

The Public Architect as City Builder

WE 203: The Public Architect as City Builder
Wednesday, April 26, 2017, 8:30am – 5:30pm
Learning Units 7.50 LUs/HSW/RIBA

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Questions related to specific products and services may be addressed at the conclusion of this presentation.

Speakers List

- Lee Solomon, Deputy Director, New York City Housing Authority
- Ed Gauvreau, Chief, Planning Branch, Installation Support Division, HQ US Army Corps of Engineers (USACE).
- Michael Kaleda, Senior Vice President and Program Executive, MTA Capital Construction Company
- Michael Kelly, General Manager, New York City Housing Authority
- Margaret O'Donoghue Castillo, Chief Architect, NYC Department of Design and Construction
- Paul D. Smith, Portfolio Manager, NYC Department of Environmental Protection
- Deborah Goddard, Executive Vice President for Capital Projects, New York City Housing Authority

Course / Learning Objectives

- Attendees will have analytic and conceptual tools to evaluate and deploy the design and construction of infrastructure strategies. With these tools, Public Architects and Designers of Public Infrastructure will become key decision makers in complex funding environments, leveraging knowledge and understanding gained in this workshop in support of this very necessary subject matter expertise.
- Upon completion, participants will be able to identify main types of public and private issues and will be able to access tools and resources to evaluate and navigate through authorities having jurisdiction and stakeholders.
- Upon completion, participants will be able to describe the competing demands for infrastructure development and will have made connections to other design professional experiences from whom they can learn.
- At the end of this workshop, participants will have helped to establish criteria to evaluate the viability of infrastructure project strategies, and hence for defining the role of design professionals.
- Upon completion, participants will have information necessary to shape decision-making to serve in creating the highest quality and best value public realm.

Institutionalizing Resilient Planning in the Department of Defense

Edmond G. Gauvreau, FAIA

Chief, Planning Branch

HQ, U.S. Army Corps of Engineers

What drives me?

- 35.5 years of public service
- Public sector not first choice – personal circumstances drove decision
- Military not first choice of public agency – impressed with mission focus
- Variety of work, see results for clients
- Being part of something bigger than you



**US Army Corps
of Engineers®**



A'17

AIA Conference on Architecture 2017
April 27–29, Orlando

What drives me for AIA?



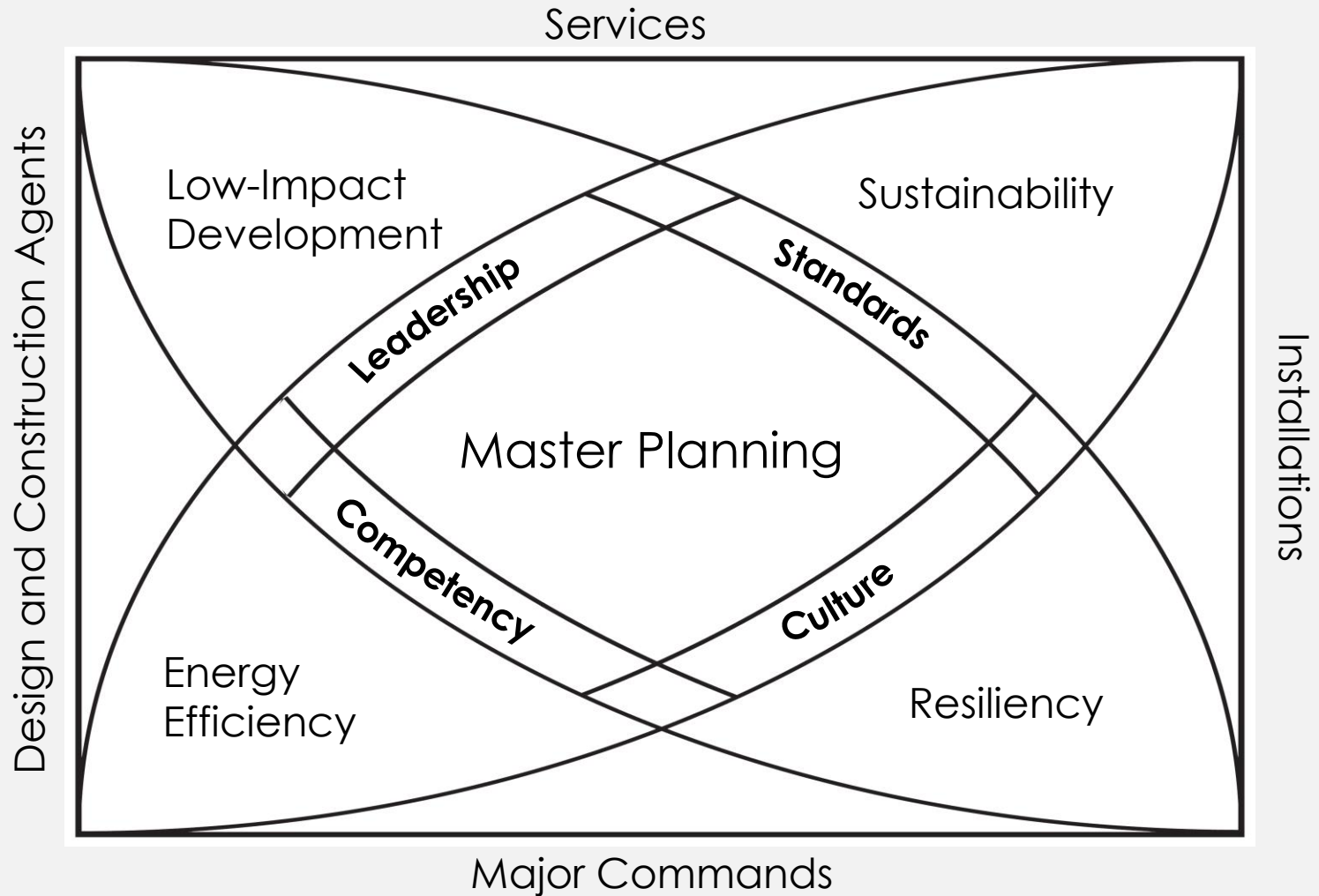
Proponent for public architects
Leadership opportunities
Peer-to-peer relationships

Need to be “in the room where it happens” to effect change

“Don’t throw away your shot!”



An Enterprise Approach to Master Planning



Polling Question #1

- **Does your organization/firm practice resiliency planning?**
 - Yes
 - No
 - What is resiliency planning?

LEADERSHIP

Legislation

National Defense Authorization Act

- 2013 - Requires military installations to update master plans every 10 years, addressing sustainable design and development
- 2014 – Master plans to consider the following:
 - a) Compact and infill development
 - b) Horizontal and vertical mixed-use development
 - c) Full lifecycle costs of planning decisions
 - d) Capacity planning - establish growth boundaries around developed areas, focus future development towards core areas, and preserve range and training space

Directive

Department of Defense Directive, 2013:

The DoD Component exercising management responsibility over each installation shall develop a master plan by **1 October 2018** that defines opportunities for site development and alternative land use and incorporates the (UFC) planning strategies

DODI 4165, *Real Property Management* cites:

All projects must be sited in accordance with the installation master plan.

Polling Question #2

If so, which of the following comprise your resiliency planning?

(Multiple choice, with more than one answer allowed)

- a. NA – not in use
- b. Energy efficiency
- c. Potable water efficiency / storm water
- d. Climate change
- e. Historic / cultural resources
- f. Healthy communities / healthy places / mixed mode transportation or walkability.
- g. Site security / cyber-security / utility and infrastructure security
- h. Capacity and use planning / Area development planning
- i. Form-based planning
- j. Facility standards / plan-based programming

STANDARDS

Department of Defense

UFC 2-100-01
15 May 2012

UNIFIED FACILITIES CRITERIA (UFC)

INSTALLATION MASTER PLANNING



APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

- Created with active input from all services
- Establishes 10 key strategies
- Outlines common process and set of products
- Describes evaluation and training approach

Department of Defense

UFC 2-100-01
15 May 2012

UNIFIED FACILITIES CRITERIA (UFC)

INSTALLATION MASTER PLANNING



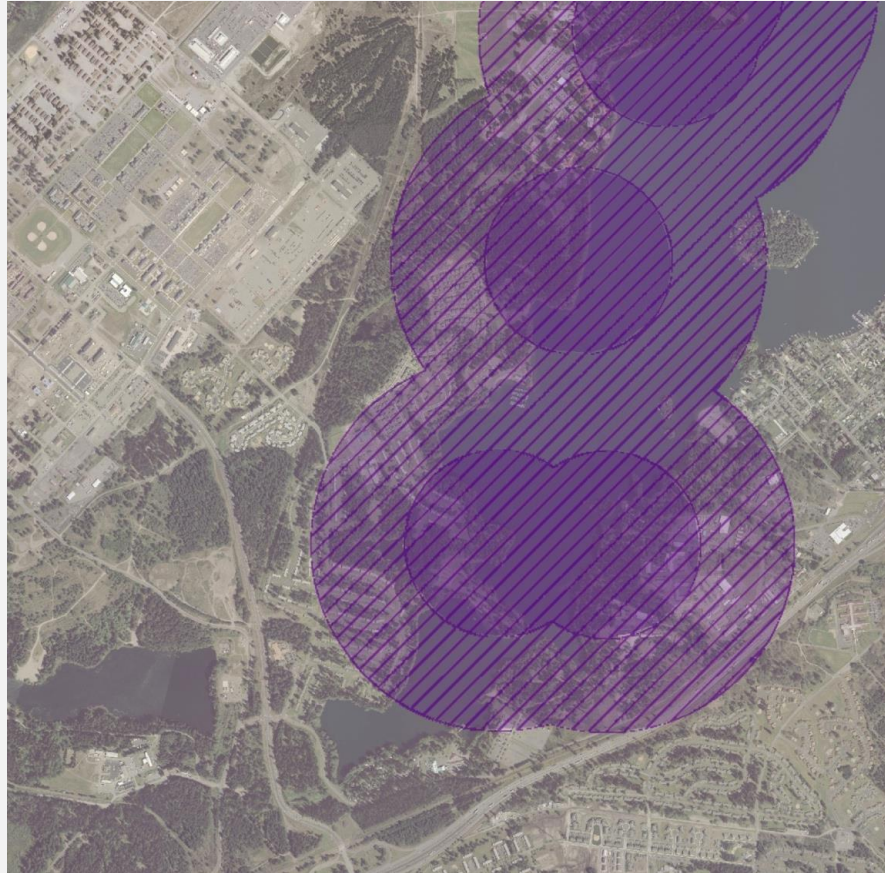
APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

- Vision Plan
- Installation Development Plan
 - Area Development Plans
 - Network Plans
- Development Standards
- Development Program
- Plan Summary

1. Sustainable Planning

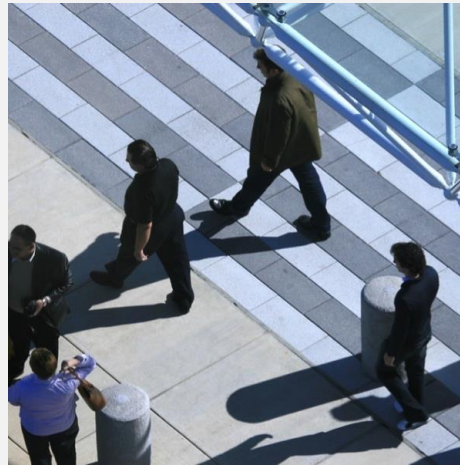


2. Resource Management



Natural, Historic, and Cultural Resource Management

3. Healthy Community Planning



4. Defensible Planning



5. Capacity Planning

Industrial / Storage Space
409,000sf – 1.4M

Community Support / Admin Space
93,000sf – 408,000sf gained

150 pn barracks gained
1,600 parking spaces gained

Pearl Harbor-Hickam Northside ADP Illustrative Plan

Vision

In support of the waterfront mission, our vision is to create a walkable and bikable district with consolidated functions and sustainable buildings that shape flexible open spaces with district parking and a visible history.

Legend

- Installation Boundary
 - ADP Boundary
 - Existing Building
 - New Building
 - Natural Open Space
 - Park / Quad
 - Recreation Field / Court
 - Controlled Access Campus Street
 - Pier
 - Existing Tree
 - New Tree
 - 5-Minute Walk From Transit Stop
 - Transit Stop
 - Tactical Pavement / Parking / Staging
 - POV Parking
 - Homeported Ships
 - Transient Ships
- A Warehouse Location 1: 118,100sf / level, 2-6 levels
B Warehouse Location 2: 113,200sf / level, 2-6 levels
C Warehouse Location 3: 37,900sf / level, 2-6 levels
D Notional HQ Campus: 12,650sf / level, 2-8 levels
E Notional HQ Campus: 23,500sf / level, 2-8 levels
F Level 1 Commercial, 3,100sf; 10 pn barracks above
G Notional Expansion: 1,700sf / level, 2 levels
H Level 1 Commercial, 4,300sf; 10 pn barracks above
I Level 1 Commercial, 2,700sf; 10 pn barracks above
J Notional Facility: 5,500sf / level, 2-6 levels
K Level 1 Commercial, 6,950sf; 10 pn barracks above
L Level 1 Commercial, 6,200sf; 10 pn barracks above
M Level 1 Commercial, 3,000sf; 10 pn barracks above
N Level 1 Commercial, 3,400sf; 10 pn barracks above
O S1B Pier Extension
P Notional Expansion: 3,300sf / level, 3 levels
Q Level 1 Commercial, 4,900sf; 10 pn barracks above
R Level 1 Commercial, 7,800sf; 10 pn barracks above
S Parking Garage: 256 spaces / level, 2-8 levels
T Pedestrian Turnstile Access
U Public Lightrail Connection
V Access Control Point Reconfiguration
- Car Parks: 919 spaces
On-Street Parking: 347 spaces
Garage Parking: 2,308 spaces
Total Parking: 3,574 spaces
*103 additional spaces in controlled access areas

*Reflects "MAX" Homeport Berthing
(Typical RIMPAC Condition)



6. Area Development Planning



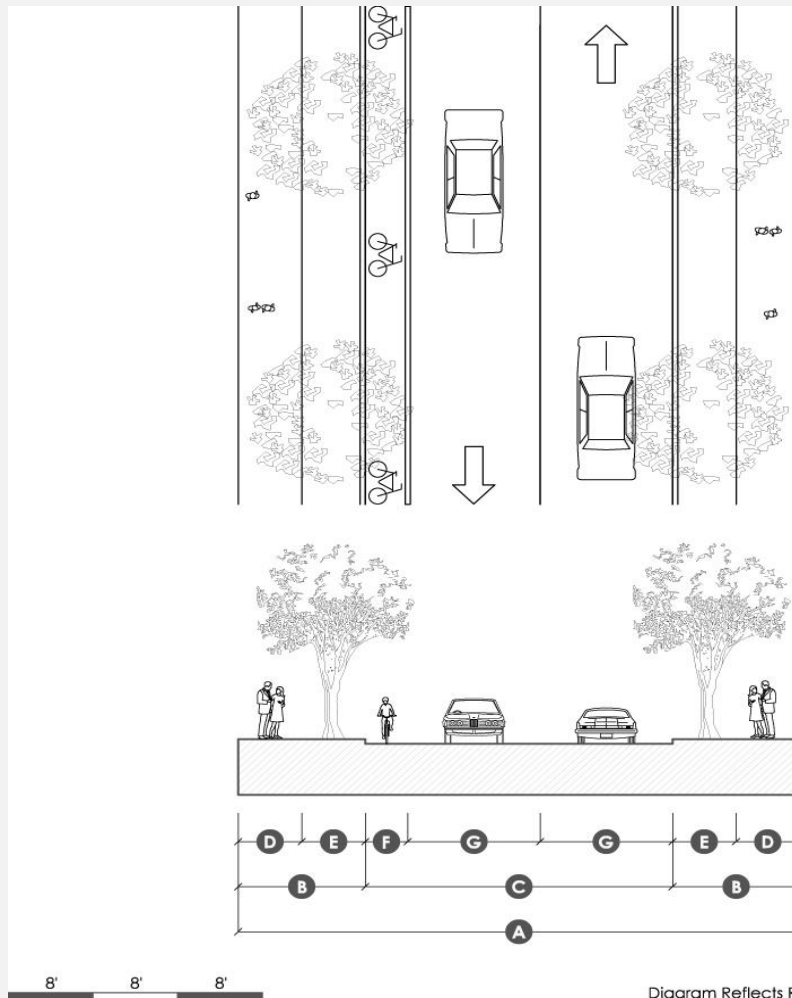
7. Network Planning



8. Form-Based Planning



9. Facility Standardization

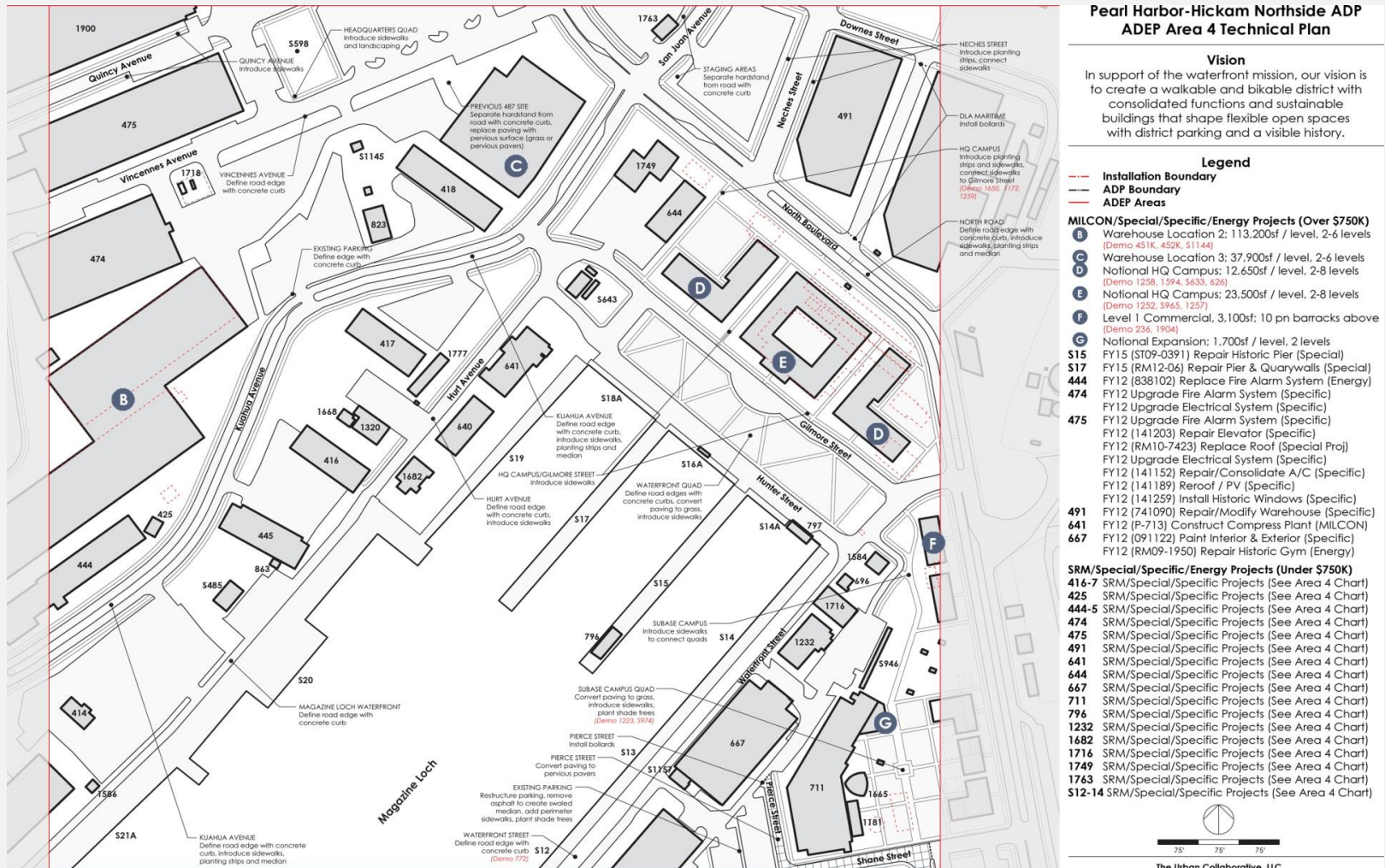


Overall Widths	Min.	Max.	Recommended
Right-of-Way (ROW) Width	47'	68'	53' (A)
Verge Width	8'	16'	12' (B)
Curb to Curb Width	23'	36'	29' (C)

Lane & Edges	Min.	Max.	Recommended
Sidewalks	4'	8'	6' (D)
Planting Strip	4'	8'	6' (E)
Bike Lane	3'	6'	4' (F)
Traffic Lanes	10'	15'	12'6" (G)

Street Trees	
Native Street Trees	25' - 35' o.c.
Typical Lane Width for Desire Street Speeds	
25 Miles or Below	10'
26 - 35 Miles	11'
36 and Above	12'
Typical Parking Width for Desire Street Speeds	
25 Miles or Below	7'
26 - 35 Miles	8'
36 and Above	9'
Building Setbacks	
Building Setback shall be minimum allowable Anti Terrorism Force Protection Standards	

10. Plan-Based Programming



Polling Question #3

What is the most important of these for your organization?

(Multiple choice, with more than one answer allowed)

- a. NA – not in use
- b. Energy efficiency
- c. Potable water efficiency / storm water
- d. Climate change
- e. Historic / cultural resources
- f. Healthy communities / healthy places / mixed mode transportation or walkability.
- g. Site security / cyber-security / utility and infrastructure security
- h. Capacity and use planning / Area development planning
- i. Form-based planning
- j. Facility standards / plan-based programming

Polling Question #4

What are the tools you use to promote resiliency planning throughout your organization?

(Multiple choice, with more than one answer allowed)

- a. Design/ performance standards
- b. Facility/interior standards
- c. Staff training about issues
- d. Master plans
- e. GIS
- f. Modeling
- g. Benchmarking

Competency through Training

Established Master Planning Institute

Chartered to provide Master Planning Continuing Education to DoD; Open to all DoD and Federal Agencies, Contractors and General Public

Only accredited Federal Planning 5-training program (*accredited by American Institute of Certified Planners (AICP) (Also continuing education credits for Architecture, Engineering and Landscape Architecture)*)

Conducted Through USACE Learning Center (www.dodmpi.org)

Offerings include Master Planning Courses and Training practicums

- 075 Master Planning Principles
- 952 Master Planning Advanced Techniques
- 258 Master Planning Energy & Sustainability Factors
- 948 Master Planning Visualization Techniques
- 326 Master Planning Execution
- 310 Master Planning Implementation
- 392 Master Planning Sustainable Historic Structures
- 241 Master Planning Practices

Model Projects for all Services

JOINT BASE PEARL HARBOR-HICKAM

INSTALLATION DEVELOPMENT PLAN TRAINING PRACTICUM REPORT VOLUME I



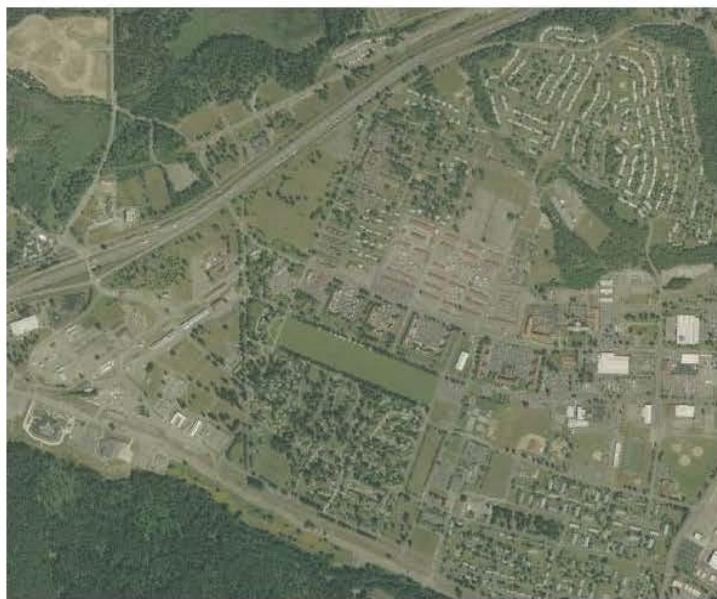
THE URBAN COLLABORATIVE, LLC

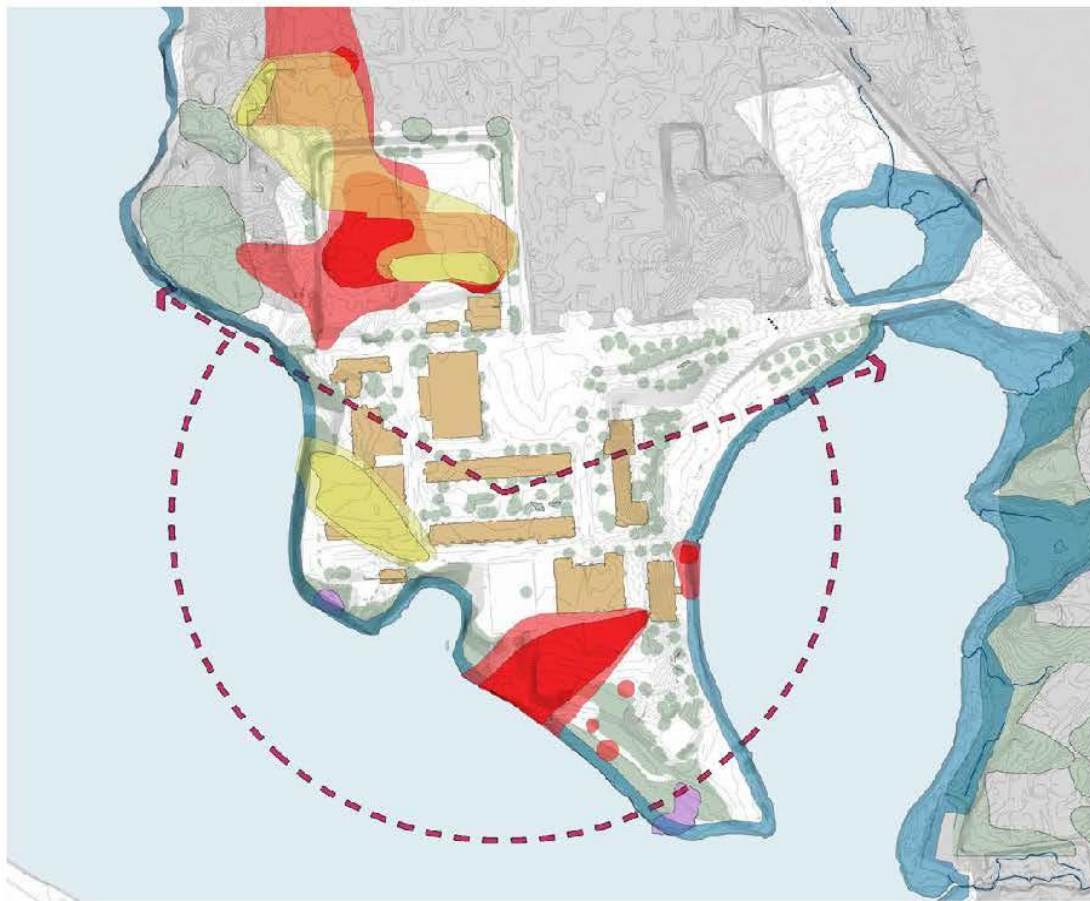


Left Column, Top: Illustrative Plan for Fort Lewis
 Left Column, Middle: Existing Street Scape, Main Boulevard
 Left Column, Bottom: Proposed Street Scape

Middle Column, Top: Bottom: Existing Base
 Middle Column, Area Development Plan for Historic Downtown

Right Column, From Top to Bottom: Joint Base Lewis-McChord Illustrative Plan, Regulating Plan, Transportation Plan, Parks and Open Spaces





Top Left: Existing Constraints
 Top Right: Regulating Plan
 Bottom Right: Preferred Alternate
 with Pedestrian Quads





Top Left: Preferred Alternative Plan
Top Right: Aerial View of Fort DeRussy and downtown Honolulu



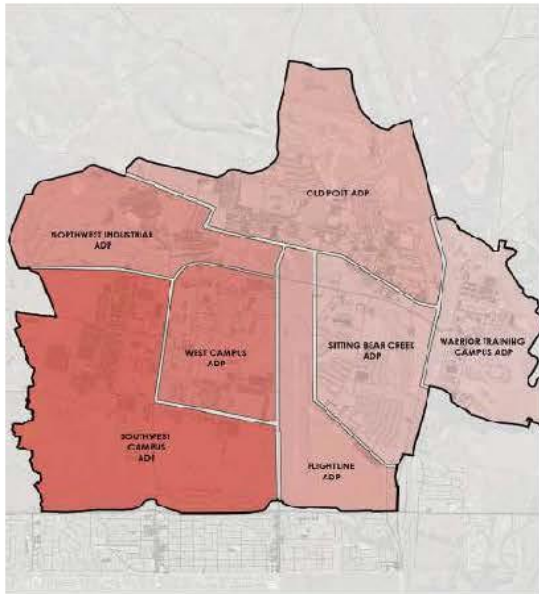
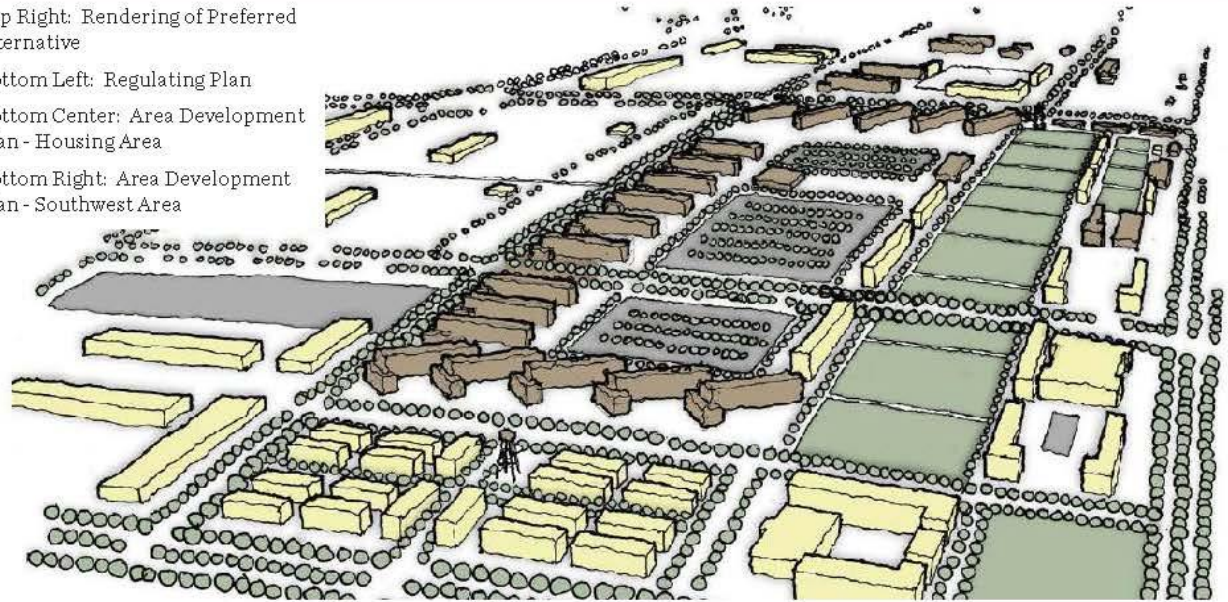


Top Right: Rendering of Preferred Alternative

Bottom Left: Regulating Plan

Bottom Center: Area Development Plan - Housing Area

Bottom Right: Area Development Plan - Southwest Area





Top Left: Post Theatre

Top Center: Rendering - Hacienda Heights ADP

Center Row Left: Post Headquarters - Fort Hunter Liggett

Center Row Center: Vision Plan - Fort Hunter Liggett

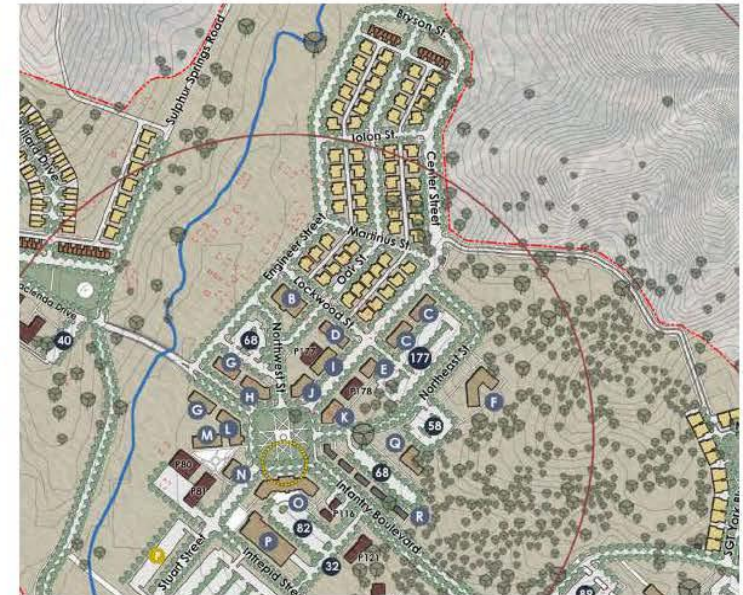
Bottom Right: Detail - Hacienda Heights ADP



Alternate A

Alternate B

Alternate C



Polling Question #5

How do you anticipate resiliency-planning costs to budget appropriately?

(Multiple choice, with more than one answer allowed)

- a. NA – not in use
- b. Look at budget precedents for similar organizations
- c. Third-party feasibility studies
- d. Consult white papers or other reference materials
- e. Convene in-house task forces or committees
- f. Convene outside task forces or committees

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