

ARLINGTON **National Cemetery**

HONOR ★ REMEMBER ★ EXPLORE



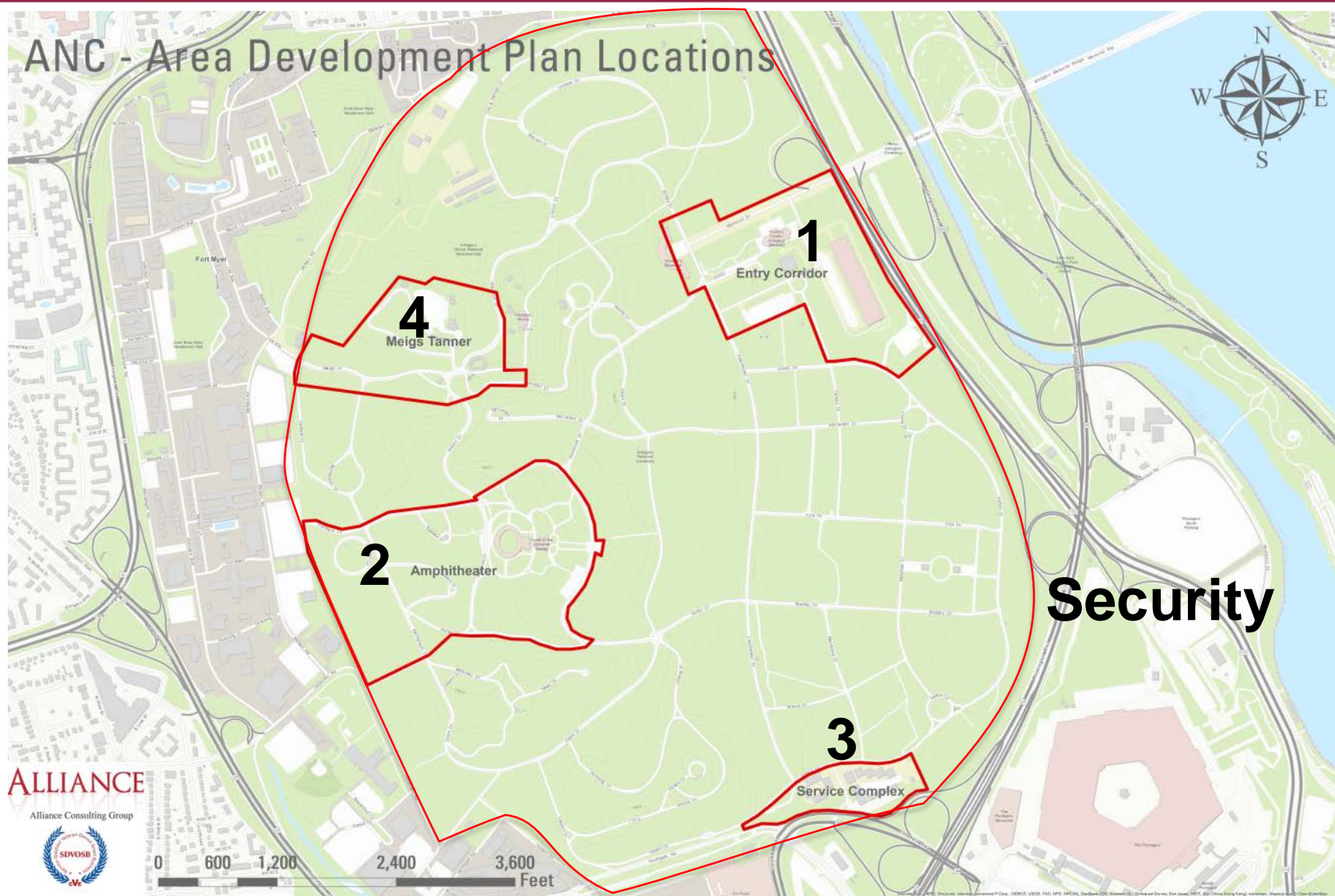
Master Plan Update

Advisory Committee
8 May 2018

UNCLASSIFIED

- **3 Themes –**
 - improve operations
 - improve visitor connection
 - improve longevity of ANC
- **Emphasis:**
 - Memorial Ave entrance area
 - Amphitheater
 - Lodges 1 & 2
 - Museum space
 - Visitor comfort
 - Perimeter wall
 - Space at JBMHH
 - NPS land
 - Commemorative works
 - Break space for workers

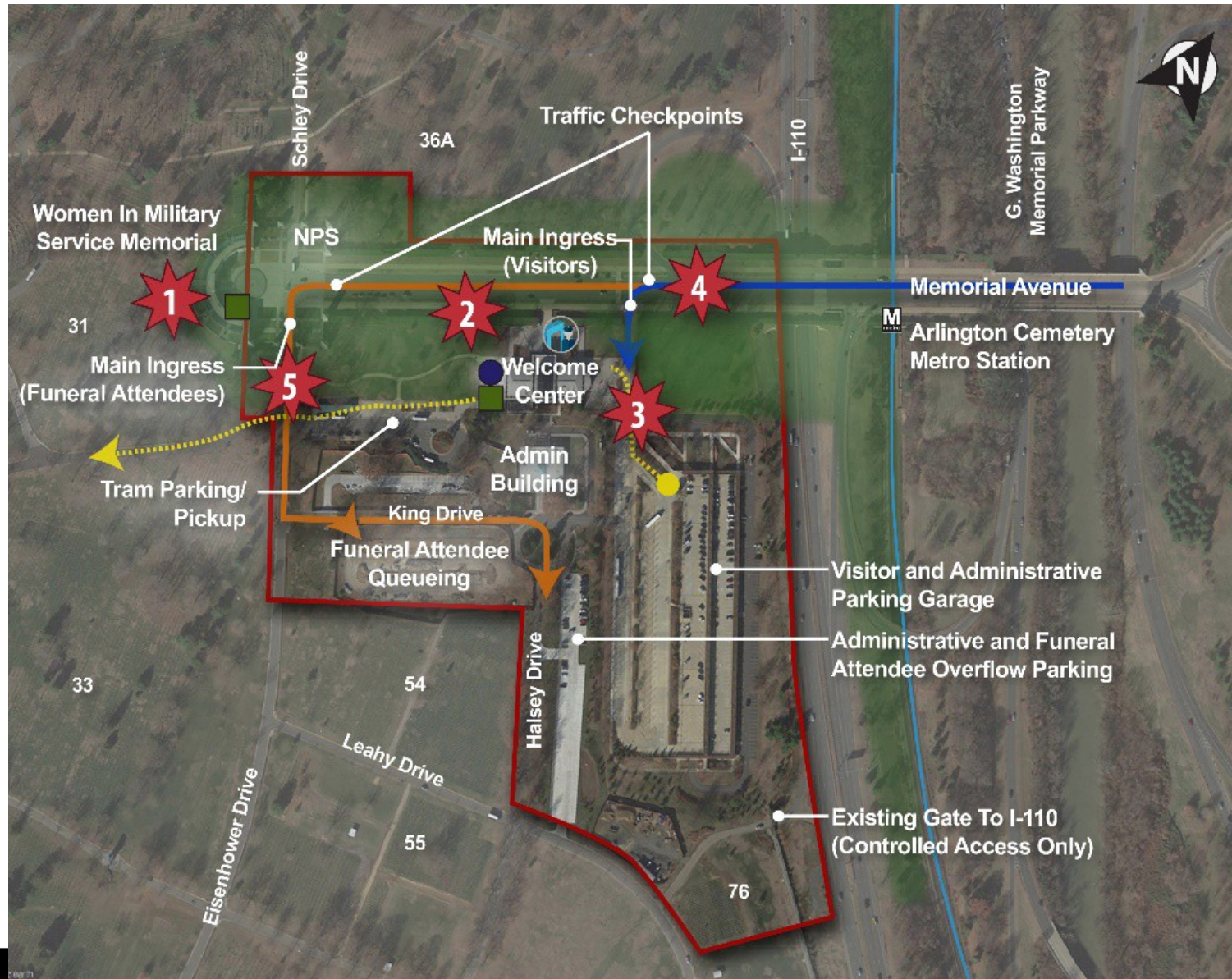





ADP 1 –Entry Corridor

Functions in ADP

1. Administrative Space
2. Defined Vehicle / Pedestrian Circulation
3. Interments and Funerals
4. Gathering Space
5. Interpretive Space
6. Laydown/Storage Space
7. Off-Street Parking
8. Security Interface
9. Guest and Tour Support
10. Ceremonial Space



- ADP Boundary
- ← Typical Visitor Vehicular Circulation
- ← Typical Funeral Attendee Vehicular Circulation
- ⋯ Typical Visitor Pedestrian Circulation
-  Security Screening
-  National Park System Property
-  Water Fountain
-  Restrooms
- ★ 1 Memorial is Disconnected from Visitor Experience
- ★ 2 Lack of Space in Welcome Center Due to Amount of Functions Being Performed
- ★ 3 Vehicle/Pedestrian Conflicts
- ★ 4 Vehicular Conflicts at Point of Ingress / Egress
- ★ 5 Vehicular Conflicts at Point of Ingress / Egress

ADP 1– Proposed Concept

Spatial Functions

- Security Screening
- Interpretive/Education Space
- Ceremonial Space
- Gathering Space
- Guest Amenities
- Burial Space
- Storage/Laydown Space
- Administrative Space

Circulation Functions

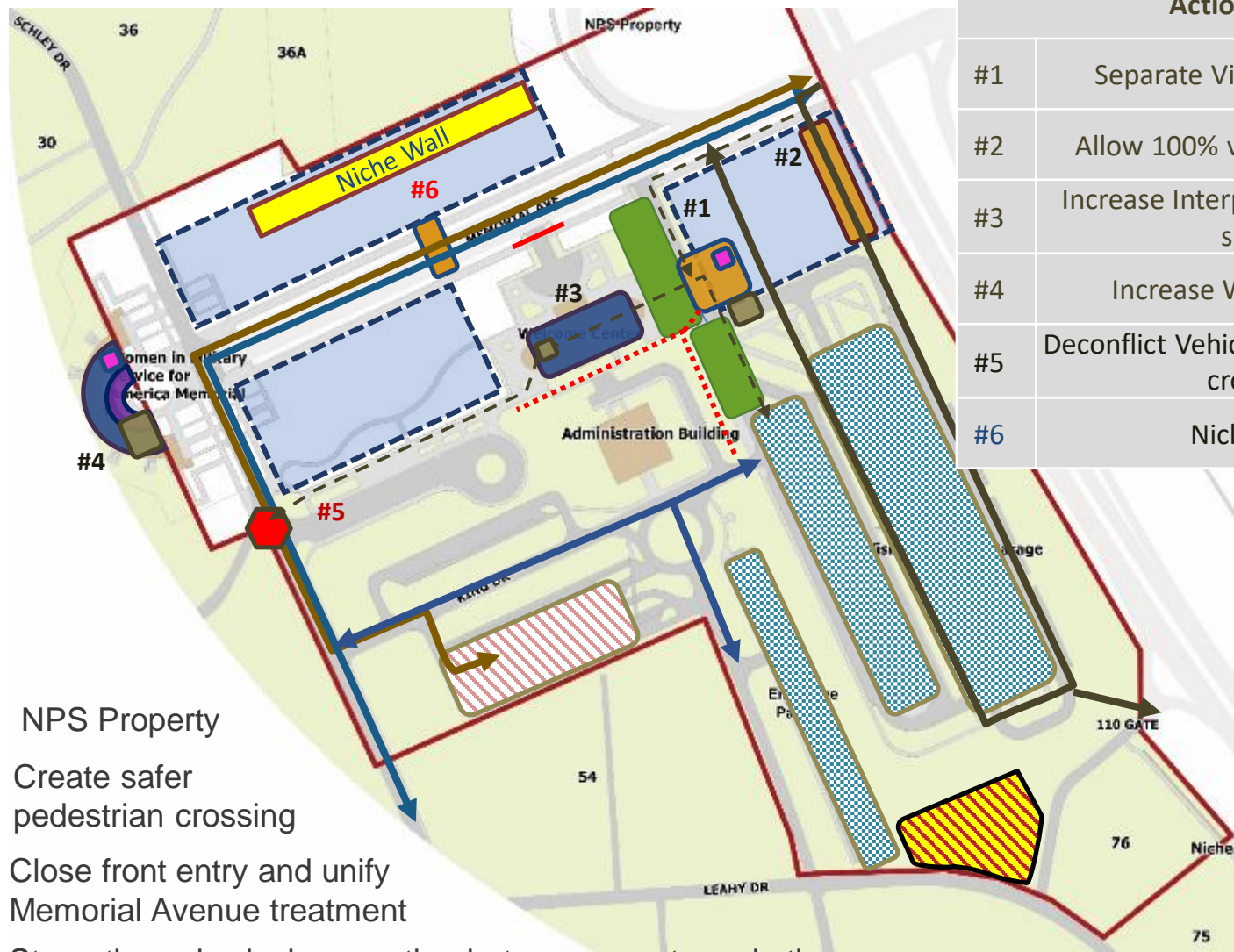
- Staff Ingress/Egress (Vehicular)
- Guest Ingress/Egress (Vehicular)
- Guest Ingress/Egress (Pedestrian)
- Funeral Attendee Ingress/Egress
- Vehicle Queuing for Funeral Proceedings
- Tram Pick-Up/Drop-Off
- Parking

NPS Property

Create safer pedestrian crossing

Close front entry and unify Memorial Avenue treatment

Strengthen physical separation between guests and other users



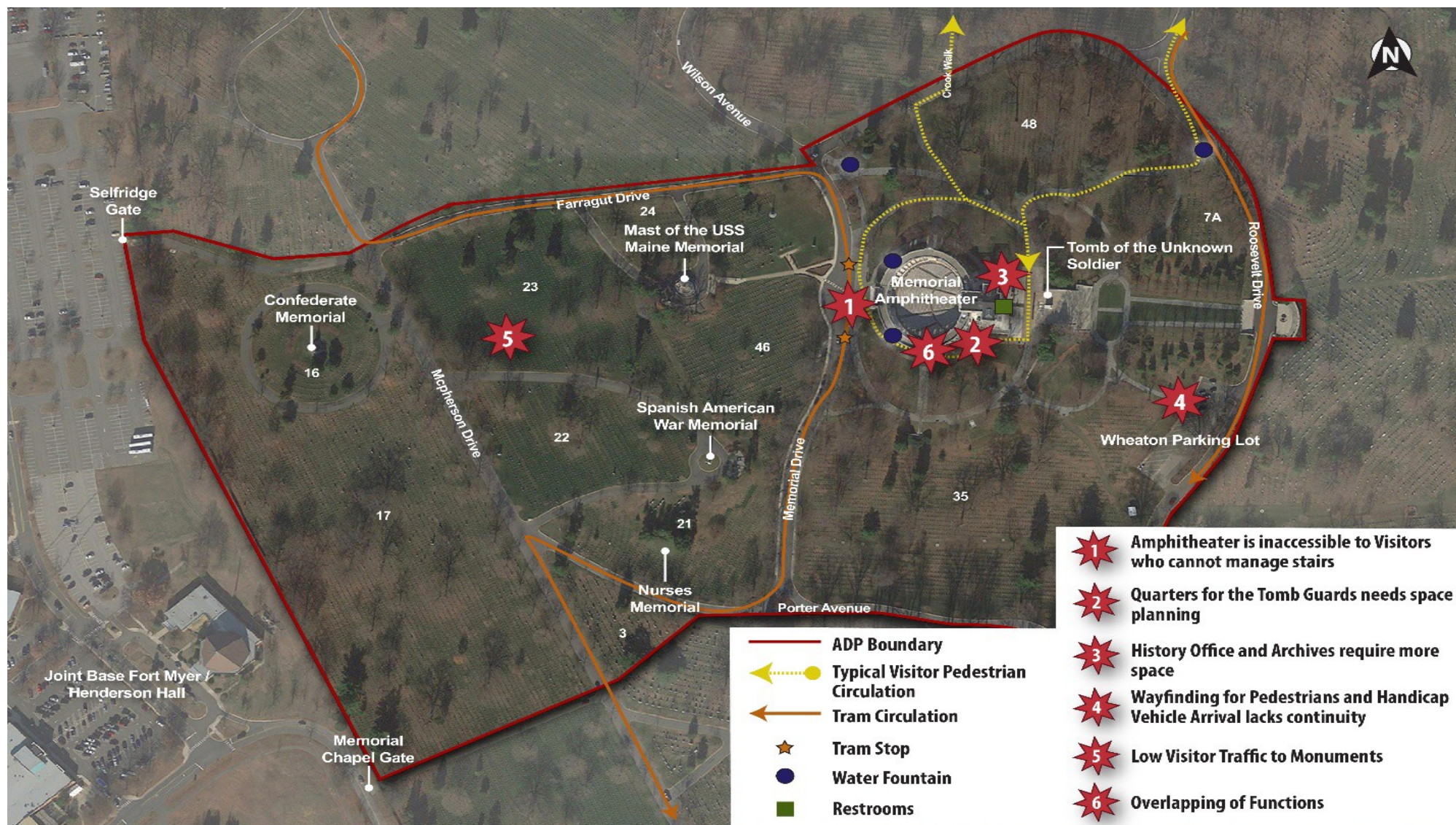
Actions

	Actions
#1	Separate Visitor Screening
#2	Allow 100% vehicle screening
#3	Increase Interpretive/Education space
#4	Increase WIMSA access
#5	Deconflict Vehicular / Pedestrian – crossing
#6	Niche Wall

ADP 2: Amphitheater

Functions in ADP

- Administrative Space
- Defined Vehicle / Pedestrian Circulation
- Gathering Space
- Housing and Overnight Quarters
- Interpretive Space
- Laydown/Storage Space
- Off-Street Parking
- Guest and Tour Support
- Ceremonial Space



 Interpretive Space
  Low-Profile Interpretive Space

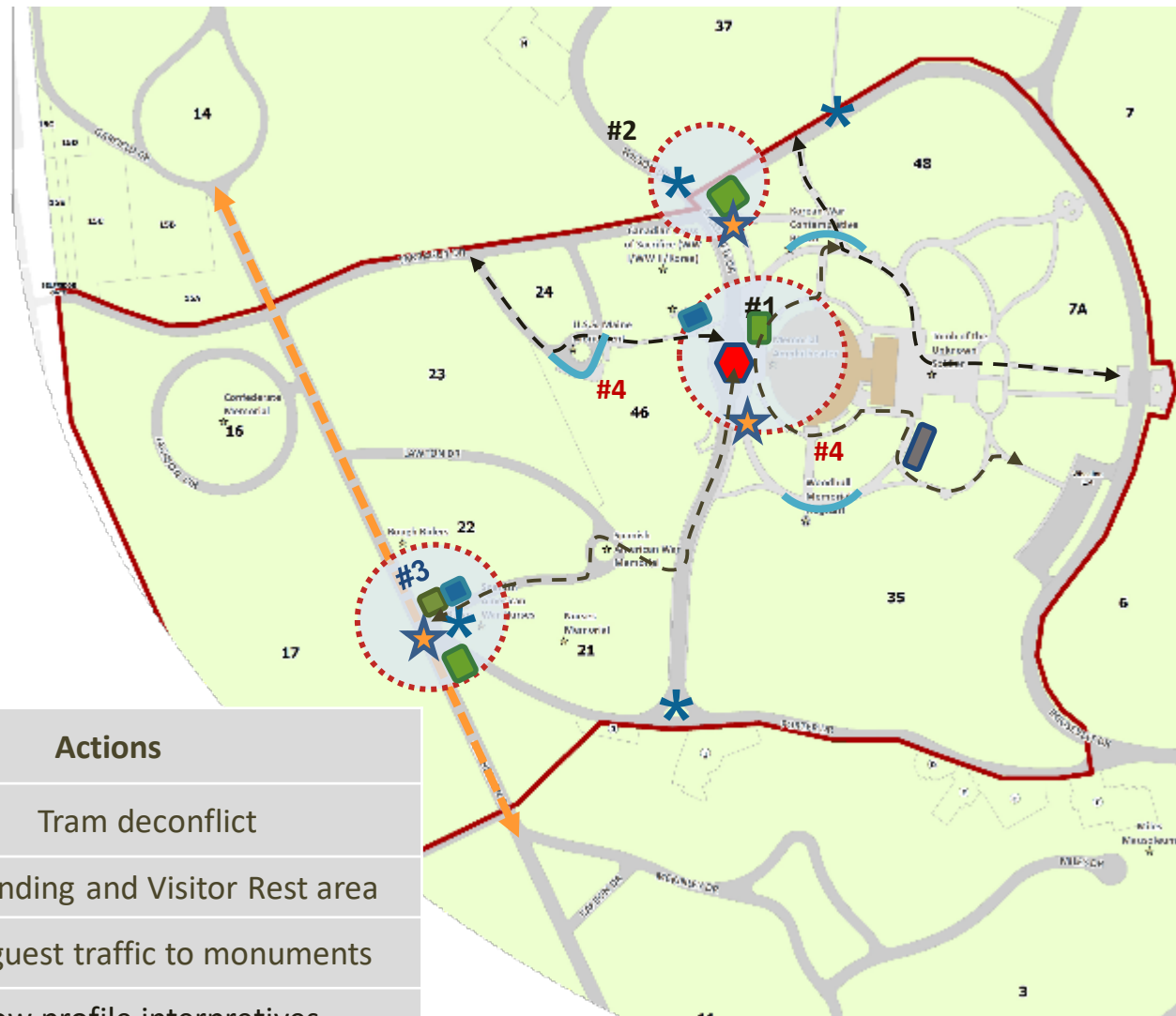
 Gathering Space

 Guest Amenities

 Housing/Overnight Quarters







-  Pedestrian Circulation (Staff, Guest)
-  Tram Circulation (Vehicular)
-  Tram Pick-Up/Drop-Off
-  Parking (Staff, Old Guard)
-  Wayfinding
-  Pedestrian Node
-  Create Safer Pedestrian Crossing

Actions	
#1	Tram deconflict
#2	Wayfinding and Visitor Rest area
#3	Low guest traffic to monuments
#4	Low profile interpretives



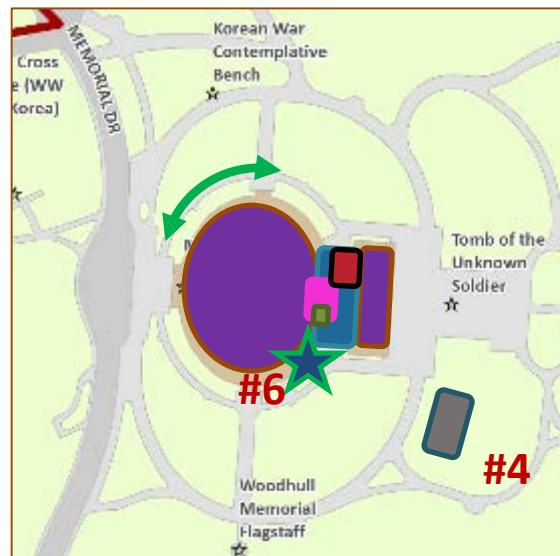
ADP 2 - Proposed Concept - Inside

Spatial Functions

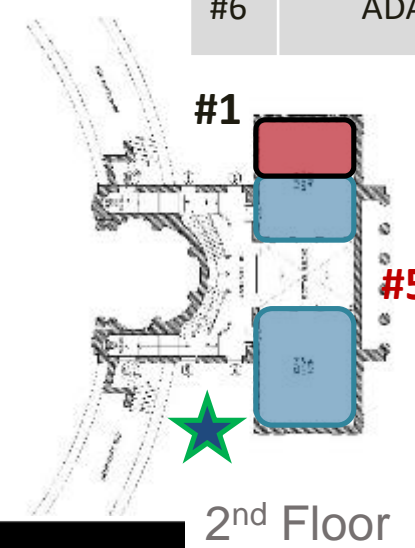
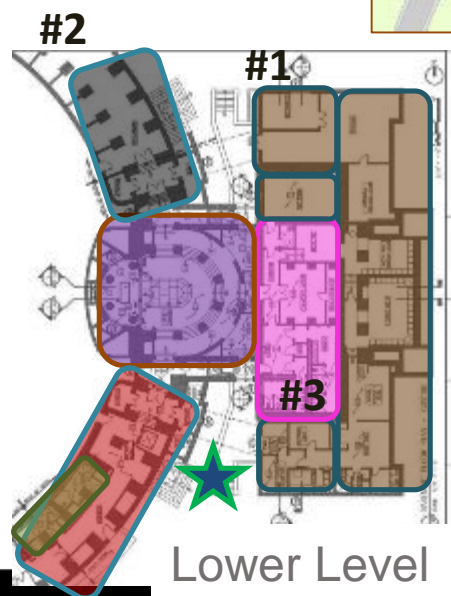
-  Housing Quarters
-  Interpretive/Education Space
-  Ceremonial Space
-  Administrative Space
-  Guest Amenities
-  Storage/Laydown Space

Circulation Functions

-  Proposed Elevator
-  Proposed Ramp



Actions	
#1	Remodel Guard Qtrs
#2	Catacombs for storage
#3	History Office remodel
#4	Increase/Improve Restrooms (new construction)
#5	Education Space
#6	ADA Elevator/Ramp



ADP 3: Service Complex

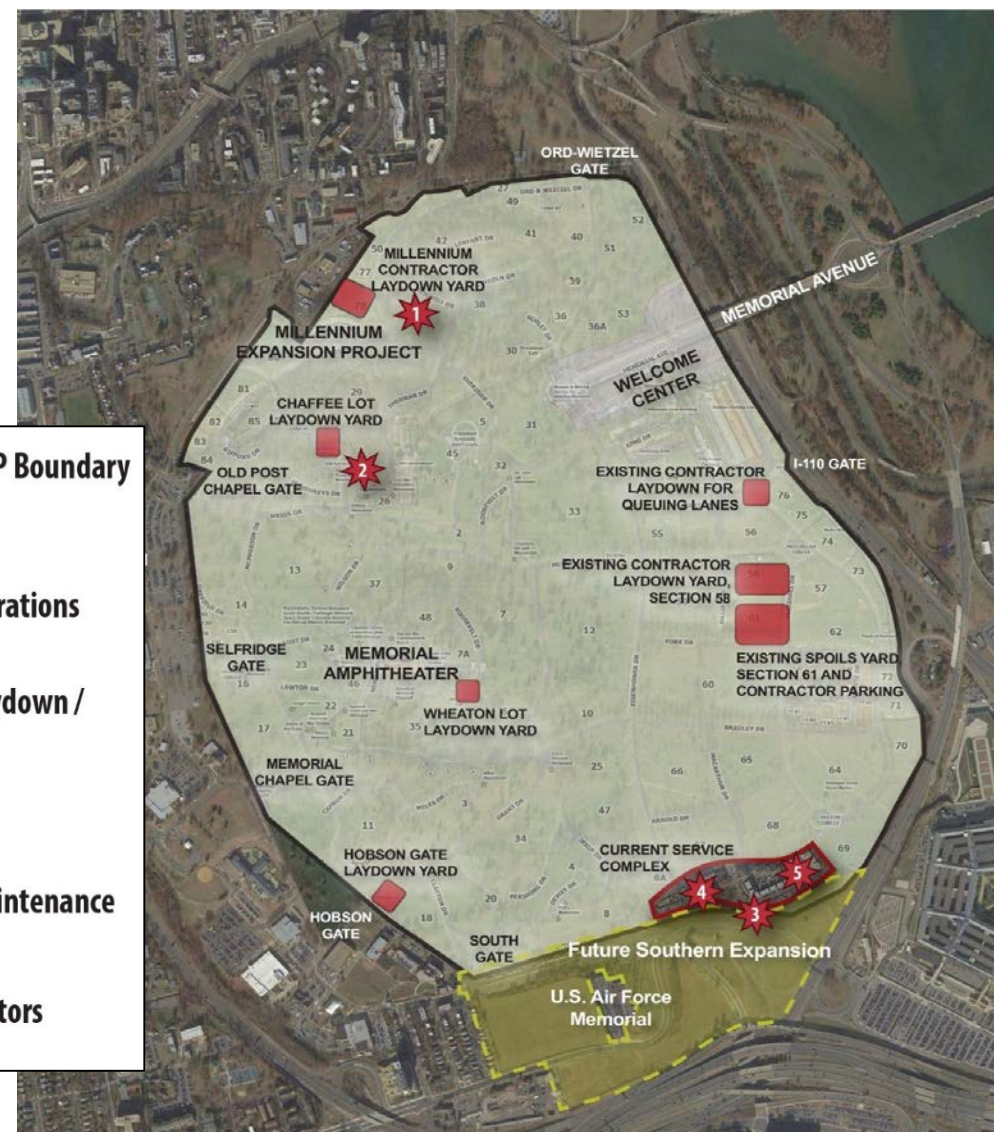


Functions in ADP

- Administrative Space
- Defined Vehicle / Pedestrian Circulation
- Storage/Laydown Space
- Logistics/Receiving
- Off-Street Parking
- Security Interface
- Vehicular/Equipment Maintenance






Current Service Complex ADP Boundary
Future Southern Expansion

- 1** Lack of Dedicated Satellite Operations
- 2** Excessive Distance between Laydown / Storage to Primary Work Site
- 3** Lack of Vehicle Screening
- 4** Lack of Vehicle Equipment / Maintenance Parking
- 5** Lack of Break Space for Contractors






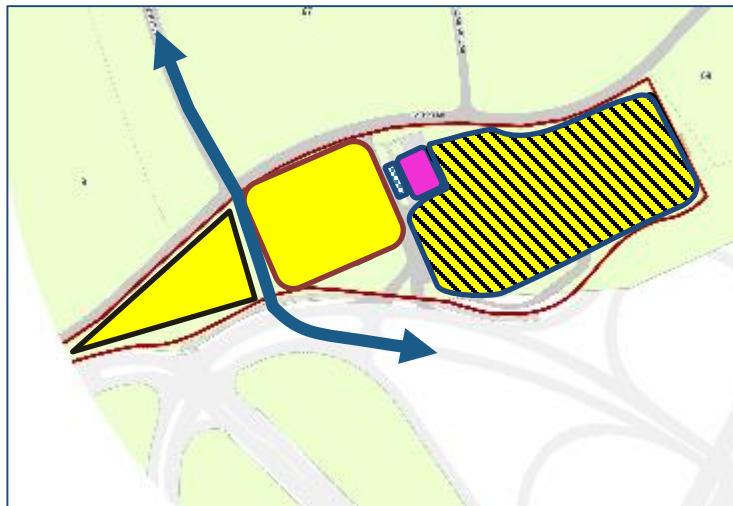
ADP 3 - Proposed Concept

Spatial Functions

-  Storage/Laydown Space
-  Security Screening
-  Burial Space
-  Vehicular/Equipment Maintenance
-  Administrative/Break Space
-  Guest Amenities
-  Laydown or Burial Space

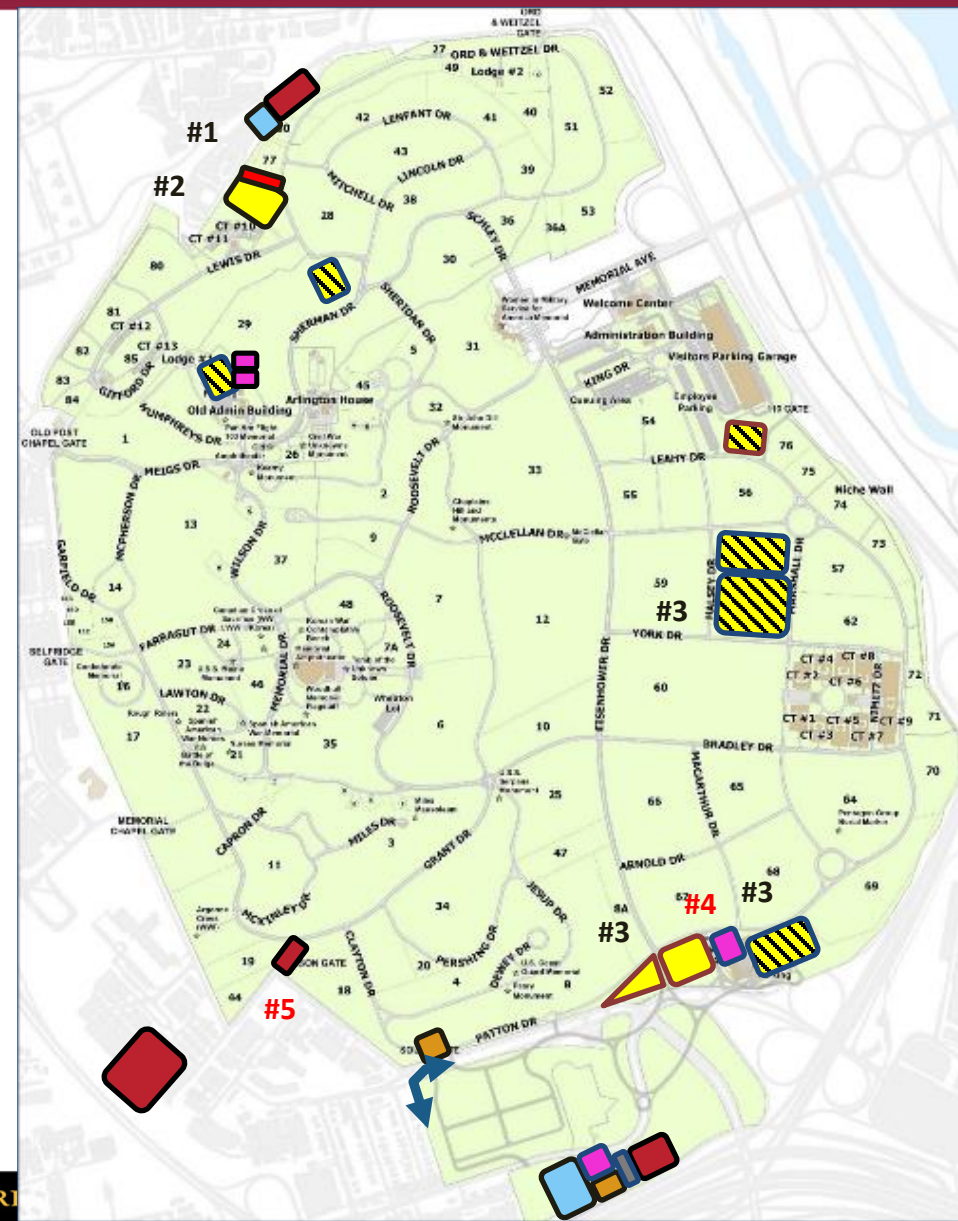
Circulation Functions

-  Parking
-  Developed Staff Ingress/Egress (Vehicular)
-  Developed Guest Ingress/Egress (Vehicular)



Actions

#1	Develop Satellite Operations/Laydown
#2	Coord w/ JBMHH MX joint-use
#3	Burial Phasing
#4	123 Repurpose – Visitor Center/IT Center
#5	Contractor Access



ADP 4: Meigs-Tanner






Functions in ADP

1. Administrative Space
2. Defined Vehicle / Pedestrian Circulation
3. Interments and Funerals
4. Gathering Space
5. Housing/Overnight Quarters
6. Interpretive Space
7. Laydown/Storage Space
8. Off-Street Parking
9. Security Interface
10. Guest and Tour Support
11. Ceremonial Space










ADP 4 - Proposed Concept

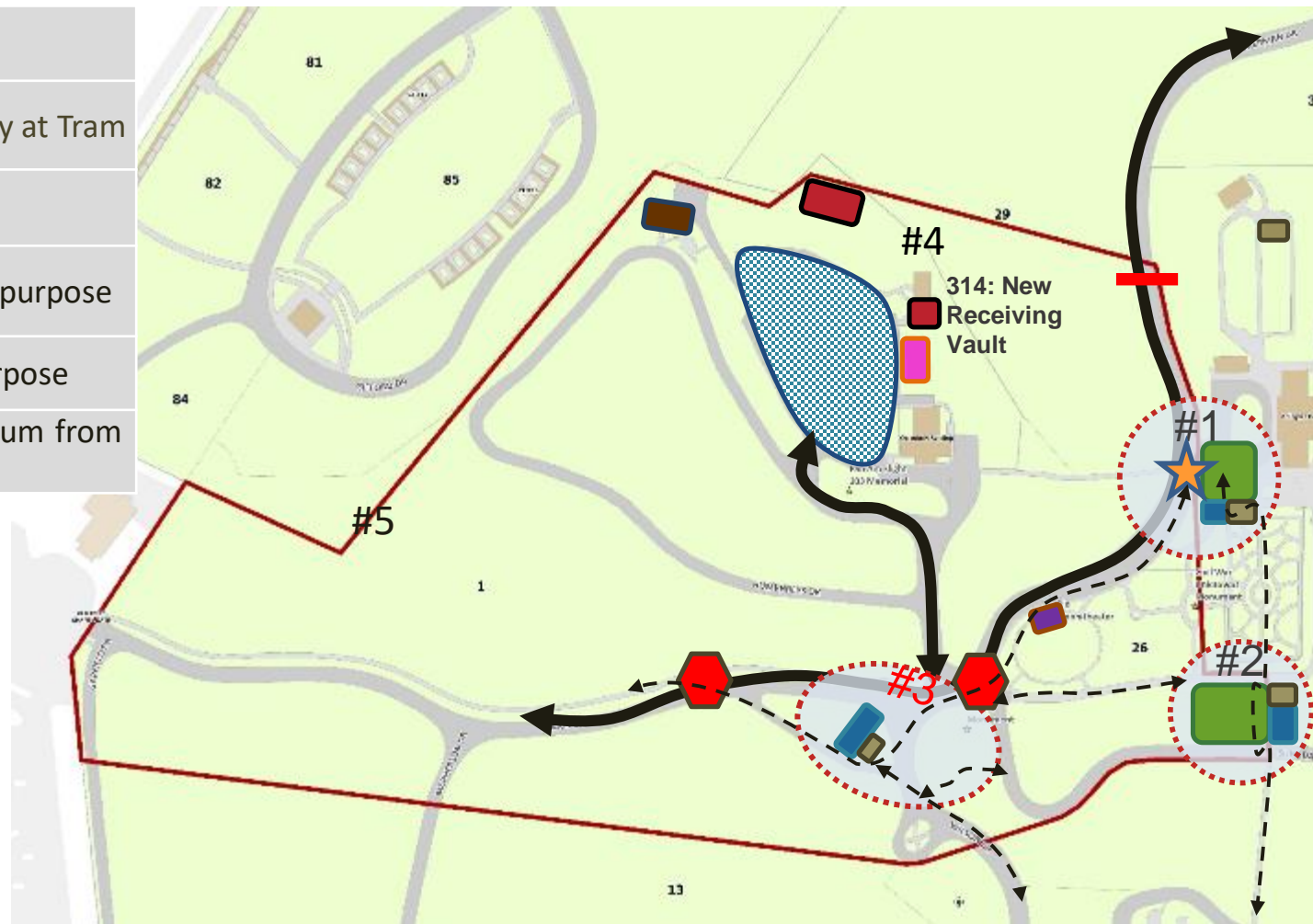
Spatial Functions

-  Guest Amenities
-  Interpretive Space
-  Administrative/Break Space
-  Storage/Laydown Space
-  Ceremonial Space
-  Gathering Space
-  Housing Quarters

Circulation Functions

-  Pedestrian Circulation (Staff, Guest)
-  Vehicular Circulation (Staff)
-  Tram Pick-Up/Drop-Off
-  Parking
-  Pedestrian Node
-  Create Safer Pedestrian Crossing
-  Close Sherman Drive to Pedestrian Traffic

Actions	
#1	Increase Visitor Safety at Tram
#2	Wayfinding
#3	Receiving Vault – Repurpose
#4	313 /314 – Repurpose
#5	Walk way to Millennium from Section 1

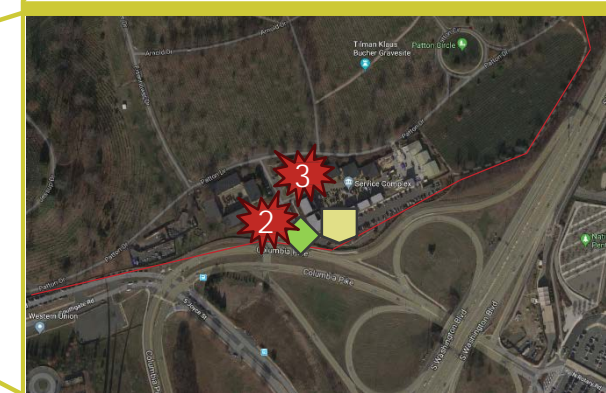
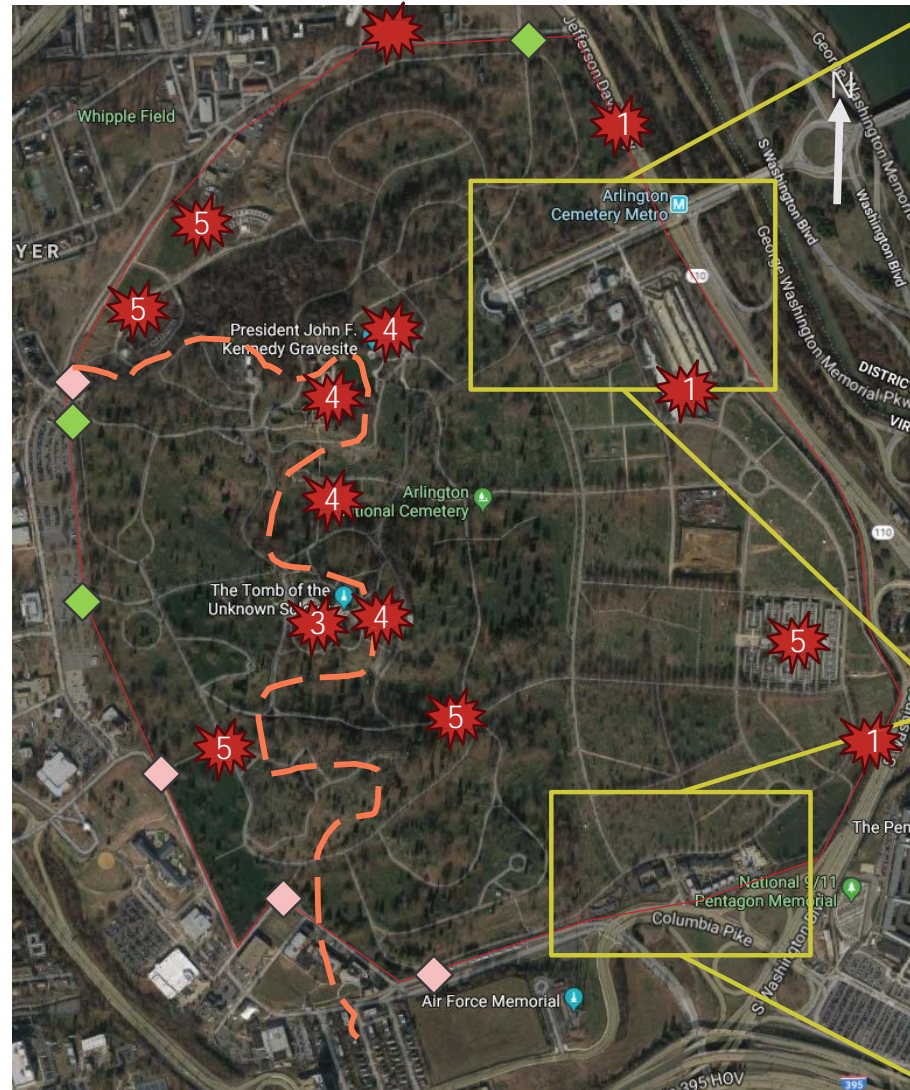


Security – Existing Conditions

- ANC Boundary
- ◆ Operational ACP
- ◆ Non-Operational ACP Existing
- ◆ Security Offices Existing Vehicle
- Checkpoint Visitor Screening
- Location Arlington Ridge
- - - Sightline











Areas of Focus

- | | |
|--------------------------------------|--------------------------|
| ★ 1 | Perimeter Vulnerability |
| ★ 2 | Primary Vehicular Access |
| ★ 3 | High Occupancy Structure |
| ★ 4 | Populated Areas |
| ★ 5 | Areas of Isolation |



Security Annex – Mitigating Actions

Security Improvements:

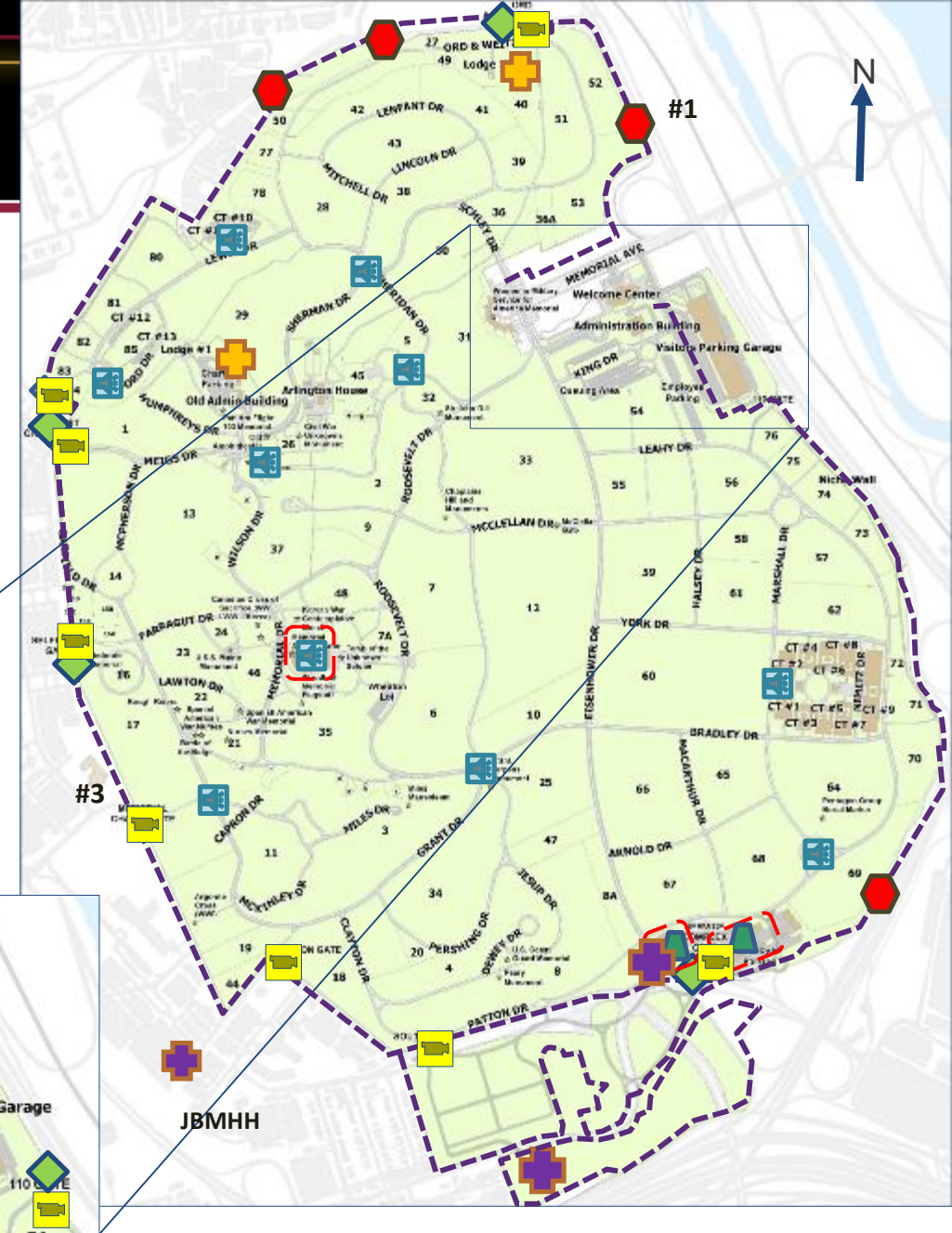
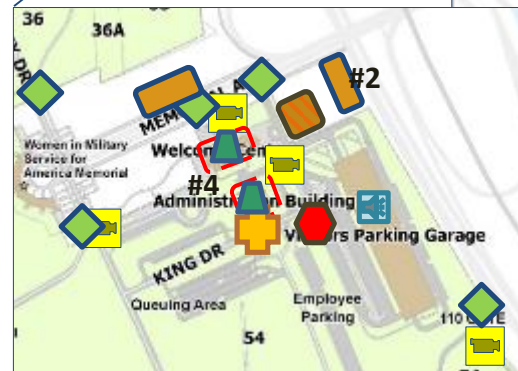
-  Mitigate Gap/Break in Perimeter
-  Vehicle Screening Pull-Off Areas
-  Unobstructed Space Around Building
-  CCTV Locations*
-  Operational ACP's
-  Primary OC
-  Alternate OC
-  Unidirectional Communications
-  Remote Screening
-  Building Hardening

Improved Security Concerns

Vehicular Attacks (ramming)
Active Shooters
Small Package Explosives
Insider Threats
Natural Hazards
Domestic/Familial Disputes

Actions

#1 Perimeter Vulnerability
#2 Vehicular Access
#3 CCTV
#4 Stand-Off
#5 Admin w/ Ops Ctr Comms






*Locations not exhaustive and would be in coordination with current efforts by JBMHH

Security Annex - Mitigating Actions

Addresses AT/FP Standards at Entry Corridor

Spatial Functions

-  Vehicle Screening
-  Remote Screening
-  Administrative Space

 Close front entry and unify Memorial Avenue treatment

 Controlled Perimeter

 Standoff to Roadway & Parking

 Unobstructed Space Around Building

 Pedestrian Barrier

 NPS Property

Circulation Functions

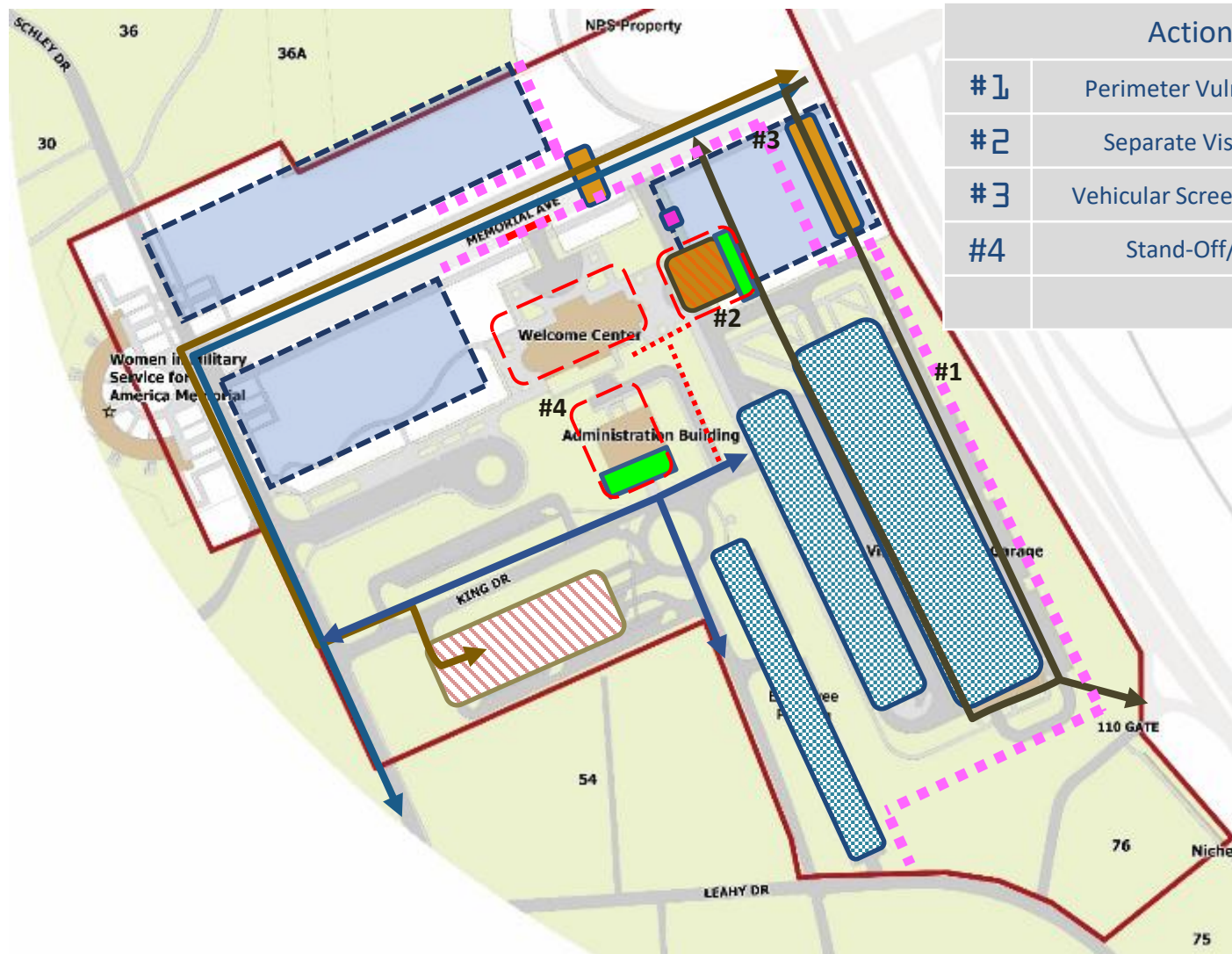
 Staff Ingress/Egress (Vehicular)

 Guest Ingress/Egress (Vehicular)

 Funeral Attendee Ingress/Egress

 Vehicle Queuing for Funeral Proceedings

 Parking



Actions

#1	Perimeter Vulnerability - CCTV
#2	Separate Visitor Screening
#3	Vehicular Screen Visitor/Funeral
#4	Stand-Off/Clear Areas

Schedule

- Planning Charrette – Nov '17
- ADP Deep Dives – Jan-Mar '18
- Comment Resolution of 35% draft – Apr 18
- Receive 65% draft – Jun '18
- Receive 95% draft – Sep '18
 - Public comment
 - CFA review – Sect 106
 - SHPO – DOPAA
- Revised 95% – Nov '18
- Final Master Plan – Dec '18



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HONOR ★ REMEMBER ★ EXPLORE

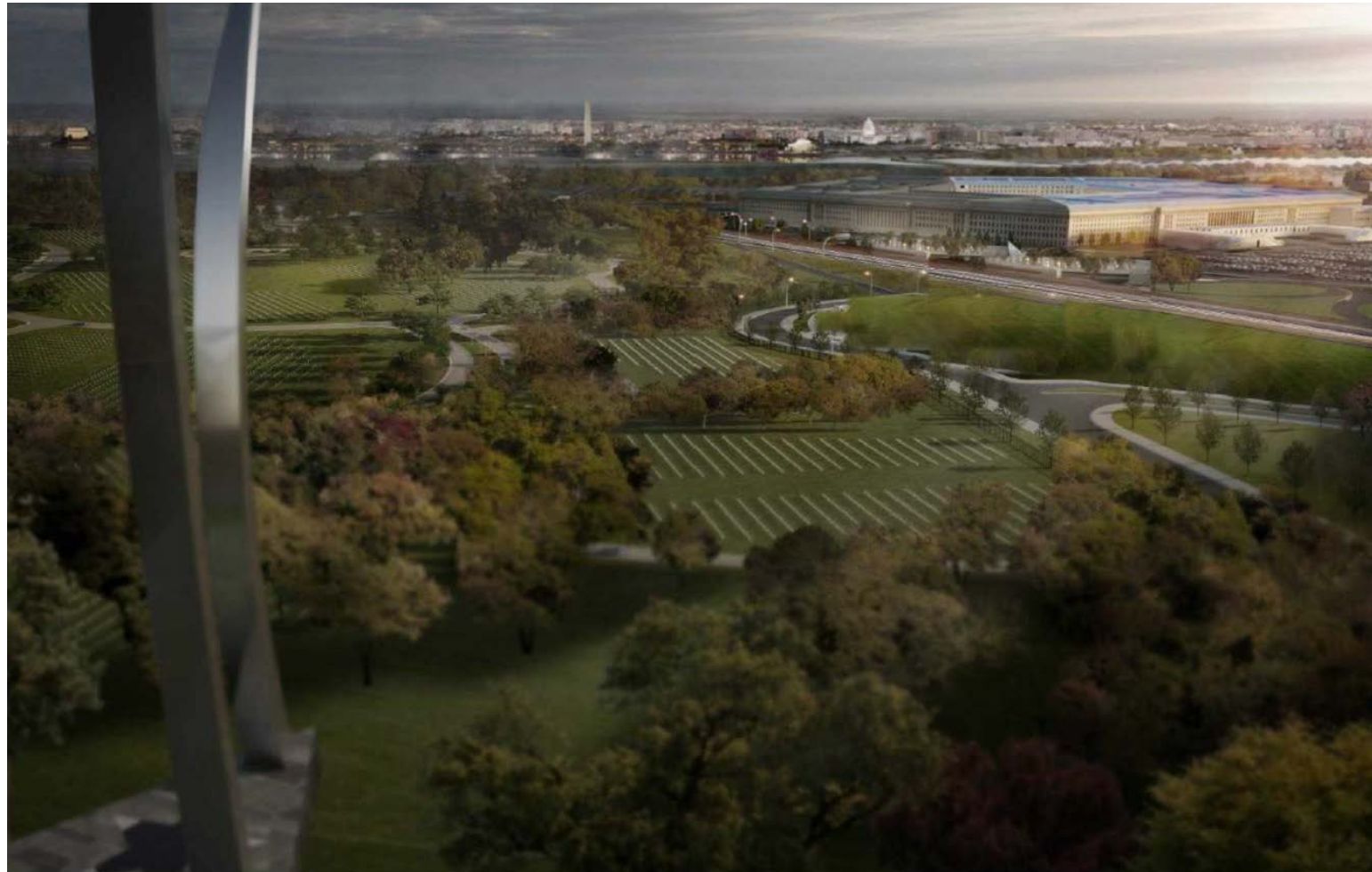


Southern Expansion Update

Advisory Committee
8 May 2018

UNCLASSIFIED

- Design Considerations & Studies
 - Yield
 - Character
- Operations Center Relocation
- ANC-AFM Connection
- Timeline

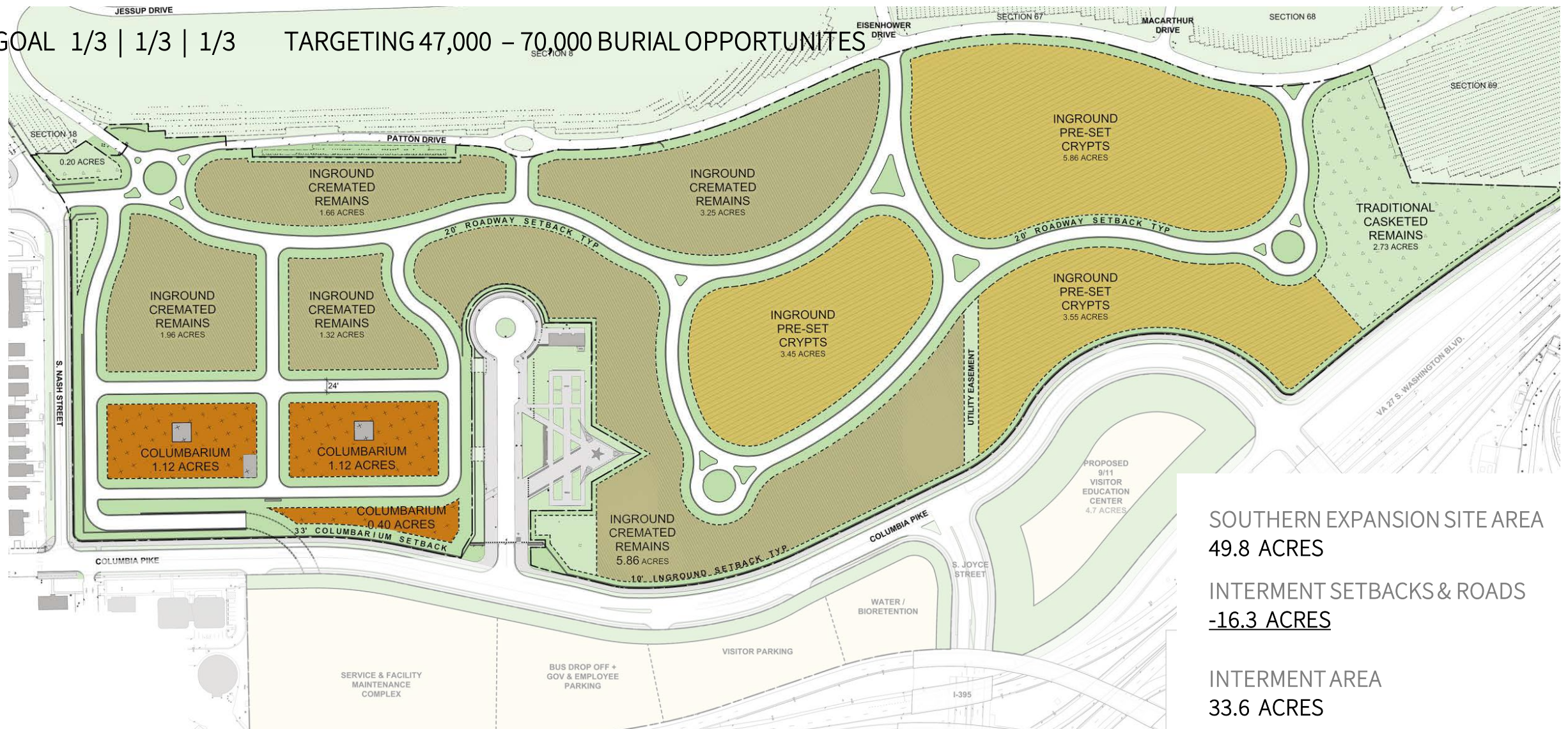


Executive Summary of Design Concept

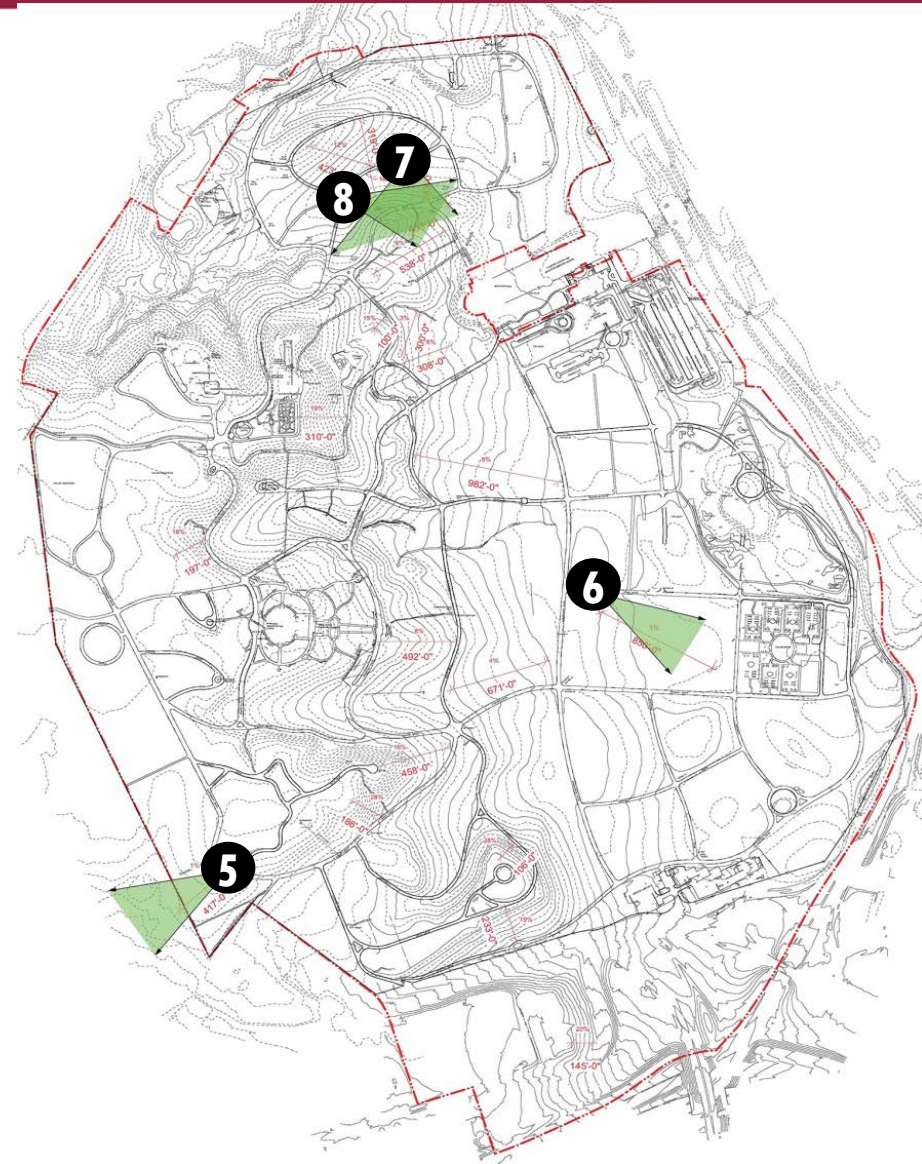


Interment Yield

GOAL 1/3 | 1/3 | 1/3 TARGETING 47,000 – 70,000 BURIAL OPPORTUNITIES



Fine Grading Analysis



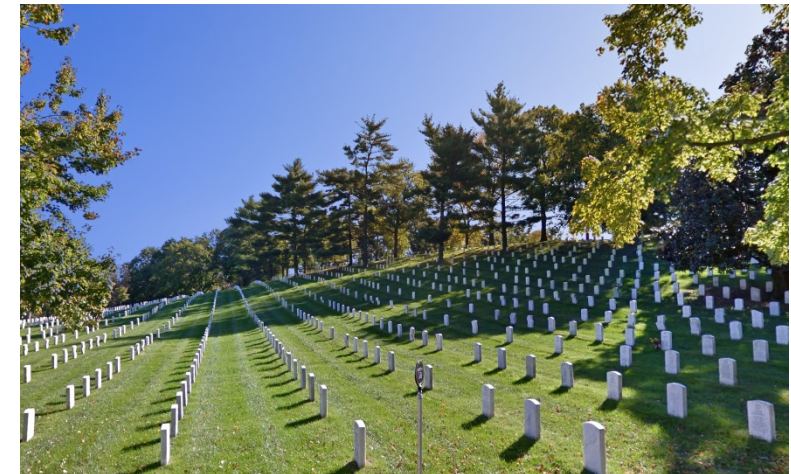
5 FROM GRANT DRIVE <1% SLOPE



6 VIEW FROM YORK DRIVE <1% SLOPE

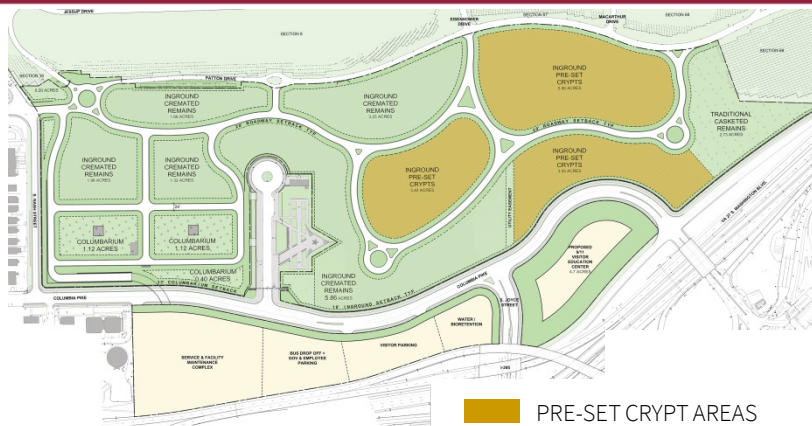


7 VIEW FROM LINCOLN DRIVE 8% TO LEFT / 12% DOWN



8 VIEW FROM LINCOLN DRIVE 12% TO LEFT / 16% RIGHT

Grading with Preset Crypts



LOCATION PLAN



FLAT AND SLOPING ONE DIRECTION 5% MAX
MILLENNIUM EXPANSION, ANC



UNDULATING GRADES SLOPING BOTH DIRECTIONS



UNDULATING GRADES VARY FROM 5% TO 16%
FOREST LAWN MEMORIAL PARK, BURNABY, BC



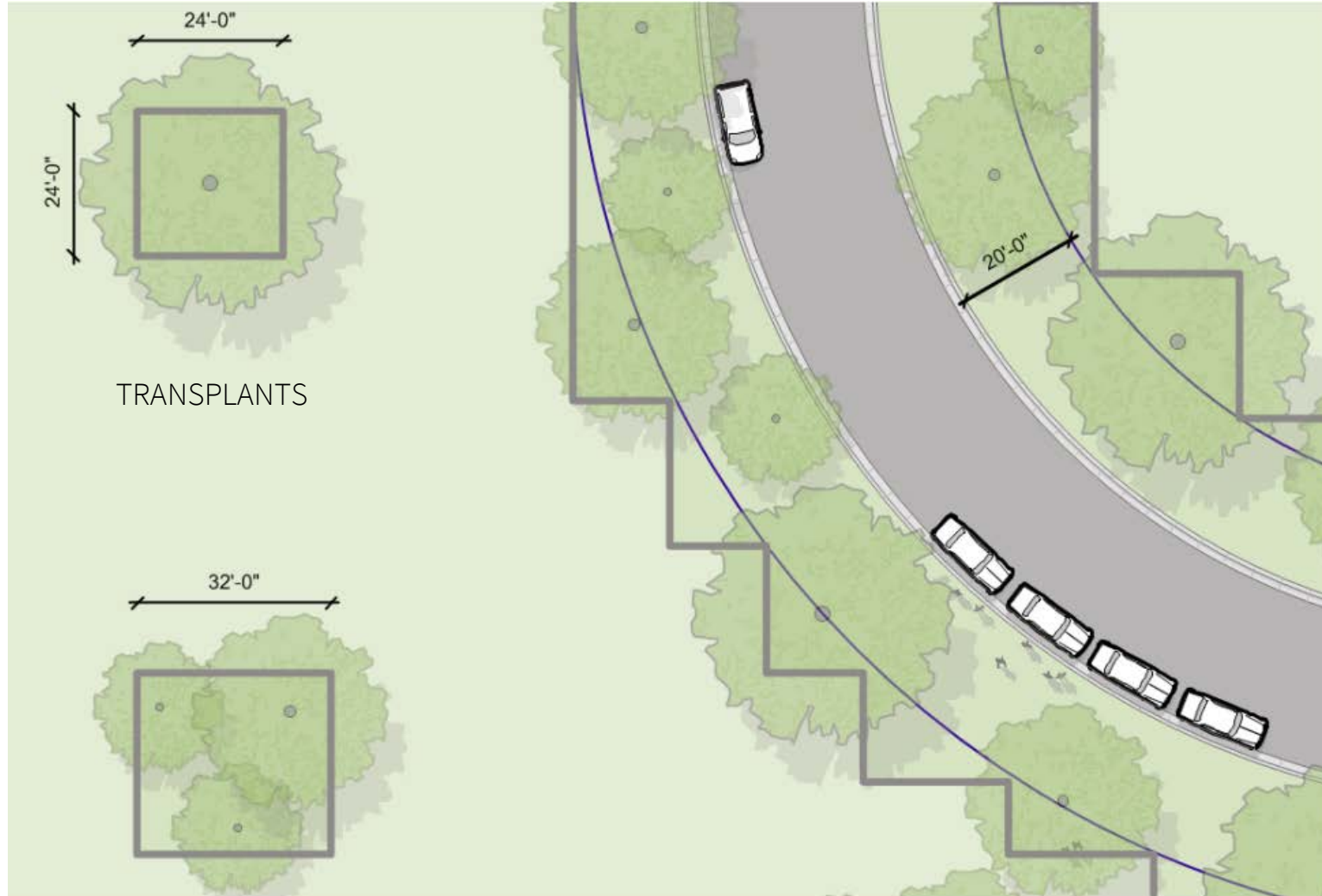
Planting Plan



Clumping Trees



Planting Locations

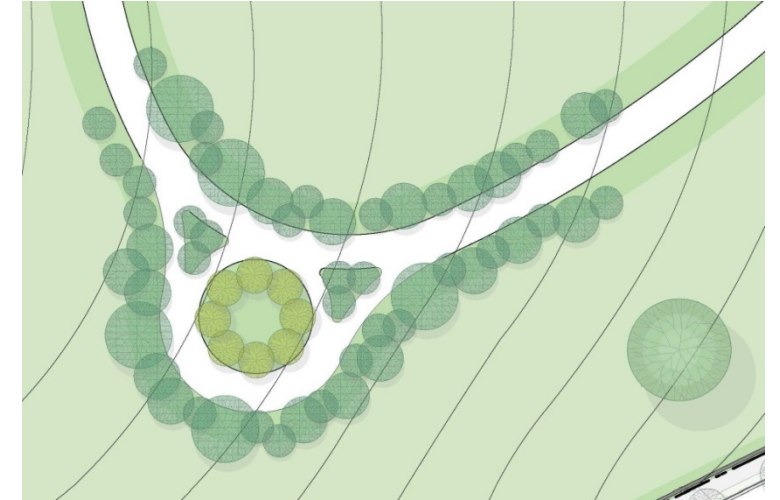


TRANSPLANTS

32'-0"

SPECIMENS

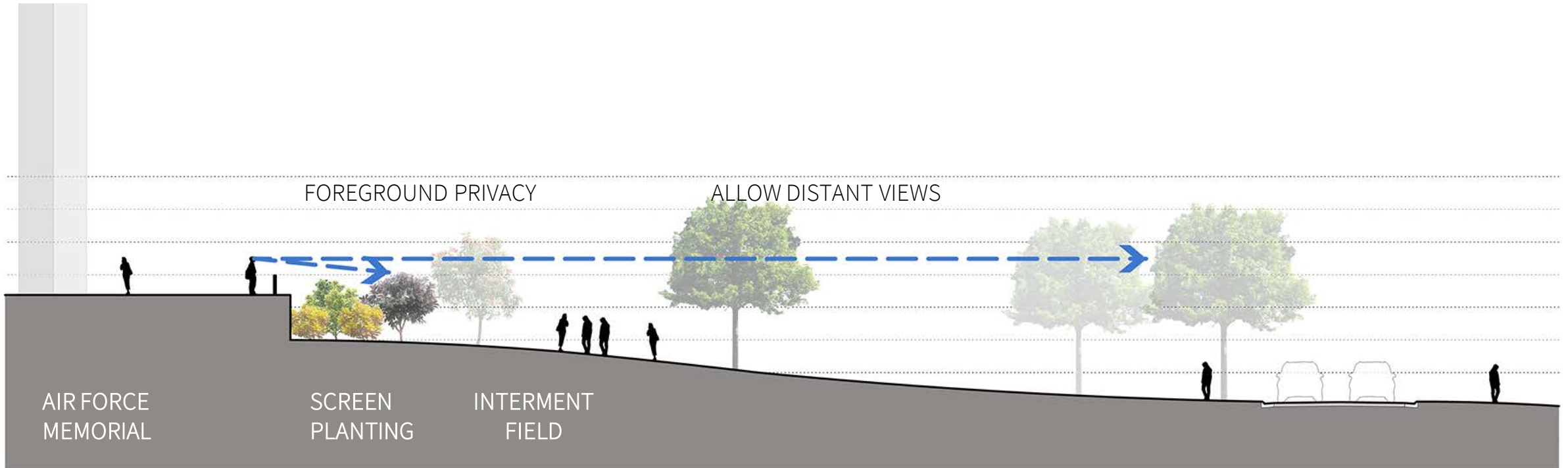
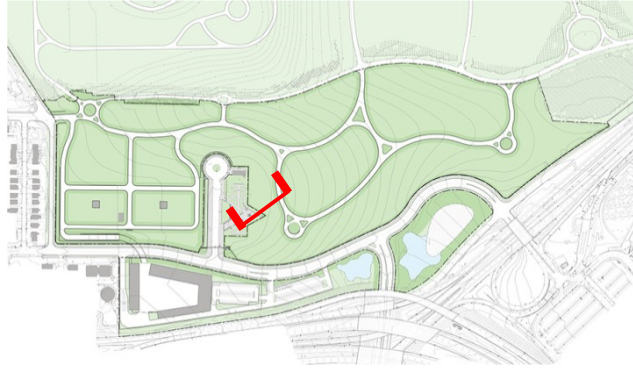
CLUMPS



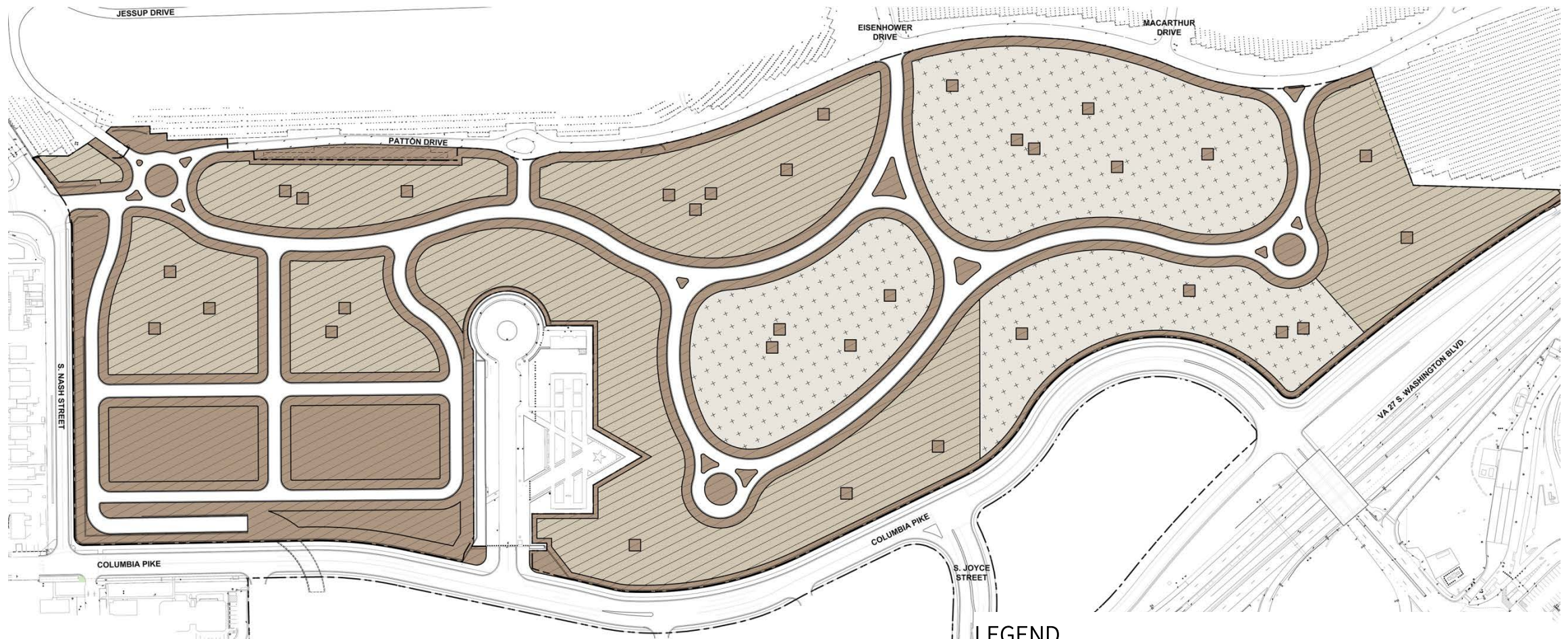
CLUMPS AT INTERSECTION

Plant Screening of Interments by the AFM

SECTION LOCATION PLAN



Soils Plan



LEGEND

- SOIL TYPE A: HORTICULTURAL SOIL; 4' DEPTH; 15.18 ACRES
- SOIL TYPE B: HORTICULTURAL SOIL; 18" DEPTH; 13.02 ACRES
- SOIL TYPE C: HORTICULTURAL SOIL; 18-24" DEPTH; 12.76 ACRES

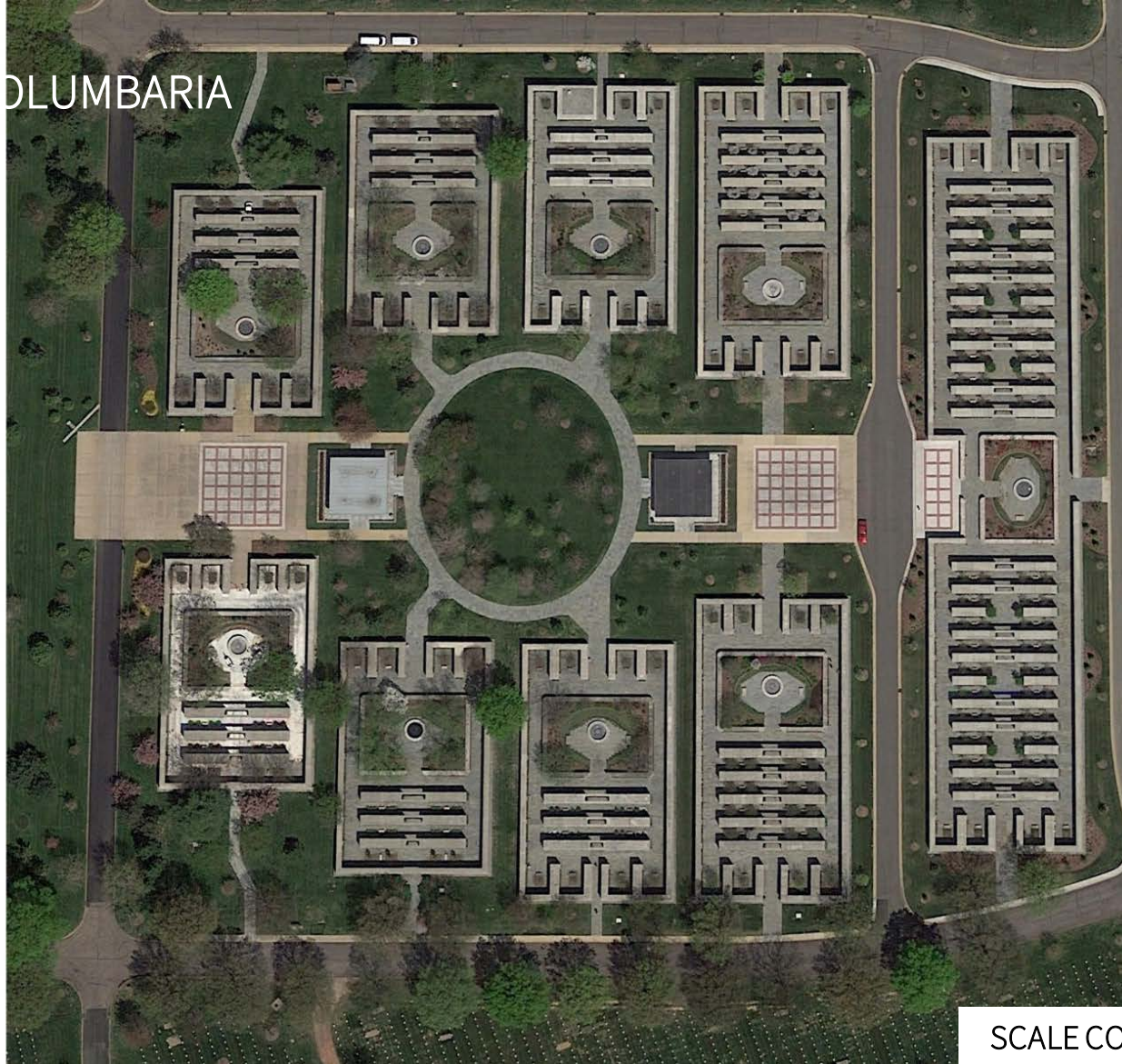
Columbaria



MILLENNIUM COMMITTAL SHELTER 1



MILLENNIUM COMMITTAL SHELTER 2



COLUMBARIUM SECTION 63



SOUTHERN EXPANSION

SCALE COMPARISON

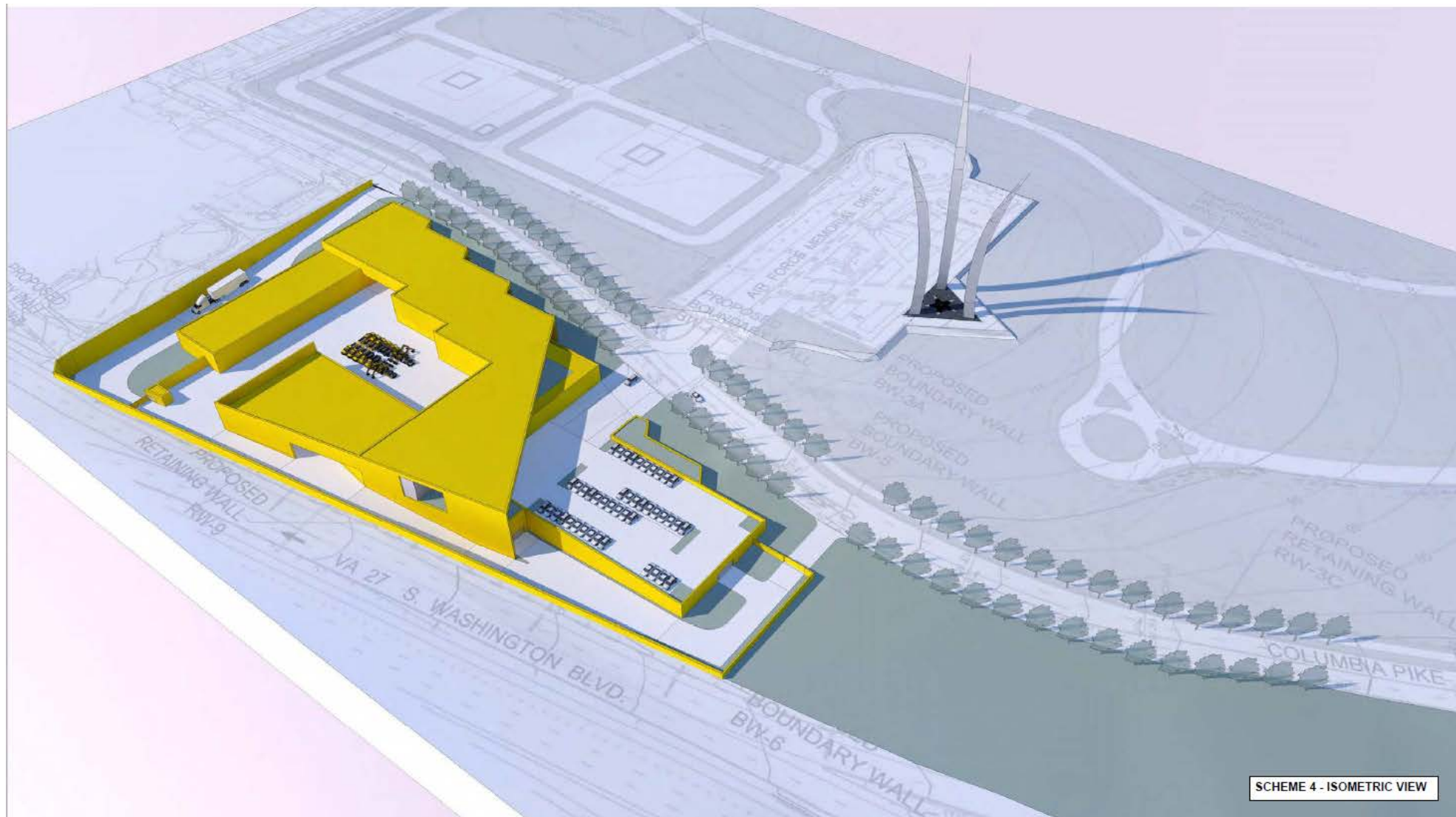


VIEW ACROSS TO EXISTING CEMETERY SECTION 8



ANC Operations Center Relocation

- **Public Parking on garage top level (designing for 100 spaces)**
- **Direct access to AFM via signalized pedestrian crossing**
- **ADA compliant**



Connection Discussion

- ❑ Security screening
- ❑ Pedestrian vs. vehicular access
- ❑ Modifications to entry drive, circle, parking, other?

- ❑ 15% design – Jan '18
- ❑ CFA – Feb '18
- ❑ PMF Concept Review – Feb '18
- ❑ NEPA – Sep '18
- ❑ DAR – pending \$ and
authorities for land acquisition
- ❑ 35% design – expect fall '18
- ❑ 65% design – spring '19
- ❑ 100% design – fall '19

