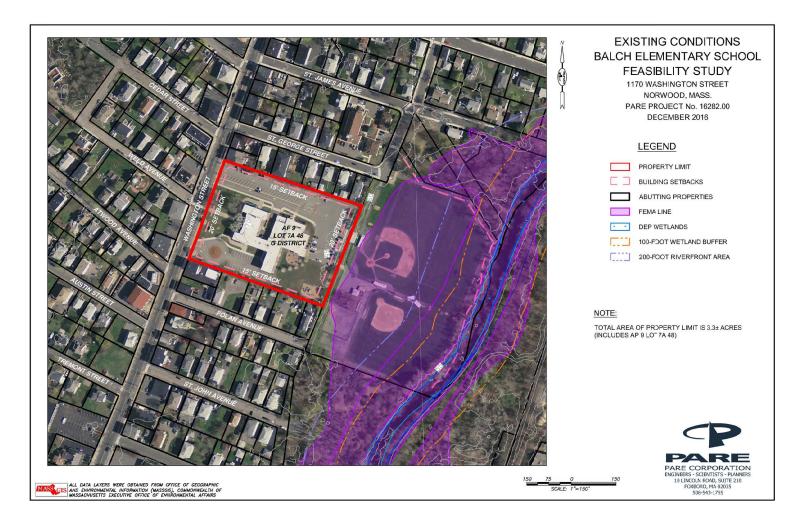
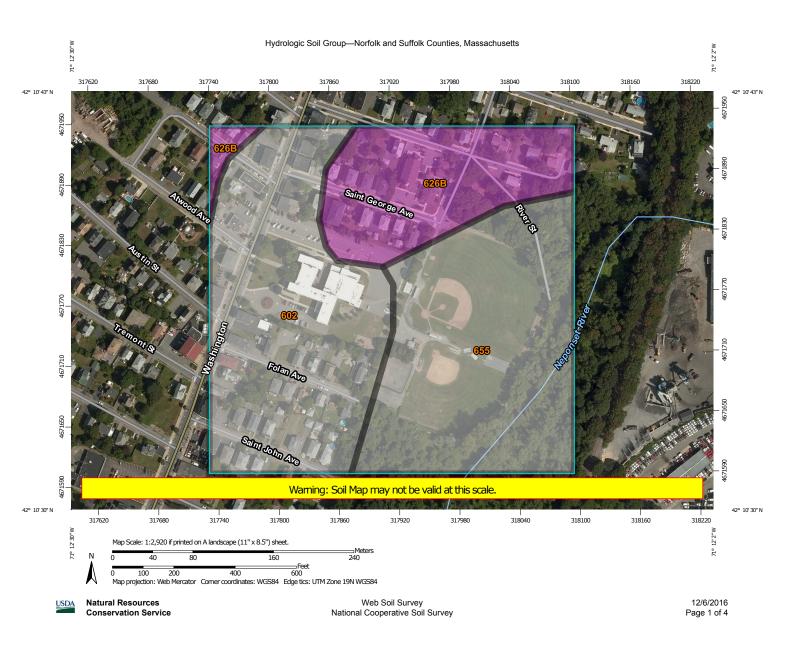
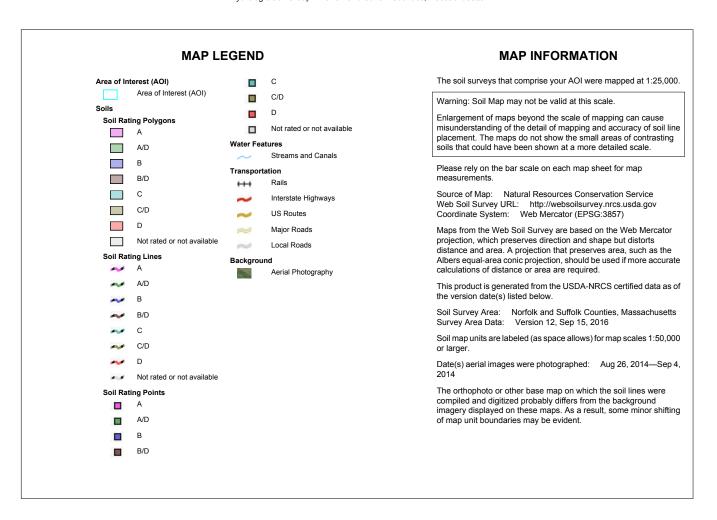




Supplemental Site Analysis: Balch

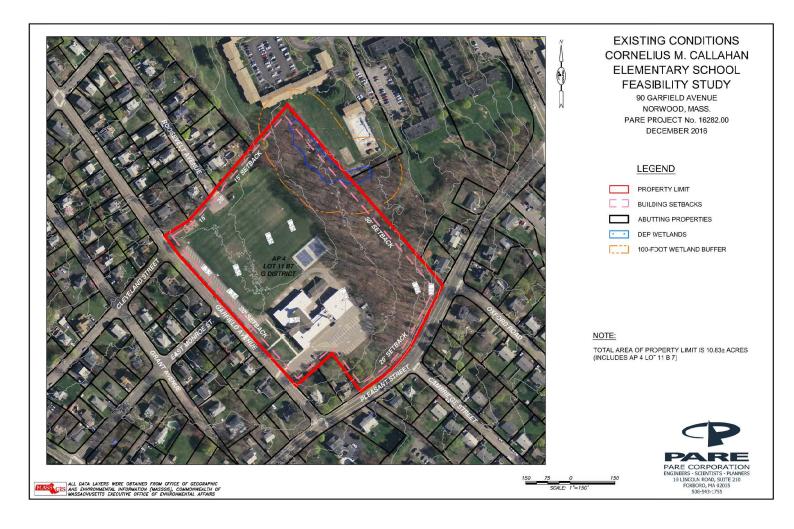


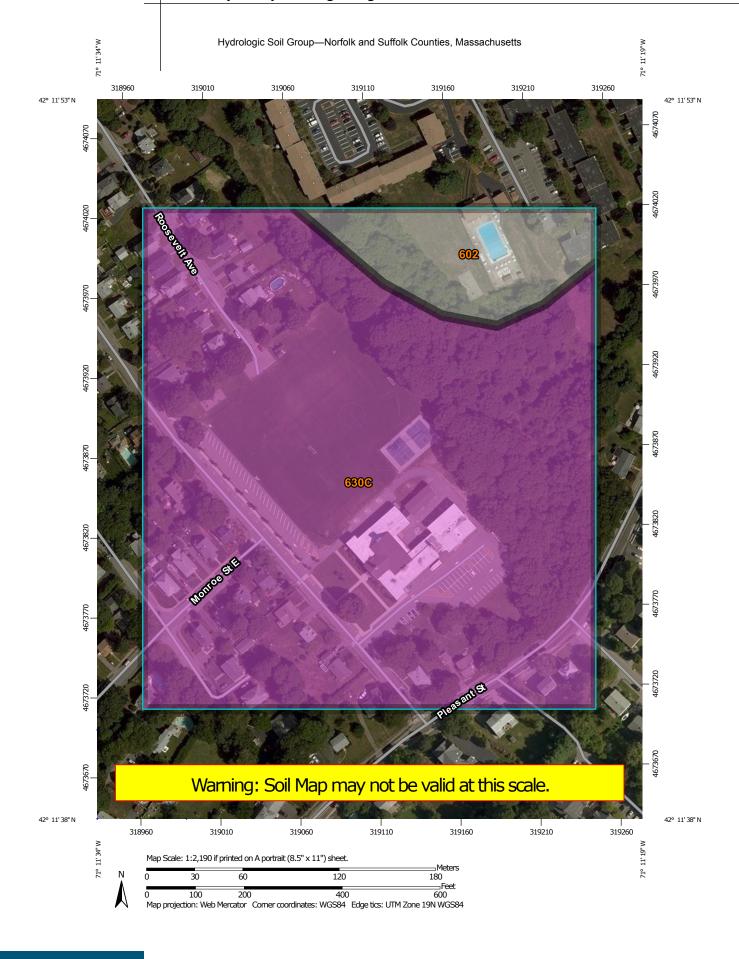


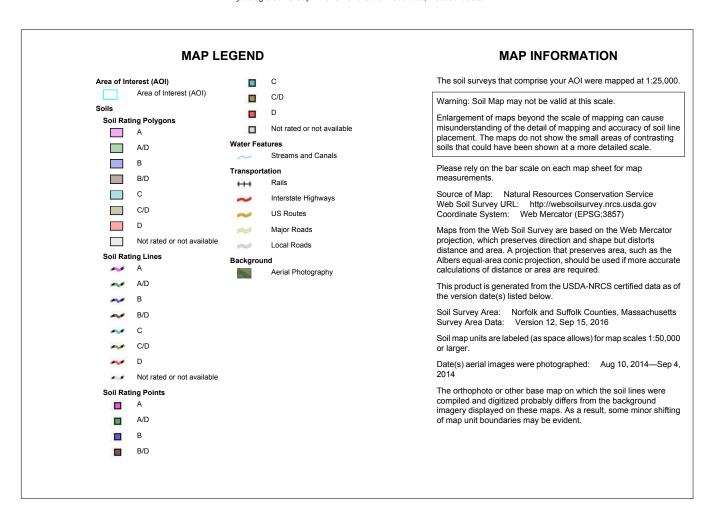


Hydrologic Soil Group— Summary by Map Unit — Norfolk and Suffolk Counties, Massachusetts (MA616)					
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
602	Urban land, 0 to 15 percent slopes		12.3	39.6%	
626B	Merrimac-Urban land complex, 0 to 8 percent slopes	A	6.8	21.8%	
655	Udorthents, wet substratum		12.0	38.6%	
Totals for Area of Interest			31.1	100.0%	

Supplemental Site Analysis: Callahan

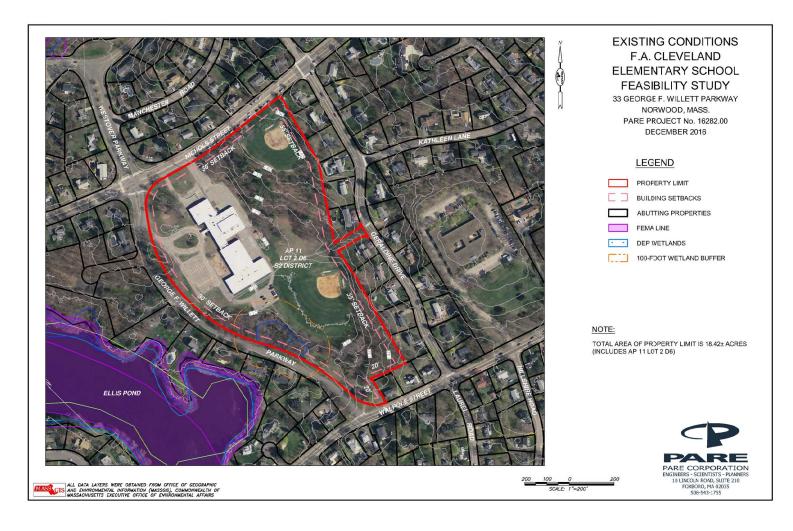


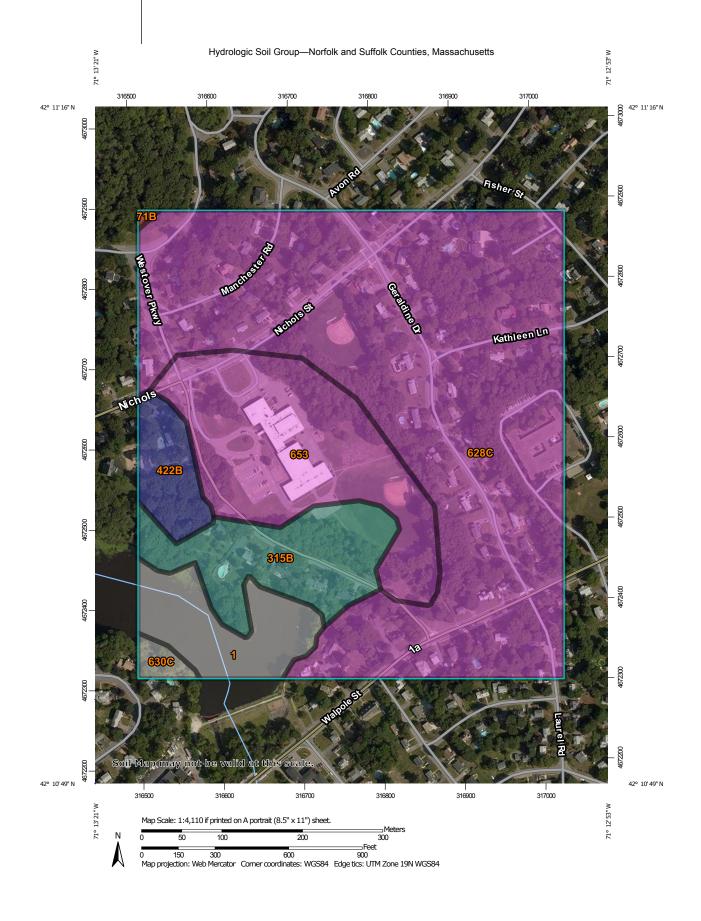




Hydrologic Soil Group— Summary by Map Unit — Norfolk and Suffolk Counties, Massachusetts (MA616)					
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
602	Urban land, 0 to 15 percent slopes		2.3	10.5%	
630C	Charlton-Hollis-Urban land complex, 3 to 15 percent slopes	A	19.7	89.5%	
Totals for Area of Interest		22.0	100.0%		

Supplemental Site Analysis: Cleveland

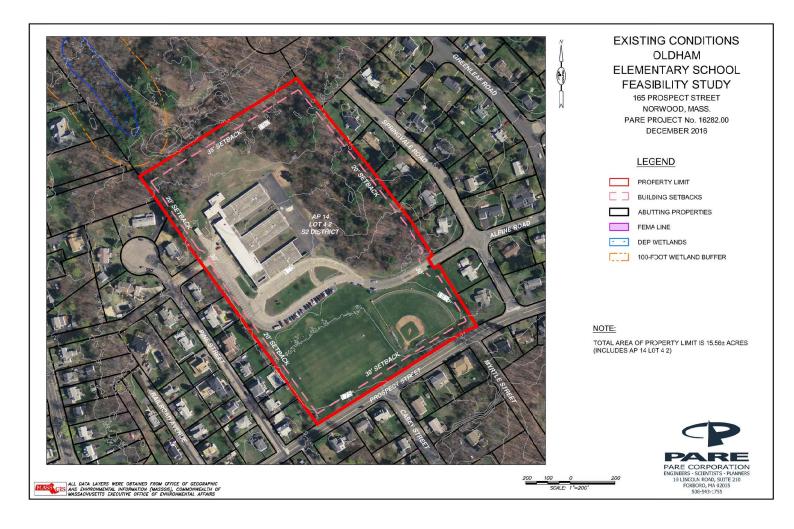


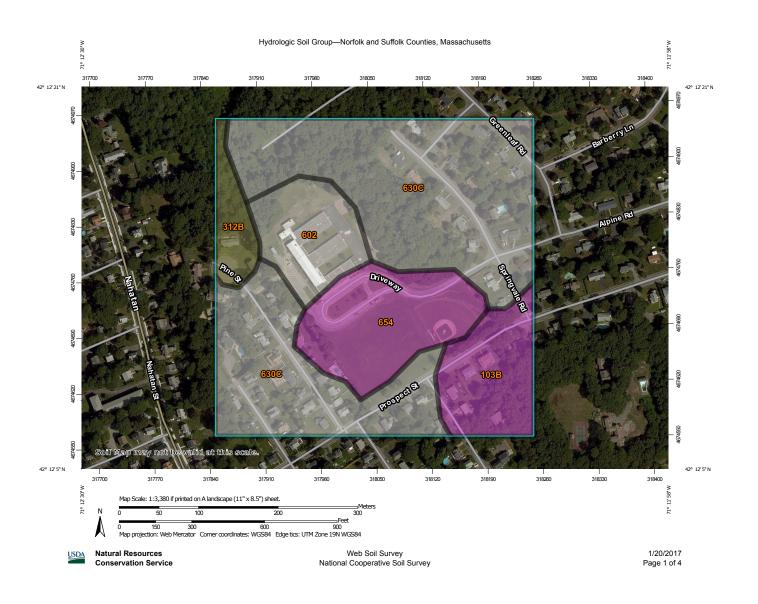


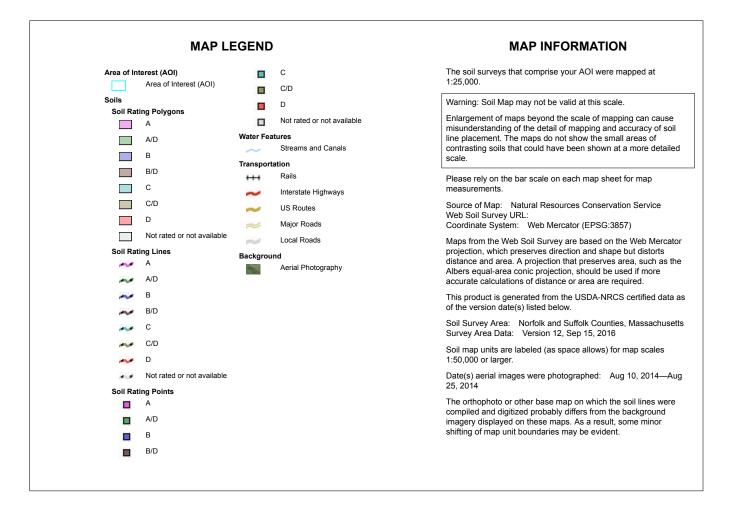
MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С Area of Interest (AOI) C/D Soils Warning: Soil Map may not be valid at this scale. D Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil Water Features line placement. The maps do not show the small areas of A/D contrasting soils that could have been shown at a more detailed Streams and Canals В Transportation B/D +++ Please rely on the bar scale on each map sheet for map С measurements. Interstate Highways C/D Source of Map: Natural Resources Conservation Service US Routes Web Soil Survey URL: D Major Roads Coordinate System: Web Mercator (EPSG:3857) Not rated or not available Local Roads Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Soil Rating Lines Background distance and area. A projection that preserves area, such as the Α Aerial Photography Albers equal-area conic projection, should be used if more A/D accurate calculations of distance or area are required. В This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. B/D Soil Survey Area: Norfolk and Suffolk Counties, Massachusetts С Survey Area Data: Version 12, Sep 15, 2016 C/D Soil map units are labeled (as space allows) for map scales D 1:50,000 or larger. Date(s) aerial images were photographed: Aug 26, 2014—Sep Not rated or not available 4, 2014 Soil Rating Points The orthophoto or other base map on which the soil lines were Α compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. В B/D

Hydrologic Soil Group— Summary by Map Unit — Norfolk and Suffolk Counties, Massachusetts (MA616)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
1	Water		5.1	6.6%
71B	Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony	D	0.1	0.1%
315B	Scituate fine sandy loam, 3 to 8 percent slopes	С	7.4	9.7%
422B	Canton fine sandy loam, 0 to 8 percent slopes, extremely stony	В	2.9	3.8%
628C	Canton-Urban land complex, 3 to 15 percent slopes	A	46.9	61.2%
630C	Charlton-Hollis-Urban land complex, 3 to 15 percent slopes		0.7	0.9%
653	Udorthents, sandy	A	13.6	17.7%
Totals for Area of Interest			76.7	100.0%

Supplemental Site Analysis: Oldham

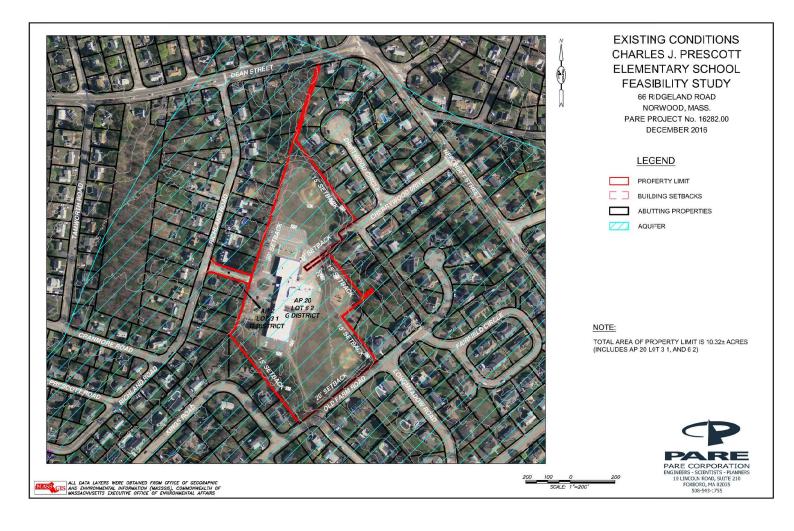


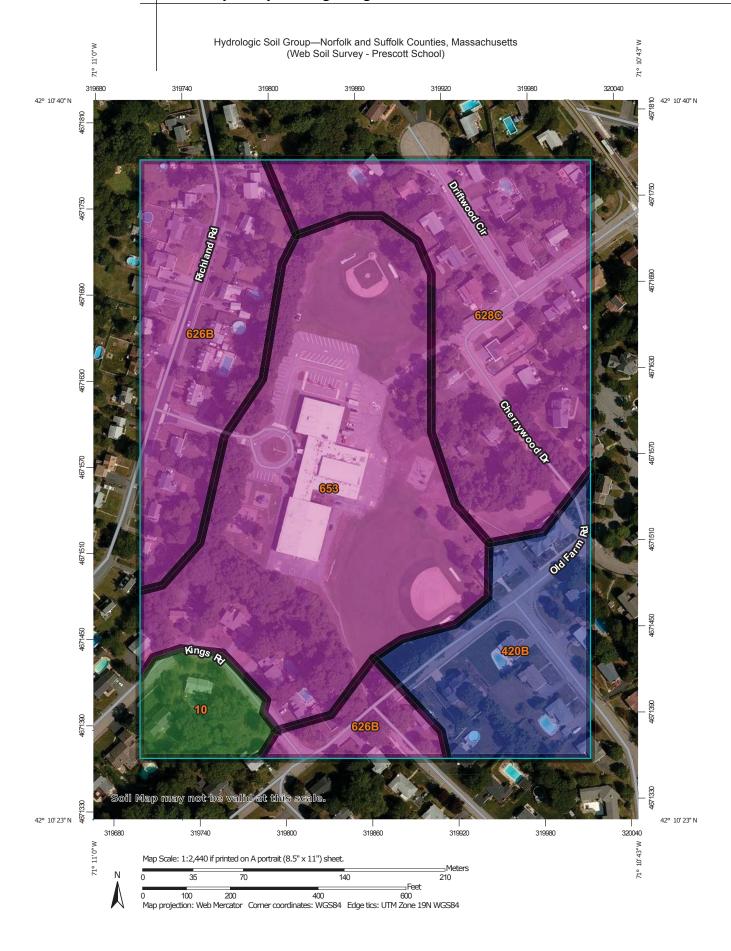




Hydrologic Soil Group— Summary by Map Unit — Norfolk and Suffolk Counties, Massachusetts (MA616)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
103B	Charlton-Hollis-Rock outcrop complex, 3 to 8 percent slopes	A	4.4	11.0%
312B	Woodbridge fine sandy loam, 0 to 8 percent slopes, extremely stony	C/D	1.8	4.6%
602	Urban land, 0 to 15 percent slopes		4.0	10.0%
630C	Charlton-Hollis-Urban land complex, 3 to 15 percent slopes		23.2	58.5%
654	Udorthents, loamy	А	6.3	15.9%
Totals for Area of Interest			39.8	100.0%

Supplemental Site Analysis: Prescott



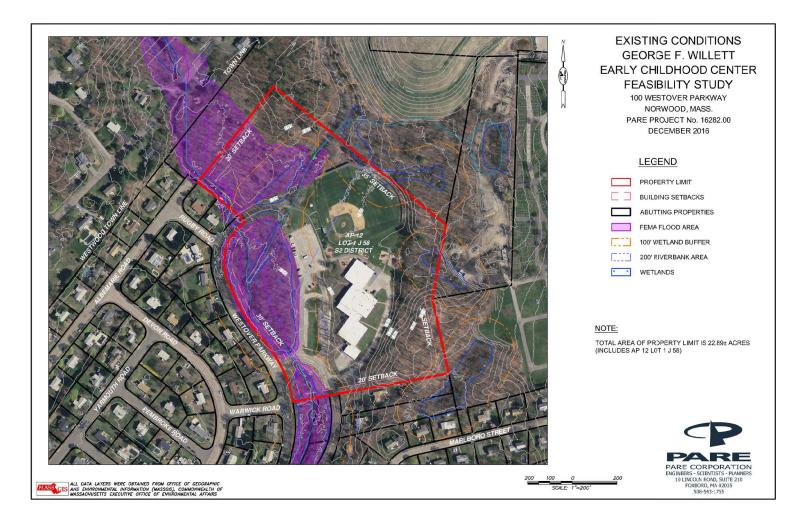


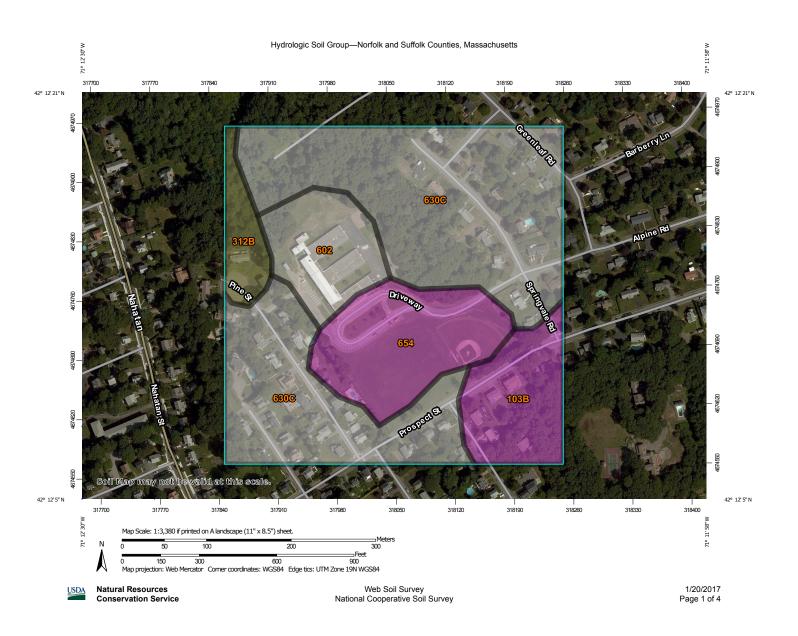
Hydrologic Soil Group—Norfolk and Suffolk Counties, Massachusetts (Web Soil Survey - Prescott School)

MAP LEGEND MAP INFORMATION Area of Interest (AOI) The soil surveys that comprise your AOI were mapped at 1:25,000. Area of Interest (AOI) C/D Soils Warning: Soil Map may not be valid at this scale. Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil Water Features line placement. The maps do not show the small areas of Streams and Canals contrasting soils that could have been shown at a more detailed В scale. Transportation B/D Rails Please rely on the bar scale on each map sheet for map С measurements Interstate Highways C/D US Routes Source of Map: Natural Resources Conservation Service Web Soil Survey URL: D Major Roads Coordinate System: Web Mercator (EPSG:3857) Not rated or not available Local Roads Maps from the Web Soil Survey are based on the Web Mercator Soil Rating Lines projection, which preserves direction and shape but distorts Background distance and area. A projection that preserves area, such as the Aerial Photography No. Albers equal-area conic projection, should be used if more A/D accurate calculations of distance or area are required. В This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. B/D Soil Survey Area: Norfolk and Suffolk Counties, Massachusetts С Survey Area Data: Version 12, Sep 15, 2016 Soil map units are labeled (as space allows) for map scales D 1:50,000 or larger. Not rated or not available Date(s) aerial images were photographed: Aug 26, 2014—Sep Soil Rating Points The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background A/D imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. В B/D

Hydrologic Soil Group— Summary by Map Unit — Norfolk and Suffolk Counties, Massachusetts (MA616)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
10	Scarboro and Birdsall soils, 0 to 3 percent slopes	A/D	1.5	4.6%
420B	Canton fine sandy loam, 3 to 8 percent slopes	В	4.2	12.8%
626B	Merrimac-Urban land complex, 0 to 8 percent slopes	A	6.6	20.5%
628C	Canton-Urban land complex, 3 to 15 percent slopes	A	8.0	24.7%
653	Udorthents, sandy	А	12.1	37.5%
Totals for Area of Interest			32.4	100.0%

Supplemental Site Analysis: Willett

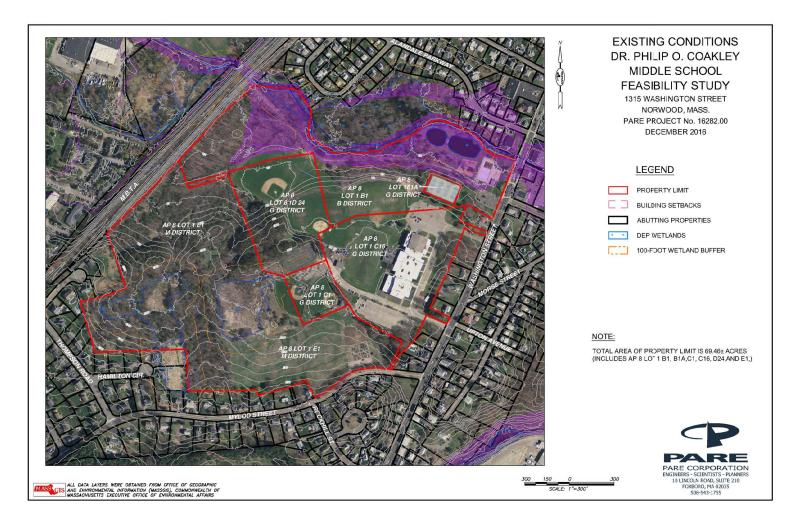




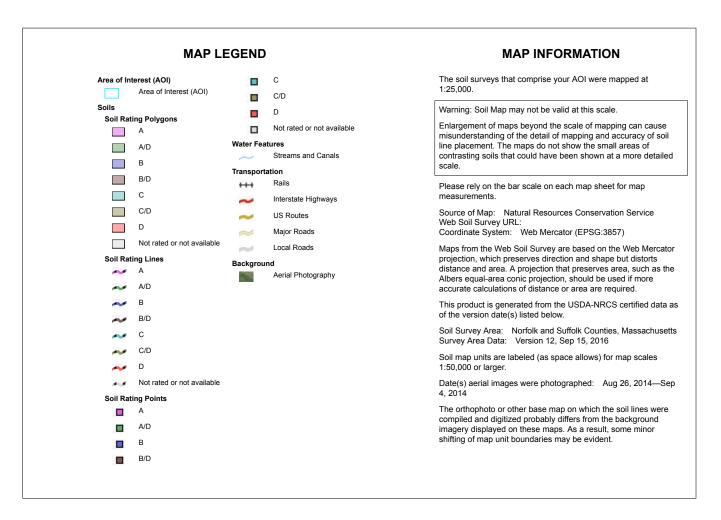
MAP LEGEND MAP INFORMATION Area of Interest (AOI) The soil surveys that comprise your AOI were mapped at 1:25,000. Area of Interest (AOI) C/D Soils Warning: Soil Map may not be valid at this scale. D Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil **Water Features** A/D line placement. The maps do not show the small areas of Streams and Canals contrasting soils that could have been shown at a more detailed В scale. Transportation B/D Rails Please rely on the bar scale on each map sheet for map С measurements Interstate Highways C/D Source of Map: Natural Resources Conservation Service Web Soil Survey URL: US Routes D Major Roads Coordinate System: Web Mercator (EPSG:3857) Not rated or not available Local Roads Maps from the Web Soil Survey are based on the Web Mercator Soil Rating Lines projection, which preserves direction and shape but distorts Background distance and area. A projection that preserves area, such as the Α Aerial Photography Albers equal-area conic projection, should be used if more A/D accurate calculations of distance or area are required В This product is generated from the USDA-NRCS certified data as of the version date(s) listed below B/D Soil Survey Area: Norfolk and Suffolk Counties, Massachusetts С Survey Area Data: Version 12, Sep 15, 2016 C/D Soil map units are labeled (as space allows) for map scales D 1:50,000 or larger. Not rated or not available Date(s) aerial images were photographed: Aug 10, 2014—Aug Soil Rating Points The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background A/D imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. B/D

Hydrologic Soil Group— Summary by Map Unit — Norfolk and Suffolk Counties, Massachusetts (MA616)					
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
103B	Charlton-Hollis-Rock outcrop complex, 3 to 8 percent slopes	A	4.4	11.0%	
312B	Woodbridge fine sandy loam, 0 to 8 percent slopes, extremely stony	C/D	1.8	4.6%	
602	Urban land, 0 to 15 percent slopes		4.0	10.0%	
630C	Charlton-Hollis-Urban land complex, 3 to 15 percent slopes		23.2	58.5%	
654	Udorthents, loamy	A	6.3	15.9%	
Totals for Area of Interest			39.8	100.0%	

Supplemental Site Analysis: Coakley







Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
4	Rippowam silt loam, 0 to 3 percent slopes	_	18.3	9.1%
71B	Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony	D	0.1	0.0%
73A	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	D	11.5	5.7%
103B	Charlton-Hollis-Rock outcrop complex, 3 to 8 percent slopes	A	0.0	0.0%
103C	Charlton-Hollis-Rock outcrop complex, 8 to 15 percent slopes	В	10.5	5.2%
251B	Haven silt loam, 3 to 8 percent slopes	В	11.6	5.8%
305B	Paxton fine sandy loam, 3 to 8 percent slopes	С	30.6	15.3%
305C	Paxton fine sandy loam, 8 to 15 percent slopes	С	5.0	2.5%
310B	Woodbridge fine sandy loam, 3 to 8 percent slopes	C/D	9.4	4.7%
420D	Canton fine sandy loam, 15 to 35 percent slopes	A	3.1	1.6%
602	Urban land, 0 to 15 percent slopes		8.0	4.0%
603	Urban land, wet substratum, 0 to 3 percent slopes		1.0	0.5%
626B	Merrimac-Urban land complex, 0 to 8 percent slopes	A	27.9	13.9%
628C	Canton-Urban land complex, 3 to 15 percent slopes	А	30.7	15.3%
653	Udorthents, sandy	А	16.2	8.1%
654	Udorthents, loamy	A	16.4	8.2%
Totals for Area of Interest			200.3	100.0%

Supplemental Site Analysis: Savage

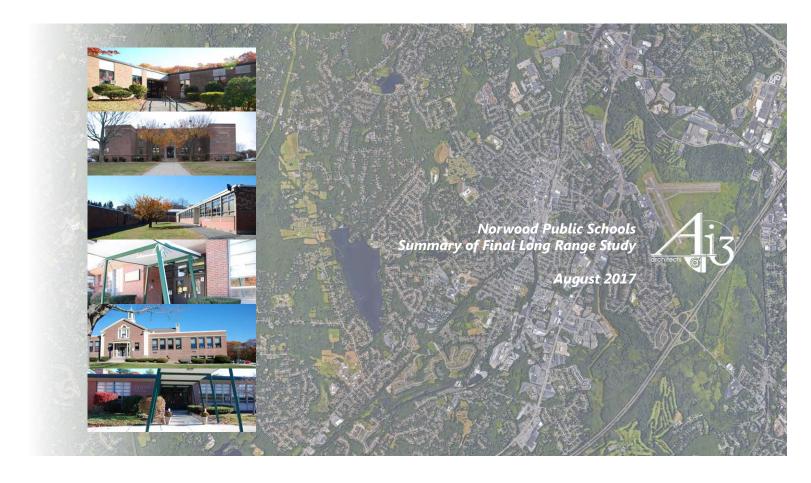


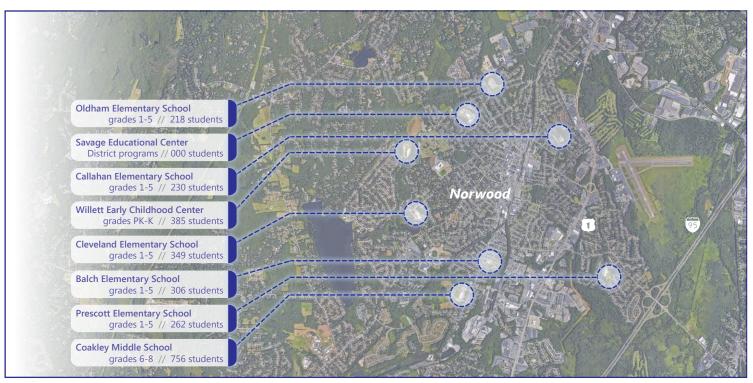


MAP LEGEND MAP INFORMATION Area of Interest (AOI) С The soil surveys that comprise your AOI were mapped at 1:25,000. Area of Interest (AOI) C/D Warning: Soil Map may not be valid at this scale. D Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil **Water Features** line placement. The maps do not show the small areas of A/D Streams and Canals contrasting soils that could have been shown at a more detailed В Transportation B/D Rails Please rely on the bar scale on each map sheet for map С Interstate Highways measurements. C/D Source of Map: Natural Resources Conservation Service US Routes Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Major Roads Not rated or not available Local Roads Maps from the Web Soil Survey are based on the Web Mercator Soil Rating Lines projection, which preserves direction and shape but distorts Background distance and area. A projection that preserves area, such as the Α Aerial Photography Albers equal-area conic projection, should be used if more A/D accurate calculations of distance or area are required. В This product is generated from the USDA-NRCS certified data as of the version date(s) listed below Soil Survey Area: Norfolk and Suffolk Counties, Massachusetts С Survey Area Data: Version 12, Sep 15, 2016 Soil map units are labeled (as space allows) for map scales D 1:50,000 or larger. Not rated or not available Date(s) aerial images were photographed: Aug 10, 2014—Sep Soil Rating Points The orthophoto or other base map on which the soil lines were Α compiled and digitized probably differs from the background A/D imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. В B/D

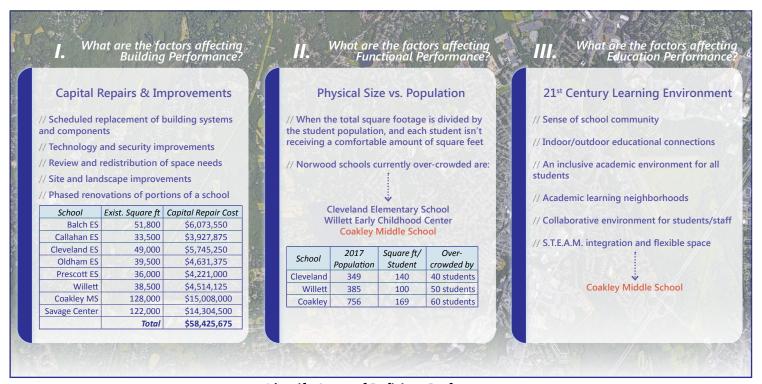
Hydrologic Soil Group— Summary by Map Unit — Norfolk and Suffolk Counties, Massachusetts (MA616)					
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
73A	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	D	4.6	8.0%	
623C	Woodbridge-Urban land complex, 3 to 15 percent slopes	C/D	14.5	25.1%	
630C	Charlton-Hollis-Urban land complex, 3 to 15 percent slopes		38.6	66.9%	
Totals for Area of Interest			57.7	100.0%	

School Committee Presentation from August 16, 2017

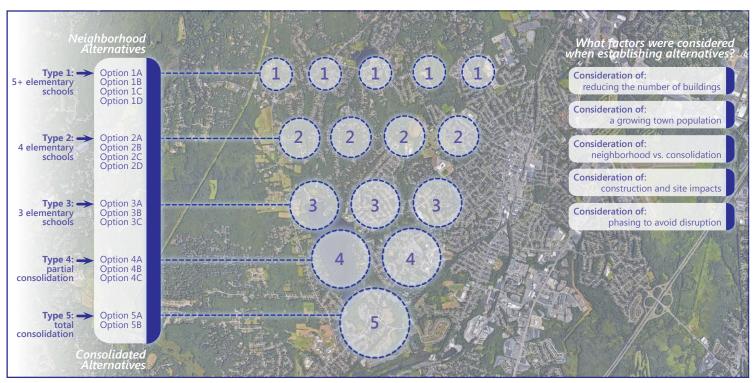




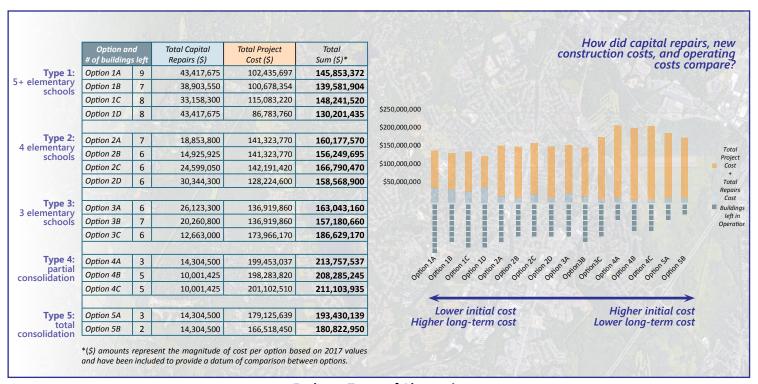
Evaluate Existing Conditions



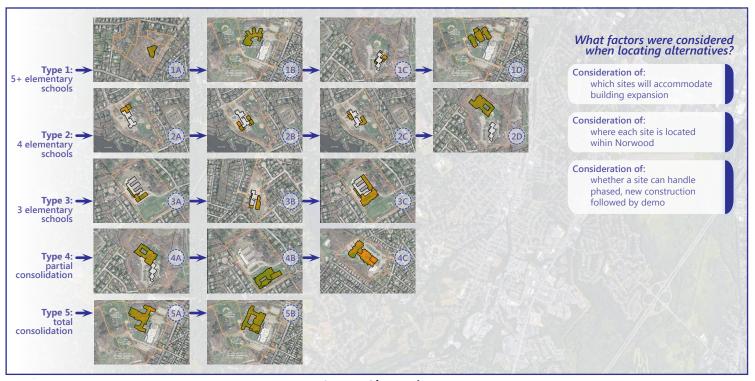
Identify Areas of Deficient Performance



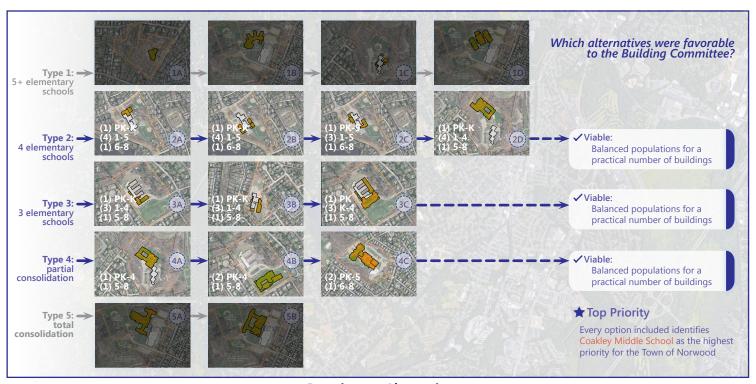
Establish Types of Alternatives



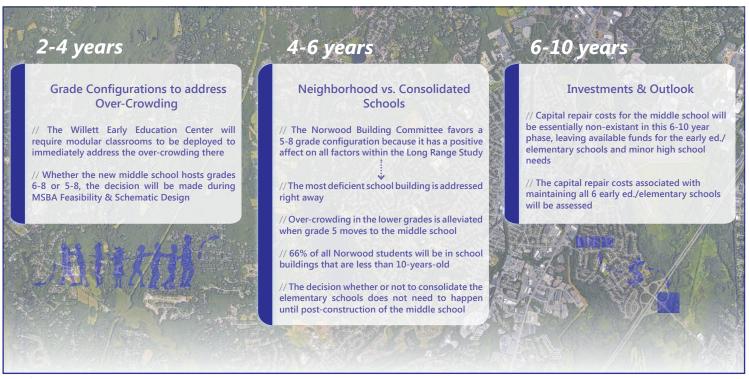
Evaluate Types of Alternatives



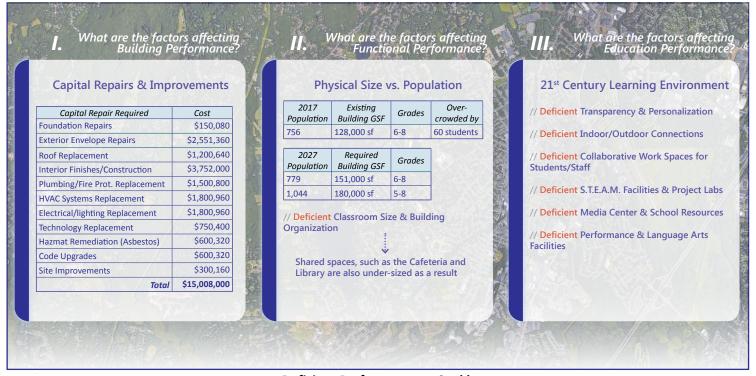
Locate Alternatives



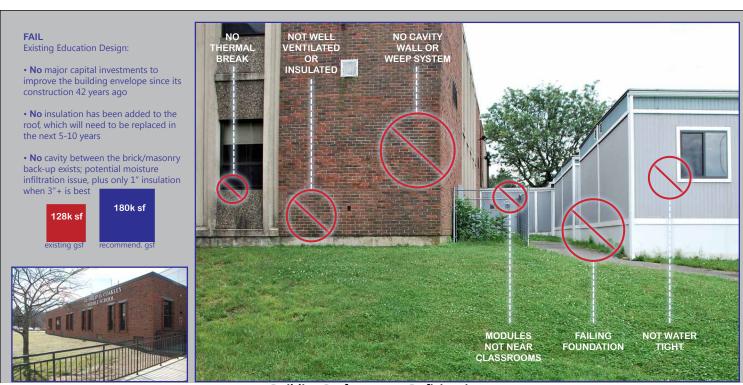
Reactions to Alternatives



Looking Ahead



Deficient Performance at Coakley



Building Performance: Deficiencies

- ✓ A 21st century school that is a leader in energy and environmental design
- ✓ Design of a weather-tight envelope that is more energy and cost efficient; tempered air remains inside, despite a constantly changing outdoor climate
- ✓ Use of glazing that allows for natural lighting while also providing views and pure ventilation
- ✓ A conscious awareness of the site it inhabits







Building Performance: Resolutions



Classroom Size & Organization: Deficiencies

- ✓ Academic neighborhoods facilitate team teaching, way-finding, and provide a sense of community or team within the larger school setting
- ✓ Layouts are structured to include sufficient storage and furniture that is flexible for varied lesson plans
- ✓ Core classrooms are bright, spacious and equipped with the proper technology, including 1:1 device capabilities





Classroom Size & Organization: Resolutions

FAIL Existing Education Design:

- No sign of connectivity or transparency; materials show signs of degradation and suggest that classrooms are prohibited
- No opportunity for display or flexible space because student storage consumes the corridors
- **No** sense of identity or life within the corridors

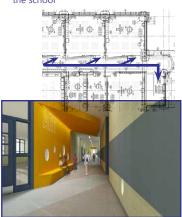




Transparency & Personalization: Deficiencies

PASS

- ✓ Modern, welcoming classroom entries that serve to showcase the learning and activity within
- ✓ Student storage is integrated in a fun and functional manner
- ✓ Corridors and classrooms are bright and contain elements that personalize the school





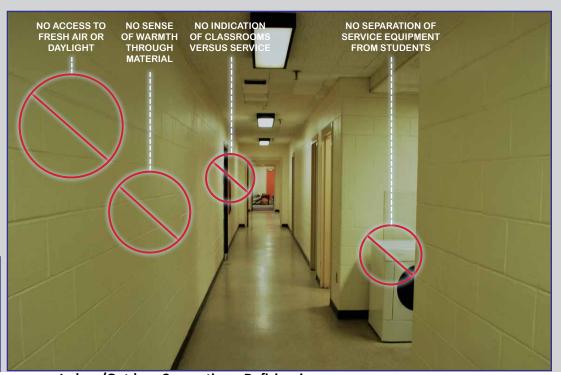
Transparency & Personalization: Resolutions

FAIL

Existing Education Design:

- **No** visibility to the outside of the building is disorienting
- **No** operable windows in classrooms that could provide fresh ventilation
- No spaces that engage indoor/ outdoor learning connections
- No naturally lit classrooms; many rooms in general are land-locked without windows to the outside





Indoor/Outdoor Connections: Deficiencies

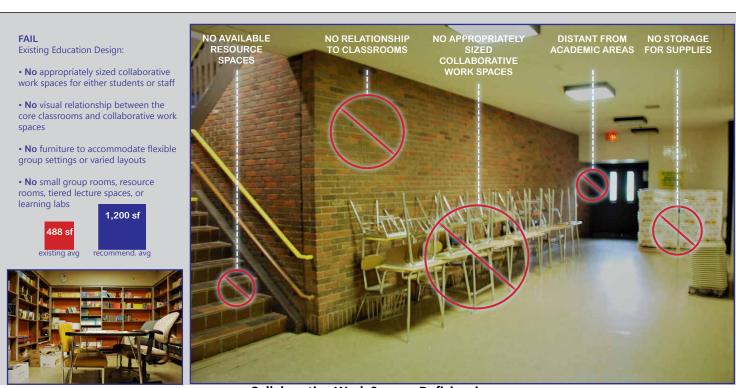
PASS

- ✓ Provides the natural daylight critical to students and staff who spend most of their days in a single classroom
- ✓ Operable windows and natural light to increase the performance of mechanical and electrical systems
- ✓ Classrooms that give students and staff members the sense of being outdoors, through creative strategies





Indoor/Outdoor Connections: Resolutions



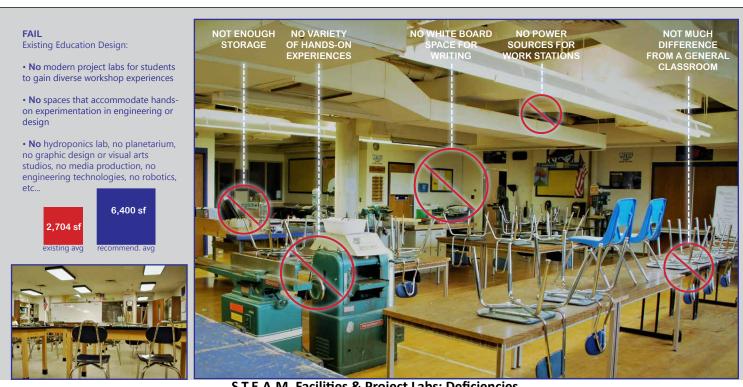
Collaborative Work Spaces: Deficiencies

- ✓ Spacious, available collaboration space that creates a positive link between teacher and student
- ✓ Collaboration spaces that are easily accessed and visible from classrooms
- ✓ Varied work settings that better assist a multitude of learning types
- ✓ Opportunities for solo or group work





Collaborative Work Spaces: Resolutions



S.T.E.A.M. Facilities & Project Labs: Deficiencies



21st Century Education Design:

- ✓ Space available for Science, Technology, Engineering, Art, and Math (S.T.E.A.M.) curricula
- ✓ Dedicated S.T.E.A.M. spaces integrated within academic classroom areas to provide interdisciplinary instruction
- ✓ Project labs that promote handson learning, a sense of discovery, and

independent investigation

grade 8 lab grade 7 lab

grade 6 lab

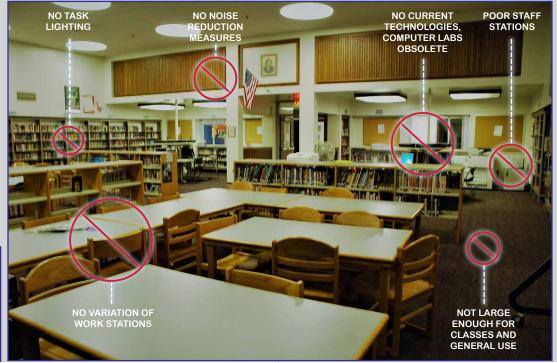




S.T.E.A.M. Facilities & Project Labs: Resolutions



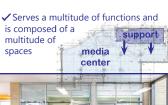
existing avg



Media Center & School Resources: Deficiencies

PASS

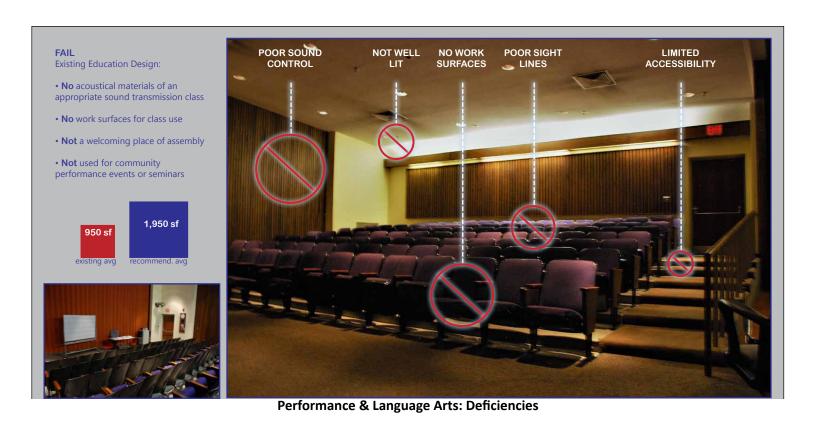
- ✓ Library/media center that operates as a highly advanced media retrieval center
- ✓ Located in close proximity to all academic functions to allow for key sharing of valuable resources
- ✓ Advanced technologies provided for in areas such as media production, digital arts, graphic design, and digital communication







Media Center & School Resources: Resolutions



- ✓ Provides an enhanced environment for learning arts and language
- ✓ Makes parent and community involvement, outreach events, and showcases for student work possible
- ✓ Acts as an auditory and oratory learning lab, which is as important as a hands-on learning labs when it comes to gaining practical experience





Performance & Language Arts: Resolutions



Existing Coakley Middle School Site Analysis



Existing Coakley Middle School Site Analysis



Existing Coakley Middle School Site Analysis



Existing Coakley Middle School Site Analysis



Existing Coakley Middle School Site Analysis



Existing Coakley Middle School Site Analysis



Existing Coakley Middle School Site Analysis



Existing Coakley Middle School Site Analysis



Proposed Coakley Middle School Site Modifications



Proposed Coakley Middle School Site Modifications



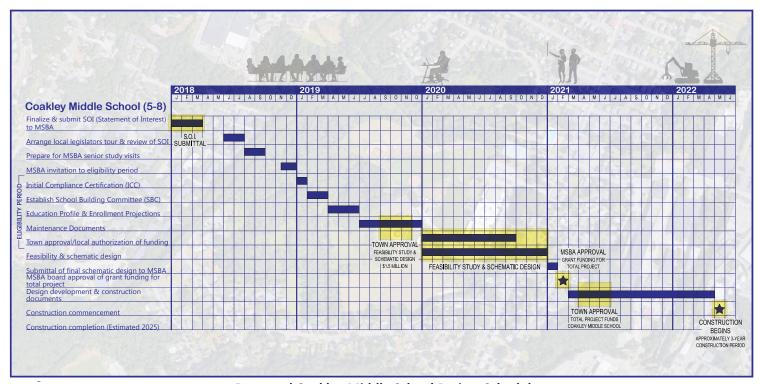
Proposed Coakley Middle School Site Modifications



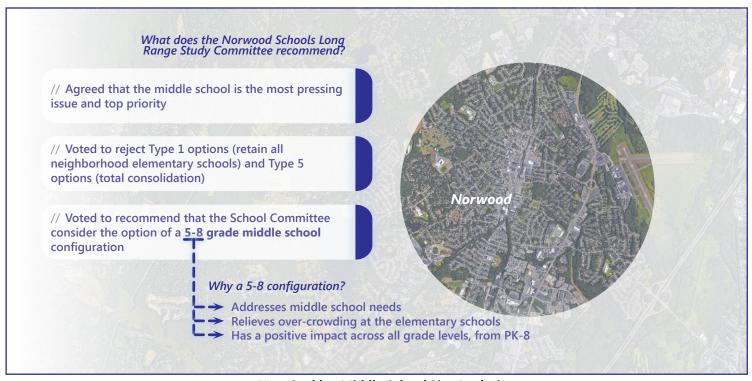
Proposed Coakley Middle School Site Modifications



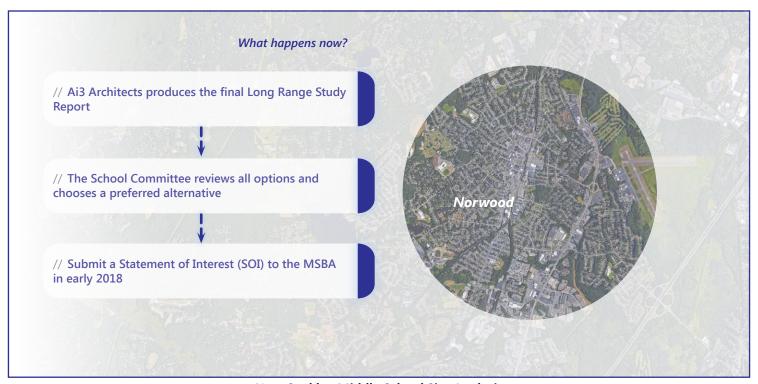
Proposed Coakley Middle School Site



Proposed Coakley Middle School Project Schedule



New Coakley Middle School Site Analysis



New Coakley Middle School Site Analysis

