



U.S. AIR FORCE









AGENDA



- Referenced Information
- Introduction
- Regional Context
- Joint Land Use Study
- 13 Encroachment Challenge Areas
- Civilian-Military Guidebook
- AICUZ & IONMP
- JBLM RPMP
- JBLM AAPS
- Upcoming Projects





Partnerships and Studies



Regional Planning Studies

– Joint Land Use Study:

https://www.ssmcp.org/joint-land-use-study/

WA-Dept. of Commerce: Civilian and Military Compatibility Guidebook:
 https://deptofcommerce.app.box.com/s/fy5g46wo3hrdnverftgewvciytv9ds12

Referenced Data

- Air Operational Compatibility Use Zones
- Installation Operational Noise Management Plan
- DOD Office of Local Defense Community Cooperation 13 Encroachment Areas

https://www.ridgecrest-ca.gov/DocumentCenter/View/6947/Grantee-Guide---Compatible-Use--Installation-Resilience-OLDCC

- JBLM Master Plan
- JBLM Architectural Appearance Standards
- FY24 President's Budget <u>Department of Defense Releases the President's Fiscal Year</u>
 2024 <u>Defense Budget</u>







Jacob Gailey is a registered Architect who was licensed in 2020 and has been working in the South Puget Sound since 2009. In 2021 he joined the Washington Army Reserve National Guard and was commissioned as a 2nd Lieutenant in 2023 through the 2-205th RTI's Officer Candidate School. He started working for the Joint Base Lewis-McChord Garrison as the architect for the Directorate of Public works, Master Planning Division in 2023.

He has specialized in CAD and BIM management, focusing on residential and light commercial projects. Prior to earning his license and coming to JBLM he worked at a Seattle firm on large scale commercial and government projects, including work at Seattle-Tacoma International Airport. He lives in Lacey, WA with his wife and three elementary age children.







Civilian - Military Use Planning

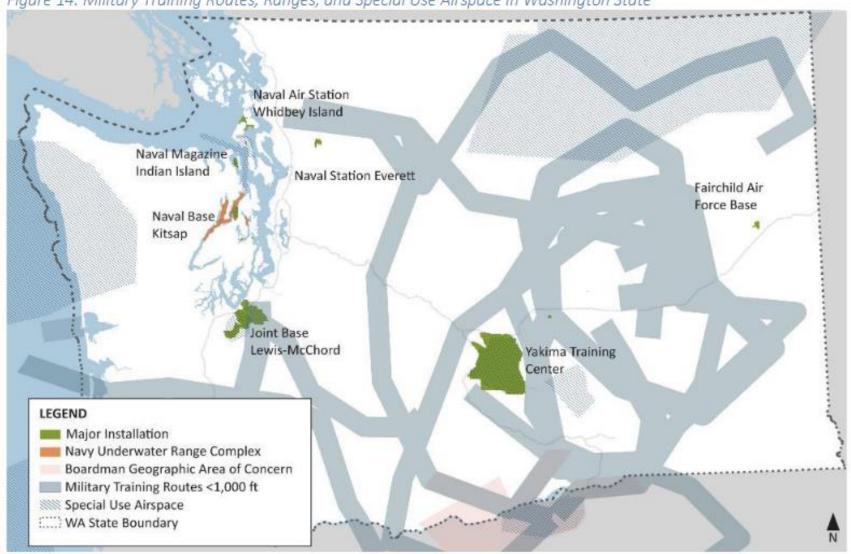




WA DoC Civilian-Military Compatibility Guidebook



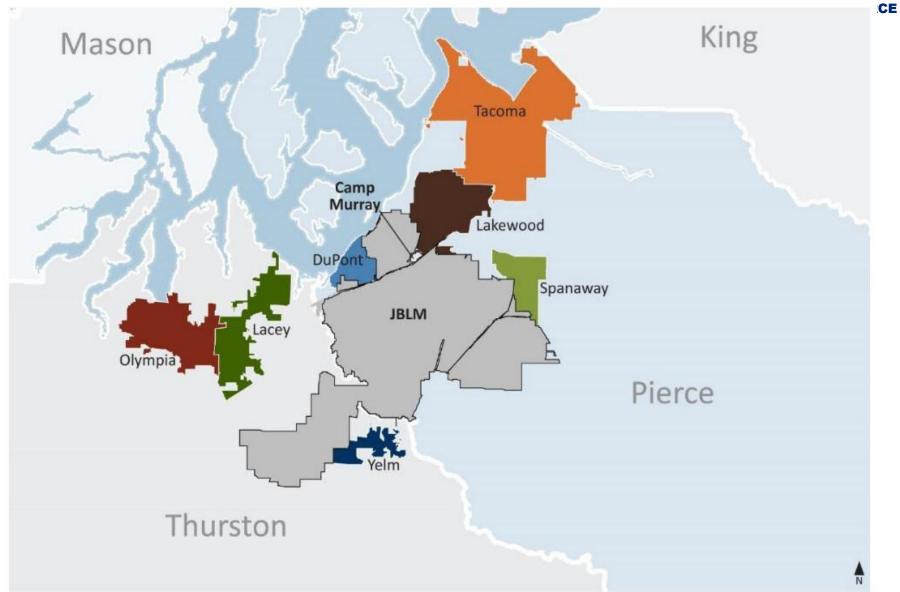
Figure 14: Military Training Routes, Ranges, and Special Use Airspace in Washington State





JBLM Regional Context



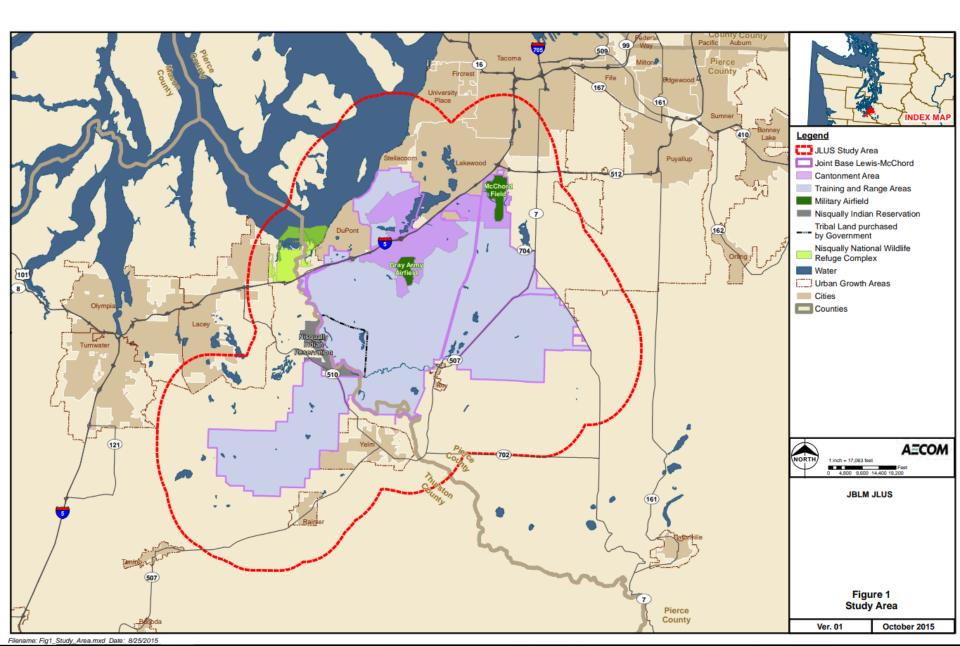






Joint Land Use Study (JLUS)







Joint Land Use Study



"The Joint Base Lewis-McChord (JBLM) Joint Land Use Study (JLUS) is a collaborative process among local, state, and regional jurisdictions; the public; federal, state, and regional agencies; and military installations within the South Puget Sound region of the State of Washington. The JLUS presents recommendations for consideration by local and state governments that promote development compatible with military presence and protecting public health, safety, and welfare while also protecting the ability of the military to accomplish its vital training and operational missions presently and over the long-term. The study is designed to create dialogue around complex issues such as land use, economic development, infrastructure, environmental sustainability, and the operational demands and mission changes of military entities. The intent of the study is to highlight common interests such as economic growth, more efficient infrastructure, healthier environments, improved quality of life, and the protection of Department of Defense (DoD) and civilian investments and missions."



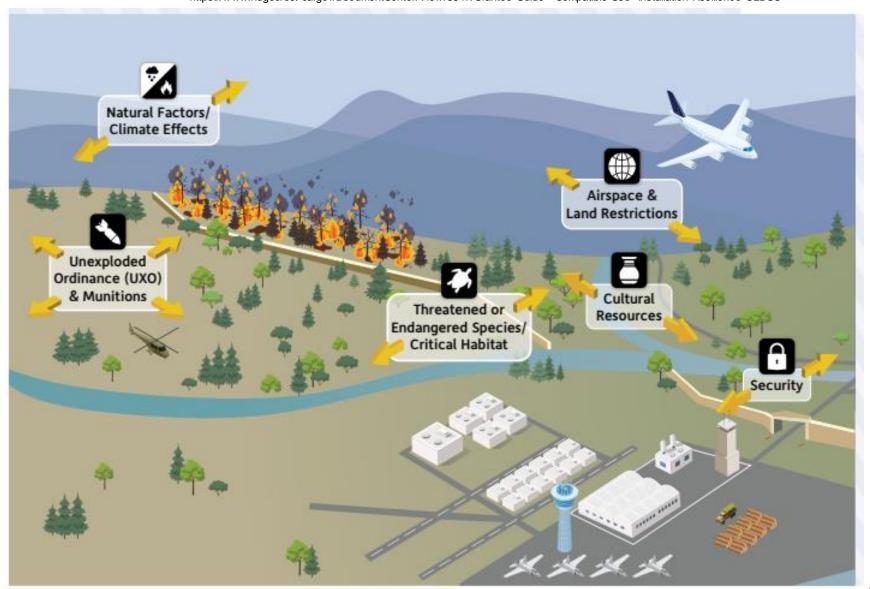




13 Encroachment Challenge Areas



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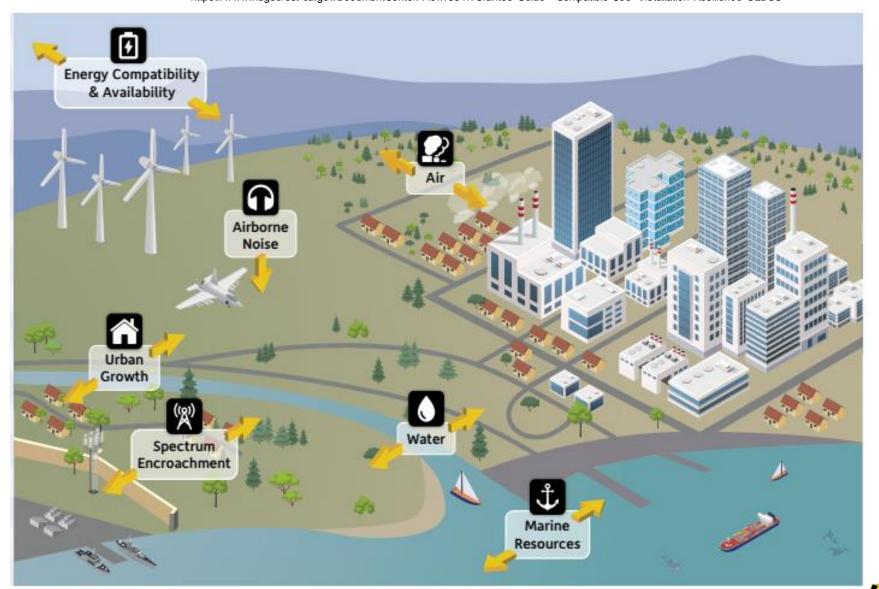




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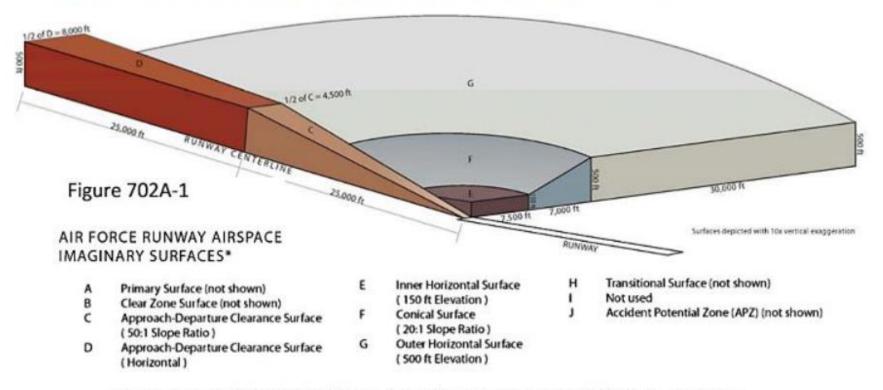




FAA Runway Surfaces (Spokane)



Figure 29: Zoning Code, Spokane (image modified from Chapter 14.70A.320 Height Restrictions)



*Reference: Department of Defense (DoD) Unified Facilities Criteria (UFC) 3-260-01, Table 3-7, portion of Table related to a Class B Runway





Installation Referenced Resources

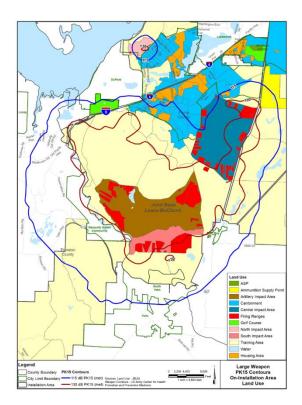


AICUZ

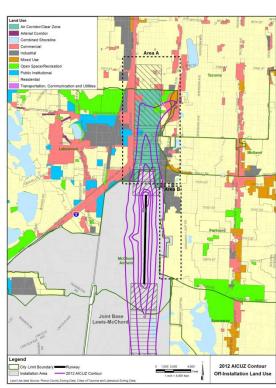
- Air Installation Compatible Use Zone
- Promotes compatible land use development in areas subject to aircraft noise and accident potential
- Protects JBLM aircraft mission from incompatible development off base

IONMP

- Installation Operational Noise Management Plan
- Analysis of exposure to noise and safety hazards with military operations
- Provides guidelines for achieving land use compatibility between JBLM and the surrounding communities



IONMP Large Weapons Contours



AICUZ Off Installation Land Use



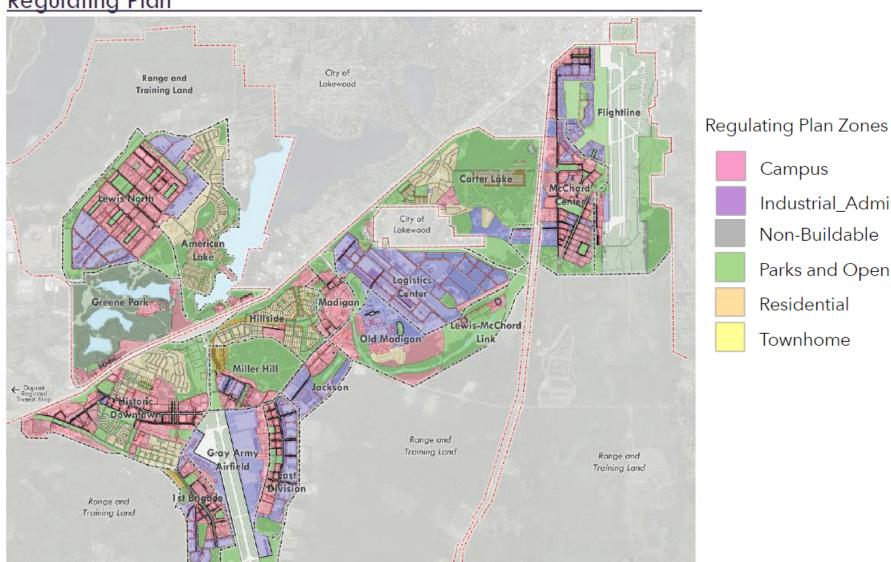




JBLM Real Property Master Plan (RPMP)



Regulating Plan



Industrial_Admin Non-Buildable Parks and Open Space

Townhome





JBLM Real Property Master Plan



Planning Vision

In support of the **mission**, Service-members, families, civilians, and retirees, we will create a **sustainable community** of **walkable neighborhoods** with **identifiable town centers** connected by **complete streets**.

Goal 1: Mission Capable Environments: Recognizing the primacy of the Installation's mission. Mission sustainability is the key to operational success.

Goal 2: Sustainable Communities: Using compact development to minimize resource consumption and maximizing transportation options.

Goal 3: Walkable Neighborhoods: Support pedestrians as well as cars. They have safe, convenient, and comfortable sidewalks that connect every use.

Goal 4: Identifiable Town Centers: Are at the heart of each district. The planning principles to support the development of Town Centers encourage walkability and effective public spaces that can support vibrant community life

Goal 5: Complete Streets: Provide safe, efficient passage for all forms of transportation, including through and local traffic, bicyclists, and pedestrians.







Complete Streets

Multi-Way Boulevard On-Street Parking

On-Street arking

Street Cafes

Bulb-Outs

Street Trees

Parkways

Street Grid

Mission Capable Environments

Compact Development

Job and Housing Proximity

Efficient Transportation

Affordable Development

Visible Entries

Close In Training

Rangeland and Airspace Preservation

Mixed-Use

Sustainable Communities

LEED Facilities

Low-Impact Development

Linear Parks

Hidden Parking

Multi-Story Buildings

Public Transit

Bikeable/Bike Paths

Car Parks

Narrow Buildings

Walkable Neighborhoods

Planting Strips

Sidewalk Buildings

Connected Sidewalks

Five Minute Walk

Neighborhood Parks

Aligned Entries

Shop Fronts

Great Views

Identifiable Town Centers

Main Street

Clear Edges

Town Square

Regional Character

Large Park Blocks

Historic Preservation

Focal Points







Mission Capable Environments







Rangeland and Airspace Preservation

Training is the cornerstone of readiness, and the land on which training is performed is a crucial asset at JBLM. Greenfield development methods of the past have encroached on rangelands, which is not acceptable. The installation must focus on rangeland and airspace preservation and provide room for future training expansion. Both air and land encroachment should be minimized.

Compact Development

Planning facilities and infrastructure in a compact manner ensures that critical resources like land, money, and time are not used unnecessarily. Utility and road systems disturb vast quantities of land, and are costly to build and maintain. Sprawl has significant economic and development consequences and reduces the land available for training or for future mission growth. Compact development in the form of mixed-use, multi-storyfacilities and onstreet parking, ensures that resources can be used for mission-enhancing pursuits. The use of compact development can also allow for increased family housing capacity on the installation, which creates a more lively and vibrant community.







Walkable Neighborhoods



Five Minute Walk

Many people are generally willing to walk five minutes (1/4 mile) to go to school or work and to access retail shops and services. Workplaces, schools, homes, and shopping located in mixed-use neighborhoods within a five-minute walking radius support a pedestrian-focused environment. People are less dependent on cars, which positively impacts the environment and creates opportunities for increased neighborhood cohesion.

Connected Sidewalks

Residents want to be able to enjoy a walk that is safe, pleasant, directionally clear, and shopping-accessible. Sidewalks should be connected in order to enable wayfinding, and to provide a sense of direction and purpose to a destination. Sidewalks should be a minimum of five feet wide, shaded by street trees, and separated from the road with a planting strip at least eight feet wide when possible. Connected sidewalks are crucial to creating a pedestrian-friendly community, which will reduce environmental impacts, increase a sense of neighborhood cohesion, and provide positive health benefits. Finally, sidewalks should not meander artificially - they should align directly with building entries and other important elements in the landscape.









Complete Streets

Street Grid

The traditional approach of designing local streets, collectors, and arterials funnels traffic from the former into the latter and contributes to congestion. Drivers rarely have options and are thus all forced onto the arterials. A well-planned street grid can reduce such congestion. Care should be given to design a grid of streets — a parallel and perpendicular network that provides multiple access points into and out of the neighborhood and contributes to safe, complete streets. The grid should conform to site requirements, overlay topographical variations, and can expand and contract to accommodate central park blocks, town squares, and parkways.





Street Trees

When people think of complete streets, trees are always an attribute. Trees create a pleasant focal point, provide shade, and lend shape to a street network. The rhythm of trunks slows traffic and can protect pedestrians from accidents. Street trees should be planted according to the JBLM Landscaping Guide, along as many streets on the installation as possible. For a cost of \$250 to \$600 (includes planting and three years of maintenance), one street tree can provide over \$90,000 of direct benefits during its lifetime. Trees absorb up to 60% of rainwater, which reduces stormwater costs, reduces adjacent building temperatures by 5 to 15 degrees, absorbs automobile exhaust pollutants, and extends pavement life 40 to 60 percent.



Form Based Code



Form Based Code:

- Regulating Plan
- Street Standards
- Building Standards
- Transportation Plan
- Illustrative Plan

Form-Based Code shows the building types, and their relationship to public spaces. Identifies the street types, where they go, the location of parking and the size of blocks. Building orientation is a key requirement that specifies identifiable front entries that open up onto the public space, and parking located behind the building preferably, or to the side.

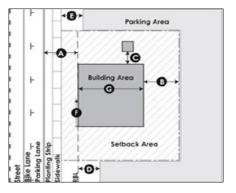
Regulating Plan



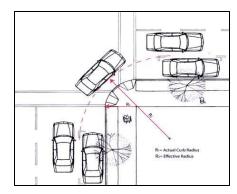
Transportation Plan

Illustrative Plan with overlaid





Building Standard



Street Standard

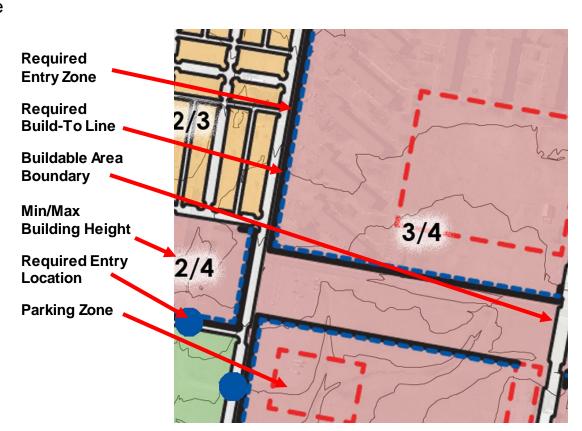




Regulating Plan



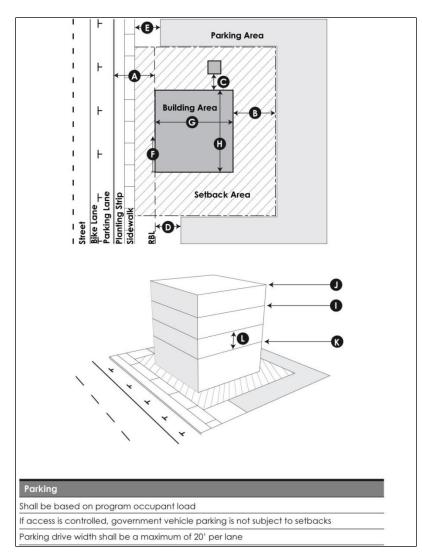
- Required Entry Zone: A blue dashed line indicating a facade that must include a building entry
- Required Build-To Line: A thick black line where a percentage of the building facade must be located
- Building Area Boundary: A highlighted area showing the maximum extent of buildable area on a parcel
- Min/Max Building Height: Two numbers indicating the minimum and maximum number of levels a building may have within the coordinating building are boundary
- Required Entry Location: A blue circle indicating a location where a building entry is required
- Parking Zone: A red dashed line indicating the maximum allowable area to be used for parking

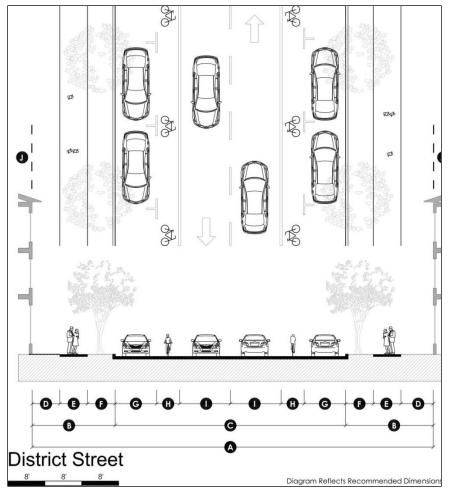






Building & Street Standards





Street Standard



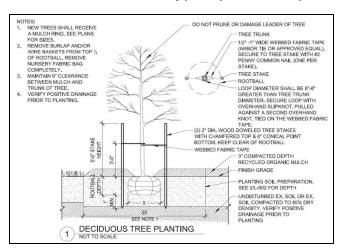




Landscape Standards



- Brings cohesion to the landscape design across JBLM
- Provides for stormwater control
- Three historic districts on the Installation have their own landscape design standards
- •The Guide provides general landscaping guidance and recommendations for street trees, parking areas, and streetscape features
- Streetscape landscaping hierarchy developed for street intersections types per Transportation Plan









Architectural Appearance Standards



Architectural Appearance Standards exist for each sub-area in order to unify the appearance of facilities constructed in that area. The standards include facility style details, materials, finishes, and colors appropriate to the area.

Typical Materials

BASE

Material Concrete Smooth Finish Board Formed



FIELD MASONRY

Material Brick Finish Rug

Color

Color

Columbian Red



HISTORIC / NEO-GEORGIAN/COLONIAL, RUSTIC















FIELD STUCCO

Material Stucco As Pictured Finish

Classical White

METAL TRIM

Aluminum Finish Matte Cool Weathered Color

Copper

STREET LIGHTS

Material Cast Powder Coat Finish 60% Gloss

Color Black







Area Development Plans





Yakima Training Center

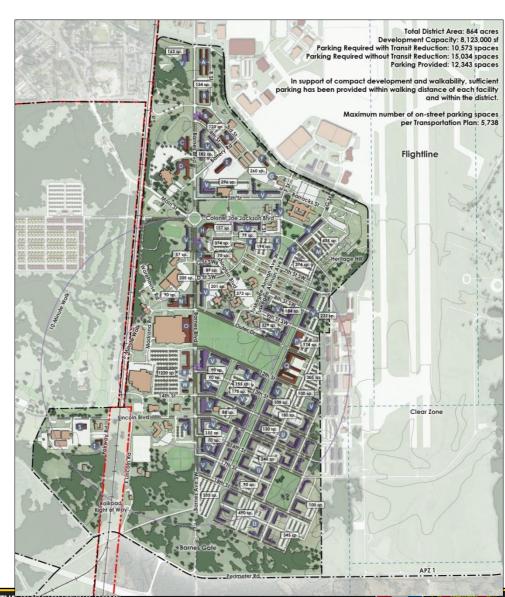




Illustrative Area Plan



- The Illustrative plan is conceptual by nature. It reflects the ultimate desired urban form for the installation
- Each ADP has an Illustrative Plan
- Buildings, streets, parks, and parking lots are illustrated on the plan. The ultimate dimensions and placement of these elements will vary once built
- · What it isn't:
 - An absolute path to the future
- What it is:
 - One of many possible outcomes for the future of JBLM
 - A graphic, which consists of known projects, and future anticipated needs
 - A guide for future growth
 - Hedges the installation for future mission realignments and changes; illustrates maximum development capacity on JBLM





JBLM Master Plan



Illustrative Plan





Yakima Training Center







MILCON Process





MILCON process



Figure 16: Military Construction (MILCON)*

Secretary of Defense: Issues project guidance.

Installation: Engineers/planners identify

facility needs (repair, replacement, etc.)

Estimated Construction Timeline

Installations/each service branch:

Prioritize project lists.

1

1 year,

6 months

2 years, 3 Secretary of Defense:

months Review projects from all services; and prioritize for the President's Budget.

2 years, 8 Office of Management and months Budget and the President:

President's Budget goes to Congress.

1

3 years, 3 Congress:

months

months

Review President's Budget request.
Authorize and appropriate funds.

l ↓

3 years, 6 Secretary of Defense:

Allocates funds to military services.

1

5+ years Construction Complete.







Planned Upcoming MILCON Projects FY24-28: ~\$450M



Facilities	Туре
3	Barracks
2	Training Facilities
2	Administrative Facilities
1	Maintenance Facility
2	Utilities









Potential Future Projects FY28-32: ~\$900M



Facilities	Туре
1	Service Facility
3	Maintenance Facilities
1	Civil Projects
1	Barracks
8	Utilities
4	Administrative Facilities











Future Projected Requirements: ~\$3,100M; 100 Facilities















JBLM Master Plan



Questions



