

#### WHY STEM



#### **FOUNDATIONAL TENETS**

- 1 Quality
  Provide high level of STE
  - Provide high level of STEM teaching and learning.
- Ensure equitable Access and Success for ALL students at the Riverside STEM High School.
- Offer a variety of interdisciplinary STEM areas of study with capstone projects and industry certification.
- Partnerships
  Create a STEM Partnership Forum to facilitate robust partnerships with higher education, business and industry.
- STEM Ambassadors

  Ensure all students graduate with strong STEM knowledge, develop into socially responsible citizens and cultivate a joy of learning.

BENEFITS OF A STEM HIGH SCHOOL

# **STEM**PATHWAYS









Environmental/Agricultural Science



Bio-Medical/Allied Health



Engineering & Advanced Manufacturing



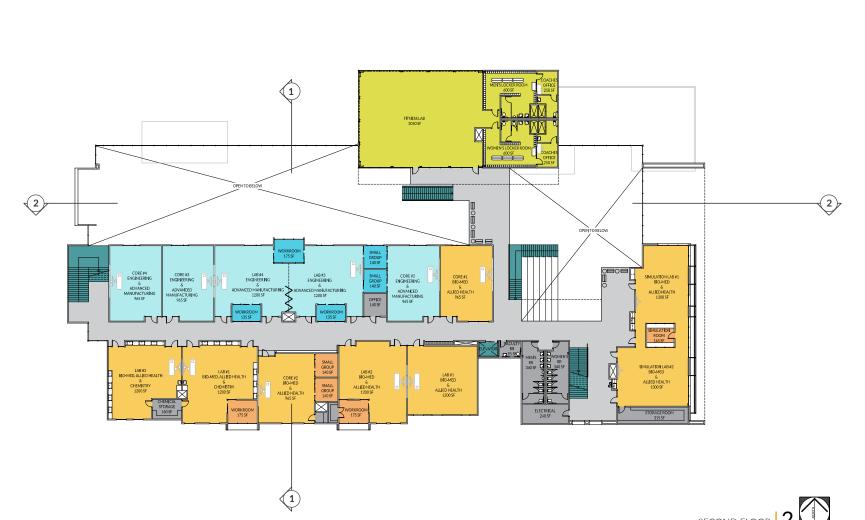
### CONCEPTUAL FLOOR PLAN: 1ST FLOOR





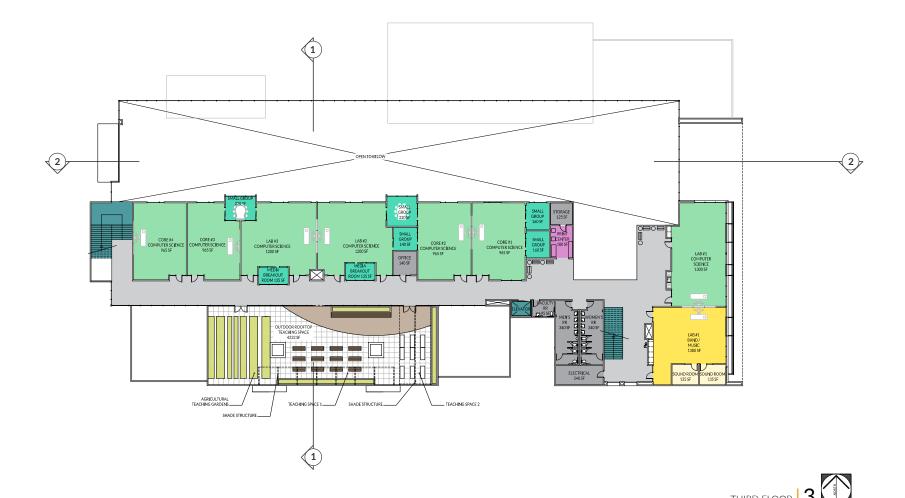


### **CONCEPTUAL FLOOR PLAN:** 2ND FLOOR



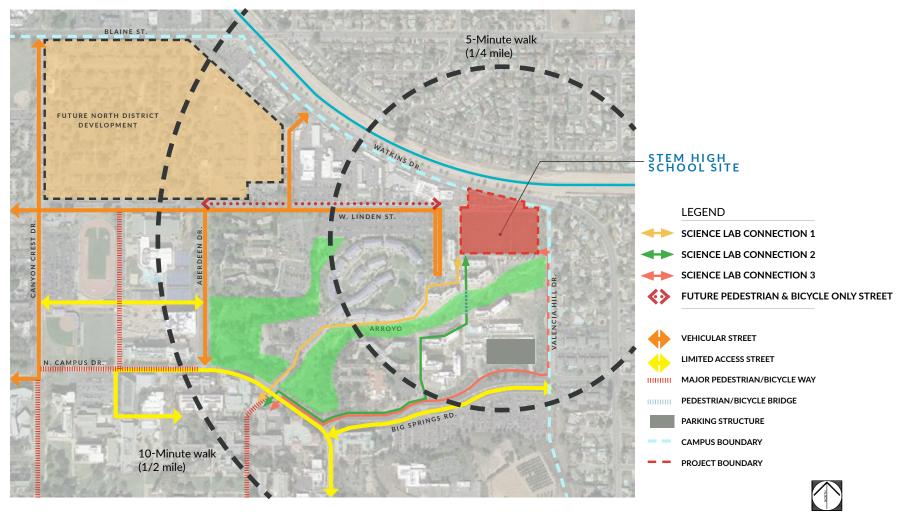


## **CONCEPTUAL FLOOR PLAN:** 3RD FLOOR





# **CONTEXT** DIAGRAM





# **CONTEXT:**SITE IMAGES















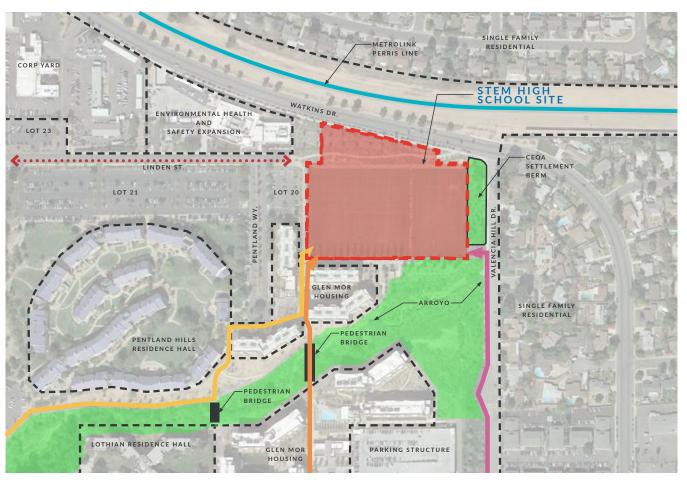
GLEN MOR HOUSING 5

GLEN MOR HOUSING 6



# **CONTEXT:**SITE PLAN







SCIENCE LAB CONNECTION 1

SCIENCE LAB CONNECTION 2

◆ SCIENCE LAB CONNECTION 3

FUTURE PEDESTRIAN & BICYCLE ONLY STREET

PROJECT BOUNDARY





# **CONTEXT:**STREET TREE DIAGRAM



LINDEN ST. PALM TREE LINED AXIS  $\,|\,1$ 





# **SITE** PROGRAM

#### **LEGEND**

ENTRY & ARRIVAL

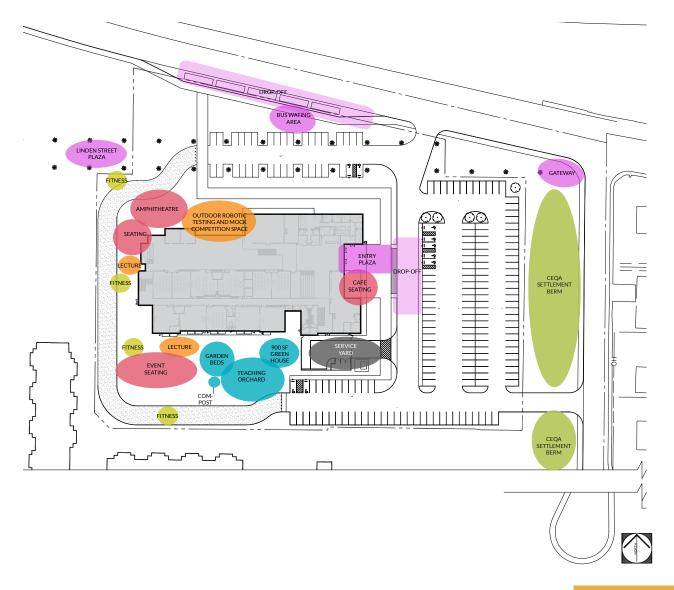
STEM COMMUNAL SPACE

LECTURE / EDUCATION SPACE

RECREATION / FITNESS

AGRICULTURAL PROGRAM

CEQA





#### **LANDSCAPE** INSPIRATIONAL IMAGES







**EVENT AND SCHOOL GATHERING SPACE** 



**OUTDOOR ASSEMBLY SEATING** 



FITNESS & RECREATION



RAISED GARDEN BEDS



**ENGINEERING TESTING & ROBOTICS** 



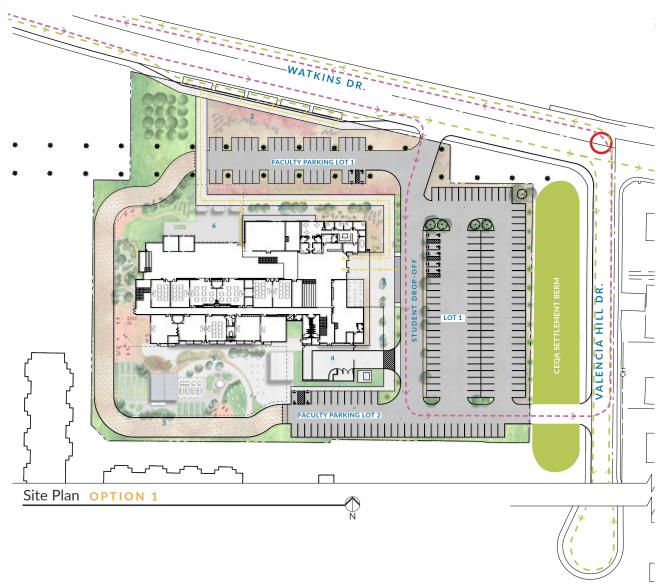
TEACHING ORCHARD



INDOOR/OUTDOOR CLASSROOM

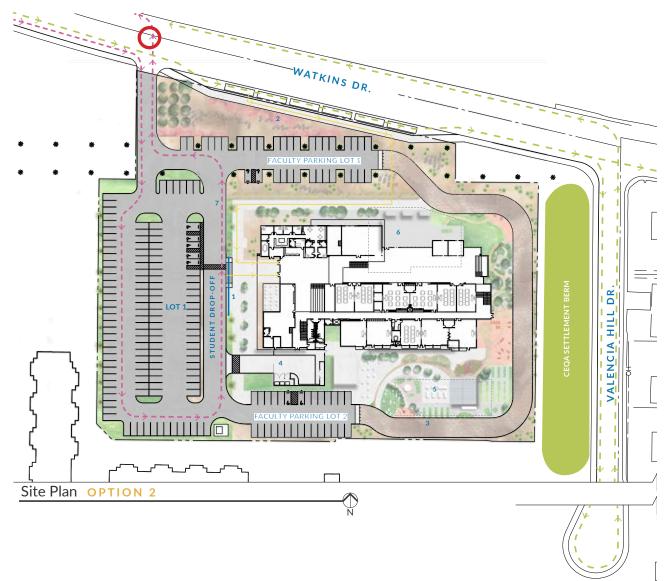


# SITE PLAN OPTION 1



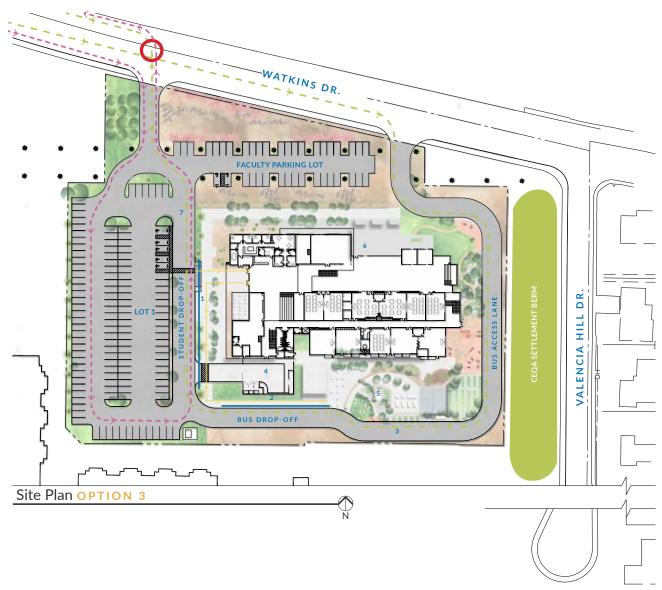


## SITE PLAN OPTION 2





## SITE PLAN OPTION 3





# **CONCEPT 1**BOX SPRINGS MOUNTAINS





Natural mountain terrain, vegetation and trails.

Lush natural landscape in organic arrangements contrasted by clean lined hardscape.



▲ Landscaped mounds alongside hardscape encouraged interaction with the outdoor environment.



A Hard seating nestled into the landscape.



▲ Teaching spaces (amphitheater) carved out and incorporated into the landscape.



# **CONCEPT 2**ARROYO





▲ Natural arroyo landscape.

▲ Site drainage meanders throughout the site, interacting with paths and outdoor teaching spaces.



▲ Drainage clearly expressed and integrated into circulation paths to offer teaching opportunities.



# **LANDSCAPE**PLANTING FRAMEWORK



Entry garden with soft desert textures and colorful accents.



Arroyo creek beds with varied grasses, native shrubs and boulders.



Topographic landforms with textural buffer planting.

Educational fruit and vegetable garden.





# **LANDSCAPE**TREE FRAMEWORK





# LANDSCAPE TREE SELECTION







Acacia Podalyriifolia



Citrus Sinensis



Washingtonia Robusta (Hybrid)



Arbutus Marina



Quercus Agrifolia



Tipuana Tipu



Platanus Racemosa



#### **LANDSCAPE** UNDER STORY PLANTING







Muhlenbergia Dubia



Aloe



Agave 'Blue Glow'



Yucca Filamentosa



Anigozanthos 'Bush Sunset' Senecio Serpens





**ARROYO** 



Carex Divulsa



Chondropetalum Tectorum



Dietes Bicolor



Lantana 'Gold'



Muhlenbergia Linheimerii



LANDFORMS & BUFFER



Baccharis Pilularis 'Twin Peaks'



Festuca Mairei



Salvia Pozo 'Blue'



Rosmarinus Officinalis 'Tuscan Blue'



Rhamnus Umbulata 'Minor'



# SITE

#### **COMPARISON**

#### Current



#### **Future**





Direct light and glare spill from lights will be contained on the site.



Noise

Limited noise impacts from outdoor activities except for limited hours of the day on North and South side of the building.

Nighttime noise should be virtually eliminated.



Traffic

Through traffic will bypass school because of school zone speed limits.

Signalized intersection will make for safer traffic movements in and around school zone.



# **CONCEPTUAL RENDERING**EXTERIOR





# CONCEPTUAL RENDERING MAIN ENTRANCE





# **CONCEPTUAL RENDERING**EXTERIOR





# CONCEPTUAL RENDERING INTERIOR

