



ADVISORY COMMITTEE

SPECIAL STUDY 2013

Sandy Hook School Advisory Committee

Site Evaluation Study

Table of Contents

April 12, 2013

Tab Label	Content
	Cover
	Table of Contents
Executive Summary	Executive Summary Guiding Principles Summary of Tier #1 & Tier #2 Sites Considered Tier #1 Summary Site Locations Relative to SHS District Tier #2 Summary Site Locations Relative to SHS District Projected Timeline - Normal Process Projected Timeline - Collaborative Process
Tier I Sites	
Conceptual Renovation Prototype	Conceptual Building Renovation Narrative Conceptual Building Renovation Plans & Elevations
Site #1 - 12 Dickinson Drive w/Renovation Design	Site Evaluation Narrative Traffic Analysis Narrative Existing Conditions Aerial Existing Conditions Topography Proposed Site Plan Proposed Grading Plan
Conceptual New Building Prototype	Conceptual New Building Narrative Conceptual New Building Plans & Elevations Conceptual New Building Renderings
Site #1 - 12 Dickinson Drive w/New Building Prototype	Site Evaluation Narrative - 1A - Crestwood Entry/Exit Traffic Analysis Narrative - 1A - Crestwood Entry/Exit Existing Conditions Aerial Existing Conditions Topography Proposed Site Plan -1A - Crestwood Entry/Exit Proposed Grading Plan - 1A - Crestwood Entry/Exit Site Evaluation Narrative - 1B - Crestwood Entry/ Dickinson Exit Traffic Analysis Narrative - 1B - Crestwood Entry/Dickinson Exit Proposed Site Plan -1B - Crestwood Entry/Dickinson Exit Proposed Grading Plan - 1A - Crestwood Entry/Dickinson Exit
Site #2 – 7 & 9 Bennett’s Bridge Road, Sandy Hook	Site Evaluation Narrative Traffic Analysis Narrative Existing Conditions Aerial Existing Conditions Topography Proposed Site Plan Proposed Grading Plan
Site #3 - 21 Mile Hill Road (FFH), Newtown	Site Evaluation Narrative Traffic Analysis Narrative Existing Conditions Aerial Existing Conditions Topography Proposed Site Plan Proposed Grading Plan
Site #4 – Commerce Road (Tech Park), Newtown	Site Evaluation Narrative Traffic Analysis Narrative Existing Conditions Aerial Existing Conditions Topography Proposed Site Plan Proposed Grading Plan
Site #5 – 28 Riverside Road, Sandy Hook	Site Evaluation Narrative Traffic Analysis Narrative Existing Conditions Aerial Existing Conditions Topography Proposed Site Plan Proposed Grading Plan

Sandy Hook School Advisory Committee

Site Evaluation Study

Table of Contents

April 12, 2013

Tab Label	Content
Tier II Sites	
Site #6 -203 Berkshire Road, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #7 -11 Cherry Street, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #8 - 207 Walnut Tree Hill Road, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #9 - 285 Berkshire Road, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #10 -79 Church Hill Road, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #11 - 5 Morgan Drive, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Tab #16 – Site #12 - 8 Homer Clark, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #13 - 10 Bennett’s Bridge Road, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #14 - 14 Bennett’s Bridge Road, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #15 - 56 Pole Bridge Road, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #16 - 96 Toddy Hill Road, Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Site #17 - 49 Philo Curtis Road (Treadwell Park), Sandy Hook	Site Evaluation Narrative Existing Conditions Aerial Existing Conditions Topography
Tier III Sites	
Other Sites Considered	Tier III General Site Evaluation Narrative Listing of Tier III Sites Map of Tier III Sites (also incl. Some Tier I & Tier II)
Appendices	
Cost Summary Analysis -Tier #1 Sites	Executive Summary - Project Costs Summary Site 1 - Construction Costs Summary Site 1a - Construction Costs Summary Site 1b - Construction Costs Summary Site 2 - Construction Costs Summary Site 3 - Construction Costs Summary Site 4 - Construction Costs Summary Site 5 - Construction Costs
Detailed Estimate for Conceptual Renovation Prototype	Detailed Estimate Breakdown Building Detailed Estimate Breakdown Site 1
Detailed Estimate for Conceptual New Building Prototype	Detailed Estimate Breakdown Building Detailed Estimate Breakdown Sites 1a, 1b, 2, 3, 4, 5
Professional Company Bio's	Town of Newtown Land Use Agency All-Star Transportation BL Companies, Inc. Cherry Hill Construction Company Claris Construction, Inc. Turner Construction Company Chris Laux - Code Consultant

April 12, 2013

Pat Llodra
First Selectwoman
Town of Newtown
3 Primrose Street
Newtown, CT 06470

RE: Sandy Hook Elementary School
Advisory Committee – Executive Summary

Purpose

This advisory committee as appointed by the First Selectwoman was tasked with researching and investigating all potential properties within the Town of Newtown, with special emphasis on the borough of Sandy Hook, with suitable characteristics for the site location of Sandy Hook Elementary School.

Guiding Principles

The committee has taken into consideration the guiding principles as set forth by the First Selectwoman which were derived in conjunction with the Town residents as well as its own principles listed in this report which guided its actions in the site evaluation process.

Process

The committee is represented by professionals within the Town and community with background in land use, planning, civil engineering and geography, architecture, construction management, traffic engineering, code consultants and facility management. The committee has engaged individuals from the local bus transportation company, security specialists and specialists within the industry from across the country as needed to advise on specific aspects as needed.

The committee has evaluated over 40 properties in Town which have been evaluated on location, usable acreage, property restrictions, current infrastructure, permitting required from Federal, State and local agencies, offsite improvements required, costs and scheduling along with many other criteria listed in this report.

After evaluation of the criteria established all properties were sorted into three categories; Tier #1 - properties for further consideration, Tier #2 – properties considered but dismissed for overall conformance to criteria and Tier#3 – Properties which meet acreage criteria, but dismissed for property restrictions and overall conformance to criteria.

In order to evaluate each site on an overall cost basis it was essential to establish a conceptual building prototype which could be used on all sites for final consideration (Tier #1). The purpose of a prototype is to allow evaluation of the sites without bias of individual building designs specific for each site. As one of the final sites considered is the existing location of the school, a conceptual renovation building prototype was also established. The prototypes were established with input from design professionals, constructors and industry specialists with input on current facility limitations from facilities management. The prototypes represent a single story, programmatic footprint which was the baseline to be placed on all sites chosen for final consideration for cost and scheduling evaluation.

Results

There are five sites which the committee has deemed acceptable to study further (Tier #1) which included placement of the concept building prototypes, production of preliminary site layout and grading drawings and development of cost and schedule characteristics for these sites. Based on this analysis it is evident that each site has unique characteristics which upon final evaluation over the next month requires discussion on the overall approach to property procurement, building layout, site grading and future property uses. From a cost and schedule perspective, some properties may lend themselves to a partial 2-story building layout or stepped building design to improve the sitework costs on those properties as well as improve scheduling durations.

The overall cost analysis for the Tier#1 sites is located in the appendices for your review. There are two preliminary schedules included in this analysis to provide general timeframes required for school construction projects. The first indicates a process which is typical for permits and approvals and the second represents a more aggressive parallel approval approach which is currently being reviewed by both State and Federal governments. This second approach was generated in the spirit of the guiding principles with the intent to bring the children back to Newtown as soon as practicable. It is important to note that overall durations for construction may vary slightly depending on the overall extent of the sitework and demolition required (17-21 months).

Conclusion

We trust that the information included within this study meets the original intent of our charge. We stand ready to review in detail with you, your representatives and the public to discuss the content of this study in more detail with the goal of choosing the site that best fits the overall needs of the children and the community.

NOTES:



Newtown School Advisory Committee

Guiding Principles

April 12, 2013

Selectman

1. No redistricting
2. Locate school in (or immediate proximity to) the geographic region called Sandy Hook
3. Ensure sufficient land at site for school, playground, parking lot, and ball field
4. Perceptions and emotional and status of faculty/staff should influence recommendations
5. Emotions and perceptions of families of victims and of survivors are very influential
6. Opinions of Sandy Hook school parents and community must be considered
7. Location/site must be compatible with safety expectations
8. Return students to Newtown as soon as good planning can allow for
9. Both short and long term thinking should guide site selection and building design
10. Consider positive and negative physical attributes associated with chosen site (i.e. Dickinson Drive, Fire House, CAC)

Advisory Committee

1. Transformative and uplifting design (look & feels different, non-institutional)
2. Satisfies current requirements of K-12 school facilities
3. State of the art security technology for K-12 school facilities
4. Safe & efficient transportation access to facility
5. Open facility as soon as practicable
6. Maximizes infrastructure (utilities, traffic & roadways, future planning)
7. Building lifespan 60-75 years
8. Satisfy current building codes
9. Meet and/or exceed current energy codes
10. Cost efficient (analyze both 1st and 2nd costs)

Summary of Tier #1 and Tier #2 Sites Considered Sandy Hook Advisory Committee 4/12/2013

Unique #	Site	SH School District	Town Owned Land	Acreage	Utilities Present	Current Structures	Municipal Proximity	OSTA Permit
T 1	12 Dickinson Dr, Sandy Hook	Within District	Yes	12.2	S/W/3P/NG	Yes, Demolition or Renovation	SHFD < 500FT	No
I 2	7 / 9 Bennetts Bridge Rd, Sandy Hook	Within District	No, all land to be purchased	22	3Phase	Yes	None within 1 Mile	Yes
E 3	21 Mile Hill Rd. South, FFH, Newtown	Not in District	Yes	6, campus	S/W/3P/NG	Yes, Building Demolished	Campus Facility	Yes
R 4	Commerce Rd, Newtown (Tech Park)	Not in District	Yes	37	S/W/3P/NG	No	FFH < 1/2 Mile	Yes
I 5	28 Riverside Rd, Sandy Hook	Within District	No, purchase of some property	6	S/W/3P/NG	Yes, Building Demolished	SHFD < 500FT	No

Unique #	Site	SH School District	Town Owned Land	Acreage	Utilities Present	Current Structures	Municipal Proximity	OSTA Permit
6	203 Berkshire Rd, Sandy Hook	Within District	No, all land to be purchased	65	3Phase	Yes, Building Demolished	None within 1 Mile	Yes
T 7	11 Cherry St, Sandy Hook	Within District	No, all land to be purchased	9	None	No	SHFD < 1/2 Mile	No
I 8	207 Walnut Tree Hill, Sandy Hook	Not in District	Yes	5	3Phase	No	None within 1 Mile	No
E 9	285 Berkshire Rd, Sandy Hook	Within District	No, all land to be purchased	147	3Phase	No	None within 1 Mile	Yes
R 10	79 Church Hill Rd, Sandy Hook	Not in District	No, all land to be purchased	34	S/W/3P/NG	No	SHFD < 1/2 Mile	Yes
11	5 Morgan Drive, Sandy Hook	Within District	No, all land to be purchased	30	3Phase	Yes	None within 1 Mile	No
II 12	8 Homer Clark, Sandy Hook	Within District	No, all land to be purchased	30	3Phase	Yes	None within 1 Mile	Yes
13	10 Bennettes Bridge Rd, Sandy Hook	Within District	No, all land to be purchased	68	3Phase	No	None within 1 Mile	Yes
14	14 Bennettes Bridge Rd, Sandy Hook	Within District	No, all land to be purchased	30	3Phase	No	None within 1 Mile	Yes
15	56 Pole Bridge Road, Sandy Hook	Within District	No, all land to be purchased	56	None	No	None within 1 Mile	Yes
16	96 Toddy Hill Rd, Sandy Hook	Not in District	No, all land to be purchased	28	3Phase	No	None within 1 Mile	Yes
17	49 Philo Curtis, Sandy Hook (Tredwell Park)	Within District	No, all land to be purchased	45	3Phase	Yes	SHFD < 1/2 Mile	No

Summary of Tier #1 and Tier #2 Sites Considered

Sandy Hook Advisory Committee

4/12/2013

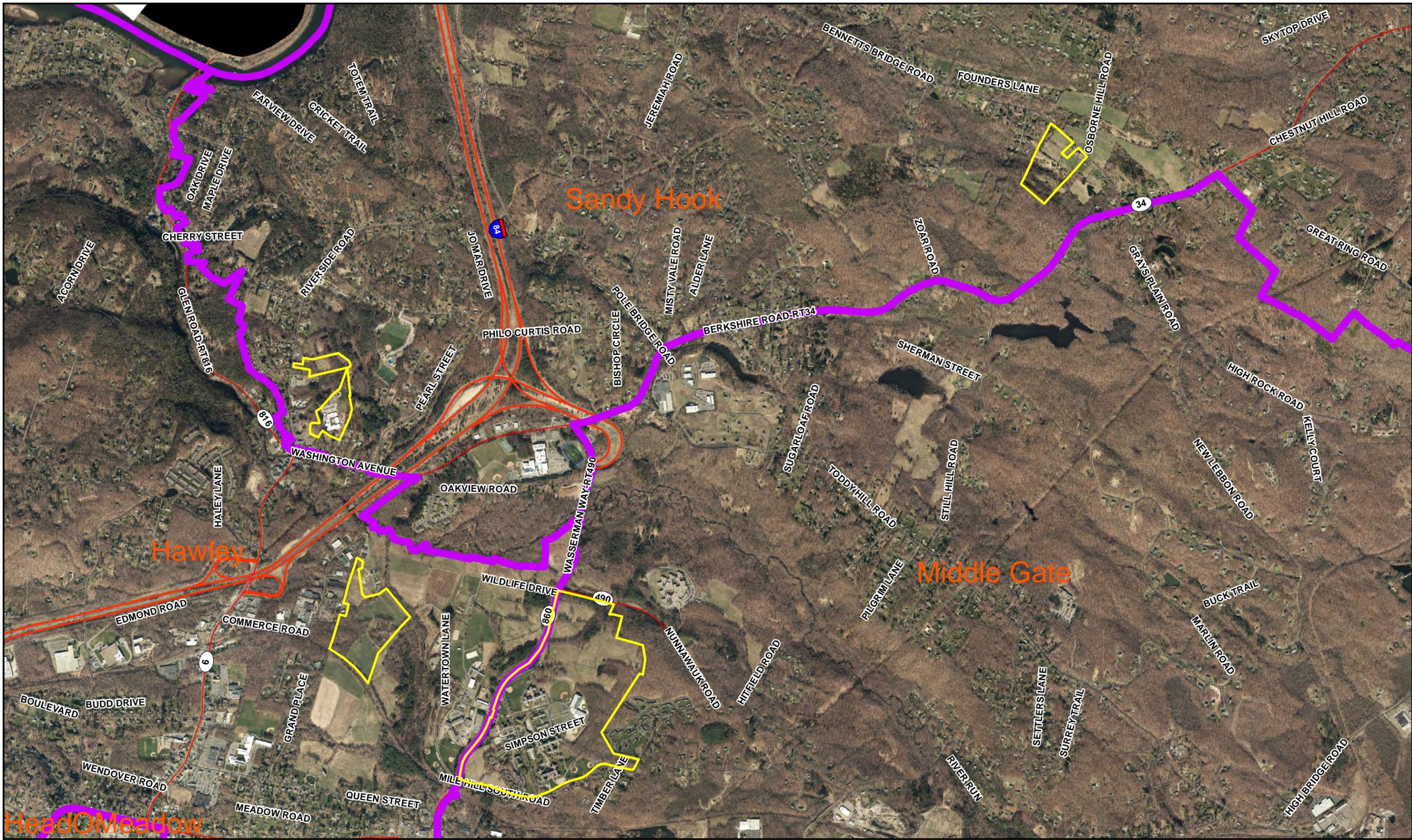
Unique #	Site	Traffic	Access/Transportation	Off-site Development
T 1	12 Dickinson Dr, Sandy Hook	N/A	Crestwood Drive / Dickinson Drive	Road Widening, Intersection Work
I 2	7 / 9 Bennetts Bridge Rd, Sandy Hook	State/Town Approval/Traffic Light	RTE 34/Bennetts Bridge	Road Widening, Road Construction/Elevation Work, Intersection Work
E 3	21 Mile Hill Rd. South, FFH, Newtown	State/Town Approval	Mile Hill South / Wasserman Way	Road Widening, Intersection Work
R 4	Commerce Rd, Newtown (Tech Park)	State/Town Approval	Church Hill / Commerce	Road Construction/Elevation Work, Intersection Work
I 5	28 Riverside Rd, Sandy Hook	Town Approval	Riverside Road / Dickinson Drive	Road Widening, Road Construction/Elevation Work

Unique #	Site	Traffic	Access/Transportation	Off-site Development
6	203 Berkshire Rd, Sandy Hook	State/Town Approval/Traffic Light	RTE 34	Road Widening, Road Elevation Work
T 7	11 Cherry St, Sandy Hook	Town Approval	Cherry Street	Road Widening, Road Construction/Elevation Work
I 8	207 Walnut Tree Hill, Sandy Hook	Town Approval	Bridge End Farm Road	Road Widening, Intersection Work
E 9	285 Berkshire Rd, Sandy Hook	State/Town Approval	RTE 34/Stone Bridge Trail	Road Widening, Road Construction/Elevation Work, Intersection Work
R 10	79 Church Hill Rd, Sandy Hook	State/Town Approval/Traffic Light	Church Hill / Walnut Tree	Road Widening, Road Construction/Elevation Work, Intersection Work, Federal Gas Pipeline approval
11	5 Morgan Drive, Sandy Hook	Town Approval	Jeremiah Rd	Road Widening, Road Construction/Elevation Work, Intersection Work
II 12	8 Homer Clark, Sandy Hook	State/Town Approval	Homer Clark Ln / RTE 34	Road Widening, Road Construction/Elevation Work, Intersection Work
13	10 Bennettes Bridge Rd, Sandy Hook	State/Town Approval/Traffic Light	RTE 34 /Osborne	Road Widening, Multiple Intersections Work, Road Elevation Work
14	14 Bennettes Bridge Rd, Sandy Hook	State/Town Approval/Traffic Light	RTE 34 /Osborne	Road Widening, Multiple Intersections Work, Road Elevation Work
15	56 Pole Bridge Road, Sandy Hook	Town Approval	Pole Bridge Rd	Road Widening, Multiple Intersections Work, Road Elevation Work
16	96 Toddy Hill Rd, Sandy Hook	Town Approval	Toddy Hill Rd	Road Widening, Intersection Work
17	49 Philo Curtis, Sandy Hook (Tredwell Park)	Town Approval	Philo Curtis Rd.	Road Widening, Road Construction/Elevation Work, Intersection Work

Summary of Tier #1 and Tier #2 Sites Considered Sandy Hook Advisory Committee 4/12/2013

Unique #	Site	Site Work	Aquifer Area	Wetlands	Floodplain
T 1	12 Dickinson Dr, Sandy Hook	Level, Minimal Site Work	Yes	Local?	No
I 2	7 / 9 Bennetts Bridge Rd, Sandy Hook	Sloped Ledge, Moderate Site Excavation	No	Local Permits	No
E 3	21 Mile Hill Rd. South, FFH, Newtown	Level, Minimal Site Work	Yes	N/A	No
R 4	Commerce Rd, Newtown (Tech Park)	Sloped, Moderate Site Excavation	Yes	Local / ACOE	No
I 5	28 Riverside Rd, Sandy Hook	Sloped Ledge, Extensive Site Excavation	Yes	Local / ACOE	No

Unique #	Site	Site Work	Aquifer Area	Wetlands	Floodplain
6	203 Berkshire Rd, Sandy Hook	Level, Minimal Site Work	No	Local / ACOE?	No
T 7	11 Cherry St, Sandy Hook	Sloped Ledge, Moderate Site Excavation	Yes	N/A	No
I 8	207 Walnut Tree Hill, Sandy Hook	Level, Minimal Site Work	No	Local / ACOE	Yes
E 9	285 Berkshire Rd, Sandy Hook	Sloped Ledge, Extensive Site Excavation	No	Local Permits	No
R 10	79 Church Hill Rd, Sandy Hook	Sloped Ledge/Material, Extensive Site Excavation	Yes	Local / ACOE	No
11	5 Morgan Drive, Sandy Hook	Level, Minimal Site Work	No	Local Permits	No
II 12	8 Homer Clark, Sandy Hook	Level, Minimal Site Work	No	Local Permits	No
13	10 Bennettes Bridge Rd, Sandy Hook	Sloped Ledge, Moderate Site Excavation	No	Local Permits	No
14	14 Bennettes Bridge Rd, Sandy Hook	Level, Minimal Site Work	No	Local Permits	No
15	56 Pole Bridge Road, Sandy Hook	Sloped Ledge, Moderate Site Excavation	No	N/A	No
16	96 Toddy Hill Rd, Sandy Hook	Level, Minimal Site Work	No	N/A	No
17	49 Philo Curtis, Sandy Hook (Tredwell Park)	Sloped, Moderate Site Excavation	Yes	N/A	No

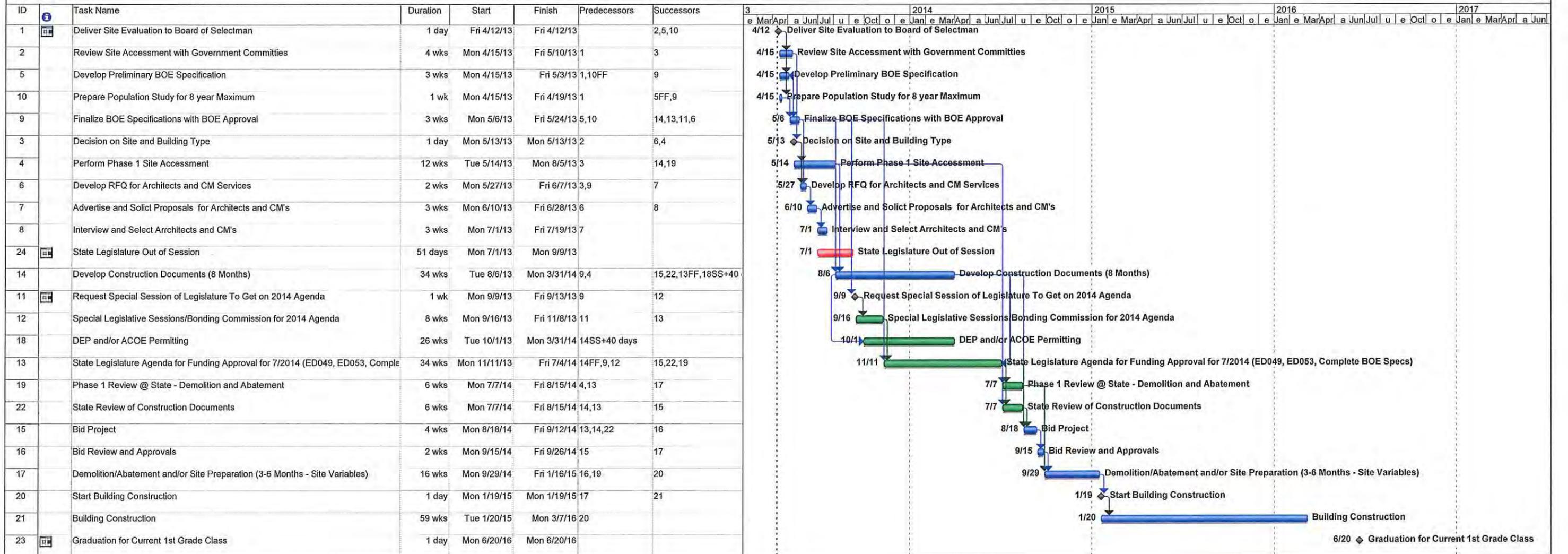


Sandy Hook School Proposed Sites - Tier I



0 875 1,750 3,500 Feet
 Rob Sibley - April 12, 2013

Projected Timeline - Normal Process



Project: SHS Normal Process 4.12.13
Date: Tue 4/9/13

Task Progress Summary External Tasks Deadline
Split Milestone Project Summary External Milestone

NOTES:



Prototype - Renovation Pre K-5 School Design

Purpose:

The Prototype design for the renovated Pre K-5 school was to provide a comprehensive re-design for the existing building at the existing site with additions and upgrades that satisfy any previous functional, mechanical, structural or safety deficiencies and addresses potential class expansion. The renovation prototype was also intended to provide an uplifting experience, both visually and functionally, to returning and new students alike.

This similarity in scope enabled the site engineers and estimators to evaluate the renovation option of the existing building, where it stands, more equitably with the new prototype building design at any other potential building site.

Design:

This renovation prototype re-design is intended to address not only the deficiencies of the previous school building but endeavors to create a more efficient and attractive facility with state of the art security measures and a renewed life cycle of 75 years. The re-design was derived from historical precedent, extensive document review and interviews with officials, experts and strategic consultants. This design has not been vetted by the Newtown School Board or other pertinent town organization(s) and not expected to represent the final design of the school. The design is a comprehensive prototype with its purpose only to allow the committee to evaluate costs and site locations. The building program included the following design directives:

1. Transformative Design

- Use the latest standards for school design including “daylighting” and fresh air
- Create a feeling of security for the children yet not “institutional”
- Make it a happy place with a feeling of joy
- Create a healthier building using innovative materials and methods.

2. Security and Safety

- Integrated building security systems including video surveillance & access control.
- Security office, safe rooms, minimal entrances and high external windows.

3. Energy Efficiency

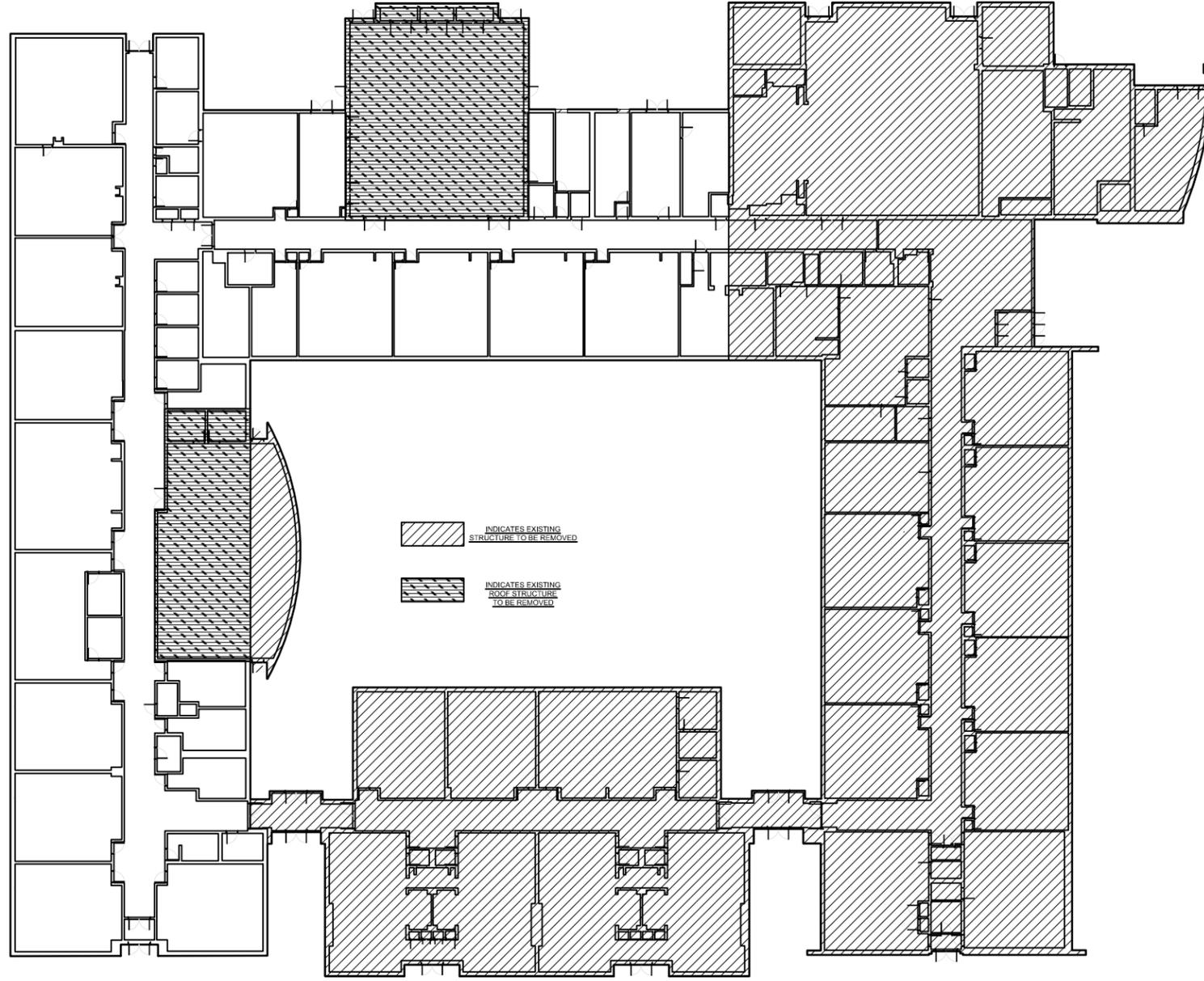
- Green Design including: Geo Thermal, Solar panels & waterless urinals
- High efficiency LED Luminaires & “Smart” Skylights throughout.
- Tilt-up insulated concrete wall panels.
- High-Efficiency Mechanical System & Conditioned air thru-out
- Radiantly heat floors in all classrooms

4. History and Remembrance

- While there are no particular design issues with the previous building’s appearance it was decided to alter the buildings appearance and relocate the main entrance to create a new experience. This was intended to ease and possibly alleviate any trepidation.

Summation:

The overall building re-design is progressive in that it was developed with the clear intent of creating a building that uses state of the art materials and methods to drastically reduce maintenance and energy costs throughout the life of the structure. The building design also integrates some of the most advanced security design criteria and building systems available. The building’s new appearance and revised layout was also intended to ease and possibly alleviate any apprehension or anxiety of returning to the same site.



1
D1 EXISTING SCHOOL DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

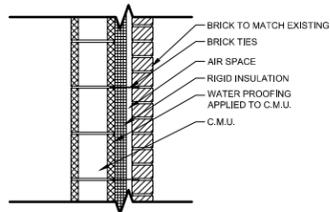


DEMOLITION PLAN

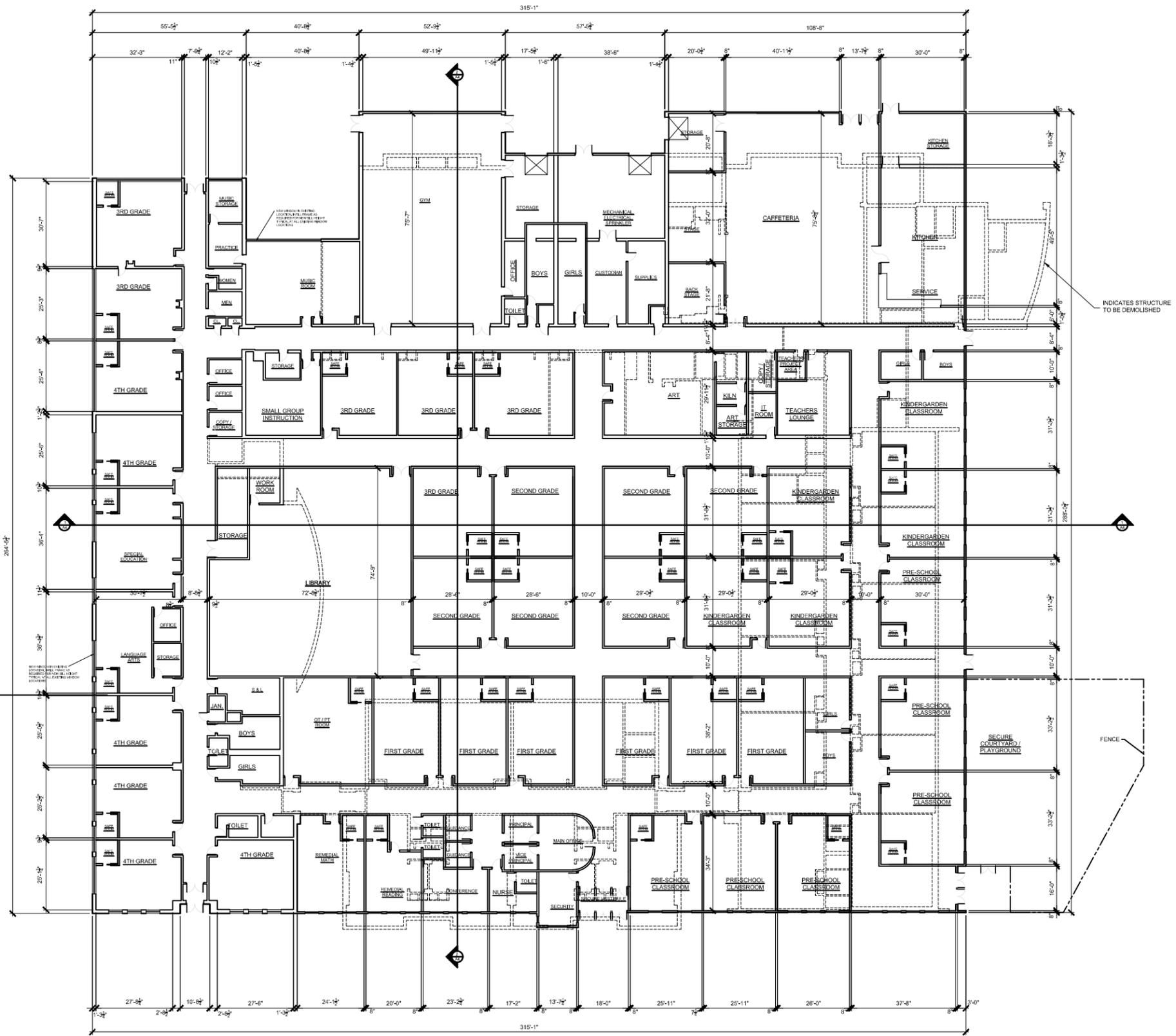
PROJECT:
SANDY HOOK ELEMENTARY SCHOOL
RENOVATION PROTOTYPE
NEWTOWN, CONNECTICUT

DATE	04/08/13
DESIGNED BY	JWK
CHECKED BY	AS NOTED

D1



2
A1 TYPICAL EXTERIOR WALL CONSTRUCTION
SCALE: 1/8" = 1'-0"



1
A1 PROPOSED FLOOR PLAN
SCALE: 1/16" = 1'-0"

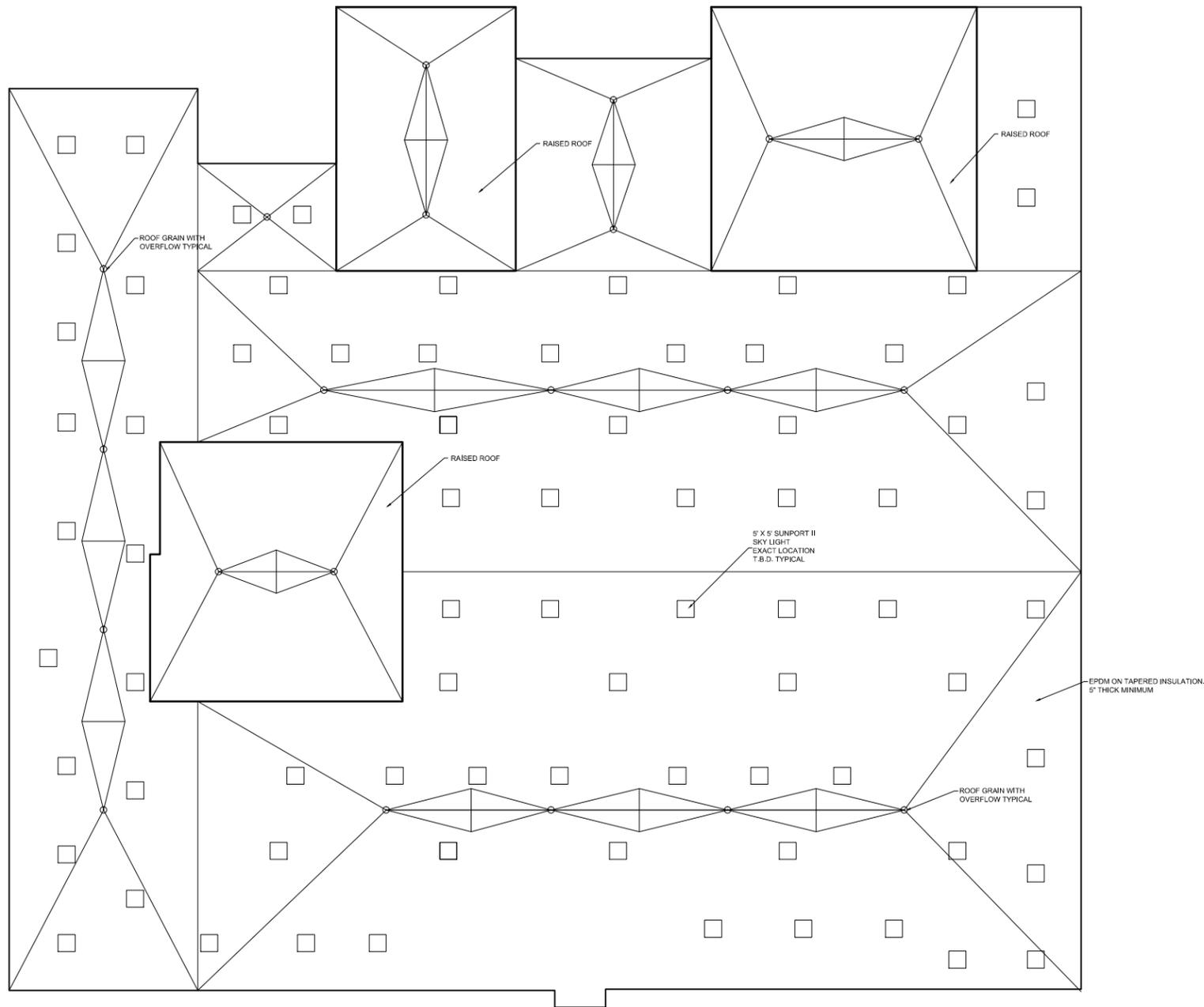


FLOOR PLAN

PROJECT:
SANDY HOOK ELEMENTARY SCHOOL
RENOVATION PROTOTYPE
NEWTOWN, CONNECTICUT

DATE	04/08/13
DESIGNED BY	JWK
CHECKED BY	AS NOTED

A1



1 ROOF PLAN
 SCALE: 1/16" = 1'-0"



ROOF PLAN

PROJECT:
 SANDY HOOK ELEMENTARY SCHOOL
 RENOVATION PROTOTYPE
 NEWTOWN, CONNECTICUT

DATE	04/08/13
DESIGNED BY	JWK
CHECKED	
AS NOTED	

A3

NOTES:



MEMORANDUM

DATE: April 12, 2013
TO: Sandy Hook School Advisory Committee
PREPARED BY: BL Companies
PROJECT: New Sandy Hook School Site
SUBJECT: Site Evaluation Narrative – Site 1 – 12 Dickinson Drive
Sandy Hook Renovation, Crestwood Drive Full Access

Highlights of the proposed renovation site plan are as follows:

- This site is within the Sandy Hook School District.
- School entrance at southeast side of building with a building FFE = 270.0±
- Primary school access drive (entrance/exit) located at Crestwood Drive. Crestwood Drive will be modified to become a 28' wide 2-lane/2-way road. See traffic narrative for other proposed traffic improvements.
- Access drives to front of school will rise up to building FFE at a slope of 5%. The proposed site layout results in approximately 182 parking spaces.
- Small portions of two abutting properties on the northwest side of school property will need to be acquired for grading and parking expansion purposes.
- Existing water and sanitary mains coming from Crestwood Drive will be modified as required. Power/telephone/CATV will be pulled in from existing 3-phase overhead power lines located on Dickinson Drive. A new gas main will be installed in Crestwood Drive up to and into the school property.
- The existing Dickinson Drive will be used as an emergency drive only.
- The proposed bus pick-up/drop-off area is to occur on the south side of the building and is independent of Pre-K and Grades K-5 student drop-off areas.
- The existing multipurpose/soccer field will be relocated to the north side of the building along with a new outdoor group play structure and basketball/play court. The existing baseball field will remain.
- A new site drainage system will be installed along with a BMP oil/water separator chamber and stormwater basin. No wetlands filling is proposed, thus no DEEP or ACOE wetlands permits are required for this proposed site plan.
- A retaining wall is required along a small portion of the westerly property line.
- This site will require partial demolition of the existing Sandy Hook School.

NOTES:



**SANDY HOOK SCHOOL
TRAFFIC ANALYSIS NARRATIVE**

Newtown, Connecticut

April 12, 2013

Site #1 - Existing School – 12 Dickinson Drive, Sandy Hook

This is the location of the existing School. In this Alternative the existing School remains; however, is renovated. In this Alternative all access to the School would be from Crestwood Drive from Washington Avenue.

A preliminary evaluation of maintaining this as the Sandy Hook Elementary School and providing all access to and from the School from Crestwood Drive would require significant roadway improvements to this roadway from Washington Avenue to the School access drive.

Crestwood Drive is a very narrow, private roadway, serving several existing homes. It has a narrow pavement width and generally one travel lane and would require upgrading and widening of the road to provide two travel lanes, drainage improvements and significant improvements at its intersection with Washington Avenue. The intersection of Crestwood Drive at Washington Avenue would also require significant modifications to the northeast corner to provide appropriate intersection sight distance for exiting movements. It would require the complete removal and regrading of the area in front of the existing residential home to maximize sight lines to the left (east) when exiting Crestwood Drive. This may not be feasible. Furthermore, significant modifications would be needed to accommodate School buses and passenger vehicles on Crestwood Drive.

Any modifications to Crestwood Drive and Washington Avenue do not need the Connecticut Department of Transportation (ConnDOT) approval since Washington Avenue is a Town road and Crestwood Drive is a private road. Also, an approval from the Office of the State Traffic Administration (OSTA) is not needed since the building size and number of parking spaces will be under the criteria to consider this School a Major Generator.

Frederick P. Clark Associates, Inc.
April 12, 2013



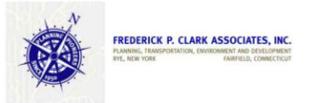
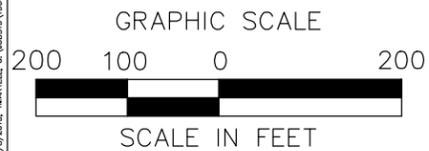
Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE

4/8/2013, 11:47:20 AM, G:\PROJECTS\1304503\DWG\1304503-01.DWG, SK-01 (AERIAL) 11x17 200SC.



Sandy Hook School • Site No. 1 - 12 Dickinson Drive, Newtown, Connecticut • April 12, 2013

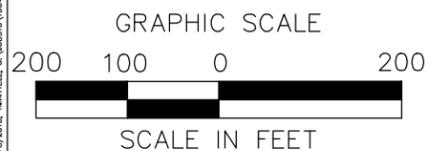


Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  SOILS LIMIT AND TYPE
-  TREELINE



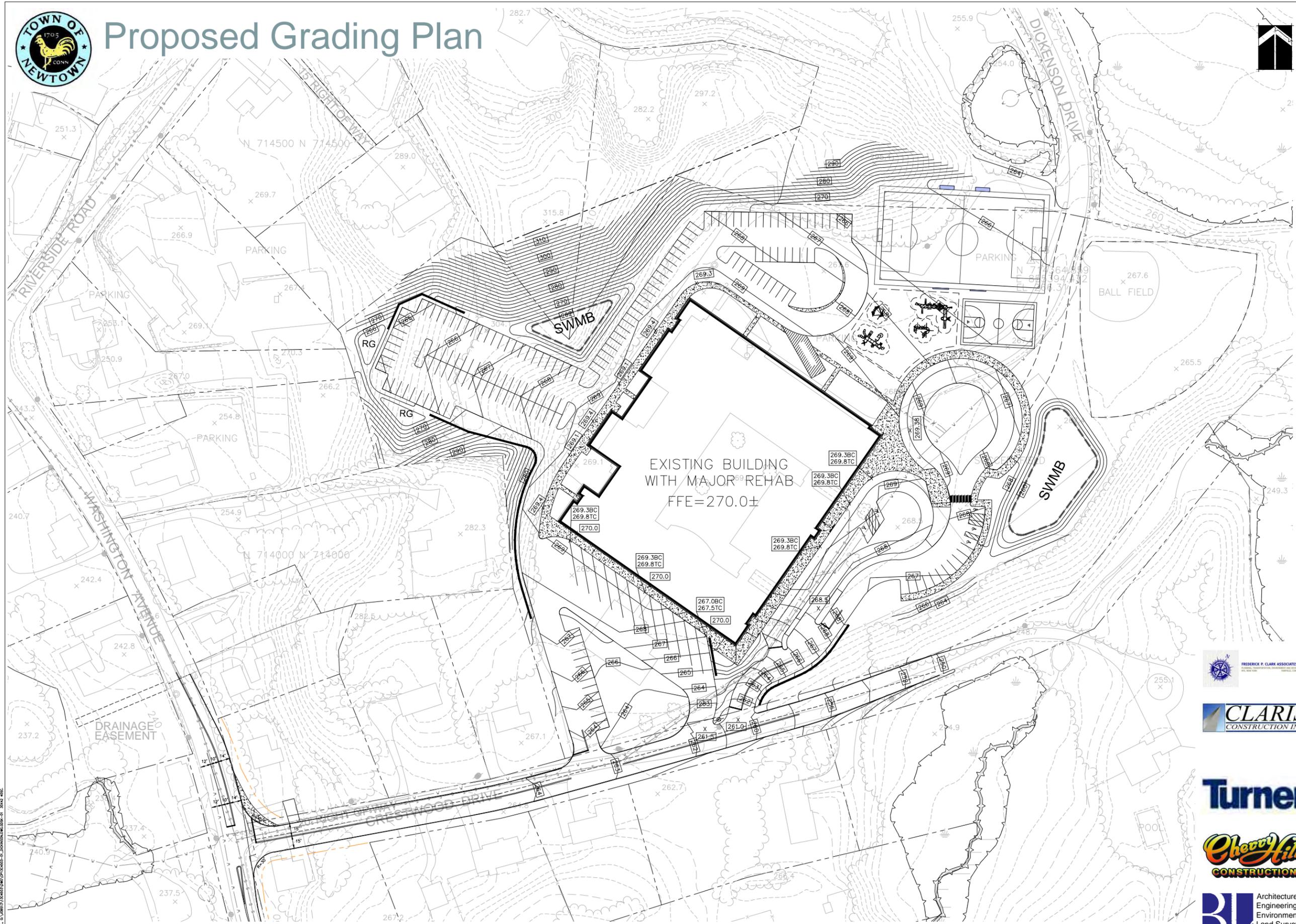
Sandy Hook School • Site No. 1 - 12 Dickinson Drive , Newtown, Connecticut • April 12, 2013

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Proposed Grading Plan



Sandy Hook School • Site No. 1 (Renovation) - 12 Dickinson Drive, Newtown, Connecticut • April 12, 2013

12/12/2012 10:46:11 AM... 2012 12 12 10:46:11 AM... 2012 12 12 10:46:11 AM...

GRAPHIC SCALE
40 20 0
SCALE IN FEET

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NOTES:



Prototype - New Pre K-5 School Design

Purpose:

The Prototype for a New Pre K-5 building was designed to provide a singular and comprehensive building design which would enable the site engineers to evaluate more than 30 potential building sites equitably. The same building design and footprint would be used on each site and allow the advisory committee to more precisely estimate each sites total project cost.

Design:

The New Prototype is a low maintenance facility with a 75 year life cycle that incorporates both traditional and unique specific building design criteria for a K-5 elementary school. This design criterion was derived from historical precedent, extensive document review and multiple interviews with officials, experts and strategic consultants. This design has not been vetted by the Newtown School Board or other pertinent town organization(s) and not expected to represent the final design of the school. The design is a comprehensive prototype with its purpose only to allow the committee to evaluate costs and site locations. The building program included the following directives:

1. Transformative Design

- Use the latest standards for school design including “daylighting”
- Create a feeling of security for the children yet not “institutional”
- Make it a happy place with a feeling of joy
- A healthy building using 100% natural make up air
- Radiantly heated floors for all classrooms and AC thru-out
- Flexible Design for potential site specific alterations.

2. Security and Safety

- Security office with integrated building security systems in overall design.
- Safe rooms, secure courtyards, minimal entrances and high external windows.
- Video Surveillance, Access Control, and a comprehensive lock down system

3. Energy Efficiency

- Green Design including: Geo Thermal, Solar panels & waterless urinals
- High efficiency LED Luminaires & “Smart” Skylights throughout.
- Tilt-up insulated concrete wall panels.
- Decentralized High-Efficiency Mechanical System

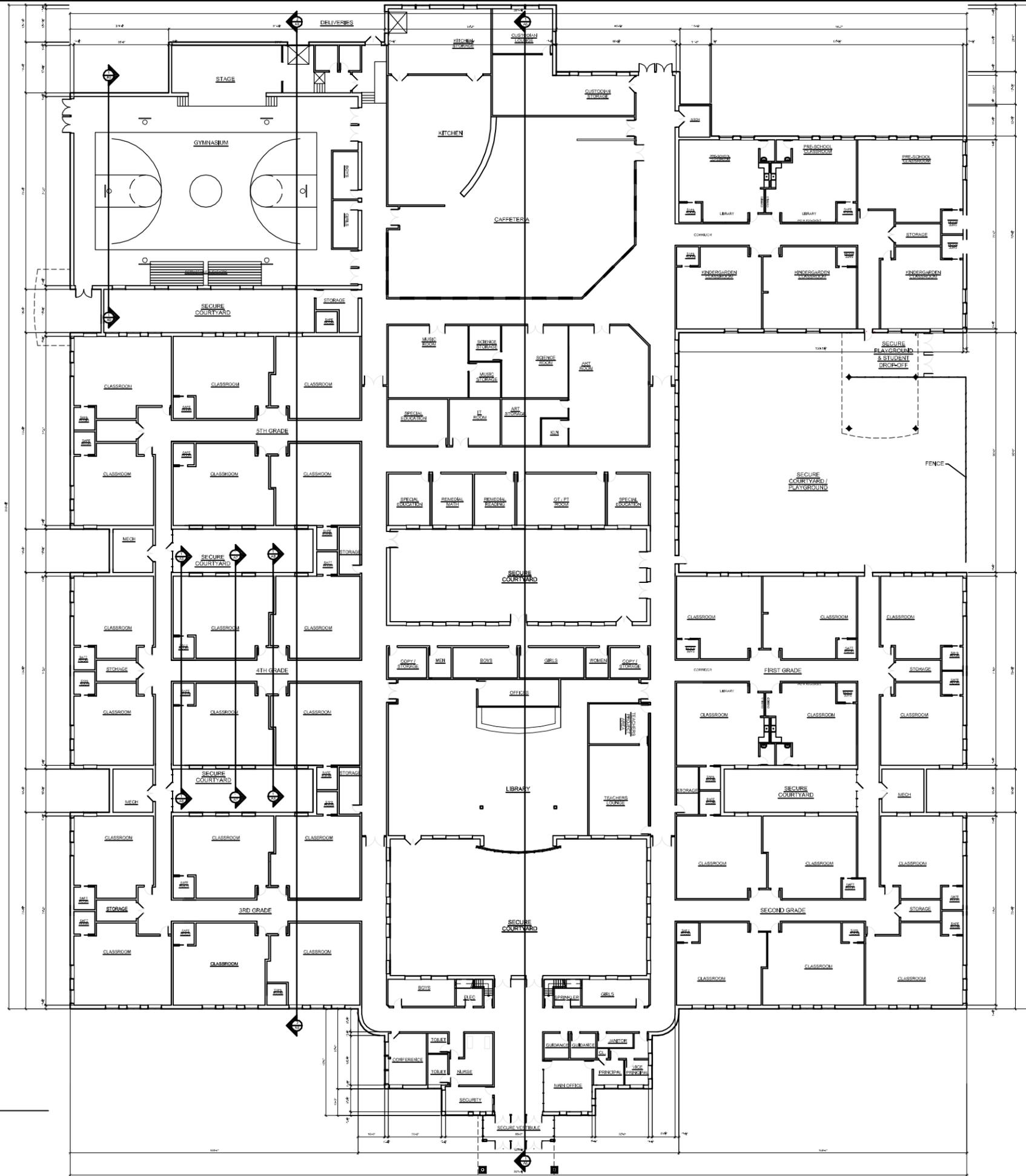
4. History and Remembrance

- The surrounding Town’s architecture is a strong influence on the design of the building’s facades. The brick walls and gabled ends draw its roots from the Hawley Town Hall, Hawley Elementary School, Town Library, and the Fairfield Hills Campus.
- The building’s shape resembles many of the homes and barns that were built in the town in the 1700 and 1800’s.
- 26 glass cupolas with their spire pointing towards heaven are positioned on the roof as a simple remembrance for the 26 victims of December 14th.

Summation:

The overall building design is very progressive in that it was developed with the clear intent of creating a building that uses state of the art materials and methods to drastically reduce maintenance and energy costs throughout the life of the structure. The building integrates some of the most advanced security design criteria and building systems available. Yet, its design and architectural detailing pays tribute to both the town’s history and the school’s past.

1 FLOOR PLAN
 A1 SCALE: 1/16" = 1'-0"



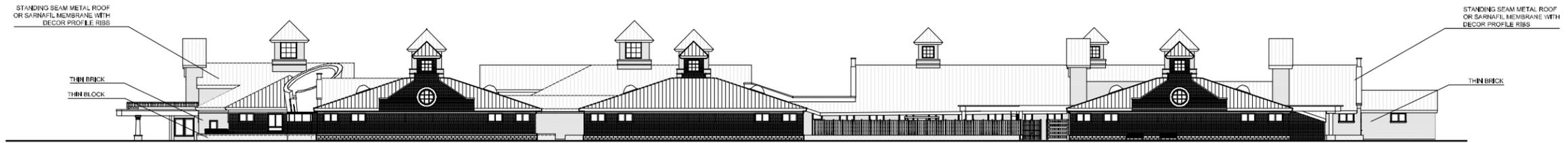
FLOOR PLAN

PROJECT:
 SANDY HOOK ELEMENTARY SCHOOL
 NEW BUILDING PROTOTYPE
 NEWTOWN, CONNECTICUT

DATE:	04/08/13
DRAWN BY:	JWK
SCALE:	AS NOTED

A1

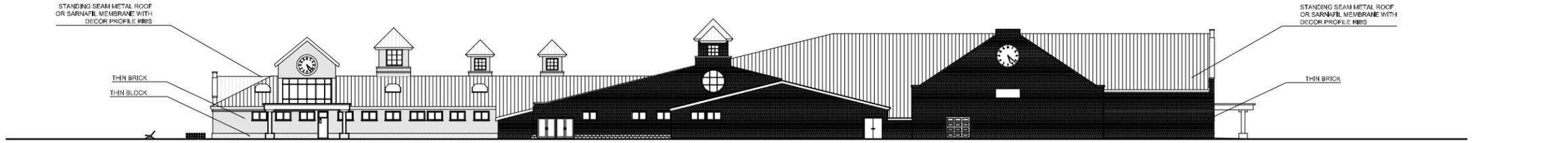
ELEVATIONS



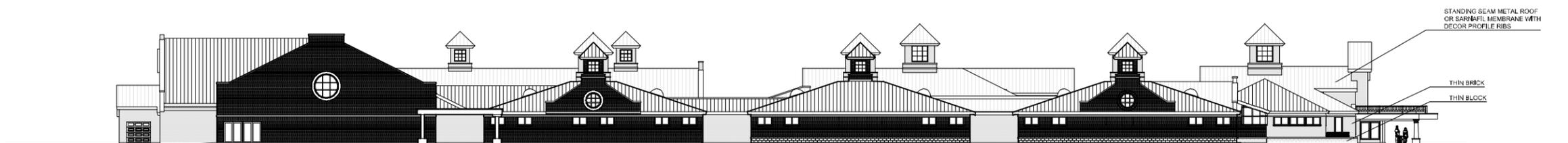
1 RIGHT ELEVATION
SCALE: 1/16" = 1'-0"



2 FRONT ELEVATION
SCALE: 1/16" = 1'-0"



3 REAR ELEVATION
SCALE: 1/16" = 1'-0"

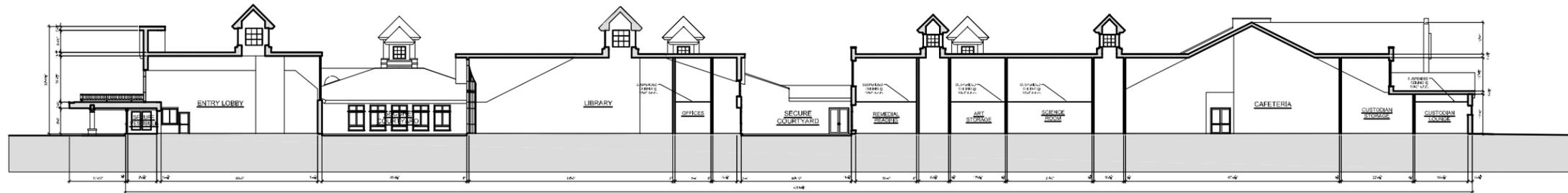


4 LEFT ELEVATION
SCALE: 1/16" = 1'-0"

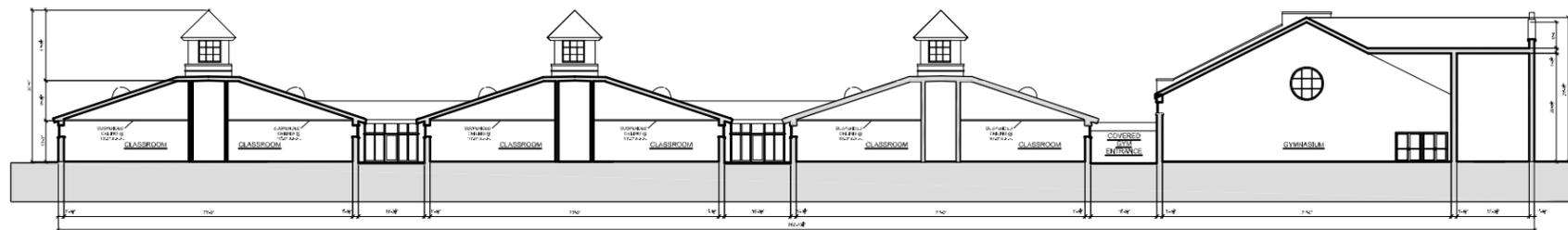
PROJECT:
SANDY HOOK ELEMENTARY SCHOOL
NEW BUILDING PROTOTYPE
NEWTOWN, CONNECTICUT

DATE: 04/08/13
DRAWN BY: JWK
SCALE: AS NOTED

A2



1 SECTION
A5 SCALE: 1/16" = 1'-0"



2 SECTION
A5 SCALE: 1/16" = 1'-0"

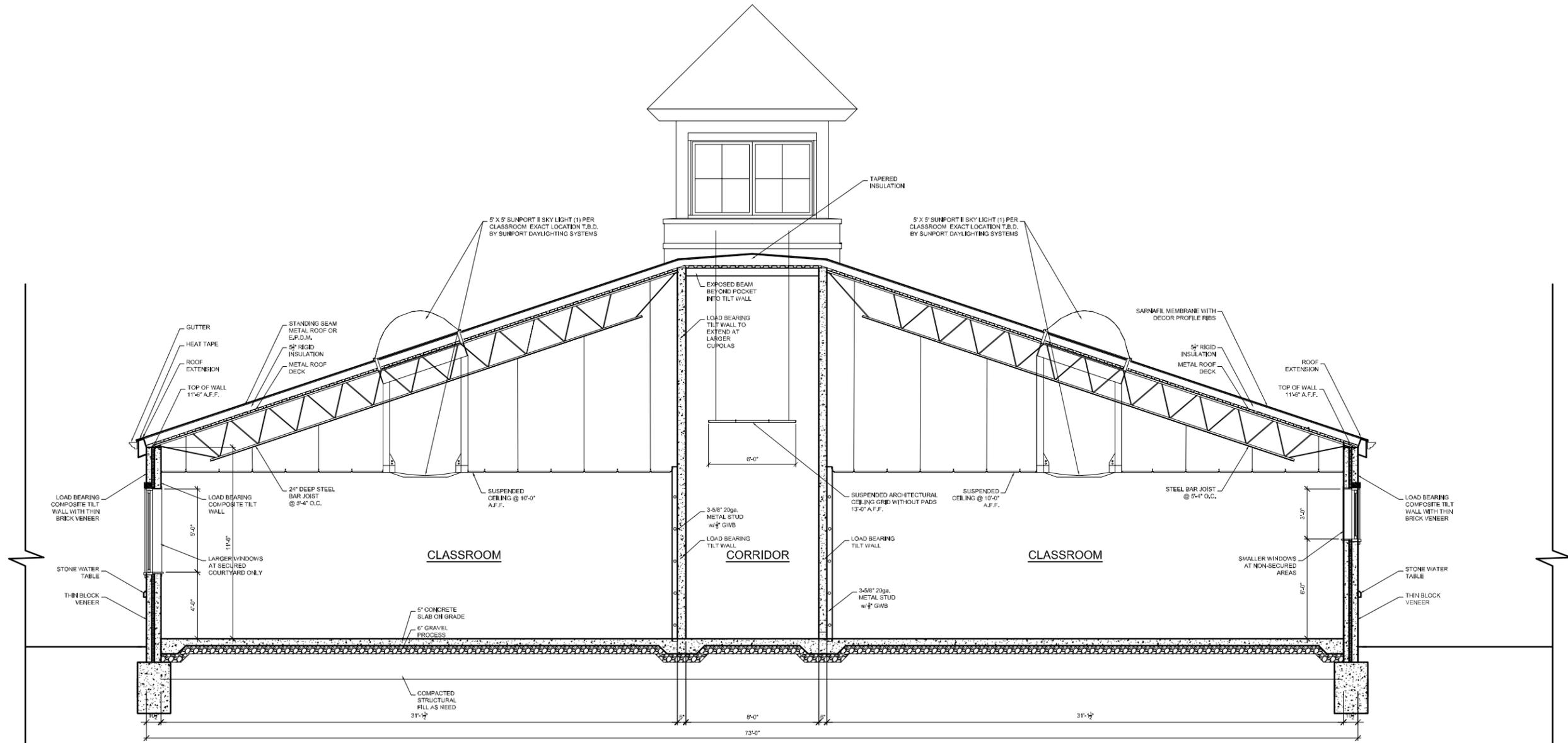
FINISH LEGEND						
ITEM	CODE	MANUFACTURER	SERIES OR PATTERN	#	COLOR	REMARKS
CARPET 1	CPT-1		CARPET TILE		DARK	GLUE DOWN
CARPET 2	CPT-2		BROADLOOM		DARK	GLUE DOWN W/ RUBBER TRANS. STRIP
VINYL BASE 1	VB-1	JOHNSONITE	COVE AT HARD SURFACES - 6"		TBD	
VINYL BASE 2	VB-2	JOHNSONITE	STRAIGHT AT CARPETED AREAS - 4"		TBD	
CERAMIC TILE 1	CT1	TBD	FLOOR TILE AND BASE			ANTI-SLIP FINISH
CERAMIC TILE 2	CT2	TBD	WALL TILE			GLOSS FINISH
QUARRY TILE	QT-1	TBD			RED	ANTI-SLIP FINISH
VINYL PLANK	VP	GERFLOR	TARAFLEX SPORT M PLUS		OAK	GYM FLOOR - PAINTED LINES
ENGINEERED WOOD	W	TBD	PREFINISHED OAK			
POLISHED CONCRETE	PC	VEXCON	CERTISHINE - PATTERNS / COLORS TBD		TBD	COLORLED EXPOSED AGGREGATE
SEALED CONCRETE	SC	W.R. MEADOWS	VOCMP 25			2 COATS - MECH / ELEC ROOMS
RECYCLED RUBBER	RR	KBI	FLEXI-PAVE		CYPRESS	877-524-3539
RESILIENT STAIRS	ST	JOHNSONITE	RUBBER TREADS, RISERS, LANDINGS	ROUNDEL		STAIR TOWERS
ACOUSTIC CEILING 1	ACT-1	ARMSTRONG	SCHOOL ZONE FF, HUMIGUARD +	2'X2'	WHITE	Class A Non-combustible w/1/5/16" grid face
ACOUSTIC CEILING 2	ACT-2	USG	WIREWORKS 2'X2' W/ 2'X2" CELLS	2'X2'	WHITE	Class A Non-combustible w/1/5/16" grid face
ACOUSTIC CEILING 3	ACT-3	CERTAINTEED	ECOPHONE FOCUS DG	2'X2'	WHITE	Class A Non-combustible w/1/5/16" grid face
ACOUSTIC CEILING 4	ACT-4	ARMSTRONG	GWB VINYL STIPPLE FINISH	2'X2'	WHITE	Class A Non-combustible w/1/5/16" grid face
ACOUSTIC CEILING 5	ACT-5	ARMSTRONG	CERAMAGUARD FF W/ HUMIGUARD MAX	2'X2'	WHITE	Class A Non-combustible w/1/5/16" grid face
SOUND Baffles	SB	KINETICS	SOUND ABSORPTION WAVE Baffles	SE	TBD	CAFETERIA AND LOBBY
LAMINATE 1	PL-1	FORMICA / WILSONART			TBD	HORIZONTAL
LAMINATE 2	PL-2	FORMICA / WILSONART			TBD	VERTICAL
SOLID SURFACE	SS-1	CORIAN / LGHIMACS			TBD	COUNTERTOPS
PAINTE 1	P1	BM / SW	INTERIOR EGGSHELL		TBD	1 PRIMER, 2 FINISH WALLS
PAINTE 2	P2	BM / SW	INTERIOR SEMI-GLOSS		TBD	1 PRIMER, 2 FINISH WALLS
PAINTE 3	P3	BM / SW	INTERIOR SEMI-GLOSS		TBD	1 PRIMER, 2 FINISH DRS, FRMS, TRIM
PAINTE 4	P4	BM / SW	INTERIOR EGGSHELL		TBD	
WOOD DOORS		GRAHAM OR EQUAL	PREFINISHED CLEAR RED OAK			
HARDWARE		SARGENT	GRADE 1 - BRUSHED CHROME FINISH			
TOILET ACCESSORIES		BOBBRICK	STAINLESS STEEL			
TOILET PARTITIONS		SCRANTON PRODUCTS	SOLID PLASTIC		SILVER	ANTI-GRAFFITI FINISH

NOTE ALL CABINERY TO RECEIVE SOLID SURFACE TOPS, STAINLESS STEEL UNDERMOUNT BOWLS, PLASTIC LAMINATE VERTICAL SURFACES, DOORS, DRAWERS, AND SHELVING.

ROOM FINISH SCHEDULE										
Room	Rm. Name	Floor	Base	Wall Finishes	Trim	Ceiling	Millwork	Uppers	Notes	
				Field	Accent		Top	Base		
TYP.	OFFICES/LOUNGE/CONF./ED.	CPT-1	VB-2	P1		P3	ACT-1			
TYP.	CLASSROOMS	PC / CPT-2	VB-1	P2		P3	ACT-1		SEE PLAN FOR CPT-2 LOCATIONS	
TYP.	HALLWAYS	PC	VB-1	P2		P3	EXP / ACT-2		SEE PLAN FOR ACT-2 LOCATIONS	
TYP.	LAB / ART ROOM	CPT-1	VB-1	P2		P3	ACT-1			
TYP.	MUSIC ROOM	CPT-1	VB-2	P2		P3	ACT-3			
TYP.	GYM	VP	VB-1	P2		P3	EXP			
TYP.	STAGE	W	W	P2		P3	EXP			
TYP.	LOBBY	PC	VB-1	P2		P3	EXP / SB			
TYP.	CAFETERIA	PC	VB-1	P2		P3	EXP / SB			
TYP.	KITCHEN	QT-1	QT-1	P2		P3	ACT-4			
TYP.	LIBRARY	CPT-1	VB-2	P1		P3	ACT-1			
TYP.	NURSE	PC	VB-1	P2		P3	ACT-5			
TYP.	TOILET ROOMS	CT-1	CT-1	P2		P3	ACT-5			
TYP.	MECH / ELEC	SC	VB-1	P2		P3	ACT-1			
TYP.	JANITOR	PC	VB-1	P2		P3	ACT-1			
TYP.	COURTYARDS	RR	RR			N/A				
TYP.	STAIRS	ST	VB-1	P2		P3	ACT-1			

NOTE ALL CABINERY TO RECEIVE SOLID SURFACE TOPS, STAINLESS STEEL UNDERMOUNT BOWLS, PLASTIC LAMINATE VERTICAL SURFACES, DOORS, DRAWERS, AND SHELVING.

SECTION



1 SECTION
A7 SCALE: 3/8" = 1'-0"

PROJECT:
SANDY HOOK ELEMENTARY SCHOOL
NEW BUILDING PROTOTYPE
NEWTOWN, CONNECTICUT

DATE:	04/08/13
DRAWN BY:	JMK
CHECKED BY:	
SCALE:	AS NOTED

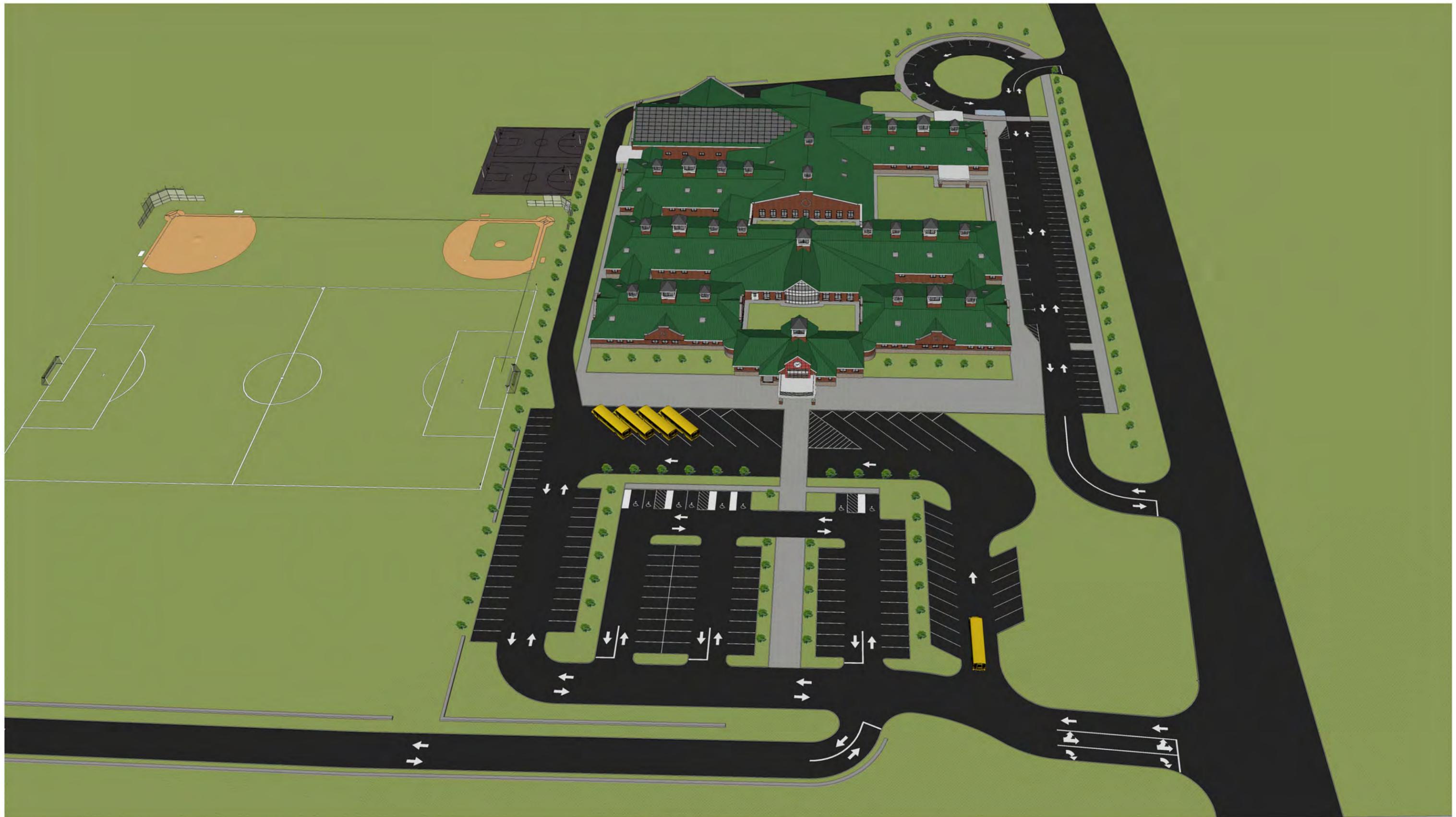
A7



Entrance Perspective
Sandy Hook School
Conceptual New Building Prototype
Newtown, Connecticut



Road Perspective
Sandy Hook School
Conceptual New Building Prototype
Newtown, Connecticut



Birdseye Perspective
Sandy Hook School
Conceptual New Building Prototype
Newtown, Connecticut



Rear Drop Off Perspective

Sandy Hook School
Conceptual New Building Prototype
Newtown, Connecticut



Field Perspective
Sandy Hook School
Conceptual New Building Prototype
Newtown, Connecticut



Gymnasium Perspective

Sandy Hook School
Conceptual New Building Prototype
Newtown, Connecticut

NOTES:



MEMORANDUM

DATE: April 12, 2013
TO: Sandy Hook School Advisory Committee
PREPARED BY: BL Companies
PROJECT: New Sandy Hook School Site
SUBJECT: Site Evaluation Narrative – Site 1A – 12 Dickinson Drive
Sandy Hook New Building, Crestwood Drive Full Access

Highlights of the proposed new prototype site plan are as follows:

- This site is in the Sandy Hook School District.
- School entrance at the southwest side of the new building with a FFE = 270.0±
- Primary school access drive (entrance/exit) located at Crestwood Drive. Crestwood Drive will be modified to become a 28' wide 2-lane/2-way road. See traffic narrative for other proposed traffic improvements.
- Access drives to front of school will rise up to building FFE at a slope of ±3%. The proposed site layout results in approximately 183 parking spaces.
- Small portions of two abutting properties on the northwest side of school property will need to be acquired for grading and parking expansion purposes.
- Existing water and sanitary mains coming from Crestwood Drive will be modified as required. Power/telephone/CATV will be pulled in from existing 3-phase overhead power lines located on Dickinson Drive. A new gas main will be installed in Crestwood drive up to and into the school property.
- The existing Dickinson Drive will be used as an emergency drive only.
- The proposed bus pick-up lane is located along the west side of the building. The Pre-K pick-up area is proposed at the north side of the building and all student parent drop-off occurs at the front side of the school.
- The existing multipurpose/soccer play field will remain as will the existing baseball field; however, a new outdoor group play structure and basketball/play court is proposed.
- A new site drainage system will be installed along with a BMP oil/water separator chamber and stormwater basin. No wetlands are proposed so no DEEP and/or ACOE wetlands permit(s) required for this proposed site plan.
- A retaining wall is required along a small portion of the westerly property line.
- This site will require complete demolition of the existing Sandy Hook School.

NOTES:



**SANDY HOOK SCHOOL
TRAFFIC ANALYSIS NARRATIVE**

Newtown, Connecticut

April 12, 2013

1a. *New School on Existing School Site – 12 Dickinson Drive, Sandy Hook (Crestwood Drive for Entering Movements, Crestwood Drive for Exiting Movements)*

This is the location of the existing School. In this Alternative a new School building is constructed. In this Alternative all access to the School would be from Crestwood Drive from Washington Avenue.

A preliminary evaluation of maintaining this as the Sandy Hook Elementary School and providing all access to and from the School from Crestwood Drive would require significant roadway improvements to this roadway from Washington Avenue to the School access drive.

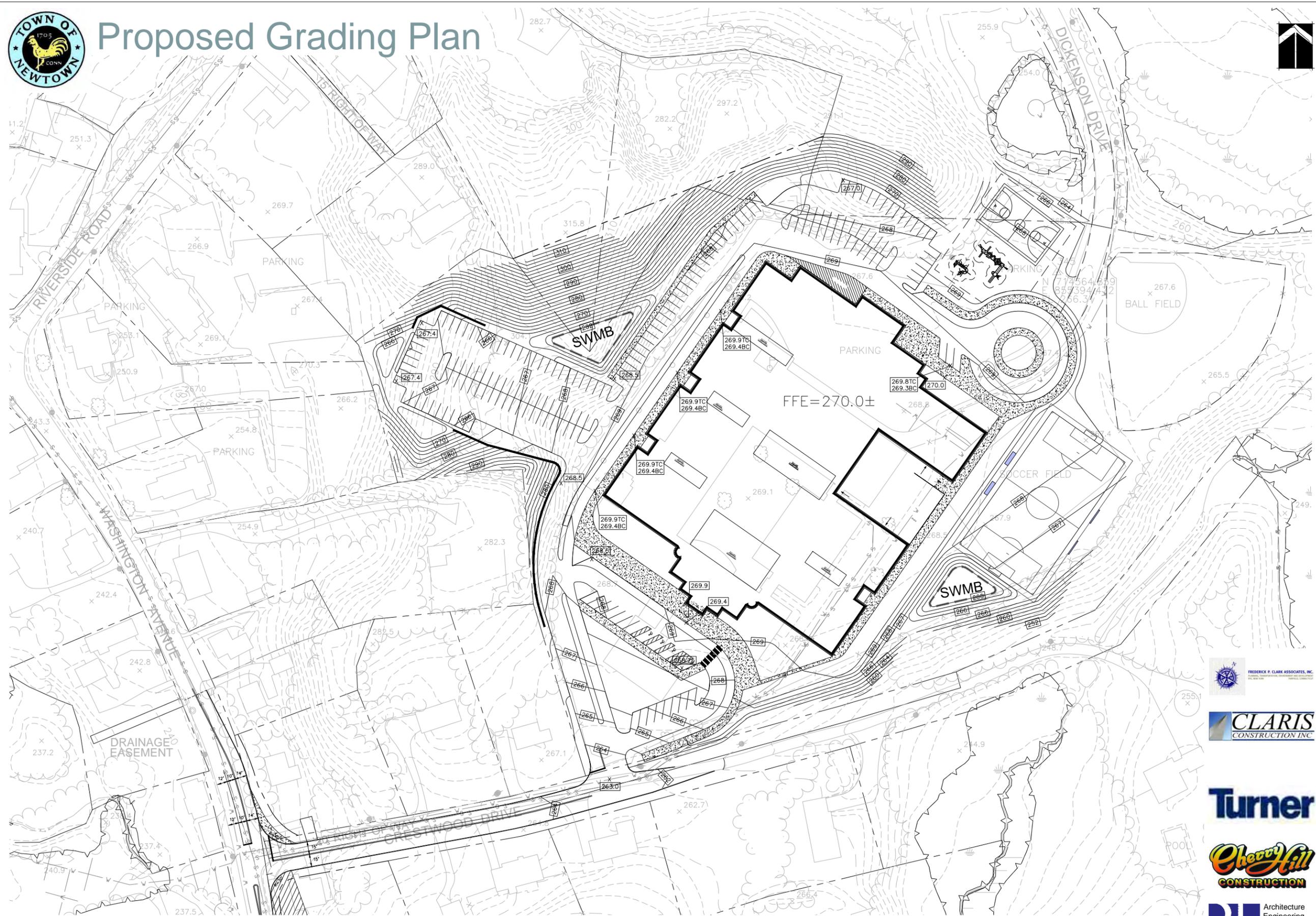
Crestwood Drive is a very narrow, private roadway, serving several existing homes. It has a narrow pavement width and generally one travel lane and would require upgrading and widening of the road to provide two travel lanes, drainage improvements and significant improvements at its intersection with Washington Avenue. The intersection of Crestwood Drive at Washington Avenue would also require significant modifications to the northeast corner to provide appropriate intersection sight distance for exiting movements. It would require the complete removal and regrading of the area in front of the existing residential home to maximize sight lines to the left (east) when exiting Crestwood Drive. This may not be feasible. Furthermore, significant modifications would be needed to accommodate School buses and passenger vehicles on Crestwood Drive.

Any modifications to Crestwood Drive and Washington Avenue do not need the Connecticut Department of Transportation (ConnDOT) approval since Washington Avenue is a Town road and Crestwood Drive is a private road. Also, an approval from the Office of the State Traffic Administration (OSTA) is not needed since the building size and number of parking spaces will be under the criteria to consider this School a Major Generator.

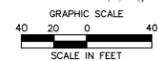
**Frederick P. Clark Associates, Inc.
April 12, 2013**



Proposed Grading Plan



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Sandy Hook School • Site No. 1a (New Proto Type) - 12 Dickinson Drive, Newtown, Connecticut • April 12, 2013



NOTES:



MEMORANDUM

DATE: April 12, 2013
TO: Sandy Hook School Advisory Committee
PREPARED BY: BL Companies
PROJECT: New Sandy Hook School Site
SUBJECT: Site Evaluation Narrative – Site 1B – 12 Dickinson Drive
Sandy Hook New Building
Crestwood Drive (Entrance) & Dickinson Drive (Exit)

Highlights of the proposed new prototype site plan are as follows:

- This site is within the Sandy Hook School District.
- School entrance at the southwest side of the new building with a FFE = 270.0±
- New school access drive (entrance) will be located at Crestwood Drive. Crestwood Drive will be modified to handle bus entry traffic. See traffic narrative for other offsite improvements.
- The existing Dickinson Drive will be modified to function as an exit drive only.
- Access drives to front of school will rise up to building FFE at a slope of ±3%. The proposed site layout results in approximately 183 parking spaces.
- Small portions of two abutting properties on the northwest side of school property will need to be acquired for grading and parking expansion purposes.
- Existing water and sanitary mains coming from Crestwood Drive will be modified as required. Power/telephone/CATV will be pulled in from existing 3-phase overhead power lines located on Dickinson Drive. A new gas main will be installed in Crestwood drive up to and into the school property.
- The proposed bus pick-up lane is located along the west side of the building. The Pre-K pick-up area is proposed at the north side of the building and all student parent drop-off occurs at the front side of the school.
- The existing multipurpose/soccer play field will remain as will the existing baseball field; however, a new outdoor group play structure and basketball/play court is proposed.
- A new site drainage system will be installed along with a BMP oil/water separator chamber and stormwater basin. No wetlands are proposed so no DEEP and/or ACOE wetlands permit(s) required for this proposed site plan.
- A retaining wall is required along a small portion of the westerly property line.
- This site will require complete demolition of the existing Sandy Hook School.

NOTES:



**SANDY HOOK SCHOOL
TRAFFIC ANALYSIS NARRATIVE**

Newtown, Connecticut

April 12, 2013

Site #1b - New School on Existing School Site – 12 Dickinson Drive, Sandy Hook
(Crestwood Drive for Entering Movements, Dickinson Drive for Exiting
Movements)

With this Alternative a new building would be constructed and all vehicular access for both School buses, staff and parents would be along Crestwood Drive from Washington Avenue. All exiting movements from the School would continue to use Dickinson Drive to Riverside Road.

Modifications to Crestwood Drive would be necessary to accommodate the School buses and passenger vehicles. Furthermore, as soon as the roadway is modified it would likely be the obligation of the Town to improve the road for exiting movements from the residential neighborhood and to improve the intersection sight distance necessary to accommodate these vehicles at its intersection with Washington Avenue.

To do this, two travel lanes should be provided, with drainage improvements to the roadway. It would include significant improvements at the intersection of Washington Avenue. The improvements would include modifications to the northeast corner of the intersection to improve the intersection sight distance. It may not meet the standards to accommodate School buses; however, it would still require the complete removal and regrading of the area in front of the existing residential home to maximize sight lines to the left (east) when exiting Crestwood Drive. This may not be feasible.

In this Alternative there would be no requirements for approval from the Connecticut Department of Transportation (ConnDOT) or the Office of the State Traffic Administration (OSTA).

**Frederick P. Clark Associates, Inc.
April 12, 2013**



Proposed Site Plan



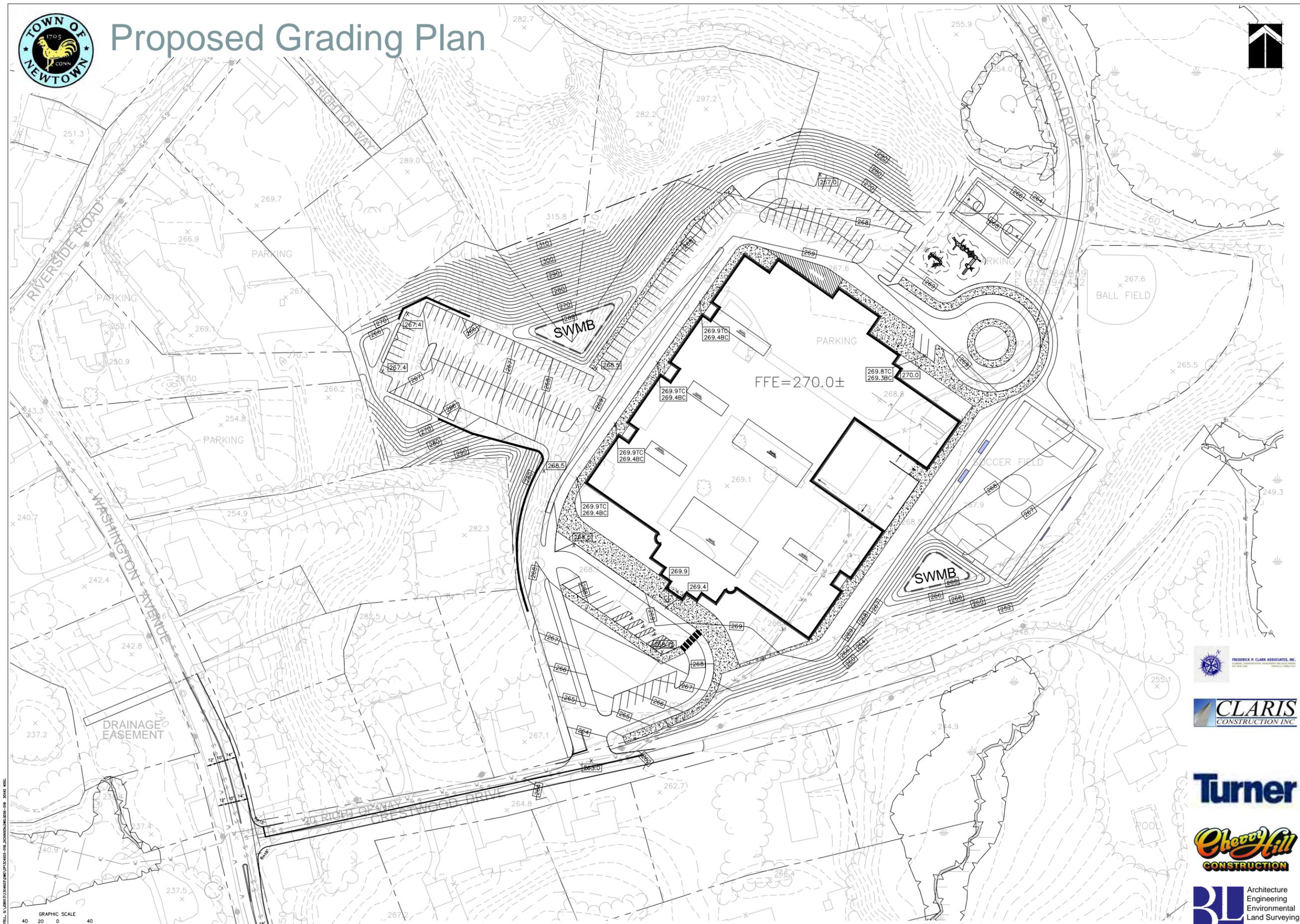
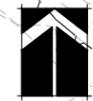
GRAPHIC SCALE
 60 30 0 60
 SCALE IN FEET

Sandy Hook School • Site No. 1b(New Proto Type)- 12 Dickinson Drive, Newtown, Connecticut • April 12, 2013





Proposed Grading Plan



Sandy Hook School • Site No. 1b(New Proto Type)- 12 Dickinson Drive, Newtown, Connecticut • April 12, 2013

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NOTES:



MEMORANDUM

DATE: April 12, 2013
TO: Sandy Hook School Advisory Committee
PREPARED BY: BL Companies
PROJECT: New Sandy Hook School Site
SUBJECT: Site Evaluation Narrative – Site 2 – 7 & 9 Bennetts Bridge Road, Sandy Hook

Highlights of the proposed new prototype site plan are as follows (See traffic narrative for other proposed traffic improvements):

- This site is within the Sandy Hook School District.
- The new school is positioned with the front entrance to the south. The proposed FFE = 565.0±. As a reference, the grade of the existing Bennetts Bridge Road adjacent to the building is approximately 572.0±.
- The main entrance/exit drive to the proposed school is located at the southerly property limits opposite Osborne Hill Road. This drive will be used by the busses. A second full access drive is proposed 200' north of the main drive and will be used for student drop-off and faculty parking. Additionally, a third drive is located at the northerly property limits and this drive will also service parent drop-off as well as a Pre-K drop-off area.
- The main drive and second drive will have a driveway slope of approximately 5%. The proposed site layout results in approximately 162 parking spaces; however, a gravel ±70-car overflow parking area will be constructed at the lower level site area.
- Grading easements from abutting properties will be required along the north and south property limits.
- No public utilities are available for this site. A DEEP approved on-site community septic system will be needed. The pre-treatment facility will be located at the upper site level while the septic gray water dosing fields will be located at the lower level. The water system will require drilled wells. Water holding tanks and a fire flow booster pump is required. No natural gas is available. 3-phase electric power will need to be installed from Route 34 to our proposed school site.
- The existing barn and silo located on our site is proposed to remain. The barn can be used as a Board of Education maintenance facility.
- The site will require a large amount of fill material. It is suggested that the #10 Bennetts Bridge farm parcel across the street be purchased and excavated as a fill source.
- Retaining walls are required along the north and west sides of the building. The walls on the west side are supporting the proposed play field, basketball/play court, and the proposed group play structure. Additionally, retaining walls are proposed along the proposed gravel access drive to the lower level parking/septic field/stormwater management area. This area will be used as a fill source and made level. In the future, two soccer fields can be installed.
- A new drainage system will be installed along with a BMP oil/water separator chamber. The stormwater will be conveyed to the lower level and piped to an open stormwater detention basin. A local wetlands permit will be required for a small wetlands fill and stream crossing at the south property line in the lower level access drive. No DEEP or ACOE wetlands permits are required.
- This site will require demolition of a farmhouse and other small miscellaneous structures.

NOTES:



**SANDY HOOK SCHOOL
TRAFFIC ANALYSIS NARRATIVE**

Newtown, Connecticut

April 12, 2013

Site No. 2 - #7/#9 Bennetts Bridge Road, Sandy Hook

This site is located along the westerly side of Bennetts Bridge Road and north of the Osborne Hill Road intersection. It has excellent frontage and sight lines along Bennetts Bridge Road and would provide appropriate access locations for both parents, School buses and staff. Although Bennetts Bridge Road may need to be upgraded between the site's frontage and State Route 34, it would be appropriate to consider access and maintain the two-lane road and rural characteristics of this roadway.

At the intersection of State Route 34, which has the flashing yellow/red signal controlling both Bennetts Bridge Road and Grays Plain Road, consideration for an upgraded and fully actuated for a full-time traffic signal would need to be considered. This would be necessary for general safety and operational characteristics of this intersection, which has limited sight lines due to the alignment of State Route 34 at this location.

It is important to note that with other sites in the general vicinity of this site, many of the students and School buses would arrive and depart to the north and not access or cross State Route 34 to the south.

This site would likely require ConnDOT and OSTA review and need for an Administrative Decision or full Certificate, depending on the level of mitigation, if any, of the intersection at State Route 34.

**Frederick P. Clark Associates, Inc.
April 12, 2013**



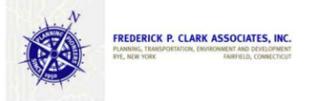
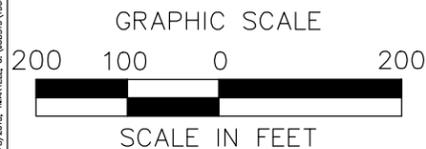
Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE

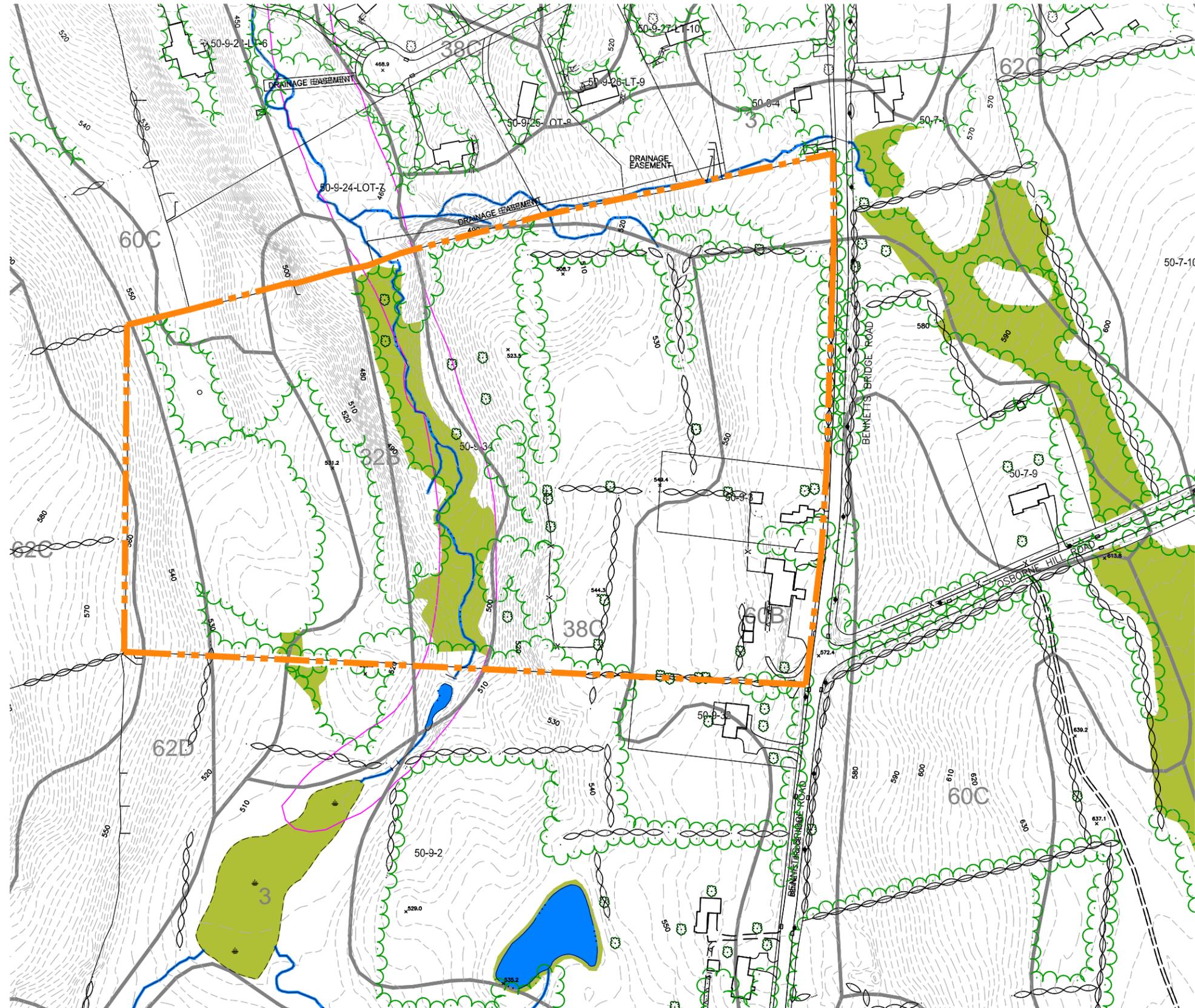
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Sandy Hook School • Site No. 2 - 7&9 Bennett's Bridge Road, Newtown, Connecticut • April 12, 2013

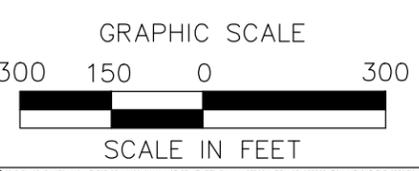


Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  73C SOILS LIMIT AND TYPE
-  TREELINE



Sandy Hook School • Site No. 2 - 7&9 Bennett's Bridge Road, Newtown, Connecticut • April 12, 2013

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Proposed Site Plan

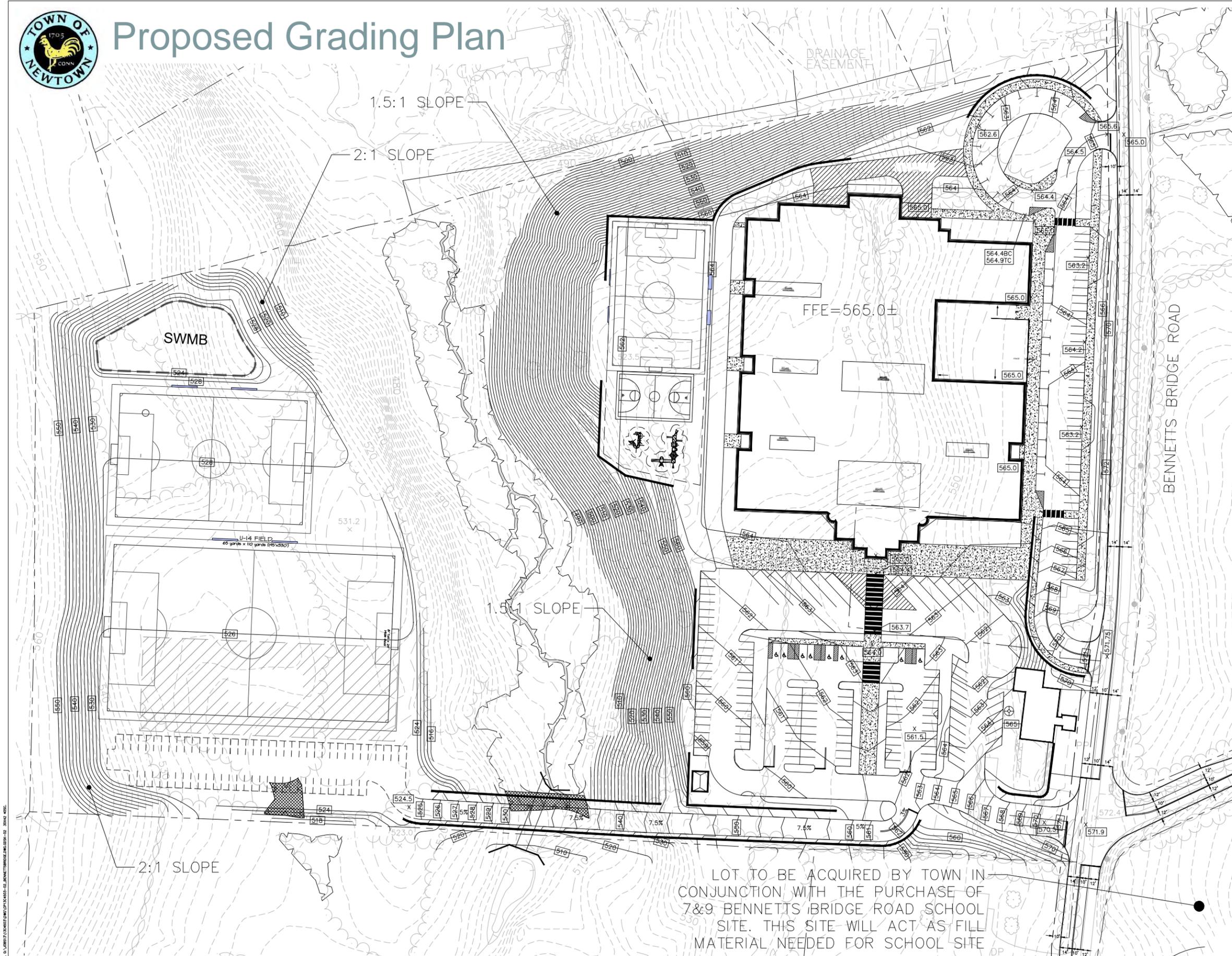


Sandy Hook School • Site No. 2 - 7 & 9 Bennetts Bridge Road, Newtown, Connecticut • April 12, 2013

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Proposed Grading Plan



LOT TO BE ACQUIRED BY TOWN IN CONJUNCTION WITH THE PURCHASE OF 7&9 BENNETTS BRIDGE ROAD SCHOOL SITE. THIS SITE WILL ACT AS FILL MATERIAL NEEDED FOR SCHOOL SITE

Sandy Hook School • Site No. 2 - 7 & 9 Bennetts Bridge Road, Newtown, Connecticut • April 12, 2013



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NOTES:



MEMORANDUM

DATE: April 12, 2013
TO: Sandy Hook School Advisory Committee
PREPARED BY: BL Companies
PROJECT: New Sandy Hook School Site
SUBJECT: Site Evaluation Narrative – Site 3 – 21 Mile Hill Road
(Fairfield Hills Campus), Newtown

Highlights of the proposed new prototype site plan are as follows (see traffic narrative for other proposed traffic improvements):

- This site is not within the Sandy Hook School District.
- The new school is positioned with the front facing south/Mile Hill South Road. The school is parallel to Keating Drive and the school FFE = 449.0±, which is approximately 3 feet above the existing grade of the adjacent roads.
- Two full access drives are proposed on Mile Hill South Road at the front of the school. Also, full access drive is located on Keating Drive at the northwest corner of the proposed school.
- Bus drop-off/stacking has been provided along the west side of the school. Pre-K drop-off is located at the north (back) side of the school. Also, parent student drop-off is located at the front of the school.
- All driveways do not exceed a pavement slope of ±3%. Approximately 195 parking spaces are proposed.
- Existing water, sewer, and natural gas utility mains are all present at this site. Also, a 3-phase power/telephone/CATV cables are available on the Mile Hill South Road utility pole line.
- This site school development will require the environmental abatement and demolition of an existing 3 to 4 story masonry building. The building has a ±45,000 SF footprint. The basement will need to be filled in. The existing building's first floor elevation will be set to achieve a close to balanced site.
- Only a small retaining wall will be required at the back Pre-K drop-off parking area.
- The proposed group play area, soccer/play field, and basketball/play court will all be constructed east of the building adjacent to the existing baseball fields.
- A new drainage system will be installed along with a BMP oil/water separator chamber. The stormwater will be conveyed to a proposed stormwater detention basin as well as existing drainage located in Mile Hill South Road. No wetlands are affected and thus, no DEEP or ACOE wetlands permits are needed for this site.

NOTES:



SANDY HOOK SCHOOL
TRAFFIC ANALYSIS NARRATIVE
Newtown, Connecticut
April 12, 2013

Site #3 - 21 Mile Hill Road South, Newtown

This site is located on the Fairfield Hills Campus at the intersection of Mile Hill Road South and Keating Farms Avenue. Access to the site is excellent from both Keating Farms Avenue and Mile Hill Road South. One negative is the intersection of Mile Hill Road South at Wasserman Way due to limited sight lines at this location. Therefore, a majority, if not all, of the School traffic would use Keating Farms Avenue to access Wasserman Way at the signalized intersection, which is directly opposite the Reed School. This location, as well as other locations, would need significant upgrades for security to separate the general public from students and staff. However, access can be accommodated along both roads. A new Certificate will be needed for Fairfield Hills Campus.

Frederick P. Clark Associates, Inc.
April 12, 2013

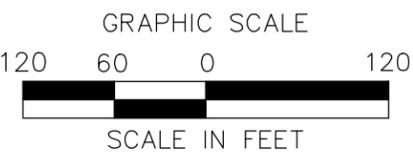


Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE



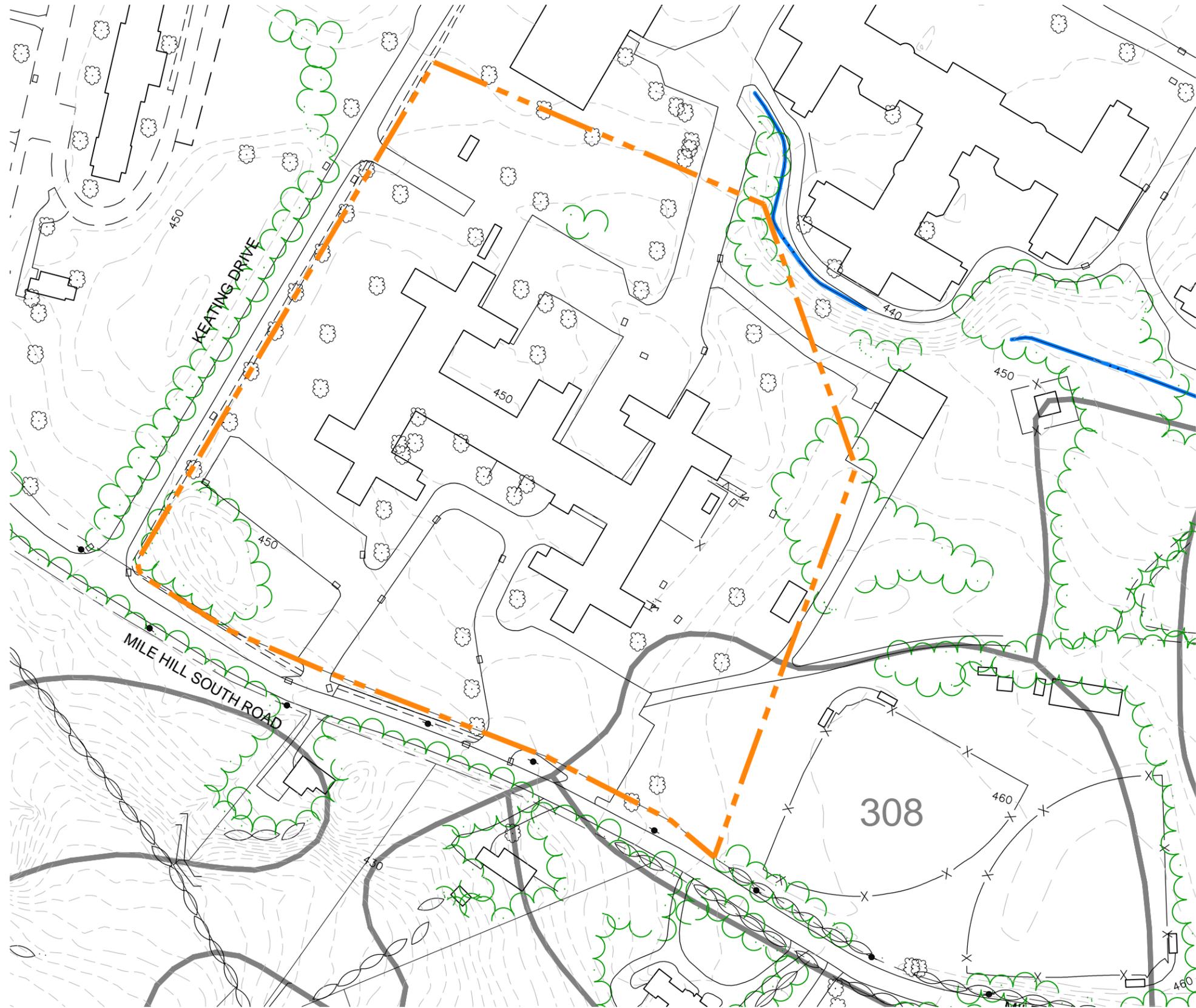
Sandy Hook School • Site No. 3 - 21 Mile Hill Road, Newtown, Connecticut • April 12, 2013

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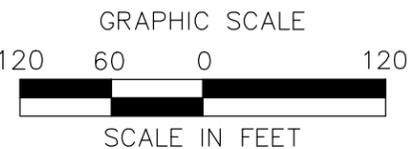
Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  SOILS LIMIT AND TYPE
-  TREELINE

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Sandy Hook School • Site No. 3 - 21 Mile Hill Road , Newtown, Connecticut • April 12, 2013



Proposed Site Plan

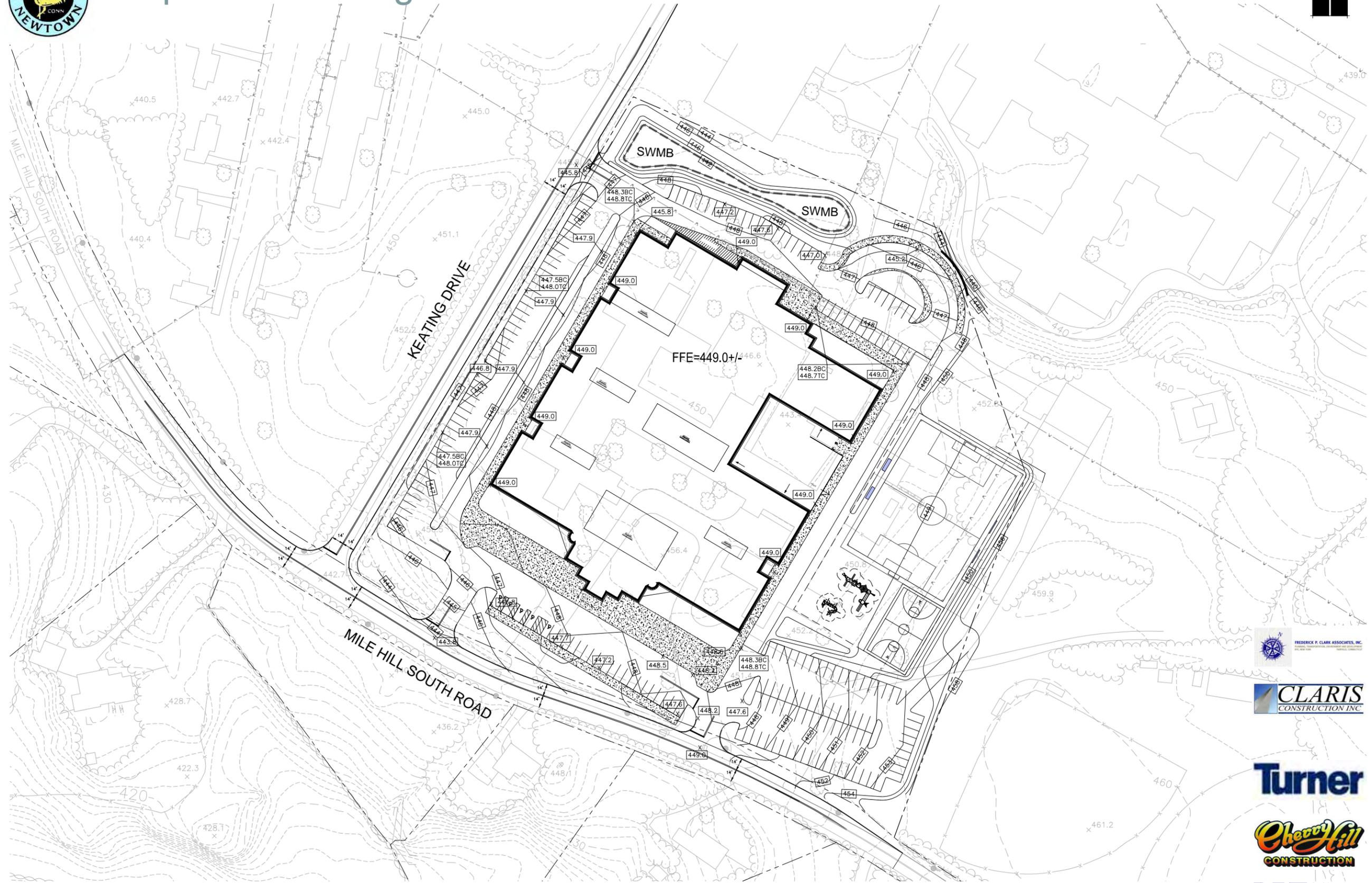


Sandy Hook School • Site No. 3 - 21 Mile Hill Rd. South, Newtown, Connecticut • April 12, 2013

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Proposed Grading Plan



Sandy Hook School • Site No. 3 - 21 Mile Hill Rd. South, Newtown, Connecticut • April 12, 2013

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NOTES:



MEMORANDUM

DATE: April 12, 2013
TO: Sandy Hook School Advisory Committee
PREPARED BY: BL Companies
PROJECT: New Sandy Hook School Site
SUBJECT: Site Evaluation Narrative – Site 4 – Commerce Road
(Proposed Industrial Park Site), Newtown

Highlights of the proposed new prototype site plan are as follows (see traffic narrative for other proposed traffic improvements):

- This site is not within the Sandy Hook School District and is the Town's designated industrial park development parcel.
- The new school is positioned with the front side facing to the west. The school is positioned parallel to the south property line. The school FFE = 367.0±. The school's first floor elevation will be approximately 13 feet below the grade of the adjacent railroad tracks to the west.
- Access to the site is from Commerce Road. The proposed access road will require wetlands crossings. The proposed wetlands crossings trigger DEEP and ACOE approvals. Submission for access road wetlands impact approval has been made to DEEP and ACOE.
- Bus drop-off/stacking has been provided along the west (front) side of the proposed school. The Pre-K drop-off and student parent drop-off/parking areas are located at the south side of the school.
- The proposed driveway slope from the access drive down toward the school front door is approximately 2%. Approximately 145 parking spaces are proposed in the parking area adjacent to the school. A gravel overflow parking area is proposed north of the school parcel. This area can accommodate over 125 parking spaces.
- Existing water, sewer, and natural gas utility mains are all present at this site. Also, a 3-phase power/telephone/CATV cables are available on the Commerce Road pole line. New overhead wire and pole line will be installed along the new access drive.
- This site will require a large amount of fill material. Also, large retaining walls are needed along the southerly property line as well as the south side of the proposed school along the emergency access drive. An additional 0.25 acres of wetlands will be filled in the school footprint area. This will also trigger DEEP and ACOE permits.
- The proposed group play area, soccer/play field, and basketball/play court will be constructed in the vicinity of the southeast corner of the proposed school. These play area amenities will be supported by retaining walls.
- A new drainage system will be installed along with a BMP oil/water separator chamber. The stormwater will be conveyed to several small stormwater basins spread out around the site. The systems will discharge into adjacent wetlands.
- A grading easement will be required along the southern property line adjacent to the existing dirt road (named Watertown Lane).
- No demolition of structures is required for this property.

NOTES:



**SANDY HOOK SCHOOL
TRAFFIC ANALYSIS NARRATIVE**

Newtown, Connecticut

April 12, 2013

Site #4 - Commerce Road, Sandy Hook

The potential site is located on the northerly side at the terminus of Commerce Road. Access to Commerce Road is via the signalized intersection at Church Hill Road. Church Hill Road is designated U.S. Route 6 and any modifications to this intersection for the School would require ConnDOT and OSTA review and approval.

ConnDOT and the Town have tentative plans to improve the intersection of Commerce Road to accommodate the Edmond Road intersection. These improvements could take place in the next several years. Long-term, ConnDOT has plans to improve Church Hill Road in the vicinity of Interchange 84, which may impact and include Church Hill Road in the vicinity of the Commerce Road intersection.

This location for access for parents and School buses is feasible from a traffic perspective. However, it is important to note that Church Hill Road carries a high volume of traffic, with congestion

**Frederick P. Clark Associates, Inc.
April 12, 2013**



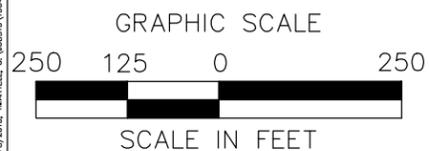
Existing Conditions - Topography



LEGEND:

- SUBJECT PROPERTY
- APPROX. WETLANDS LIMITS
- WATERCOURSE/WET LIMITS
- FEMA FLOODZONE
- 73C SOILS LIMIT AND TYPE
- TREELINE

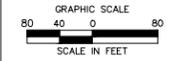
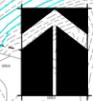
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Sandy Hook School • Site No. 4 - Commerce Road , Newtown, Connecticut • April 12, 2013



Proposed Site Plan



Sandy Hook School • Site No. 4 - Commerce Road, Newtown, Connecticut • April 12, 2013

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Proposed Grading Plan



DATE: 04/12/13
DRAWN BY: J. LARSEN
CHECKED BY: J. LARSEN
SCALE: 1"=40'
GRAPHIC SCALE
50 25 0 50
SCALE IN FEET
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Sandy Hook School • Site No. 4 - Commerce Road, Newtown, Connecticut • April 12, 2013



NOTES:



MEMORANDUM

DATE: April 12, 2013
TO: Sandy Hook School Advisory Committee
PREPARED BY: BL Companies
PROJECT: New Sandy Hook School Site
SUBJECT: Site Evaluation Narrative – Site 5 – 28 Riverside Road, Sandy Hook

Highlights of the proposed new prototype site plan are as follows (see traffic narrative for other proposed traffic improvements):

- This site is located within the Sandy Hook School District and is located approximately 400' east of Dickinson Drive (existing Sandy Hook School drive).
- The new school requires the purchase of two parcels and the use of firehouse property land for playing fields and grading. In addition, grading, placement of a stormwater basin and lower playing fields will be located on town land to the south.
- The new school is positioned with the front facing southwest. The school's proposed FFE = 283.0±.
- Two full access drives are located off of Riverside Road. In addition, an exit only service drive is proposed at the northwest corner of the proposed school parcel.
- Bus drop-off/stacking is proposed along the west side of the school. The Pre-K and parent student drop-off areas are located at the south side of the building.
- All driveways do not exceed a pavement slope of ±3%. 152 parking spaces are proposed. The firehouse parking lot can be used for overflow event parking.
- Existing water, sewer, and natural gas utility mains are all present within the Riverside Road frontage. Also, 3-phase power/telephone/CATV cables are available on the Riverside Road pole line.
- The site school development will require the demolition of one house and a few smaller structures. Also, the soils below the existing ballfield will likely need to be removed and replaced with structural fill.
- This site will require a large amount of fill material. Also, large retaining walls are needed along the south and east sides of the school pad area, as well as at the proposed play areas. Approximately 2,500 SF of wetlands filling is required. This will require local wetlands approval; however, no DEEP or ACOE wetlands permits are required.
- The proposed group play area, soccer/play field, and basketball play court will be constructed on the south side of the proposed school.
- A new drainage system will be installed along with a BMP oil/water separator chamber. The stormwater will be conveyed to a stormwater basin adjacent to existing wetlands located to the east on adjacent town-owned land.

NOTES:



**SANDY HOOK SCHOOL
TRAFFIC ANALYSIS NARRATIVE**

Newtown, Connecticut

April 12, 2013

Site #5 - 28-32 Riverside Road, Sandy Hook

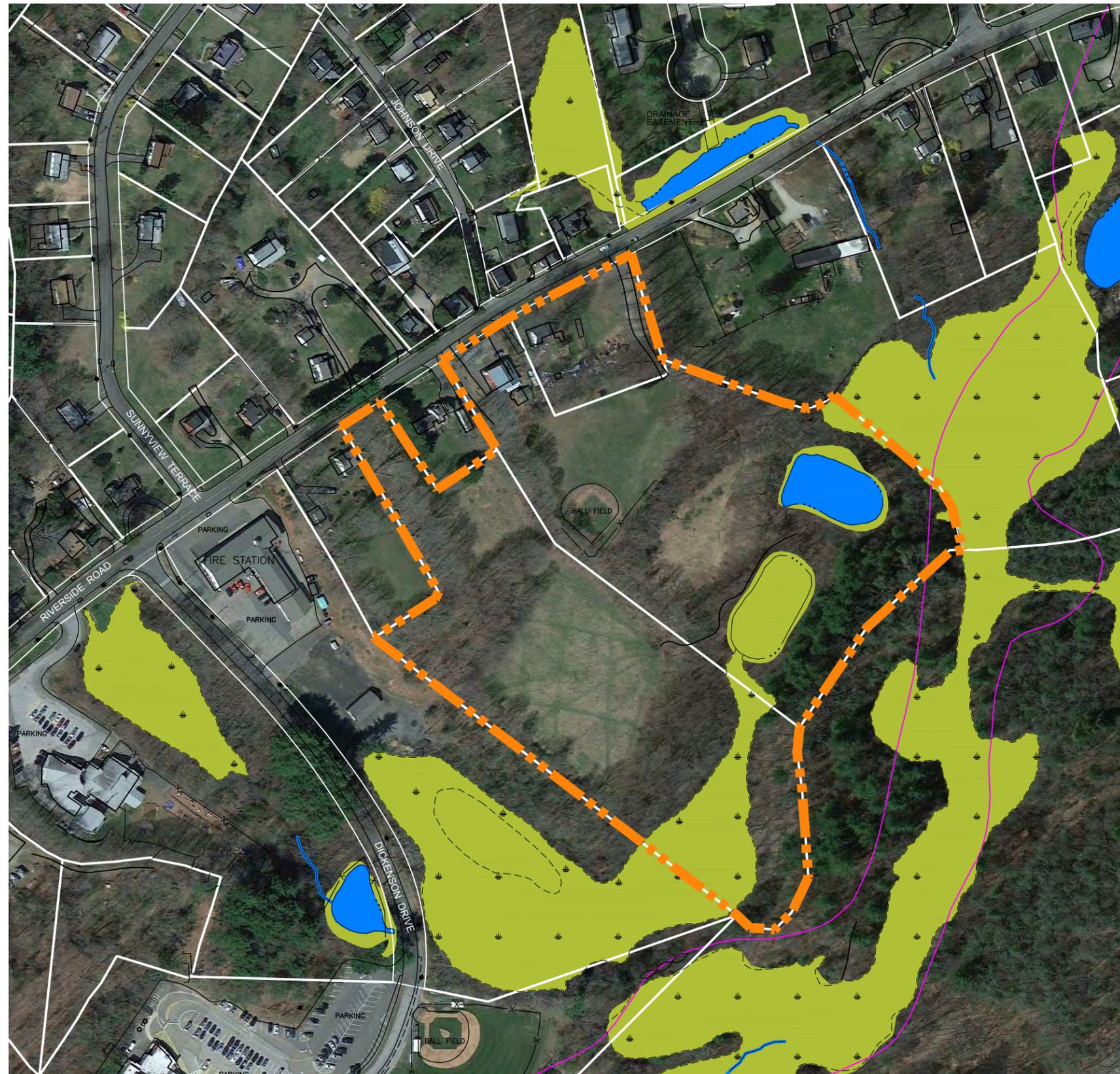
This site is located to the immediate north of the existing Elementary School. Access would be from Riverside Road. However, a field investigation indicates the significant vertical alignment issues, which would need to be addressed to provide appropriate intersection sight distance if an access drive was to be constructed to serve a new School at this location. Modifying Riverside Road would be a significant undertaking and have negative impacts to adjacent property do to the change in grades and elevations. For this sole reason and from only a traffic perspective this site should not be considered further.

Frederick P. Clark Associates, Inc.

April 12, 2013

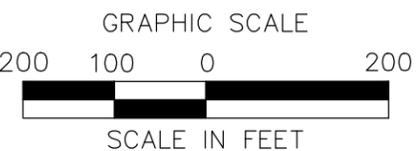


Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE



Sandy Hook School • Site No. 5 - 28 Riverside Road, Newtown, Connecticut • April 12, 2013

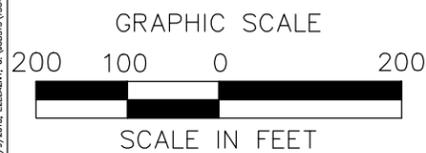


Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  SOILS LIMIT AND TYPE
-  TREELINE



Sandy Hook School • Site No. 5 - 28 Riverside Road , Newtown, Connecticut • April 12, 2013





Proposed Site Plan



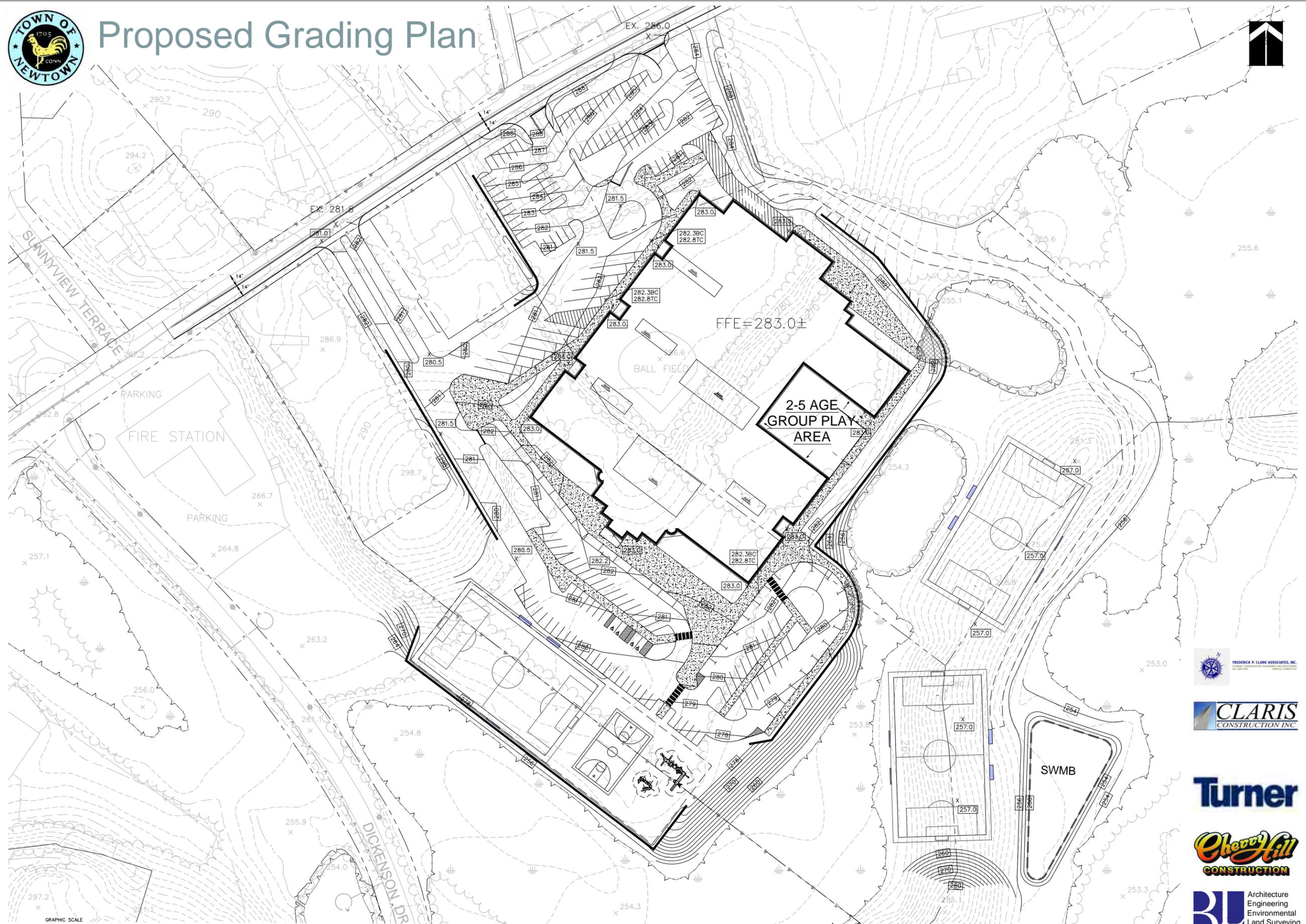
Sandy Hook School • Site No. 5 - 28 Riverside Road, Newtown, Connecticut • April 12, 2013



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Proposed Grading Plan



Sandy Hook School • Site No. 5 - 28 Riverside Road, Newtown, Connecticut • April 12, 2013

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NOTES:





TOWN OF NEWTOWN

Site # 6 : 203 Berkshire Rd, Sandy Hook

Summary description:

This site is an existing sixty-five (65) acre farm site with a few existing buildings. The site has two older farm buildings which are in varying stages of use. The site is currently zoned as residential 2 acre. The site is located along state road Route 34 and does not have any other municipal facilities within a mile of the site. The site is moderately level and has wetlands present on much of the site.

The site has limited access due to the line of sight along RTE 34. The main access driveway would need to be located in a designated wetlands. This would necessitate extensive filling of wetlands and require an Army Corps of Engineers permit. The site currently possesses only electrical out of the all the essential utilities.

School District: Sandy Hook

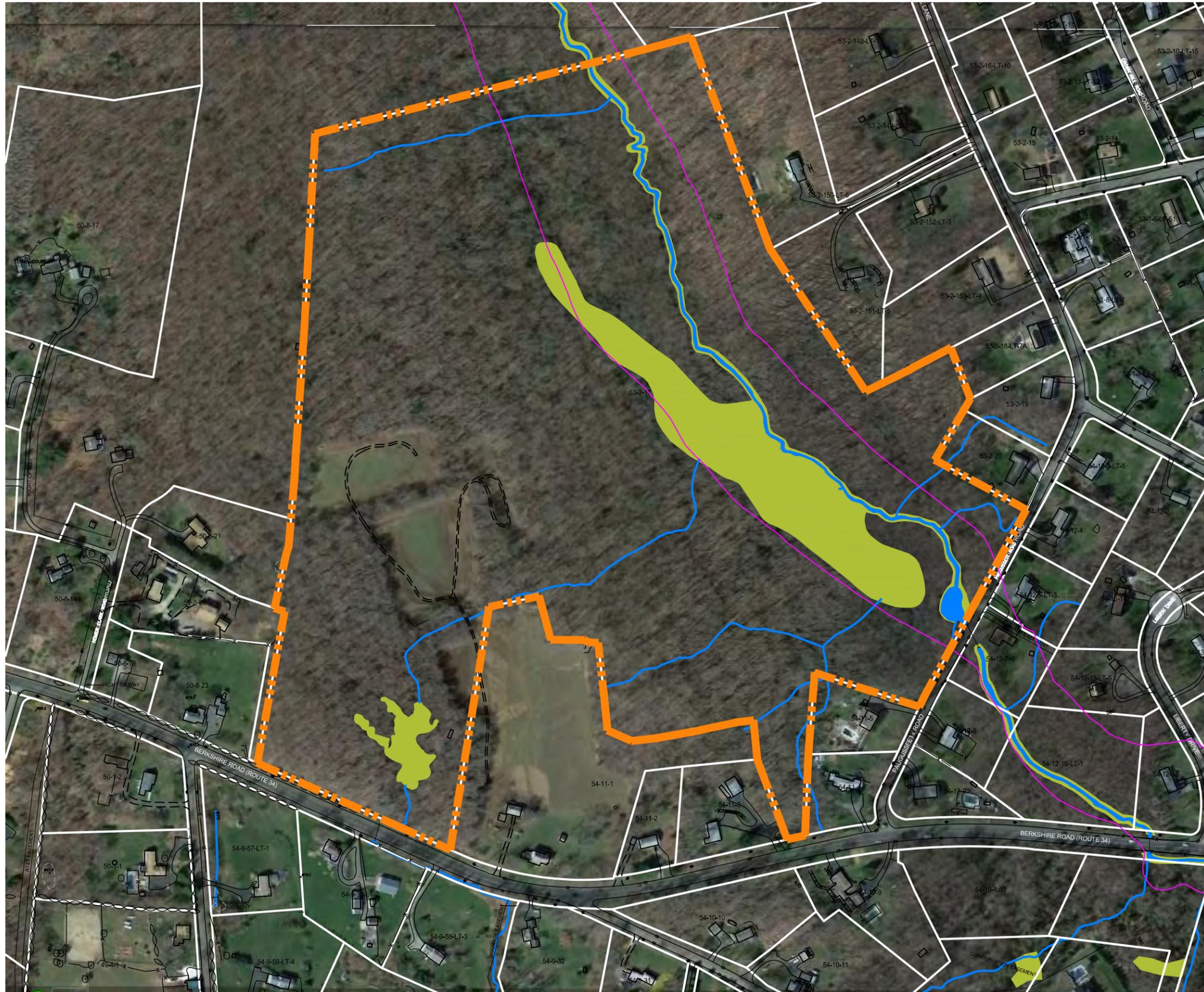
Land: Privately owned, would need to be purchased

Size: 65 Acres

Utilities: 3 Phase electrical only



Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE

GRAPHIC SCALE

300 150 0 300



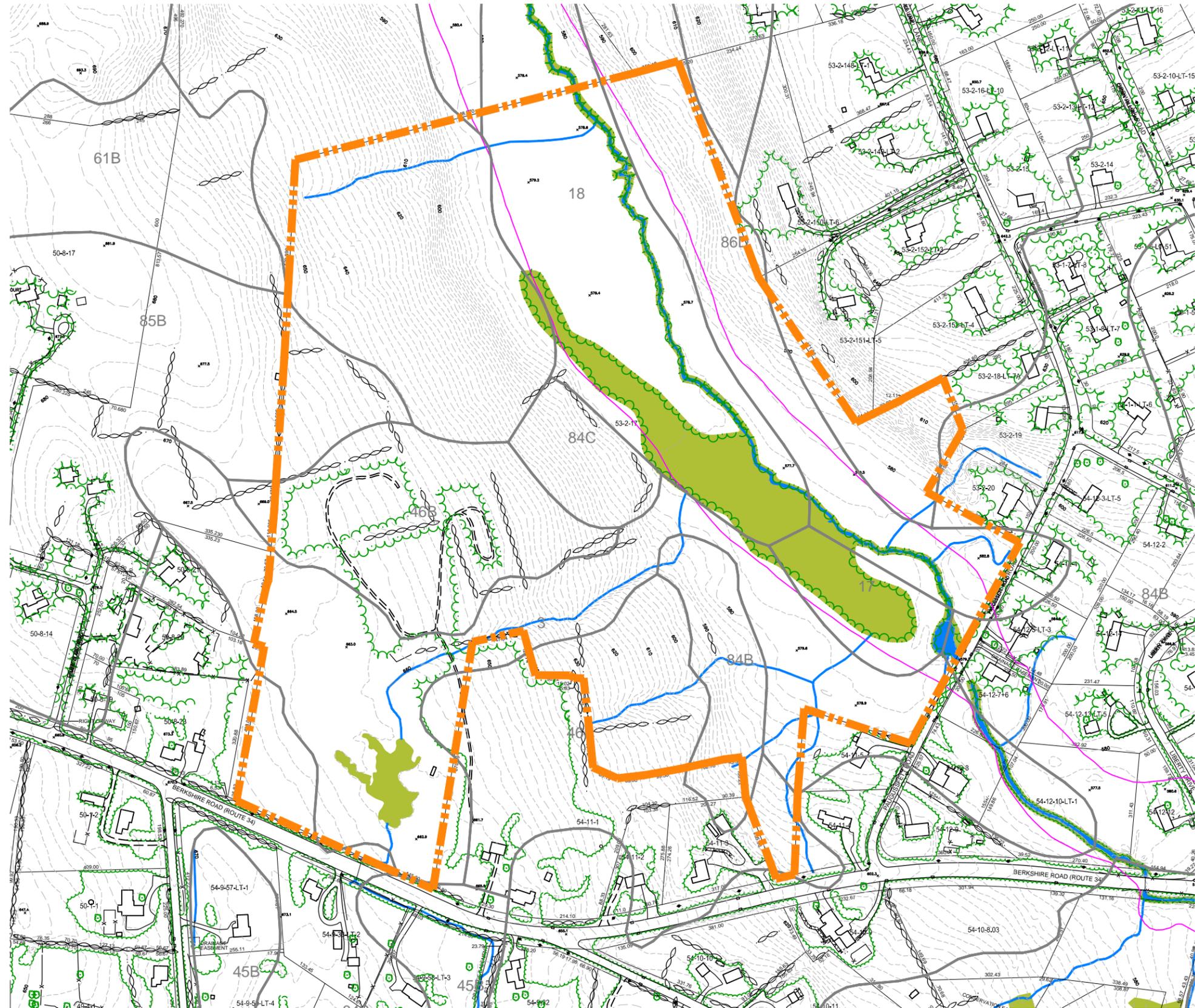
SCALE IN FEET

Sandy Hook School • Site No. 6 - 203 Berkshire Road, Newtown, Connecticut • April 12, 2013





Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  73C SOILS LIMIT AND TYPE
-  TREELINE

GRAPHIC SCALE

300 150 0 300



SCALE IN FEET

Sandy Hook School • Site No. 6 - 203 Berkshire Road, Newtown, Connecticut • April 12, 2013



NOTES:





TOWN OF NEWTOWN

Site # 7 : 11 Cherry Street, Sandy Hook

Summary description:

This site is a working farm site with a single family dwelling and a few existing farm buildings. The site is currently zoned as residential 2 acre. The site is the located along Cherry Street and does have other municipal facilities within a mile of the site. The site is moderately sloped and does not have wetlands present on much of the site.

The site has limited access due to the line of sight along Cherry Street. There is also potential for access from the western portion of the site. However, this access would require extensive grading. The site has inadequate acreage for the school with supporting parking and athletic areas. The site currently possesses none of the essential utilities.

School District: Sandy Hook

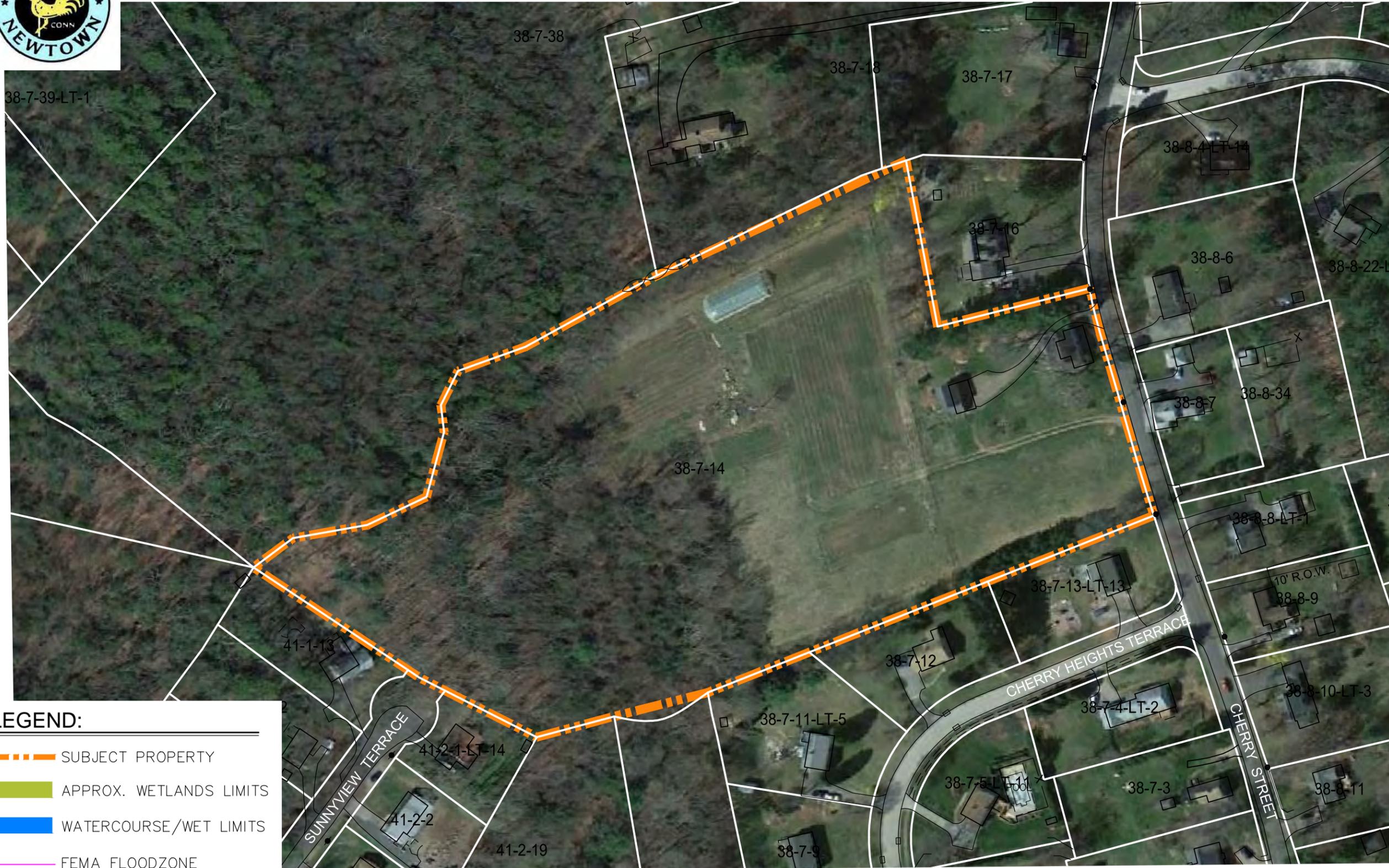
Land: Privately owned, would need to be purchased

Size: 9 Acres

Utilities: None

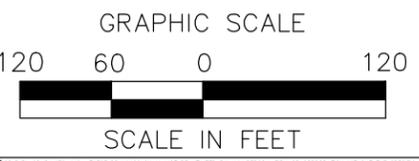


Existing Conditions - Aerial



LEGEND:

- SUBJECT PROPERTY
- APPROX. WETLANDS LIMITS
- WATERCOURSE/WET LIMITS
- FEMA FLOODZONE



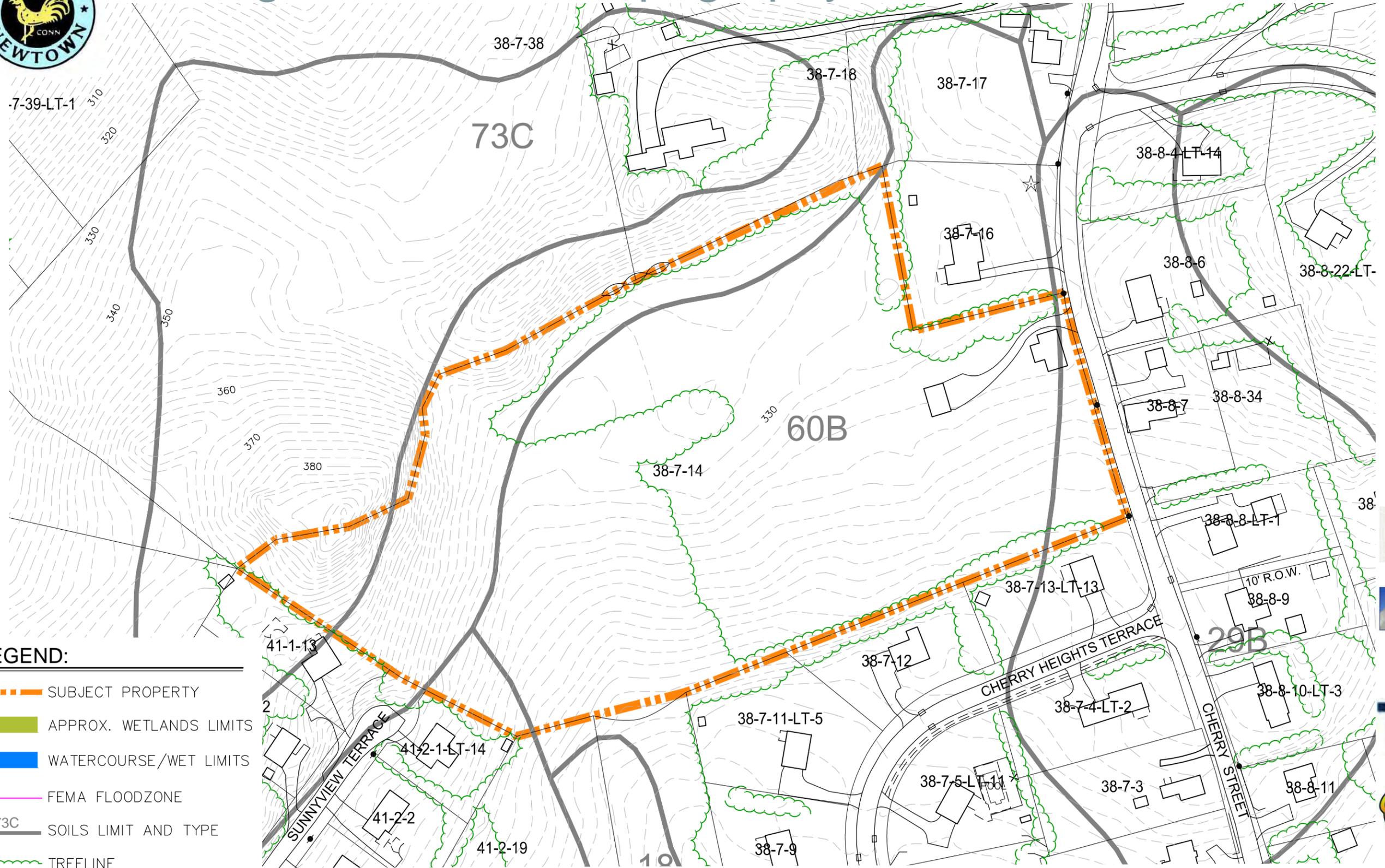
Sandy Hook School • Site No. 7 - 11 Cherry Street, Newtown, Connecticut • April 12, 2013

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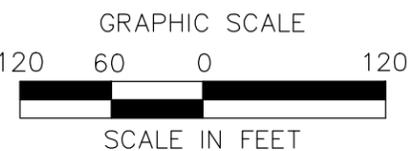
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Existing Conditions - Topography



- LEGEND:**
- SUBJECT PROPERTY
 - APPROX. WETLANDS LIMITS
 - WATERCOURSE/WET LIMITS
 - FEMA FLOODZONE
 - 73C SOILS LIMIT AND TYPE
 - TREELINE



Sandy Hook School • Site No. 7 - 11 Cherry Street, Newtown, Connecticut • April 12, 2013

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NOTES:





TOWN OF NEWTOWN

Site # 8 : 207 Walnut Tree Hill, Sandy Hook

Summary description:

This site is an athletic field facility owned by the Town of Newtown. The site is currently zoned as residential 1 acre. The site is located at the intersection of Walnut Tree Hill Road and Bridge End Farm Lane, and does not have other municipal facilities within a mile of the site. The site is level and does have wetlands present on much of the site.

The site has existing ball fields already and a small shed. A portion of the site is within a regulated floodplain and would possibly need special building techniques to meet the National Flood Insurance Program standards. The site has inadequate acreage for the school with its needed parking and athletic areas. The site currently possesses only electrical out of all the essential utilities.

School District: Hawley

Land: Owned by Town of Newtown

Size: 5 Acres

Utilities: 3 Phase electrical only

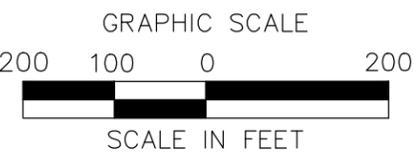


Existing Conditions - Aerial



LEGEND:

- SUBJECT PROPERTY
- APPROX. WETLANDS LIMITS
- WATERCOURSE/WET LIMITS
- FEMA FLOODZONE

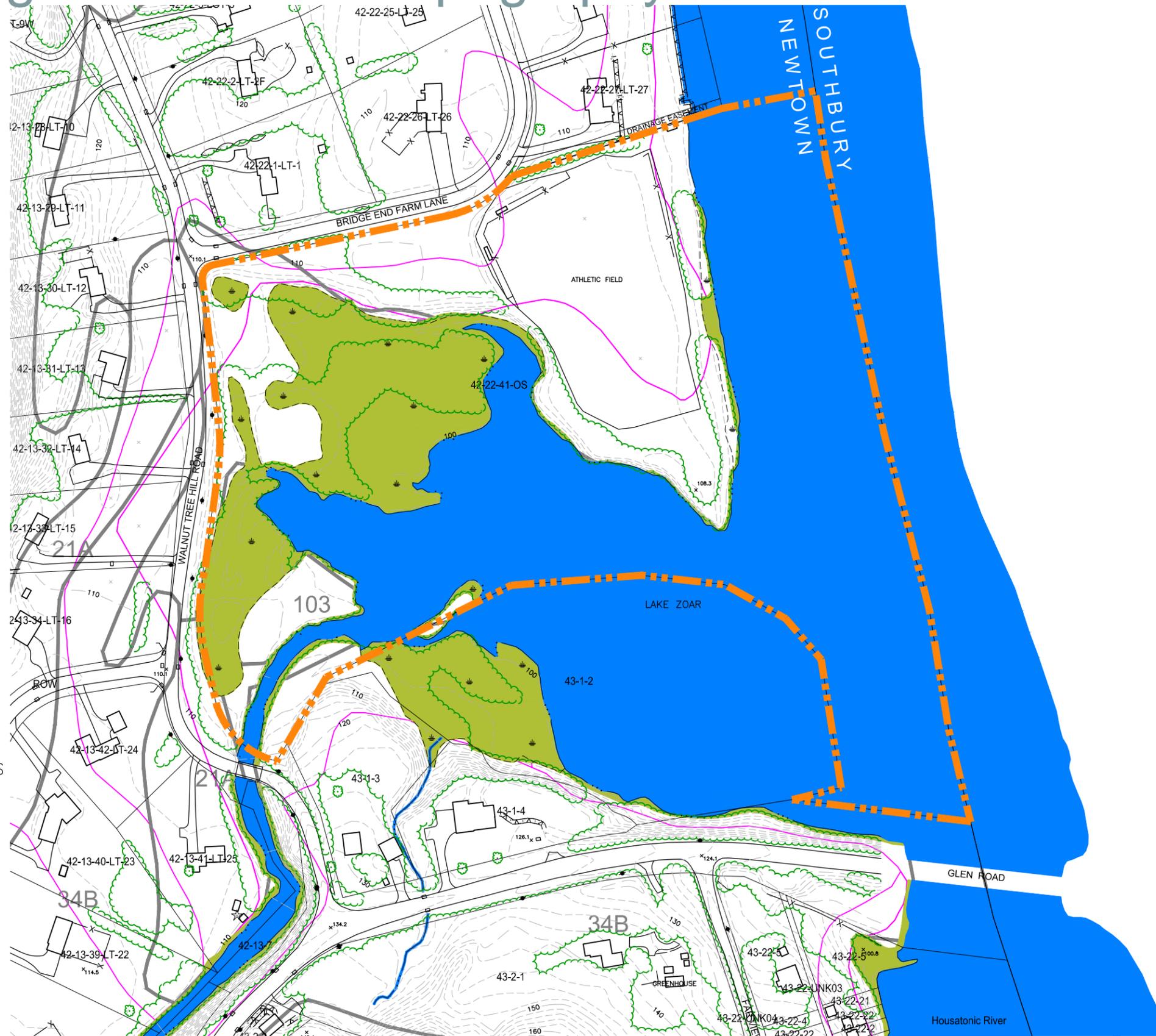


Sandy Hook School • Site No. 8 - 207 Walnut Tree Hill, Newtown, Connecticut • April 12, 2013



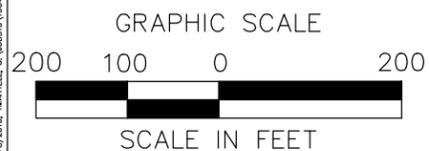


Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  73C SOILS LIMIT AND TYPE
-  TREELINE



Sandy Hook School • Site No. 8 - 207 Walnut Tree Hill, Newtown, Connecticut • April 12, 2013

NOTES:





TOWN OF NEWTOWN

Site # 9 : 285 Berkshire Rd, Sandy Hook

Summary description:

This site is a mature forested parcel consisting of 147 acres. The site is currently zoned as residential 2 acre. The site is located along state Route 34 and does not have any other municipal facilities within a mile of the site. The site is very rugged, severely sloped, and has wetlands present on much of the site.

The site has limited access due to the line of sight along RTE 34. The main access driveway would need to be located in either on a blind curve on RTE 34 or off of Stone Bridge Trail. Stone Bridge Trail is an unimproved road and would need to be completely rebuilt to support school access, but would still suffer from line of sight issues on RTE 34. The site currently possesses only electrical out of the all the essential utilities.

School District: Sandy Hook

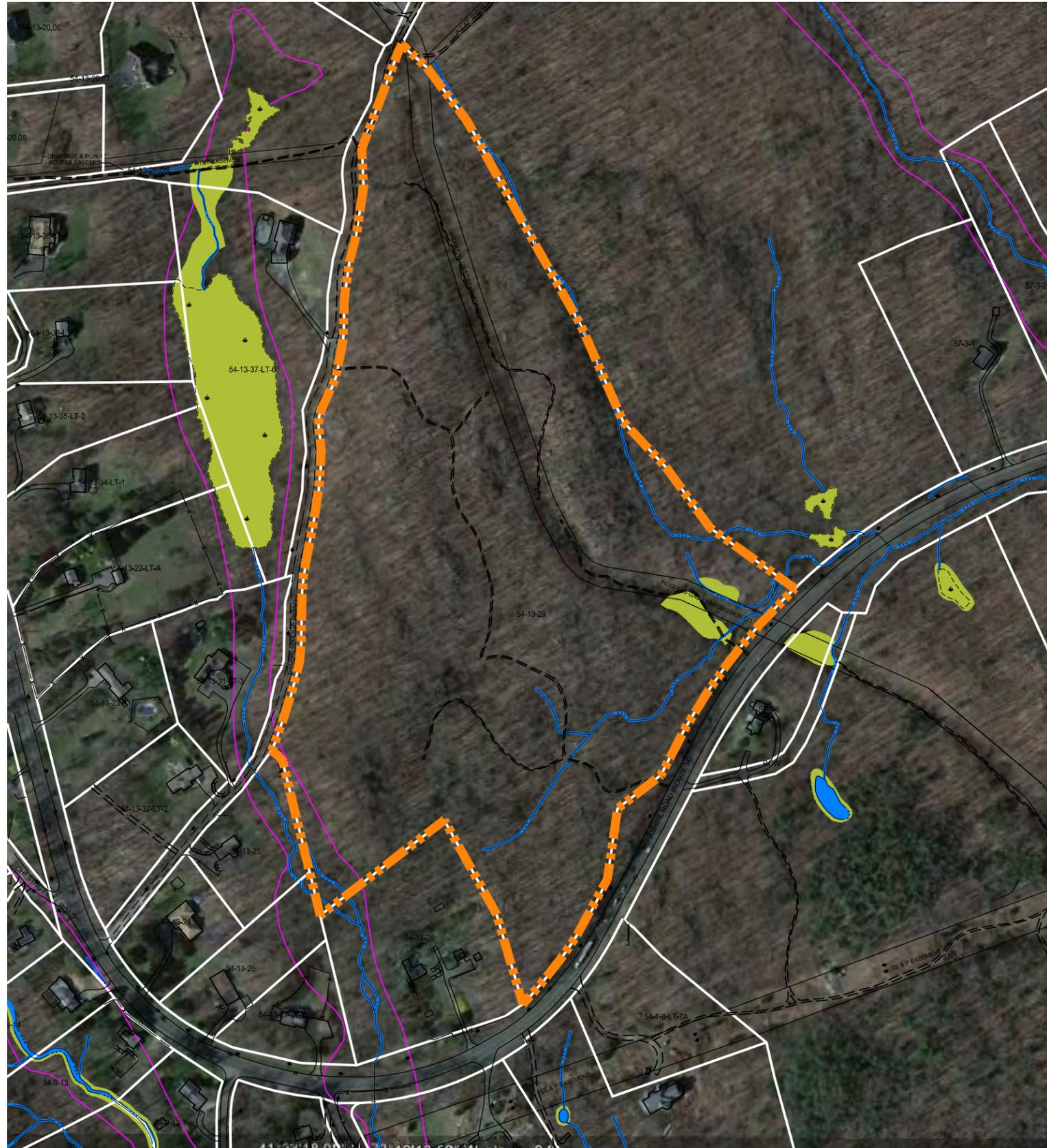
Land: Privately owned, would need to be purchased

Size: 147 Acres

Utilities: 3 Phase electrical only

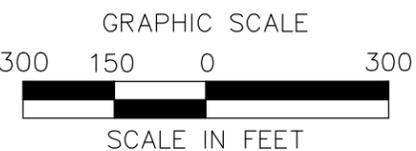


Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE

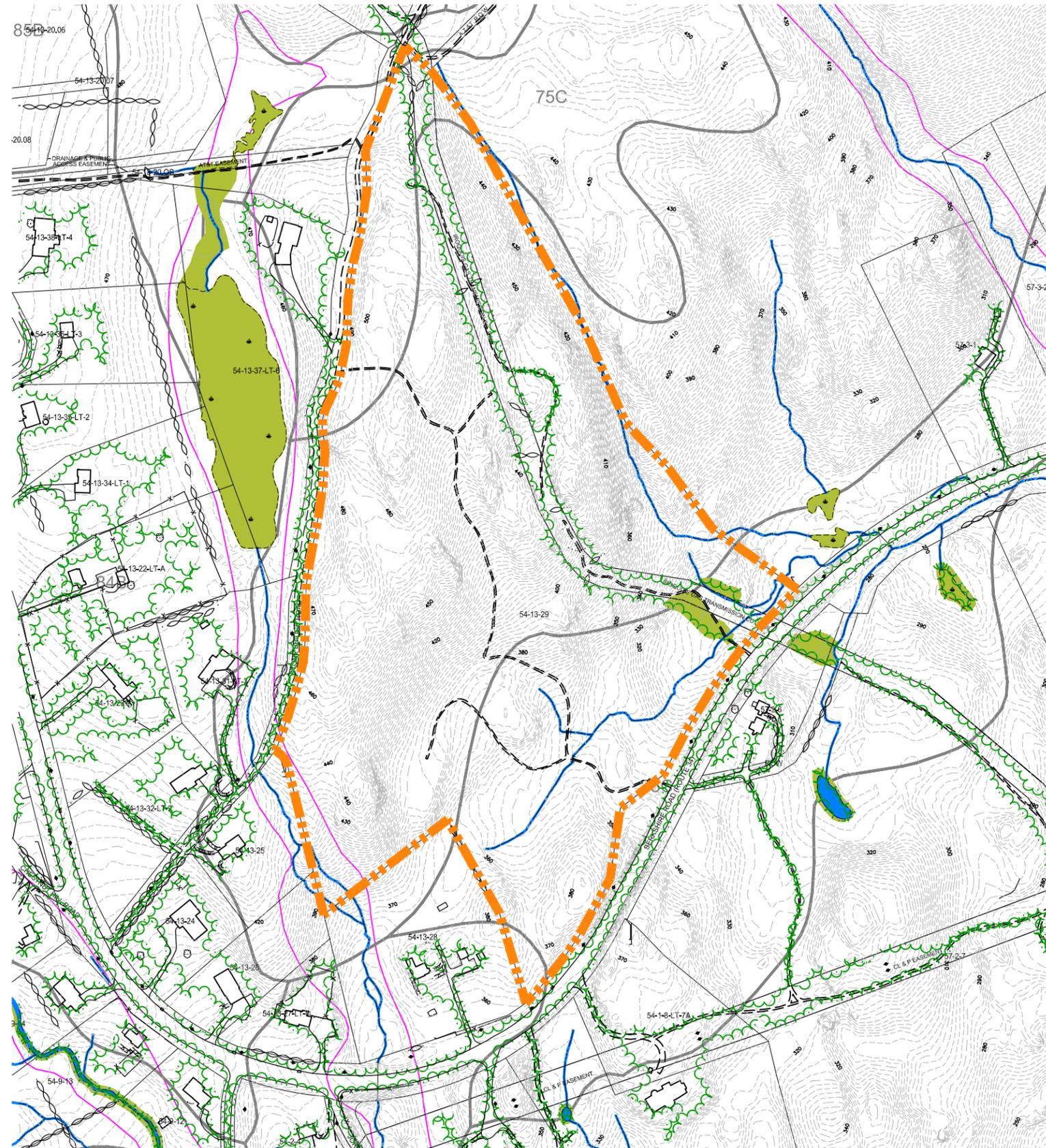


Sandy Hook School • Site No. 9 - 285 Berkshire Road, Newtown, Connecticut • April 12, 2013



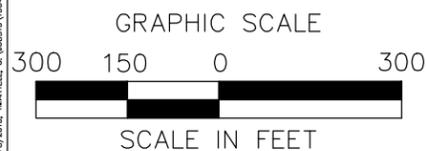


Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  73C SOILS LIMIT AND TYPE
-  TREELINE



Sandy Hook School • Site No. 9 - 285 Berkshire Road, Newtown, Connecticut • April 12, 2013



NOTES:





TOWN OF NEWTOWN

Site # 10 : 79 Church Hill Road, Sandy Hook

Summary description:

This site is a mature forested parcel consisting of 34 acres. The site is currently zoned as business professional zone. The site is located at the intersection of Church Hill Rd, Walnut Tree Hill Rd and Exit 10 off of Interstate 84. It does have other municipal facilities within a mile of the site. The site is severely sloped, and has wetlands present on much of the site.

The site has limited access due to the line of sights and the intersections along Church Hill Road. The main access driveway would need to be located along Walnut Tree Hill Road and would necessitate a complete straightening of the road to provide good line of sight. The Iroquois Natural Gas Pipeline transects the site and would necessitate a permit process with the Federal Energy Regulatory Commission.

School District: Hawley

Land: Privately owned, would need to be purchased

Size: 34 Acres

Utilities: 3 Phase electrical, natural gas, sewer, water



Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE

GRAPHIC SCALE

300 150 0 300



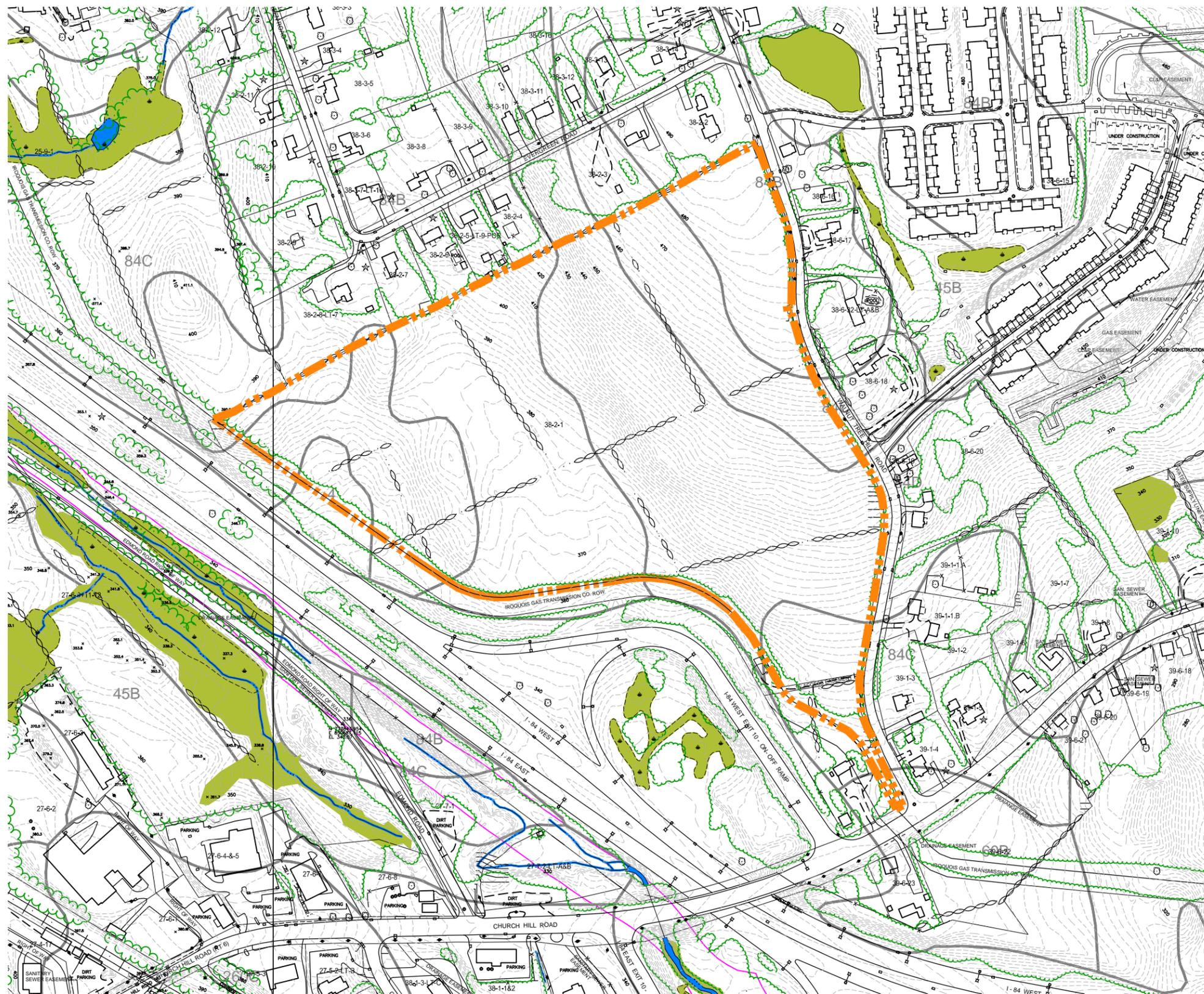
SCALE IN FEET

Sandy Hook School • Site No. 10 - 79 Church Hill Road, Newtown, Connecticut • April 12, 2013





Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  SOILS LIMIT AND TYPE
-  TREELINE

GRAPHIC SCALE

300 150 0 300



SCALE IN FEET

Sandy Hook School • Site No. 10 - 79 Church Hill Road, Newtown, Connecticut • April 12, 2013



NOTES:





TOWN OF NEWTOWN

Site # 11 : 5 Morgan Drive, Sandy Hook

Summary description:

This site is a working farm site with a single family dwelling and existing farm buildings. The site is currently zoned as residential 2 acre. The site is the located at the end of Morgan Drive and not does have other municipal facilities within a mile of the site. The site is moderately level and does have wetlands present on much of the site.

The site has limited access due to the dead end on Morgan Drive with no alternative access. Morgan Drive would need to be completely rebuilt to support school access. The site currently possesses only electrical out of the all the essential utilities.

School District: Sandy Hook

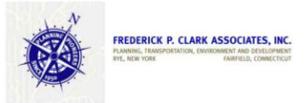
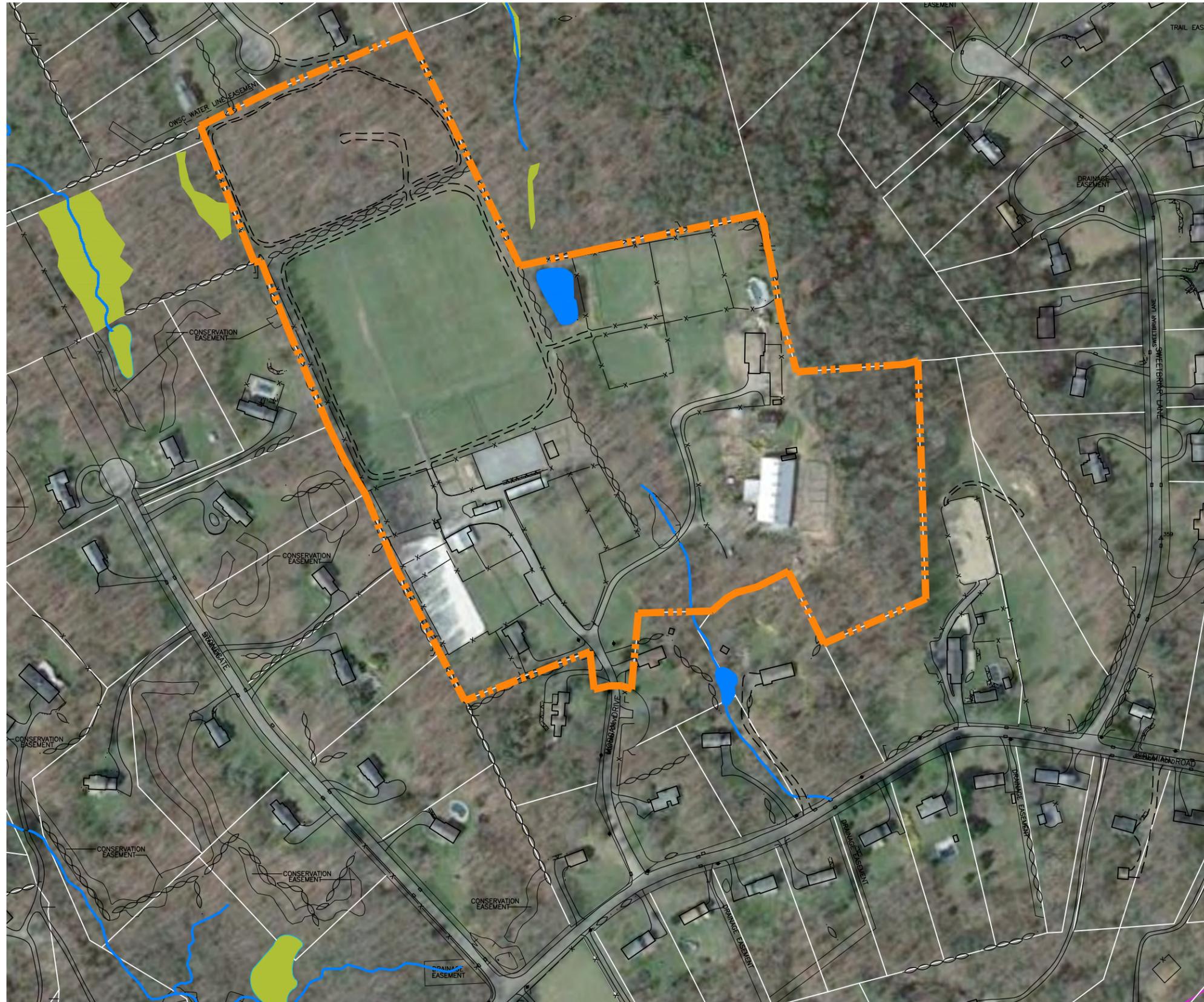
Land: Privately owned, would need to be purchased

Size: 30 Acres

Utilities: 3 Phase electrical only



Existing Conditions - Aerial



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GRAPHIC SCALE

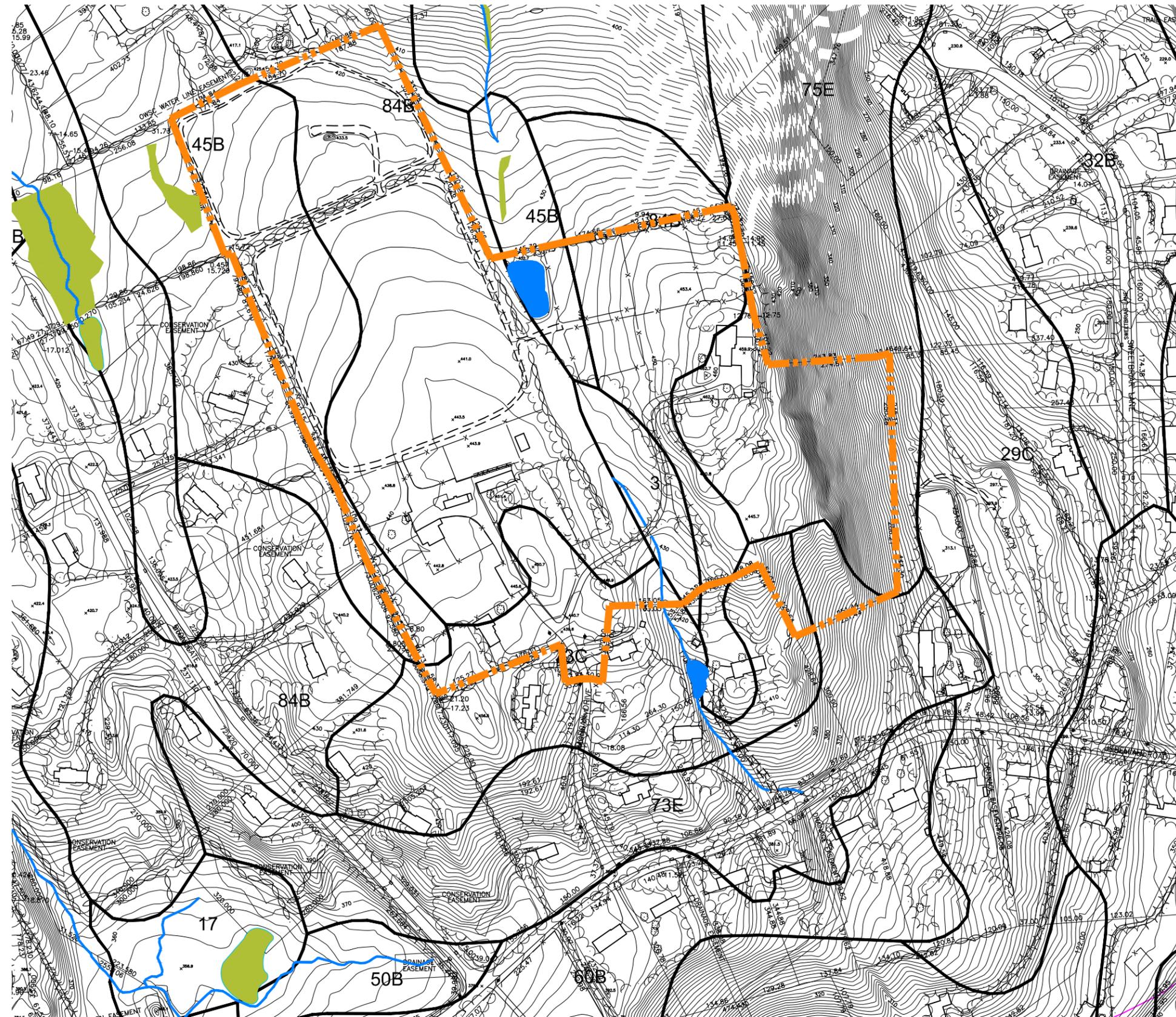


SCALE IN FEET

Sandy Hook School • Site No. 11 - 5 Morgan Drive, Newtown, Connecticut • April 12, 2013

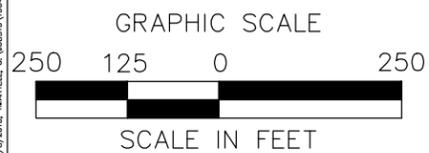


Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  73C SOILS LIMIT AND TYPE
-  TREELINE



Sandy Hook School • Site No. 11 - 5 Morgan Drive, Newtown, Connecticut • April 12, 2013

NOTES:





TOWN OF NEWTOWN

Site # 12 : 8 Homer Clark Lane, Sandy Hook

Summary description:

This site is a forested parcel that has a single family dwelling. The site is currently zoned as residential 2 acre. The site is the located at the end of Homer Clark Lane and not does have other municipal facilities within a mile of the site. The site is moderately level and does have wetlands present on some of the site.

The site has limited access due to the dead end on Homer Clark Lane with no alternative access. Homer Clark Lane is a private road and would need to be completely rebuilt to support school access, but would still suffer from line of sight issues on RTE 34. The site currently possesses only electrical out of the all the essential utilities.

School District: Sandy Hook

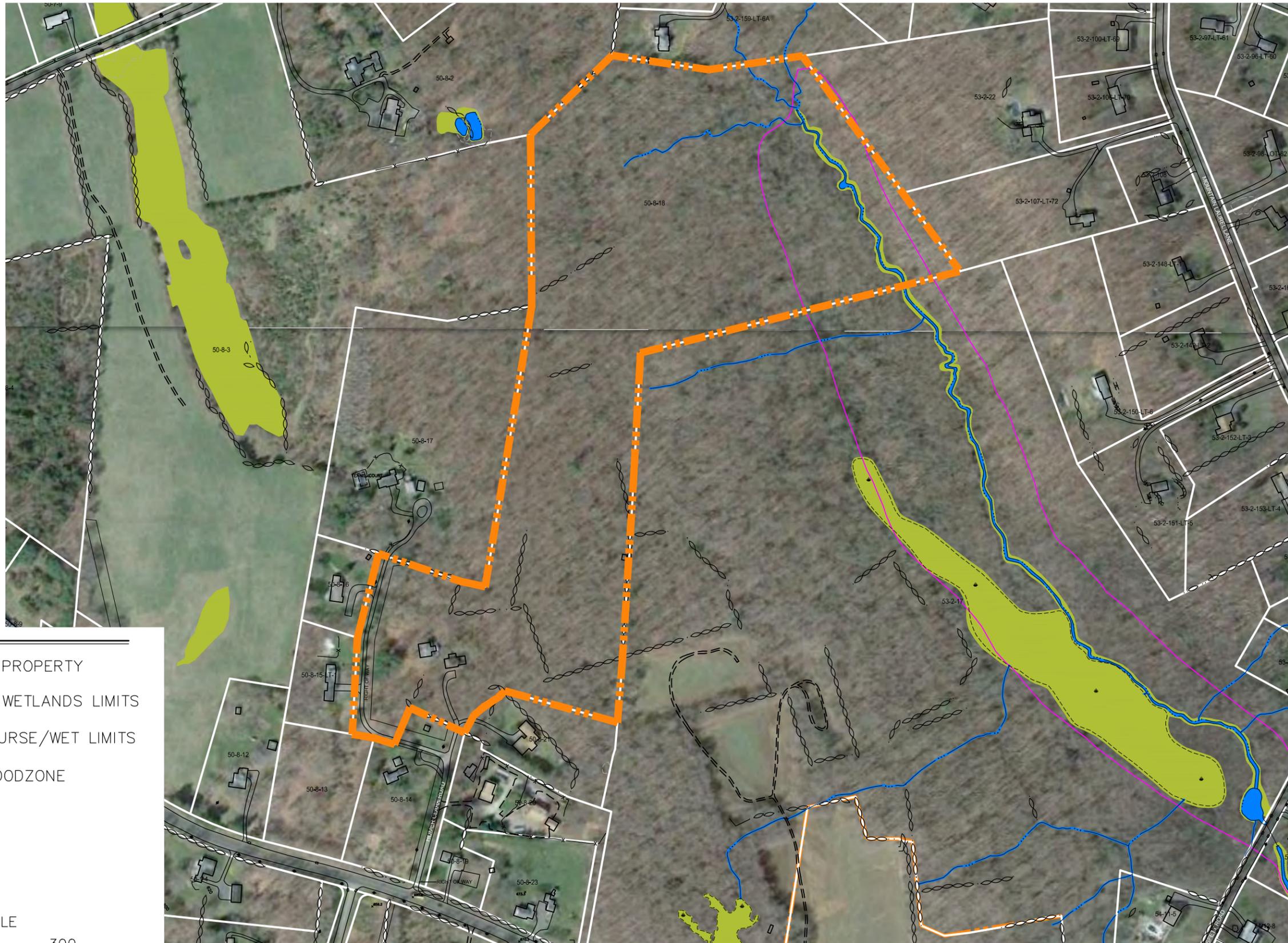
Land: Privately owned, would need to be purchased

Size: 30 Acres

Utilities: 3 Phase electrical only



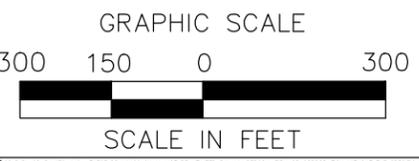
Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE

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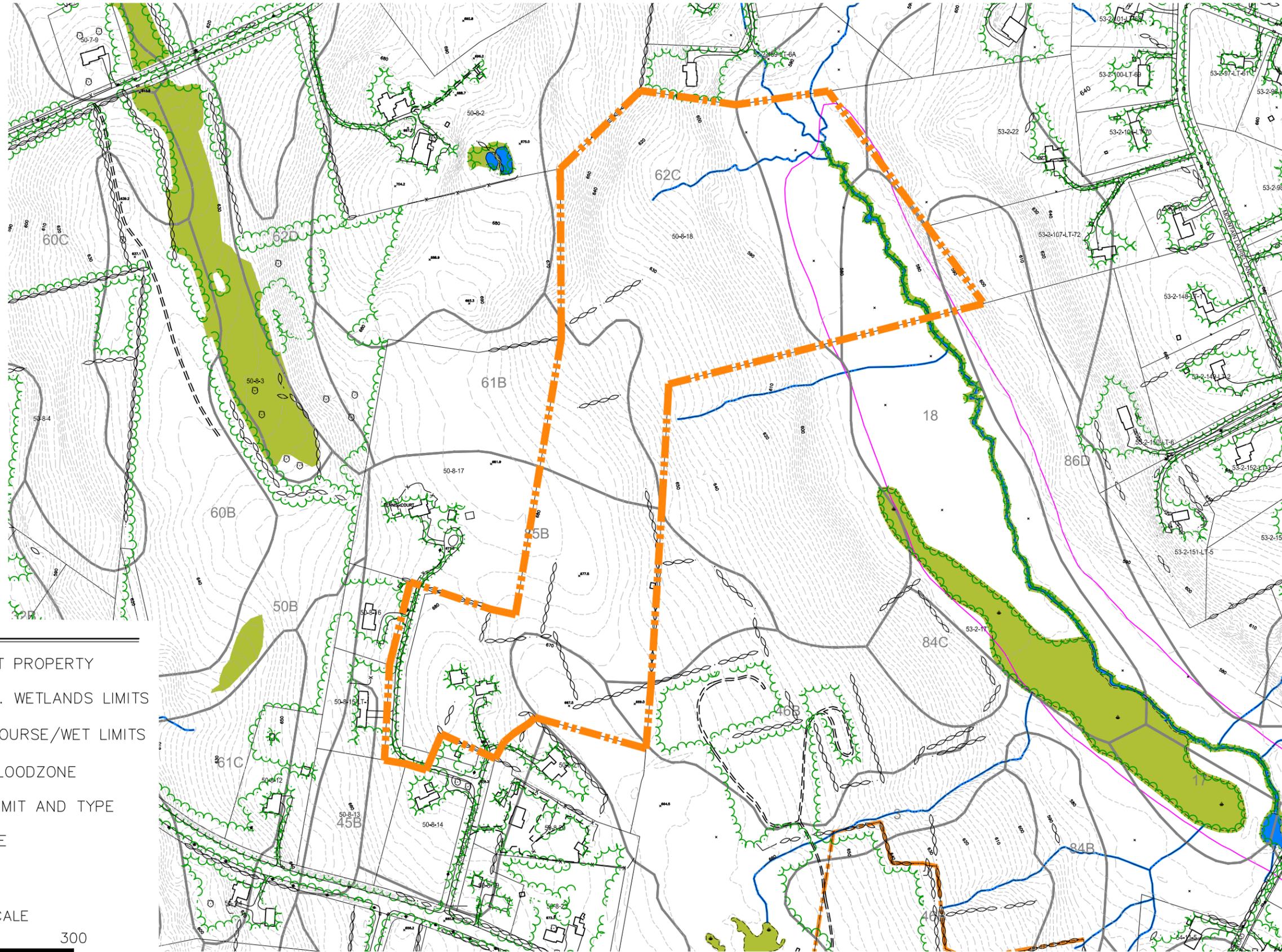


Sandy Hook School • Site No. 12 - 8 Homer Clark Lane, Newtown, Connecticut • April 12, 2013

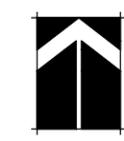
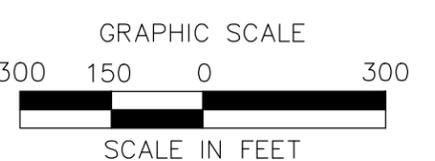
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Existing Conditions - Topography



- LEGEND:**
- SUBJECT PROPERTY
 - APPROX. WETLANDS LIMITS
 - WATERCOURSE/WET LIMITS
 - FEMA FLOODZONE
 - 73C SOILS LIMIT AND TYPE
 - TREELINE



Sandy Hook School • Site No. 12 - 8 Homer Clark Lane, Newtown, Connecticut • April 12, 2013

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NOTES:





TOWN OF NEWTOWN

Site # 13 : 10 Bennetts Bridge Road, Sandy Hook

Summary description:

This site is an existing sixty-eight (68) acre farm field site with no existing buildings. The site is currently zoned as residential 2 acre. The site is located along state road Route 34, Osborne Hill Road, and Bennetts Bridge Road. It does not have any other municipal facilities within a mile of the site. The site is partially steeply sloped and has wetlands present on much of the site.

The site has limited access due to the intersection at Osborne Hill Road and Bennetts Bridge Road. The only access would be possible along Osborne Hill Road and would require road work along this access. The site currently possesses only electrical out of all the essential utilities.

School District: Sandy Hook

Land: Privately owned, would need to be purchased

Size: 68 Acres

Utilities: 3 Phase electrical only



Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE

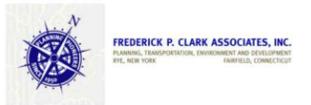
GRAPHIC SCALE

250 125 0 250



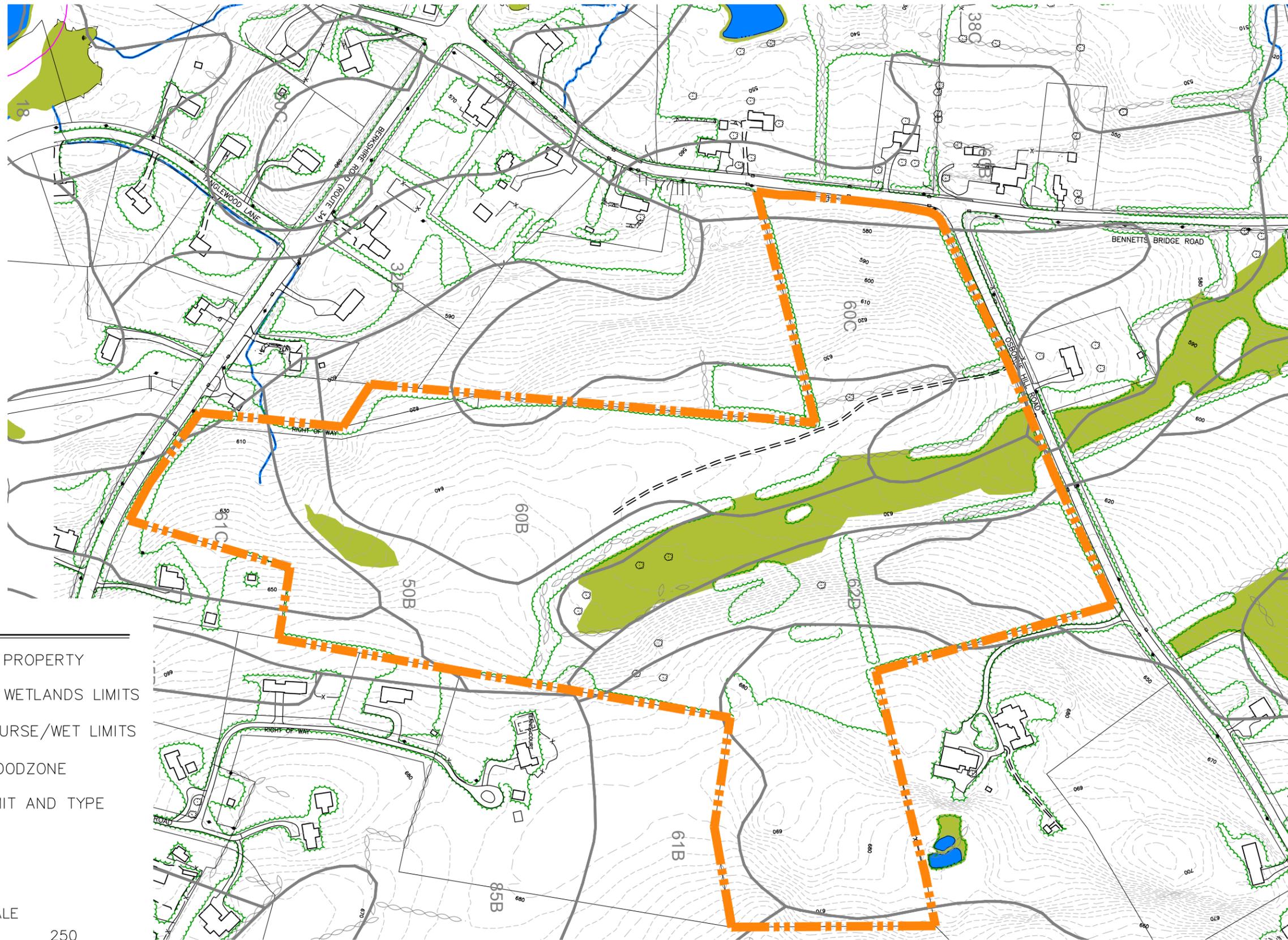
SCALE IN FEET

Sandy Hook School • Site No. 13 - 10 Bennettes Bridge Road, Newtown, Connecticut • April 12, 2013

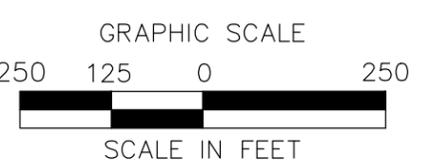




Existing Conditions - Topography



- LEGEND:**
- SUBJECT PROPERTY
 - APPROX. WETLANDS LIMITS
 - WATERCOURSE/WET LIMITS
 - FEMA FLOODZONE
 - 73C SOILS LIMIT AND TYPE
 - TREELINE



Sandy Hook School • Site No. 13 - 10 Bennettes Bridge Road, Newtown, Connecticut • April 12, 2013

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NOTES:





TOWN OF NEWTOWN

Site # 14 : 14 Bennetts Bridge Road, Sandy Hook

Summary description:

This site is an existing thirty (30) acre farm field site with no existing buildings. The site is currently zoned as residential 2 acre. The site is the located along Osborne Hill Road and Bennetts Bridge Road. It does not have any other municipal facilities within a mile of the site. The site is sloped and has wetlands present on much of the site.

The site has limited access due to the intersection at Osborne Hill Road and Bennetts Bridge Road. The only access would be possible along Osborne Hill Road and would require road work along Osborne Hill Road and the intersection at Bennetts Bridge. The site is separated by a long strip of land which limits the site area for development below that which is needed for the school. The site currently possesses only electrical out of the all the essential utilities.

School District: Sandy Hook

Land: Privately owned, would need to be purchased

Size: 30 Acres

Utilities: 3 Phase electrical only

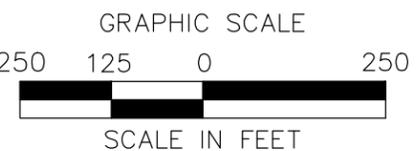


Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE



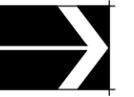
Sandy Hook School • Site No. 14 - 14 Bennettes Bridge Road, Newtown, Connecticut • April 12, 2013

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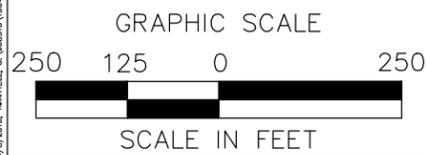


Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  SOILS LIMIT AND TYPE
-  TREELINE



Sandy Hook School • Site No. 14 - 14 Bennettes Bridge Road, Newtown, Connecticut • April 12, 2013

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NOTES:





TOWN OF NEWTOWN

Site # 15 : 56 Pole Bridge Road, Sandy Hook

Summary description:

This site is an existing 56 acre farm field site with no existing buildings. The site is currently zoned as residential 2 acre. The site is the located along Pole Bridge Road. It does not have any other municipal facilities within a mile of the site. The site is sloped and has wetlands present on some of the site.

The site has access along Pole Bridge Road. Traffic review for the site revealed an impact to the Pole Bridge Road and RTE 34 intersection. There is also a traffic concern at the intersection of Pole Bridge Road and Philo Curtis Road. The site currently possesses none of the all the essential utilities.

School District: Sandy Hook

Land: Privately owned, would need to be purchased

Size: 56 Acres

Utilities: None

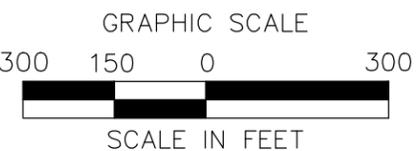


Existing Conditions - Aerial



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE

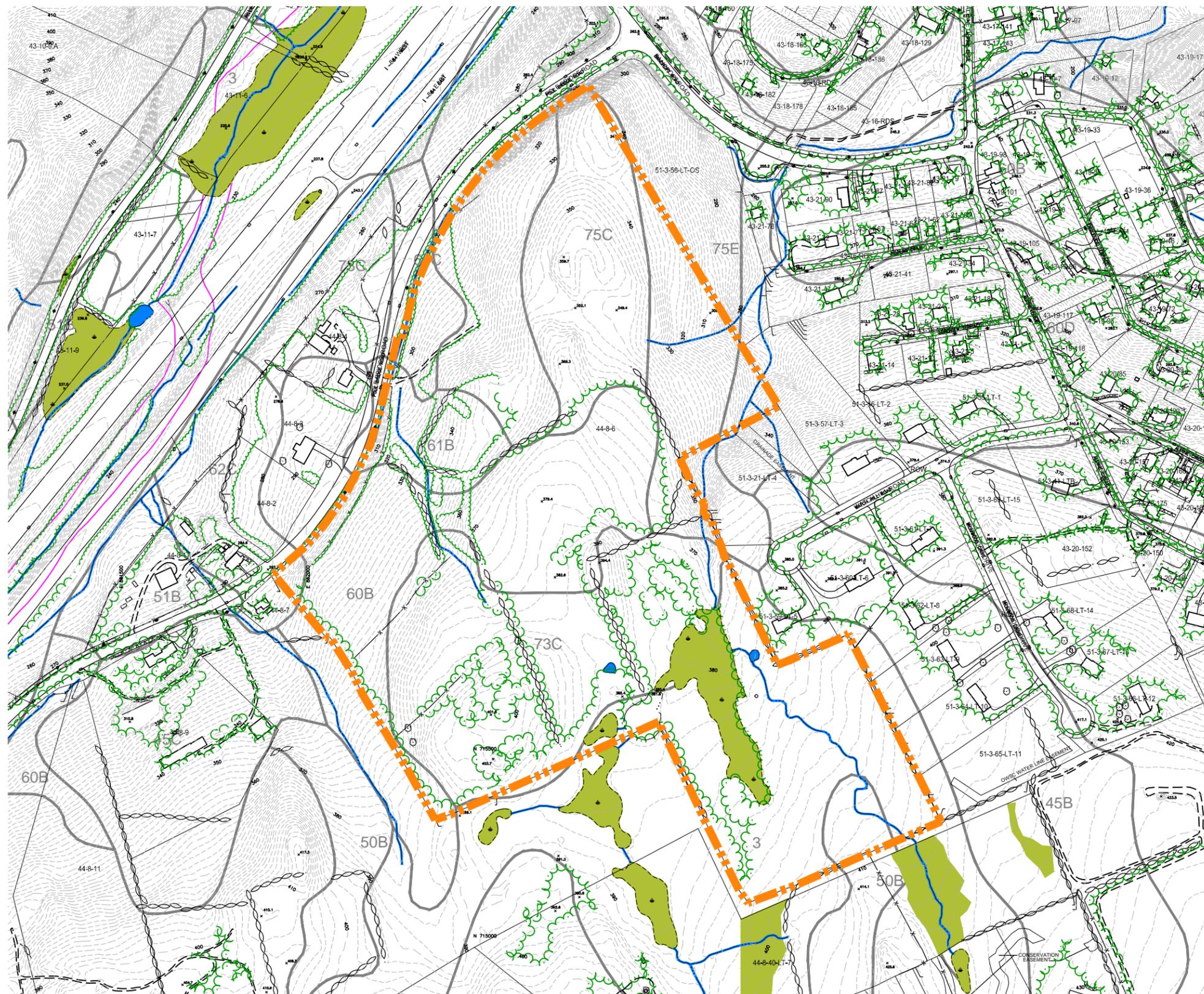


Sandy Hook School • Site No. 15 - 56 Pole Bridge Road, Newtown, Connecticut • April 12, 2013





Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  73C SOILS LIMIT AND TYPE
-  TREELINE

GRAPHIC SCALE

300 150 0 300



SCALE IN FEET

Sandy Hook School • Site No. 15 - 56 Pole Bridge Road, Newtown, Connecticut • April 12, 2013



NOTES:





TOWN OF NEWTOWN

Site # 16 : 96 Toddy Hill Road, Sandy Hook

Summary description:

This site is an existing 28 acre forested site with no existing buildings. The site is currently zoned as residential 2 acre. The site is the located at the intersection of Toddy Hill Road and Turkey Roost Road. It does not have any other municipal facilities within a mile of the site.

The site is level and has wetlands present on some of the site. The site access would require improvements to Turkey Roost Road. The site currently possesses none of the all the essential utilities.

School District: Middlegate

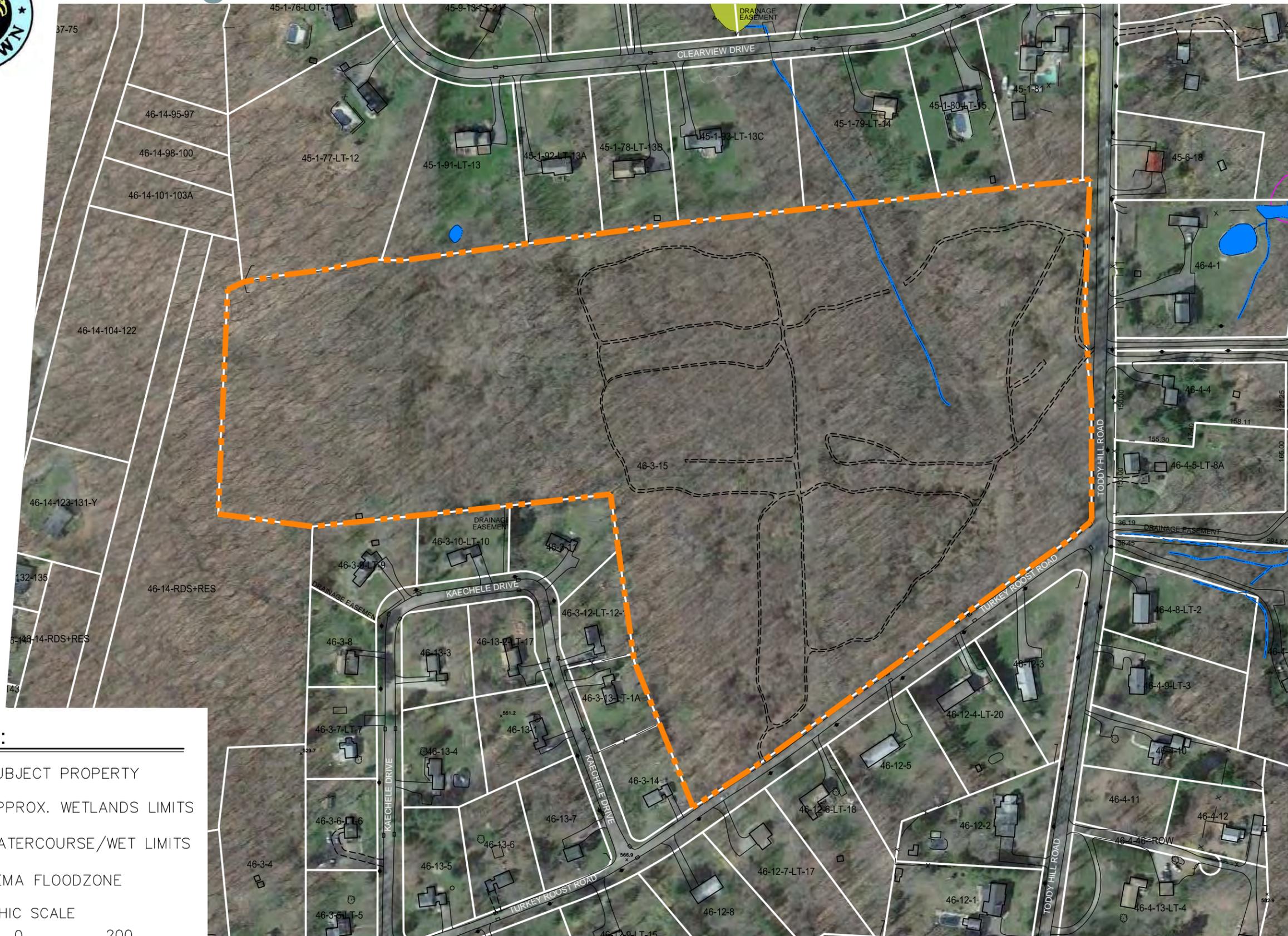
Land: Privately owned, would need to be purchased

Size: 28 Acres

Utilities: None



Existing Conditions - Aerial



LEGEND:

- SUBJECT PROPERTY
- APPROX. WETLANDS LIMITS
- WATERCOURSE/WET LIMITS
- FEMA FLOODZONE

GRAPHIC SCALE

SCALE IN FEET

Sandy Hook School • Site No. 16 - 96 Toddy Hill Road, Newtown, Connecticut • April 12, 2013

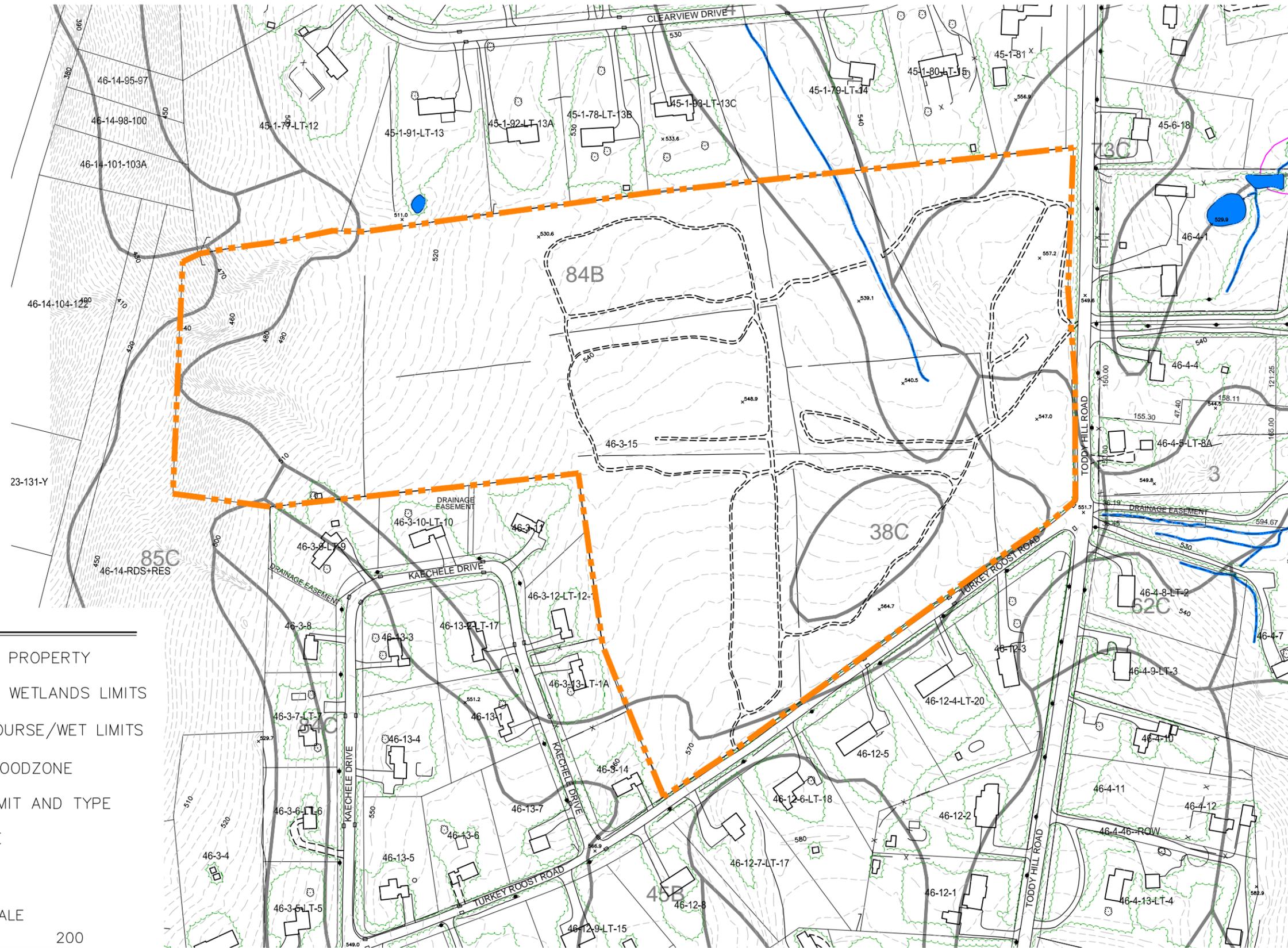


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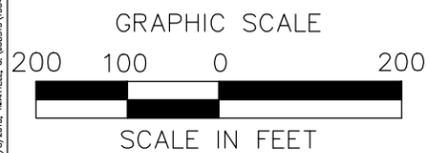


Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  73C SOILS LIMIT AND TYPE
-  TREELINE



Sandy Hook School • Site No. 16 - 96 Toddy Hill Road, Newtown, Connecticut • April 12, 2013



NOTES:





TOWN OF NEWTOWN

Site # 17 : 49 Philo Curtis Road, Sandy Hook

Summary description:

This site is a park facility owned by the Town of Newtown. The site is currently zoned as residential 2 acre. The site is the located along Philo Curtis Road, and does have other municipal facilities within a mile of the site. The site is sloped and does have wetlands present on some of the site.

The access road would need to be improved. The site has existing ball fields already, a pool and supporting building facilities. The site has inadequate acreage for the school with supporting parking and athletic areas. The site currently possesses only electrical out of the all the essential utilities.

School District: Sandy Hook

Land: Owned by Town of Newtown

Size: 45 Acres

Utilities: 3 Phase electrical

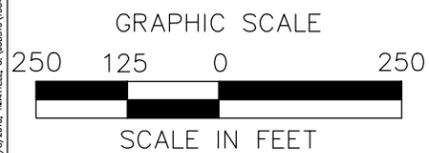


Existing Conditions - Aerial



LEGEND:

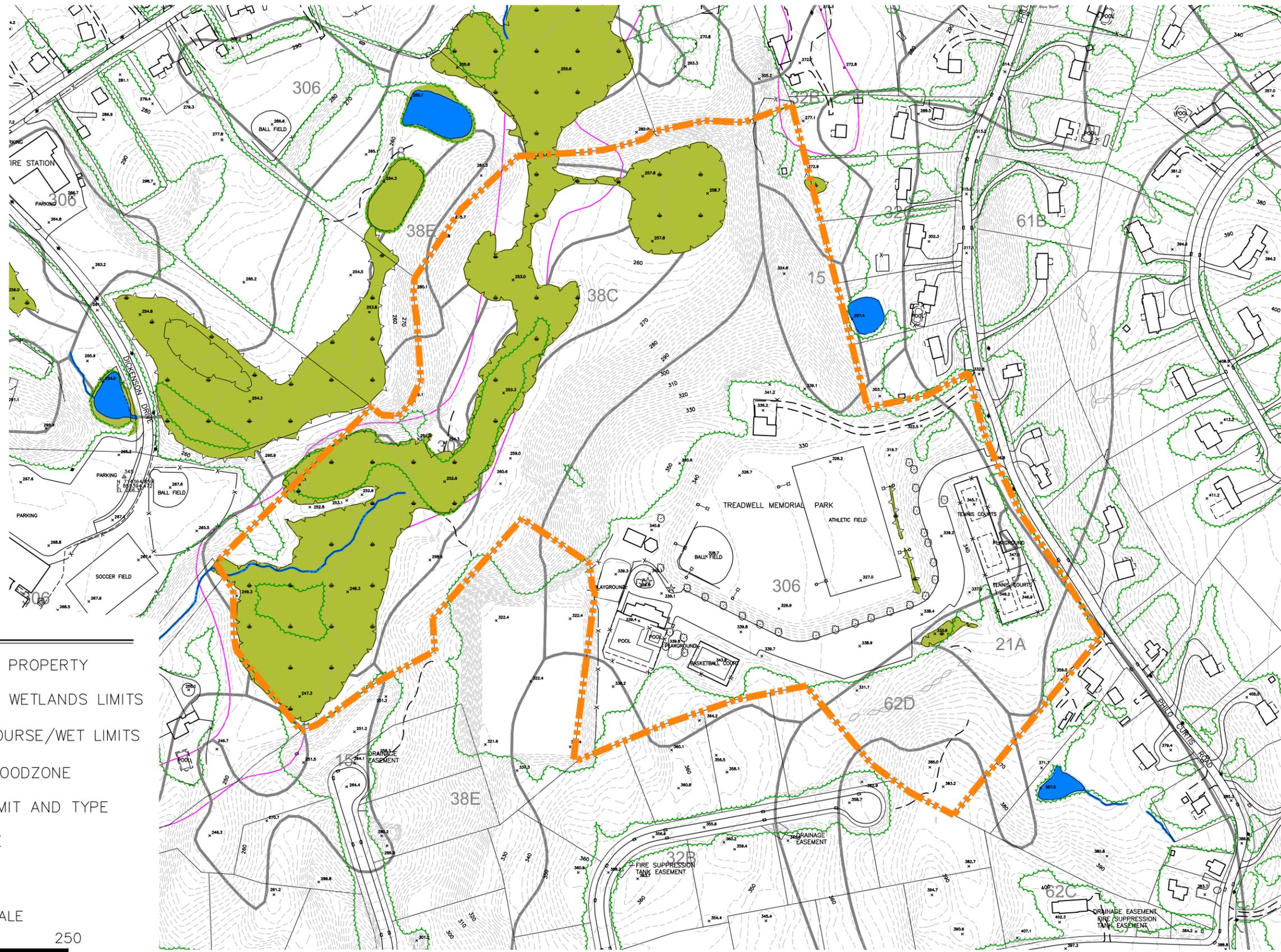
-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE



Sandy Hook School • Site No. 17 - 49 Philo Curtis Road, Newtown, Connecticut • April 12, 2013



Existing Conditions - Topography



LEGEND:

-  SUBJECT PROPERTY
-  APPROX. WETLANDS LIMITS
-  WATERCOURSE/WET LIMITS
-  FEMA FLOODZONE
-  73C SOILS LIMIT AND TYPE
-  TREELINE

GRAPHIC SCALE

250 125 0 250



SCALE IN FEET

Sandy Hook School • Site No. 17 - 49 Philo Curtis Road, Newtown, Connecticut • April 12, 2013



NOTES:





TOWN OF NEWTOWN

Tier III Sites – Summary Analysis

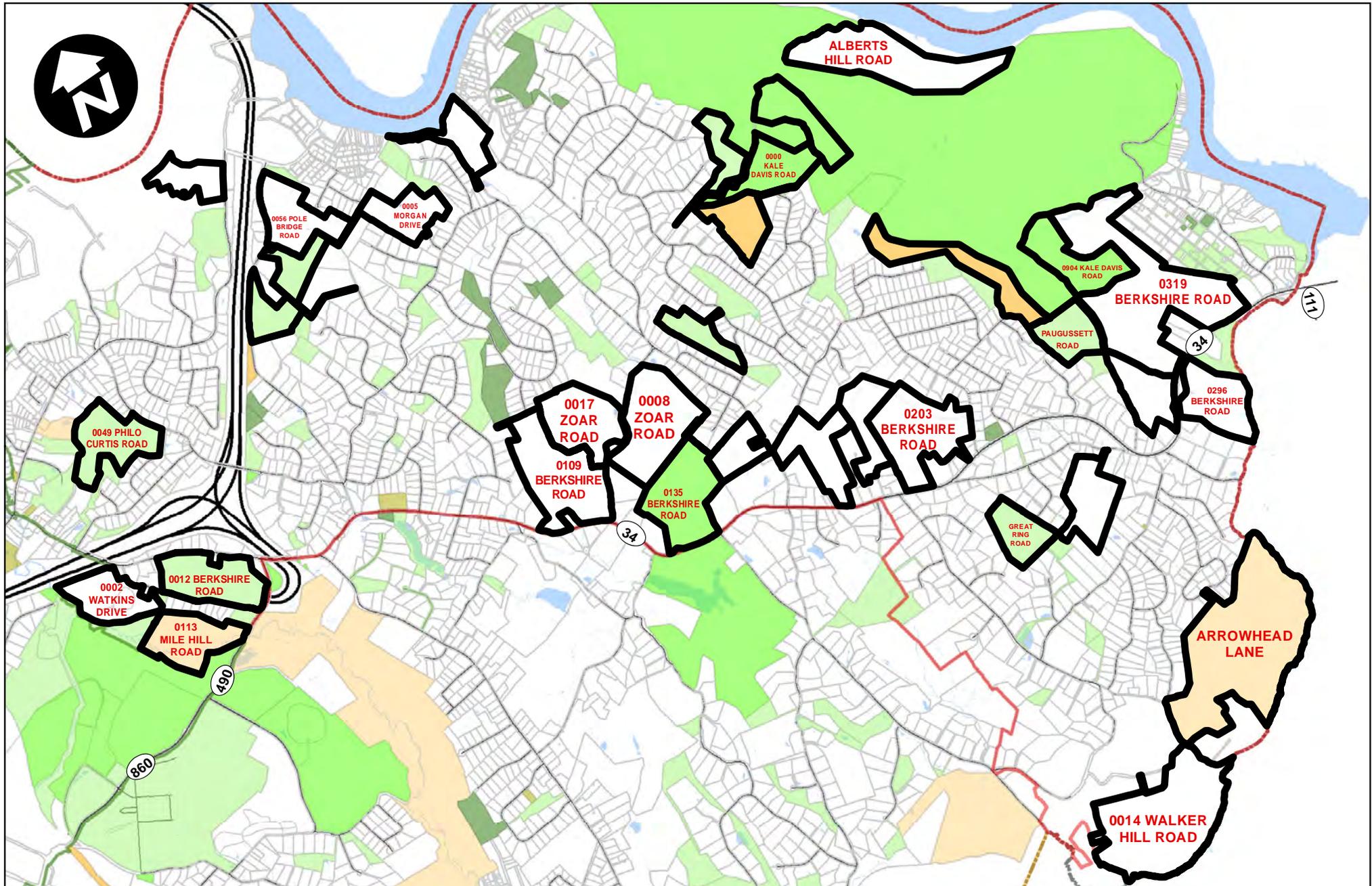
These sites consist of properties which are greater than 20 acres, and are located geographically within the Sandy Hook School district. These sites have restrictive conditions which limit the development of the parcels. These conditions included ownership restrictions, deed easements, location, site conditions, location of utilities, and access to the parcels. These restrictive conditions made site development on these parcels difficult or impossible to overcome given the timeframe for development, scope of the school needs, and forecasted site layout.

ADDRESS	MBL	ACRES
0904 KALE DAVIS ROAD	53-2-1	42.60260021
0038 CHESTNUT HILL ROAD	54-9-18	36.91678693
	51-8-53-LT-	
0012 GELDING HILL ROAD	OS	20.97444982
0113 MILE HILL ROAD	37-3-2	41.34805583
0000 KALE DAVIS ROAD	53-2-28	36.19414347
0034 POLE BRIDGE ROAD	44-8-10-OS	20.90996442
0012 BERKSHIRE ROAD	37-4-1	47.66057808
0319 BERKSHIRE ROAD	57-3-7	147.47534611
0119 RIVERSIDE ROAD	43-10-9.B	23.39854546
ALBERTS HILL ROAD	52-1-3	84.46454518
GREAT RING ROAD	54-9-81-OS	26.40687904
0000 CHAMBERS ROAD	53-2-29	33.64039321
0000 KALE DAVIS ROAD	53-2-172	28.61048368
0000 OSBORN HILL ROAD	53-2-173	40.99751071
0135 BERKSHIRE ROAD	50-9-15	60.32722603
0008 ZOAR ROAD	50-9-10	68.31720832
0014 WALKER HILL ROAD	55-1-3	117.28386993
0296 BERKSHIRE ROAD	57-2-7	42.08335985
ARROWHEAD LANE	55-1-11-LT-A	171.83198350
0007 BRESSON FARM ROAD	50-7-76-OS	21.16623125
0052 POLE BRIDGE ROAD	44-8-8-OS	22.10884686
PAUGUSSETT ROAD	53-2-49	29.23269470
0002 WATKINS DRIVE	38-12-3	36.04300519
0073 BENNETTS BRIDGE ROAD	51-3-19-&- 23	26.57679414
0109 BERKSHIRE ROAD	50-5-4	75.32123975
0017 ZOAR ROAD	50-5-6	47.88843315

Tier III Sites - Sandy Hook School

ADDRESS	MBL	ACRES	FIRE DISTRICT	SCHOOL DISTRICT	ZONE
0904 KALE DAVIS ROAD	53-2-1	42.60	Sandy Hook	Sandy Hook	R-2
0038 CHESTNUT HILL ROAD	54-9-18	36.92	Sandy Hook	Sandy Hook	R-2
0012 GELDING HILL ROAD	51-8-53-LT-OS	20.97	Sandy Hook	Sandy Hook	R-2
0113 MILE HILL ROAD	37-3-2	41.35	Hook & Ladder	Sandy Hook	R-2
0000 KALE DAVIS ROAD	53-2-28	36.19	Sandy Hook	Sandy Hook	R-2
0034 POLE BRIDGE ROAD	44-8-10-OS	20.91	Sandy Hook	Sandy Hook	R-2
0012 BERKSHIRE ROAD	37-4-1	47.66	Sandy Hook	Sandy Hook	R-2
0319 BERKSHIRE ROAD	57-3-7	147.48	Sandy Hook	Sandy Hook	R-2
0119 RIVERSIDE ROAD	43-10-9.B	23.40	Sandy Hook	Sandy Hook	R-2
ALBERTS HILL ROAD	52-1-3	84.46	Sandy Hook	Sandy Hook	R-2
GREAT RING ROAD	54-9-81-OS	26.41	Sandy Hook	Sandy Hook	R-2
0000 CHAMBERS ROAD	53-2-29	33.64	Sandy Hook	Sandy Hook	R-2
0000 KALE DAVIS ROAD	53-2-172	28.61	Sandy Hook	Sandy Hook	R-2
0000 OSBORN HILL ROAD	53-2-173	41.00	Sandy Hook	Sandy Hook	R-2
0135 BERKSHIRE ROAD	50-9-15	60.33	Sandy Hook	Sandy Hook	R-2
0008 ZOAR ROAD	50-9-10	68.32	Sandy Hook	Sandy Hook	R-2
0014 WALKER HILL ROAD	55-1-3	117.28	Botsford	Sandy Hook	R-1
0296 BERKSHIRE ROAD	57-2-7	42.08	Sandy Hook	Sandy Hook	R-2
ARROWHEAD LANE	55-1-11-LT-A	171.83	Sandy Hook	Sandy Hook	R-2
0007 BRESSON FARM ROAD	50-7-76-OS	21.17	Sandy Hook	Sandy Hook	R-1
0052 POLE BRIDGE ROAD	44-8-8-OS	22.11	Sandy Hook	Sandy Hook	R-2
PAUGUSSETT ROAD	53-2-49	29.23	Sandy Hook	Sandy Hook	R-2
0002 WATKINS DRIVE	38-12-3	36.04	Sandy Hook	Sandy Hook	EH-10
0073 BENNETTS BRIDGE ROAD	51-3-19-&-23	26.58	Sandy Hook	Sandy Hook	R-1
0109 BERKSHIRE ROAD	50-5-4	75.32	Sandy Hook	Sandy Hook	R-2
0017 ZOAR ROAD	50-5-6	47.89	Sandy Hook	Sandy Hook	R-2

Sandy Hook School Sites For Greater Than 20+ Acres



0 0.225 0.45 0.9 1.35 1.8 Miles

Steven Birney
April 12, 2013

EXECUTIVE SUMMARY

	Site 1 - 12 Dickinson Drive Renovation	Site 1a - 12 Dickinson Drive Entry and Exit from Crestwood Drive	Site 1b - 12 Dickinson Drive Entry on Crestwood/Exit from Dickinson	Site 2 - 7, 8 & 10 Bennett's Bridge Rd	Site 3 - 21 Mile Hill Rd. South, FFH	Site 4 - Commerce Road	Site 5 - 28 Riverside Rd.
Construction Costs:							
New Elementary School Building	86,948 gsf \$317.35 /gsf \$27,593,000	99,945 gsf \$349.02 /gsf \$34,883,000	99,945 gsf \$349.02 /gsf \$34,883,000	99,945 gsf \$349.02 /gsf \$34,883,000	99,945 gsf \$349.02 /gsf \$34,883,000	99,945 gsf \$349.02 /gsf \$34,883,000	99,945 gsf \$349.02 /gsf \$34,883,000
Site Development	\$6,403,000	\$6,482,000	\$6,514,000	\$14,118,000	\$4,658,000	\$12,173,000	\$10,377,000
Off-Site Work	\$627,000	\$595,000	\$690,000	\$801,000	\$523,000	\$26,000	\$457,000
Demolition / Abatement	\$1,164,000	\$1,230,000	\$1,230,000	\$0	\$3,214,000	\$0	\$14,000
Subtotal Site Work	\$8,194,000	\$8,307,000	\$8,434,000	\$14,919,000	\$8,595,000	\$12,199,000	\$10,848,000
Total Construction Costs:	86,948 gsf \$411.59 /gsf \$35,787,000	99,945 gsf \$432.14 /gsf \$43,190,000	99,945 gsf \$433.41 /gsf \$43,317,000	99,945 gsf \$498.29 /gsf \$49,802,000	99,945 gsf \$435.02 /gsf \$43,478,000	99,945 gsf \$471.08 /gsf \$47,082,000	99,945 gsf \$457.56 /gsf \$45,731,000
Land Acquisition	\$350,000	\$350,000	\$50,000	\$900,000	\$0	\$0	\$290,000
Other "Soft" Costs (20 -30%)	\$7,056,000	\$7,977,000	\$7,991,000	\$8,788,000	\$8,013,000	\$8,455,000	\$8,288,000
Construction Manager Preconstruction Fee (.35%)							
Architect & Engineers Fees (7 - 8%)							
Consultant Fees (1.5 - 2%)							
A/E Reimbursables / Renderings							
Fixtures, Furniture & Equipment							
Technology Fit-out							
Surveys and Soil Borings							
Testing and Inspections (\$2.00/gsf)							
Legal (0.25%)							
Bonding /Owner Financing (3%)							
Administrative							
Owner's Builder's Risk Insurance (0.0016%)							
Utility Consumption (\$1.00/gsf)							
Project Contingency (5%)	\$4,319,000	\$5,152,000	\$5,136,000	\$5,949,000	\$5,149,000	\$5,554,000	\$5,431,000
Total Project Cost:	86,948 gsf \$546.44 /gsf \$47,512,000	99,945 gsf \$567.00 /gsf \$56,669,000	99,945 gsf \$565.25 /gsf \$56,494,000	99,945 gsf \$654.75 /gsf \$65,439,000	99,945 gsf \$566.71 /gsf \$56,640,000	99,945 gsf \$611.25 /gsf \$61,091,000	99,945 gsf \$597.73 /gsf \$59,740,000

Project Cost Summary	Site 1 - 12 Dickinson Dr. Renovation	Site 1a - 12 Dickinson Dr. New	Site 1b - 12 Dickinson Dr. New	Site 2 - 7, 8 & 10 Bennett's Bridge Road	Site 3 - 21 Mile Hill Rd. South, FFH	Site 4 - Commerce Drive	Site 5 - 28 Riverside Drive
Building Cost	\$27,593,000	\$34,883,000	\$34,883,000	\$34,883,000	\$34,883,000	\$34,883,000	\$34,883,000
Site Work Cost	\$8,194,000	\$8,307,000	\$8,434,000	\$14,919,000	\$8,595,000	\$12,199,000	\$10,848,000
Other Costs	\$11,725,000	\$13,479,000	\$13,177,000	\$15,637,000	\$13,162,000	\$14,009,000	\$14,009,000
Total Project Cost	\$47,512,000	\$56,669,000	\$56,494,000	\$65,439,000	\$56,640,000	\$61,091,000	\$59,740,000

Construction Schedule	17 months	17 months	17 months	21 months	18 months	17 months	19 months
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Site 1 - 12 Dickinson Drive

Renovation

	Building		Demolition & Abatement		Sitework		Off-Site Work		Total	
	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL
Demolition	0.00	0	8.72	872,000					8.72	872,000
Excavation & Foundation	9.89	860,000							8.60	860,000
Structural Frame	24.14	2,099,000							21.00	2,099,000
Roofing & Waterproofing	29.34	2,551,000							25.52	2,551,000
Exterior Wall	19.10	1,661,000							16.62	1,661,000
Interior Finishes	48.57	4,223,000							42.25	4,223,000
Special Requirements	23.58	2,050,000							20.51	2,050,000
Vertical Transportation	0.17	15,000							0.15	15,000
Plumbing	12.11	1,053,000							10.54	1,053,000
Fire Protection	5.00	435,000							4.35	435,000
HVAC & Controls	39.77	3,458,000							34.60	3,458,000
Electrical	26.15	2,274,000							22.75	2,274,000
Site Work					48.01	4,798,000			48.01	4,798,000
Off-Site Work							4.70	470,000	4.70	470,000
Escalation	5.00%	1,034,000		44,000		240,000		24,000		1,342,000
Design Contingency	10.00%	2,171,000		92,000		504,000		49,000		2,816,000
Construction Contingency	5.00%	1,194,000		50,000		277,000		27,000		1,548,000
Construction Managers Services	10.00%	2,508,000		106,000		582,000		57,000		3,253,000
State Permit Fee	0.03%	7,000		0		2,000		0		9,000
CONSTRUCTION COST TOTAL	317.35	27,593,000	11.65	1,164,000	64.07	6,403,000	6.27	627,000	358.07	35,787,000

GSF>>>

86,948

99,945

99,945

99,945

99,945

Site 1a - 12 Dickinson Drive
 Entry and Exit from Crestwood Drive

	Building		Demolition & Abatement		Sitework		Off-Site Work		Total	
	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL
Demolition & Hazmat Removal	0.00	0	9.23	922,000					9.23	922,000
Excavation & Foundation	16.54	1,653,000							16.54	1,653,000
Structural Frame	16.36	1,635,000							16.36	1,635,000
Roofing & Waterproofing	42.22	4,220,000							42.22	4,220,000
Exterior Wall	30.86	3,084,000							30.86	3,084,000
Interior Finishes	54.03	5,400,000							54.03	5,400,000
Special Requirements	20.88	2,087,000							20.88	2,087,000
Vertical Transportation	0.15	15,000							0.15	15,000
Plumbing	10.50	1,049,000							10.50	1,049,000
Fire Protection	5.00	500,000							5.00	500,000
HVAC & Controls	39.39	3,937,000							39.39	3,937,000
Electrical	25.63	2,562,000							25.63	2,562,000
Site Work					48.60	4,857,000			48.60	4,857,000
Off-Site Work							4.46	446,000	4.46	446,000
Escalation	5.00%	1,307,000		46,000		243,000		22,000		1,618,000
Design Contingency	10.00%	2,745,000		97,000		510,000		47,000		3,399,000
Construction Contingency	5.00%	1,510,000		53,000		281,000		26,000		1,870,000
Construction Managers Services	10.00%	3,170,000		112,000		589,000		54,000		3,925,000
State Permit Fee	0.03%	9,000		0		2,000		0		11,000
CONSTRUCTION COST TOTAL	349.02	34,883,000	12.31	1,230,000	64.86	6,482,000	5.95	595,000	432.14	43,190,000
GSF>>>		99,945		99,945		99,945		99,945		99,945

Site 1b · 12 Dickinson Drive

Entry on Crestwood and Exit from Dickinson

	Building		Demolition & Abatement		Sitework		Sitework		Total	
	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL
Demolition	0.00	0	9.23	922,000					9.23	922,000
Excavation & Foundation	16.54	1,653,000							16.54	1,653,000
Structural Frame	16.36	1,635,000							16.36	1,635,000
Roofing & Waterproofing	42.22	4,220,000							42.22	4,220,000
Exterior Wall	30.86	3,084,000							30.86	3,084,000
Interior Finishes	54.03	5,400,000							54.03	5,400,000
Special Requirements	20.88	2,087,000							20.88	2,087,000
Vertical Transportation	0.15	15,000							0.15	15,000
Plumbing	10.50	1,049,000							10.50	1,049,000
Fire Protection	5.00	500,000							5.00	500,000
HVAC & Controls	39.39	3,937,000							39.39	3,937,000
Electrical	25.63	2,562,000							25.63	2,562,000
Site Work					48.84	4,881,000			48.84	4,881,000
Off-Site Work							517,000		5.17	517,000
Escalation	5.00%	1,307,000		46,000		244,000		26,000		1,623,000
Design Contingency	10.00%	2,745,000		97,000		513,000		54,000		3,409,000
Construction Contingency	5.00%	1,510,000		53,000		282,000		30,000		1,875,000
Construction Managers Services	10.00%	3,170,000		112,000		592,000		63,000		3,937,000
State Permit Fee	0.03%	9,000		0		2,000		0		11,000
CONSTRUCTION COST TOTAL	349.02	34,883,000	12.31	1,230,000	65.18	6,514,000	6.90	690,000	433.41	43,317,000
GSF>>>		99,945		99,945		99,945		99,945		99,945

Site 2 - 7, 8 & 10 Bennett's Bridge Rd

	Building		Demolition & Abatement		Sitework		Off-Site Work		Total	
	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL
Demolition	0.00	0	0.00						0.00	0
Excavation & Foundation	16.54	1,653,000							16.54	1,653,000
Structural Frame	16.36	1,635,000							16.36	1,635,000
Roofing & Waterproofing	42.22	4,220,000							42.22	4,220,000
Exterior Wall	30.86	3,084,000							30.86	3,084,000
Interior Finishes	54.03	5,400,000							54.03	5,400,000
Special Requirements	20.88	2,087,000							20.88	2,087,000
Vertical Transportation	0.15	15,000							0.15	15,000
Plumbing	10.50	1,049,000							10.50	1,049,000
Fire Protection	5.00	500,000							5.00	500,000
HVAC & Controls	39.39	3,937,000							39.39	3,937,000
Electrical	25.63	2,562,000							25.63	2,562,000
Site Work					105.86	10,580,000			105.86	10,580,000
Off-Site Work							6.00	600,000	6.00	600,000
Escalation	5.00%	1,307,000		0		529,000		30,000		1,866,000
Design Contingency	10.00%	2,745,000		0		1,111,000		63,000		3,919,000
Construction Contingency	5.00%	1,510,000		0		611,000		35,000		2,156,000
Construction Managers Services	10.00%	3,170,000		0		1,283,000		73,000		4,526,000
State Permit Fee	0.03%	9,000		0		4,000		0		13,000
CONSTRUCTION COST TOTAL	349.02	34,883,000	0.00	0	141.26	14,118,000	8.01	801,000	498.29	49,802,000
	GSF>>>	99,945		99,945		99,945		99,945		99,945

Site 3 - 21 Mile Hill Rd. South, FFH

	Building		Demolition & Abatement		Sitework		Off-Site Work		Total	
	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL
Demolition	0.00	0	24.10	2,409,000					24.10	2,409,000
Excavation & Foundation	16.54	1,653,000							16.54	1,653,000
Structural Frame	16.36	1,635,000							16.36	1,635,000
Roofing & Waterproofing	42.22	4,220,000							42.22	4,220,000
Exterior Wall	30.86	3,084,000							30.86	3,084,000
Interior Finishes	54.03	5,400,000							54.03	5,400,000
Special Requirements	20.88	2,087,000							20.88	2,087,000
Vertical Transportation	0.15	15,000							0.15	15,000
Plumbing	10.50	1,049,000							10.50	1,049,000
Fire Protection	5.00	500,000							5.00	500,000
HVAC & Controls	39.39	3,937,000							39.39	3,937,000
Electrical	25.63	2,562,000							25.63	2,562,000
Site Work					36.43	3,641,000			36.43	3,641,000
Off-Site Work							3.91	391,000	3.91	391,000
Escalation	5.00%	1,307,000		120,000		182,000		20,000		1,629,000
Design Contingency	10.00%	2,745,000		253,000		382,000		41,000		3,421,000
Construction Contingency	5.00%	1,510,000		139,000		210,000		23,000		1,882,000
Construction Managers Services	10.00%	3,170,000		292,000		442,000		48,000		3,952,000
State Permit Fee	0.03%	9,000		1,000		1,000		0		11,000
CONSTRUCTION COST TOTAL	349.02	34,883,000	32.16	3,214,000	48.61	4,858,000	5.23	523,000	435.02	43,478,000
GSF>>>		99,945		99,945		99,945		99,945		99,945

Site 4 - Commerce Road

	Building		Demolition & Abatement		Sitework		Off-Site Work		Total	
	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL
Demolition	0.00	0	0.00						0.00	0
Excavation & Foundation	16.54	1,653,000							16.54	1,653,000
Structural Frame	16.36	1,635,000							16.36	1,635,000
Roofing & Waterproofing	42.22	4,220,000							42.22	4,220,000
Exterior Wall	30.86	3,084,000							30.86	3,084,000
Interior Finishes	54.03	5,400,000							54.03	5,400,000
Special Requirements	20.88	2,087,000							20.88	2,087,000
Vertical Transportation	0.15	15,000							0.15	15,000
Plumbing	10.50	1,049,000							10.50	1,049,000
Fire Protection	5.00	500,000							5.00	500,000
HVAC & Controls	39.39	3,937,000							39.39	3,937,000
Electrical	25.63	2,562,000							25.63	2,562,000
Site Work					91.28	9,123,000			91.28	9,123,000
Off-Site Work							20,000		0.20	20,000
Escalation	5.00%	1,307,000		0		456,000	1,000			1,764,000
Design Contingency	10.00%	2,745,000		0		958,000	2,000			3,705,000
Construction Contingency	5.00%	1,510,000		0		527,000	1,000			2,038,000
Construction Managers Services	10.00%	3,170,000		0		1,106,000	2,000			4,278,000
State Permit Fee	0.03%	9,000		0		3,000	0			12,000
CONSTRUCTION COST TOTAL	349.02	34,883,000	0.00	0	121.80	12,173,000	0.26	26,000	471.08	47,082,000
GSF>>>		99,945		99,945		99,945		99,945		99,945

Site 5 - 28 Riverside Rd.

	Building		Demolition & Abatement		Sitework		Off-Site Work		Total	
	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL	\$/GSF	TOTAL
Demolition	0.00	0	0.10	10,000					0.10	10,000
Excavation & Foundation	16.54	1,653,000							16.54	1,653,000
Structural Frame	16.36	1,635,000							16.36	1,635,000
Roofing & Waterproofing	42.22	4,220,000							42.22	4,220,000
Exterior Wall	30.86	3,084,000							30.86	3,084,000
Interior Finishes	54.03	5,400,000							54.03	5,400,000
Special Requirements	20.88	2,087,000							20.88	2,087,000
Vertical Transportation	0.15	15,000							0.15	15,000
Plumbing	10.50	1,049,000							10.50	1,049,000
Fire Protection	5.00	500,000							5.00	500,000
HVAC & Controls	39.39	3,937,000							39.39	3,937,000
Electrical	25.63	2,562,000							25.63	2,562,000
Site Work					77.80	7,776,000			77.80	7,776,000
Off-Site Work							3.42	342,000	3.42	342,000
Escalation	5.00%	1,307,000		1,000		389,000		17,000		1,714,000
Design Contingency	10.00%	2,745,000		1,000		817,000		36,000		3,599,000
Construction Contingency	5.00%	1,510,000		1,000		449,000		20,000		1,980,000
Construction Managers Services	10.00%	3,170,000		1,000		943,000		42,000		4,156,000
State Permit Fee	0.03%	9,000		0		3,000		0		12,000
CONSTRUCTION COST TOTAL	349.02	34,883,000	0.14	14,000	103.83	10,377,000	4.57	457,000	457.56	45,731,000
GSF>>>		99,945		99,945		99,945		99,945		99,945

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Demolition						
Building						
	<<separate>>					
Subtotal Building:	86,948	gsf	0.00	0		
Total Demolition	86,948	gsf	0.00	0		
Excavation and Foundations						
Building						
Excavation and backfill	<<with Sitework>>					
Foundation walls and footings	<<with footing>>					
Frost Walls At Typical Wall	<<with footing>>					
Footing (3' x 1.5')	826	lf			0	3.00 feet wide
Excavation (including layback)	1,223	cy	15.00	18,346		1.50 feet high
Formwork	1,887	sf	10.00	18,870		
Concrete	105	cy	200.00	20,967		
Reinforcing	13,104	lbs	1.15	15,070		125 lbs per cy
Crushed Gravel	116	cy	45.00	5,242		12 inches deep
Backfill with on-site material	924	cy	10.00	9,243		
Export excess material	299	cy	12.00	3,585		
Subtotal Footing (3' x 1.5')	629	lf	145.19	91,322		
less excavation	629	lf	95.63	60,148		
	105	cy	573.75			
16" Foundation Wall	629	lf			0	1.33 feet wide
Excavation (including layback)	<<with footing>>					
Formwork	3,145	sf	12.00	37,740		
Concrete	77	cy	225.00	17,429		
Reinforcing	8,290	lbs	1.15	7,234		4 lbs. per sfw
Backfill with on-site material	<<with footing>>					
Export excess material	<<with footing>>					
Subtotal 16" Foundation Wall	629	lf	99.21	62,402		
	184					
Frost Walls At High Walls	<<with footing>>					
Footing (3' x 1.5')	184	lf			0	3.00 feet wide
Excavation (including layback)	355	cy	15.00	5,367		1.50 feet high
Formwork	552	sf	10.00	5,520		
Concrete	31	cy	200.00	6,133		
Reinforcing	3,833	lbs	1.15	4,408		125 lbs per cy
Crushed Gravel	34	cy	45.00	1,533		12 inches deep
Backfill with on-site material	267	cy	10.00	2,675		
Export excess material	90	cy	12.00	1,084		
Subtotal Footing (3' x 1.5')	184	lf	145.22	26,720		
less excavation	184	lf	95.63	17,595		
	31	cy	573.75			
18" Foundation Wall	184	lf			0	1.50 feet wide
Excavation (including layback)	<<with footing>>					
Formwork	920	sf	12.00	11,040		
Concrete	26	cy	225.00	5,750		
Reinforcing	2,760	lbs	1.15	3,174		6 lbs. per sfw
Backfill with on-site material	<<with footing>>					
Export excess material	<<with footing>>					
Subtotal 18" Foundation Wall	184	lf	108.50	19,964		
less excavation	26	cy	781.20	19,964		
	460	sfw	43.40			
Spread footings	77	ea	750.00	57,973		30' x 30' bays
5" Slab on Grade	58,968	sf		0		
5" concrete slab on grade	352	cy	250.00	87,914		
Welded wire fabric	58,968	sf	1.15	65,513		
Vapor Barrier	58,968	sf	0.75	42,726		
Underslab insulation	1,687	sf	3.00	5,661		3' -0" at perimeter
12" Base course/gravel	<<with Sitework>>					
Subtotal 5" Slab on Grade:		\$\$/sf	3.54	201,614		
Patch existing slab	29,980	sf	2.00	59,960		
Premium Radiant Flooring	86,948	sf	1.50	130,422		topping slab
Haunch slab on grade at perimeter	1,291	lf	20.00	25,820		
Haunch at Interior CMU Walls	3,800	lf				<< info only >>
Subgrade, Stone, WP, etc	<< with SCG above >>					
Concrete	422	cy	225.00	95,000		
Reinforcing	22,846	lbs	1.15	54.1		26,272
Subtotal Haunch at Interior CMU Walls:	3,800	lf	32	121,272		
Planters	<<not required>>					
Equipment Pads	1	ls	6,250	6,250		
Elevator Pit	<<not required>>					
Sump Pit	<<not required>>					
Locker Pads	<<not required>>					
Fluid applied waterproofing at ftn wall	2,846	sfw	4.00	11,382		
Rigid insulation	2,846	sfw	3.00	8,537		
Perimeter footing drains	813	lf	30.00	24,390		
Under slab drains	<<assume not required>>					
Casual pumping of groundwater	1	ls	12,000	12,000		
Subtotal Building:	86,948	gsf	9.89	860,800		
Total Excavation and Foundations	86,948	gsf	9.89	860,800		
Structural Frame						
Building						
Structural steel framing	413	tons	1,800.00	743,405		assume 9.50 lbs/sgf
Columns and framing	<<with above>>					
Columns	<<with above>>					

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Joists	<<with above>>					
Premium at skylights	15.20	tons	1,800.00		27,360	
Bracing	20.65	tons	1,800.00		37,170	assume 5.00%
Connections	22.44	tons	1,800.00		40,397	assume 5.00%
Erection	471.30	tons	1,600.00		754,073	
Subtotal Structural steel framing:	58,934	gsf	27.19	1,602,406		
	58,934	gsf	15.99			
Metal floor deck	0	sf	3.50		0	
Metal roof deck	58,934	sf	4.00		235,738	at new structure only
Subtotal Structural Steel incl. deck				1,838,143		
4" Fill on metal floor deck	0	cy	365.00		0	
Sprayed on fireproofing	<<not required>>					
Steel Structure	86,948	gsf	21.14	1,838,143		
Metal stairs	0	flights	7,500		0	
Miscellaneous metals	86,948	gsf	2.50		217,370	
Safety and protection	86,948	gsf	0.50		43,474	
Subtotal Building:	86,948	gsf	24.14	2,099,000		
Total Structural Frame	86,948	gsf	24.14	2,099,000		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Roofing & Waterproofing						
Building						
TPO Membrane	87,499	sfroof	<<info only>>		0	
TPO Membrane	87,499	sfroof	17.00	1,487,483		
Coverboard on Insulation		<<with above>>		0		
Tapered Insulation		<<with above>>		0		
Self Adhered Vapor Retarder	87,499	sfroof	2.00	174,998		
Sheathing	87,499	sfroof	2.75	240,622		
Subtotal TPO Membrane:	87,499	sfroof	21.75	1,903,000		
Standing Seam Membrane		sfroof		0		at entries
Standing Seam Membrane	726	sfroof	30.00	21,792		
Valleys & Ridges		<<with above>>		0		
Roof Edge		<<with above>>		0		
Insulation		<<with above>>		0		
Self Adhered Vapor Retarder	726	sfroof	2.00	1,453		
Sheathing	726	sfroof	2.75	1,998		
Subtotal Standing Seam Membrane:	726	sfroof	34.42	25,000		
Gutter System	72	lf	25.00	1,800		at entries only
Downspouts	42	lf	20.00	840		at entries only
Wall Flashing	729	lf	30.00	21,870		
Perimeter Coping	2,060	lf	35.00	72,100		
Blocking		<<with above>>		0		
Skylights				0		
Classroom	35	ea	7,629	267,009		
Other	41	ea	4,961	203,401		
LED Lights		<<with above>>		0		
Electronic Shades		<<with above>>		0		classrooms only
Roofing Tie-ins		<<with above>>		0		
Subtotal Skylights:	86,948	gsf	5.41	470,000		
Roof screens		<<assume none required>>		0		
Snowguards	0	lf	25.00	0		
Roof accessories	1	allow	5,000	5,000		
Expansion Joints	578	lf	50	28,900		belwn old and new
Temporary roofing	86,948	sfroof	0.25	21,737		
Subtotal Building:	86,948	gsf	29.34	2,551,000		
Total Roofing & Waterproofing	86,948	gsf	29.34	2,551,000		
Exterior Wall						
Building						
Brick with c.m.u. backup				0		
Brick veneer	15,959	sfw	32.00	510,688		
Sealants	15,959	sfw	0.75	11,969		
7" Cast Stone Waterable Premium	1,292	lf	10.00	12,920		
Soldier Course Premium	442	lf	15.00	6,626		
Smooth Face Accent Premium	3,434	lf	5.00	17,171		
Relieving angles		<<assume not required>>		0		
3 in. rigid insulation	15,959	sfw	3.00	47,877		
Air/Vapor barrier	15,959	sfw	4.00	63,836		
8 inch c.m.u. backup	15,959	sfw	20.00	319,180		
Interior sheetrock and framing		<<assume not required>>		0		
Paint Exposed CMU		<<with Interior Finishes>>		0		
Winter weather heat/protection		<<assume not required>>		0		
Subtotal Brick with c.m.u. backup	15,959	sfw	62.05	990,268		
Fiber Cement Board with c.m.u. backup				0		
Fiber Cement Board	5,516	sfw	14.00	77,224		
Framing		<<with above>>		0		
Sealants	5,516	sfw	0.75	4,137		
3 in. insulation	5,516	sfw	3.00	16,548		
Air/Vapor barrier	5,516	sfw	4.00	22,064		
8 inch c.m.u. backup	5,516	sfw	20.00	110,320		
Interior sheetrock and framing		<<assume not required>>		0		
Paint Exposed CMU		<<with Interior Finishes>>		0		
Winter weather heat/protection		<<assume not required>>		0		
Subtotal Fiber Cement Board with c.m.u. backup	5,516	sfw	41.75	230,293		
Glass and glazing				0		
Punched Windows	1	ls	214,879	214,879		
5'-3 w x 3'-4 h Windows	83	ea	1,194.38	99,133		
10'-4 w x 2'-4 h Windows	60	ea	1,878.63	100,718		
6'-0 w x 5'-6 h Windows	1	ea	1,768.00	1,768		
3'-6 w x 7'-6 h Windows	4	ea	3,315.00	13,260		
			Total:	214,879		
Window Wall		<<none required>>		0		
Aluminum entry doors and frames	22	lvs	3,500	77,000		
Transoms	18	ea	402.50	7,245		
Sealants	3,306	sfw	1.00	3,306		
Winter weather heat/protection		<<assume not required>>		0		
Subtotal Glass and glazing	3,306	sfw	91.48	302,429		
Hollow metal doors and frames	8	lvs	1,500	12,000		
Transoms	6	ea	402.50	2,415		
Overhead doors and frames	3	ea	7,500	22,500		
Louvers	1	allow	5,000	5,000		
Entry Canopies				0		Main, PreSchool
Trim	150	lf	25.00	3,750		
Railing	80	lf	350.00	28,000		Main Entry
Columns	4	ea	1,500	6,000		
Brick Base	4	ea	1,600	6,400		
Soffit	1,403	sf	20.00	28,060		
Exterior wall clock	1	allow	2,500	2,500		
Temporary exterior wall	86,948	gsf	0.25	21,737		
Subtotal Building:	86,948	gsf	19.10	1,661,000		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Roofing & Waterproofing						
Total SFW	19,265	sfw	86.22			
EWR	0.22					
Total Exterior Wall	86,948	gsf	19.10	1,661,000		
Interior Finishes						
Building						
Finishes				0		
Interior Partitions				0		
Masonry				0		
8" CMU Wall	53,304	sfw	20.00	1,066,080		<<average height 12'>>
Classrooms		<<with above>>		0		
Safe Rooms		<<with above>>		0		
Corridors		<<with above>>		0		
Entry Ways		<<with above>>		0		
Gym		<<with above>>		0		
Drywall				0		
6" 18 ga High Impact GWB with STC Rating				0		
Library	4,000	sfw	13.50	54,000		
4" 20 ga w/ 5/8" High Impact GWB	3,744	sfw	11.70	43,805		at classrooms
Toilet Shaft Wall	3,300	sfw	10.40	34,320		classroom toilets
Column Enclosures	1	allow	72,000	72,000		
Patch & Match at Existing	29,980	gsf	2.00	59,960		
Subtotal Interior Partitions:	86,948	gsf	15.30	1,330,165		
Ceilings	82,118	sf		<<total ceilings>>	0	
ACT				0		
ACT-1	48,478	sf	4.00	193,912		School Zone FF, Humiguard 4,
ACT-3	1,500	sf	7.00	10,500		Ecophone Focus DG
ACT-4	2,144	sf	4.00	8,576		GWS Vinyl Stipple Finish
ACT-5	3,132	sf	7.00	21,924		Ceramaguard FF
Exp/ACT-2	18,092	sf	<< info only >>	0		
Paint Structure	18,092	sf	1.50	27,138		
ACT-2	9,600	sf	30.00	288,000		USG Wireworks 2' x2'
Drywall	2,907	sf	<< info only >>	0		
Drywall	2,907	sf	7.00	20,349		
Paint	2,907	sf	1.50	4,361		
Painted Structure	5,085	sf	1.50	7,628		Gym, Stage
Exposed Structure/Sound Baffles	4,424	sf		0		at Cafeteria
Paint Structure	4,424	sf	1.50	6,636		
4 - 0 Sound Baffles	1,200	sf	35.00	42,000		
Soffits	8,212	sf	12.00	98,542		5% of ceilings
Subtotal Ceilings:	86,948	gsf	8.39	729,565		
Wall finishes		sfw	<< info only >>	0		
Paint	140,248	sfw	1.25	175,308		
CT / PT	8,001	sfw	<< info only >>	0		Toilet Rooms
CT - Ceramic Tile	4,001	sfw	13.50	54,007		assume 50%
Paint	4,001	sfw	1.25	5,001		assume 50%
Subtotal Wall finishes:	86,948	gsf	2.89	234,315		
Floor finishes				0		
Flooring				0		
CPT-1 Carpet Tile	11,034	sf	5.00	55,170		
CPT-2 Broedloam	6,051	sf	4.50	27,230		Classrooms
CPT-2 Broedloam	2,907	sf	4.50	13,082		at Safe Rooms
Polished Concrete	51,805	sf	10.50	543,953		
Protection	51,805	sf	2.75	142,464		
Recycled Rubber	4,674	sf	<<with Sitework>>	0		Courtyards
Quarry Tile	2,144	sf	23.00	49,312		Kitchen
Ceramic Tile	2,625	sf	13.50	35,438		Toilets
Sealed Concrete	4,287	sf	1.75	7,502		Storage/ MEP Rooms
Vinyl Plank	3,914	sf	7.25	28,377		Gym
Paint Stage Floor	695	sf	2.00	1,390		
Stair Treads		<<none required>>		0		
Subtotal Flooring:	86,948	gsf	10.44	907,966		
Base				0		
Quarry Tile	262	lf	6.00	1,572		
Ceramic Tile	889	lf	11.00	9,779		Toilets
Vinyl				0		
VB-1- 6"	10,528	lf	3.00	31,584		
VB-2- 4"	2,680	lf	2.50	6,700		
Wood	105	lf	25.00	2,625		Stage
Subtotal Base:	86,948	gsf	0.60	52,335		
Subtotal Floor finishes:	86,948	gsf	11.04	950,301		
Doors, frames and hardware				0		
Frames				0		
Single Door Frame	99	ea	300.00	29,700		
Double Door Frame	21	ea	350.00	7,350		
Doors				0		
F.R. Hollow Metal Doors	28	lvs	350.00	9,800		at corridors
Single Wood Door	109	lvs	400.00	43,600		
Lites	60	lvs	35.00	2,100		
Bullet Resistant Film	40	lvs	400.00	16,000		at classrooms
Acoustical Doors	2	lvs	5,000	10,000		Music Rm
Hardware Allowance	102	lvs	450.00	45,900		
Premium Allowance	1	allow	25,000	25,000		Lights, Electric Hdwr, etc
Classroom Hardware		<<with Security>>		0		
Installation (Frame, Door & Hdware)	137	lvs	450.00	61,650		
Paint HM Frames	120	lvs	100.00	12,000		
Paint HM Doors	28	lvs	300.00	8,400		
Sliding Doors	40	lvs	1,500	60,000		Safe Rooms
Aluminum Doors	4	lvs	3,000	12,000		
Subtotal Doors, frames and hardware:	86,948	gsf	3.95	343,500		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
HM Interior Lites					0	
Main Office	64	sfw	35.00		2,240	assume 4' high
Security Transaction Window	20	sfw	60.00		1,200	
Cafeteria	1	allow	7,500		7,500	assume 4' high
Security	12	sfw	450.00		5,400	Bulletproof
Subtotal HM Interior Lites:	7,968	gsf	2.05	16,349		
Subtotal Finishes:	86,948	gsf	41.57	3,614,185		
General Requirements						
Temporary Facilities	86,948	gsf	1.00		86,948	
Temporary Utilities	86,948	gsf	1.00		86,948	
Daily Cleaning	86,948	gsf	2.75		239,107	
Rubbish Removal	86,948	gsf	0.75		65,211	
Final Cleaning	86,948	gsf	0.50		43,474	
Protection & Safety	86,948	gsf	1.00		86,948	
Subtotal Building:	86,948	gsf	48.57	4,223,000		
Total Interior Finishes	86,948	gsf	48.57	4,223,000		

Special Requirements

Millwork

Wood Trim						
Window Trim	2,010	lf	20.00		40,191	
Window Sills	1,086	lf	75.00		81,431	
Subtotal Wood Trim:	86,948	gsf	1.40	121,622		

Special Requirements

Pre-School/ Kindergarten	11	ea	29,600.00		325,600	
Pre-School/ Kindergarten						
Cabinetry						
Plam Base Cabinets	12	lf	250.00	3,000		
Solid Surface Countertop	12	lf	187.50	2,250		
Sink	<<with Plumbing>>					
Upper Cabinets	12	lf	175.00	2,100		
Cubbies	<<with F, F & E>>			0		
Bookcases	<<with F, F & E>>			0		
Plam Built-ins for Storage	30	lf	250.00	7,500		assume average length
Markerboards at Safe Room	57	sf	20.00	1,140		
Markerboards	64	sf	20.00	1,280		16' x 4' Markerboard
Tackboards	72	sf	20.00	1,440		Three - 6' x 4' Tackboards
Projection Screens	1	ea	400.00	400		Manual
Smartboard	1	ea	5,000	5,000		
Drinking Fountain	<<with Plumbing>>			0		
Undercounter Refrigerator	1	ea	350.00	350		
Desks and Chairs	<<with F, F & E>>			0		
Storage Room				0		
Wall Cabinets	10	lf	400.00	4,000		4'0 to 8'0 AFF
Panic Button & Communications	<<with Electrical>>			0		
Toilet Room						
Mirror	1	ea	125.00	125		
TP Holders	1	ea	65.00	65		
Paper Towel Dispenser	1	ea	150.00	150		
Electric Hand Dryer	1	ea	250.00	250		
Soap Dispenser	1	ea	50.00	50		
ADA Grab Bar Sets	1	ea	500.00	500		
Subtotal Pre-School/ Kindergarten:				29,600		

Grades 1 & 2

Grades 1 & 2	12	ea	28,600.00		319,200	
Grades 1 & 2						
Cabinetry						
Plam Base Cabinets	12	lf	250.00	3,000		
Solid Surface Countertop	12	lf	187.50	2,250		
Sink at First Grade Rooms	<<with Plumbing>>					sink at first grade
Upper Cabinets	12	lf	175.00	2,100		
Cubbies	<<with F, F & E>>			0		
Bookcases	<<with F, F & E>>			0		
Plam Built-ins for Storage	18	lf	250.00	4,500		assume average length
Undercounter Refrigerator	1	ea	350.00	350		
Desks and Chairs	<<with F, F & E>>			0		
Markerboards at Safe Room	57	sf	20.00	1,140		
Markerboards	64	sf	20.00	1,280		16' x 4' Markerboard
Tackboards	72	sf	20.00	1,440		Three - 6' x 4' Tackboards
Projection Screens	1	ea	400.00	400		Manual
Smartboard	1	ea	5,000	5,000		
Drinking Fountain	<<with Plumbing>>			0		
Storage Room				0		
Wall Cabinets	10	lf	400.00	4,000		4'0 to 8'0 AFF
Panic Button & Communications	<<with Electrical>>			0		
Toilet Room						
Mirror	1	ea	125.00	125		
TP Holders	1	ea	65.00	65		
Paper Towel Dispenser	1	ea	150.00	150		
Electric Hand Dryer	1	ea	250.00	250		
Soap Dispenser	1	ea	50.00	50		
ADA Grab Bar Sets	1	ea	500.00	500		
Subtotal Grades 1 & 2:				28,600		

Grades 3 - 4

Grades 3 - 4	12	ea	12,260.00		147,120	
Grades 3 - 4						
Cabinetry						
Plam Base Cabinets	0	lf	250.00	0		
Solid Surface Countertop	0	lf	187.50	0		
Upper Cabinets	0	lf	175.00	0		
Cubbies	<<with F, F & E>>			0		
Bookcases	<<with F, F & E>>			0		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Plam Built-ins for Storage	16	lf	250.00	4,000		assume average length
Desks and Chairs	<<with F, F & E>>			0		
Markerboards at Safe Room	57	sf	20.00	1,140		
Markerboards	64	sf	20.00	1,280		16' x 4' Markerboard
Tackboards	72	sf	20.00	1,440		Three - 6' x 4' Tackboards
Projection Screens	1	ea	400.00	400		Manual
Smartboard	<<with F, F & E>>			0		
Drinking Fountain	<<none required>>			0		
Storage Room				0		
Wall Cabinets	10	lf	400.00	4,000		4'0 to 8'0 AFF
Panic Button & Communications	<<with Electrical>>			0		
Toilet Room	<<none required>>			0		
Subtotal Grades 3 - 4:				12,260		
Storage Room/Supplies/Custodial Room	5	ea	3,000.00		15,000	
Storage Room						
Shelving	1	allow	3,000	3,000		
Art Classroom	1	allow	36,240.00		36,240	
Art Classroom						
Cabinetry						
Base Cabinets	40	lf	250.00	10,000		
Solid Surface Countertop	40	lf	187.50	7,500		
Sinks	<<with Plumbing>>			0		
Upper Cabinets	40	lf	175.00	7,000		
Markerboards	64	sf	30.00	1,920		16' x 4' Markerboard
Tackboards	96	sf	20.00	1,920		Four - 6' x 4' Tackboards
Projection Screens	1	ea	400.00	400		Manual
Smartboard	<<with F, F & E>>			0		
Kin	1	ea	5,000	5,000		
Kin Room Storage	1	ls	2,500	2,500		
Subtotal Art Classroom:				36,240		
Music Classroom	1	ea	30,687.50		30,688	
Music Classroom						
Cabinetry				0		
Base Cabinets	20	lf	250.00	5,000		
Solid Surface Countertop	20	lf	187.50	3,750		
Upper Cabinets	20	lf	175.00	3,500		
Closet Shelves	75	lf	25.00	1,875		
Tackboard	32	sfw	20.00	640		8' x 4'
Markerboard	48	sfw	20.00	960		12' x 4'
Smartboard	<<with F, F & E>>			0		
Acoustical Panels	599	sfw	25.00	14,963		50% of walls
Music Stands	<<with F, F & E>>			0		
Chairs	<<with F, F & E>>			0		
Piano	<<with F, F & E>>			0		
Hi-Fi Equip & Speakers	<<with F, F & E>>			0		
Instrument Storage Units	<<with F, F & E>>			0		
Subtotal Music Classroom:				30,688		
Music Practice Room	1	ea	5,175.00		5,175	
Music Practice Room						
Cabinetry				0		
Base Cabinets	0	lf	250.00	0		
Solid Surface Countertop	0	lf	187.50	0		
Upper Cabinets	0	lf	175.00	0		
Acoustical Panels	207	sfw	25.00	5,175		50% of walls
Music Stands & Chairs	<<F, F & E>>			0		
Subtotal Music Practice Room:				5,175		
Special Education Room	1	ea	24,235.00		24,235	
Special Education Room						
Cabinetry						
Base Cabinets	14	lf	250.00	3,500		
Solid Surface Countertop	14	lf	187.50	2,625		
Upper Cabinets	14	lf	175.00	2,450		
Tall Cabinets	8	lf	500.00	4,000		
Markerboards	32	sf	20.00	640		8' x 4' Markerboard
Markerboards at Safe Room	57	sf	20.00	1,140		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Projection Screens	1	ea	400.00	400		Manual
Smartboard	1	ea	5,000	5,000		
Storage Room				0		
Wall Cabinets	10	lf	400.00	4,000		4'0 to 8'0 AFF
Panic Button & Communications	<<with Electrical>>			0		
Subtotal Special Education Room:				24,235		
Small Group Instruction Room	1	ea	19,095.00		19,095	
Small Group Instruction Room						
Cabinetry						
Base Cabinets	14	lf	250.00	3,500		
Solid Surface Countertop	14	lf	187.50	2,625		
Upper Cabinets	14	lf	175.00	2,450		
Tall Cabinets	8	lf	500.00	4,000		
Markerboards	32	sf	20.00	640		8' x 4' Markerboard
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Projection Screens	1	ea	400.00	400		Manual
Smartboard	1	ea	5,000	5,000		
Subtotal Small Group Instruction Room:				19,095		
IT Room	1	ea	1,000.00		1,000	
IT Room						
Shelving	1	allow	1,000	1,000		
Remedial Room/Language Arts	3	ea	11,480.00		34,440	

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Remedial Room/Language Arts						
Cabinetry						
Base Cabinets	8	lf	250.00	2,000		
Solid Surface Countertop	8	lf	187.50	1,500		
Upper Cabinets	8	lf	175.00	1,400		
Markerboards	32	sf	30.00	960		8' x 4' Markerboard
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Markerboards at Safe Room	57	sf	20.00	1,140		
Smartboard	<<with F, F & E>>			0		
Storage Room				0		
Wall Cabinets	10	lf	400.00	4,000		4'0 to 8'0 AFF
Panic Button & Communications	<<with Electrical>>			0		
Subtotal Remedial Room/Language Arts:				11,480		
Copy/Storage Room	2	ea	7,350.00		14,700	
Copy/Storage Room						
Cabinetry						
Base Cabinets	12	lf	250.00	3,000		
Solid Surface Countertop	12	lf	187.50	2,250		
Upper Cabinets	12	lf	175.00	2,100		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Copier	<< with F, F & E>>			0		
Subtotal Copy/Storage Room:				7,350		
OT/PT Room	1	ea	19,840.00		19,840	
OT/PT Room						
Cabinetry						
Base Cabinets	24	lf	250.00	6,000		
Solid Surface Countertop	24	lf	187.50	4,500		
Upper Cabinets	24	lf	175.00	4,200		
Markerboards at Safe Room	57	sf	20.00	1,140		
Storage Room				0		
Wall Cabinets	10	lf	400.00	4,000		4'0 to 8'0 AFF
Panic Button & Communications	<<with Electrical>>			0		
Subtotal OT/PT Room:				19,840		
Girls Toilet Rooms	4	ea	13,325.00		53,300	
Girls Toilet Rooms						
Vanity	<<assume not required>>					
Toilet Partitions						
Standard	6	ea	1,350	8,100		
H/C	1	ea	1,900	1,900		
Mirror	5	ea	175.00	875		
TP Holders	5	ea	65.00	325		Mirror
Towel Dispensers	5	ea	150.00	750		TP Holders
Soap Dispensers	5	ea	50.00	250		Paper Towel Dispenser
ADA Grab Bar Sets	1	ea	500.00	500		Electric Hand Dryer
Sanitary Napkin Dispenser	1	ea	125.00	125		Soap Dispenser
Electric Hand Dryer	2	ea	250.00	500		ADA Grab Bar Sets
Subtotal Girls Toilet Rooms:				13,325		
Boys Toilet Rooms	4	ea	10,475.00		41,900	
Boys Toilet Rooms						
Vanity	<<assume not required>>					
Toilet Partitions						
Standard	3	ea	1,350	4,050		
H/C	1	ea	1,900	1,900		
Urinal Screens	3	ea	400	1,200		
Mirror	5	ea	175.00	875		
TP Holders	5	ea	65.00	325		
Towel Dispensers	5	ea	150.00	750		
Soap Dispensers	5	ea	50.00	250		
ADA Grab Bar Sets	1	ea	500.00	500		
Sanitary Napkin Dispenser	1	ea	125.00	125		
Electric Hand Dryer	2	ea	250.00	500		
Subtotal Boys Toilet Rooms:				10,475		
Toilet Rooms	8	ea	940.00		7,520	
Toilet Rooms						
Vanity	<<assume not required>>					
Mirror	1	ea	175.00	175		
TP Holders	1	ea	65.00	65		
Towel Dispensers	1	ea	150.00	150		
Soap Dispensers	1	ea	50.00	50		
ADA Grab Bar Sets	1	ea	500.00	500		
Subtotal Toilet Rooms:				940		
Closets	1	allow	3,000		3,000	
Closets						
Closet Rod	1	allow	3,000	3,000		
Closet Shelf	<<with above>>			0		
Subtotal Closets:				3,000		
Janitor Closet	1	allow	1,500		1,500	
Janitor Closet						
Shelving	1	allow	1,500	1,500		
Mop Holder	<<with above>>			0		
Subtotal Janitor Closet:				1,500		
Library	1	ea	221,455.00		221,455	
Library						
Circulation Desk	44	lf	650.00	28,600		
Computer Stations	75	lf	200.00	15,000		
Cabinetry						
Base Cabinets	14	lf	250.00	3,500		
Solid Surface Countertop	14	lf	187.50	2,625		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Upper Cabinets						
Upper Cabinets	14	lf	175.00	2,450		
Low Wall Shelving	20	lf	275.00	5,500		
4' Display Cases	4	ea	2,500	10,000		
Markerboards	32	sf	30.00	960		8' x 4' Markerboard
Tackboards	96	sf	20.00	1,920		Four - 6' x 4' Tackboards
Smartboard	1	ea	5,000	5,000		
Projection Screens	1	ea	400.00	400		Manual
Desks and Chairs	1	allow	15,500	15,500		
Library Shelving / Stacks	200	lf	650.00	130,000		
Subtotal Library:				221,455		
Work Area	1	ea	7,965.00		7,965	
Work Area						
Base Cabinets	10	lf	250.00	2,500		
Solid Surface Countertop	10	lf	187.50	1,875		
Upper Cabinets	10	lf	175.00	1,750		
Markerboards	40	sf	30.00	1,200		10' x 4' Markerboard
Tackboards	32	sf	20.00	640		2 - 4' x 4' Tackboards
Subtotal Work Area:				7,965		
Teachers Project Area	1	ea	6,445.00		6,445	
Teachers Project Area						
Cabinetry						
Base Cabinets	10	lf	250.00	2,500		
Solid Surface Countertop	10	lf	187.50	1,875		
Upper Cabinets	10	lf	175.00	1,750		
Markerboards	<< assume none required >>			0		
Tackboards	16	sf	20.00	320		1 - 4' x 4' Tackboards
Subtotal Teachers Project Area:				6,445		
Teacher's Lounge	1	ea	8,445.00		8,445	
Teacher's Lounge						
Cabinetry						
Base Cabinets	10	lf	250.00	2,500		
Solid Surface Countertop	10	lf	187.50	1,875		
Sink	<<with Plumbing>>			0		
Upper Cabinets	10	lf	175.00	1,750		
Markerboards	<< assume none required >>			0		
Tackboards	16	sf	20.00	320		1 - 4' x 4' Tackboards
Appliances	1	allow	2,000.00	2,000		
Refrigerator	<<with above>>			0		
Microwave	<<with above>>			0		
Oven	<<with above>>			0		
Tables and Chairs	<< with F, F & E>>			0		
Subtotal Teacher's Lounge:				8,445		
Gymnasium	1	ea	138,640.00		138,640	
Gymnasium						
Gym Divider Curtain	<< assume not required >>			0		
Wall Safety Pads	1,280	sfw	18.00	22,880		
Basketball Backstop/Backboard	6	ea	7,500	45,000		Fold Up
Retractable Bleachers	1	ls	30,000	30,000		200 seats
Scoreboard	<< with F, F & E>>			0		
Tackboards	48	sf	20.00	960		Two - 6' x 4' Tackboards
Acoustical Treatment	1,800	sf	25.00	45,000		on walls
Subtotal Gymnasium:				138,640		
Stage	1	ea	76,950.00		76,950	
Stage						
Stage Curtain	1	allow	20,000	20,000		
Stage Rigging	1	allow	15,000	15,000		
Performance Platform	1	allow	31,950	31,950		
Stairs	<<with above>>			0		
Wood Flooring	<<with Interior Finishes>>			0		
Trim	<<with above>>			0		
Doors Below	<<with above>>			0		
Acoustical Treatment	1	allow	10,000	10,000		
Lift	<<with Vertical Transportation>>			0		
Subtotal :				76,950		
Back Stage	1	ea	3,000.00		3,000	
Back Stage						
Shelving	1	allow	3,000	3,000		
Cafeteria	1	ea	1,920.00		1,920	
Cafeteria						
Cabinetry	<< assume none required >>			0		
Markerboards	<< assume none required >>			0		
Tackboards	96	sf	20.00	1,920		Four - 6' x 4' Tackboards
Tables and Chairs	<< with F, F & E>>			0		
Subtotal Cafeteria:				1,920		
Staff Dining	<<none shown>>				0	
Kitchen	1	ea	200,480.00		200,480	
Kitchen						
Cabinetry	<< assume none required >>			0		
Markerboards	<< assume none required >>			0		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Food Service Equipment	1	allow	200,000	200,000		
Cooler / Freezer	<<with allowance>>			0		
Serving Counter	<<with allowance>>			0		
Kitchen Storage	<<with allowance>>			0		
Shelving	<<with allowance>>			0		
Subtotal Kitchen:				200,480		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Nurse's Office	1	ea	5,220.00		5,220	
Nurse's Office						
Cabinetry				0		
Base Cabinets	8	lf	250.00	2,000		
Solid Surface Countertop	8	lf	187.50	1,500		
Sink	<<with Plumbing>>					
Upper Cabinets	8	lf	175.00	1,400		
Markerboards	<< assume none required >>			0		
Tackboards	15	sf	20.00	300		4' x 4' Tackboard
Cubicle Curtain & Track	<< with F, F & E>>			0		
Beds	<< with F, F & E>>			0		
Desk and Chair	<< with F, F & E>>			0		
Medicine Cabinet	<< with F, F & E>>			0		
Subtotal Nurse's Office:				5,220		
Conference Room	1	ea	6,260.00		6,260	
Conference Room						
Cabinetry				0		
Base Cabinets	8	lf	250.00	2,000		
Solid Surface Countertop	8	lf	187.50	1,500		
Upper Cabinets	8	lf	175.00	1,400		
Markerboards	24	sf	20.00	480		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Projection Screen	1	ea	400.00	400		
Table and Chairs	<< with F, F & E>>			0		
Subtotal Conference Room:				6,260		
Security Room	1	ea	11,505.00		11,505	
Security Room						
Cabinetry				0		
Base Cabinets	6	lf	250.00	1,500		
Solid Surface Countertop	6	lf	187.50	1,125		
Solid Surface Countertop	24	lf	350.00	8,400		
Brackets	<<with above>>			0		
Upper Cabinets	<< assume none required >>			0		
Markerboards	<< assume none required >>			0		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Subtotal Security Room:				11,505		
General Office / Reception	1	ea	32,980.00		32,980	
General Office / Reception						
Cabinetry				0		
Base Cabinets	10	lf	250.00	2,500		
Solid Surface Countertop	16	lf	187.50	3,000		
Transaction Shelf	15	lf	125.00	2,000		
Additional Millwork Requirements	1	allow	25,000	25,000		Mailboxes, work counters
Markerboards	<< assume none required >>			0		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Desks & chairs	<< with F, F & E>>			0		
Files	<< with F, F & E>>			0		
Subtotal General Office / Reception:				32,980		
Admin / Guidance Offices/Offices	8	ea	1,200.00		9,600	
Admin / Guidance Offices/Offices						
Cabinetry	<< assume none required >>			0		
Adjustable Wall Shelving	1	ls	1,200.00	1,200		
Markerboards	<< assume none required >>			0		
Tackboards	<< assume none required >>			0		
Projection Screens	<< assume none required >>			0		
Desk and Chair	<< with F, F & E>>			0		
Subtotal Admin / Guidance Offices/Offices:				1,200		
Fire Extinguishers/Cabinets	1	allow	5,000		5,000	
Signage	86,948	gsf	0.30	26,084		
Exterior School Sign	1	allow	2,500		2,500	
Cornerstone Plaque	1	allow	750.00		750	
Flagpole	1	ea	6,500		6,500	
Appliances	1	allow	5,000		5,000	
Window Treatment				0		
Roller Shades	3,306	sf	4.50	14,876		
Motorized shades at classroom doors	40	ea	400.00	16,000		
Misc Specialties	86,948	gsf	0.25	21,737		
Subtotal Special Requirements:	86,948	gsf	22.19	1,929,000		
Total Special Requirements	86,948	gsf	23.58	2,050,000		
Vert. Transportation						
Building						
2-stop Hydraulic Elevator	<<assume not required>>			0		
Stage Lift	1	ea	15,000	15,000		
Subtotal Building:	86,948	gsf	0.17	15,000		
Total Vert. Transportation	86,948	gsf	0.17	15,000		
Plumbing						
Building						
Water service	86,948	gsf	0.25	22,606		
30,000 gal. Holding Tank	<<with Sitework>>			0		
Domestic water system				0		
Domestic Hot Water Equipment	86,948	gsf	0.50	43,474		
Hot water heating and recirculation	86,948	gsf	1.18	102,599		
Cold water piping	86,948	gsf	1.43	124,336		
Fixtures	217	ea	1,250	271,250		
Subtotal Domestic water system	86,948	gsf	6.49	564,205		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Sanitary Piping					0	
Waste piping	86,948	gsf	1.23	107,219		
Vent piping	86,948	gsf	0.51	44,234		
Subtotal Sanitary Piping	86,948	gsf	1.74	151,453		
Cost per fixture	217	ea	3,289.24	715,717		
Kitchen equipment hook ups	86,948	ls	0.20	17,390		
Storm system	86,948	gsf	2.00	173,896		
Gas system	86,948	gsf	1.00	86,948		
Fire Stopping	86,948	gsf	0.30	26,084		
Temporary plumbing	86,948	gsf	0.30	26,084		
Commissioning Assistance	80	hrs	85.00	6,800		
Subtotal Building:	86,948	gsf	12.11	1,053,000		
Total Plumbing	86,948	gsf	12.11	1,053,000		
Fire Protection						
Building						
Central Plant						
Incoming service	86,948	gsf	2.50	217,370		
Fire Pump and Controller	<<with above>>			0		
Jockey Pump and Controller	<<with above>>			0		
Fire Department Connections	<<with above>>			0		
Fire Hose Cabinets	<<with above>>			0		
Test Header	<<with above>>			0		
Check Valves Riser Assemblies	<<with above>>			0		
Sprinkler Control Assemblies	<<with above>>			0		
Water Flow and Tamper Alarms	<<with Electrical>>			0		
30,000 gal Holding Tank	<<with Site work>>			0		
Subtotal Central Plant:	86,948	gsf	2.50	217,370		
Wet Sprinkler heads and Piping	869	ea	250.00	217,370		assume 1 per 100 sf
Subtotal Building:	86,948	gsf	5.00	435,000		
Total Fire Protection	86,948	gsf	5.00	435,000		
HVAC & Controls						
Building						<<from Greenleaves Energy Solutions>>
Classrooms						
3 ton WSHPs	36	ea	6,000.00	216,000		
Ductwork, Diffusers & Grilles	36	ea	3,500.00	126,000		
DOAS Unit	6	ea	32,500.00	195,000		
DOAS Ductwork	6	ea	25,000.00	150,000		
Radiant Flooring	29,430	sf	6.00	176,580		
Other Classrooms Rooms						
5 ton WSHPs	4	ea	7,000.00	28,000		
Ductwork, Diffusers & Grilles	4	ea	4,000.00	16,000		
DOAS Unit	2	ea	27,500.00	55,000		
DOAS Ductwork	2	ea	15,000.00	30,000		
Radiant Flooring	4,200	sf	6.00	25,200		
Gymnasium						
10 ton WSHPs	2	ea	11,000.00	22,000		
Ductwork, Diffusers & Grilles	2	ea	15,000.00	30,000		
DOAS Unit	1	ea	32,500.00	32,500		
DOAS Ductwork	1	ea	10,000.00	10,000		
Radiant Flooring	0	sf	6.00	0		
Library						
5 ton WSHPs	2	ea	7,000.00	14,000		
Ductwork, Diffusers & Grilles	2	ea	7,000.00	14,000		
DOAS Unit	1	ea	40,000.00	40,000		
DOAS Ductwork	2	ea	10,000.00	20,000		
Radiant Flooring	5,091	sf	6.00	30,546		
Cafeteria						
15 ton WSHPs	2	ea	16,000.00	32,000		
Ductwork, Diffusers & Grilles	2	ea	10,000.00	20,000		
DOAS Unit	1	ea	80,000.00	80,000		
DOAS Ductwork	1	ea	10,000.00	10,000		
Radiant Flooring	0	sf	6.00	0		
Office Area						
2 ton WSHPs	2	ea	7,000.00	14,000		
Ductwork, Diffusers & Grilles	2	ea	4,000.00	8,000		
DOAS Unit	1	ea	20,000.00	20,000		
DOAS Ductwork	2	ea	12,500.00	25,000		
Radiant Flooring	2,500	sf	6.00	15,000		
Misc Office Area						
2 ton WSHPs	4	ea	7,000.00	28,000		
Ductwork, Diffusers & Grilles	4	ea	4,000.00	16,000		
DOAS Unit	1	ea	20,000.00	20,000		
DOAS Ductwork	1	ea	12,500.00	12,500		
Radiant Flooring	5,760	sf	6.00	34,560		
Kitchen & Misc Spaces						
2 ton WSHPs	8	ea	7,000.00	56,000		
Ductwork, Diffusers & Grilles	8	ea	4,000.00	32,000		
Sidewalks						
Radiant Heating	13,000	sf	5.00	65,000		
Central Utilities						
Geothermal Distribution Piping	67,000	sf	2.50	217,500		
Radiant Flooring Distribution Piping	67,000	sf	2.50	217,500		
GHX	14,400	sf	17.00	244,800		
70 ton Closed Circuit Cooling Tower	1	ea	61,000.00	61,000		
40 ton WWHPs	3	ea	35,000.00	105,000		
Greenleaves Geomodule Controls	1	ea	78,001.00	78,001		
Controls	87,000	sf	1.75	152,250		
Pumps, Air Control, Etc.	1	allow	55,000.00	55,000		
Antifreeze for GHX	1	allow	6,000.00	6,000		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Subtotal :	86,948	gsf	32.85	2,856,000		
Kitchen Exhaust Fan	1	allow	15,000.00		15,000	including ductwork
Vibration and seismic	86,948	gsf	0.75		65,211	
Fire Stopping	86,948	gsf	0.30		26,084	
Temperature controls	<<with above>>				0	
Indoor Air Quality Monitoring - All	1	ls	200,000		200,000	
Testing and balancing	86,948	gsf	0.75		65,211	
Temporary heating and cooling	86,948	gsf	2.50		217,370	
Temporary Units	<<with above>>				0	
Installation/maintenance	<<with above>>				0	
Commissioning Assistance	140	hrs	95.00		13,300	
Subtotal Building:	86,948	gsf	39.77	3,458,000		
Total HVAC & Controls	86,948	gsf	39.77	3,458,000		

RENOVATION OF EXISTING BUILDING

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Electrical						
Building						
Service entrance	86,948	gsf	0.75		65,211	
Secondary distribution	86,948	gsf	2.45		213,023	
Equipment connections	86,948	gsf	1.75		152,159	
Emergency power	86,948	gsf	2.00		173,896	
250 kw Generator	<<with Sitework>>				0	
Fitout					0	
Power outlets and wiring	86,948	gsf	1.65		143,464	
Lighting	86,948	gsf	6.00		521,888	
Classroom, Gym, Cafeteria	<<with skylights>>				0	
Fire alarm	86,948	gsf	2.80		243,454	
Special Sound Systems	86,948	gsf	0.40		34,779	
Telephone and data	86,948	gsf	1.80		156,506	
Audio/Visual	86,948	gsf	1.20		104,338	
Security					0	
Security System	1	ls	8,126		8,126	United Alarm Quote
Video Surveillance System	1	ls	64,726		64,726	United Alarm Quote
Panic Buttons System	1	ls	17,126		17,126	United Alarm Quote
Safe Room Communication System	1	ls	53,526		53,526	United Alarm Quote
Access Control System	1	ls	89,300		89,300	United Alarm Quote
Classroom Door Hardware	<<with above>>				0	
Adjust for additional safe rms, ext doors	1	allow	15,000		15,000	
Master Clock	86,948	gsf	2.55	232,804		
Public Address System	86,948	gsf	0.40		34,779	
Subtotal Fitout	86,948	gsf	17.50	1,521,592		
Grounding System	86,948	gsf	0.35		30,432	
Lightning Protection	86,948	gsf	0.35		30,432	
Kitchen equipment hook ups	86,948	gsf	0.20		17,390	
Fire Stopping	86,948	gsf	0.30		26,084	
Temporary power	86,948	gsf	0.30		26,084	
Commissioning Assistance	86,948	gsf	0.20		17,390	
Subtotal Building:	86,948	gsf	26.15	2,274,000		
Total Electrical	86,948	gsf	26.14	2,273,000		
Sitework						
						<<separate>>
Total Sitework	86,948	gsf	0.00	0		
Off-Site Work						
						<<separate>>
Subtotal Direct Work	86,948	gsf	237.83	20,679,000		
Escalation	20,679,000	\$\$s	5.00%		1,034,000	
Design Contingency	21,713,000	\$\$s	10.00%		2,171,000	
Construction Contingency	23,884,000	\$\$s	5.00%		1,194,000	
Construction Managers Services	25,078,000	\$\$s	10.00%		2,508,000	
State Permit Fee	27,586,000	\$\$s	0.026%		7,000	
TOTAL	86,948	gsf	317.35	27,593,000		

Sandy Hook Elementary School
Newtown, CT

Site 1 - Dickinson Drive
Renovation

SITEWORK

	Quantity	Unit	Unit Price	Subtotal	Total
ON SITE CONSTRUCTION					
SURVEY AND LAYOUT					
OFFICE FILE PREP	30	HR	90.41	2,712	\$25,468
FIELD LAYOUT	120	HR	189.63	22,756	
SITE REMOVALS					
REMOVE BITUMINOUS PAVING	140000	SF	0.12	16,800	\$104,719
BITUMINOUS CURB	7500	LF	0.24	1,800	
REMOVE LIGHT POLE	10	EA	91.73	917	
REMOVE FENCE	3000	LF	2.55	7,650	
REMOVE CONCRETE PAVING	15000	SF	0.52	7,800	
REMOVE SIGN	25	EA	45.86	1,147	
REMOVE STORM PIPING	3000	LF	5.61	16,830	
REMOVE SANITARY PIPING	500	LF	5.61	2,805	
REMOVE WATER PIPING	500	LF	5.61	2,805	
REMOVE STORM STRUCTURE	20	EA	435.12	8,702	
SAW CUTTING	1000	LF	1.83	1,830	
CLEAR AND GRUB	10	DY	3,563.28	35,633	
E & S					
CONSTRUCTION ENTRANCE	6000	SF	1.39	8,340	\$86,838
SILT FENCE	5000	LF	2.66	13,300	
HAY BALES	3000	LF	5.75	17,250	
INLET PROTECTION	20	EA	136.05	2,721	
EROSION CONTROL BLANKET	75000	SF	0.27	20,250	
SWEEPING AND DUST CONTROL	52	WK	346.92	18,040	
MAINTENANCE	52	WK	133.40	6,937	
MASS EARTH WORK					
STRIP TOPSOIL	3500	CY	2.43	8,505	\$1,693,624
STRIP AND STOCKPILE RECLAIMED ROADWAY CUTS	2600	CY	2.90	7,540	
CUTS	99500	CY	2.90	288,550	
FILLS	4200	CY	3.87	16,254	
MASS ROCK BLASTING ALLOWANCE (60% OF TOTAL CUTS)	59700	CY	5.78	345,066	
ADJUST TO 30% OF TOTAL CUTS	-29850	CY	5.78	(172,533)	
TRENCH ROCK BLASTING ALLOWANCE	2000	CY	12.12	24,240	
EXPORT AND DISPOSAL	95300	CY	12.34	1,176,002	
STORM					
MAN HOLE	1	EA	2,824.61	2,825	\$214,875
CATCH BASINS	8	EA	2,597.93	20,783	
DOUBLE CATCH BASIN	4	EA	4,703.27	18,813	
WATER QUALITY UNIT	1	EA	27,022.64	27,023	
6" UNDER DRAIN	600	LF	29.03	17,418	
15" HDPE	600	LF	32.98	19,788	
24" HDPE	920	LF	44.28	40,738	
15" HOOD	8	EA	507.15	4,057	
24" HOOD	4	EA	507.15	2,029	
6" CLEAN OUT	6	EA	341.78	2,051	
BEDDING	471	CY	19.85	9,352	
ROOF LEADER CONNECTIONS	1	ALLOW	10,000	10,000	
STORM DETENTION POND (COMPLETE)	1	LS	40,000	40,000	
SANITARY SEWER					
8" PVC SCH- 35	950	LF	37.26	35,397	\$65,931
TIE INTO EXISTING (CORE AND RECONSTRUCT INVERT)	1	EA	1,504.77	1,505	
MANHOLE	4	EA	3,254.58	13,018	
3000 GALLON GREASE TRAP	1	EA	5,768.28	5,768	
STONE BEDDING	211	CY	28.67	6,053	
SAND COVER	211	CY	19.85	4,191	
WATER					
10" DIP CL-54	1100	LF	81.33	89,463	\$134,919
6" DIP CL-54	150	LF	58.48	8,772	
2" COPPER SERVICE	50	LF	40.73	2,037	
2" SHUT OFF	2	EA	446.51	893	
6" GATE VALVE	4	EA	1,125.65	4,503	
10" GATE VALVE	2	EA	2,401.25	4,803	
10" BENDS	6	EA	479.59	2,878	
10" TEE	4	EA	562.28	2,249	
6" HYDRANT	2	EA	2,734.94	5,470	
THRUST BLOCKS	18	EA	226.38	4,075	

Sandy Hook Elementary School
Newtown, CT

Site 1 - Dickinson Drive
Renovation

SITEWORK

	Quantity	Unit	Unit Price	Subtotal	Total
10" SOLID SLEEVE	1	EA	560.07	560	
8" BLOW OFF	1	EA	218.66	219	
2" TAP	3	EA	301.35	904	
2" IRRIGATION PIT	1	EA	1,171.80	1,172	
TESTING	1250	LF	2.48	3,100	
SAND COVER	193	CY	19.85	3,823	
GAS SERVICES					
EXCAVATION, BEDDING & BACKFILL PIPING	860	LF	30.00	25,800	\$25,800
<<BY UTILITY COMPANY>>					
ELECTRIC					
TRENCHING	300	LF	9.42	2,826	\$132,309
BOLLARDS @ TRANSFORMER PAD	12	EA	546.84	6,562	
TRANSFORMER PAD	1	EA	2,856.21	2,856	
CONCRETE ENCASEMENT	10	CY	129.80	1,298	
PULL BOXES	1	EA	766.61	767	
ELECTRICAL CONDUIT (4 - 4")	300	LF	60.00	18,000	
GENERATOR	1	LS	100,000	100,000	
SITE LIGHTING					
TRENCHING	2000	LF	10.01	20,020	\$103,095
CONDUIT AND WIRING	2000	LF	6.00	12,000	
POLES WIRING AND FIXTURES	17	EA	3,520.00	59,840	
POLE BASES	17	EA	660.88	11,235	
BUILDING PAD READY					
OVER EXCAVATION AND REPLACEMENT IN SOUTHWEST CORNER OF BUILDING	2000	CY	34.48	68,960	\$124,159
INSTALL 12" STONE BASE TO 6" BELOW FINISH GRADE	1700	CY	32.47	55,199	
RETAINING WALL A					
EXCAVATION	350	LF	19.70	6,895	\$163,338
INSTALL GRAVITY BLOCK WALL STRUCTURAL BACKFILL	4500	SF	28.64	128,880	
RETAINING WALL B					
EXCAVATION	130	LF	19.70	2,561	\$46,188
INSTALL GRAVITY BLOCK WALL STRUCTURAL BACKFILL	1300	SF	28.64	37,232	
RETAINING WALL C					
EXCAVATION	150	LF	19.70	2,955	\$23,111
INSTALL BLOCK WALL WITH GEO GRID STRUCTURAL BACKFILL	900	SF	18.72	16,848	
PAVING PREPARATION					
SUB GRADE	140000	SF	0.48	67,200	\$163,985
INSTALL 8" STONE SUB BASE (RECLAIMED ON SITE)	2000	CY	3.04	6,080	
INSTALL 8" STONE SUB BASE	1474	CY	27.29	40,227	
INSTALL 4" STONE BASE	1711	CY	29.50	50,478	
FIRE ACCESS PAVING PREPARATION					
SUB GRADE	10000	SF	0.48	4,800	\$9,160
INSTALL 8" STONE SUB BASE	248	CY	3.04	754	
INSTALL 4" STONE BASE	122	CY	29.50	3,606	
PAVING					
FINE GRADE	140000	SF	0.11	15,400	\$355,898
INSTALL 2" BINDER	1851	TN	95.24	176,300	
INSTALL 2" FIRE ACCESS PAVING	132	TN	100.76	13,323	
SWEEP AND TACK	140000	SF	0.06	8,400	
INSTALL 1 1/2" TOP COURSE	1416	TN	100.65	142,476	
PAVING MARKINGS AND SIGNS					
MARKINGS	1	EA	5,508.75	5,509	\$10,466
SIGNS	1	EA	4,957.50	4,958	
LANDSCAPING PREPARATION					
SCREEN TOPSOIL	3000	CY	5.86	17,580	\$225,072
SPREAD TOPSOIL	3000	CY	7.83	23,490	
SHAPE AND GRADE RAIN GARDEN 1 (BUDGETED FOR MISC PROVISIONS)	2000	SF	2.79	5,580	
SHAPE AND GRADE RAIN GARDEN 2 (BUDGETED FOR MISC PROVISIONS)	1800	SF	2.79	5,022	
SHAPE AND GRADE STORM WATER DETENTION BASIN 1 (BUDGETED FOR MISC PROVISIONS)	6000	SF	1.95	11,700	
SHAPE AND GRADE STORM WATER DETENTION BASIN 2 (BUDGETED FOR MISC PROVISIONS)	6000	SF	1.95	11,700	

Sandy Hook Elementary School
Newtown, CT

Site 1 - Dickinson Drive
Renovation

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
LANDSCAPING	1	ALLOW	150,000.00	150,000	
PLANTINGS, MULCH, SEEDING		<<WITH ABOVE>>			
IRRIGATION SYSTEM		<<ASSUME NOT REQUIRED>>			
PLAYSCAPE PREPARATION				Total	\$13,343
SUB GRADE	5000	SF	0.48	2,400	
INSTALL 6" BANK RUN GRAVEL	93	CY	32.63	3,021	
INSTALL 4" TOP SOIL	61	CY	7.20	440	
INSTALL EDGING	300	LF	16.50	4,950	
INSTALL 6" WOOD CHIPS	93	CY	27.34	2,531	
PLAYSCAPE				Total	\$115,000
PRE-K	1	LS	75,000	75,000	
K-5	1	LS	40,000	40,000	
SOCCER FIELD				Total	\$22,374
SUB GRADE	24000	SF	0.24	5,760	
INSTALL 6" BANK RUN GRAVEL	444	CY	32.63	14,502	
INSTALL 4" TOP SOIL	293	CY	7.20	2,112	
BASKETBALL - HALF COURT				Total	\$26,500
SURFACE	5000	SF	5.00	25,000	
HOOP	1	EA	1,500.00	1,500	
SECURE COURTYARDS				Total	\$27,897
PRE-K COURTYARD:					
SUB GRADE	4674	SF	0.24	1,122	
INSTALL 6" BANK RUN GRAVEL	87	CY	32.63	2,824	
6" WOOD CHIPS	87	CY	27.34	2,366	
AREA DRAINS	4	EA	2,000	8,000	
FENCING	209	LF	65	13,585	
FENCE AND GUIDE RAIL				Total	\$122,705
4" CLF AT WALLS	500	LF	21.45	10,725	
6" CLF AT PERIMETER OF SITE	3500	LF	28.60	100,100	
GUIDE RAIL	300	LF	39.60	11,880	
SITE CONCRETE				Total	\$232,162
CONCRETE CURB	8100	LF	17.62	142,722	
CONCRETE SIDEWALK	13000	SF	6.88	89,440	
GEOHERMAL WELLS				Total	\$100,000
SITWORK RELATED WELLS & PIPING	1	ALLOW	100,000	100,000	
WELLS		<<with above>>			
		<<with HVAC>>			
OTHER				Total	\$429,000
PREMIUM FOR EXISTING SITE	1	LS	100,000	100,000	
GENERAL REQUIREMENTS	1	LS	150,000	150,000	
TEMPORARY FENCING	1	LS	85,000	85,000	
BOND (2%)				94,000	
SUBTOTAL SITWORK				\$4,798,000	
ESCALATION	\$4,798,000	\$\$'s	5%		240,000
DESIGN CONTINGENCY	\$5,038,000	\$\$'s	10%		504,000
CONSTRUCTION CONTINGENCY	\$5,542,000	\$\$'s	5%		277,000
CONSTRUCTION MANAGERS SERVICES	\$5,819,000	\$\$'s	10%		582,000
STATE PERMIT FEE	\$6,401,000	\$\$'s	0.03%		2,000
LOCAL PERMIT FEE		<<assume not required>>			

TOTAL SITWORK \$6,403,000

Exclusions

- 1 SPECIAL PERMITS AND FEES
- 2 HAZARDOUS OR CONTAMINATED MATERIALS AND OR SOILS
- 3 IRRIGATION

OFF SITE CONSTRUCTION

	Quantity	Unit	Unit Price	Subtotal	Total
STORM				Total	\$42,934
CATCH BASINS	4	EA	3,056.40	12,226	
DOUBLE CATCH BASIN	2	EA	5,216.00	10,432	
TIE INTO EXISTING	1	EA	1,308.00	1,308	
12" RCP	200	LF	39.38	7,876	
15" RCP	200	LF	40.38	8,076	
12" HOOD	1	EA	460.00	460	

Sandy Hook Elementary School
Newtown, CT

Site 1 - Dickinson Drive
Renovation

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
15" HOOD	3	EA	460.00	1,380	
BEDDING	59	CY	19.85	1,176	
SITE REMOVALS				Total	\$5,545
MILL 2" OF BITUMINOUS PAVING	10000	SF	0.28	2,800	
REMOVE BITUMINOUS CURB	500	LF	1.83	915	
SAW CUTTING	1000	LF	1.83	1,830	
MASS EARTH WORK				Total	\$80,340
CUTS	1000	CY	10.73	10,730	
SITE LINE MODIFICATIONS	1	EA	55,000	55,000	
FILLS	0	CY	3.02	-	
EXPORT AND DISPOSAL	1000	CY	14.61	14,610	
PAVING PREPARATION				Total	\$14,019
SUB GRADE	10000	SF	0.20	2,000	
INSTALL 12" STONE BASE	407	CY	29.50	12,019	
PAVING				Total	\$42,820
FINE GRADE	10000	SF	0.11	1,100	
INSTALL 2" BINDER	132	TN	98.55	13,031	
SWEEP AND TACK	20000	SF	0.06	1,200	
INSTALL 2" TOP COURSE	264	TN	103.95	27,489	
MARKINGS, SIGNS, TRAFFIC CONTROL				Total	\$31,452
MARKINGS	1	EA	1,100.00	1,100	
SIGNS	1	EA	1,100.00	1,100	
TEMPORARY TRAFFIC CONTROL	1	EA	3,850.00	3,850	
POLICE TRAFFIC CONTROL	20	DY	1,270.08	25,402	
TOPSOIL				Total	\$1,292
PLACE TOPSOIL	75	CY	17.23	1,292	
REMOVAL OF DICKSON DRIVE				Total	\$80,452
RECLAIM ASPHALT	22000	SF	0.17	3,740	
REGRADE	22000	SF	0.26	5,720	
INSTALL GRASS PAVERS	14400	LF	4.93	70,992	
WIDEN WASHINGTON AVENUE				Total	\$157,990
REMOVE BITUMINOUS PAVING	14280	SF	0.12	1,714	
REGRADE	14280	SF	0.26	3,713	
SUB GRADE	14280	SF	0.20	2,856	
INSTALL 12" STONE BASE	582	CY	29.50	17,162	
FINE GRADE	14280	SF	0.11	1,571	
INSTALL 2" BINDER	189	TN	98.55	18,608	
SWEEP AND TACK	14280	SF	0.06	857	
INSTALL 2" TOP COURSE	189	TN	103.95	19,627	
MARKINGS	1	EA	1,100.00	1,100	
SIGNS	1	EA	1,100.00	1,100	
TEMPORARY TRAFFIC CONTROL	3	EA	3,850.00	11,550	
POLICE TRAFFIC CONTROL	10	DY	1,270.08	12,701	
CATCH BASINS	6	EA	3,056.40	18,338	
15" RCP	510	LF	40.38	20,594	
BEDDING	76	CY	19.85	1,500	
LANDSCAPING	1	LS	25,000	25,000	
GAS SERVICES				Total	\$13,500
EXCAVATION, BEDDING & BACKFILL	450	LF	30.00	13,500	
PIPING		<<BY UTILITY COMPANY>>			
SUBTOTAL OFF SITE CONSTRUCTION				\$470,000	
ESCALATION	\$470,000	\$\$'s	5%		\$24,000
DESIGN CONTINGENCY	\$494,000	\$\$'s	10%		\$49,000
CONSTRUCTION CONTINGENCY	\$543,000	\$\$'s	5%		\$27,000
CONSTRUCTION MANAGERS SERVICES	\$570,000	\$\$'s	10%		\$57,000
STATE PERMIT FEE	\$627,000	\$\$'s	0.03%		\$0
LOCAL PERMIT FEE		<<assume not required>>			

TOTAL OFF SITE CONSTRUCTION \$627,000

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks																												
Demolition																																		
Building																																		
Subtotal Building:	99,945	gsf	0.00	0		<<separate>>																												
Total Demolition	99,945	gsf	0.00	0																														
Excavation and Foundations																																		
Building																																		
Excavation and backfill		<<with Stawork>>				0																												
Foundation walls and footings						0																												
Frost Walls At Exterior Wall Tilt Up Panels						0 5.0' depth of excavation																												
Footing (2' x 1')	3,143	lf				0 2.00 feet wide																												
Excavation (including layback)	5,529	cy	15.00	82,940		3.00 feet high																												
Formwork	18,858	sf	10.00	188,580																														
Concrete	698	cy	200.00	139,600																														
Reinforcing	87,305	lbs	1.15	100,401		125 lbs per cy																												
Crushed Gravel	466	cy	45.00	20,955		12 inches deep																												
Backfill with on-site material	4,365	cy	10.00	43,653																														
Export excess material	1,164	cy	12.00	13,968																														
Subtotal Footing (2' x 1')	3,143	lf	187.78	590,186																														
less excavation	3,143	lf	143.06	449,624																														
	698	cy	643.75																															
Frost Walls At Exterior Masonry Wall & Glass Walls						5.0' depth of excavation																												
Footing (2' x 1')	167	lf				0 2.00 feet wide																												
Excavation (including layback)	294	cy	15.00	4,407		3.00 feet high																												
Formwork	1,002	sf	10.00	10,020																														
Concrete	37	cy	200.00	7,422																														
Reinforcing	4,639	lbs	1.15	5,335		125 lbs per cy																												
Crushed Gravel	25	cy	45.00	1,113		12 inches deep																												
Backfill with on-site material	232	cy	10.00	2,319																														
Export excess material	62	cy	12.00	742																														
Subtotal Footing (2' x 1')	167	lf	187.78	31,359																														
less excavation	167	lf	143.06	23,890																														
	37	cy	643.75																															
Walls At Interior Tilt Up Panel Wall						3.0' depth of excavation																												
Footing (2' x 1')	1,062	lf				0 2.50 feet wide																												
Excavation (including layback)	826	cy	15.00	12,390		1.00 feet high																												
Formwork	2,124	sf	10.00	21,240																														
Concrete	98	cy	200.00	19,667																														
Reinforcing	8,883	lbs	1.15	7,916		70 lbs per cy																												
Crushed Gravel	177	cy	45.00	7,965		12 inches deep																												
Backfill with on-site material	551	cy	10.00	5,507																														
Export excess material	275	cy	12.00	3,304																														
Subtotal Footing (2' x 1')	1,062	lf	73.44	77,988																														
less excavation	1,062	lf	53.47	56,788																														
	98	cy	577.50																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"></td> <td style="text-align:center;">Turner</td> <td style="width:50%;"></td> <td style="text-align:center;">Complex</td> </tr> <tr> <td>Foundation Walls</td> <td></td> <td></td> <td>\$429,225</td> </tr> <tr> <td>Exterior Tilt Up walls</td> <td>\$428,670</td> <td></td> <td>with above</td> </tr> <tr> <td>Exterior CMU walls</td> <td>\$22,777</td> <td></td> <td>with above</td> </tr> <tr> <td>Interior Tilt Up walls</td> <td>\$48,823</td> <td></td> <td>with above</td> </tr> <tr> <td></td> <td>\$500,270</td> <td></td> <td>\$429,225</td> </tr> <tr> <td>Cubic Yards of Concrete</td> <td>834</td> <td></td> <td>865</td> </tr> </table>								Turner		Complex	Foundation Walls			\$429,225	Exterior Tilt Up walls	\$428,670		with above	Exterior CMU walls	\$22,777		with above	Interior Tilt Up walls	\$48,823		with above		\$500,270		\$429,225	Cubic Yards of Concrete	834		865
	Turner		Complex																															
Foundation Walls			\$429,225																															
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Interior Tilt Up walls	\$48,823		with above																															
	\$500,270		\$429,225																															
Cubic Yards of Concrete	834		865																															
Spread footings	17	ea.	550.00			9,350																												
5" Slab on Grade	99,945	sf				0																												
5" concrete slab on grade	1,542	cy	250.00			385,500																												
Welded wire fabric	99,945	sf	1.15			114,937																												
Vapor barrier	99,945	sf	0.75			74,959																												
Under slab insulation	9,429	sf	3.00			28,287																												
12" Base course/gravel		<<with Stawork>>				0																												
Subtotal 5" Slab on Grade:		SS/sf	6.04			603,773																												
Haunch slab on grade at perimeter	3,143	lf	20.00			62,860																												
Haunch at Interior CMU Walls	3,984	lf				<< into only >>																												
Subgrade, Stone, WP, etc		<< with SOG above >>				0																												
Concrete	440	cy	225.00			99,100																												
Reinforcing	23,832	lbs	1.15			54.1																												
Subtotal Haunch at Interior CMU Walls:	3,984	lf	31.91			126,506																												
Planters	85	lf	525.00			34,125																												
Equipment Pads	1	ls	6,250			6,250																												
Elevator Pit		<<not required>>				0																												
Sump Pit		<<not required>>				0																												
Locker Pads		<<not required>>				0																												
Fluid applied waterproofing at fldn wall	585	sfw	4.00			2,338																												
Rigid insulation	585	sfw	3.00			1,754																												
Perimeter footing drains	3,143	lf	30.00			94,290																												
Under slab drains		<<assume not required>>				0																												
Casual pumping of groundwater	1	ls	12,000			12,000																												
Subtotal Building:	99,945	gsf	16.54			1,653,000																												

	Turner	Complex Construction
5" Slab on Grade	\$385,590	\$520,000
Vapor Barrier	\$74,959	with above
Haunch Slab	\$62,660	with above
Total	\$523,209	\$520,000

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Structural Frame						
Building						
Tilt Up Wall Panels		<<Pricing by Complex Construction LLC>>				0
Exterior Walls		<<with Exterior Wall>>				0
Interior Walls		<<with Interior Finishes>>				0
Structural steel framing						
Columns and framing	99,945	gsf	9.00			899,505
Joists		<<with above>>				0
Connections		<<with above>>				0
Erection		<<with above>>				0
Second floor allowance	6,000	gsf	11.00			66,000
Subtotal Structural steel framing:				965,505		
Metal floor deck	6,000	sf	3.50			21,000
Metal roof deck	114,133	sf	4.00			456,534
Subtotal Structural Steel incl. deck				1,443,039		
4" Fill on metal floor deck	73	cy	365.00			26,767
Sprayed on fireproofing		<<not required>>				0
Steel Structure	99,945	gsf	14.71			1,469,805
Building						
Metal stairs	2	flights	7,500			15,000
Miscellaneous metals	99,945	gsf	1.00			99,945
Safety and protection	99,945	sf	0.50			49,973
Subtotal Building:	99,945	gsf	16.36			1,635,000
Total Structural Frame	99,945	gsf	16.36			1,635,000

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Roofing & Waterproofing						
Building						
Samafil Membrane	106,796	sfroof			0	
Samafil Membrane	106,796	sfroof	22.00	2,349,521		
Valleys & Ridges	<<with above>>				0	
Roof Edge	<<with above>>				0	
5.5 in. Insulation	<<with above>>				0	
Self Adhered Vapor Retarder	106,796	sfroof	2.00	213,593		
Sheathing	106,796	sfroof	2.75	293,690		
Subtotal Samafil Membrane:				26.75	2,857,000	
Gutter System	2,069	lf	25.00	51,725		
Downspouts	1,245	lf	20.00	24,900		
EPDM membrane roof	3,225	sfroof		0		
Membrane	3,225	sfroof	12.00	38,700		
5/8" Glass-Mat Cover Board	<<with above>>			0		
Tapered insulation for drainage	3,225	sfroof	7.00	22,575	average 4" thick	
Self Adhered Vapor Retarder	3,225	sfroof	2.00	6,450		
Subtotal EPDM membrane roof:				21.09	68,000	
Wall Flashing	3,123	lf	30.00	93,690		
Cast Stone Perimeter Coping	238	lf	100.00	23,800		
Blocking	<<with above>>			0		
Skylights				0		
Classroom	34	ea	7,629	258,380		
Gym and Cafeteria	10	ea	4,961	49,610		
LED Lights	<<with above>>			0		
Electronic Shades	<<with above>>			0	classrooms only	
Roofing Tie-ins	<<with above>>			0		
Subtotal Skylights:				99,945	gsf	3.09
Subtotal Building:						309,000
Cupolas						
Small Cupola	16	ea	24,657.00		394,512	
Steel Framing	<<assume light gauge framing>>					
Metal Decking	<<with Structural Framing>>					
Exterior Wall						
LI Ga. Framing	277	sfwall	9.00	2,493		
Air/Vapor Barrier	212	sfwall	4.00	848		
Insulation	212	sfwall	3.00	636		
Exterior Finish	212	sfwall	15.00	3,180		
Windows	84	sfwall	75.00	6,300		
Exterior Window Trim	60	lf	12.00	720		
Window Sill	32	lf	20.00	640		
Blocking	40	lf	5.50	220		
Standing Seam Roofing	140	sfroof	30.00	4,200		
Sheathing	140	sfroof	3.00	420		
Soffit/Fascia	40	lf	50.00	2,000		
Interior				0		
Interior Ceiling	102	sf	20.00	2,040		
Interior Trim	60	lf	12.00	720		
Window Sill	20	lf	12.00	240		
				0		
Subtotal Cupola:				24,657		
Cupolas						
Large Cupola	8	ea	39,568.50		316,548	
Steel Framing	<<assume light gauge framing>>					
Metal Decking	<<with Structural Framing>>					
Exterior Wall						
LI Ga. Framing	372	sfwall	9.00	3,348		
Air/Vapor Barrier	372	sfwall	4.00	1,488		
Insulation	372	sfwall	3.00	1,116		
Exterior Finish	372	sfwall	15.00	5,580		
Windows	144	sfwall	75.00	10,800		
Exterior Window Trim	72	lf	12.00	864		
Window Sill	44	lf	20.00	880		
Blocking	55	lf	5.50	303		
Standing Seam Roofing	234	sfroof	30.00	7,020		
Sheathing	234	sfroof	3.00	702		
Soffit/Fascia	54	lf	50.00	2,700		
Interior				0		
Interior Ceiling	176	sf	20.00	3,520		
Interior Trim	72	lf	12.00	864		
Window Sill	32	lf	12.00	384		
				0		
Subtotal Cupola:				39,569		
Roof screens	<<assume none required>>				0	
Snowguards	2,069	lf	25.00	51,725		
Roof accessories	1	allow	5,000	5,000		
Temporary roofing	99,945	gsf	0.25	24,986		
Subtotal Building:				99,945	gsf	42.22
Subtotal Cupola:						4,220,000
Total Roofing & Waterproofing						
				99,945	gsf	42.22
						4,220,000

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Soap	36	lf	35.00		1,260	
Relieving angles	<<assume not required>>				0	
3 in. rigid insulation	504	sfw	3.00		1,512	
Air/Vapor barrier	504	sfw	4.00		2,016	
8 inch c.m.u. backup	504	sfw	20.00		10,080	
Interior sheetrock and framing	<<assume not required>>				0	
Paint Exposed CMU	504	sfw	1.50		756	
Winter weather heat/protection	<<assume not required>>				0	
Subtotal Brick with c.m.u. backup:				63.75	32,130	
Glass and glazing					0	
Punched Windows	1	ls	357,833		357,833	
5'-3 w x 3'-4 h Windows	114	ea	1,194.38	136,159		
5'-3 w x 5'-4 h Windows	42	ea	1,876.88	78,829		at secured courtyards
8'-6 dia Windows	1	ea	3,773.81	3,774		
5'-0 dia Windows	7	ea	1,275.63	8,929		
6'-2 w x 6'-6 h Windows	1	ea	3,484.50	3,485		
10'-6 w x 5'-6 h Windows	2	ea	5,801.25	11,603		
6'-5 w x 3'-2 h Windows	1	ea	1,768.00	1,768		
6'-0 dia window	1	ea	3,265.60	3,266		
6'-6 w x 6'-0 h Windows	1	ea	3,315.00	3,315		
2'-5 w x 6'-0 h Windows	2	ea	975.00	1,950		
3'-0 w x 6'-0 h Windows	2	ea	1,170.00	2,340		
17'-0 w x 3'-0 h Windows curved	1	ea	4,590.00	4,590		
4'-9 w x 6'-0 h Windows	1	ea	1,852.50	1,853		
2'-5 w x 2'-9 h Windows	2	ea	446.88	894		
5'-4 w x 8'-6 h Windows	30	ea	3,036.75	91,163		
6'-4 w x 2'-4 h Windows	4	ea	984.43	3,938		
			Total:	357,833		
Window Wall					0	
Library	651	sfw	85.00	55,335		
Lobby	472	sfw	85.00	40,120		
Secured Courtyards	470	sfw	85.00	39,971		
Preschool	159	sfw	85.00	13,526		
Aluminum entry doors and frames	39	lvs	3,500	136,500		
Transoms	3	ea	402.50	1,208		
Sealants	7,257	sfw	1.00	7,257		
Winter weather heat/protection	<<assume not required>>			0		
Subtotal Glass and glazing:				89.80	651,750	
Hollow metal doors and frames	2	lvs	1,500	3,000		
Overhead doors and frames	2	ea	7,500	15,000		
Louvers	1	allow	5,000	5,000		
Entry Canopies				0	Main, Gym, PreSchool	
Trim	332	lf	25.00	8,300		
Railing	80	lf	350.00	28,000	Main Entry	
Columns	10	ea	1,500	15,000		
Brick Base	10	ea	1,600	16,000		
Soffit	3,225	sf	20.00	64,500		
Library Soffits	296	sf	30.00	8,880		
Exterior wall dock	3	allow	2,500	7,500		
Temporary exterior wall	99,945	gsf	0.25	24,986		
Subtotal Building:				99,945	gsf	30.86
Total SFW:				7,761	sfw	397.35
EWR:				0.08		
Total Exterior Wall				99,945	gsf	30.86
						3,084,000
Interior Finishes						
Building						
Finishes					0	
Interior Partitions					0	
Till Up Wall Panels	<<Pricing by Complex Construction LLC>>					
Interior Walls	31,250	sfw	16.25	507,812		
Sealants	31,250	sfw	0.75	23,438		
Masonry				0		
8" CMU Wall	<<average height 20'>>			0		
Safe Rooms	9,009	sfw	20.00	180,180	assume 11' high	
Corridors	38,671	sfw	20.00	773,422	full-height, reinforced	
Entry Ways	14,840	sfw	20.00	296,806	full-height, reinforced	
Gym	3,404	sfw	20.00	68,070	full-height, reinforced	
Other	6,876	sfw	20.00	137,520	full-height, reinforced	
Drywall				0		
6" 15 ga High Impact GWB with STC Rating				0		
Classrooms	16,568	sfw	13.50	223,668		
Library	2,984	sfw	13.50	40,284		
Gym	1,104	sfw	13.50	14,904		
Custodial	368	sfw	13.50	4,968		
Administration	2,576	sfw	13.50	34,776		
4" 20 ga w/ 5/8" High Impact GWB	13,785	sfw	7.20	99,324	at classrooms	
Toilet Shaft Wall	3,726	sfw	10.40	38,771	classroom toilets	
Second Floor Allowance	1	allow	10,080	10,080		
Column Enclosures	1	allow	14,400	14,400		
Subtotal Interior Partitions:				99,945	gsf	24.70
Subtotal Building:						2,468,422
Ceilings						
ACT					0	
ACT-1	49,208	sf	4.00	196,832	School Zone FF, Humiguard +,	
ACT-3	816	sf	7.00	5,712	EcoPhone Focus DG	
ACT-4	1,707	sf	4.00	6,828	GWB Vinyl Stipple Finish	
ACT-5	2,818	sf	7.00	19,726	Ceramaguard FF	
Exp/ACT-2	7,478	sf	<< info only >>	0		
Paint Structure	7,478	sf	1.50	11,217		
ACT-2	4,584	sf	-30.00	-137,520	USG Wireworks 2' x2'	
Drywall	2,492	sf	<< info only >>	0		
Drywall	2,492	sf	7.00	17,444		
Paint	2,492	sf	1.50	3,738		

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Painted Structure	9,833	sf	1.50		14,749	Corridors
Painted Structure	10,183	sf	1.50		15,275	Gym, Stage
Exposed Structure/Sound Baffles	7,905	sf			0	
Paint Structure	8,696	sf	1.50		13,043	
4 - 0 Sound Baffles	1,402	sf	35.00		49,070	
Soffits	8,892	sf	12.00		107,900	5% of ceilings
Second Floor Allowance	5,000	gsf	4.00		20,000	
Subtotal Ceilings:	99,945	gsf	6.19		619,054	
Wall finishes		sfw	<< info only >>		0	
Paint	197,444	sfw	1.25		246,805	
CT / PT	9,630	sfw	<< info only >>		0	Toilet Rooms
CT - Ceramic Tile	4,815	sfw	13.50		65,003	assume 50%
Paint	4,815	sfw	1.25		6,019	assume 50%
Second Floor Allowance	1	allow	1,875		1,875	
Subtotal Wall finishes:	99,945	gsf	3.20		319,701	
Floor finishes					0	
Flooring					0	
CPT-1 Carpet Tile	10,433	sf	5.00		52,165	
CPT-2 Broadloom	4,323	sf	4.50		19,454	Classrooms
CPT-2 Broadloom	2,244	sf	4.50		10,098	at Safe Rooms
Polished Concrete	47,322	sf	10.50		496,881	
Protection	47,322	sf	2.75		130,136	
Recycled Rubber	22,233	sf		<<with Stewwork>>		Courtyards
Quarry Tile	1,707	sf	23.00		39,261	Kitchen
Ceramic Tile	2,556	sf	13.50		34,506	Toilets
Sealed Concrete	5,287	sf	1.75		9,252	Storage/ MEP Rooms
Second Floor	6,000	sf	1.75		10,500	
Vinyl Plank	7,553	sf	7.25		54,759	Gym
Paint Stage Floor	1,516	sf	2.00		3,032	
Stair Treads			<<assume none required>>		0	
Subtotal Flooring:	99,945	gsf	8.61		860,044	
Base					0	
Quarry Tile	183	lf	6.00		978	
Ceramic Tile	983	lf	11.00		10,813	Toilets
Vinyl					0	
VB-1: 6"	11,189	lf	3.00		33,567	
VB-2: 4"	2,956	lf	2.50		7,390	
Second Floor Allowance	1	allow	375.00		375	
Wood	190	lf	25.00		4,750	Stage
Subtotal Base:	99,945	gsf	0.58		57,653	
Subtotal Floor finishes:	99,945	gsf	9.18		917,697	
Doors, frames and hardware					0	
Frames					0	
Single Door Frame	93	ea	300.00		27,900	
Double Door Frame	31	ea	350.00		10,850	
Doors					0	
F.R. Hollow Metal Doors	8	hvs	350.00		2,800	at corridors
Single Wood Door	145	hvs	400.00		58,000	
Lites	60	hvs	35.00		2,100	
Bullet Resistant Film	36	hvs	400.00		14,400	at classrooms
Acoustical Doors	1	prs	7,500.00		7,500	Music Rm
Hardware Allowance	117	hvs	450.00		52,650	
Premium Allowance	1	allow	25,000		25,000	Lights, Electric Hdw, etc
Classroom Hardware			<<with Security>>		0	
Installation (Frame, Door & Hdw)	153	hvs	450.00		68,850	
Paint HM Frames	124	hvs	100.00		12,400	
Paint HM Doors	8	hvs	300.00		2,400	
Sliding Doors	36	hvs	1,500		54,000	Safe Rooms
Aluminum Doors	6	hvs	3,000		18,000	
Subtotal Doors, frames and hardware:	99,945	gsf	5.57		358,850	
HM Interior Lites					0	
Main Office	64	sfw	35.00		2,240	assume 4' high
Security Transaction Window	20	sfw	60.00		1,200	
Cafeteria	16	ea	630.00		10,080	assume 4' high
Security	12	sfw	450.00		5,400	Bulletproof
Subtotal HM Interior Lites:	99,945	gsf	2.37		18,920	
Subtotal Finishes:	99,945	gsf	47.03		4,700,644	
General Requirements						
Temporary Facilities	99,945	gsf	1.00		99,945	
Temporary Utilities	99,945	gsf	1.00		99,945	
Daily Cleaning	99,945	gsf	2.75		274,849	
Rubbish Removal	99,945	gsf	0.75		74,959	0.02
Final Cleaning	99,945	gsf	0.50		49,973	
Protection & Safety	99,945	gsf	1.00		99,945	
Subtotal Building:	99,945	gsf	54.03		5,400,000	
Total Interior Finishes	99,945	gsf	64.03		6,400,000	
Special Requirements						
Millwork						
Wood Trim						
Window Trim	3,387	lf	20.00		<<not required>>	
Window Sills	1,368	lf	75.00		102,632	
Subtotal Wood Trim:	99,945	gsf	1.03		102,632	
Special Requirements						
Pre-School/ Kindergarten	6	ea	28,350.00		170,100	
Pre-School/ Kindergarten						
Cabinetry						
Plam Base Cabinets	12	lf	250.00		3,000	

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Solid Surface Countertop	12	lf	187.50		2,250	
Sink	<<with Plumbing>>					
Upper Cabinets	12	lf	175.00		2,100	
Cubbies	<<with F, F & E>>				0	
Bookcases	<<with F, F & E>>				0	
Plam Built-Ins for Storage	25	lf	250.00		6,250	assume average length
Markerboards at Safe Room	57	sf	20.00		1,140	
Markerboards	64	sf	20.00		1,280	16' x 4' Markerboard
Tackboards	72	sf	20.00		1,440	Three - 6' x 4' Tackboards
Projection Screens	1	ea	400.00		400	Manual
Smartboard	1	ea	5,000		5,000	
Drinking Fountain	<<with Plumbing>>				0	
Undercounter Refrigerator	1	ea	350.00		350	
Desks and Chairs	<<with F, F & E>>				0	
Storage Room					0	
Wall Cabinets	10	lf	400.00		4,000	4'0" to 8'0" AFF
Panic Button & Communications	<<with Electrical>>				0	
Toilet Room						
Mirror	1	ea	125.00		125	
TP Holders	1	ea	65.00		65	
Paper Towel Dispenser	1	ea	150.00		150	
Electric Hand Dryer	1	ea	250.00		250	
Soap Dispenser	1	ea	50.00		50	
ADA Grab Bar Sets	1	ea	500.00		500	
Subtotal Pre-School/ Kindergarten:					28,350	
Grades 1 & 2	12	ea	28,350.00		340,200	
Grades 1 & 2						
Cabinetry						
Plam Base Cabinets	12	lf	250.00		3,000	
Solid Surface Countertop	12	lf	187.50		2,250	sink at first grade
Sink	<<with Plumbing>>					
Upper Cabinets	12	lf	175.00		2,100	
Cubbies	<<with F, F & E>>				0	
Bookcases	<<with F, F & E>>				0	
Plam Built-Ins for Storage	25	lf	250.00		6,250	assume average length
Undercounter Refrigerator	1	ea	350.00		350	
Desks and Chairs	<<with F, F & E>>				0	
Markerboards at Safe Room	57	sf	20.00		1,140	
Markerboards	64	sf	20.00		1,280	16' x 4' Markerboard
Tackboards	72	sf	20.00		1,440	Three - 6' x 4' Tackboards
Projection Screens	1	ea	400.00		400	Manual
Smartboard	1	ea	5,000		5,000	
Drinking Fountain	<<with Plumbing>>				0	
Storage Room					0	
Wall Cabinets	10	lf	400.00		4,000	4'0" to 8'0" AFF
Panic Button & Communications	<<with Electrical>>				0	
Toilet Room						
Mirror	1	ea	125.00		125	
TP Holders	1	ea	65.00		65	
Paper Towel Dispenser	1	ea	150.00		150	
Electric Hand Dryer	1	ea	250.00		250	
Soap Dispenser	1	ea	50.00		50	
ADA Grab Bar Sets	1	ea	500.00		500	
Subtotal Grades 1 & 2:					28,350	
Grades 3 - 5	18	ea	17,010.00		306,180	
Grades 3 - 5						
Cabinetry						
Plam Base Cabinets	0	lf	250.00		0	
Solid Surface Countertop	0	lf	187.50		0	
Upper Cabinets	0	lf	175.00		0	
Cubbies	<<with F, F & E>>				0	
Bookcases	<<with F, F & E>>				0	
Plam Built-Ins for Storage	35	lf	250.00		8,750	assume average length
Desks and Chairs	<<with F, F & E>>				0	
Markerboards at Safe Room	57	sf	20.00		1,140	
Markerboards	64	sf	20.00		1,280	16' x 4' Markerboard
Tackboards	72	sf	20.00		1,440	Three - 6' x 4' Tackboards
Projection Screens	1	ea	400.00		400	Manual
Smartboard	<<with F, F & E>>				0	
Drinking Fountain	<<none required>>				0	
Storage Room					0	
Wall Cabinets	10	lf	400.00		4,000	4'0" to 8'0" AFF
Panic Button & Communications	<<with Electrical>>				0	
Toilet Room						
Subtotal Grades 3 - 5:					17,010	
Storage Room	10	ea	2,500.00		25,000	
Storage Room						
Shelving	1	allow	2,500		2,500	
Art Classroom	1	allow	30,115.00		30,115	
Art Classroom						
Cabinetry						
Base Cabinets	30	lf	250.00		7,500	
Solid Surface Countertop	30	lf	187.50		5,625	
Sinks	<<with Plumbing>>					
Upper Cabinets	30	lf	175.00		5,250	
Markerboards	64	sf	30.00		1,920	16' x 4' Markerboard
Tackboards	99	sf	20.00		1,920	Four - 6' x 4' Tackboards
Projection Screens	1	ea	400.00		400	Manual
Smartboard	<<with F, F & E>>				0	
Kin	1	ea	5,000		5,000	
Kin Room Storage	1	ls	2,500		2,500	
Subtotal Art Classroom:					30,115	

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Music Classroom	1	ea	27,662.50		27,663	
Music Classroom						
Cabinetry				0		
Base Cabinets	15	lf	250.00	3,750		
Solid Surface Countertop	15	lf	187.50	2,813		
Upper Cabinets	15	lf	175.00	2,625		
Closet Shelves	100	lf	25.00	2,500		
Tackboard	32	sfw	20.00	640		8' x 4'
Markerboard	48	sfw	20.00	960		12' x 4'
Smartboard		<<with F, F & E>>		0		
Acoustical Panels	575	sfw	25.00	14,375		50% of walls
Music Stands		<<with F, F & E>>		0		
Chairs		<<with F, F & E>>		0		
Piano		<<with F, F & E>>		0		
Hi-Fi Equip & Speakers		<<with F, F & E>>		0		
Instrument Storage Units		<<with F, F & E>>		0		
Subtotal Music Classroom:				27,663		
Science Classroom	1	ea	17,287.50		17,288	
Science Classroom						
Cabinetry				0		
Base Cabinets	15	lf	250.00	3,750		
Solid Surface Countertop	15	lf	187.50	2,813		
Upper Cabinets	15	lf	175.00	2,625		
Tall Cabinets	8	lf	500.00	4,000		
Closet Shelves	100	lf	25.00	2,500		
Tackboard	32	sfw	20.00	640		Two - 4' x 4' Tackboards
Markerboard	48	sfw	20.00	960		12' x 4' Markerboard
Smartboard		<<with F, F & E>>		0		
Tables and Chairs		<<with F, F & E>>		0		
Subtotal Science Classroom:				17,288		
Special Education Rooms	3	ea	11,645.00		34,935	
Special Education Rooms						
Cabinetry				0		
Base Cabinets	10	lf	250.00	2,500		
Solid Surface Countertop	10	lf	187.50	1,875		
Upper Cabinets	10	lf	175.00	1,750		
Tall Cabinets	8	lf	500.00	4,000		
Markerboards	32	sf	20.00	640		8' x 4' Markerboard
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Projection Screens	1	ea	400.00	400		Manual
Smartboard		<<with F, F & E>>		0		
Subtotal Special Education Rooms:				11,645		
IT Room	1	ea	1,000.00		1,000	
IT Room						
Shelving	1	allow	1,000	1,000		
Circulation	1	ea	53,750		53,750	
Circulation						
Miscellaneous Specialty	10,750	gsf	5.00	53,750		
Remedial Room	2	ea	5,115.00		10,230	
Remedial Room						
Cabinetry				1,500		
Base Cabinets	6	lf	250.00	1,500		
Solid Surface Countertop	6	lf	187.50	1,125		
Upper Cabinets	6	lf	175.00	1,050		
Markerboards	32	sf	30.00	960		8' x 4' Markerboard
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Smartboard		<<with F, F & E>>		0		
Subtotal Remedial Room:				5,115		
Copy/Storage Room	2	ea	8,575.00		17,150	
Copy/Storage Room						
Cabinetry				3,500		
Base Cabinets	14	lf	250.00	3,500		
Solid Surface Countertop	14	lf	187.50	2,625		
Upper Cabinets	14	lf	175.00	2,450		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Copier		<< with F, F & E>>		0		
Subtotal Copy/Storage Room:				8,575		
OT/PT Room	1	ea	8,575.00		8,575	
OT/PT Room						
Cabinetry				3,500		
Base Cabinets	14	lf	250.00	3,500		
Solid Surface Countertop	14	lf	187.50	2,625		
Upper Cabinets	14	lf	175.00	2,450		
Copier		<< with F, F & E>>		0		
Subtotal OT/PT Room:				8,575		
Girls Toilet Rooms	3	ea	13,325.00		39,975	
Girls Toilet Rooms						
Vanity		<<assume not required>>				
Toilet Partitions						
Standard	6	ea	1,350	8,100		
H/C	1	ea	1,900	1,900		
Mirror	5	ea	175.00	875		
TP Holders	5	ea	65.00	325		Mirror
Towel Dispensers	5	ea	150.00	750		TP Holders
Soap Dispensers	5	ea	50.00	250		Paper Towel Dispenser
ADA Grab Bar Sets	1	ea	500.00	500		Electric Hand Dryer
Sanitary Napkin Dispenser	1	ea	125.00	125		Soap Dispenser

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Electric Hand Dryer	2	ea	250.00	500		ADA Grab Bar Sets
Subtotal Girls Toilet Rooms:				13,325		
Boys Toilet Rooms	3	ea	10,475.00		31,425	
Boys Toilet Rooms						
Vanity		<<assume not required>>				
Toilet Partitions						
Standard	3	ea	1,350	4,050		
H/C	1	ea	1,900	1,900		
Urinal Screens	3	ea	400	1,200		
Mirror	5	ea	175.00	875		
TP Holders	5	ea	65.00	325		
Towel Dispensers	5	ea	150.00	750		
Soap Dispensers	5	ea	50.00	250		
ADA Grab Bar Sets	1	ea	500.00	500		
Sanitary Napkin Dispenser	1	ea	125.00	125		
Electric Hand Dryer	2	ea	250.00	500		
Subtotal Boys Toilet Rooms:				10,475		
Toilet Rooms	4	ea	940.00		3,760	
Toilet Rooms						
Vanity		<<assume not required>>				
Mirror	1	ea	175.00	175		
TP Holders	1	ea	65.00	65		
Towel Dispensers	1	ea	150.00	150		
Soap Dispensers	1	ea	50.00	50		
ADA Grab Bar Sets	1	ea	500.00	500		
Subtotal Toilet Rooms:				940		
Closets	1	allow	3,000		3,000	
Closets						
Closet Rod	1	allow	3,000	3,000		
Closet Shelf		<<with above>>		0		
Subtotal Closets:				3,000		
Library	1	ea	221,455.00		221,455	
Library						
Circulation Desk	44	lf	650.00	28,600		
Computer Stations	75	lf	200.00	15,000		
Cabinetry				3,500		
Base Cabinets	14	lf	250.00	3,500		
Solid Surface Countertop	14	lf	187.50	2,625		
Upper Cabinets	14	lf	175.00	2,450		
Low Wall Shelving	20	lf	275.00	5,500		
4' Display Cases	4	ea	2,500	10,000		
Markerboards	32	sf	30.00	960		8' x 4' Markerboard
Tackboards	96	sf	20.00	1,920		Four - 6' x 4' Tackboards
Smartboard	1	ea	5,000	5,000		
Projection Screens	1	ea	400.00	400		Manual
Desks and Chairs	1	allow	15,500	15,500		
Library Shelving / Stacks	200	lf	650.00	130,000		
Subtotal Library:				221,455		
Library Office	1	ea	7,965.00		7,965	
Library Office						
Base Cabinets	10	lf	250.00	2,500		
Solid Surface Countertop	10	lf	187.50	1,875		
Upper Cabinets	10	lf	175.00	1,750		
Markerboards	40	sf	30.00	1,200		10' x 4' Markerboard
Tackboards	32	sf	20.00	640		2 - 4' x 4' Tackboards
Subtotal Library Office:				7,965		
Teachers Project Area	1	ea	8,895.00		8,895	
Teachers Project Area						
Cabinetry				0		
Base Cabinets	14	lf	250.00	3,500		
Solid Surface Countertop	14	lf	187.50	2,625		
Upper Cabinets	14	lf	175.00	2,450		
Markerboards		<< assume none required >>		0		
Tackboards	16	sf	20.00	320		1 - 4' x 4' Tackboards
Subtotal Teachers Project Area:				8,895		
Teacher's Lounge	1	ea	8,445.00		8,445	
Teacher's Lounge						
Cabinetry				0		
Base Cabinets	10	lf	250.00	2,500		
Solid Surface Countertop	10	lf	187.50	1,875		
Sink		<<with Plumbing>>		0		
Upper Cabinets	10	lf	175.00	1,750		
Markerboards		<< assume none required >>		0		
Tackboards	16	sf	20.00	320		1 - 4' x 4' Tackboards
Appliances	1	allow	2,000.00	2,000		
Refrigerator		<<with above>>		0		
Microwave		<<with above>>		0		
Oven		<<with above>>		0		
Tables and Chairs		<< with F, F & E>>		0		
Subtotal Teacher's Lounge:				8,445		
Auditorium/ Gymnasium	1	ea	136,480.00		136,480	
Auditorium/ Gymnasium						
Gym Divider Curtain		<< assume not required >>		0		
Wall Safety Pads	1,140	sfw	18.00	20,520		
Basketball Backstop/Backboard	6	ea	7,500	45,000		Field Up
Retractable Bleachers	1	ls	30,000	30,000		200 seats
Scoreboard		<< with F, F & E>>		0		
Tackboards	48	sf	20.00	960		Two - 6' x 4' Tackboards

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Acoustical Treatment	1,600	sf	25.00	40,000		on walls
				Subtotal Auditorium/Gymnasium:	136,480	
Stage	1	ea	95,500.00		95,500	
Stage						
Stage Curtain	1	allow	20,000	20,000		
Stage Rigging	1	allow	15,000	15,000		
Performance Platform	1	allow	50,500	50,500		
Stairs		<<with above>>		0		
Wood Flooring		<<with Interior Finishes>>		0		
Trim		<<with above>>		0		
Doors Below		<<with above>>		0		
Acoustical Treatment	1	allow	10,000	10,000		
Lift		<<with Vertical Transportation>>		0		
				Subtotal :	95,500	
Cafeteria	1	ea	1,920.00		1,920	
Cafeteria						
Cabinetry		<< assume none required >>		0		
Markerboards		<< assume none required >>		0		
Tackboards	96	sf	20.00	1,920		Four - 6' x 4' Tackboards
Tables and Chairs		<< with F, F & E>>		0		
				Subtotal Cafeteria:	1,920	
Staff Dining		<<none shown>>			0	
Kitchen	1	ea	200,480.00		200,480	
Kitchen						
Cabinetry		<< assume none required >>		0		
Markerboards		<< assume none required >>		0		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Food Service Equipment	1	allow	200,000	200,000		
Cooler / Freezer		<<with allowance>>		0		
Serving Counter		<<with allowance>>		0		
Kitchen Storage				0		
Shelving		<<with allowance>>		0		
				Subtotal Kitchen:	200,480	
Nurse's Office	1	ea	5,220.00		5,220	
Nurse's Office						
Cabinetry				0		
Base Cabinets	8	lf	250.00	2,000		
Solid Surface Countertop	8	lf	187.50	1,500		
Sink		<<with Plumbing>>		0		
Upper Cabinets	8	lf	175.00	1,400		
Markerboards		<< assume none required >>		0		
Tackboards	16	sf	20.00	320		4' x 4' Tackboard
Cubicle Curtain & Track		<< with F, F & E>>		0		
Beds		<< with F, F & E>>		0		
Desk and Chair		<< with F, F & E>>		0		
Medicine Cabinet		<< with F, F & E>>		0		
				Subtotal Nurse's Office:	5,220	
Conference Room	1	ea	6,280.00		6,280	
Conference Room						
Cabinetry				0		
Base Cabinets	8	lf	250.00	2,000		
Solid Surface Countertop	8	lf	187.50	1,500		
Upper Cabinets	8	lf	175.00	1,400		
Markerboards	24	sf	20.00	480		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Projection Screen	1	ea	400.00	400		
Table and Chairs		<< with F, F & E>>		0		
				Subtotal Conference Room:	6,280	
Security Room	1	ea	11,505.00		11,505	
Security Room						
Cabinetry				0		
Base Cabinets	6	lf	250.00	1,500		
Solid Surface Countertop	6	lf	187.50	1,125		
Solid Surface Countertop	24	lf	350.00	8,400		
Brackets		<<with above>>		0		
Upper Cabinets		<< assume none required >>		0		
Markerboards		<< assume none required >>		0		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
				Subtotal Security Room:	11,505	
General Office / Reception	1	ea	32,980.00		32,980	
General Office / Reception						
Cabinetry				0		
Base Cabinets	10	lf	250.00	2,500		
Solid Surface Countertop	16	lf	187.50	3,000		
Transaction Shelf	16	lf	125.00	2,000		
Additional Millwork Requirements	1	allow	25,000	25,000		Mailboxes, work counters
Markerboards		<< assume none required >>		0		
Tackboards	24	sf	20.00	480		6' x 4' Tackboard
Desks & chairs		<< with F, F & E>>		0		
Files		<< with F, F & E>>		0		
				Subtotal General Office / Reception:	32,980	
Admin / Guidance Offices	4	ea	1,200.00		4,800	
Admin / Guidance Offices						
Cabinetry		<< assume none required >>		0		
Adjustable Wall Shelving	1	ls	1,200.00	1,200		
Markerboards		<< assume none required >>		0		
Tackboards		<< assume none required >>		0		

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Projection Screens		<< assume none required >>		0		
Desk and Chair		<< with F, F & E>>		0		
				Subtotal Admin / Guidance Offices:	1,200	
Fire Extinguishers/Cabinets	1	allow	5,000	5,000		
Signage	99,945	gsf	0.30	29,984		
Exterior School Sign	1	allow	2,500	2,500		
Cornerstone Plaque	1	allow	750.00	750		
Flagpole	1	ea	6,500	6,500		
Appliances	1	allow	5,000	5,000		
Window Treatment				0		
Roller Shades	7,257	sf	4.50	32,659		
Motorized shades at classroom doors	36	ea	400.00	14,400		
Misc Specialties	99,945	gsf	0.25	24,986		
				Subtotal Special Requirements:	1,984,000	
				Total Special Requirements	2,087,000	
Vert. Transportation						
Building						
2-stop Hydraulic Elevator		<<assume not required>>		0		
Stage Lift	1	ea	15,000	15,000		
				Subtotal Building:	15,000	
				Total Vert. Transportation	15,000	
Plumbing						
Building						
Water service	99,945	gsf	0.26	25,986		
30,000 gal. Holding Tank		<<with Sitework>>		0		
Domestic water system				0		
Domestic Hot Water Equipment	99,945	gsf	0.50	49,973		
Hot water heating and recirculation	99,945	gsf	1.18	117,935		
Cold water piping	99,945	gsf	1.43	142,921		
Fixtures	161	ea	1,250	201,250		
				Subtotal Domestic water system	538,065	
Sanitary Piping				0		
Waste piping	99,945	gsf	1.23	123,246		
Vent piping	99,945	gsf	0.51	50,846		
				Subtotal Sanitary Piping	174,092	
				Cost per fixture	161 ea 4,423.33 712,156	
Kitchen equipment hook ups	99,945	ls	0.20	19,989		
Storm system	99,945	gsf	1.50	149,918		
Gas system	99,945	gsf	1.00	99,945		
Fire Stopping	99,945	gsf	0.30	29,984		
Temporary plumbing	99,945	gsf	0.30	29,984		
Commissioning Assistance	80	hrs	85.00	6,800		
				Subtotal Building:	1,049,000	
				Total Plumbing	1,049,000	

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Fire Protection						
Building						
Central Plant						
Incoming service	99,945	gsf	2.50		249,863	
Fire Pump and Controller		<<with above>>			0	
Jockey Pump and Controller		<<with above>>			0	
Fire Department Connections		<<with above>>			0	
Fire Hose Cabinets		<<with above>>			0	
Test Header		<<with above>>			0	
Check Valves Riser Assemblies		<<with above>>			0	
Sprinkler Control Assemblies		<<with above>>			0	
Water Flow and Tamper Alarms		<<with Electrical>>			0	
30,000 gal Holding Tank		<<with Site work>>			0	
Subtotal Central Plant:	99,945	gsf	2.50	249,863		
Wet Sprinkler heads and Piping	999	ea	250.00		249,863	assume 1 per 100 sf
Subtotal Building:	99,945	gsf	5.00	500,000		
Total Fire Protection	99,945	gsf	5.00	500,000		

HVAC & Controls

Building						
<<from Greensleaves Energy Solutions>>						
Classrooms						
3 ton WSHPs	35	ea	6,000.00		216,000	
Ductwork, Diffusers & Grilles	35	ea	3,500.00		126,000	
DOAS Unit	6	ea	32,500.00		195,000	
DOAS Ductwork	6	ea	25,000.00		150,000	
Radiant Flooring	28,800	sf	6.00		172,800	
Art & Science Rooms						
5 ton WSHPs	2	ea	7,000.00		14,000	
Ductwork, Diffusers & Grilles	2	ea	4,000.00		8,000	
DOAS Unit	1	ea	27,500.00		27,500	
DOAS Ductwork	1	ea	15,000.00		15,000	
Radiant Flooring	2,240	sf	6.00		13,440	
Gymnasium						
10 ton WSHPs	2	ea	11,000.00		22,000	
Ductwork, Diffusers & Grilles	2	ea	15,000.00		30,000	
DOAS Unit	1	ea	32,500.00		32,500	
DOAS Ductwork	1	ea	10,000.00		10,000	
Radiant Flooring	0	sf	6.00		0	
Library						
5 ton WSHPs	2	ea	7,000.00		14,000	
Ductwork, Diffusers & Grilles	2	ea	7,000.00		14,000	
DOAS Unit	1	ea	40,000.00		40,000	
DOAS Ductwork	2	ea	10,000.00		20,000	
Radiant Flooring	7,600	sf	6.00		45,600	
Cafeteria						
15 ton WSHPs	2	ea	16,000.00		32,000	
Ductwork, Diffusers & Grilles	2	ea	10,000.00		20,000	
DOAS Unit	1	ea	80,000.00		80,000	
DOAS Ductwork	1	ea	10,000.00		10,000	
Radiant Flooring	0	sf	6.00		0	
Office Area						
2 ton WSHPs	2	ea	7,000.00		14,000	
Ductwork, Diffusers & Grilles	2	ea	4,000.00		8,000	
DOAS Unit	1	ea	20,000.00		20,000	
DOAS Ductwork	2	ea	12,500.00		25,000	
Radiant Flooring	7,600	sf	6.00		45,600	
Misc Office Area						
2 ton WSHPs	4	ea	7,000.00		28,000	
Ductwork, Diffusers & Grilles	4	ea	4,000.00		16,000	
DOAS Unit	1	ea	20,000.00		20,000	
DOAS Ductwork	1	ea	12,500.00		12,500	
Radiant Flooring	5,760	sf	6.00		34,560	
Kitchen & Misc Spaces						
2 ton WSHPs	8	ea	7,000.00		56,000	
Ductwork, Diffusers & Grilles	8	ea	4,000.00		32,000	
Sidewalks					0	
Radiant Heating	13,000	sf	5.00		65,000	
Central Utilities						
Geothermal Distribution Piping	100,000	sf	2.50		250,000	
Radiant Flooring Distribution Piping	100,000	sf	2.50		250,000	
GHX	14,400	sf	17.00		244,800	
70 ton Closed Circuit Cooling Tower	1	ea	61,000.00		61,000	
40 ton WWHP's	3	ea	35,000.00		105,000	
Greensleaves Geomodule Controls	1	ea	78,001.00		78,001	
Controls	100,000	sf	1.75		175,000	
Pumps, Air Control, Etc	1	allow	55,000.00		55,000	
Antifreeze for GHX	1	allow	6,000.00		6,000	
Subtotal:	99,945	gsf	29.11	2,909,000		
Solar Energy System	1	ls	360,000		360,000	Elektron Solar Quote including ductwork
Kitchen Exhaust Fan	1	allow	15,000.00		15,000	
2nd Floor Unit Heaters	4	ea	2,500.00		10,000	
Vibration and seismic	99,945	gsf	0.75		74,959	
Fire Stopping	99,945	gsf	0.30		29,984	
Temperature controls		<<with above>>			0	
Indoor Air Quality Monitoring - All	1	ls	200,000		200,000	
Testing and balancing	99,945	gsf	0.75		74,959	
Temporary heating and cooling	99,945	gsf	2.50		249,863	
Temporary Units		<<with above>>			0	
Installation/maintenance		<<with above>>			0	
Commissioning Assistance	140	hrs	95.00		13,300	
Subtotal Building:	99,945	gsf	39.39	3,937,000		

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Total HVAC & Controls	99,945	gsf	39.39	3,937,000		

NEW BUILDING PROTOTYPE

Item	Quantity	Unit	Cost	Subtotal	Total	Remarks
Electrical						
Building						
Service entrance	99,945	gsf	0.75		74,959	
Secondary distribution	99,945	gsf	2.45		244,865	
Equipment connections	99,945	gsf	1.75		174,904	
Emergency power	99,945	gsf	2.00		199,890	
250 kw Generator		<<with Sitework>>			0	
Fitout						
Power outlets and wiring	99,945	gsf	1.55		164,909	
Lighting	99,945	gsf	6.00		599,670	
Classroom, Gym, Cafeteria		<<with skylights>>			0	
Fire alarm	99,945	gsf	2.80		279,846	
Special Sound Systems	99,945	gsf	0.40		39,978	
Telephone and data	99,945	gsf	1.80		179,901	
Audio/Visual	99,945	gsf	1.20		119,934	
Security						
Security System	1	ls	8,126		8,126	United Alarm Quote
Video Surveillance System	1	ls	64,726		64,726	United Alarm Quote
Panic Buttons System	1	ls	17,126		17,126	United Alarm Quote
Safe Room Communication System	1	ls	53,526		53,526	United Alarm Quote
Access Control System	1	ls	89,300		89,300	United Alarm Quote
ClassroomDoor Hardware		<<with above>>			0	
Master Clock	99,945	gsf	2.33	232,804		
Public Address System	99,945	gsf	0.40		39,978	
Subtotal Fitout	99,945	gsf	15.98	1,696,998		
Grounding System	99,945	gsf	0.35		34,981	
Lightning Protection	99,945	gsf	0.35		34,981	
Kitchen equipment hook ups	99,945	gsf	0.20		19,989	
Fire Stopping	99,945	gsf	0.30		29,984	
Temporary power	99,945	gsf	0.30		29,984	
Commissioning Assistance	99,945	gsf	0.20		19,989	
Subtotal Building	99,945	gsf	25.63	2,562,000		
Total Electrical	99,945	gsf	25.62	2,561,000		
Sitework						
		<<separate>>				
Total Sitework	99,945	gsf	0.00	0		
Off-Site Work						
		<<separate>>				
Subtotal Direct Work	99,945	gsf	261.55	26,141,000		
Escalation	26,141,000	\$\$s	5.00%		1,307,000	
Design Contingency	27,448,000	\$\$s	10.00%		2,745,000	
Construction Contingency	30,193,000	\$\$s	5.00%		1,510,000	
Construction Managers Services	31,703,000	\$\$s	10.00%		3,170,000	
State Permit Fee	34,873,000	\$\$s	0.026%		9,000	
Town Permit Fee		<<assume not required>>			0	
TOTAL	99,945	gsf	349.01	34,882,000		

Sandy Hook Elementary School
Newtown, CT

Site 1a -12 Dickinson Drive
(Entry and Exit from Crestwood Drive)

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
ON SITE CONSTRUCTION					
SURVEY AND LAYOUT					
OFFICE FILE PREP	30	HR	90.41	2,712	
FIELD LAYOUT	120	HR	189.63	22,756	
SITE REMOVALS					
REMOVE BITUMINOUS PAVING	140000	SF	0.12	16,800	
BITUMINOUS CURB	7500	LF	0.24	1,800	
REMOVE LIGHT POLE	10	EA	91.73	917	
REMOVE FENCE	3000	LF	2.55	7,650	
REMOVE CONCRETE PAVING	15000	SF	0.52	7,800	
REMOVE SIGN	25	EA	45.88	1,147	
REMOVE STORM PIPING	3000	LF	5.61	16,830	
REMOVE SANITARY PIPING	500	LF	5.61	2,805	
REMOVE WATER PIPING	500	LF	5.61	2,805	
REMOVE STORM STRUCTURE	20	EA	435.12	8,702	
SAW CUTTING	1000	LF	1.83	1,830	
CLEAR AND GRUB	10	DY	3,563.28	35,633	
E & S					
CONSTRUCTION ENTRANCE	6000	SF	1.39	8,340	
SILT FENCE	5000	LF	2.66	13,300	
HAY BALES	3000	LF	5.75	17,250	
INLET PROTECTION	20	EA	136.05	2,721	
EROSION CONTROL BLANKET	75000	SF	0.27	20,250	
SWEEPING AND DUST CONTROL MAINTENANCE	52	WK	346.92	18,040	
52	WK	133.40	6,937		
MASS EARTH WORK					
STRIP TOPSOIL	3500	CY	2.43	8,505	
STRIP AND STOCKPILE RECLAIMED ROADWAY CUTS					
CUTS	2600	CY	2.90	7,540	
99500	CY	2.90	288,550		
FILLS	4200	CY	3.87	16,254	
MASS ROCK BLASTING ALLOWANCE (60% OF TOTAL CUTS)					
ADJUST TO 30% OF TOTAL CUTS	59700	CY	5.78	345,066	
TRENCH ROCK BLASTING ALLOWANCE	-29850	CY	5.78	(172,533)	
EXPORT AND DISPOSAL	2000	CY	12.12	24,240	
95300	CY	12.34	1,176,002		
STORM					
MAN HOLE	1	EA	2,824.61	2,825	
CATCH BASINS	8	EA	2,597.93	20,783	
DOUBLE CATCH BASIN	4	EA	4,703.27	18,813	
WATER QUALITY UNIT	1	EA	27,022.64	27,023	
6" UNDER DRAIN	600	LF	29.03	17,418	
15" HDPE	600	LF	32.98	19,788	
24" HDPE	920	LF	44.28	40,738	
15" HOOD	8	EA	507.15	4,057	
24" HOOD	4	EA	507.15	2,029	
6" CLEAN OUT	6	EA	341.78	2,051	
BEDDING	471	CY	19.85	9,352	
ROOF LEADER CONNECTIONS	1	ALLOW	10,000	10,000	
STORM DETENTION POND (COMPLETE)	1	LS	40,000	40,000	
SANITARY SEWER					
8" PVC SCH-35	950	LF	37.26	35,397	
TIE INTO EXISTING (CORE AND RECONSTRUCT INVERT)					
MANHOLE	1	EA	1,504.77	1,505	
4	EA	3,254.58	13,018		
3000 GALLON GREASE TRAP	1	EA	5,768.28	5,768	
STONE BEDDING	211	CY	28.67	6,053	
SAND COVER	211	CY	19.85	4,191	
WATER					
10" DIP CL-54	1100	LF	81.33	89,463	
ADDITIONAL LOOP PIPING	500	LF	81.33	40,665	
6" DIP CL-54	150	LF	58.48	8,772	
2" COPPER SERVICE	50	LF	40.73	2,037	
2" SHUT OFF	2	EA	446.51	893	
6" GATE VALVE	4	EA	1,125.65	4,503	
10" GATE VALVE	2	EA	2,401.25	4,803	
10" BENDS	6	EA	479.59	2,878	
10" TEE	4	EA	562.28	2,249	
6" HYDRANT	2	EA	2,734.94	5,470	

Sandy Hook Elementary School
Newtown, CT

Site 1a -12 Dickinson Drive
(Entry and Exit from Crestwood Drive)

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
THRUST BLOCKS					
10" SOLID SLEEVE	18	EA	226.38	4,075	
8" BLOW OFF	1	EA	560.07	560	
2" TAP	1	EA	218.66	219	
2" IRRIGATION PIT	3	EA	301.35	904	
TESTING	1	EA	1,171.80	1,172	
SAND COVER	1750	LF	2.48	4,340	
267	CY	19.85	5,293		
GAS SERVICES					
EXCAVATION, BEDDING & BACKFILL PIPING	900	LF	30.00	27,000	
<<BY UTILITY COMPANY>>					
ELECTRIC					
TRENCHING	300	LF	9.42	2,826	
BOLLARDS @ TRANSFORMER PAD	12	EA	546.84	6,562	
TRANSFORMER PAD	1	EA	2,856.21	2,856	
CONCRETE ENCASEMENT	10	CY	129.80	1,298	
PULL BOXES	1	EA	766.61	767	
ELECTRICAL CONDUIT (4 - 4")	300	LF	60.00	18,000	
GENERATOR	1	LS	100,000	100,000	
SITE LIGHTING					
TRENCHING	2000	LF	10.01	20,020	
CONDUIT AND WIRING	2000	LF	6.00	12,000	
POLES WIRING AND FIXTURES	17	EA	3,520.00	59,840	
POLE BASES	17	EA	660.88	11,235	
BUILDING PAD READY					
OVER EXCAVATION AND REPLACEMENT IN SOUTHWEST CORNER OF BUILDING	2000	CY	34.48	68,960	
INSTALL 12" STONE BASE TO 6" BELOW FINISH GRADE	1700	CY	32.47	55,199	
RETAINING WALL A					
EXCAVATION	350	LF	19.70	6,895	
INSTALL GRAVITY BLOCK WALL	4500	SF	28.64	128,880	
STRUCTURAL BACKFILL	1250	CY	22.05	27,563	
RETAINING WALL B					
EXCAVATION	130	LF	19.70	2,561	
INSTALL GRAVITY BLOCK WALL	1300	SF	28.64	37,232	
STRUCTURAL BACKFILL	290	CY	22.05	6,395	
RETAINING WALL C					
EXCAVATION	150	LF	19.70	2,955	
INSTALL BLOCK WALL WITH GEO GRID	900	SF	18.72	16,848	
STRUCTURAL BACKFILL	150	CY	22.05	3,308	
PAVING PREPARATION					
SUB GRADE	140000	SF	0.48	67,200	
INSTALL 8" STONE SUB BASE (RECLAIMED ON SITE)	2000	CY	3.04	6,080	
INSTALL 8" STONE SUB BASE	1474	CY	27.29	40,227	
INSTALL 4" STONE BASE	1711	CY	29.50	50,478	
FIRE ACCESS PAVING PREPARATION					
SUB GRADE	10000	SF	0.48	4,800	
INSTALL 8" STONE SUB BASE	248	CY	3.04	754	
INSTALL 4" STONE BASE	122	CY	29.50	3,606	
PAVING					
FINE GRADE	140000	SF	0.11	15,400	
INSTALL 2" BINDER	1851	TN	95.24	176,300	
INSTALL 2" FIRE ACCESS PAVING	132	TN	100.76	13,323	
SWEEP AND TACK	140000	SF	0.06	8,400	
INSTALL 1 1/2" TOP COURSE	1416	TN	100.65	142,476	
PAVING MARKINGS AND SIGNS					
MARKINGS	1	EA	5,508.75	5,509	
SIGNS	1	EA	4,957.50	4,958	
LANDSCAPING PREPARATION					
SCREEN TOPSOIL	3000	CY	5.86	17,580	
SPREAD TOPSOIL	3000	CY	7.83	23,490	
SHAPE AND GRADE RAIN GARDEN 1 (BUDGETED FOR MISC PROVISIONS)					
SHAPE AND GRADE RAIN GARDEN 2 (BUDGETED FOR MISC PROVISIONS)	2000	SF	2.79	5,580	
1800	SF	2.79	5,022		
SHAPE AND GRADE STORM WATER DETENTION BASIN 1 (BUDGETED FOR MISC PROVISIONS)					
6000	SF	1.95	11,700		

**Sandy Hook Elementary School
Newtown, CT**

**Site 1a -12 Dickinson Drive
(Entry and Exit from Crestwood Drive)**

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
SHAPE AND GRADE STROM WATER DETENTION BASIN 2 (BUDGETED FOR MISC PROVISIONS)	6000	SF	1.95	11,700	
LANDSCAPING PLANTINGS, MULCH, SEEDING IRRIGATION SYSTEM	1 ALLOW		150,000.00	150,000	
			<<WITH ABOVE>>		
			<<ASSUME NOT REQUIRED>>		
PLAYSCAPE PREPARATION				Total	\$13,343
SUB GRADE	5000	SF	0.48	2,400	
INSTALL 6" BANK RUN GRAVEL	93	CY	32.63	3,021	
INSTALL 4" TOP SOIL	61	CY	7.20	440	
INSTALL EDGING	300	LF	16.50	4,950	
INSTALL 6" WOOD CHIPS	93	CY	27.34	2,531	
PLAYSCAPE				Total	\$115,000
PRE-K	1	LS	75,000	75,000	
K-5	1	LS	40,000	40,000	
SOCCER FIELD				Total	\$22,374
SUB GRADE	24000	SF	0.24	5,760	
INSTALL 6" BANK RUN GRAVEL	444	CY	32.63	14,502	
INSTALL 4" TOP SOIL	293	CY	7.20	2,112	
BASKETBALL - HALF COURT SURFACE HOOP				Total	\$26,500
SURFACE	5000	SF	5.00	25,000	
HOOP	1	EA	1,500.00	1,500	
SECURE COURTYARDS				Total	\$112,047
PRE-K COURTYARD:					
SUB GRADE	9757	SF	0.24	2,342	
INSTALL 6" BANK RUN GRAVEL	181	CY	32.63	5,896	
6" WOOD CHIPS	181	CY	27.34	4,940	
AREA DRAINS	4	EA	2,000	8,000	
FENCING	135	LF	65	8,775	
CLASSROOM COURTYARDS:					
SUB GRADE	3940	SF	0.24	946	
INSTALL 6" BANK RUN GRAVEL	73	CY	32.63	2,381	
ASPHALT WITH RESILIENT COATING	3940	SF	6.00	23,640	
AREA DRAINS	8	EA	2,000	16,000	
INTERIOR COURTYARDS:					
SUB GRADE	6240	SF	0.24	1,978	
INSTALL 6" BANK RUN GRAVEL	153	CY	32.63	4,979	
6" WOOD CHIPS	153	CY	27.34	4,172	
AREA DRAINS	8	EA	2,000	16,000	
WOOD BENCHES	8	EA	1,500	12,000	
FENCE AND GUIDE RAIL				Total	\$151,955
4" CLF AT WALLS	500	LF	21.45	10,725	
6" CLF AT PERIMETER OF SITE	3500	LF	28.60	100,100	
GUIDE RAIL	300	LF	39.60	11,880	
DECORATIVE FENCE AT BUS DROP-OFF	450	LF	65.00	29,250	
SITE CONCRETE				Total	\$232,162
CONCRETE CURB	8100	LF	17.62	142,722	
CONCRETE SIDEWALK	13000	SF	6.88	89,440	
GEOHERMAL WELLS				Total	\$100,000
1 ALLOW			100,000	100,000	
SITWORK RELATED WELLS & PIPING WELLS			<<with above>>		
			<<with HVAC>>		
OTHER				Total	\$330,000
GENERAL REQUIREMENTS	1	LS	150,000	150,000	
TEMPORARY FENCING	1	LS	85,000	85,000	
BOND (2%)				95,000	
SUBTOTAL SITWORK				\$4,857,000	
ESCALATION	\$4,857,000	\$\$s	5%		243,000
DESIGN CONTINENCY	\$5,100,000	\$\$s	10%		510,000
CONSTRUCTION CONTINGENCY	\$5,610,000	\$\$s	5%		281,000
CONSTRUCTION MANAGERS SERVICES	\$5,891,000	\$\$s	10%		589,000
STATE PERMIT FEE	\$6,480,000	\$\$s	0.03%		2,000
LOCAL PERMIT FEE			<<assume not required>>		
TOTAL SITWORK					\$6,482,000

Exclusions
1 SPECIAL PERMITS AND FEES

**Sandy Hook Elementary School
Newtown, CT**

**Site 1a -12 Dickinson Drive
(Entry and Exit from Crestwood Drive)**

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
2 HAZARDOUS OR CONTAMINATED MATERIALS AND OR SOILS					
3 IRRIGATION					
OFF SITE CONSTRUCTION				Total	\$42,934
STORM				Total	\$42,934
CATCH BASINS	4	EA	3,056.40	12,225.60	
DOUBLE CATCH BASIN	2	EA	5,216.00	10,432.00	
TIE INTO EXISTING	1	EA	1,308.00	1,308.00	
12" RCP	200	LF	39.38	7,876.00	
15" RCP	200	LF	40.38	8,076.00	
12" HOOD	1	EA	460.00	460.00	
15" HOOD	3	EA	460.00	1,380.00	
BEDDING	59	CY	19.85	1,176.30	
SITE REMOVALS				Total	\$5,545
MILL 2" OF BITUMINOUS PAVING	10000	SF	0.28	2,800.00	
REMOVE BITUMINOUS CURB	500	LF	1.83	915.00	
SAW CUTTING	1000	LF	1.83	1,830.00	
MASS EARTH WORK				Total	\$80,340
CUTS	1000	CY	10.73	10,730.00	
SITE LINE MODIFICATIONS	1	EA	55,000	55,000.00	
FILLS	0	CY	3.02	-	
EXPORT AND DISPOSAL	1000	CY	14.61	14,610.00	
PAVING PREPARATION				Total	\$14,019
SUB GRADE	10000	SF	0.20	2,000.00	
INSTALL 12" STONE BASE	407	CY	29.50	12,018.52	
PAVING				Total	\$42,820
FINE GRADE	10000	SF	0.11	1,100.00	
INSTALL 2" BINDER	132	TN	98.55	13,030.50	
SWEEP AND TACK	20000	SF	0.06	1,200.00	
INSTALL 2" TOP COURSE	264	TN	103.95	27,489.00	
MARKINGS, SIGNS, TRAFFIC CONTROL				Total	\$31,452
MARKINGS	1	EA	1,100.00	1,100.00	
SIGNS	1	EA	1,100.00	1,100.00	
TEMPORARY TRAFFIC CONTROL	1	EA	3,850.00	3,850.00	
POLICE TRAFFIC CONTROL	20	DY	1,270.08	25,401.60	
TOPSOIL				Total	\$1,292
PLACE TOPSOIL	75	CY	17.23	1,292.25	
REMOVAL OF DICKSON DRIVE				Total	\$80,452
RECLAIM ASPHALT	22000	SF	0.17	3,740.00	
REGRADE	22000	SF	0.26	5,720.00	
INSTALL GRASS PAVERS	14400	LF	4.93	70,992.00	
WIDEN WASHINGTON AVENUE				Total	\$133,786
REMOVE BITUMINOUS PAVING	14280	SF	0.12	1,714	
REGRADE	14280	SF	0.26	3,713	
SUB GRADE	14280	SF	0.20	2,856	
INSTALL 12" STONE BASE	582	CY	26.46	15,394	
FINE GRADE	14280	SF	0.11	1,571	
INSTALL 2" BINDER	189	TN	88.20	16,653	
SWEEP AND TACK	14280	SF	0.06	857	
INSTALL 2" TOP COURSE	189	TN	93.71	17,694	
MARKINGS	1	EA	1,100.00	1,100	
SIGNS	1	EA	1,100.00	1,100	
TEMPORARY TRAFFIC CONTROL	3	EA	3,850.00	11,550	
POLICE TRAFFIC CONTROL	10	DY	1,270.08	12,701	
CATCH BASINS	6	EA	2,250.00	13,500	
15" RCP	510	LF	13.50	6,885	
BEDDING	76	CY	19.85	1,500	
LANDSCAPING	1	LS	25,000	25,000	
GAS SERVICES				Total	\$13,500
EXCAVATION, BEDDING & BACKFILL	450	LF	30.00	13,500.00	
PIPING			<<BY UTILITY COMPANY>>		
SUBTOTAL OFF SITE CONSTRUCTION				\$446,000	
ESCALATION	\$446,000	\$\$s	5%		\$22,000
DESIGN CONTINENCY	\$468,000	\$\$s	10%		\$47,000

Sandy Hook Elementary School
Newtown, CT

Site 1a -12 Dickinson Drive
(Entry and Exit from Crestwood Drive)

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
CONSTRUCTION CONTINGENCY	\$515,000	\$\$'s	5%		\$26,000
CONSTRUCTION MANAGERS SERVICES	\$541,000	\$\$'s	10%		\$54,000
STATE PERMIT FEE	\$595,000	\$\$'s	0.03%		\$0
LOCAL PERMIT FEE	<<assume not required>>				
TOTAL OFF SITE CONSTRUCTION					\$595,000

Sandy Hook Elementary School
Newtown, CT

Site 1b -12 Dickinson Drive
Entry on Crestwood and Exit from Dickinson

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
ON SITE CONSTRUCTION			-	Total	\$4,881,000
SURVEY AND LAYOUT			-	Total	\$25,468
OFFICE FILE PREP	30	HR	90.41	2,712	
FIELD LAYOUT	120	HR	189.63	22,756	
SITE REMOVALS			-	Total	\$104,719
REMOVE BITUMINOUS PAVING	140000	SF	0.12	16,800	
BITUMINOUS CURB	7500	LF	0.24	1,800	
REMOVE LIGHT POLE	10	EA	91.73	917	
REMOVE FENCE	3000	LF	2.55	7,650	
REMOVE CONCRETE PAVING	15000	SF	0.52	7,800	
REMOVE SIGN	25	EA	45.86	1,147	
REMOVE STORM PIPING	3000	LF	5.61	16,830	
REMOVE SANITARY PIPING	500	LF	5.61	2,805	
REMOVE WATER PIPING	500	LF	5.61	2,805	
REMOVE STORM STRUCTURE	20	EA	435.12	8,702	
SAW CUTTING	1000	LF	1.83	1,830	
CLEAR AND GRUB	10	DY	3,563.28	35,633	
E & S			-	Total	\$86,838
CONSTRUCTION ENTRANCE	6000	SF	1.39	8,340	
SILT FENCE	5000	LF	2.66	13,300	
HAY BALES	3000	LF	5.75	17,250	
INLET PROTECTION	20	EA	136.05	2,721	
EROSION CONTROL BLANKET	75000	SF	0.27	20,250	
SWEEPING AND DUST CONTROL	52	WK	346.92	18,040	
MAINTENANCE	52	WK	133.40	6,937	
MASS EARTH WORK			-	Total	\$1,693,624
STRIP TOPSOIL	3500	CY	2.43	8,505	
STRIP AND STOCKPILE RECLAIMED ROADWAY CUTS	2600	CY	2.90	7,540	
CUTS	99500	CY	2.90	288,550	
FILLS	4200	CY	3.87	16,254	
MASS ROCK BLASTING ALLOWANCE (60% OF TOTAL CUTS)	59700	CY	5.78	345,066	
ADJUST TO 30% OF TOTAL CUTS	-29850	CY	5.78	(172,533)	
TRENCH ROCK BLASTING ALLOWANCE EXPORT AND DISPOSAL	2000	CY	12.12	24,240	
95300	CY	12.34	1,176,002		
STORM			-	Total	\$214,875
MAN HOLE	1	EA	2,824.61	2,825	
CATCH BASINS	8	EA	2,597.93	20,783	
DOUBLE CATCH BASIN	4	EA	4,703.27	18,813	
WATER QUALITY UNIT	1	EA	27,022.64	27,023	
6" UNDER DRAIN	600	LF	29.03	17,418	
15" HDPE	600	LF	32.98	19,788	
24" HDPE	920	LF	44.28	40,738	
15" HOOD	8	EA	507.15	4,057	
24" HOOD	4	EA	507.15	2,029	
6" CLEAN OUT	6	EA	341.78	2,051	
BEDDING	471	CY	19.85	9,352	
ROOF LEADER CONNECTIONS	1	ALLOW	10,000	10,000	
STORM DETENTION POND (COMPLETE)	1	LS	40,000	40,000	
SANITARY SEWER			-	Total	\$65,931
8" PVC SCH-35	950	LF	37.26	35,397	
TIE INTO EXISTING (CORE AND RECONSTRUCT INVERT)	1	EA	1,504.77	1,505	
MANHOLE	4	ea	3,254.58	13,018	
3000 GALLON GREASE TRAP	1	EA	5,768.28	5,768	
STONE BEDDING	211	CY	28.67	6,053	
SAND COVER	211	CY	19.85	4,191	
WATER			-	Total	\$178,294
10" DIP CL-54	1100	LF	81.33	89,463	
ADDITIONAL LOOP PIPING	500	LF	81.33	40,665	
6" DIP CL-54	150	LF	58.48	8,772	
2" COPPER SERVICE	50	LF	40.73	2,037	
2" SHUT OFF	2	EA	446.51	893	
6" GATE VALVE	4	EA	1,125.65	4,503	
10" GATE VALVE	2	EA	2,401.25	4,803	
10" BENDS	6	EA	479.59	2,878	
10" TEE	4	EA	562.28	2,249	
6" HYDRANT	2	EA	2,734.94	5,470	
THRUST BLOCKS	18	EA	226.38	4,075	

Sandy Hook Elementary School
Newtown, CT

Site 1b -12 Dickinson Drive
Entry on Crestwood and Exit from Dickinson

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
10" SOLID SLEEVE	1	EA	560.07	560	
8" BLOW OFF	1	EA	218.66	219	
2" TAP	3	EA	301.35	904	
2" IRRIGATION PIT	1	EA	1,171.80	1,172	
TESTING	1750	LF	2.48	4,340	
SAND COVER	267	CY	19.85	5,293	
GAS SERVICES			-	Total	\$27,000
EXCAVATION, BEDDING & BACKFILL PIPING	900	LF	30.00	27,000	
<<BY UTILITY COMPANY>>			-		
ELECTRIC			-	Total	\$132,309
TRENCHING	300	LF	9.42	2,826	
BOLLARDS @ TRANSFORMER PAD	12	EA	546.84	6,562	
TRANSFORMER PAD	1	EA	2,856.21	2,856	
CONCRETE ENCASEMENT	10	CY	129.80	1,298	
PULL BOXES	1	EA	766.61	767	
ELECTRICAL CONDUIT (4 - 4")	300	LF	60.00	18,000	
GENERATOR	1	LS	100,000	100,000	
SITE LIGHTING			-	Total	\$103,095
TRENCHING	2000	LF	10.01	20,020	
CONDUIT AND WIRING	2000	LF	6.00	12,000	
POLES WIRING AND FIXTURES	17	EA	3,520.00	59,840	
POLE BASES	17	EA	660.88	11,235	
BUILDING PAD READY			-	Total	\$124,159
OVER EXCAVATION AND REPLACEMENT IN SOUTHWEST CORNER OF BUILDING	2000	CY	34.48	68,960	
INSTALL 12" STONE BASE TO 6" BELOW FINISH GRADE	1700	CY	32.47	55,199	
RETAINING WALL A			-	Total	\$163,338
EXCAVATION	350	LF	19.70	6,895	
INSTALL GRAVITY BLOCK WALL	4500	SF	28.64	128,880	
STRUCTURAL BACKFILL	1250	CY	22.05	27,563	
RETAINING WALL B			-	Total	\$46,188
EXCAVATION	130	LF	19.70	2,561	
INSTALL GRAVITY BLOCK WALL	1300	SF	28.64	37,232	
STRUCTURAL BACKFILL	290	CY	22.05	6,395	
RETAINING WALL C			-	Total	\$23,111
EXCAVATION	150	LF	19.70	2,955	
INSTALL BLOCK WALL WITH GEO GRID	900	SF	18.72	16,848	
STRUCTURAL BACKFILL	150	CY	22.05	3,308	
PAVING PREPARATION			-	Total	\$163,985
SUB GRADE	140000	SF	0.48	67,200	
INSTALL 8" STONE SUB BASE (RECLAIMED ON SITE)	2000	CY	3.04	6,080	
INSTALL 8" STONE SUB BASE	1474	CY	27.29	40,227	
INSTALL 4" STONE BASE	1711	CY	29.50	50,478	
FIRE ACCESS PAVING PREPARATION			-	Total	\$9,160
SUB GRADE	10000	SF	0.48	4,800	
INSTALL 8" STONE SUB BASE	248	CY	3.04	754	
INSTALL 4" STONE BASE	122	CY	29.50	3,606	
PAVING			-	Total	\$355,898
FINE GRADE	140000	SF	0.11	15,400	
INSTALL 2" BINDER	1851	TN	95.24	176,300	
INSTALL 2" FIRE ACCESS PAVING	132	TN	100.76	13,323	
SWEEP AND TACK	140000	SF	0.06	8,400	
INSTALL 1 1/2" TOP COURSE	1416	TN	100.65	142,476	
PAVING MARKINGS AND SIGNS			-	Total	\$10,466
MARKINGS	1	EA	5,508.75	5,509	
SIGNS	1	EA	4,957.50	4,958	
LANDSCAPING PREPARATION			-	Total	\$225,072
SCREEN TOPSOIL	3000	CY	5.86	17,580	
SPREAD TOPSOIL	3000	CY	7.83	23,490	
SHAPE AND GRADE RAIN GARDEN 1 (BUDGETED FOR MISC PROVISIONS)	2000	SF	2.79	5,580	
SHAPE AND GRADE RAIN GARDEN 2 (BUDGETED FOR MISC PROVISIONS)	1800	SF	2.79	5,022	
SHAPE AND GRADE STORM WATER DETENTION BASIN 1 (BUDGETED FOR MISC PROVISIONS)	6000	SF	1.95	11,700	
SHAPE AND GRADE STORM WATER DETENTION BASIN 2 (BUDGETED FOR MISC PROVISIONS)	6000	SF	1.95	11,700	
LANDSCAPING	1	ALLOW	150,000	150,000	

Sandy Hook Elementary School
Newtown, CT

Site 1b -12 Dickinson Drive
Entry on Crestwood and Exit from Dickinson

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
PLANTINGS, MULCH, SEEDING	<<WITH ABOVE>>				
IRRIGATION SYSTEM	<<ASSUME NOT REQUIRED>>				
PLAYSCAPE PREPARATION				Total	\$13,343
SUB GRADE	5000	SF	0.48	2,400	
INSTALL 6" BANK RUN GRAVEL	93	CY	32.63	3,021	
INSTALL 4" TOP SOIL	61	CY	7.20	440	
INSTALL EDGING	300	LF	16.50	4,950	
INSTALL 6" WOOD CHIPS	93	CY	27.34	2,531	
PLAYSCAPE				Total	\$115,000
PRE-K	1	LS	75,000	75,000	
K-5	1	LS	40,000	40,000	
SOCCER FIELD				Total	\$22,374
SUB GRADE	24000	SF	0.24	5,760	
INSTALL 6" BANK RUN GRAVEL	444	CY	32.63	14,502	
INSTALL 4" TOP SOIL	293	CY	7.20	2,112	
BASKETBALL - HALF COURT				Total	\$26,500
SURFACE	5000	SF	5.00	25,000	
HOOP	1	EA	1,500.00	1,500	
SECURE COURTYARDS				Total	\$112,047
PRE-K COURTYARD:					
SUB GRADE	9757	SF	0.24	2,342	
INSTALL 6" BANK RUN GRAVEL	181	CY	32.63	5,896	
6" WOOD CHIPS	181	CY	27.34	4,940	
AREA DRAINS	4	EA	2,000	8,000	
FENCING	135	LF	65	8,775	
CLASSROOM COURTYARDS:					
SUB GRADE	3940	SF	0.24	946	
INSTALL 6" BANK RUN GRAVEL	73	CY	32.63	2,381	
ASPHALT WITH RESILIENT COATING	3940	SF	6.00	23,640	
AREA DRAINS	8	EA	2,000	16,000	
INTERIOR COURTYARDS:					
SUB GRADE	8240	SF	0.24	1,978	
INSTALL 6" BANK RUN GRAVEL	153	CY	32.63	4,979	
6" WOOD CHIPS	153	CY	27.34	4,172	
AREA DRAINS	8	EA	2,000	16,000	
WOOD BENCHES	8	EA	1,500	12,000	
SECURE COURTYARDS				Total	\$30,054
SUB GRADE	22253	SF	0.24	5,341	
INSTALL 6" BANK RUN GRAVEL	412	CY	32.63	13,447	
RECYCLED RUBBER 6" WOOD CHIPS	412	CY	27.34	11,267	
FENCE AND GUIDE RAIL				Total	\$145,205
4' CLF AT WALLS	500	LF	21.45	10,725	
6' CLF AT PERIMETER OF SITE	3500	LF	28.60	100,100	
GUIDE RAIL	300	LF	39.60	11,880	
DECORATIVE FENCE AT BUS DROP-OFF	450	LF	50.00	22,500	
SITE CONCRETE				Total	\$232,162
CONCRETE CURB	8100	LF	17.62	142,722	
CONCRETE SIDEWALK	13000	SF	6.88	89,440	
GEOHERMAL WELLS	1	ALLOW	100,000	100,000	\$100,000
SITWORK RELATED WELLS & PIPING	<<with above>>				
WELLS	<<with HVAC>>				
OTHER				Total	\$331,000
GENERAL REQUIREMENTS	1	LS	150,000	150,000	
TEMPORARY FENCING	1	LS	85,000	85,000	
BOND (2%)				96,000	
SUBTOTAL SITWORK				\$4,881,000	
ESCALATION	\$4,881,000	\$\$s	5%	244,000	
DESIGN CONTINENCY	\$5,125,000	\$\$s	10%	513,000	
CONSTRUCTION CONTINGENCY	\$5,638,000	\$\$s	5%	282,000	
CONSTRUCTION MANAGERS SERVICES	\$5,920,000	\$\$s	10%	592,000	
STATE PERMIT FEE	\$6,512,000	\$\$s	0.03%	2,000	
LOCAL PERMIT FEE	<<assume not required>>				
TOTAL SITWORK					\$6,514,000

Exclusions

- SPECIAL PERMITS AND FEES
- HAZARDOUS OR CONTAMINATED MATERIALS AND OR SOILS

Sandy Hook Elementary School
Newtown, CT

Site 1b -12 Dickinson Drive
Entry on Crestwood and Exit from Dickinson

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
3 IRRIGATION					
OFF SITE CONSTRUCTION					
STORM				Total	\$42,934
CATCH BASINS	4	EA	3,056.40	12,225.60	
DOUBLE CATCH BASIN	2	EA	5,216.00	10,432.00	
TIE INTO EXISTING	1	EA	1,308.00	1,308.00	
12" RCP	200	LF	39.38	7,876.00	
15" RCP	200	LF	40.38	8,076.00	
12" HOOD	1	EA	460.00	460.00	
15" HOOD	3	EA	460.00	1,380.00	
BEDDING	59	CY	19.85	1,176.30	
SITE REMOVALS				Total	\$5,545
MILL 2" OF BITUMINOUS PAVING	10000	SF	0.28	2,800.00	
REMOVE BITUMINOUS CURB	500	LF	1.83	915.00	
SAW CUTTING	1000	LF	1.83	1,830.00	
MASS EARTH WORK				Total	\$80,340
CUTS	1000	CY	10.73	10,730.00	
SITE LINE MODIFICATIONS	1	EA	55,000	55,000.00	
FILLS	0	CY	3.02	-	
EXPORT AND DISPOSAL	1000	CY	14.61	14,610.00	
PAVING PREPARATION				Total	\$14,019
SUB GRADE	10000	SF	0.20	2,000.00	
INSTALL 12" STONE BASE	407	CY	29.50	12,018.52	
PAVING				Total	\$42,820
FINE GRADE	10000	SF	0.11	1,100.00	
INSTALL 2" BINDER	132	TN	98.55	13,030.50	
SWEEP AND TACK	20000	SF	0.06	1,200.00	
INSTALL 2" TOP COURSE	264	TN	103.95	27,489.00	
MARKINGS, SIGNS, TRAFFIC CONTROL				Total	\$31,452
MARKINGS	1	EA	1,100.00	1,100.00	
SIGNS	1	EA	1,100.00	1,100.00	
TEMPORARY TRAFFIC CONTROL	1	EA	3,850.00	3,850.00	
POLICE TRAFFIC CONTROL	20	DY	1,270.08	25,401.60	
TOPSOIL				Total	\$1,292
PLACE TOPSOIL	75	CY	17.23	1,292.25	
BOULEVARD AT DICKENSON DRIVE				Total	\$200,000
Upgrade Dickenson Drive	1	LS	200,000	200,000	
WIDEN WASHINGTON AVENUE				Total	\$84,606
REMOVE BITUMINOUS PAVING	8568	SF	0.12	1,028	
REGRADE	8568	SF	0.26	2,228	
SUB GRADE	8568	SF	0.20	1,714	
INSTALL 12" STONE BASE	349	CY	26.46	9,236	
FINE GRADE	8568	SF	0.11	942	
INSTALL 2" BINDER	113	TN	88.20	9,992	
SWEEP AND TACK	8568	SF	0.06	514	
INSTALL 2" TOP COURSE	113	TN	93.71	10,616	
MARKINGS	1	EA	1,100.00	1,100	
SIGNS	1	EA	1,100.00	1,100	
TEMPORARY TRAFFIC CONTROL	3	EA	3,850.00	11,550	
POLICE TRAFFIC CONTROL	10	DY	1,270.08	12,701	
CATCH BASINS	6	EA	2,250.00	13,500	
15" RCP	510	LF	13.50	6,885	
BEDDING	76	CY	19.85	1,500	
GAS SERVICES				Total	\$13,500
EXCAVATION, BEDDING & BACKFILL	450	LF	30.00	13,500.00	
PIPING	<<BY UTILITY COMPANY>>				
SUBTOTAL OFF SITE CONSTRUCTION					\$517,000
ESCALATION	\$517,000	\$\$s	5%	\$26,000	
DESIGN CONTINENCY	\$543,000	\$\$s	10%	\$54,000	
CONSTRUCTION CONTINGENCY	\$597,000	\$\$s	5%	\$30,000	
CONSTRUCTION MANAGERS SERVICES	\$627,000	\$\$s	10%	\$63,000	
STATE PERMIT FEE	\$690,000	\$\$s	0.03%	\$0	
LOCAL PERMIT FEE	<<assume not required>>				

**Sandy Hook Elementary School
Newtown, CT**

**Site 1b -12 Dickinson Drive
Entry on Crestwood and Exit from Dickinson**

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
TOTAL OFF SITE CONSTRUCTION					\$690,000

Sandy Hook Elementary School
Newtown, CT

Site 2 - 7,8 & 10 Bennett's Bridge Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total	
ON SITE CONSTRUCTION						
SURVEY AND LAYOUT						
OFFICE FILE PREP	30	HR	90.41	2,712	\$25,466	
FIELD LAYOUT	120	HR	189.63	22,756		
SITE REMOVALS						
REMOVAL OF STONE WALLS	2000	LF	11.00	22,000	\$69,146	
SAW CUTTING	1000	LF	1.83	1,830		
CLEAR AND GRUB	10	DY	4,531.64	45,316		
E & S						
CONSTRUCTION ENTRANCE	6000	SF	1.39	8,340	\$107,088	
SILT FENCE	5000	LF	2.66	13,300		
HAY BALES	3000	LF	5.75	17,250		
INLET PROTECTION	20	EA	136.05	2,721		
EROSION CONTROL BLANKET	150000	SF	0.27	40,500		
SWEEPING AND DUST CONTROL	52	WK	346.92	18,040		
MAINTENANCE	52	WK	133.40	6,937		
MASS EARTH WORK						
STRIP TOPSOIL	19900	CY	2.43	48,357	\$4,452,997	
CUTS	38600	CY	2.90	111,940		
FILLS	398164	CY	1.62	645,026		
TRENCH ROCK BLASTING ALLOWANCE	100	CY	14.32	1,432		
SLOPE STABILIZATION	120000	SF	1.65	198,000		
IMPORT FILL FROM TOWN GARAGE AT 45 MINUTES ROUND TRIP	100000	CY	4.97	497,000		
IMPORT FILL	259564	CY	23.37	6,066,011		
IMPORT FILL FROM 10 BENNETTS BRIDGE	259564	CY	(12.00)	(3,114,768)		
Assume yields structural fill						
STORM						
MAN HOLE	10	EA	2,824.61	28,246	\$378,221	
CATCH BASINS	18	EA	2,597.93	46,763		
DOUBLE CATCH BASIN	2	EA	4,703.27	9,407		
WATER QUALITY UNIT	2	EA	27,022.64	54,045		
6" UNDER DRAIN	600	LF	29.03	17,418		
15" HDPE	2,300	LF	32.98	75,854		
24" HDPE	1,500	LF	44.28	66,420		
12 X 6 BOX CULVERT WITH HEAD WALLS	50	LF	769.31	38,466		
15" HOOD	10	EA	507.15	5,072		
24" HOOD	10	EA	507.15	5,072		
6" CLEAN OUT	6	EA	341.78	2,051		
BEDDING	977.78	CY	19.85	19,409		
ROOF LEADER CONNECTIONS	1	ALLOW	10,000	10,000		
SANITARY SEWER						
8" PVC SCH- 35	1,600	LF	37.26	59,616		\$1,513,583
ADJUST PIPING QUANTITY	400	LF	37.26	14,904		
MANHOLE	8	EA	3,199.46	25,596		
3000 GALLON GREASE TRAP	1	EA	5,768.28	5,768		
SUPPLY AND INSTALL 4 FEET OF SEPTIC SAND	5,000	CY	33.08	165,400		
INSTALL 2" PRESSURE PIPING SYSTEM FOR STONE BEDDING	3,300	LF	7.59	25,047		
SAND COVER	356	CY	19.85	7,058		
WASTE WATER TREATMENT PLANT BUILDING	1	LS	1,200,000	1,200,000		
TANKS	<<WITH ABOVE>>					
PUMPS	<<WITH ABOVE>>					
DOSING/LEACHING FIELDS	<<WITH ABOVE>>					
WATER						
DRILLING AND INSTALLATION OF WELLS	1000	VLF	71.50	71,500	\$299,217	
ADJUST PIPING QUANTITY	750	VLF	71.50	53,625		
TRENCHING AND WELL PIPING	600	LF	33.12	19,872		
INSTALL 10000 GALLON FIRE TANKS	3	EA	24,420.08	73,260		
INSTALL 10000 GALLON WATER TANKS	2	EA	24,420.08	48,840		
2" SHUT OFF	2	EA	446.51	893		
6" GATE VALVE	4	EA	1,125.65	4,503		
6" DIP CL-54	150	LF	58.48	8,772		
6" HYDRANT	2	EA	2,734.94	5,470		
THRUST BLOCKS	18	EA	226.38	4,075		
TESTING	600	LF	2.48	1,488		
SAND COVER	349	CY	19.85	6,920		

Sandy Hook Elementary School
Newtown, CT

Site 2 - 7,8 & 10 Bennett's Bridge Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total	
GAS SERVICES						
EXCAVATION, BEDDING & BACKFILL PIPING	0	LF	10.01	-	Total \$0	
<<BY UTILITY COMPANY>>						
FUEL OIL						
OIL TANK PIPING	5000	GAL	6.00	30,000	Total \$30,000	
<<WITH ABOVE>>						
ELECTRIC						
TRENCHING	100	LF	9.42	942	\$121,281	
BOLLARDS @ TRANSFORMER PAD	12	EA	546.84	6,562		
TRANSFORMER PAD	2	EA	2,856.21	5,712		
CONCRETE ENCASEMENT	10	CY	129.80	1,298		
PULL BOXES	1	EA	766.61	767		
ELECTRICAL CONDUIT (4 - 4")	100	LF	60.00	6,000		
GENERATOR	1	LS	100,000	100,000		
SITE LIGHTING						
TRENCHING	3000	LF	10.01	30,030		Total \$140,009
CONDUIT AND WIRING	3000	LF	6.00	18,000		
POLES WIRING AND FIXTURES	22	EA	3,520.00	77,440		
POLE BASES	22	EA	660.88	14,539		
BUILDING PAD READY						
INSTALL 12" STONE BASE TO 6" BELOW FINISH GRADE	1700	CY	31.36	53,312	Total \$53,312	
RETAINING WALL A						
EXCAVATION	520	LF	19.70	10,244	\$250,413	
INSTALL GRAVITY BLOCK WALL STRUCTURAL BACKFILL	7500	SF	28.64	214,800		
STRUCTURAL BACKFILL	2300	CY	11.03	25,369		
RETAINING WALL B						
EXCAVATION	460	LF	19.70	9,062	\$187,756	
INSTALL GRAVITY BLOCK WALL STRUCTURAL BACKFILL	5800	SF	28.64	166,384		
STRUCTURAL BACKFILL	1660	CY	11.03	18,310		
RETAINING WALL C						
EXCAVATION	230	LF	19.70	4,531	\$128,883	
INSTALL BLOCK WALL WITH GEO GRID STRUCTURAL BACKFILL	5700	SF	18.72	106,704		
STRUCTURAL BACKFILL	1600	CY	11.03	17,648		
RETAINING WALL D						
EXCAVATION	420	LF	19.70	8,274	\$277,528	
INSTALL GRAVITY BLOCK WALL STRUCTURAL BACKFILL	8400	SF	28.64	240,576		
STRUCTURAL BACKFILL	2600	CY	11.03	28,678		
RETAINING WALL E						
EXCAVATION	180	LF	19.70	3,546	\$36,925	
INSTALL GRAVITY BLOCK WALL STRUCTURAL BACKFILL	1100	SF	28.64	31,504		
STRUCTURAL BACKFILL	170	CY	11.03	1,875		
RETAINING WALL F						
EXCAVATION	180	LF	19.70	3,546	\$39,669	
INSTALL BLOCK WALL WITH GEO GRID STRUCTURAL BACKFILL	1800	SF	18.72	33,696		
STRUCTURAL BACKFILL	220	CY	11.03	2,427		
RETAINING WALL G						
EXCAVATION	240	LF	19.70	4,728	\$35,023	
INSTALL GRAVITY BLOCK WALL STRUCTURAL BACKFILL	1000	SF	28.64	28,640		
STRUCTURAL BACKFILL	150	CY	11.03	1,655		
RETAINING WALL H LANDSCAPE WALL						
EXCAVATION	110	LF	19.70	2,167	\$26,598	
INSTALL STONE WALL STRUCTURAL BACKFILL	400	SF	60.50	24,200		
STRUCTURAL BACKFILL	20	CY	11.03	221		
PAVING PREPARATION						
SUB GRADE	130500	SF	0.48	62,640	\$198,067	
INSTALL 8" STONE SUB BASE	3238	CY	27.29	88,374		
INSTALL 4" STONE BASE	1595	CY	29.50	47,053		
FIRE ACCESS PAVING PREPARATION						
SUB GRADE	16000	SF	0.48	7,680	\$24,284	
INSTALL 8" STONE SUB BASE	397	CY	27.29	10,835		
INSTALL 4" STONE BASE	196	CY	29.50	5,769		
GRAVEL ROAD AND PARKING						
SUB GRADE	31000	SF	0.48	14,880	\$47,050	
INSTALL 8" STONE SUB BASE	769	CY	27.29	20,983		
INSTALL 4" STONE BASE	379	CY	29.50	11,177		
PAVING						
FINE GRADE	130500	SF	0.11	14,355	\$340,646	
INSTALL 2" BINDER	1726	TN	95.24	164,337		
INSTALL 2" FIRE ACCESS PAVING	212	TN	100.76	21,316		
SWEEP AND TACK	130500	SF	0.06	7,830		
INSTALL 1 1/2" TOP COURSE	1320	TN	100.65	132,808		
PAVING MARKINGS AND SIGNS						
				Total	\$10,466	

Sandy Hook Elementary School
Newtown, CT

Site 2 - 7,8 & 10 Bennett's Bridge Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
MARKINGS	1	EA	5,508.75	5,509	
SIGNS	1	EA	4,957.50	4,958	
LANDSCAPING PREPARATION				Total	\$321,140
SCREEN TOPSOIL	6000	CY	5.86	35,160	
SPREAD TOPSOIL	6000	CY	7.83	46,980	
SHAPE AND GRADE STROM WATER DETENTION BASIN 1 (BUDGETED FOR MISC PROVISIONS)	20000	SF	1.95	39,000	
LANDSCAPING PLANTINGS, MULCH, SEEDING IRRIGATION SYSTEM	1 ALLOW	200,000.00		200,000	
		<<WITH ABOVE>>			
		<<ASSUME NOT REQUIRED>>			
PLAYSCAPE PREPARATION				Total	\$13,343
SUB GRADE	5000	SF	0.48	2,400	
INSTALL 6" BANK RUN GRAVEL	93	CY	32.63	3,021	
INSTALL 4" TOP SOIL	61	CY	7.20	440	
INSTALL EDGING	300	LF	16.50	4,950	
INSTALL 6" WOOD CHIPS	93	CY	27.34	2,531	
PLAYSCAPE				Total	\$115,000
PRE-K	1	LS	75,000	75,000	
K-5	1	LS	40,000	40,000	
SOCCER FIELD				Total	\$43,630
SUB GRADE	46800	SF	0.24	11,232	
INSTALL 6" BANK RUN GRAVEL	867	CY	32.63	28,279	
INSTALL 4" TOP SOIL	572	CY	7.20	4,118	
PLAYING FIELD				Total	\$31,324
SUB GRADE	33600	SF	0.24	8,064	
INSTALL 6" BANK RUN GRAVEL	622	CY	32.63	20,303	
INSTALL 4" TOP SOIL	411	CY	7.20	2,957	
BASKETBALL - HALF COURT				Total	\$26,500
SURFACE	5000	SF	5.00	25,000	
HOOP	1	EA	1,500.00	1,500	
SECURE COURTYARDS				Total	\$112,047
PRE-K COURTYARD:					
SUB GRADE	9757	SF	0.24	2,342	
INSTALL 6" BANK RUN GRAVEL	181	CY	32.63	5,896	
6" WOOD CHIPS	181	CY	27.34	4,940	
AREA DRAINS	4	EA	2,000	8,000	
FENCING	135	LF	65	8,775	
CLASSROOM COURTYARDS:					
SUB GRADE	3940	SF	0.24	946	
INSTALL 6" BANK RUN GRAVEL	73	CY	32.63	2,381	
ASPHALT WITH RESILIENT COATING	3940	SF	6.00	23,640	
AREA DRAINS	8	EA	2,000	16,000	
INTERIOR COURTYARDS:					
SUB GRADE	8240	SF	0.24	1,978	
INSTALL 6" BANK RUN GRAVEL	153	CY	32.63	4,979	
6" WOOD CHIPS	153	CY	27.34	4,172	
AREA DRAINS	8	EA	2,000	16,000	
WOOD BENCHES	8	EA	1,500	12,000	
SECURE COURTYARDS				Total	\$30,054
SUB GRADE	22253	SF	0.24	5,341	
INSTALL 6" BANK RUN GRAVEL	412	CY	32.63	13,447	
RECYCLED RUBBER 6" WOOD CHIPS	412	CY	27.34	11,267	
FENCE AND GUIDE RAIL				Total	\$190,383
4" CLF AT WALLS	2250	LF	21.45	48,263	
6" CLF AT PERIMETER OF SITE	2200	LF	28.60	62,920	
GUIDE RAIL	2000	LF	39.60	79,200	
SITE CONCRETE				Total	\$361,036
CONCRETE CURB	7800	LF	17.62	137,436	
CONCRETE SIDEWALK	32500	SF	6.88	223,600	
GEOHERMAL WELLS				Total	\$100,000
SITWORK RELATED WELLS & PIPING WELLS	1 ALLOW	100,000		100,000	
		<<with above>>			
		<<with HVAC>>			
OTHER				Total	\$442,000
GENERAL REQUIREMENTS	1	LS	150,000	150,000	
TEMPORARY FENCING	1	LS	85,000	85,000	
BOND (2%)				207,000	
SUBTOTAL SITWORK				\$10,580,000	
ESCALATION	\$10,580,000	\$\$'s	5%		529,000
DESIGN CONTINENCY	\$11,109,000	\$\$'s	10%		1,111,000
CONSTRUCTION CONTINGENCY	\$12,220,000	\$\$'s	5%		611,000

Sandy Hook Elementary School
Newtown, CT

Site 2 - 7,8 & 10 Bennett's Bridge Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
CONSTRUCTION MANAGERS SERVICES	\$12,831,000	\$\$'s	10%		1,283,000
STATE PERMIT FEE	\$14,114,000	\$\$'s	0.03%		4,000
LOCAL PERMIT FEE			<<assume not required>>		
TOTAL SITWORK					\$14,118,000
Exclusions					
1 SPECIAL PERMITS AND FEES					
2 HAZARDOUS OR CONTAMINATED MATERIALS AND OR SOILS					
3 IRRIGATION					
OFF SITE CONSTRUCTION					
ELECTRICAL SERVICES				Total	\$177,389
TRENCHING	2000	LF	13.55	27,100	
5" CONDUITS (Elec & Tele/Data)	8,000	LF	9.29	74,320	
RESTORATIONS	24,000	SF	2.58	61,920	
TRAFFIC CONTROL	8	DY	1,020.92	8,167	
BEDDING	296	CY	19.85	5,881	
SITE REMOVALS				Total	\$11,000
CLEAR AND GRUB	1	EA	11,000	11,000	
WIDEN BENNETTS BRIDGE ROAD & OSBORNE HILL ROAD				Total	\$361,554
REMOVE BITUMINOUS PAVING	47040	SF	0.12	5,645	
REGRADE	47040	SF	0.26	12,230	
SUB GRADE	47040	SF	0.20	9,408	
INSTALL 12" STONE BASE	1916	CY	26.46	50,709	
FINE GRADE	47040	SF	0.11	5,174	
INSTALL 2" BINDER	622	TN	88.20	54,858	
SWEEP AND TACK	47040	SF	0.06	2,822	
INSTALL 2" TOP COURSE	622	TN	93.71	58,285	
MARKINGS	1	EA	1,100.00	1,100	
SIGNS	1	EA	1,100.00	1,100	
TEMPORARY TRAFFIC CONTROL	3	EA	3,850.00	11,550	
POLICE TRAFFIC CONTROL	15	DY	1,270.08	19,051	
CATCH BASINS	12	EA	2,250.00	27,000	
15" RCP	1,680	LF	13.50	22,680	
BEDDING	249	CY	19.85	4,940	
UTILITY RELOCATIONS	1	LS	50,000	50,000	
MISCELLANEOUS RESTORATIONS	1	LS	25,000	25,000	
RESTORATION OF 10 BENNETTS BRIDGE ROAD				Total	\$50,000
REGRADE	1	LS	50,000	50,000	
GAS SERVICES				Total	\$0
EXCAVATION, BEDDING & BACKFILL	0	LF	10.01		
PIPING			<<BY UTILITY COMPANY>>		
SUBTOTAL OFF SITE CONSTRUCTION					\$600,000
ESCALATION	\$800,000	\$\$'s	5%		\$30,000
DESIGN CONTINENCY	\$630,000	\$\$'s	10%		\$63,000
CONSTRUCTION CONTINGENCY	\$893,000	\$\$'s	5%		\$35,000
CONSTRUCTION MANAGERS SERVICES	\$728,000	\$\$'s	10%		\$73,000
STATE PERMIT FEE	\$801,000	\$\$'s	0.03%		\$0
LOCAL PERMIT FEE			<<assume not required>>		
TOTAL OFF SITE CONSTRUCTION					\$801,000

**Sandy Hook Elementary School
Newtown, CT**

Site 3 -
21 Mile Hill Road South, FFH

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
ON SITE CONSTRUCTION					
SURVEY AND LAYOUT					
OFFICE FILE PREP	30	HR	90.41	2,712	
FIELD LAYOUT	120	HR	189.63	22,756	
					Total
					\$25,468
SITE REMOVALS					
REMOVE BITUMINOUS PAVING	97000	SF	0.12	11,640	
BITUMINOUS CURB	7500	LF	0.24	1,800	
REMOVE LIGHT POLE	10	EA	91.73	917	
REMOVE FENCE	1000	LF	2.55	2,550	
REMOVE CONCRETE PAVING	20000	SF	0.52	10,400	
REMOVE SIGN	10	EA	45.86	459	
REMOVE STORM PIPING	2000	LF	5.61	11,220	
REMOVE SANITARY PIPING	500	LF	5.61	2,805	
REMOVE WATER PIPING	500	LF	5.61	2,805	
REMOVE STORM STRUCTURE	20	EA	435.12	8,702	
SAW CUTTING	1000	LF	1.83	1,830	
CLEAR AND GRUB	4	DY	3,563.28	14,253	
					Total
					\$49,768
E & S					
CONSTRUCTION ENTRANCE	6000	SF	1.39	8,340	
SILT FENCE	3000	LF	2.66	7,980	
HAY BALES	1000	LF	5.75	5,750	
INLET PROTECTION	20	EA	136.05	2,721	
SWEEPING AND DUST CONTROL	52	WK	346.92	18,040	
MAINTENANCE	52	WK	133.40	6,937	
					Total
					\$740,405
MASS EARTH WORK					
STRIP TOPSOIL	3000	CY	2.43	7,290	
STRIP AND STOCKPILE RECLAIMED					
ROADWAY	1800	CY	2.90	5,220	
CUTS	49470	CY	2.90	143,463	
FILLS	3242	CY	3.87	12,547	
TRENCH ROCK BLASTING ALLOWANCE	100	CY	14.32	1,432	
EXPORT AND DISPOSAL	46228	CY	12.34	570,454	
					Total
					\$226,610
STORM					
CATCH BASINS	14	EA	2,597.93	36,371	
DOUBLE CATCH BASIN	6	EA	4,703.27	28,220	
WATER QUALITY UNIT	2	EA	27,022.64	54,045	
6" UNDER DRAIN	450	LF	29.03	13,064	
15" HDPE	1,200	LF	32.98	39,576	
24" HDPE	600	LF	44.28	26,568	
15" HOOD	14	EA	507.15	7,100	
24" HOOD	6	EA	507.15	3,043	
6" CLEAN OUT	2	EA	341.78	684	
BEDDING	400	CY	19.85	7,940	
ROOF LEADER CONNECTIONS	1	ALLOW	10,000	10,000	
					Total
					\$54,444
SANITARY SEWER					
8" PVC SCH- 35	880	LF	37.26	32,789	
TIE INTO EXISTING (CORE AND RECONSTRUCT INVERT)					
<<OFF SITE WORK>>					
MANHOLE	2	ea	3,199.46	6,399	
3000 GALLON GREASE TRAP	1	EA	5,768.28	5,768	
STONE BEDDING	196	CY	28.67	5,607	
SAND COVER	196	CY	19.85	3,882	
					Total
					\$166,471
WATER					
10" DIP CL-54	1360	LF	81.33	110,609	
6" DIP CL-54	510	LF	58.48	29,825	
2" COPPER SERVICE	50	LF	40.73	2,037	
2" SHUT OFF	1	EA	446.51	447	
6" GATE VALVE	3	EA	1,125.85	3,377	
10" GATE VALVE	1	EA	2,401.25	2,401	
10" BENDS	1	EA	479.59	480	
10" TEE	1	EA	562.28	562	
6" HYDRANT	2	EA	2,734.94	5,470	
THRUST BLOCKS	3	EA	226.38	679	
2" TAP	1	EA	301.35	301	
TESTING	1870	LF	2.48	4,638	
SAND COVER	284	CY	19.85	5,646	
					Total
					\$3,000
GAS SERVICES					
EXCAVATION, BEDDING & BACKFILL	300	LF	10.00	3,000	
PIPING					<<BY UTILITY COMPANY>>
					Total
					\$176,738
ELECTRIC					
TRENCHING	940	LF	9.42	8,855	

**Sandy Hook Elementary School
Newtown, CT**

Site 3 -
21 Mile Hill Road South, FFH

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
BOLLARDS @ TRANSFORMER PAD	12	EA	546.84	6,562	
TRANSFORMER PAD	1	EA	2,856.21	2,856	
CONCRETE ENCASEMENT	10	CY	129.80	1,298	
PULL BOXES	1	EA	766.61	767	
ELECTRICAL CONDUIT (4 - 4")	940	LF	60.00	56,400	
GENERATOR	1	LS	100,000	100,000	
					Total
					\$103,095
SITE LIGHTING					
TRENCHING	2000	LF	10.01	20,020	
CONDUIT AND WIRING	2000	LF	6.00	12,000	
POLES WIRING AND FIXTURES	17	EA	3,520.00	59,840	
POLE BASES	17	EA	660.88	11,235	
					Total
					\$124,159
BUILDING PAD READY					
OVER EXCAVATION AND REPLACEMENT IN NORTH END OF BUILDING	2000	CY	34.48	68,960	
INSTALL 12" STONE BASE TO 6" BELOW FINISH GRADE	1700	CY	32.47	55,199	
					Total
					\$123,303
PAVING PREPARATION					
SUB GRADE	110000	SF	0.46	52,800	
INSTALL 8" STONE SUB BASE FROM RECLAIMED MATERIAL	1800	CY	3.04	5,472	
INSTALL 8" STONE SUB BASE	930	CY	27.29	25,370	
INSTALL 4" STONE BASE	1344	CY	29.50	39,661	
					Total
					\$11,535
FIRE ACCESS PAVING PREPARATION					
SUB GRADE	7600	SF	0.48	3,648	
INSTALL 8" STONE SUB BASE	189	CY	27.29	5,147	
INSTALL 4" STONE BASE	93	CY	29.50	2,740	
					Total
					\$279,292
PAVING					
FINE GRADE	110000	SF	0.11	12,100	
INSTALL 2" BINDER	1454	TN	95.24	138,521	
INSTALL 2" FIRE ACCESS PAVING	100	TN	100.76	10,125	
SWEEP AND TACK	110000	SF	0.06	6,600	
INSTALL 1 1/2" TOP COURSE	1112	TN	100.65	111,945	
					Total
					\$10,466
PAVING MARKINGS AND SIGNS					
MARKINGS	1	EA	5,508.75	5,509	
SIGNS	1	EA	4,957.50	4,958	
					Total
					\$192,749
LANDSCAPING PREPARATION					
SCREEN TOPSOIL	2100	CY	5.88	12,306	
SPREAD TOPSOIL	2100	CY	7.83	16,443	
SHAPE AND GRADE STROM WATER DETENTION BASIN 1 (BUDGETED FOR MISC PROVISIONS)	20000	SF	1.95	39,000	
LANDSCAPING	1	ALLOW	125,000.00	125,000	
PLANTINGS, MULCH, SEEDING- IRRIGATION SYSTEM					<<WITH ABOVE>> <<ASSUME NOT REQUIRED>>
					Total
					\$13,343
PLAYSCAPE PREPARATION					
SUB GRADE	5000	SF	0.48	2,400	
INSTALL 6" BANK RUN GRAVEL	93	CY	32.63	3,021	
INSTALL 4" TOP SOIL	61	CY	7.20	440	
INSTALL EDGING	300	LF	16.50	4,950	
INSTALL 6" WOOD CHIPS	93	CY	27.34	2,531	
					Total
					\$115,000
PLAYSCAPE					
PRE-K	1	LS	75,000	75,000	
K-5	1	LS	40,000	40,000	
					Total
					\$37,757
PLAYING FIELD					
SUB GRADE	40500	SF	0.24	9,720	
INSTALL 6" BANK RUN GRAVEL	750	CY	32.63	24,473	
INSTALL 4" TOP SOIL	495	CY	7.20	3,564	
					Total
					\$26,500
BASKETBALL - HALF COURT					
SURFACE	5000	SF	5.00	25,000	
HOOP	1	EA	1,500.00	1,500	
					Total
					\$112,047
SECURE COURTYARDS					
PRE-K COURTYARD:					
SUB GRADE	9757	SF	0.24	2,342	
INSTALL 6" BANK RUN GRAVEL	181	CY	32.63	5,896	
6" WOOD CHIPS	181	CY	27.34	4,940	
AREA DRAINS	4	EA	2,000	8,000	
FENCING	135	LF	65	8,775	
CLASSROOM COURTYARDS:					
SUB GRADE	3940	SF	0.24	946	
INSTALL 6" BANK RUN GRAVEL	73	CY	32.63	2,381	
ASPHALT WITH RESILIENT COATING	3940	SF	6.00	23,640	
AREA DRAINS	8	EA	2,000	16,000	
INTERIOR COURTYARDS:					

**Sandy Hook Elementary School
Newtown, CT**

Site 3 -
21 Mile Hill Road South, FFH

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
SUB GRADE	8240	SF	0.24	1,978	
INSTALL 6" BANK RUN GRAVEL	153	CY	32.63	4,979	
6" WOOD CHIPS	153	CY	27.34	4,172	
AREA DRAINS	8	EA	2,000	16,000	
WOOD BENCHES	8	EA	1,500	12,000	
SECURE COURTYARDS				Total	\$30,054
SUB GRADE	22253	SF	0.24	5,341	
INSTALL 6" BANK RUN GRAVEL	412	CY	32.63	13,447	
RECYCLED RUBBER 6" WOOD CHIPS	412	CY	27.34	11,267	
FENCE AND GUIDE RAIL				Total	\$277,550
DECORATIVE FENCE AT PERIMETER OF SITE	3500	LF	71.50	250,250	
DECORATIVE FENCE AT BUS DROP-OFF	420	LF	65.00	27,300	
SITE CONCRETE				Total	\$265,638
CONCRETE CURB	5900	LF	17.62	103,958	
CONCRETE SIDEWALK	23500	SF	6.88	161,680	
GEO THERMAL WELLS				Total	\$100,000
SITEWORK RELATED WELLS & PIPING	1	ALLOW	100,000	100,000	
WELLS			<<with above>>		
			<<with HVAC>>		
OTHER				Total	\$306,000
GENERAL REQUIREMENTS	1	LS	150,000	150,000	
TEMPORARY FENCING	1	LS	85,000	85,000	
BOND (2%)				71,000	
SUBTOTAL SITWORK				\$3,641,000	
ESCALATION	\$3,641,000	\$\$'s	5%		182,000
DESIGN CONTINENCY	\$3,823,000	\$\$'s	10%		382,000
CONSTRUCTION CONTINGENCY	\$4,205,000	\$\$'s	5%		210,000
CONSTRUCTION MANAGERS SERVICES	\$4,415,000	\$\$'s	10%		442,000
STATE PERMIT FEE	\$4,857,000	\$\$'s	0.03%		1,000
LOCAL PERMIT FEE			<<assume not required>>		
TOTAL SITWORK					\$4,858,000

- Exclusions**
- 1 SPECIAL PERMITS AND FEES
 - 2 HAZARDOUS OR CONTAMINATED MATERIALS AND OR SOILS
 - 3 IRRIGATION

OFF SITE CONSTRUCTION

	Quantity	Unit	Unit Price	Subtotal	Total
WIDEN KEATING DRIVE				Total	\$361,248
REMOVE BITUMINOUS PAVING	53200	SF	0.12	6,384	
REGRADE	53200	SF	0.26	13,832	
SUB GRADE	53200	SF	0.20	10,640	
INSTALL 12" STONE BASE	2167	CY	26.46	57,350	
FINE GRADE	53200	SF	0.11	5,852	
INSTALL 2" BINDER	703	TN	88.20	62,042	
SWEEP AND TACK	53200	SF	0.06	3,192	
INSTALL 2" TOP COURSE	703	TN	93.71	65,918	
MARKINGS	1	EA	1,100.00	1,100	
SIGNS	1	EA	1,100.00	1,100	
TEMPORARY TRAFFIC CONTROL	3	EA	3,850.00	11,550	
POLICE TRAFFIC CONTROL	15	DY	1,270.08	19,051	
CATCH BASINS	12	EA	2,250.00	27,000	
15" RCP	1,900	LF	13.50	25,650	
BEDDING	281	CY	19.85	5,587	
MISCELLANEOUS RESTORATIONS	1	LS	25,000	25,000	
RELOCATION OF POLES	4	EA	5,000	20,000	
GAS SERVICES				Total	\$0
EXCAVATION, BEDDING & BACKFILL	0	LF	10.01	-	
PIPING			<<BY UTILITY COMPANY>>		
SANITARY SEWER				Total	\$29,763
8" PVC SCH- 35	455	LF	37.26	16,953	
TIE INTO EXISTING (CORE AND RECONSTRUCT INVERT)	1	EA	1,504.77	1,505	
MANHOLE	2	EA	3,199.46	6,399	
STONE BEDDING	101	CY	28.67	2,899	

**Sandy Hook Elementary School
Newtown, CT**

Site 3 -
21 Mile Hill Road South, FFH

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
SAND COVER	101	CY	19.85	2,007	
SUBTOTAL OFF SITE CONSTRUCTION				\$391,000	
ESCALATION	\$391,000	\$\$'s	5%		\$20,000
DESIGN CONTINENCY	\$411,000	\$\$'s	10%		\$41,000
CONSTRUCTION CONTINGENCY	\$452,000	\$\$'s	5%		\$23,000
CONSTRUCTION MANAGERS SERVICES	\$475,000	\$\$'s	10%		\$48,000
STATE PERMIT FEE	\$523,000	\$\$'s	0.03%		\$0
LOCAL PERMIT FEE			<<assume not required>>		
TOTAL OFF SITE CONSTRUCTION					\$523,000

Sandy Hook Elementary School
Newtown, CT

Site 4 -
Commerce Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
ON SITE CONSTRUCTION					
SURVEY AND LAYOUT				Total	\$25,468
OFFICE FILE PREP	30	HR	90.41	2,712	
FIELD LAYOUT	120	HR	189.63	22,756	
SITE REMOVALS				Total	\$41,133
MISC REMOVALS	1	EA	5,500.00	5,500	
CLEAR AND GRUB	10	DY	3,563.28	35,633	
E & S				Total	\$49,768
CONSTRUCTION ENTRANCE	6000	SF	1.39	8,340	
SILT FENCE	3000	LF	2.66	7,980	
HAY BALES	1000	LF	5.75	5,750	
INLET PROTECTION	20	EA	136.05	2,721	
SWEEPING AND DUST CONTROL	52	WK	346.92	18,040	
MAINTENANCE	52	WK	133.40	6,937	
MASS EARTH WORK				Total	\$4,501,043
STRIP TOPSOIL	11600	CY	2.43	28,188	
CUTS	38466	CY	2.90	111,551	
FILLS	200435	CY	2.80	561,218	
ROCK BLASTING ALLOWANCE	1000	CY	7.71	7,710	
TRENCH ROCK BLASTING ALLOWANCE	500	CY	14.32	7,160	
IMPORT FILL	161969	CY	23.37	3,785,216	
STORM				Total	\$308,545
CATCH BASINS	16	EA	2,597.93	41,567	
DOUBLE CATCH BASIN	4	EA	4,703.27	18,813	
MAN HOLE	2	EA	3,040.70	6,081	
OUTLET CONTROL STRUCTURE	3	EA	4,703.27	14,110	
WATER QUALITY UNIT	1	EA	27,022.64	27,023	
12 X 4 BOX CULVERT 1		LF	44.28	-	
12 X 4 BOX CULVERT 2	50	LF	783.69	39,185	
6" UNDER DRAIN	70	LF	783.69	54,858	
15" HDPE	1,000	LF	32.98	32,980	
24" HDPE	1,000	LF	44.28	44,280	
15" HOOD	14	EA	507.15	7,100	
24" HOOD	6	EA	507.15	3,043	
6" CLEAN OUT	2	EA	341.78	684	
BEDDING	444	CY	19.85	8,822	
ROOF LEADER CONNECTIONS	1	ALLOW	10,000	10,000	
SANITARY SEWER				Total	\$88,217
8" PVC SCH- 35	1,250	LF	37.26	46,575	
MANHOLE	7	EA	3,199.46	22,396	
3000 GALLON GREASE TRAP	1	EA	5,768.28	5,768	
STONE BEDDING	278	CY	28.67	7,964	
SAND COVER	278	CY	19.85	5,514	
WATER				Total	\$232,984
10" DIP CL-54	2200	LF	81.33	178,926	
6" DIP CL-54	200	LF	58.48	11,696	
2" COPPER SERVICE	100	LF	40.73	4,073	
2" SHUT OFF	1	EA	446.51	447	
6" GATE VALVE	2	EA	1,125.65	2,251	
10" GATE VALVE	4	EA	2,401.25	9,605	
10" BENDS	5	EA	479.59	2,398	
10" TEE	4	EA	562.28	2,249	
6" HYDRANT	2	EA	2,734.94	5,470	
THRUST BLOCKS	10	EA	226.38	2,264	
2" TAP	1	EA	301.35	301	
TESTING	2400	LF	2.48	5,952	
SAND COVER	370	CY	19.85	7,352	
GAS SERVICES				Total	\$17,417
TRENCHING	1740	LF	10.01	17,417	
ELECTRIC				Total	\$223,853
TRENCHING	1600	LF	9.42	15,072	
BOLLARDS @ TRANSFORMER PAD	12	EA	546.84	6,562	
TRANSFORMER PAD	1	EA	2,856.21	2,856	
CONCRETE ENCASEMENT	20	CY	129.80	2,596	
PULL BOXES	1	EA	766.61	767	
ELECTRICAL CONDUIT (4 - 4")	1,600	LF	60.00	96,000	
GENERATOR	1	LS	100,000	100,000	
SITE LIGHTING				Total	\$132,004
TRENCHING	2500	LF	10.01	25,025	
CONDUIT AND WIRING	2500	LF	6.00	15,000	
POLES WIRING AND FIXTURES	22	EA	3,520.00	77,440	

Sandy Hook Elementary School
Newtown, CT

Site 4 -
Commerce Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
POLE BASES	22	EA	660.88	14,539	
BUILDING PAD READY				Total	\$55,199
INSTALL 12" STONE BASE TO 6" BELOW					
FINISH GRADE	1700	CY	32.47	55,199	
PAVING PREPARATION				Total	\$318,728
SUB GRADE	210000	SF	0.48	100,800	
INSTALL 8" STONE SUB BASE	5211	CY	27.29	142,211	
INSTALL 4" STONE BASE	2567	CY	29.50	75,717	
FIRE ACCESS PAVING PREPARATION				Total	\$25,498
SUB GRADE	16800	SF	0.48	8,064	
INSTALL 8" STONE SUB BASE	417	CY	27.29	11,377	
INSTALL 4" STONE BASE	205	CY	29.50	6,057	
PAVING				Total	\$536,245
FINE GRADE	210000	SF	0.11	23,100	
INSTALL 2" BINDER	2777	TN	95.24	264,450	
INSTALL 2" FIRE ACCESS PAVING	222	TN	100.76	22,382	
SWEEP AND TACK	210000	SF	0.06	12,600	
INSTALL 1 1/2" TOP COURSE	2123	TN	100.65	213,714	
PAVING MARKINGS AND SIGNS				Total	\$10,466
MARKINGS	1	EA	5,508.75	5,509	
SIGNS	1	EA	4,957.50	4,958	
LANDSCAPING PREPARATION				Total	\$175,593
SCREEN TOPSOIL	2200	CY	5.86	12,892	
SPREAD TOPSOIL	2200	CY	7.83	17,226	
SHAPE AND GRADE STROM WATER					
DETENTION BASIN 1 (BUDGETED FOR MISC					
PROVISIONS)	4000	SF	1.95	7,800	
SHAPE AND GRADE STROM WATER					
DETENTION BASIN 2 (BUDGETED FOR MISC					
PROVISIONS)	3000	SF	1.95	5,850	
SHAPE AND GRADE STROM WATER					
DETENTION BASIN 3 (BUDGETED FOR MISC					
PROVISIONS)	3500	SF	1.95	6,825	
LANDSCAPING	1	ALLOW	125,000.00	125,000	
PLANTINGS, MULCH, SEEDING					
IRRIGATION SYSTEM					
PLAYSCAPE PREPARATION				Total	\$13,343
SUB GRADE	5000	SF	0.48	2,400	
INSTALL 6" BANK RUN GRAVEL	93	CY	32.63	3,021	
INSTALL 4" TOP SOIL	61	CY	7.20	440	
INSTALL EDGING	300	LF	16.50	4,950	
INSTALL 6" WOOD CHIPS	93	CY	27.34	2,531	
PLAYSCAPE				Total	\$115,000
PRE-K	1	LS	75,000	75,000	
K-5	1	LS	40,000	40,000	
PLAYING FIELD				Total	\$27,968
SUB GRADE	30000	SF	0.24	7,200	
INSTALL 6" BANK RUN GRAVEL	556	CY	32.63	18,128	
INSTALL 4" TOP SOIL	367	CY	7.20	2,640	
BASKETBALL - HALF COURT				Total	\$26,500
SURFACE	5000	SF	5.00	25,000	
HOOP	1	EA	1,500.00	1,500	
SECURE COURTYARDS				Total	\$112,047
PRE-K COURTYARD:					
SUB GRADE	9757	SF	0.24	2,342	
INSTALL 6" BANK RUN GRAVEL	181	CY	32.63	5,896	
6" WOOD CHIPS	181	CY	27.34	4,940	
AREA DRAINS	4	EA	2,000	8,000	
FENCING	135	LF	65	8,775	
CLASSROOM COURTYARDS:					
SUB GRADE	3940	SF	0.24	946	
INSTALL 6" BANK RUN GRAVEL	73	CY	32.63	2,381	
ASPHALT WITH RESILIENT COATING	3940	SF	6.00	23,640	
AREA DRAINS	8	EA	2,000	16,000	
INTERIOR COURTYARDS:					
SUB GRADE	8240	SF	0.24	1,978	
INSTALL 6" BANK RUN GRAVEL	153	CY	32.63	4,979	
6" WOOD CHIPS	153	CY	27.34	4,172	
AREA DRAINS	8	EA	2,000	16,000	
WOOD BENCHES	8	EA	1,500	12,000	
SECURE COURTYARDS				Total	\$30,054
SUB GRADE	22253	SF	0.24	5,341	
INSTALL 6" BANK RUN GRAVEL	412	CY	32.63	13,447	

**Sandy Hook Elementary School
Newtown, CT**

Site 4 -
Commerce Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
RECYCLED-RUBBER 6" WOOD CHIPS	412	CY	27.34	11,267	
RETAINING WALL A				Total	\$129,306
EXCAVATION	390	LF	19.70	7,683	
INSTALL GRAVITY BLOCK WALL	3900	SF	28.64	111,696	
STRUCTURAL BACKFILL	900	CY	11.03	9,927	
RETAINING WALL B				Total	\$522,060
EXCAVATION	1000	LF	19.70	19,700	
INSTALL GRAVITY BLOCK WALL	16000	SF	28.64	458,240	
STRUCTURAL BACKFILL	4000	CY	11.03	44,120	
RETAINING WALL C				Total	\$201,178
EXCAVATION	540	LF	19.70	10,638	
INSTALL BLOCK WALL WITH GEO GRID	9000	SF	18.72	168,480	
STRUCTURAL BACKFILL	2000	CY	11.03	22,060	
CULVERT HEAD WALLS				Total	\$44,463
EXCAVATION	300	LF	19.70	5,910	
WALLS AND FOOTINGS	1	EA	33,037.50	33,038	
STRUCTURAL BACKFILL	500	CY	11.03	5,515	
FENCE AND GUIDE RAIL				Total	\$296,835
4' CLF AT WALLS	2300	LF	21.45	49,335	
6' CLF AT PERIMETER OF SITE	4500	LF	28.60	128,700	
GUIDE RAIL	3000	LF	39.60	118,800	
SITE CONCRETE				Total	\$347,777
CONCRETE CURB	9976	LF	17.62	175,777	
CONCRETE SIDEWALK	25000	SF	6.88	172,000	
GEOTHERMAL WELLS				Total	\$100,000
SITWORK RELATED WELLS & PIPING WELLS	1	ALLOW	100,000	100,000	
			<<with above>>		
			<<with HVAC>>		
OTHER				Total	\$414,000
GENERAL REQUIREMENTS	1	LS	150,000	150,000	
TEMPORARY FENCING	1	LS	85,000	85,000	
BOND (2%)				179,000	
SUBTOTAL SITWORK				\$9,123,000	
ESCALATION	\$9,123,000	\$\$'s	5%		456,000
DESIGN CONTINENCY	\$9,579,000	\$\$'s	10%		958,000
CONSTRUCTION CONTINGENCY	\$10,537,000	\$\$'s	5%		527,000
CONSTRUCTION MANAGERS SERVICES	\$11,064,000	\$\$'s	10%		1,106,000
STATE PERMIT FEE	\$12,170,000	\$\$'s	0.03%		3,000
LOCAL PERMIT FEE			<<assume not required>>		
TOTAL SITWORK					\$12,173,000

Exclusions

- 1 SPECIAL PERMITS AND FEES
- 2 HAZARDOUS OR CONTAMINATED MATERIALS AND OR SOILS
- 3 IRRIGATION

OFF SITE CONSTRUCTION

MISCELLANEOUS RESTORATION	1	LS	20,000	20,000	
SUBTOTAL OFF SITE CONSTRUCTION				\$20,000	
ESCALATION	\$20,000	\$\$'s	5%		\$1,000
DESIGN CONTINENCY	\$21,000	\$\$'s	10%		\$2,000
CONSTRUCTION CONTINGENCY	\$23,000	\$\$'s	5%		\$1,000
CONSTRUCTION MANAGERS SERVICES	\$24,000	\$\$'s	10%		\$2,000
STATE PERMIT FEE	\$26,000	\$\$'s	0.03%		\$0
LOCAL PERMIT FEE			<<assume not required>>		
TOTAL OFF SITE CONSTRUCTION					\$26,000

Sandy Hook Elementary School
Newtown, CT

Site 5 -
28 Riverside Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
ON SITE CONSTRUCTION					
SURVEY AND LAYOUT				Total	\$25,468
OFFICE FILE PREP	30	HR	90.41	2,712	
FIELD LAYOUT	120	HR	189.63	22,756	
SITE REMOVALS				Total	\$62,013
REMOVE FENCE	1000	LF	2.55	2,550	
MISC REMOVALS	1	EA	22,000	22,000	
SAW CUTTING	1000	LF	1.83	1,830	
CLEAR AND GRUB	10	DY	3,563.28	35,633	
E & S				Total	\$49,768
CONSTRUCTION ENTRANCE	6000	SF	1.39	8,340	
SILT FENCE	3000	LF	2.66	7,980	
HAY BALES	1000	LF	5.75	5,750	
INLET PROTECTION	20	EA	136.05	2,721	
SWEEPING AND DUST CONTROL	52	WK	346.92	18,040	
MAINTENANCE	52	WK	133.40	6,937	
MASS EARTH WORK				Total	\$3,140,622
STRIP TOPSOIL	3000	CY	2.43	7,290	
CUTS	45784	CY	2.90	132,774	
FILLS	139000	CY	3.87	537,930	
ROCK BLASTING ALLOWANCE	35000	CY	7.71	269,850	
TRENCH ROCK BLASTING ALLOWANCE	1000	CY	14.32	14,320	
IMPORT FILL	93216	CY	23.37	2,178,458	
STORM				Total	\$313,303
CATCH BASINS	18	EA	2,597.93	46,763	
DOUBLE CATCH BASIN	4	EA	4,703.27	18,813	
MAN HOLE	7	EA	3,040.70	21,285	
OUTLET CONTROL STRUCTURE	1	EA	4,703.27	4,703	
WATER QUALITY UNIT	2	EA	27,022.64	54,045	
6" UNDER DRAIN	100	LF	29.03	2,903	
15" HDPE	2,000	LF	32.98	65,960	
24" HDPE	1,400	LF	44.28	61,992	
15" HOOD	14	EA	507.15	7,100	
24" HOOD	8	EA	507.15	4,057	
6" CLEAN OUT	2	EA	341.78	684	
BEDDING	756	CY	19.85	14,998	
ROOF LEADER CONNECTIONS	1	ALLOW	10,000	10,000	
SANITARY SEWER				Total	\$99,430
8" PVC SCH-35	1,550	LF	37.26	57,753	
MANHOLE	6	EA	3,199.46	19,197	
3000 GALLON GREASE TRAP	1	EA	5,768.28	5,768	
STONE BEDDING	344	CY	28.67	9,875	
SAND COVER	344	CY	19.85	6,837	
WATER				Total	\$144,117
10" DIP CL-54	1350	LF	81.33	109,796	
6" DIP CL-54	50	LF	58.48	2,924	
2" COPPER SERVICE	50	LF	40.73	2,037	
2" SHUT OFF	1	EA	446.51	447	
6" GATE VALVE	2	EA	1,125.65	2,251	
10" GATE VALVE	3	EA	2,401.25	7,204	
10" BENDS	3	EA	479.59	1,439	
10" TEE	4	EA	582.28	2,249	
6" HYDRANT	2	EA	2,734.94	5,470	
THRUST BLOCKS	10	EA	226.38	2,264	
2" TAP	1	EA	301.35	301	
TESTING	1400	LF	2.48	3,472	
SAND COVER	215	CY	19.85	4,264	
GAS SERVICES				Total	\$3,003
TRENCHING	300	LF	10.01	3,003	
ELECTRIC				Total	\$140,549
TRENCHING	400	LF	9.42	3,768	
BOLLARDS @ TRANSFORMER PAD	12	EA	546.84	6,562	
TRANSFORMER PAD	1	EA	2,856.21	2,856	
CONCRETE ENCASMENT	20	CY	129.80	2,596	
PULL BOXES	1	EA	766.61	767	
ELECTRICAL CONDUIT (4 - 4")	400	LF	60.00	24,000	
GENERATOR	1	LS	100,000	100,000	
SITE LIGHTING				Total	\$132,004
TRENCHING	2500	LF	10.01	25,025	
CONDUIT AND WIRING	2500	LF	6.00	15,000	
POLES WIRING AND FIXTURES	22	EA	3,520.00	77,440	

Sandy Hook Elementary School
Newtown, CT

Site 5 -
28 Riverside Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
POLE BASES	22	EA	680.88	14,539	
BUILDING PAD READY				Total	\$294,639
OVER EXCAVATE BALL FIELD AND PLACE FILL UNDER SOUTH WEST PARKING LOT AND PLAYING FIELD	41000	CY	5.84	239,440	
INSTALL 12" STONE BASE TO 6" BELOW FINISH GRADE	1700	CY	32.47	55,199	
PAVING PREPARATION				Total	\$182,130
SUB GRADE	120000	SF	0.48	57,600	
INSTALL 8" STONE SUB BASE	2978	CY	27.29	81,284	
INSTALL 4" STONE BASE	1467	CY	29.50	43,267	
FIRE ACCESS PAVING PREPARATION				Total	\$20,641
SUB GRADE	13600	SF	0.48	6,528	
INSTALL 8" STONE SUB BASE	337	CY	27.29	9,210	
INSTALL 4" STONE BASE	166	CY	29.50	4,904	
PAVING				Total	\$311,755
FINE GRADE	120000	SF	0.11	13,200	
INSTALL 2" BINDER	1587	TN	95.24	151,114	
INSTALL 2" FIRE ACCESS PAVING	180	TN	100.76	18,119	
SWEEP AND TACK	120000	SF	0.06	7,200	
INSTALL 1 1/2" TOP COURSE	1213	TN	100.65	122,122	
PAVING MARKINGS AND SIGNS				Total	\$10,466
MARKINGS	1	EA	5,508.75	5,509	
SIGNS	1	EA	4,957.50	4,958	
LANDSCAPING PREPARATION				Total	\$188,642
SCREEN TOPSOIL	1800	CY	5.86	10,548	
SPREAD TOPSOIL	1800	CY	7.83	14,094	
SHAPE AND GRADE STROM WATER DETENTION BASIN 1 (BUDGETED FOR MISC PROVISIONS)	20000	SF	1.95	39,000	
LANDSCAPING	1	ALLOW	125,000	125,000	
PLANTINGS, MULCH, SEEDING IRRIGATION SYSTEM			<<WITH ABOVE>> <<ASSUME NOT REQUIRED>>		
PLAYSCAPE PREPARATION				Total	\$13,343
SUB GRADE	5000	SF	0.48	2,400	
INSTALL 6" BANK RUN GRAVEL	93	CY	32.63	3,021	
INSTALL 4" TOP SOIL	61	CY	7.20	440	
INSTALL EDGING	300	LF	16.50	4,950	
INSTALL 6" WOOD CHIPS	93	CY	27.34	2,531	
PLAYSCAPE				Total	\$115,000
PRE-K	1	LS	75,000	75,000	
K-5	1	LS	40,000	40,000	
PLAYING FIELD				Total	\$41,952
SUB GRADE	45000	SF	0.24	10,800	
INSTALL 6" BANK RUN GRAVEL	833	CY	32.63	27,192	
INSTALL 4" TOP SOIL	550	CY	7.20	3,960	
BASKETBALL - HALF COURT				Total	\$26,500
SURFACE	5000	SF	5.00	25,000	
HOOP	1	EA	1,500.00	1,500	
SECURE COURTYARDS				Total	\$112,047
PRE-K COURTYARD:					
SUB GRADE	9757	SF	0.24	2,342	
INSTALL 6" BANK RUN GRAVEL	181	CY	32.63	5,896	
6" WOOD CHIPS	181	CY	27.34	4,940	
AREA DRAINS	4	EA	2,000	8,000	
FENCING	135	LF	65	8,775	
CLASSROOM COURTYARDS:					
SUB GRADE	3940	SF	0.24	946	
INSTALL 6" BANK RUN GRAVEL	73	CY	32.63	2,381	
ASPHALT WITH RESILIENT COATING	3940	SF	6.00	23,640	
AREA DRAINS	8	EA	2,000	16,000	
INTERIOR COURTYARDS:					
SUB GRADE	8240	SF	0.24	1,978	
INSTALL 6" BANK RUN GRAVEL	153	CY	32.63	4,979	
6" WOOD CHIPS	153	CY	27.34	4,172	
AREA DRAINS	8	EA	2,000	16,000	
WOOD BENCHES	8	EA	1,500	12,000	
SECURE COURTYARDS				Total	\$30,054
SUB GRADE	22253	SF	0.24	5,341	
INSTALL 6" BANK RUN GRAVEL	412	CY	32.63	13,447	
RECYCLED RUBBER 6" WOOD CHIPS	412	CY	27.34	11,267	
RETAINING WALL A				Total	\$424,122
EXCAVATION	500	LF	19.70	9,850	

**Sandy Hook Elementary School
Newtown, CT**

Site 5 -
28 Riverside Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
INSTALL GRAVITY BLOCK WALL	12000	SF	28.64	343,680	
STRUCTURAL BACKFILL	6400	CY	11.03	70,592	
RETAINING WALL B				Total	\$129,593
EXCAVATION	270	LF	19.70	5,319	
INSTALL GRAVITY BLOCK WALL	3800	SF	28.64	108,832	
STRUCTURAL BACKFILL	1400	CY	11.03	15,442	
RETAINING WALL C				Total	\$19,743
EXCAVATION	200	LF	19.70	3,940	
INSTALL BLOCK WALL WITH GEO GRID	800	SF	18.72	14,976	
STRUCTURAL BACKFILL	75	CY	11.03	827	
RETAINING WALL D				Total	\$723,838
EXCAVATION	840	LF	19.70	16,548	
INSTALL GRAVITY BLOCK WALL	22000	SF	28.64	630,080	
STRUCTURAL BACKFILL	7000	CY	11.03	77,210	
FENCE AND GUIDE RAIL				Total	\$125,290
4' CLF AT WALLS	1800	LF	21.45	38,610	
6' CLF AT PERIMETER OF SITE	2200	LF	28.60	62,920	
GUIDE RAIL	600	LF	39.60	23,760	
SITE CONCRETE				Total	\$409,112
CONCRETE CURB	7600	LF	17.62	133,912	
CONCRETE SIDEWALK	40000	SF	6.88	275,200	
GEO THERMAL WELLS				Total	\$100,000
SITWORK RELATED WELLS & PIPING WELLS	1	ALLOW	100,000	100,000	
			<<with above>>		
			<<with HVAC>>		
OTHER				Total	\$387,000
GENERAL REQUIREMENTS	1	LS	150,000	150,000	
TEMPORARY FENCING	1	LS	85,000	85,000	
BOND (2%)				152,000	
SUBTOTAL SITWORK				\$7,776,000	
ESCALATION	\$7,776,000	\$\$'s	5%		389,000
DESIGN CONTINENCY	\$8,165,000	\$\$'s	10%		817,000
CONSTRUCTION CONTINGENCY	\$8,982,000	\$\$'s	5%		449,000
CONSTRUCTION MANAGERS SERVICES	\$9,431,000	\$\$'s	10%		943,000
STATE PERMIT FEE	\$10,374,000	\$\$'s	0.03%		3,000
LOCAL PERMIT FEE			<<assume not required>>		

TOTAL SITWORK \$10,377,000

- Exclusions**
- SPECIAL PERMITS AND FEES
 - HAZARDOUS OR CONTAMINATED MATERIALS AND OR SOILS
 - IRRIGATION

OFF SITE CONSTRUCTION

SANITARY				Total	\$21,598
MAN HOLE	2	EA	3,056.40	6,113	
TIE INTO EXISTING	1	EA	1,308.00	1,308	
8" PVC	335	LF	39.38	13,192	
BEDDING	50	CY	19.85	985	
WATER				Total	\$44,960
10" DIP CL-54	460	LF	81.33	37,412	
10" GATE VALVE	1	EA	2,401.25	2,401	
10" BENDS	2	EA	479.59	959	
10" TEE	1	EA	562.28	562	
THRUST BLOCKS	5	EA	226.38	1,132	
TESTING	460	LF	2.48	1,141	
SAND COVER	68	CY	19.85	1,353	
GAS SERVICES				Total	\$8,008
TRENCHING	800	LF	10.01	8,008	
MARKINGS, SIGNS, TRAFFIC CONTROL				Total	\$44,152
MARKINGS	1	EA	1,100.00	1,100	
SIGNS	1	EA	1,100.00	1,100	
TEMPORARY TRAFFIC CONTROL	1	EA	3,850.00	3,850	
POLICE TRAFFIC CONTROL	30	DY	1,270.08	38,102	
TOPSOIL				Total	\$1,723

**Sandy Hook Elementary School
Newtown, CT**

Site 5 -
28 Riverside Road

SITWORK

	Quantity	Unit	Unit Price	Subtotal	Total
PLACE TOPSOIL	100	CY	17.23	1,723	
WIDEN & REGRADE RIVERSIDE ROAD				Total	\$221,576
REMOVE BITUMINOUS PAVING	29400	SF	0.12	3,528	
REGRADE	1	LS	40,000	40,000	
SUB GRADE	29400	SF	0.20	5,880	
INSTALL 12" STONE BASE	1198	CY	26.46	31,693	
FINE GRADE	29400	SF	0.11	3,234	
INSTALL 2" BINDER	389	TN	88.20	34,286	
SWEEP AND TACK	29400	SF	0.06	1,764	
INSTALL 2" TOP COURSE	389	TN	93.71	36,428	
CATCH BASINS	10	EA	2,250.00	22,500	
15" RCP	1,050	LF	13.50	14,175	
BEDDING	156	CY	19.85	3,088	
LANDSCAPING	1	LS	25,000	25,000	
SUBTOTAL OFF SITE CONSTRUCTION				\$342,000	
ESCALATION	\$342,000	\$\$'s	5%		\$17,000
DESIGN CONTINENCY	\$359,000	\$\$'s	10%		\$36,000
CONSTRUCTION CONTINGENCY	\$395,000	\$\$'s	5%		\$20,000
CONSTRUCTION MANAGERS SERVICES	\$415,000	\$\$'s	10%		\$42,000
STATE PERMIT FEE	\$457,000	\$\$'s	0.03%		\$0
LOCAL PERMIT FEE			<<assume not required>>		

TOTAL OFF SITE CONSTRUCTION \$457,000

NOTES:





At All-Star Transportation we understand our commitment and responsibilities to the communities we serve goes beyond the safe transportation of students. We strive to better our communities through active participation in community events, heightening school bus safety awareness, employee incentive programs, and much more. We make every effort to continue to be Connecticut's LEADER in School Bus Transportation. Owners John Dufour, sister Leslie and brother Richard collectively share over 75 years of industry experience. This sibling trio relies strongly on each other's individual attributes and experience, creating an outstanding corporate management team. All-Star Transportation employs over 750 team members including managers, dispatchers, safety supervisors, mechanics, monitors, and of course drivers. We operate over forty five (45) routes daily for the Newtown Public Schools. Our drivers reside in the community with many having children in the school system. All-Star Transportation proudly provides safe transportation to the Newtown Community.

NOTES:





BL Companies has a wealth of experience designing K-12 schools. Our multidisciplinary team of architects, landscape architects, structural, MEP, and civil engineers has the expertise to create environments with flexible, sustainable designs and durable, maintainable materials. We are experts at understanding each school's individual goals, which enables us to develop design solutions that effectively meet our clients' needs while enhancing the character of the school community.

Aesthetics, safety and environmental comfort are equally vital components to a successful design. Our goal is to create distinctive environments that meet – or exceed – our clients' needs for function and efficiency. Whether creating enhancements to existing structures or new structure, our extensive experience in academic building assessment ensures an informed approach toward renovation design and adaptive reuse.

BL Companies has proven specialized knowledge in K-12 facilities & building envelope design. Our in-house resources and the K-12 leadership team have executed over 50 successful K-12 school projects throughout Connecticut. Our Education Design Studio endeavors to create schools that are:

- Enhancing the learning experience
- Efficient to operate & maintain at high standards
- Safe places to learn
- Flexible designs that will serve the students & the community through changes in technology
- Delivered on time and within budget

We are committed to being responsive to our clients by listening carefully, understanding their needs and contributing to their success by delivering solutions to achieve their goals. A selection of BL Companies' recent K-12 projects include:

- Mary M. Hooker Environmental Sciences Magnet School, Grades PK-8 , Hartford – LEED PLATINUM
 - **2012 Outstanding Design – American School & University**
- Davis Street Arts & Academics Magnet School, Grades PK-8 , New Haven – High Performance Building
 - **2012 Outstanding Project – Learning by Design**
- Meeting House Hill Elementary School, Grades 3-5 , New Fairfield – LEED SILVER
- New Fairfield Middle School Media Center, Grades 6-8, New Fairfield
- New Fairfield High School Renovations, Grades 9-12, New Fairfield
- Cheshire Public Schools, Various Projects, Cheshire

NOTES:



CHERRY HILL



CONSTRUCTION

Cherry Hill Construction Co. Inc. is owned and operated by the Sachs family. Building on more than 56 years and billions of dollars of completed projects, we are an industry-leading construction firm. We value and develop our people, because we know that they that are our future.

We believe in integrity and in fair dealing with our clients and others, and we will meet their challenges with our talented people and years of experience.

We will continue to excel at making success stories out of every project we undertake, no matter how big or how small.

Cherry Hill Construction has become a major force in the Northeast, as both a building contractor and heavy civil works construction company with a rich history of diversity and exceeding expectations, we strive to help our employees grow and mature into the leadership of tomorrow.

We feel that building a team is about choosing the right people and then giving them the tools to perform at their best.

NOTES:



CHRISTOPHER R. LAUX, A.I.A. / architect / building official / consultant

Firm Profile:

In April of 2008, after serving for ten years, Christopher Laux retired from his position as State Building Inspector for the State of Connecticut. He decided to utilize the thirty plus years of experience he had gained using building and fire safety codes in his various careers as an architect, builder, municipal building official and State Building Inspector. He re-established his architectural practice which had been inactive during his stint with the State as a sole proprietorship under the name of Christopher R. Laux, A.I.A./Architect. This time around, rather than a full-service practice, he decided to specialize in building and fire safety code consulting. He also decided that to maintain quality control he would practice without employees.

Since then, he has worked individually with a variety of clients including municipal government; design professionals; building owners; and contractors. Services provided include: code consulting for building, fire and Federal accessibility requirements, utilizing both codes and referenced standards; working with building owners preparing fire safety code violation plans of correction; plan review for schematic design, design development and/or construction documents; preparation of building and fire safety code modification requests; building and fire safety code inspections; and representing clients before local and State building and fire code officials and the State Codes and Standards Committee.

Enclosures:
Partial list of clients
Resume

Post Office Box 636, Woodbury, Connecticut 06798-0636 / (203) 263-5787

NOTES:





CLARIS CONSTRUCTION, INC.

Claris Construction, Inc. is an award winning, professional Design-Build firm based in Newtown Connecticut, founded in 1991 by Philip Clark A.I.A. Our market segments include education, non-profit organizations, healthcare, recreation, industrial, interior fit-outs, retail and mixed use. With a multidimensional team of construction professionals, including architects, engineers, project managers and construction supervisors, Claris has designed and built numerous facilities throughout Connecticut and eastern New York State and specializes in every aspect of building design and construction. Claris works cohesively to ensure that programs, budgets and schedules are adhered to throughout the life of the project.



Foremost in our designs is a Life cycle cost analysis of all building systems. Having both design and construction professionals under one roof allows Claris to evaluate each building system and product during the design phase to determine its true life time value to the project. Our extensive experience in the design-build field includes expertise in value engineering which ensures that unnecessary construction costs are eliminated, advocating for improved efficiencies and alternative technologies that will enhance the project and not sacrifice quality. This has provided our clients with an exceptional customer experience throughout our 22 year history.

Our client's Return on Investment (ROI) drives all design decisions because we realize our projects require a considerable financial investment. Our dedication to providing clients with the highest level of service incorporates expertise in innovative technologies like Building Information Modeling (BIM) and Green design. Our design and construction professionals are Revit and ArchiCad trained with LEED certification and have Green projects experience including the Newtown Youth Academy and the Danbury Whole Foods market, locally.

Our extensive experience in completing complex, intricate projects includes the Danbury Hospital Rehabilitation Center and the Surgical Center for Newtown Veterinary Hospital. Some examples of our educational and daycare projects include the Goddard School, Country Kids, the Unquowa School, the Wooster School and the Connecticut Center for Child Development.



NOTES:



3 PRIMROSE STREET
NEWTOWN, CT 06470
TEL. (203) 270-4276
FAX (203) 270-4278



George Benson, Director
Planning and Land Use

TOWN OF NEWTOWN

LAND USE AGENCY



George Benson, Director and Rob Sibley, Deputy Director of Planning and Land Use supervise the Newtown Land Use Agency. The Agency was formed in 1998 to consolidate all the Town Land Use functions to facilitate future planning, development, permit and enforcement processes. The Agency responsibilities include Town Planning, Zoning, Aquifer Protection, Forestry Practices, Open Space, Inland Wetlands and the Plan of Conservation and Development. The Agency is advisory and administrative staff for the Planning and Zoning, Inland Wetlands, Conservation Commissions and The Zoning Board of Appeals. The Agency reviews commercial, residential and municipal developments, conducts pre-application meetings, verifies land use compliance, completes site and environmental assessments.

NOTES:



History

Turner was founded in 1902 and throughout its history has been associated with the highest standards of service, quality, and integrity. Turner provides a full range of Construction Related



Services, serving as a Program Manager, Construction Manager at Risk, General Contractor, or as a Design-Build Firm. Turner is recognized as the leading General Builder for Education Projects throughout the U.S., and is also the leading builder in most of the other major market segments, including Healthcare, Commercial, Laboratory, and Government work. With 46 offices throughout the United States, and additional offices throughout the world, Turner has the most comprehensive local office network in the industry. This combination of broad geographic reach and local presence has allowed Turner to develop strong and lasting relationships with the public and private clients within the communities that we serve.

Local Presence

All services provided for the Sandy Hook School project would be managed by our Milford office, which performs on average \$300 Million of work annually. Some of the features of our local office include:

- A total of 150 local construction management professionals
- In House Estimating Department: 12 Full Time Estimators, including Structural, Envelope, Interiors, and MEP Specialists.
- In House Purchasing Department: 5 Full Time Purchasing Agents w/ extensive private and public bidding experience.
- In House Safety Team – Committed to Injury Free Construction.
- Dedicated Virtual Technologies Staff to Support the Utilization of BIM on our projects.
- Over 60 LEED AP's on our local staff to support the implementation of sustainable practices into the services we provide.
- Staff with Diverse Project Experience including Program Management and Construction Management Services.

K-12 Experience in Connecticut

Turner has performed over one hundred K-12 projects within the State of Connecticut which include a number of repeat projects for school clients, which speaks to Turner's commitment to service and the level of integrity and excellence that has enabled our Milford office to become the largest builder of educational facilities in the Connecticut. Turner takes pride in the fact that we can tailor our services to meet the specific needs of each of our respected clients by utilizing the extensive resources of a national firm, and our knowledge & presence in the local Connecticut market.

ENR TOP 400 SOURCEBOOK: GENERAL BUILDING

EDUCATION

RANK | FIRM

1 | THE TURNER CORP.

\$ MILL

REVENUE

1,260.0

K-12 Projects

- Beecher Road Elementary, Woodbridge
- Branford High School
- Bristow Middle School, West Hartford
- Broadview Elementary, Danbury
- Brunswick School, Greenwich (Mult.)
- Cromwell Schools (Mult.)
- Darien Schools (Mult.)
- Fairfield Schools (Mult.)
- Frenchtown Elementary, Trumbull
- Glenville Elementary, Greenwich
- Greenwich Schools (Mult.)
- Greenwich Academy (Mult.)
- Hartford Schools
- Howell Cheney RVTS, Manchester
- Loomis Chaffee School (Mult.)
- Manchester Schools
- Masuk High School, Monroe
- Milford Schools (Mult.)
- New Canaan Country School (Mult.)
- Norwalk Schools (Mult.)
- Norwich Technical High School
- Portland High School
- Plainfield High School
- Plainville Schools (Mult.)
- Region 8 Schools (Mult.)
- Region 15 Schools (Mult.)
- Region 16 Schools
- Samuel Staples Elementary, Easton
- Seymour High School
- Spring Glen Elementary, Hamden
- St. Luke's School, New Canaan (Mult.)
- Stamford Schools (Mult.)
- Wallingford Schools (Mult.)
- Westport Schools (Mult.)



Masuk High School, Monroe



Samuel Staples Elementary School, Easton



Pomperaug High School, Southbury