

CORROSION CONTROL

Anniston Army Depot

February 9, 2010

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Report Documentation Page

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ON-GOING ACTIONS

Coatings

- Oil/lube select parts.
- Anodize, Chrome, and Black Oxide (et.al.)
- Substrate Prep and CARC paint.

Stowage

- Climate controlled storage (limited).
- Weather resistant (rain, uv) stowage.
- Right Material – Right Time



In Process Actions

Bldgs 129
and 114

- Installation of new cleaning technologies for small arms overhaul and plating operations that incorporate rust inhibition into final stage.

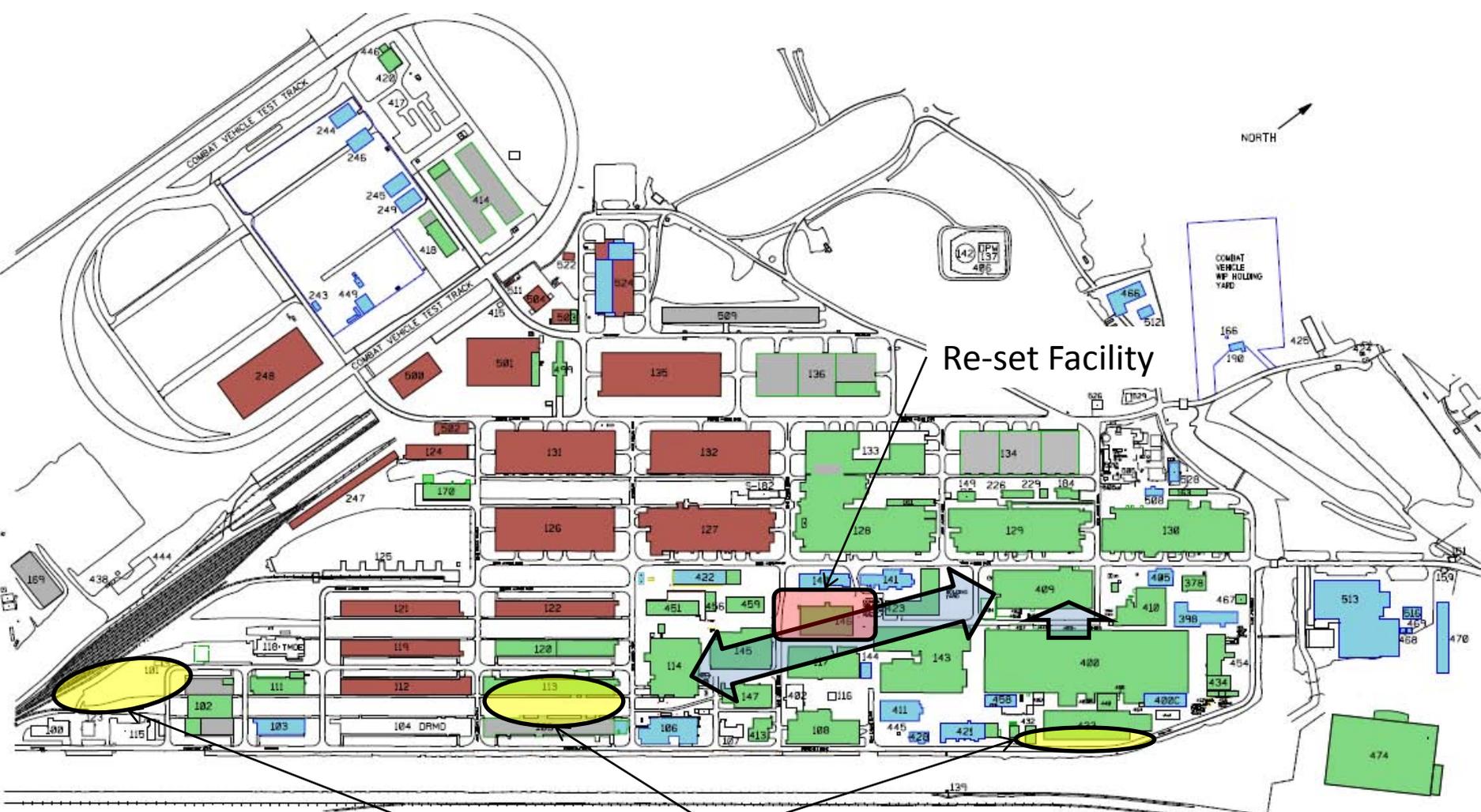
Bldg 409

- 'Single Piece' flow through Bldg 409.

Paint
Application

- Advent of Automated Proportioners (eliminate hand mixing of two component coatings).



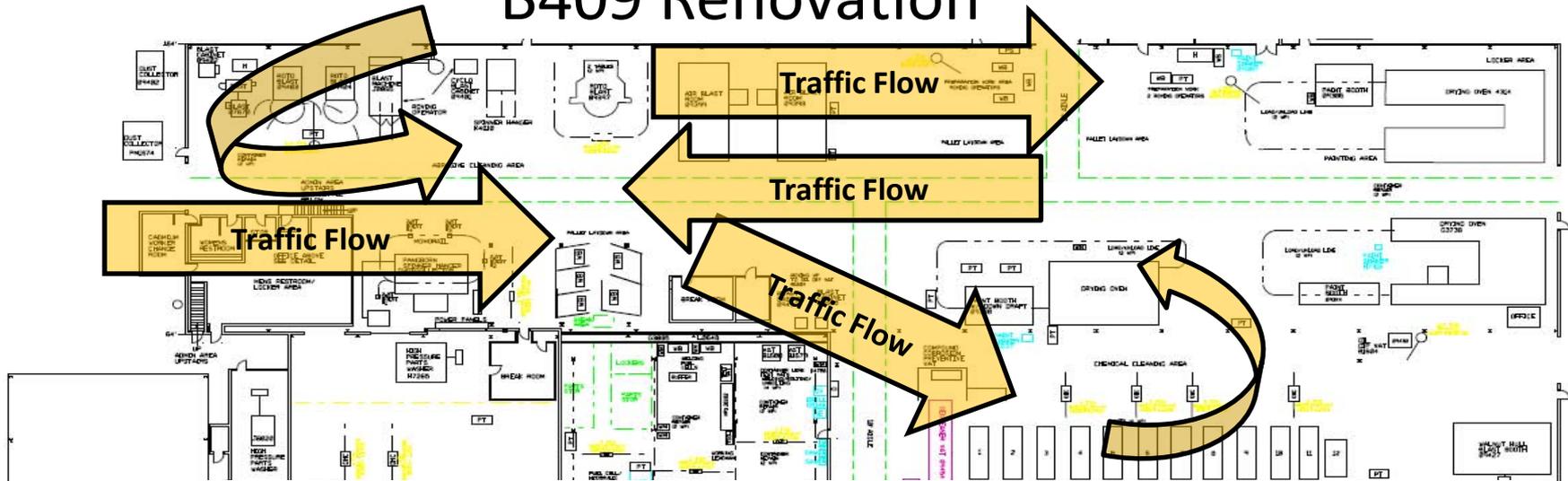


Re-set Facility

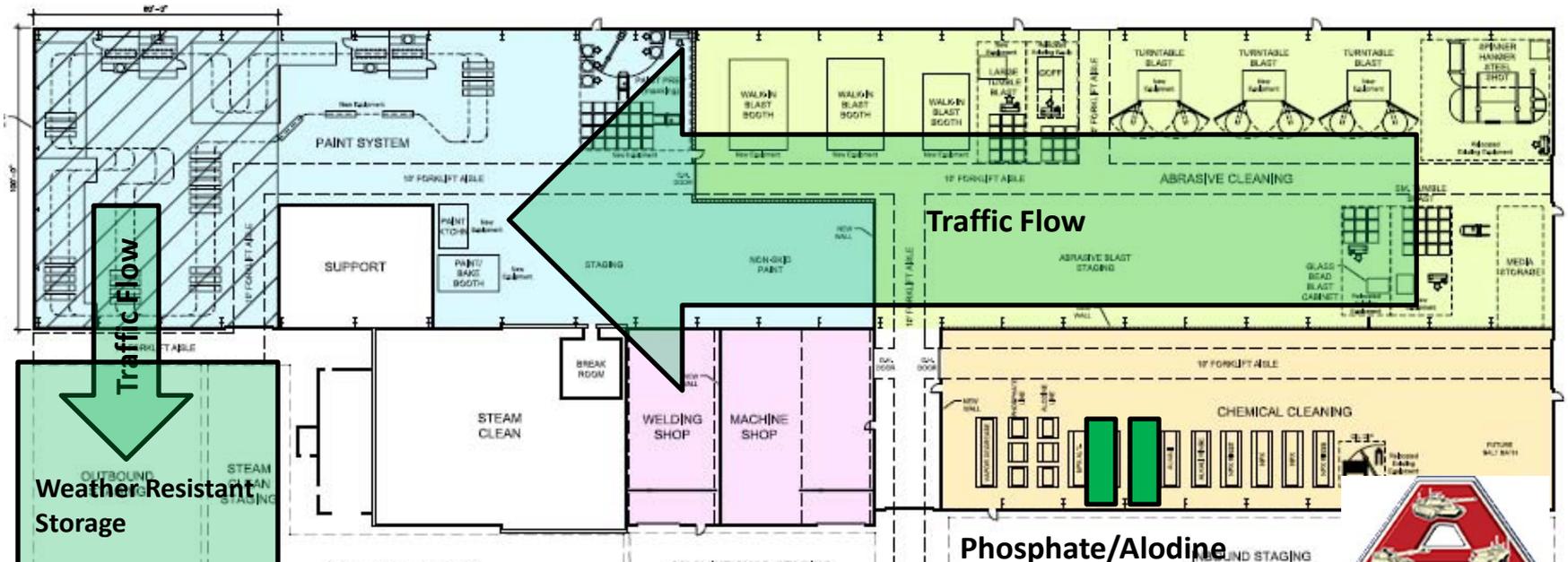
Outside Storage



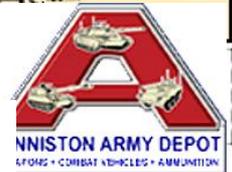
B409 Renovation



Components pass through 'dirty' processes multiple times prior to paint



Single Piece Flow (Degrease – Stripping – Blasting – CARC Coating)



Wheeled Vehicle Re-set Facility

Automated Wash Rack

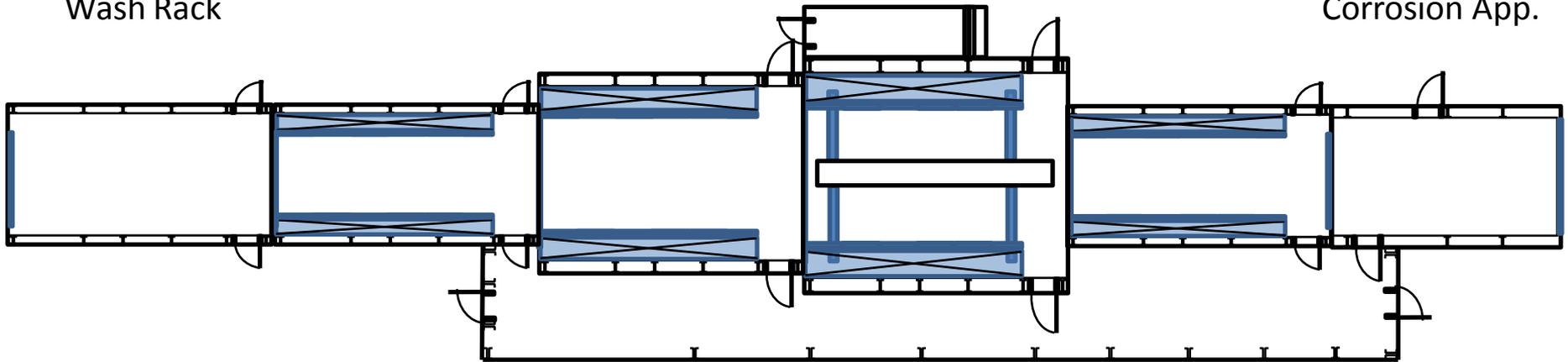
Dehydration

Prep Area

CARC Application

Flash-Off Oven

De-mask and Anti-Corrosion App.



Planned Future Actions

Survey

- Perform a corrosion survey to assess impact of corrosion on depot activities and identify opportunities to reduce corrosion.
- Analyze data and prioritize those actions that will yield the greatest impact for corrosion prevention.

Routing

- Evaluate parts staging procedures to determine if parts routing optimization can minimize corrosion.

Stowage

- Evaluate need for improved infrastructure for parts stowage and staging.



Planned Future Actions Continued

Inhibitor

- Evaluate the benefits of applying corrosion inhibitor to the finished product prior to delivery to customer.
- Implement advanced cleaning system incorporating corrosion inhibitors to replace Building 409 solvent cleaning.

Process Water

- Evaluate quality of supply water for aqueous based processes and determine if water polishing can reduce corrosion.

Work Practices

- Establish Corrosion Prevention mind-set and work practices internally as a function of Lean Manufacturing and Environmental initiatives.



Challenges

Resources

- Limited funding.
- Limited manpower.

Technical Assistance

- For cleaning systems design, wash rack optimization and water polishing requirements.
- For data collection, data review, interpretation and reporting.

Infrastructure

- Limited space.
- Proper environmental controls for corrosion prevention.



Challenges Continued

Communication

- Receiving information from the customer on corrosion issues in the field.
- Internal communication on what changes and initiatives are being made at ANAD.

