

Hardy/Upham Elementary Feasibility Study



SBC Meeting

January 9, 2020



Typology Evolution: Eras tend to follow demographic bubbles



School house



Late 19th Century

- First Hunnewell



Turn of the Century

- Original Hunnewell
- 1938 High School



Post-WWII

- Industrial School era
- Hunnewell 1954 addition / Bates / Upham



60's & 70's Brutalist Energy Crisis -

- Lack of daylight
- Open Plan
- "California" plan - open campus
- Rigidity
- Lack of Daylight
- Inefficient



Late 20th - Early 21st Century

- WHS (various ES additions)
- Technology
- Modern Systems



Current Planning

- Inclusion
- Energy Efficiency
- Flexibility
- Multidisciplinary
- Project Based (hands on)
- Student directed

Selection Criteria

Develop list of potential differentiators

- | | | | |
|-----------|--|-----------|---|
| 01 | Attendance Zones | 14 | On-Site Parking |
| 02 | Building Size (GSF) | 15 | Permitting |
| 03 | Community Fields | 16 | Student Proximity (Biking) |
| 04 | Construction Phase Impacts (Neighbors) | 17 | Student Proximity (Bussing) |
| 05 | Construction Phase Impacts (Students) | 18 | Student Proximity (Walking) |
| 06 | Cost for Building Construction | 19 | Sustainability (EUI) |
| 07 | Cost for Site Work | 20 | Sustainability (Solar PV Capacity Roof) |
| 08 | Demolition | 21 | Sustainability (Solar PV Capacity Site) |
| 09 | Education Plan (Strengths) | 22 | Traffic (at School Site) |
| 10 | Education Plan (Weaknesses) | 23 | Traffic (in Neighborhood/Town) |
| 11 | Existing Building Considerations | 24 | Walkability |
| 12 | Impact to Abutters (after built) | | |
| 13 | Impact to Natural Habitats (flora and fauna) | | |

Selection Criteria

Consolidate into major categories

Neighborhood School
Project Cost
Education Plan
Energy Performance
Traffic

01	Attendance Zones	14	On-Site Parking
02	Building Size (GSF)	15	Permitting
03	Community Fields	16	Student Proximity (Biking)
04	Construction Phase Impacts (Neighbors)	17	Student Proximity (Bussing)
05	Construction Phase Impacts (Students)	18	Student Proximity (Walking)
06	Cost for Building Construction	19	Sustainability (EUI)
07	Cost for Site Work	20	Sustainability (Solar PV Capacity Roof)
08	Demolition	21	Sustainability (Solar PV Capacity Site)
09	Education Plan (Strengths)	22	Traffic (at School Site)
10	Education Plan (Weaknesses)	23	Traffic (in Neighborhood/Town)
11	Existing Building Considerations	24	Walkability
12	Impact to Abutters (after built)		
13	Impact to Natural Habitats (flora and fauna)		

Selection Criteria

Record updated list of potential differentiators

- 01 Neighborhood School
- 02 Building Size (GSF)
- 03 Community Fields
- 04 Construction Phase Impacts (Neighbors)
- 05 Construction Phase Impacts (Students)
- 06 Project Cost
- 07 Demolition
- 08 Education Plan
- 09 Existing Building Considerations
- 10 Impact to Abutters (after built)
- 11 Impact to Natural Habitats (flora and fauna)
- 12 On-Site Parking
- 13 Permitting
- 14 Energy Performance
- 15 Traffic

Selection Process

UPHAM SITE

HARDY SITE

PDP

ADD RENO (1)
240/365

NEW (2)
240/365

ADD RENO (1)
365

NEW (2)
365

Preliminary
Site, Building
and Program

PSR

NEW (1)
365

ADD RENO (1)
365

NEW (4)
365

Final Site and
Building Type

SD

Hardy: New or AR
OR
Upham: New

Building
Design

Selection Process – Alternative 1

UPHAM SITE

HARDY SITE

PDP

ADD RENO (1)
240/365

NEW (2)
240/365

ADD RENO (1)
365

NEW (2)
365

Preliminary Site,
Building and
Program

1

Mar 5

NEW (1)

ADD RENO (1)

NEW (4)

Building Type

PSR

2

Apr 2

NEW (1)

Hardy: New or AR

Final Site

SD

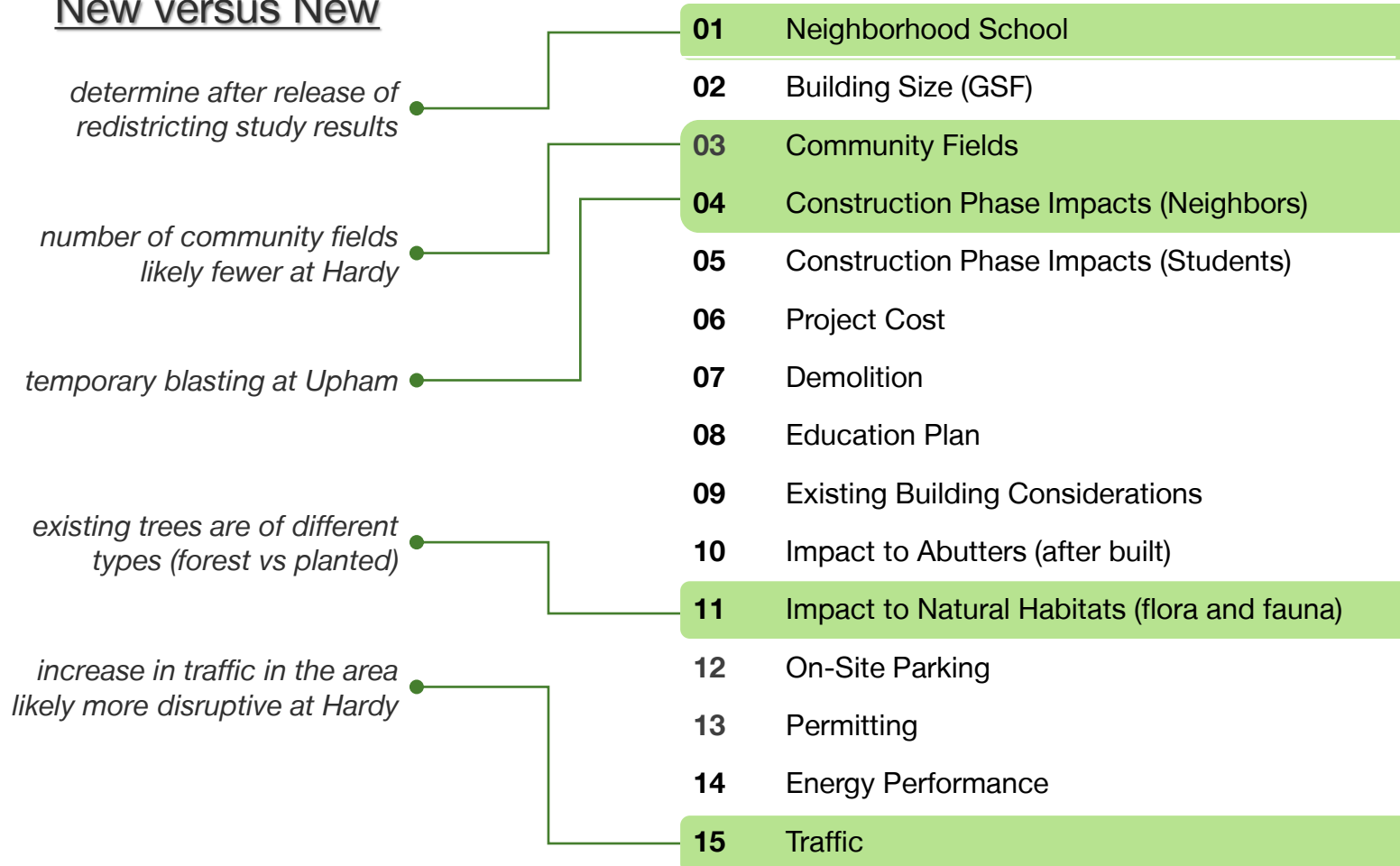
Preferred
Alternative

Building
Design

Selection Criteria

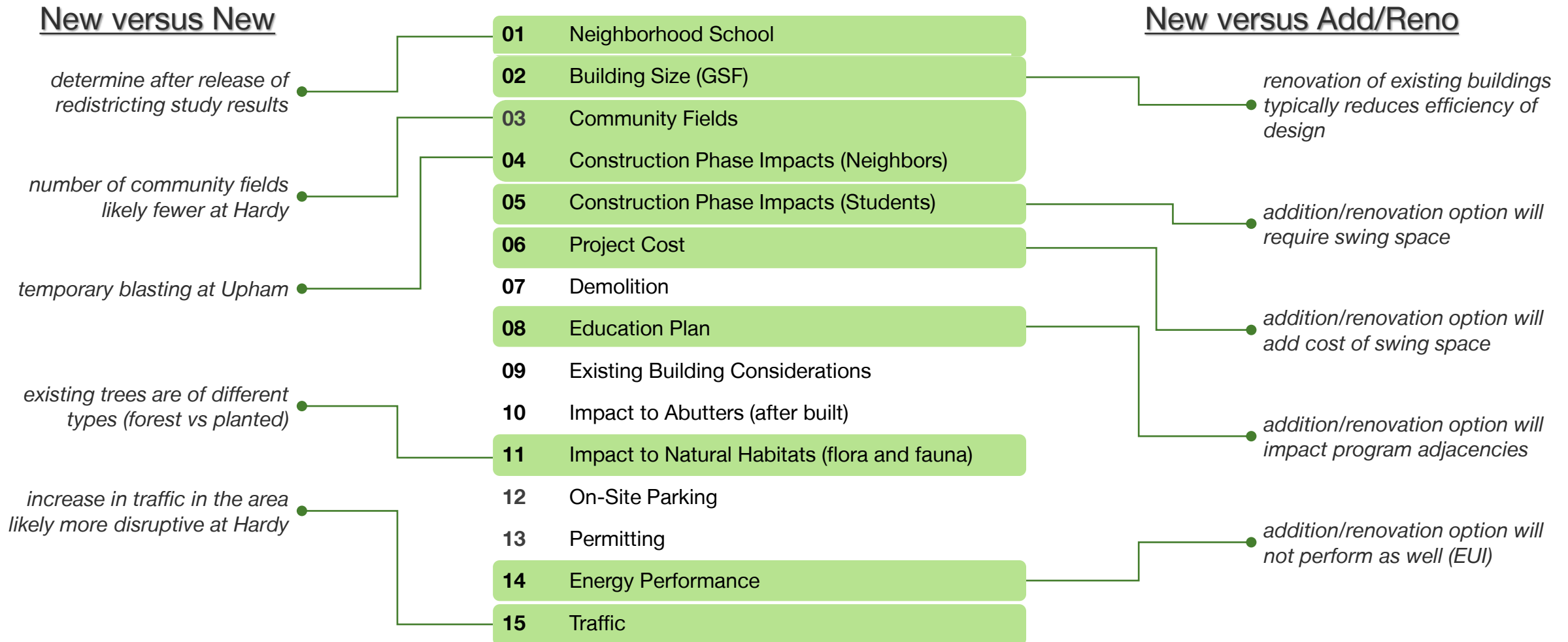
Determine if any are neutral and can be eliminated

New versus New



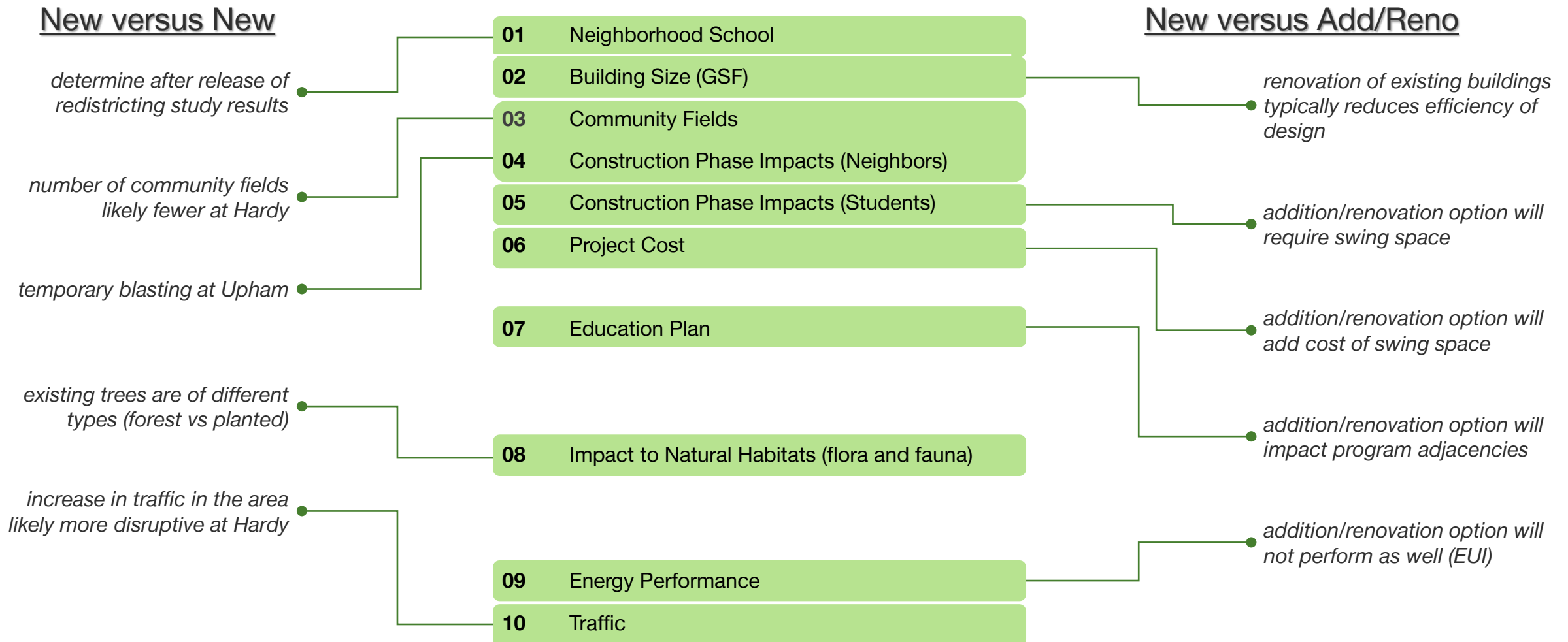
Selection Criteria

Determine if any are neutral and can be eliminated



Selection Criteria

Recommended final evaluation criteria



Hardy/Upham Elementary Feasibility Study



Discussion



Agenda

Proposed Agenda for
Hardy/Upham Project
Community Forum
January 15, 2020

Introduction

Brief Review of Educational Plan

MSBA Standards and Building Blocks

Decisions to date (Shortlist 365 Students Options & Preliminary Design Program)

Discussion on Selection Criteria

Overview Shortlist Options

Upcoming Schedule