

Livingston High School Design Update



Schedule

- ◆ 12 Months Design
- ◆ May 2006 35%
- ◆ Sept 2006 60%
- ◆ Dec 2006 100% to DCA (code approval)
- ◆ February 5, 2007 Board Presentation
- ◆ Open bids Spring 2007 (pending State approvals)



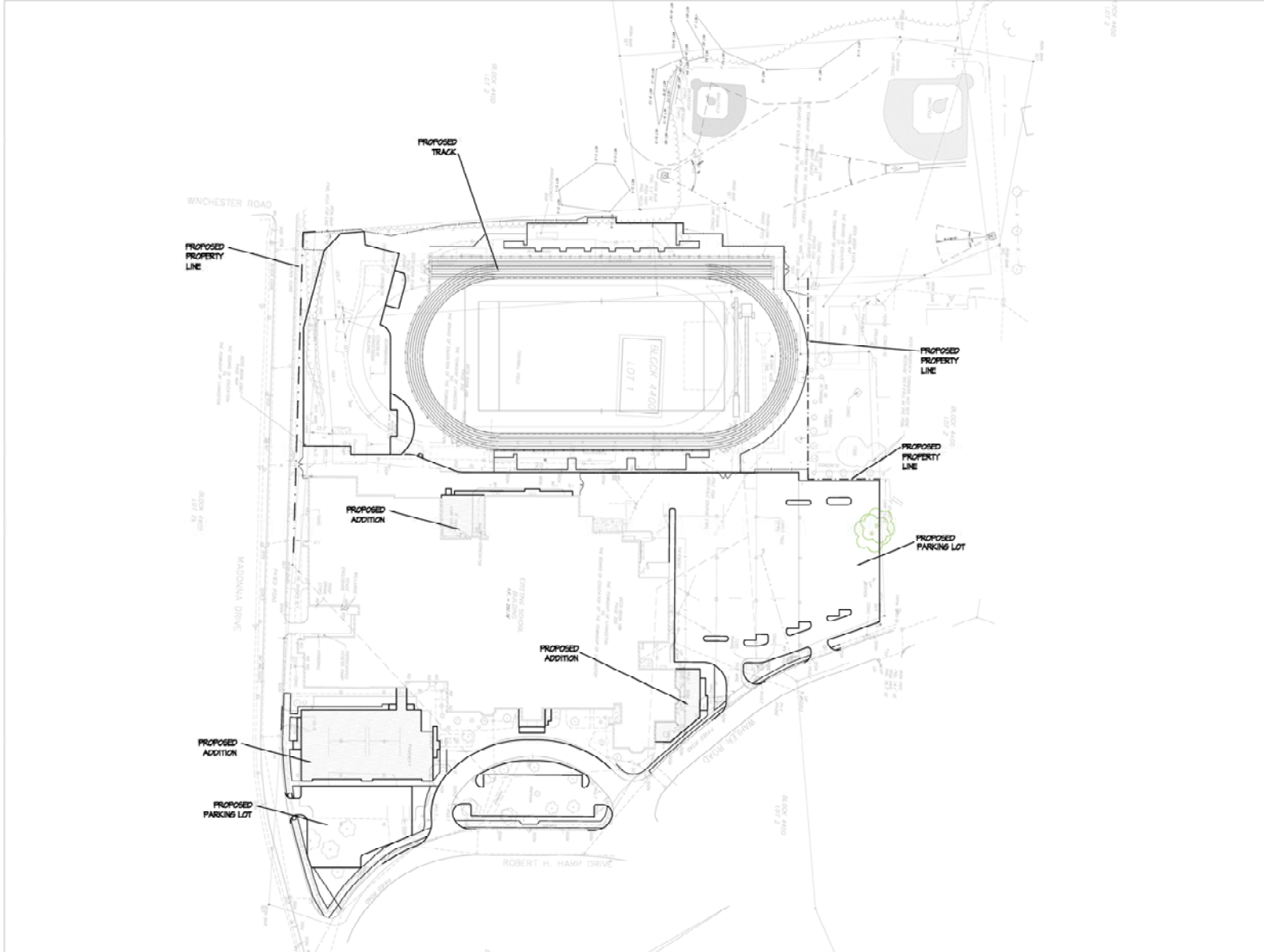
Process

- ◆ 35% Programming
- ◆ 60% Design Development
Submit to Department of Education
- ◆ 100% Complete Construction Documents
Submit to Department of
Community Affairs



60% Construction Documents

- ◆ **Site Civil**
- ◆ Overall Construction Plan
- ◆ Grading and Utilities
- ◆ Notes and Details
- ◆ Specifications Issued
- ◆ Issuance of Letter of Interpretation (LOI)



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- ARCHITECTURAL
- CIVIL
- STRUCTURAL
- CONSTRUCTION
- ENVIRONMENTAL
- MECHANICAL
- FORENSIC

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**ADDITIONS
AND
ALTERATIONS
TO THE
LIVINGSTON
HIGH
SCHOOL**

FOR THE
LIVINGSTON
BOARD OF EDUCATION
11 FOXCROFT DRIVE
LIVINGSTON
NEW JERSEY

ESSEX COUNTY
NEW JERSEY

LOT 1 BLOCK 4400

**OVERALL
SITE PLAN**
SCALE: 1"=60'

DATE	BY	NO.
11/15/2013	SP-1	10
PROJECT		
LIVSP03		
SHEET		
SP-1		



60% Construction Documents

- ◆ Architectural
- ◆ Submit to DOE for Final Educational Approval
- ◆ Structural
- ◆ Mechanical, Electrical, Plumbing



LEED

- ◆ Latest Checklist Compilation
 - 31 Points
- ◆ Sustainable Sites
- ◆ Water Efficiency
- ◆ Energy and Atmosphere
- ◆ Material and Resources
- ◆ Indoor Air Quality

Conceptual Rendering



Conceptual Rendering





An Introduction to Commissioning

COMMISSIONING for High Schools

Livingston School District



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What is Commissioning?



The Commissioning Process

is

Quality Assurance

in

Building Construction

Why Commissioning Now?

- ◆ High Performance Buildings
 - Sealed, Energy Efficient (by Code), Secure
- ◆ Cutting Edge Equipment
 - Microprocessor Controlled
- ◆ Intermixing Systems





Changing Roles in Construction



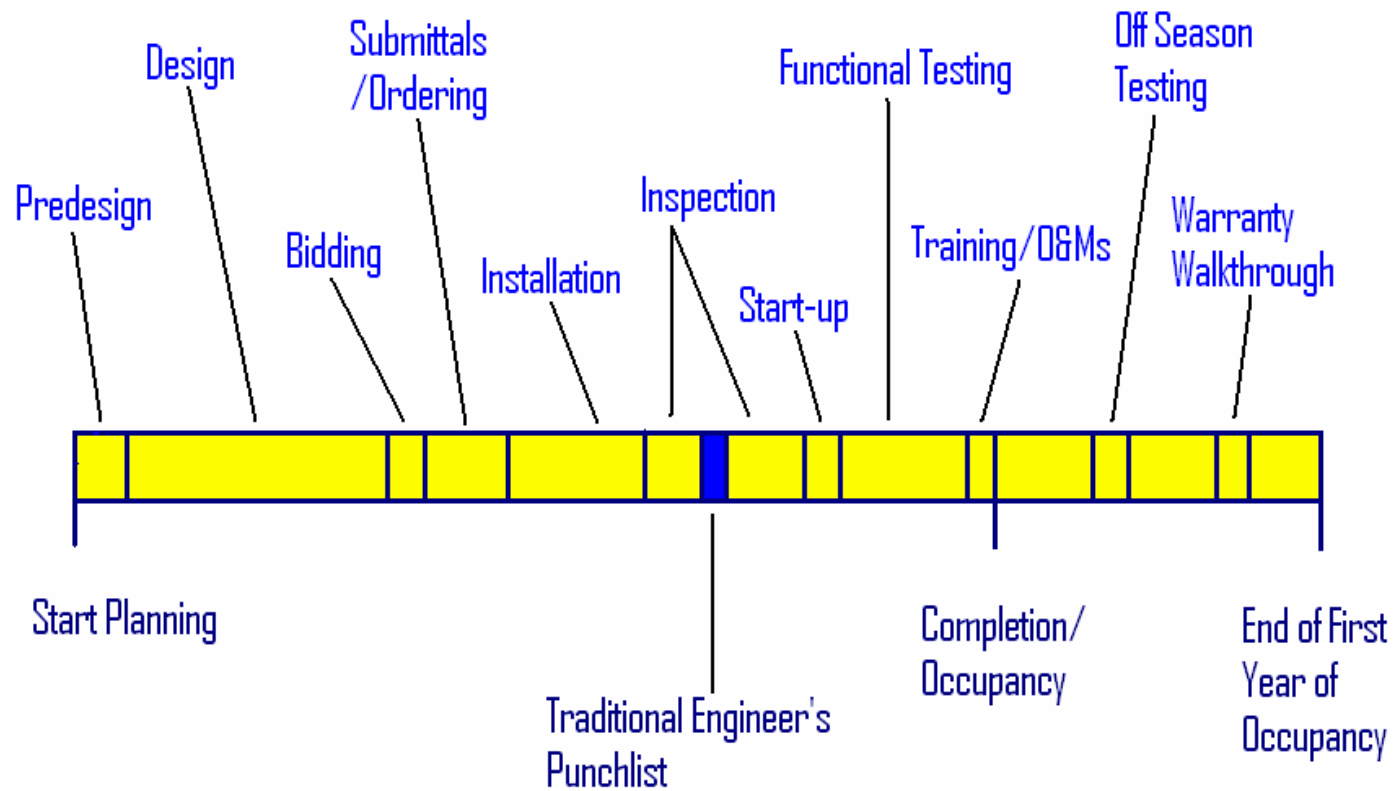
- ◆ Buildings Built 95% Complete
- ◆ O&M Staff Fixes the Rest
- ◆ Engineers Rely on Sales Reps
- ◆ Sales Reps Rely on the Factory
- ◆ Factories are “Beta-Testing Equipment

Managing the Cx Project 3 Stages

- ◆ Design
- ◆ Construction
- ◆ Occupancy



Cx is Integrated





Credit 3—Enhanced Commissioning

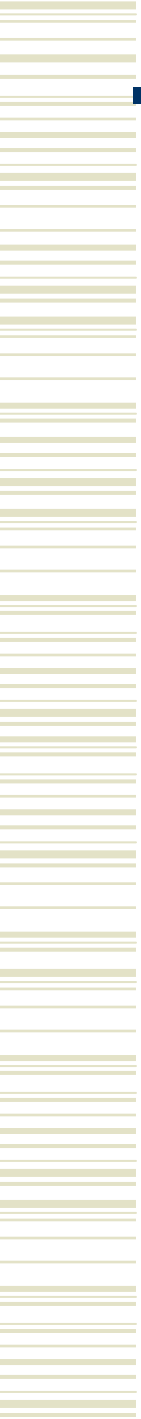
1. Designate an Independent CxA
2. Review Construction Documents
3. Review Contractor Submittals
4. Develop a Systems Manual
5. Verify Training of O&M Personnel
6. Post Occupancy Review and Plan



Oversight Committee



- ◆ Comments from Don Newell,
spokesperson of Oversight Committee



Q&A