OKAY---
What DO Owners Want?”
Owners are Rulers

and Rulers have the gold

Whoever has the gold makes the rules
But the Rules
(What We Want You to Do)
are often written in a “secret code” only the initiated understand.
Instructions (Written in the secret code)
Instructions (Written in the secret code)
Instructions (written in secret code)
VA “Laws” (Objectives for BIM Use)

- Improve Access to Healthcare
- Execute a Facility Information Lifecycle Approach
- Validate the Proposed Design Solution meets VA’s Functional Needs
- Achieve Improvements in Construction
- Enhance Communication and Feedback
Technical Information Library (TIL)

THE SOURCE for VA's ELECTRONIC Design and Construction Information

TIL Feedback - we welcome your suggestions at til@va.gov

Visit the TIL CATALOG for comprehensive listing of available standards

What’s New & Notable
Message From Secretary of Veterans Affairs, 50th Anniversary of National Historic Preservation Act
  - Standards Updates
    - March 2, 2017
    - Previous Issues
  - Social Cord Injury/Disorders Center

TIL Quick Links
  - A/E Submission Rqmts
  - GBCG Prototype
  - Commissioning
  - Cost Estimating
  - Design Guides (graphical)
  - Design Manuals
  - Equipment Guide List
  - Historic Preservation
  - IRC Section 179D Contacts

QUICK LINKS
- Office of Acquisition, Logistics and Construction (OALC)
- Office of Small and

CFM TIL RESOURCES
- CFM Home
- Til Home
- TIL CATALOG
  - product listing A to Z
    - Alerts
    - DESIGN CRITERIA
      - BIM & CAD Standards
- AVE Submission & Review
- TIL Site Map
- TIL Standards from FTP site
- Contact Us

#BIMForumED
VA BIM and CAD Standards

THE SOURCE for VA's ELECTRONIC Design and Construction Information

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VA BIM Standard

VA BIM Manual v2.0 - 02-2017 change summary
  Appendix 1 - Room Data Sheet Example
  Appendix 2 - Maintaining Type and Instance Data when Replacing Objects
  Appendix 3 - VA Spatial & Equipment Data
  Appendix 4 - Interior Partitions, Fire-Rated Partitions & Smoke Barriers
  Appendix 5 - Instructions for Geo-Referencing

VA Drawing Deliverable Requirements (DDR) v1.0
  Appendix A - VA Sheet Identification
  Appendix B - VA Sheet Example
  Appendix C - VA BIM/CAD Folder and Filing Structure

Drawing Sheet Templates
  VA 30x42 Sheet - .dwg file
  VA 30x42 Sheet - Revit Family file
  VA Shared Parameters - Revit Text file

VA FM Data (Data requirements for Facility Management)
NEW CHANGES - LEGAL

• The Design-Intent Model is the AE’s primary design deliverable to VA.

• The Design-Intent Model takes precedence over the 2D drawings, and the non-editable federated Design-Intent Model (NWD or equal) will be the Instrument of the Contract used for construction award.
NEW CHANGES – PROCESS

SEPS2BIM.ORG
NEW CHANGES - MODELING

- **Geo-Reference** Models to USGS Survey Marker
- **Site Civil** including site plan features, utilities above or below ground inside and outside project boundaries to service connection points
- **All building** structures, equipment, and systems (MEPFT)
NEW CHANGES - MODELING

• Construction Details

• Design and Construction Coordination
  • Space Reservations for access, repair, equipment removal and replacement, tools, Medical Technology Infrastructure

• Commissioning
Fit-for Purpose Design Validation

- Walking Routes
- BIM Interactive Reviews
  - Visually Monitored Spaces
  - Fire Partitions, Emergency Exiting, Accessibility
  - Communicating Design Aesthetic
- Phasing Plans
- Design & Construction Coordination Management
The Relative Values of Building Lifecycle Costs per Dollar Expended

Planning 0.2 cents
Design 0.9 cents
Construction 8.7 cents
Activation 3.2 cents
Operations 87 cents
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<th>Attribute Group</th>
<th>Attribute</th>
<th>Data Type</th>
<th>Unit of Measure</th>
<th>COBie Tab</th>
<th>COBie Column</th>
<th>Maximo ID</th>
<th>Provided By (VA) Owner (AE Arch/Eng GC Construction)</th>
<th>Deliverable Type</th>
<th>Definition</th>
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<td>COBie</td>
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<td>N/A Component</td>
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<td>COBie</td>
<td>Freestext asset identifier, more detailed than description</td>
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<td>COBie</td>
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NEW CHANGES - AS-BUILT DOCUMENTATION

• FM Models – Building and Site
• As-Built Drawings (2D from FM Model)
• VA FM Data File – Excel/COBie
• Construction Models
• Linked Files (for Facility Management Operations)
NEW CHANGES - Instructions
Basketball

Start at 0:12 and end at 0:35

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NEW CHANGES - Instructions
NEW CHANGES - Instructions
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