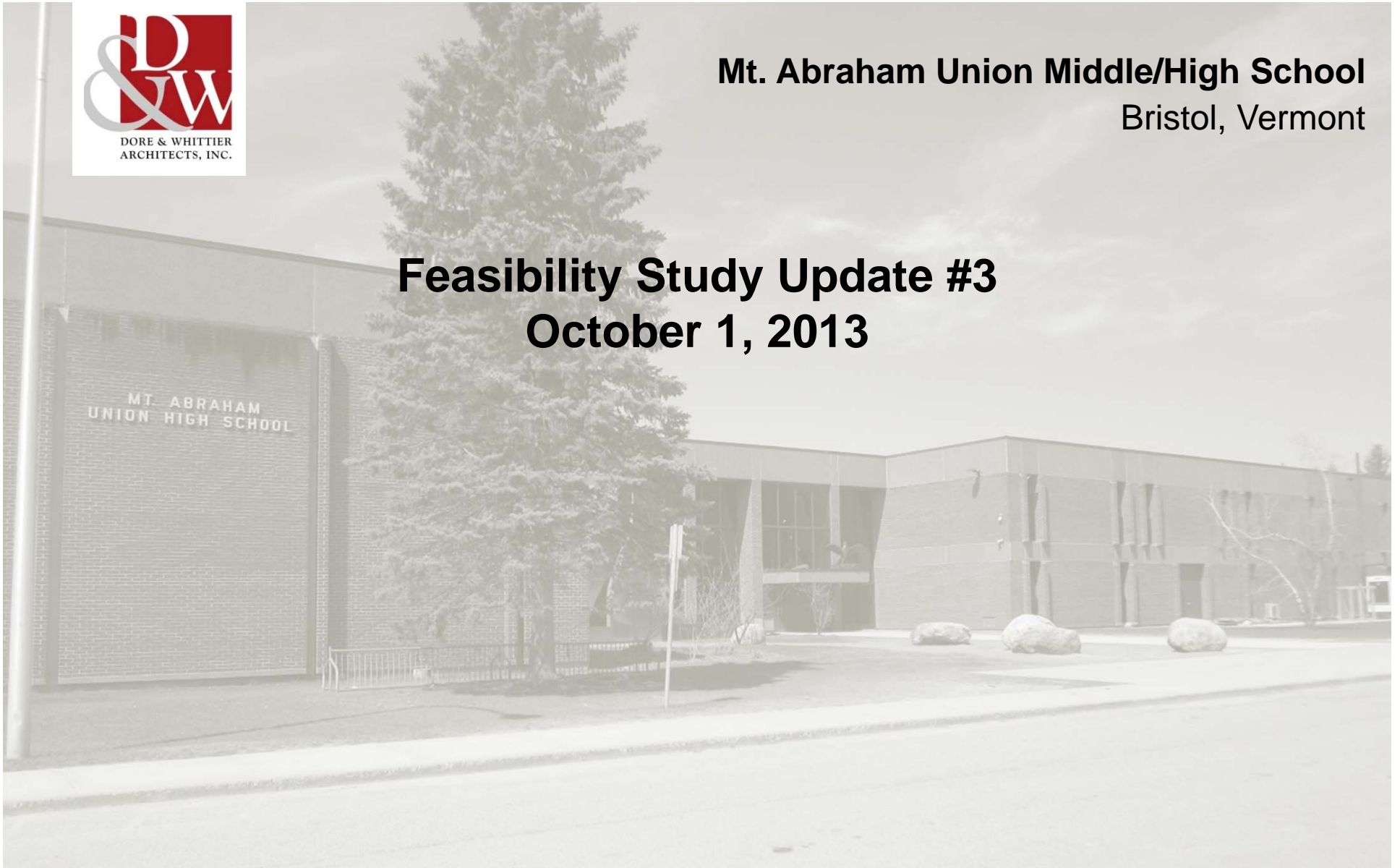




Mt. Abraham Union Middle/High School
Bristol, Vermont

Feasibility Study Update #3
October 1, 2013





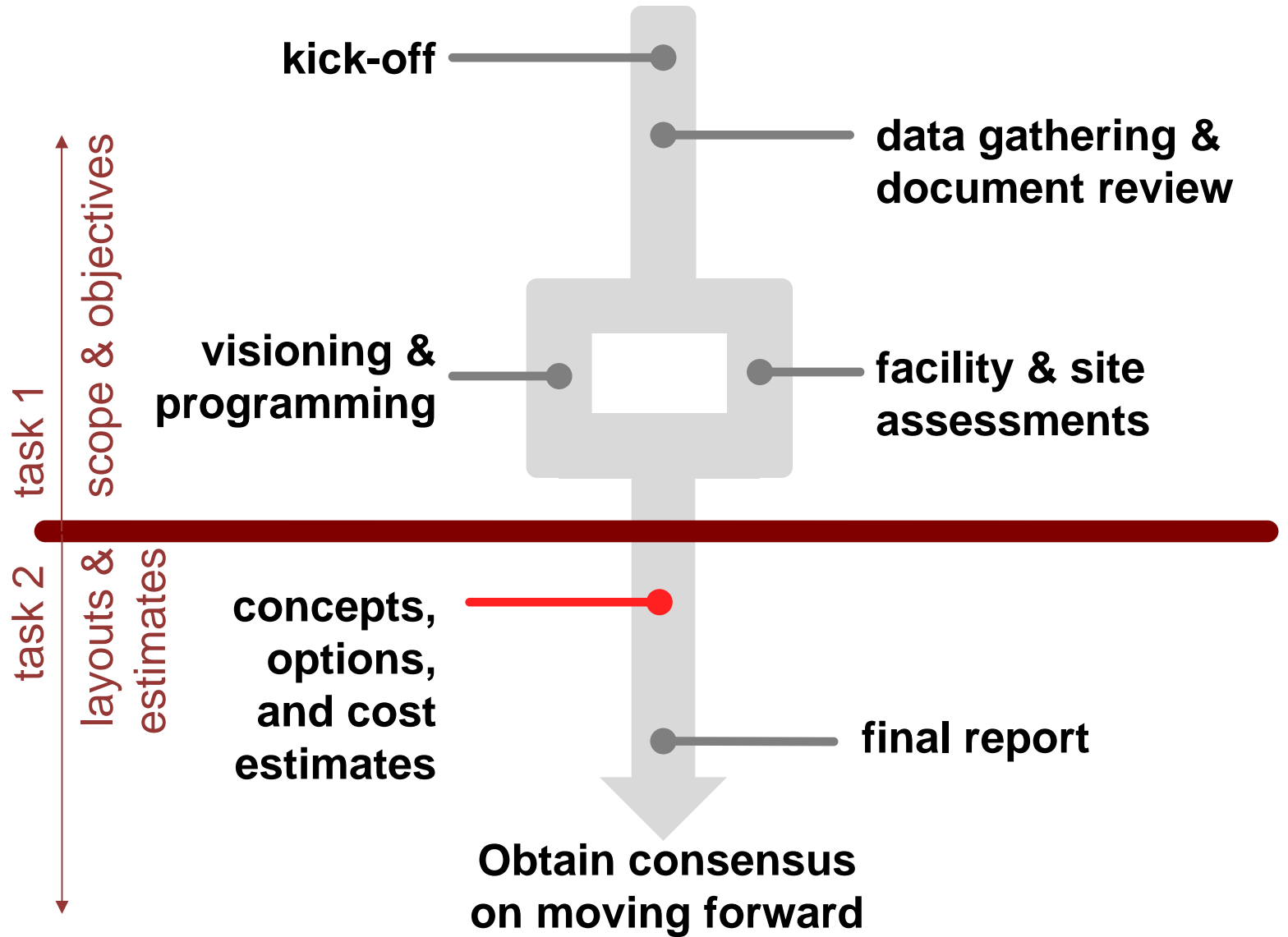
agenda

- **Process and Approach Overview**
- **Educational Programming Overview**
- **Summary of Options**
- **Cost Estimate Review**
- **Next Steps**
- **Comments and Questions**

process and approach



process and approach





educational programming





Established Project Objectives:

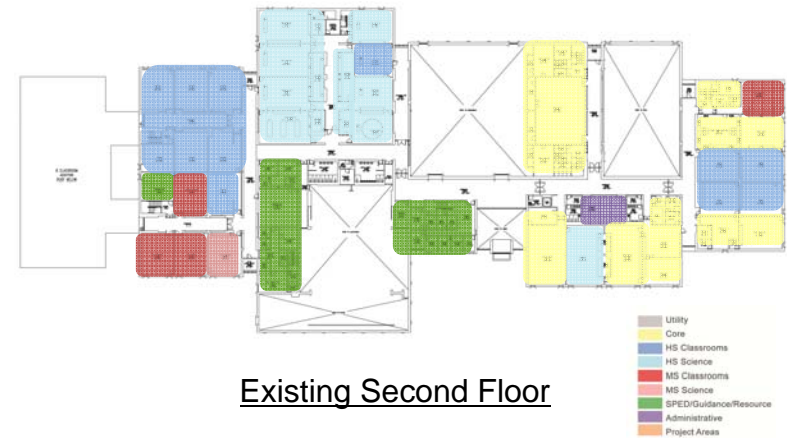
Educational Goals:

- Meet needs of MS and HS educational program
- 21st Century Educational spaces
- Provide appropriate adjacencies
- Natural light to all classrooms; eliminate tandem classrooms
- Consolidate campus

Site and Building Goals:

- Code, Life Safety and ADA improvements
- Update building infrastructure (M/E/P/FP) and improve energy efficiency (occ. sensors, low flow fixtures)
- Improve quality of spaces with natural light, updated finishes, adequate ventilation and address deferred maintenance

Adjacency and Schedule Analysis:



Current Room Utilization ranges between 72% at HS and 41% at MS.

For greater efficiency (staffing, energy use, etc.), 85% room utilization rate is recommended.



Space Summary:

	Existing Classroom Counts:	Proposed Classroom Counts:
General Classrooms – HS	25 (avg. @ 690 SF each)	18 (@ 750 SF each)
General Classrooms – MS	10 (avg. @ 764 SF each)	9 (@ 750 SF each)
Science Labs - HS	8 (avg. @ 792 SF each)	5 (@ 1,200 SF each)
Science Labs – MS	3 (avg. @ 753 SF each)	2 (@ 1,000 SF each)
Technical/Vocational	8 (Includes Wood shop, Metal Shop, 2 Comp. labs, Tech Ed rooms) Total: 10,871 SF	5 (Includes wood shop, metal shop, Tech Ed., 2-1500 SF project labs) Total: 7,800 SF
Art	4 Total: 2,964 SF	2 Total: 2,700 SF

options summary



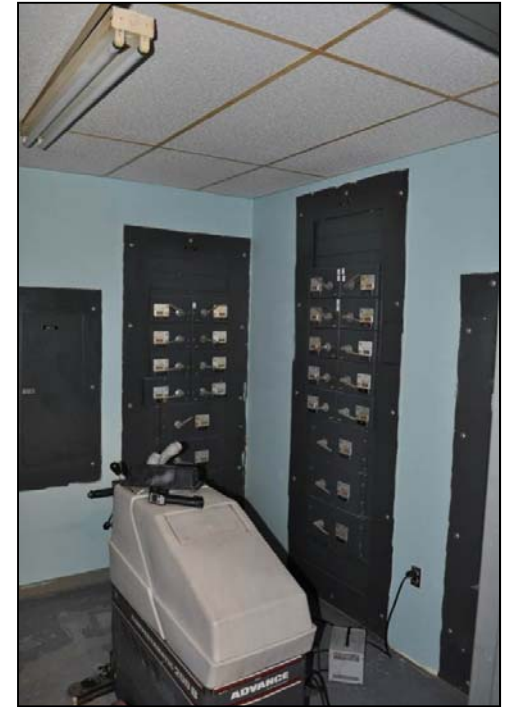
Deficiencies Summary:

1. Site/Civil: traffic patterns; surface erosion at the escarpment; confirm water supply for a sprinkler system
2. Thermal Envelop: efflorescence at brick; seals at windows; wear at exterior doors
3. Overall Aesthetics (tired finishes); Vinyl-faced wall board is peeling; Gym floor is worn and has dead spots
4. Security: line of site between main office and entrance; open campus
5. ADA Accessibility improvements needed throughout
6. Code/Life Safety: fire detection devices required; addressable fire alarm system recommended; emergency lighting with battery back-up at exterior doors



Deficiencies Summary:

7. Energy / efficiency improvements; improve ventilation; convert to DDC
8. Test, balance, service mechanical and heating systems
9. Kitchen – replace exhaust system; add Ansul system & shut-off valve
10. Upgrading Auditorium sound/ stage lighting
11. Provide direct/indirect light fixtures.
12. Integrate occ./CO2 sensors to all spaces.
13. Interconnect the phone and data systems.
14. Switch to low flow plumbing fixtures





“Do Nothing” Option :

Site and Building Goals:

- Code, Life Safety and ADA improvements
- Update building infrastructure (M/E/P/FP) and improve energy efficiency (occ. sensors, low flow fixtures)
- Provide adequate ventilation and address deferred maintenance

YES

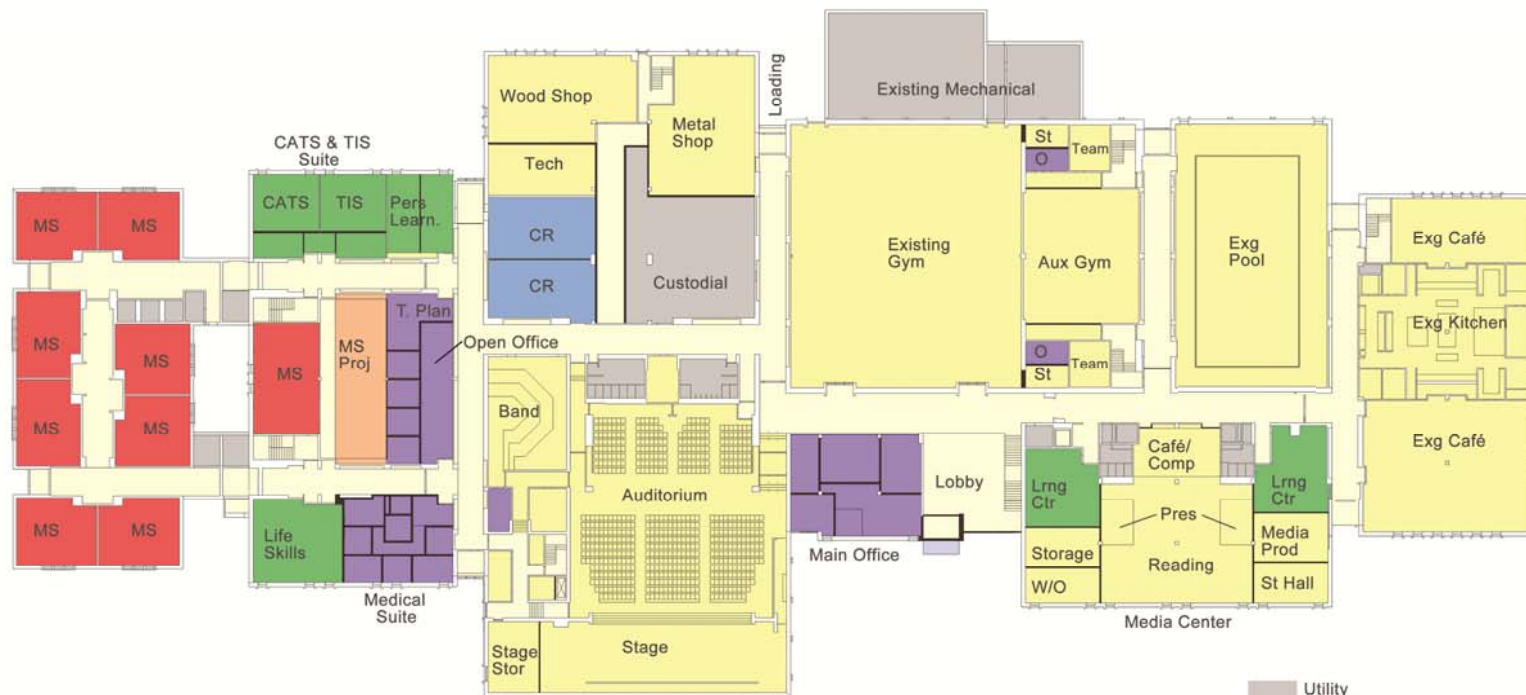
Site and Building Goals:

- Improve quality of spaces with natural light, updated finishes

Educational Goals:

- Meet needs of MS and HS educational program
- 21st Century Educational spaces
- Provide appropriate adjacencies
- Natural light to all classrooms; eliminate tandem classrooms
- Consolidate campus

NO



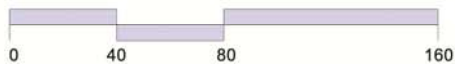
- Utility
- Core
- HS Classrooms
- HS Science
- MS Classrooms
- MS Science
- SPED/Guidance/Resource
- Administrative
- Project Areas

Concept 1
MT ABRAHAM UNION HIGH SCHOOL

First Floor

September 5, 2013





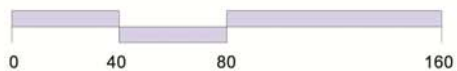
Concept 1
MT ABRAHAM UNION HIGH SCHOOL

Second Floor

- Utility
- Core
- HS Classrooms
- HS Science
- MS Classrooms
- MS Science
- SPED/Guidance/Resource
- Administrative
- Project Areas

September 5, 2013





Concept 2
MT ABRAHAM UNION HIGH SCHOOL

First Floor

- Utility
- Core
- HS Classrooms
- HS Science
- MS Classrooms
- MS Science
- SPED/Guidance/Resource
- Administrative
- Project Areas

September 11, 2013





project objectives

Options Comparison Matrix:

	"Do Nothing"	Option 1	Option 2
Objective: Address Site and Building Deficiencies	PARTIAL	YES	YES
Objective: Address Educational Deficiencies	NO	YES	PARTIAL



Options Cost Summary:

	"Do Nothing"	Option 1	Option 2
Construction Cost	\$ 7.1 M	\$ 17.8 M	\$ 16.2 M
Soft Costs (25%)	\$ 2.4 M	\$ 5.1 M	\$ 4.7 M
Sprinkler System	\$ 1 M	\$ 1 M	\$ 1 M
Phasing Allowance	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000
Haz Mat Allowance	\$ 442,500	\$ 442,500	\$ 442,500
Total Project Cost Range	\$11.6 M - \$12.8 M	\$24.3 M – \$26.9 M	\$22.4 M - \$24.7 M

Notes:

1. Estimate does not include work on embankment, only subsurface soil exploration and analysis to determine embankment scope.
2. Soft Costs include FF&E, Technology, Owner's Contingency, Insurance, A/E Fees, Legal fees, Clerk fees.

next steps





Next Steps:

October 2013

- **ESCO Option**
- **Discussion**

next steps





Questions

Questions, Comments, Feedback...