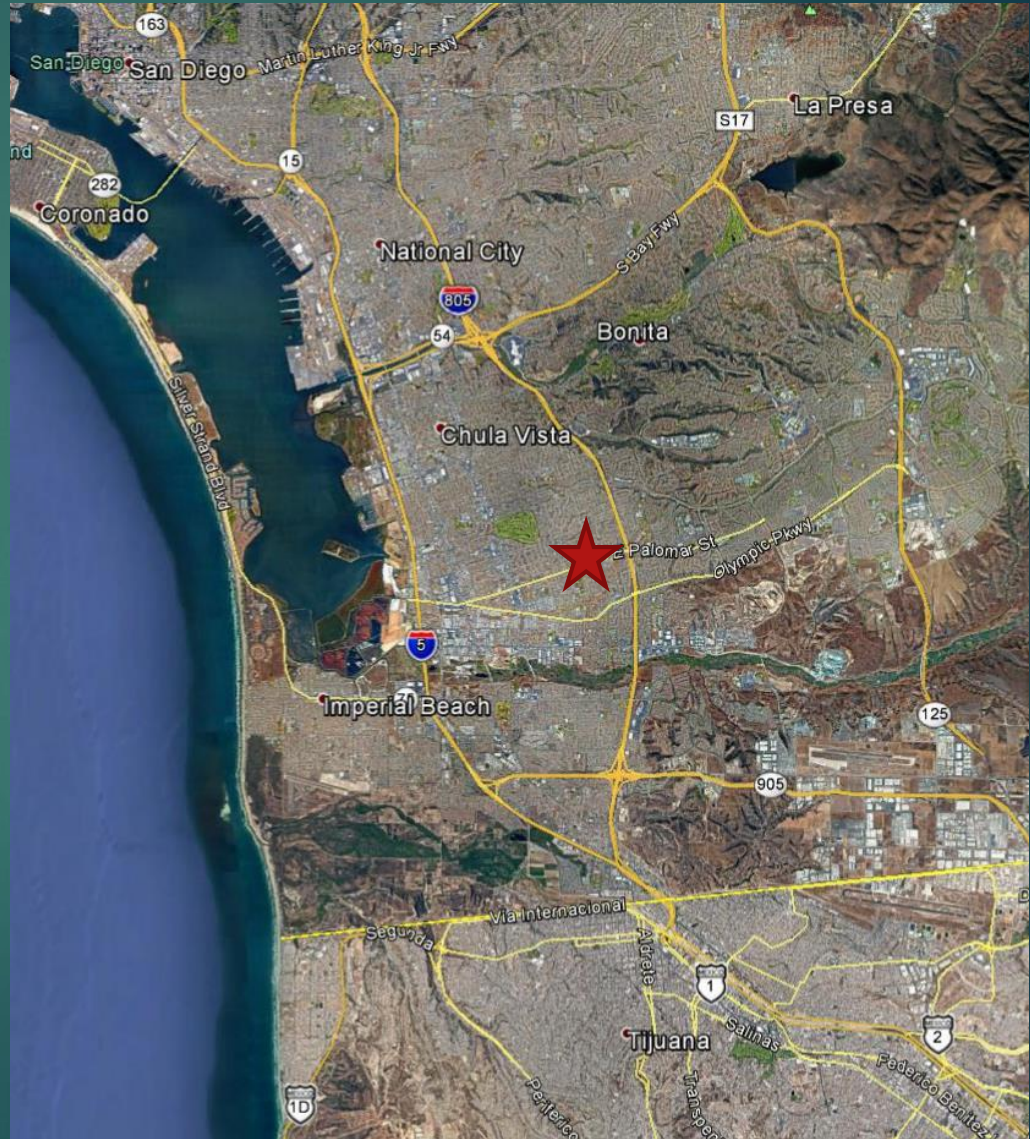
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# PROJECT SITE

## Chula Vista Fire Department Station #9

- Community initiative to invest in fire station improvements
- Researched existing stations and determined station #9 was in the most need
- Decided to redevelop existing site rather than relocate to support the idea of Smart Growth

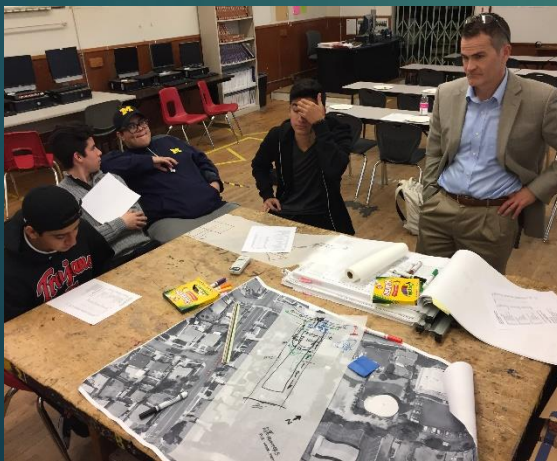
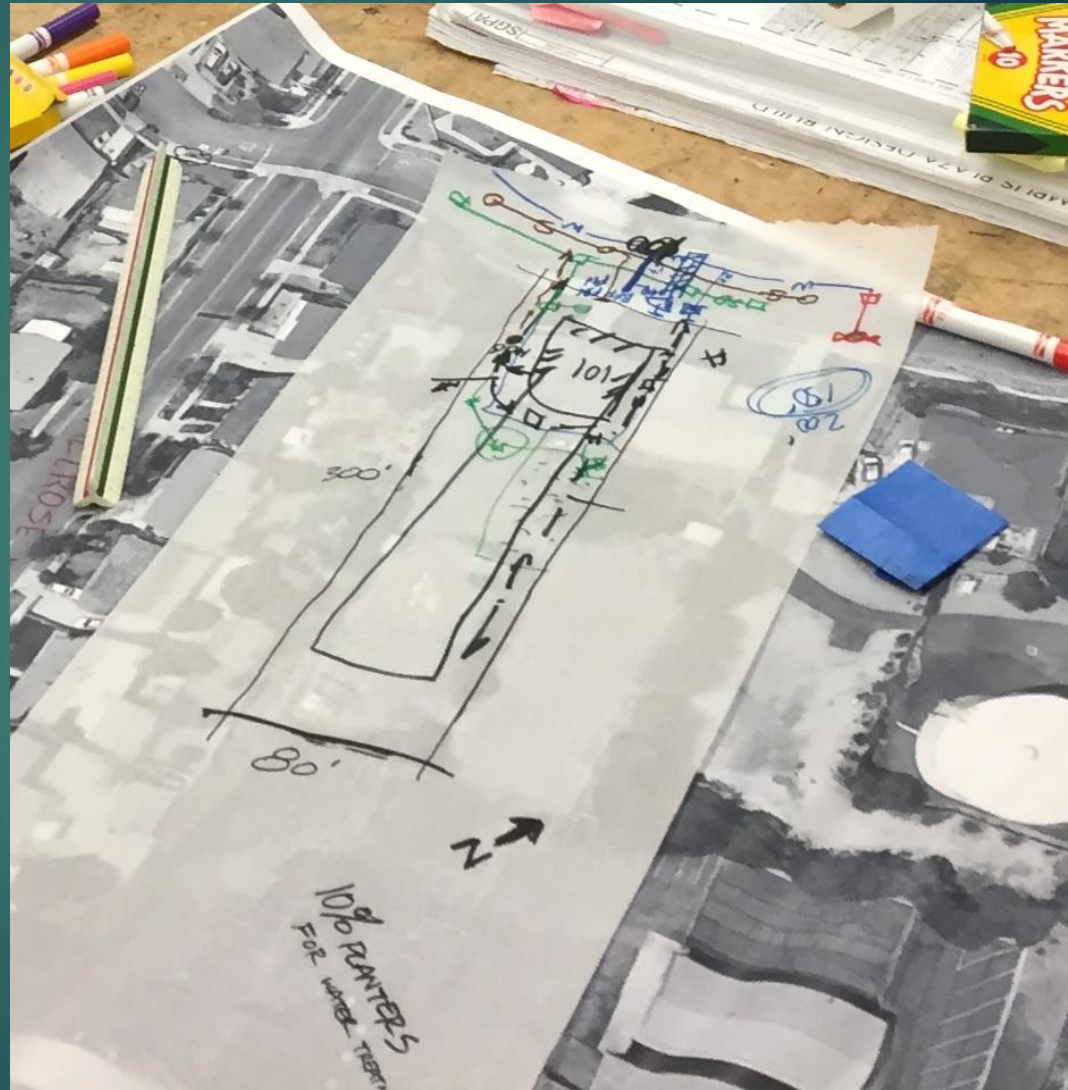


# SITE ANALYSIS

Kenya  
Solis

## Civil engineering

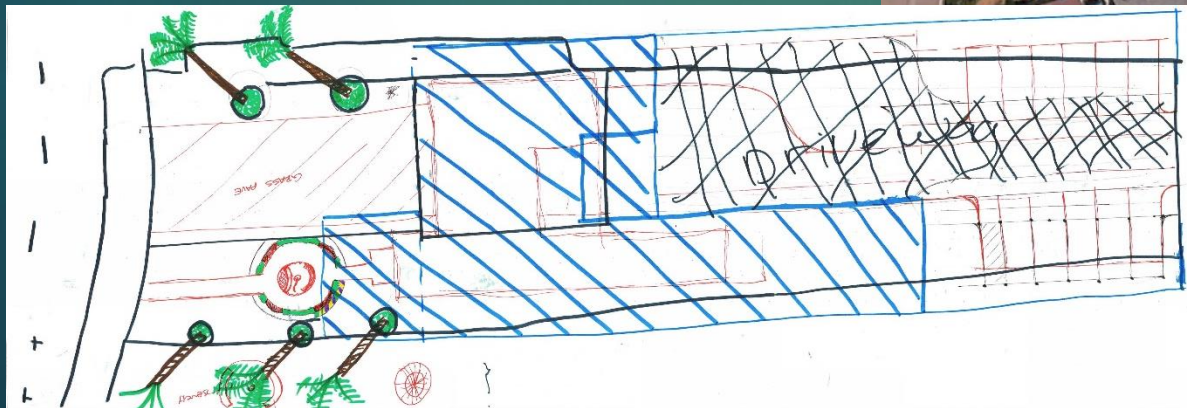
- Worked with a civil engineer to understand utility locations and storm water treatment on site



# SITE ANALYSIS

## Concept site plan

- Vehicular circulation
- Public access
- Parking
- Paving & storm water

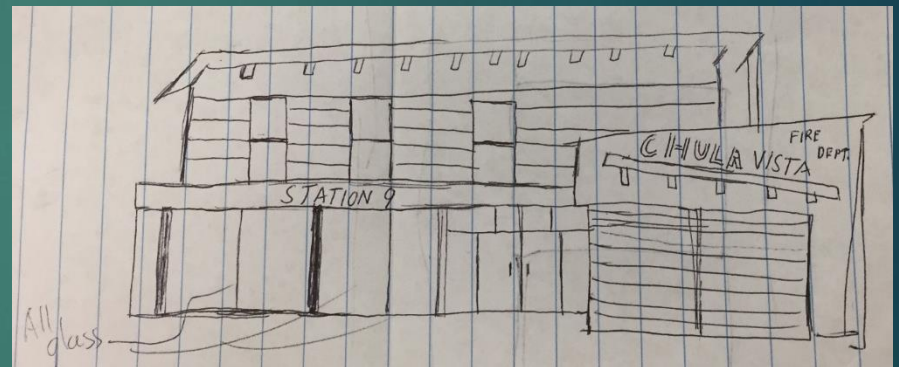


# ARCHITECTURE RESEARCH

- Researched architectural styles for Fire Stations
- Sketched a concept
- Understood neighborhood context



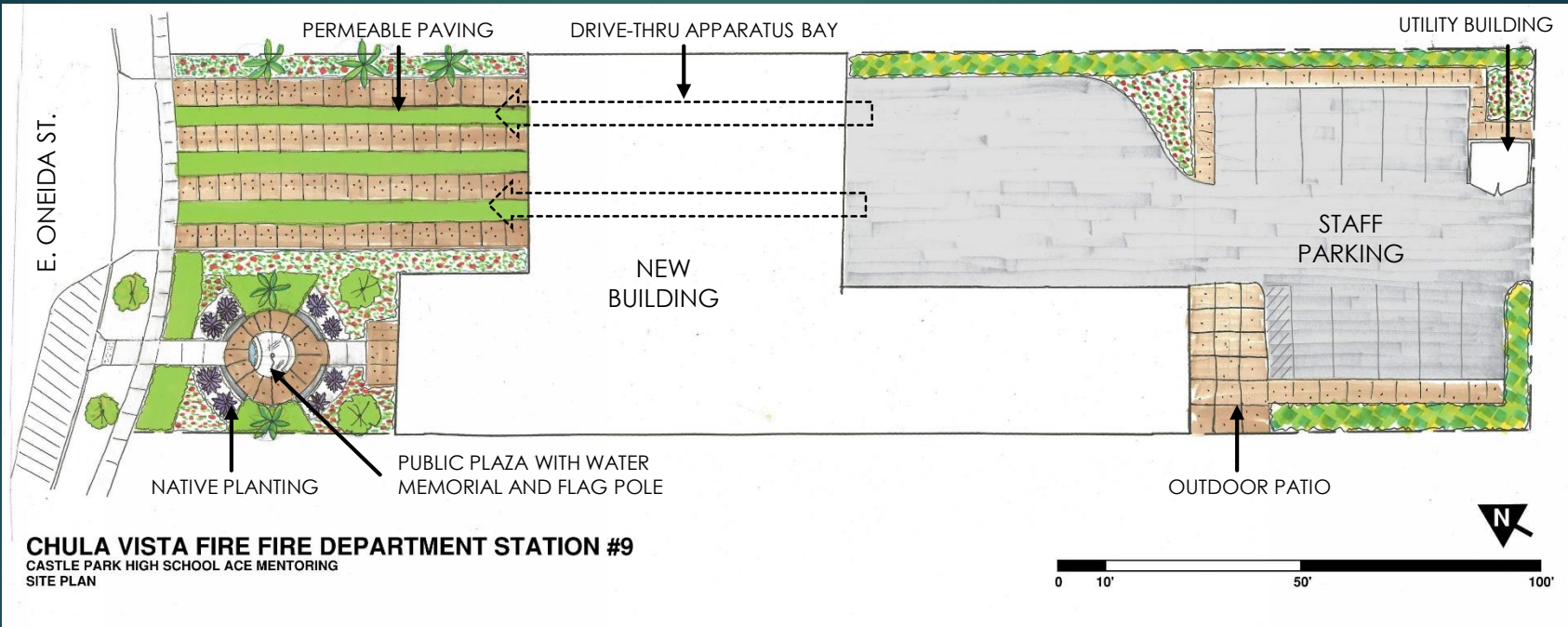
Early Sketch



Current Site - Neighborhood



# SITE PLAN



Landscape Plants



Water Memorial



Permeable Paving





# INTERIOR PLANNING

- Brainstormed spaces
- Developed a program
- Studied spatial adjacencies



**CHULA VISTA FIRE STATION #9**  
 Castle Park HS ACE Mentoring  
 Program Summary

	Space	Area	# of Space	Total
<b>Apparatus / Support Areas</b>				
A1	Apparatus Room	2,500	1	2,500
A2	Gear Storage	250	1	250
A3	Telephone & Data Storage	50	1	50
A4	Hose Storage	50	1	50
A5	Air Compressor/Water Heater	50	1	50
A6	Electrical Storage	50	1	50
		Subtotal		2,950

<b>Office and Work Areas</b>				
B1	Lobby	100	1	100
B2	Office	100	1	100
B3	Open Office	200	1	200
B4	Front Desk	100	1	100
B5	Public Restroom	70	1	70
B6	Training/Conference	300	1	300
		Subtotal		870

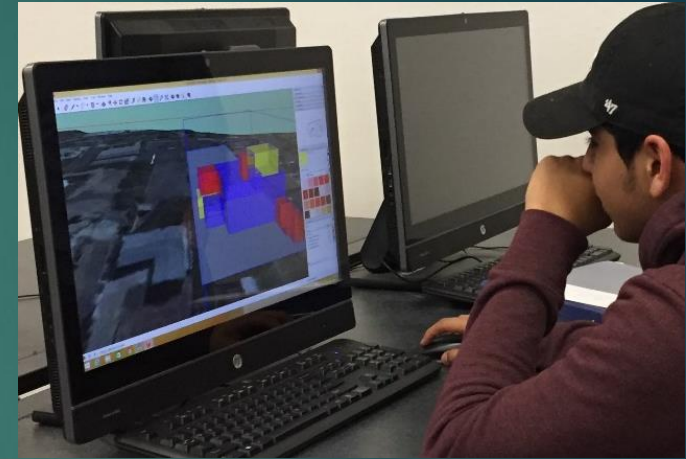
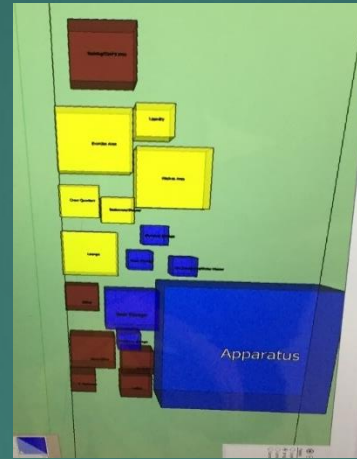
<b>Living Area</b>				
C1	Kitchen & Dining Area	400	1	400
C2	Lounge	250	1	250
C3	Exercise Room	400	1	400
C4	Crew Quarters	120	10	1200
C5	Crew Bathroom RR/Shower	80	5	400
C6	Laundry	100	1	100
		Subtotal		2,750

<b>Total Net Assignable Square Footage</b>	<b>6,570</b>
Circulation/Mechanical/Walls (25%)	1,643
<b>Total Gross Square Footage</b>	<b>8,213</b>

- Site Requirements:**
- Minimum Staff Parking: 10 +1 ADA
  - Minimum Visitor Parking: 2 +1 ADA
  - 65' min. straight driveway for apparatus in front of station
  - 50' min. outside turning radius for drives
  - Exterior trash bin enclosure accessible from the street
  - Exterior patio adjacent to living areas
  - Pedestrian access from the sidewalk
  - Public art/monument
  - 10% minimum of total site area dedicated to planted area for storm water treatment

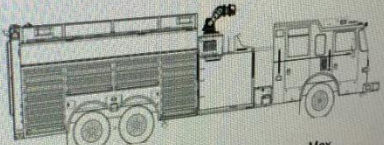
# INTERIOR PLANNING

- Learned Google SketchUp
- Developed 3D models
- Analyzed equipment sizes to size the apparatus bay

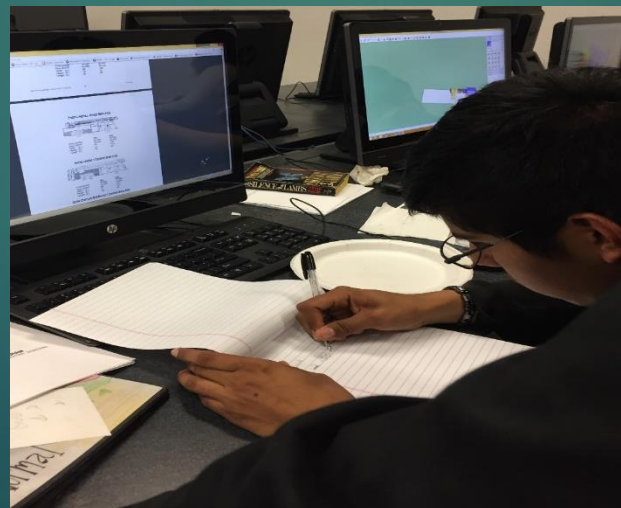


Front GAWR	Min 20,000	Max 24,000
Rear GAWR	24,000	31,000
Width (in.)	98	100
Height (ft.)	10	12
Length (ft.)	30	36

**Industrial Foam Pumper – Tandem Rear Axle**



Front GAWR	Min 20,000	Max 24,000
Rear GAWR	40,000	56,000
Width (in.)	98	100
Height (ft.)	10	12
Length (ft.)	36	40



# ARCHITECTURE

Jesus  
Gonzalez



# ARCHITECTURE

Jesus  
Gonzalez



# ARCHITECTURE

Jesus  
Gonzalez



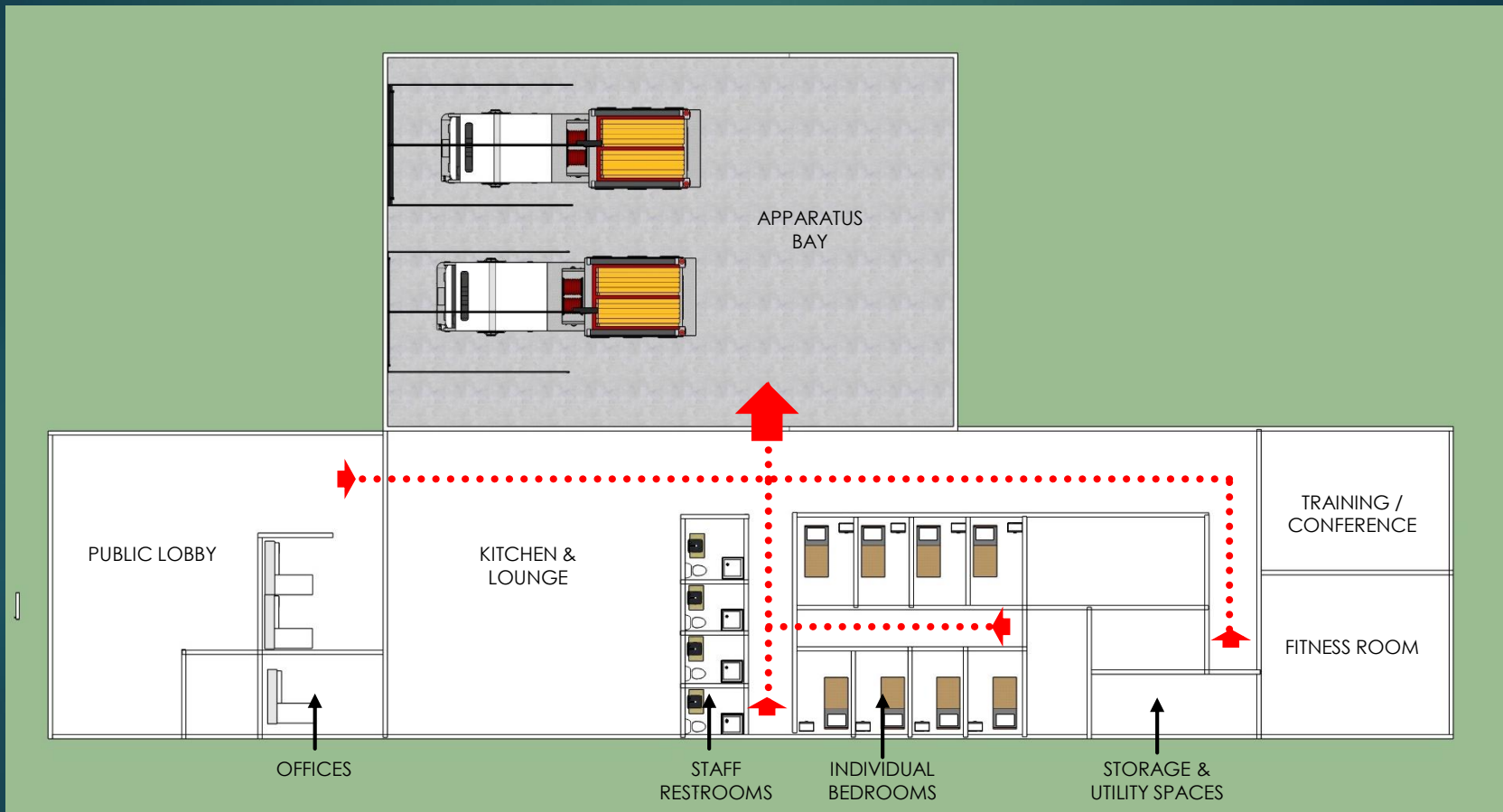
# ARCHITECTURE

Jesus  
Gonzalez



# INTERIOR

Dominic Alcorn

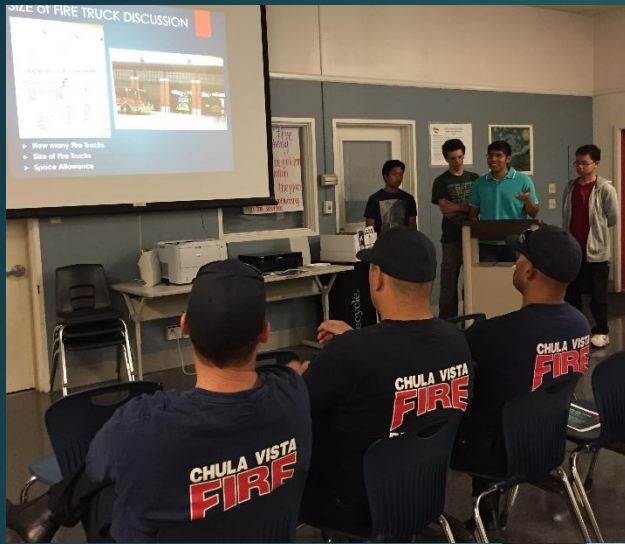


# INTERIOR

Dominic  
Alcorn







Special thanks to  
Chula Vista Mayor Salas for her Inspiration,  
Chula Vista Fire Station 9 for their Guidance  
& Turner's Ballpark Village Jobsite for their Vision.



# Thank You!

To the

# Chula Vista City Council

*We would also like to thank everyone that helped us throughout the year!*

*Turner Construction Company  
LPA Inc.*

*McParlane & Associates  
Castle Park High School Staff*