

CURRENT CHALLENGES	WHY CONSOLIDATE	POTENTIAL PARTNERS	STAKEHOLDERS INVOLVED WITH CDC
<ul style="list-style-type: none"> • Located in inundation zones • Aging facilities • Private property leases • Lack of infrastructure 	<ul style="list-style-type: none"> • Central location • Increase integration between agencies • Decrease cost • Modern and secured facilities 	<ul style="list-style-type: none"> • Federal • State • County • Private Sector 	<ul style="list-style-type: none"> • HTDC • OETS • HFD • HPD • SHERRIFF • DPS • HIANG • YOUTH CHALLENGE • EMS

BACKGROUND

FIRST RESPONDERS TECH CAMPUS



CONSOLIDATE the state and city's emergency responders and data center into a central location.

STRENGTHEN and **COORDINATE** public safety

ENGAGES PARTNERSHIPS that are independent of urban Honolulu

REDUCE cost for development, maintenance, and repair by agencies sharing facilities

PROVIDE Central Oahu residents to Live, Learn, Work, and Play within their community

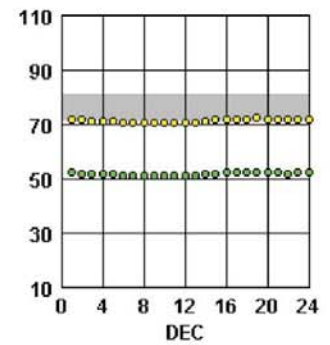
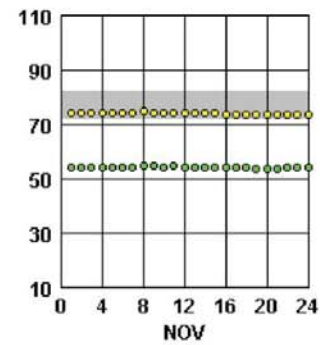
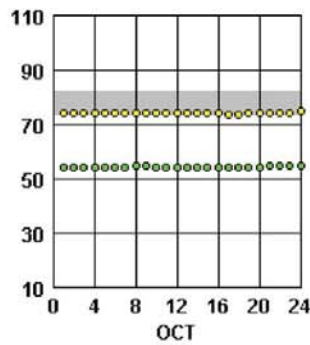
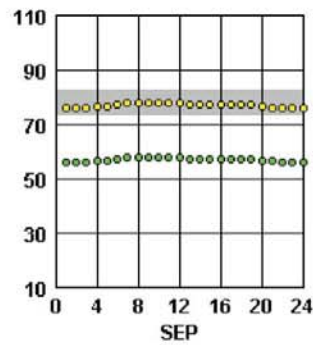
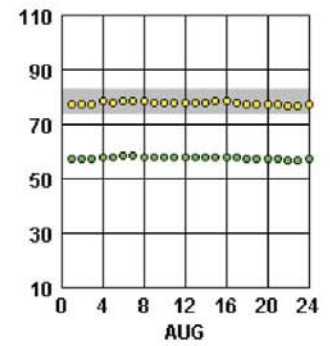
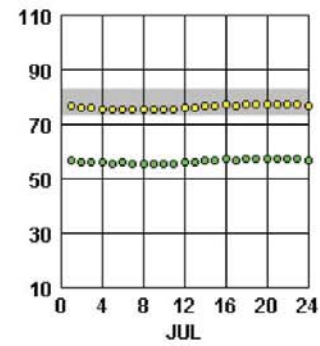
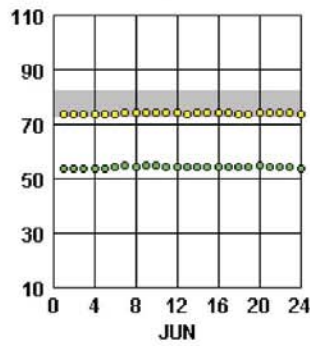
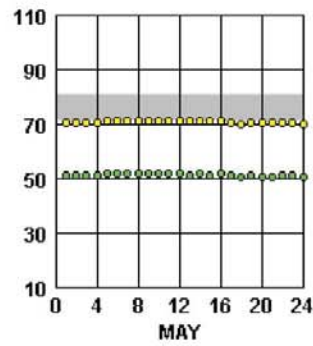
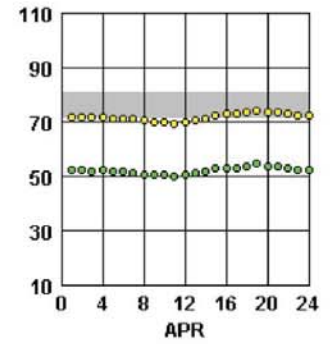
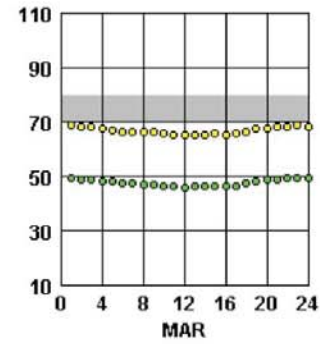
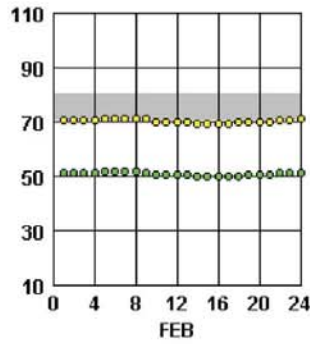
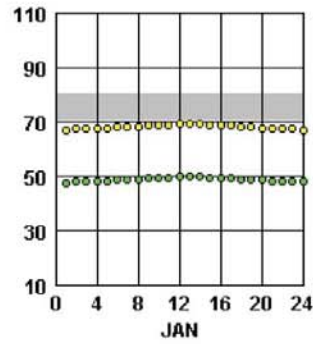
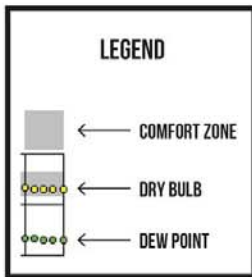
PROTOTYPE a new model for resilience planning amongst departments

ENVISION a highly sustainable campus design, based on worst case isolation and cut-off scenarios

OBJECTIVES

FIRST RESPONDERS TECH CAMPUS

MILILANI
 ELEVATION: 837 FT
 LATITUDE / LONGITUDE: 21.48°N, 158.03°W



DRY BULB & DEW POINT TEMPERATURES (DAILY AVERAGES)

FIRST RESPONDERS TECH CAMPUS

WINTER SOLSTICE

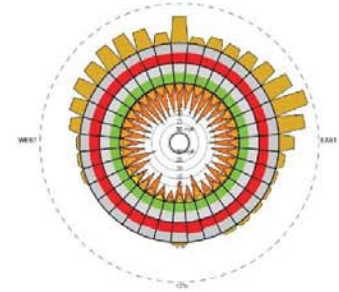
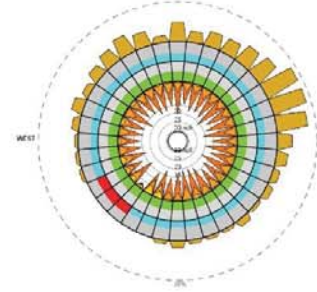
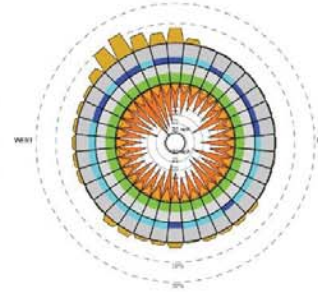
FALL/SPRING EQUINOX

SUMMER SOLSTICE

MILILANI

ELEVATION: 837 FT

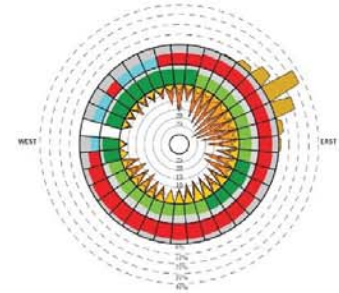
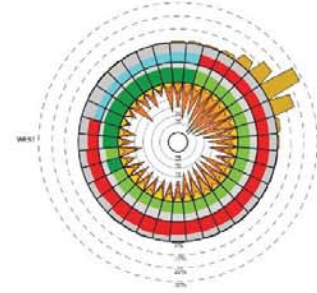
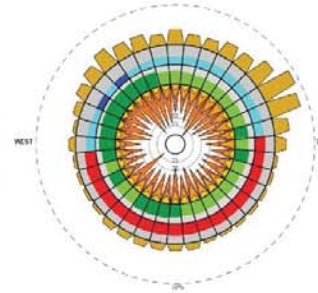
LATITUDE / LONGITUDE: 21.48°N, 158.03°W



HONOLULU

ELEVATION: 6 FT

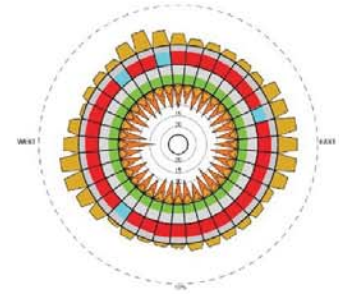
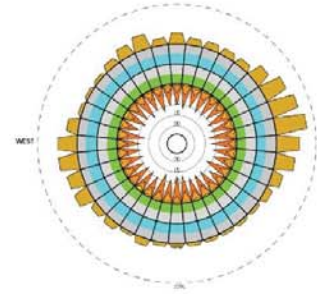
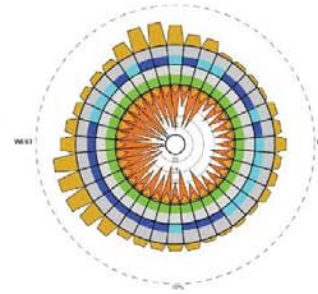
LATITUDE / LONGITUDE: 21.32°N, 157.93°W



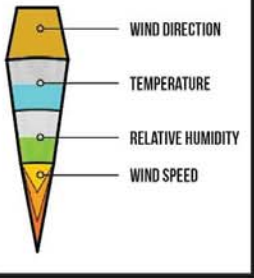
SCHOFIELD BARRACKS

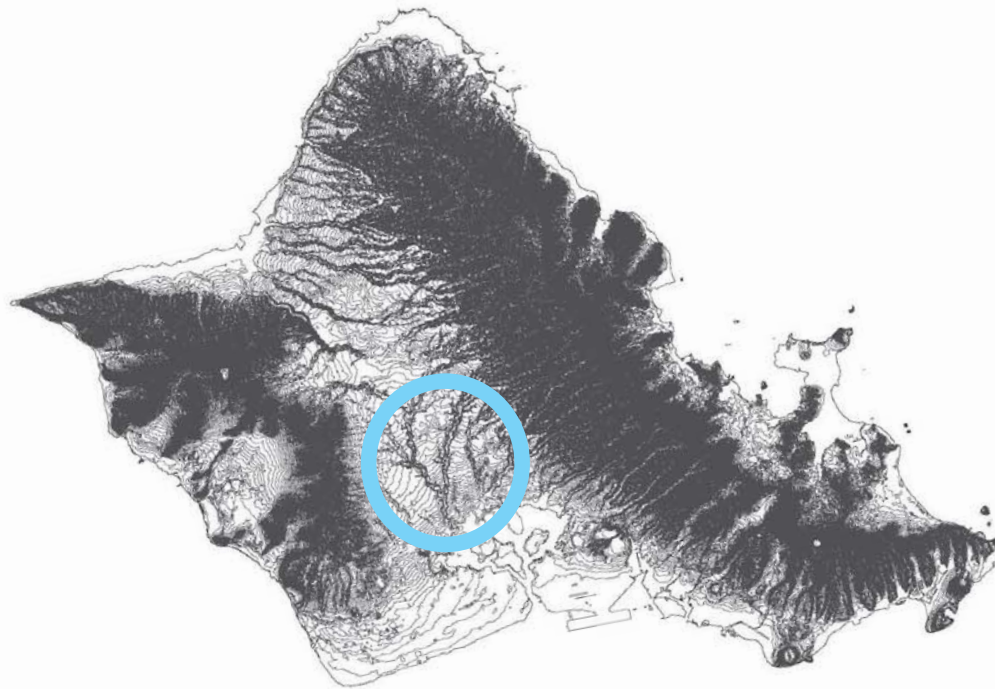
ELEVATION: 979 FT

LATITUDE / LONGITUDE: 21.5°N, 158.08°W



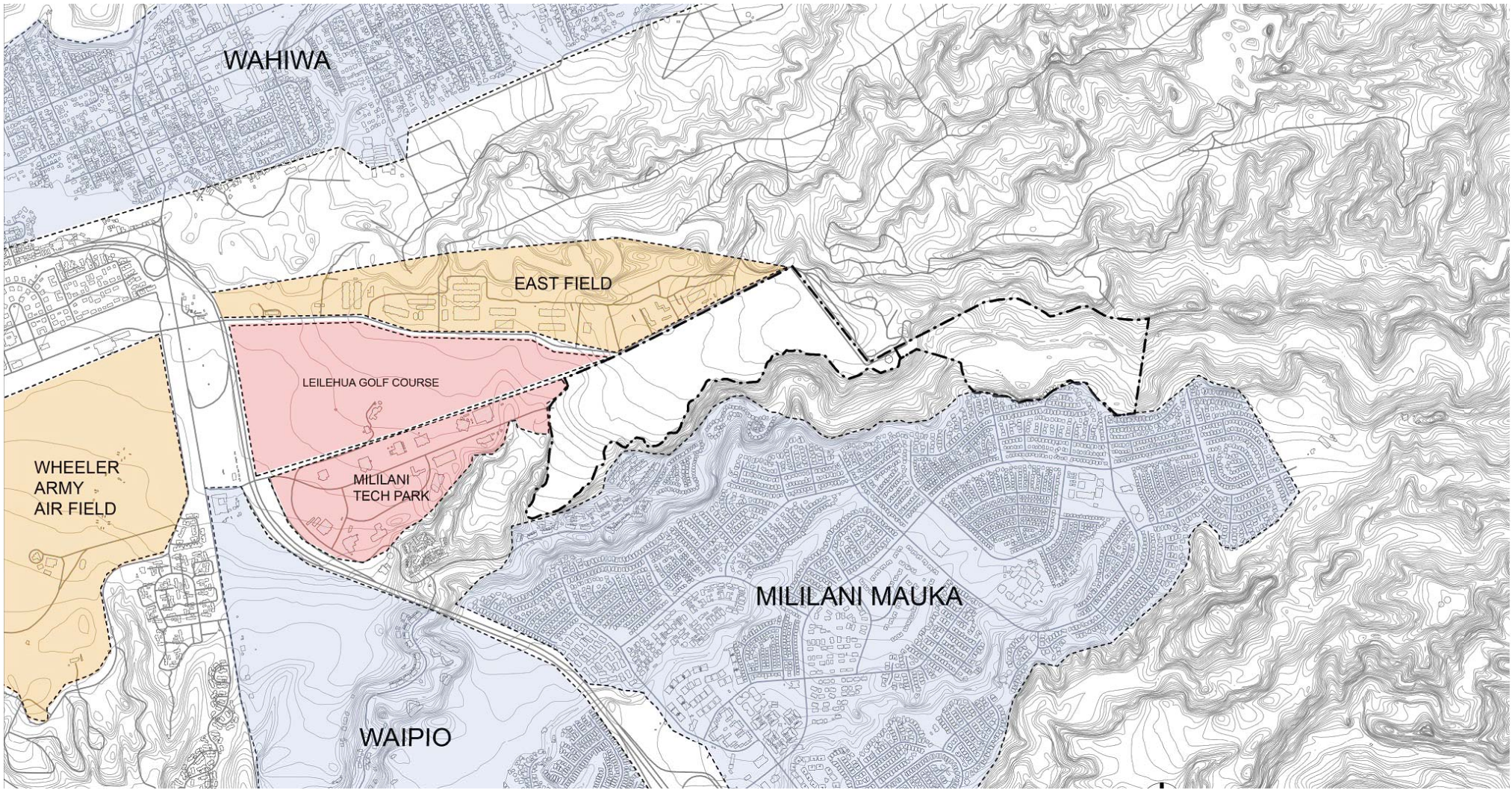
LEGEND





MILILANI TECH PARK - SITE

FIRST RESPONDERS TECH CAMPUS



SURROUNDING AREAS

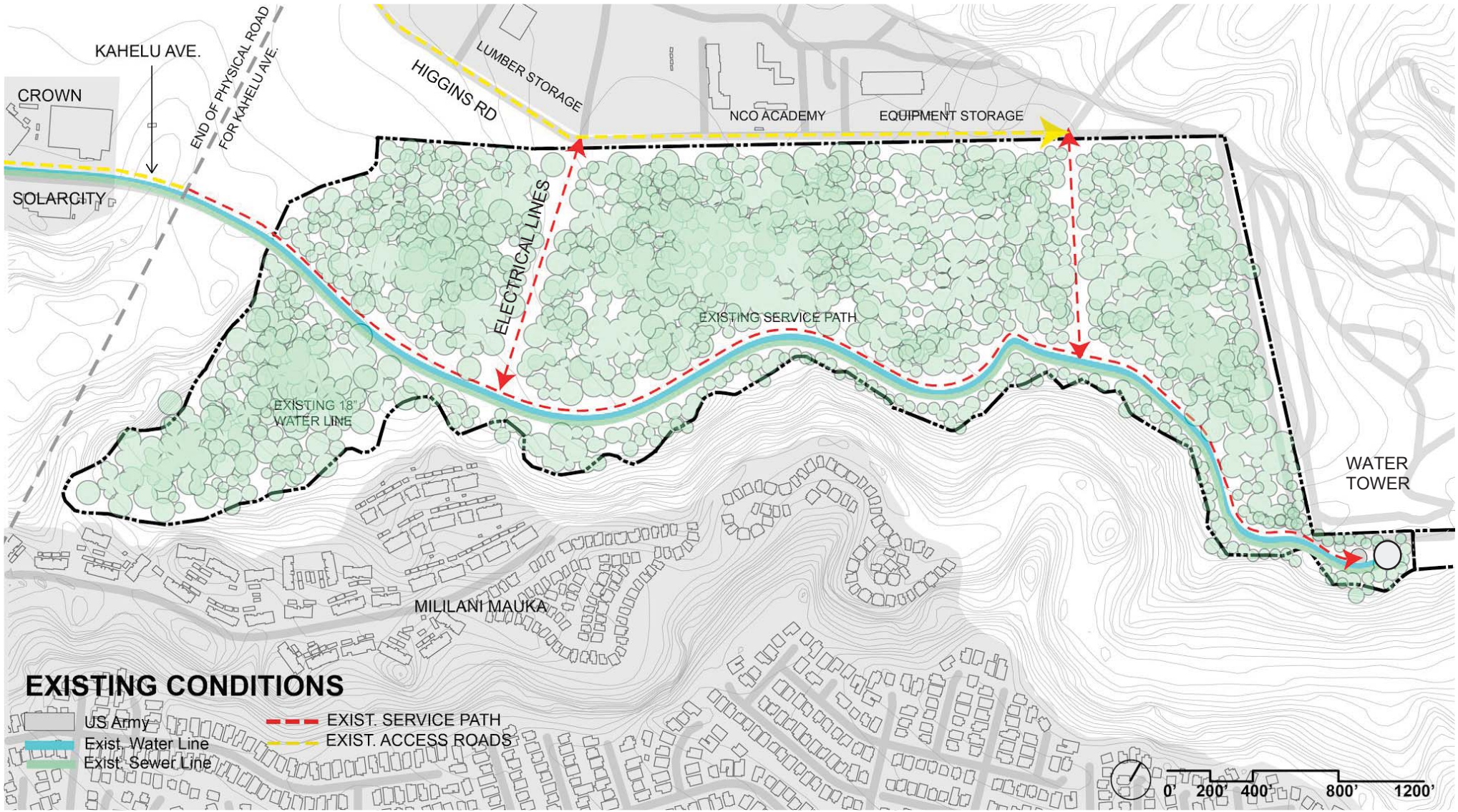
FIRST RESPONDERS TECH CAMPUS



MILILANI TECH PARK - 150 ACRE PARCEL + 94 ACRE ADD

FIRST RESPONDERS TECH CAMPUS





EXISTING CONDITIONS

FIRST RESPONDERS TECH CAMPUS



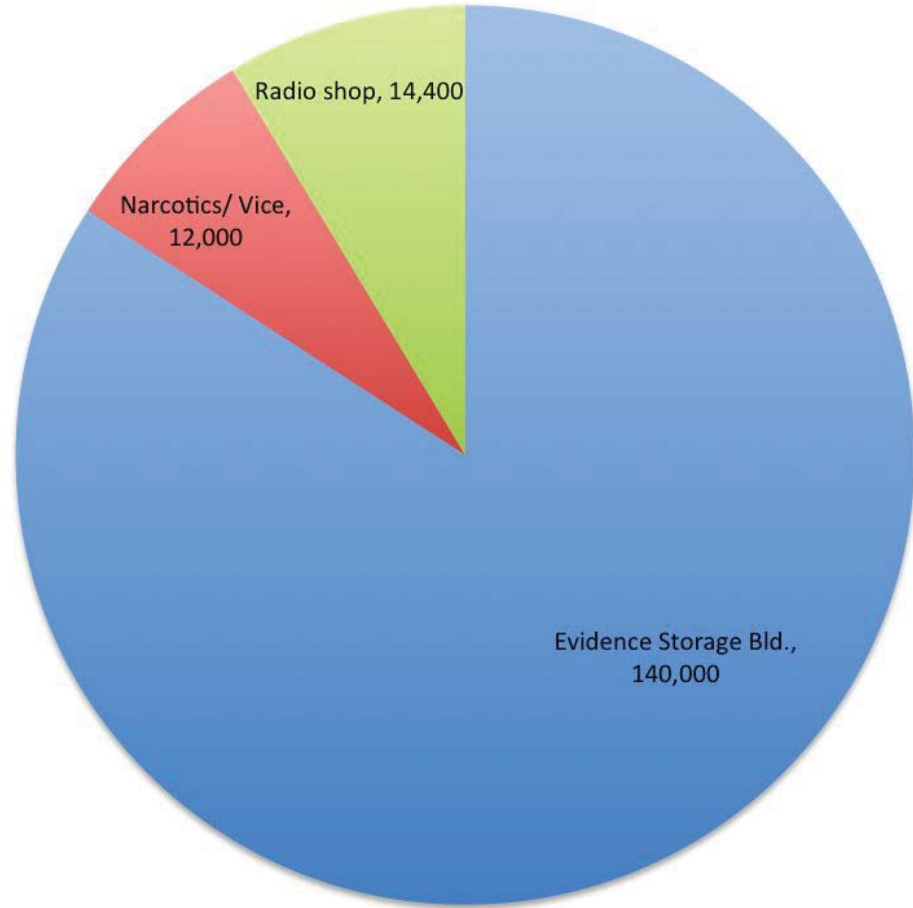


LISTENING WORKSHOPS
FIRST RESPONDERS TECH CAMPUS

HPD

<u>BUILDING</u>	<u>SQFT</u>
EVIDENCE STORAGE	140,000
NARCOTICS/ VICE	12,000
RADIO SHOP	14,400
TOTAL BLDG. SQFT=	166,400

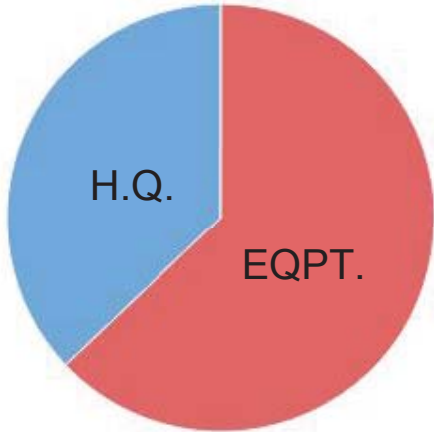
<u>SITE</u>	<u>SQFT</u>
PARKING	36,500
TOTAL SITE SQFT=	36,500
TOTAL BUILT AREA=	202,900



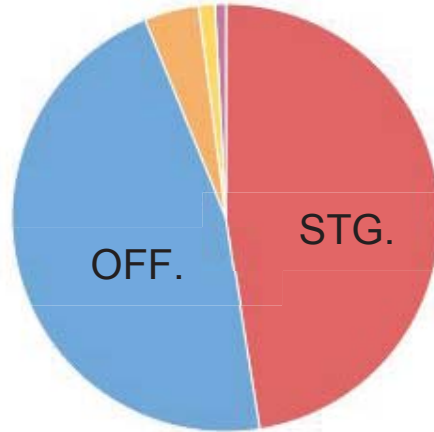
BUILT AREA BREAKDOWN

FIRST RESPONDERS TECH CAMPUS

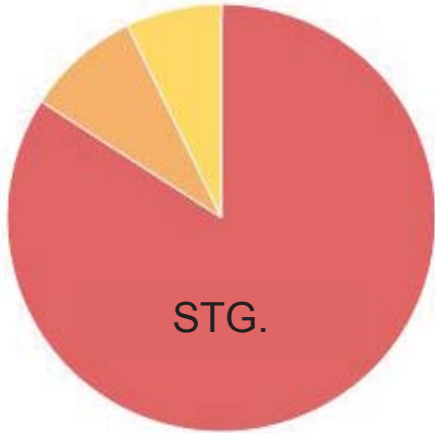
EMS



HFD



HPD



HTDC

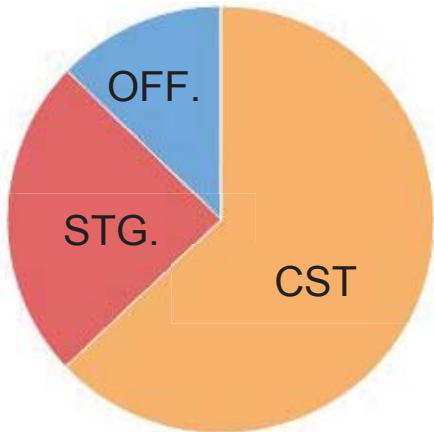


- Storage
- Office / HQ
- Dorm
- Classroom
- Agency Specific

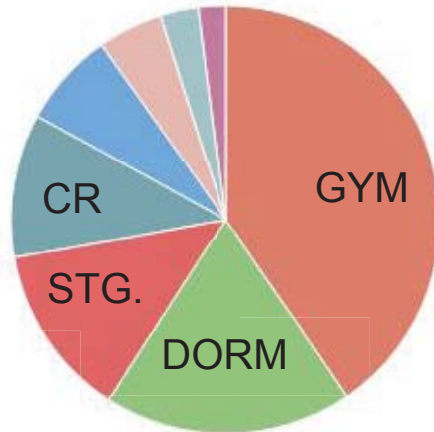
TOTAL AREA

FIRST RESPONDERS TECH CAMPUS

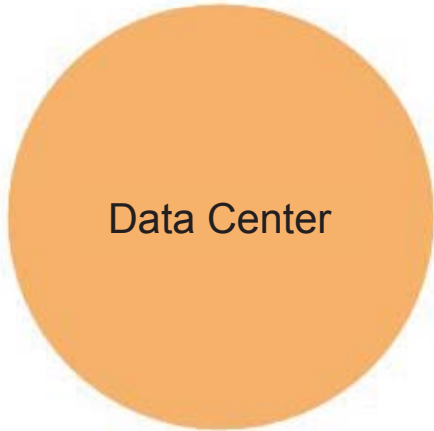
HIANG



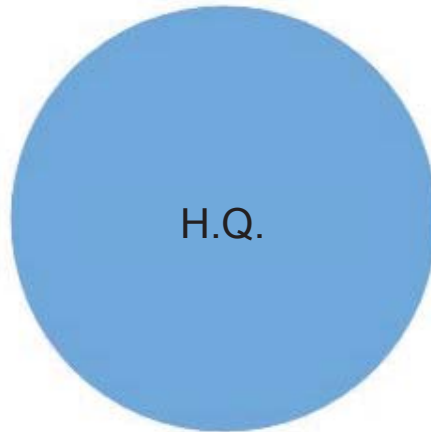
YCA



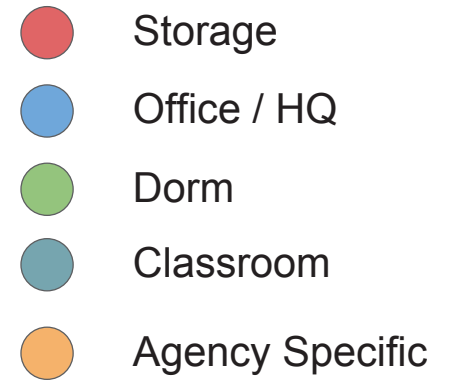
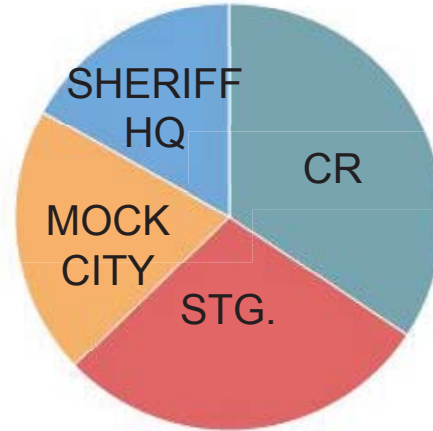
OETS



SHERIFF

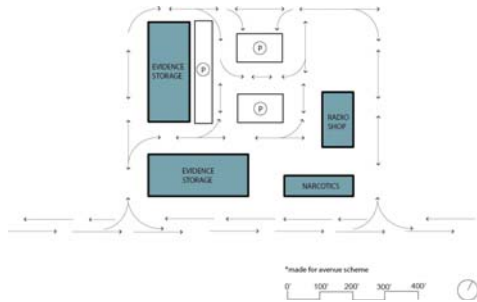


DPS

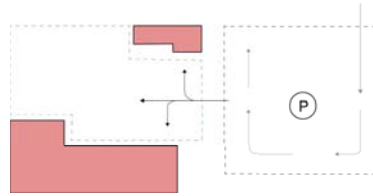


TOTAL AREA

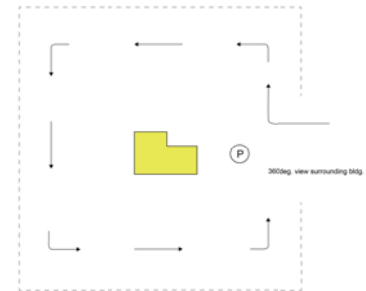
FIRST RESPONDERS TECH CAMPUS



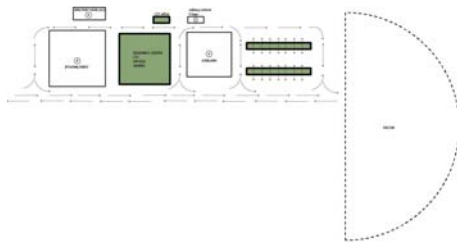
HPD



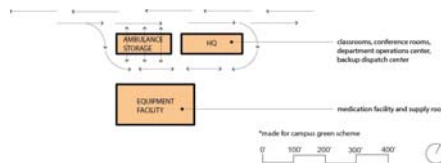
HTDC



OETS



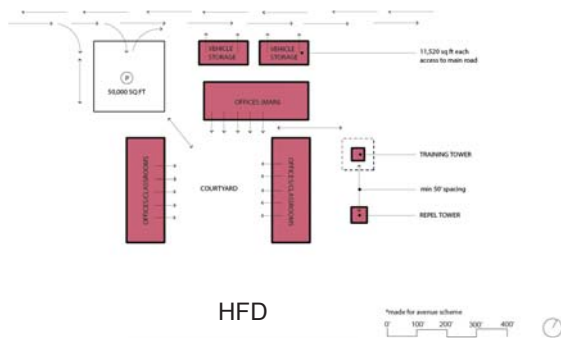
HIANG



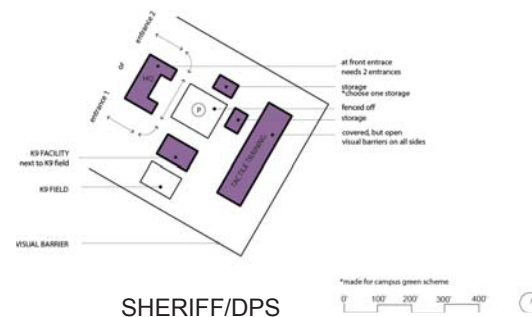
EMS



OETS RADIO TOWER



HFD

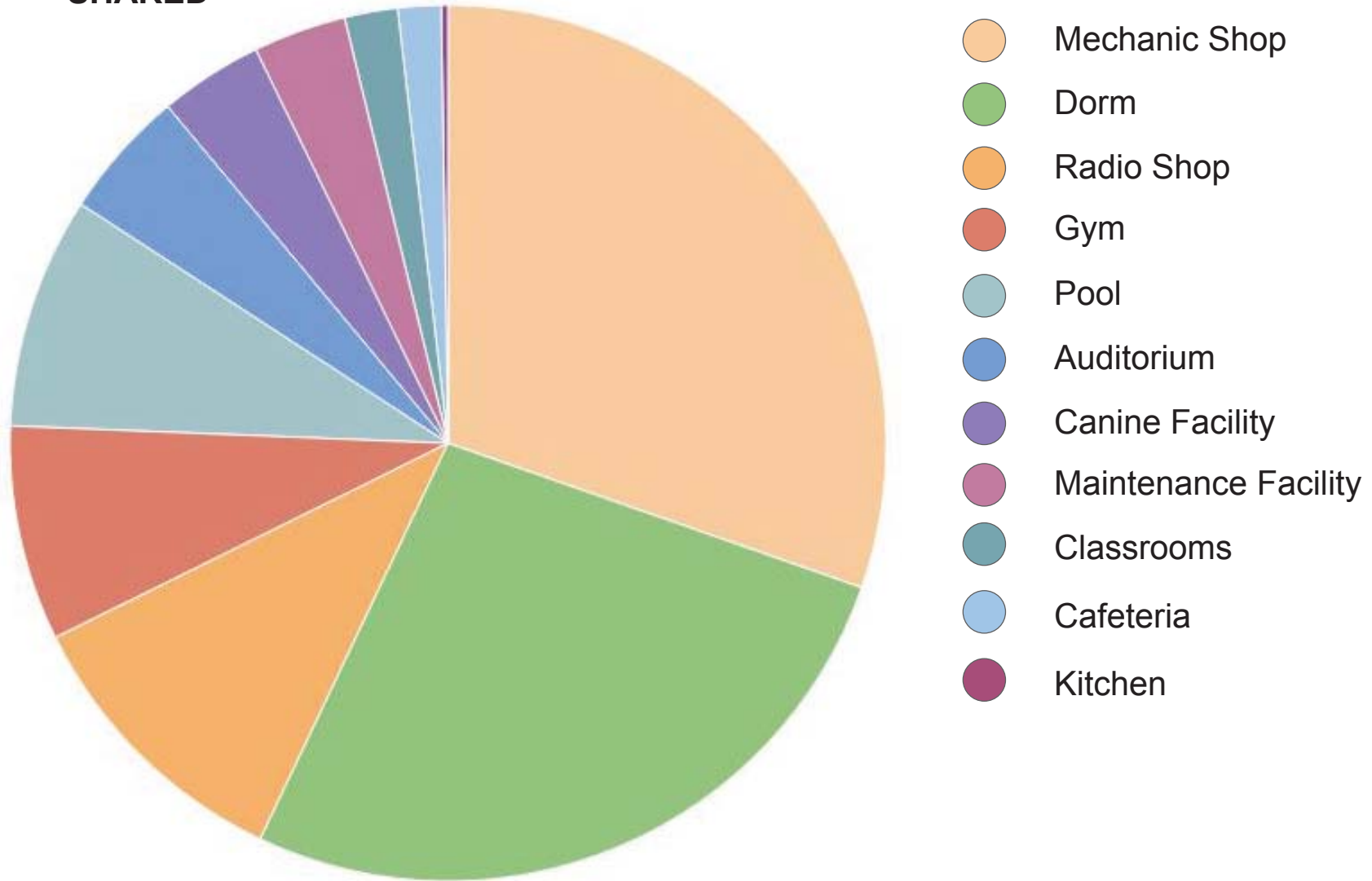


SHERIFF/DPS

AGENCY FLOWS AND ADJACENCY NEEDS

FIRST RESPONDERS TECH CAMPUS

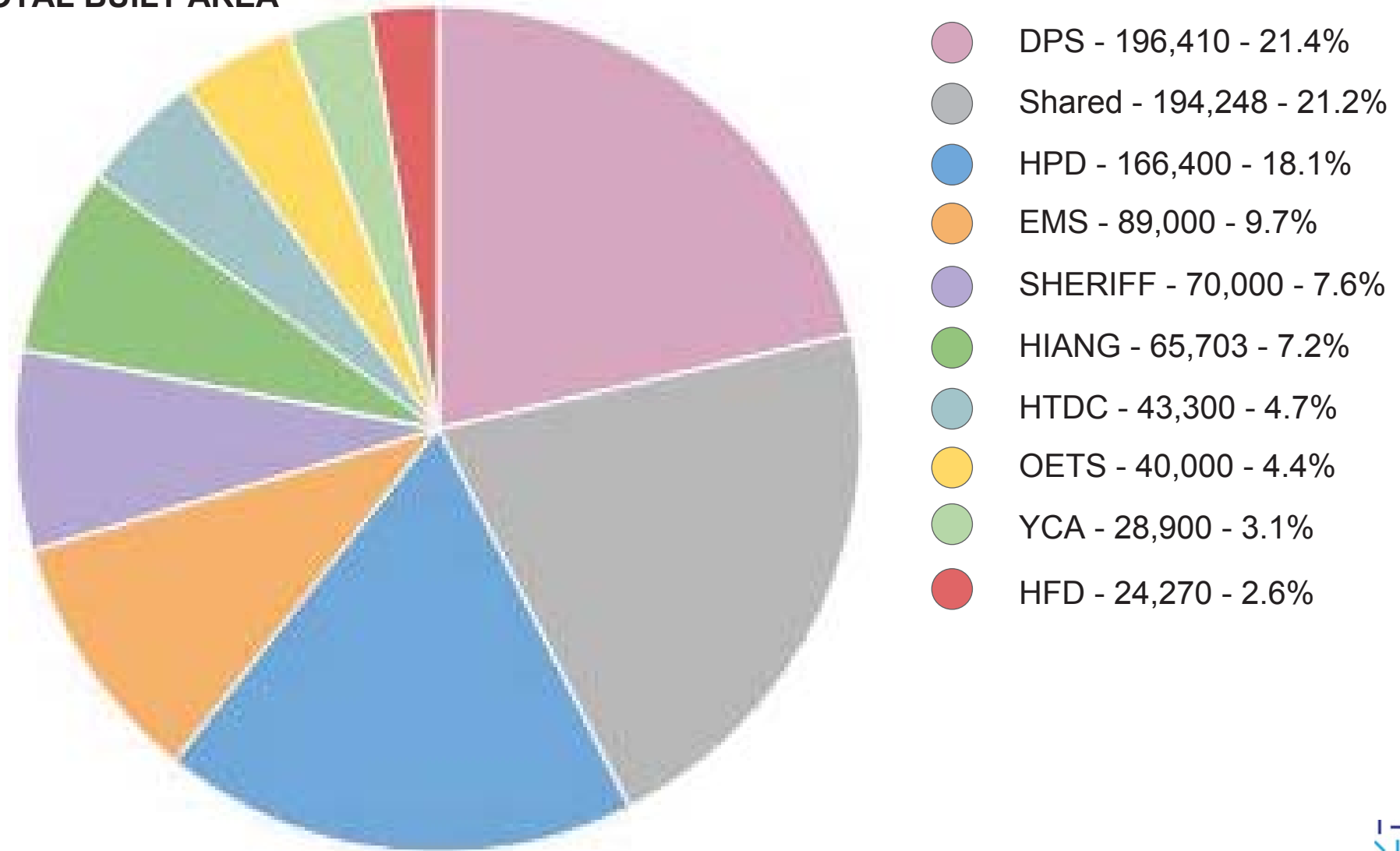
SHARED



TOTAL AREA

FIRST RESPONDERS TECH CAMPUS

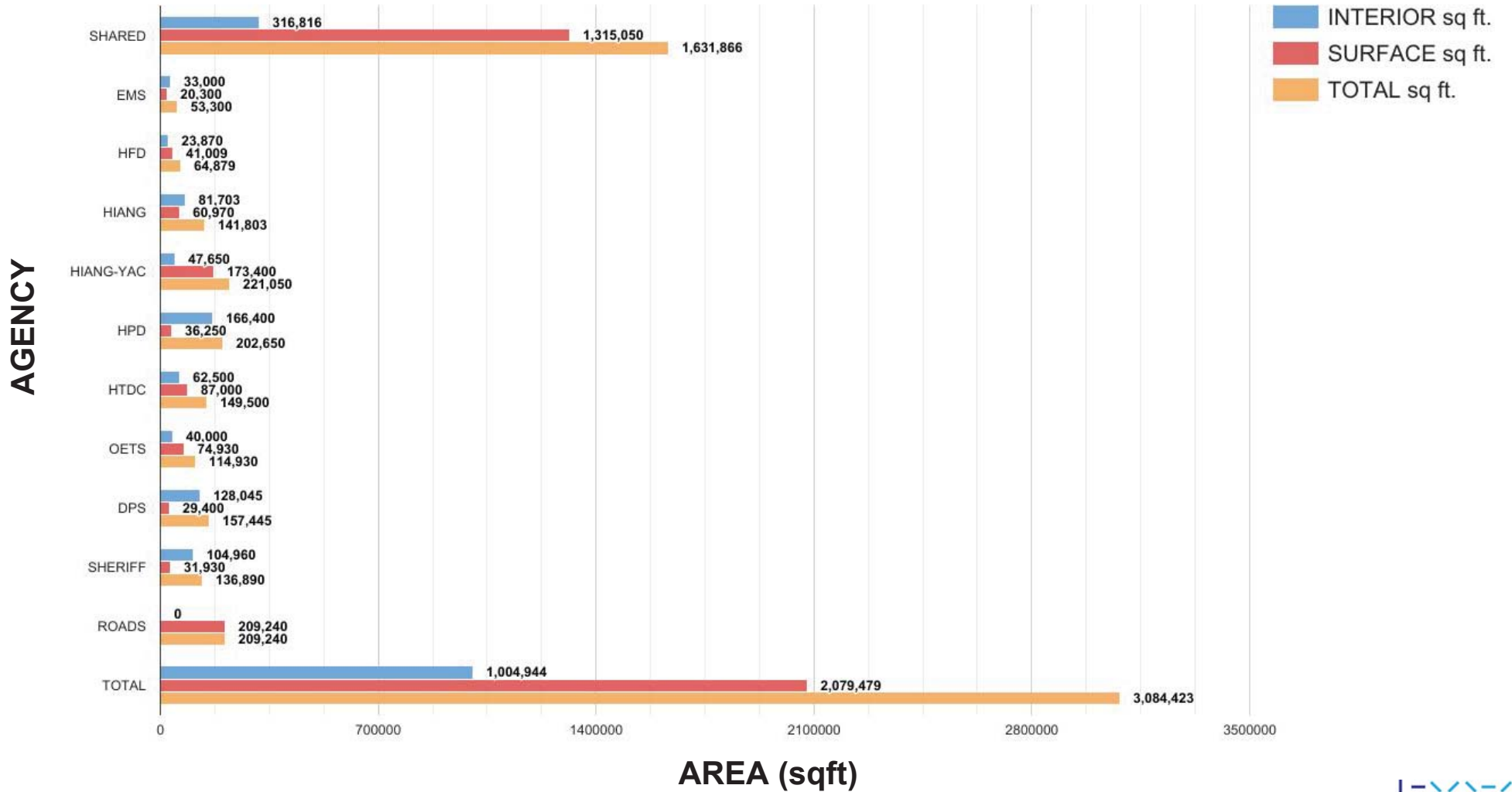
TOTAL BUILT AREA



TOTAL AREA

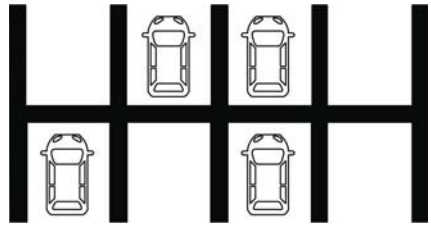
FIRST RESPONDERS TECH CAMPUS

INTERIOR, SURFACE, AND TOTAL SQ FT.

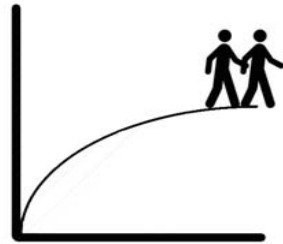


TOTAL AREA

FIRST RESPONDERS TECH CAMPUS



TOTAL REQUESTED
PARKING (INCLUDING 800
SHARED STALLS)
2,245 stalls



F.T.E.
511 (PENDING
CONFIRMATION
WITH DPS)



OCCUPANTS
PEAK CAPACITY
3,479 (PENDING
CONFIRMATION)



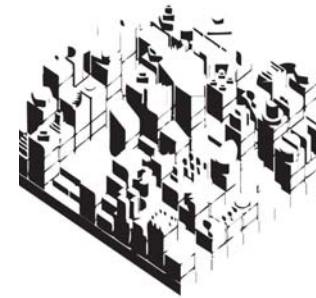
RETENTION
~2 ACRES
RETENTION



TOTAL PROJECTED
BUILDING AREA
1,004,944 sqft



TOTAL PROJECTED
SITE-SURFACE AREA
2,079,479 sqft



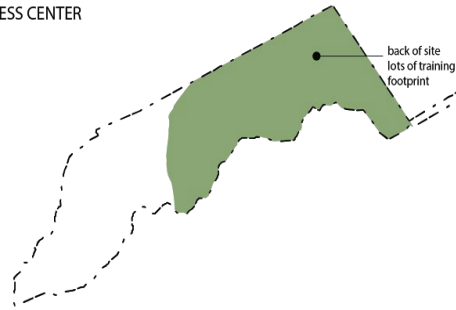
TOTAL BUILT AREA
3,084,423 sqft

TOTAL AREA

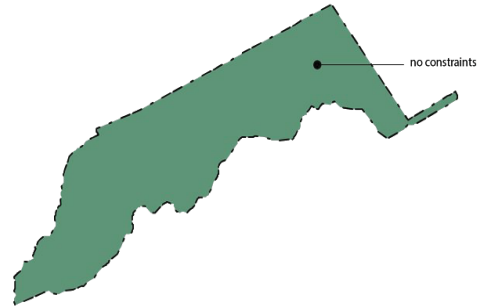
FIRST RESPONDERS TECH CAMPUS

PROPERTY AREAS
SUPPORT ALL
AGENCY SITE AND
PROGRAM
REQUIREMENTS.

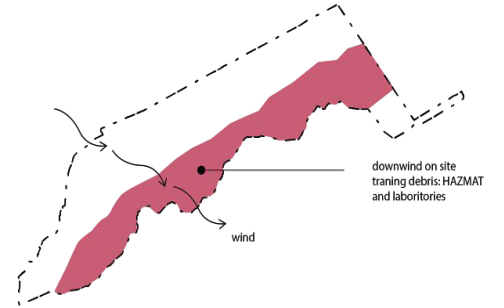
HIARNG
READINESS CENTER



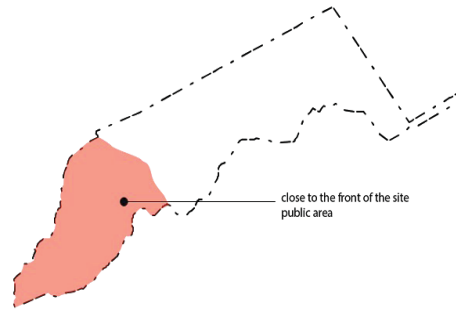
YCA



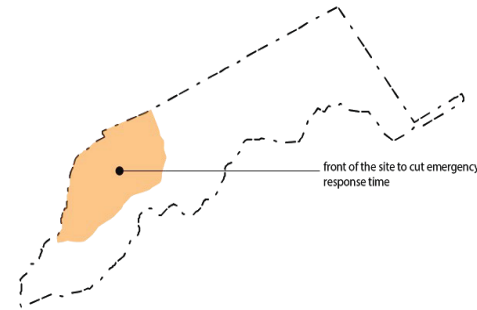
HFD



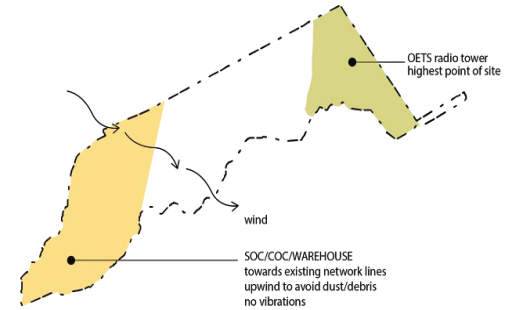
HTDC



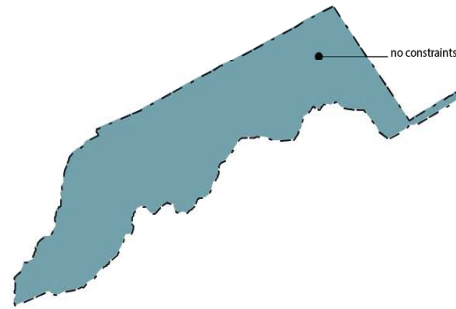
EMS



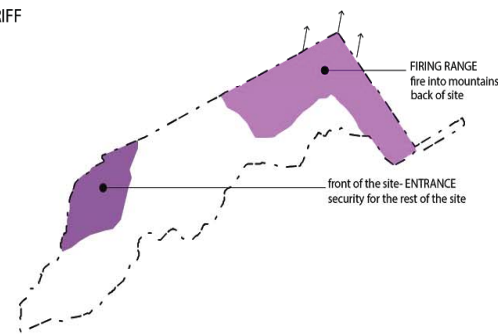
OETS



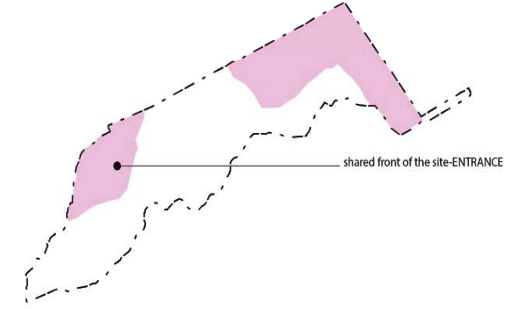
HPD



SHERIFF



DPS



LOCATION BY DEPARTMENT

FIRST RESPONDERS TECH CAMPUS



FRONT

- OETS
- YCA
- EMS
- HFD
- SHERIFF

MIDDLE

- HPD
- YCA
- HIARNG
- HFD

BACK

- HPD
- YCA
- HIARNG
- HFD
- OETS RADIO TOWER
- FIRING RANGE



LOCATION BY DEPARTMENT

FIRST RESPONDERS TECH CAMPUS



PEDESTRIAN MALL

FIRST RESPONDERS TECH CAMPUS



TERRACED OPEN SPACE

FIRST RESPONDERS TECH CAMPUS



GREEN PARKING STRUCTURE

FIRST RESPONDERS TECH CAMPUS



SITE BRANDING

FIRST RESPONDERS TECH CAMPUS



PLAYFUL SITE FURNITURE (OBSTACLE COURSE)

FIRST RESPONDERS TECH CAMPUS



TOWERS AND BRIDGES

FIRST RESPONDERS TECH CAMPUS



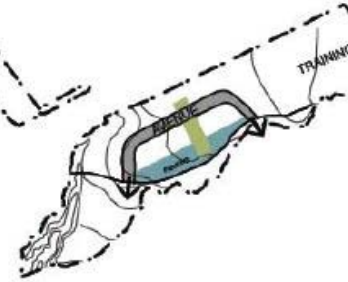
INTERACTIVE IN-BETWEEN SPACES; RECREATIONAL LANDSCAPE (PARK GYM)

FIRST RESPONDERS TECH CAMPUS

CAMPUS GREEN SCHEME



AVENUE SCHEME



PEDESTRIAN MALL SCHEME



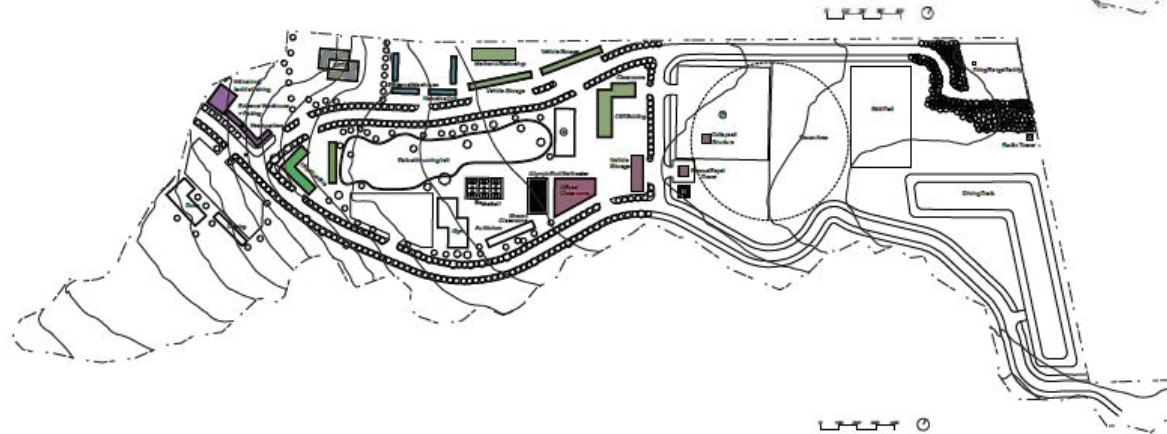
AVENUE SCHEME

- MAIN AVENUE CORRIDOR
- PROGRESSION FROM PUBLIC - PRIVATE



CAMPUS GREEN

- CENTRALIZED GREEN OPEN SPACE
 - COMMUNAL, EDUCATIONAL, RECREATIONAL OPPORTUNITY



SCHEMES

FIRST RESPONDERS TECH CAMPUS

ALL SCHEMES TAKE A MAIN STREET APPROACH.

- PERMEABLE GROUND FLOORS
- PEDESTRIAN SCALED BUILDINGS AND WALKWAYS
- A CONTINUOUS STREET EDGE
- LANDSCAPE THAT HANDLES DRAINAGE

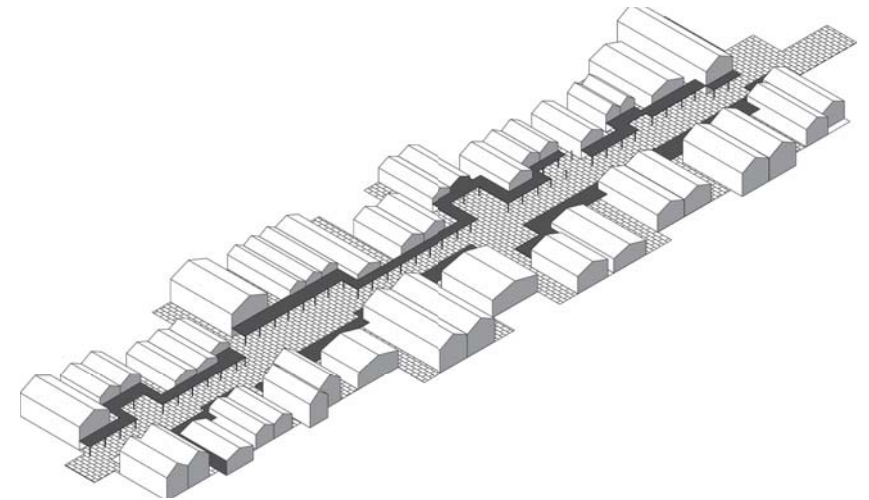


MAIN STREET

FIRST RESPONDERS TECH CAMPUS

PORCH APPROACH

- EACH SPACE IS IN CHARGE OF THEIR OWN FRONTAGE.
- COVERED SPACE BETWEEN THE BUILDINGS AND THE PEDESTRIAN MALL OFFER COVERED LEISURE WALKING AND GATHERING SPACE.
- PORCH CREATES A ENVIRONMENTAL BUFFER FOR WIND AND RAIN
- COMBINATION OF FRONTAGES WILL PROVIDE A DIVERSE BUT INTERWOVEN NEIGHBORHOOD IDENTITY.



PORCH SCHEME

FIRST RESPONDERS TECH CAMPUS

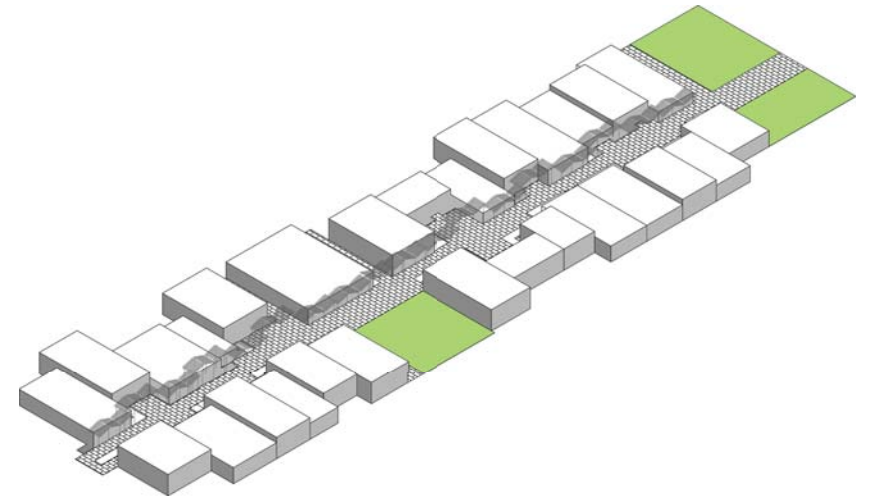


PORCH SCHEME

FIRST RESPONDERS TECH CAMPUS

SUPER TRELLIS APPROACH

- TRELLIS BECOMES INTEGRAL INFRASTRUCTURE OF THE BUILDING CLADDED WITH PV AND ALLOWING FOR WATER CATCHMENT.
- ONE STRUCTURE CREATES A COVERED SPACE THAT SERVES ALL ALL THE DEPARTMENTS AND PROVIDES A LEISURE AND WALKING SPACE IN BETWEEN THE PEDESTRIAN PLAZA AND DEPARTMENT BUILDINGS.
- TRELLIS ALSO BECOMES SHADING, SCREENING, SEATING AREA, EXCERCISE EQUIPMENT, SITE FURNITURE



SUPER TRELLIS SCHEME

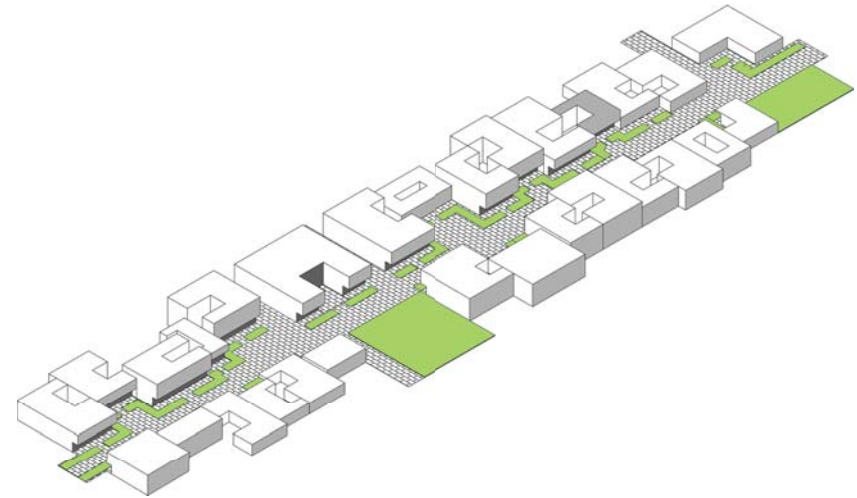
FIRST RESPONDERS TECH CAMPUS



SUPER TRELLIS SCHEME
FIRST RESPONDERS TECH CAMPUS

COURTYARD APPROACH

- MOST AGENCIES CONFIGURED THEIR OPERATIONS AROUND A COURTYARD
- MINIMIZING THE DEPTH OF BUILDINGS TO ALLOW LIGHT AND AIR INTO THE BUILDING TO CREATE HEALTHY WORKING ENVIRONMENTS AND TO REDUCE ENERGY LOADS.
- COURTYARDS ARE ORIENTED TOWARD PARKING TO SOFTEN THE TRANSITION BETWEEN PARKING AND BUILDING

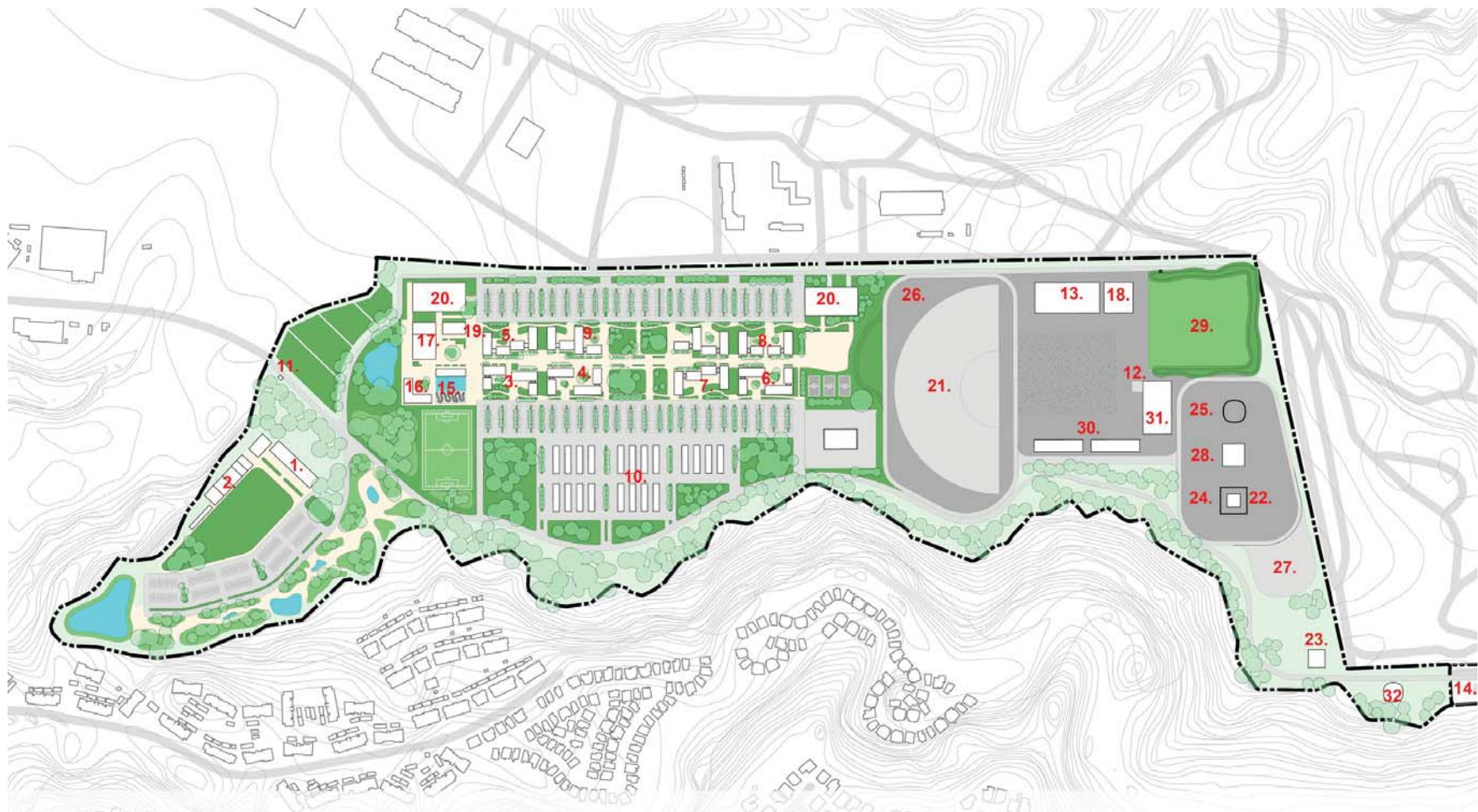


COURTYARD SCHEME

FIRST RESPONDERS TECH CAMPUS



COURTYARD SCHEME
FIRST RESPONDERS TECH CAMPUS



AVENUE SCHEME

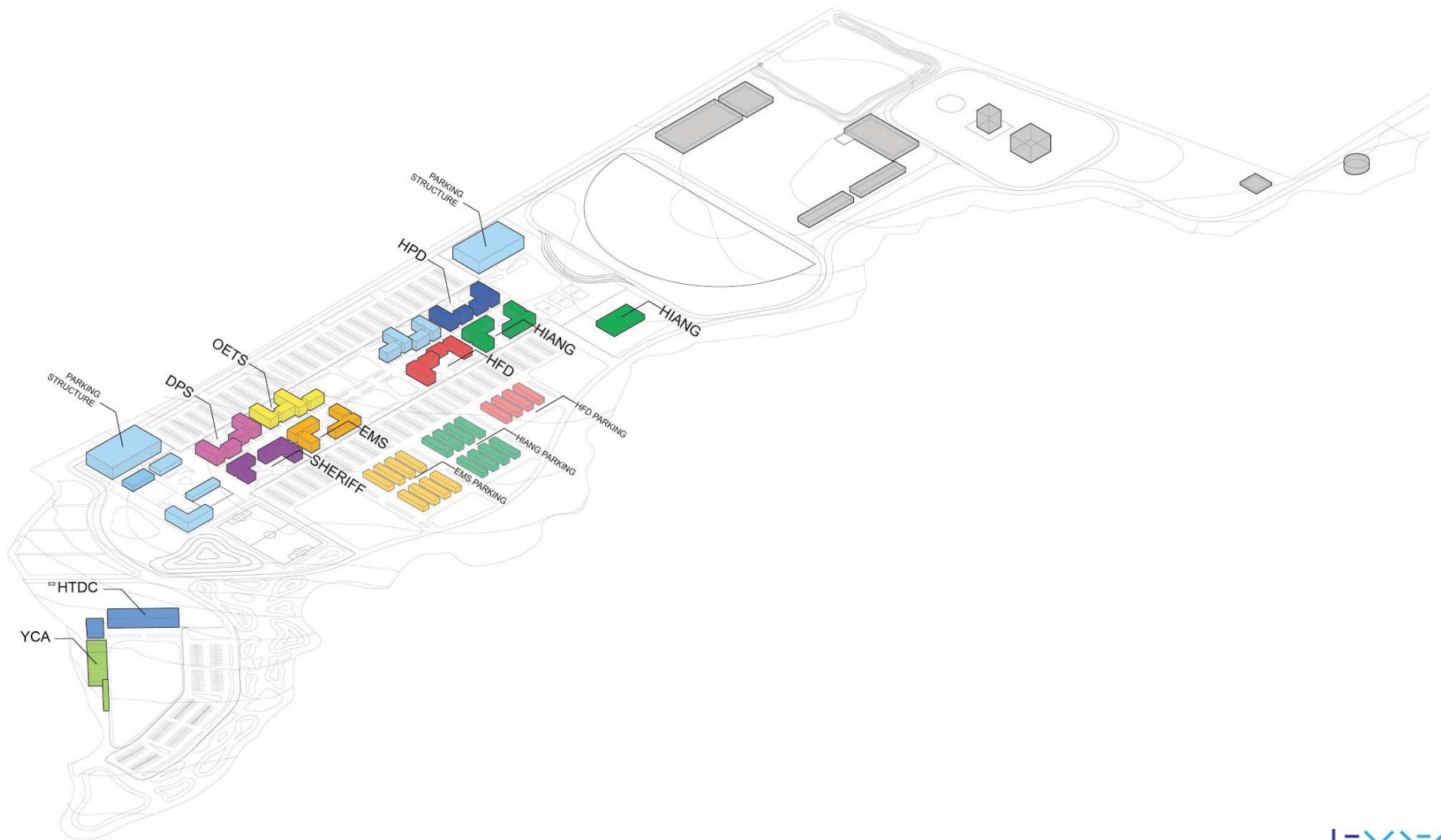
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|------------|----------|-------------------------|------------------|------------------------------|--------------------|----------------------------|
| 1. HTDC | 5. DPS | 9. OETS | 13. Mock City | 18. Tactical Training | 23. K-9 Facility | 28. Controlle Burning Area |
| 2. YAC | 6. HIANG | 10. Large Vehicle Barns | 14. Radio Towers | 19. Auditorium | 24. Repel Tower | 29. Firing Range |
| 3. SHERIFF | 7. HFD | 11. Security Post | 15. Pool | 20. Public Parking Structure | 25. Matson Tower | 30. Shared Mechanical Shop |
| 4. EMS | 8. HPD | 12. Heli Pad | 16. Dormitory | 21. Decon Footprint | 26. Driving Course | 31. Shared Radio Shop |
| | | | 17. Gymnasium | 22. Rescue Tower | 27. Skid Pad | 32. Existing Water Tower |



MASTER PLAN

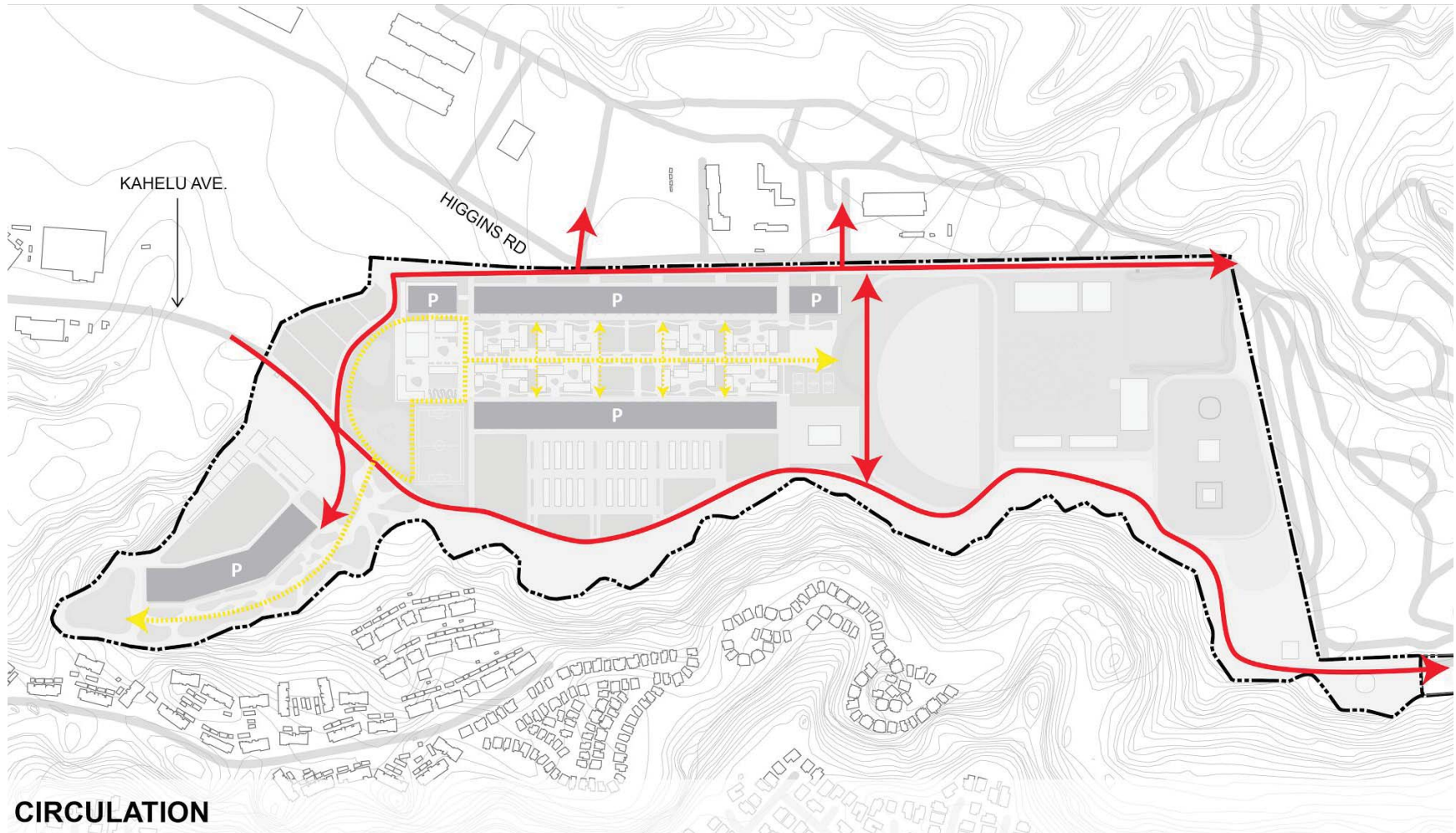
FIRST RESPONDERS TECH CAMPUS





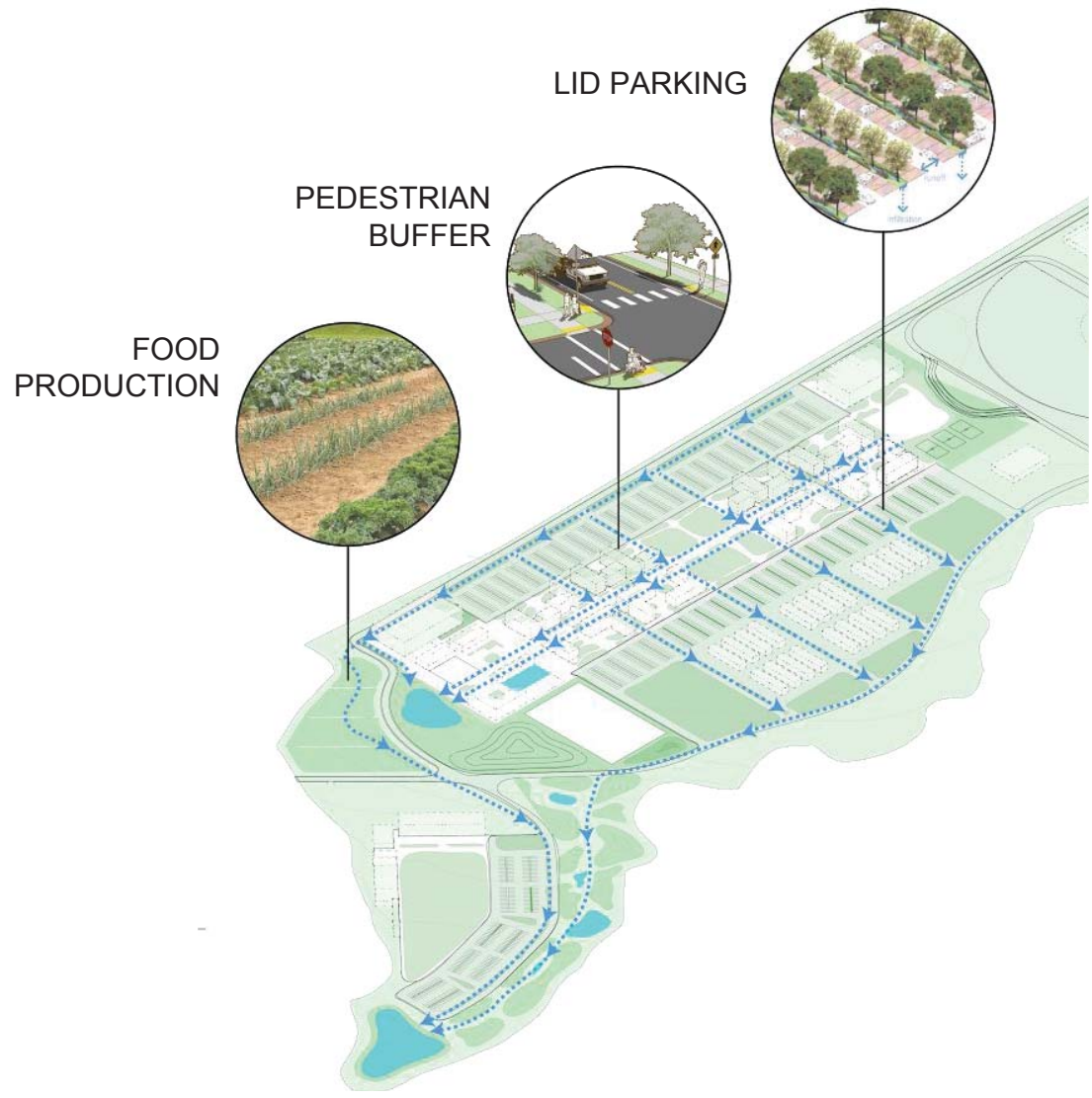
SITE ORGANIZATION

FIRST RESPONDERS TECH CAMPUS



CIRCULATION

FIRST RESPONDERS TECH CAMPUS



WATER RUNOFF SOLUTIONS

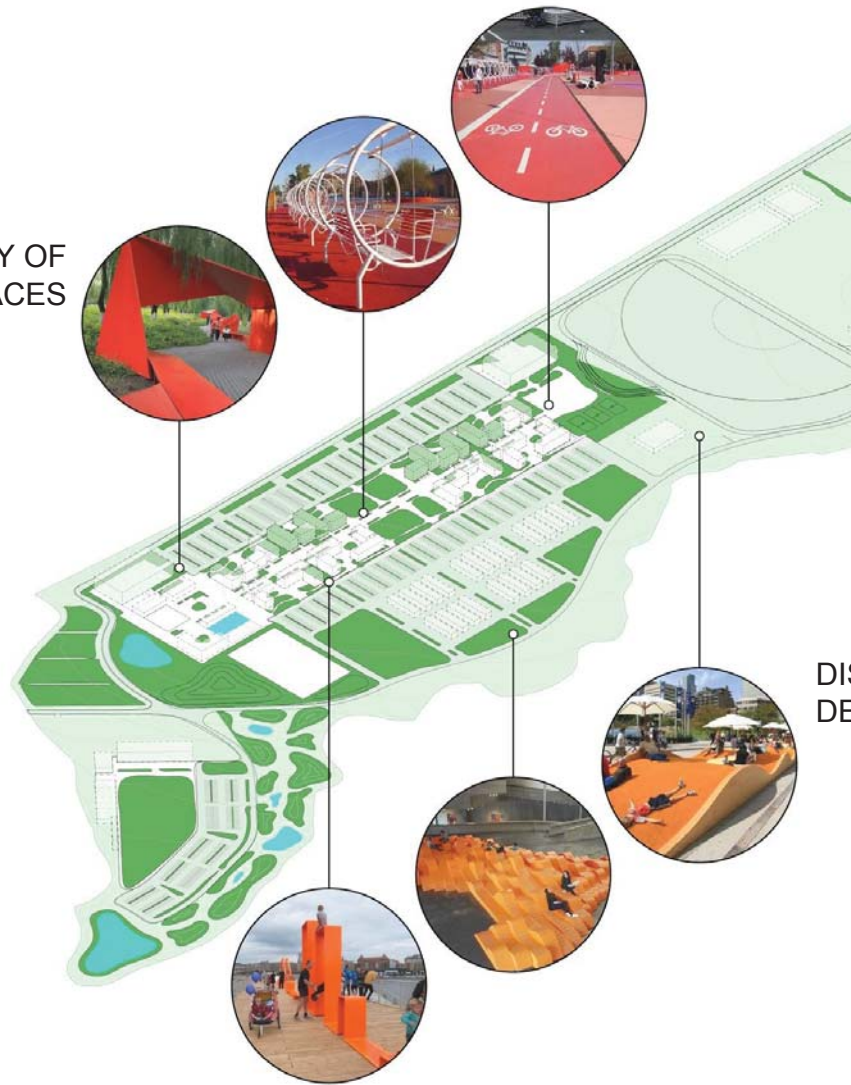
FIRST RESPONDERS TECH CAMPUS



OUTDOOR SPACES

FIRST RESPONDERS TECH CAMPUS

IDENTITY OF
OUTDOOR SPACES



DISTINGUISHING
DEPARTMENTS

BRANDING

FIRST RESPONDERS TECH CAMPUS



SITE ORGANIZATION

FIRST RESPONDERS TECH CAMPUS