

**WEST SIDE ELEMENTARY SCHOOL, GROTON, CT.
SEQUENCE OF CONSTRUCTION**

June 26, 2019

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**CITY OF GROTON CONNECTICUT
ZONING AND BUILDING DEPARTMENT**

**SITWORK PHASE A – THREE-STORY BUILDING FOUNDATION AND CONSTRUCTION
STAGING AREA (ANTICIPATED TIMELINE - APRIL 13, 2020 THROUGH JULY 10, 2020):**

1. LIMITS OF CONSTRUCTION TO BE STAKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
2. SET-UP PERIMETER EROSION CONTROLS FOR THIS PHASE OF CONSTRUCTION.
3. INITIATE WEEKLY EROSION CONTROL INSPECTIONS AND MONITORING PER CT DEEP CONSTRUCTION STORMWATER GENERAL PERMIT REGISTRATION.
4. INSTALL PERIMETER TEMPORARY FENCING AND GATES
5. CONSTRUCT CONSTRUCTION TEMPORARY ACCESS ROAD TO WORK AREA.
6. INSTALL TEMPORARY SEDIMENT TRAP(S) FOR THIS PHASE
7. STRIP TOPSOIL AT BUILDING FOOTPRINT AND CONSTRUCTION STAGING AREA (EXISTING PLAYING FIELD) AND ALONG CONSTRUCTION ACCESS ROAD. TOPSOIL IS TO BE STOCKPILED IN DESIGNATED AREAS.
8. AT CONSTRUCTION STAGING AREA - PLACE FILTER FABRIC OVER SUBSOIL AND COVER WITH 6-INCHES OF CRUSHED STONE. THE STONE IS TO BE MAINTAINED UNTIL SUCH TIME IT NEEDS TO BE REMOVED TO RECONSTRUCT PLAYING FIELD.
9. REMOVE UNSUITABLE SOILS AT BUILDING FOOTPRINT AND BEGIN EXCAVATION FOR BUILDING FOUNDATION. BEGIN CONCRETE WORK FOR FOOTINGS AND FOUNDATION WALLS.

**SITWORK PHASE B – SINGLE-STORY BUILDING FOUNDATION, DEMOLISH EXISTING
SCHOOL BUILDING AND CONSTRUCT NEW PARKING AREAS AND DRIVES (ANTICIPATED
TIMELINE - JULY 2020 THROUGH PROJECT COMPLETION IN 2021):**

1. SET-UP PERIMETER EROSION CONTROLS FOR THIS PHASE OF CONSTRUCTION.
2. INSTALL PERIMETER TEMPORARY FENCING AND LOCKED GATES TO SECURE CONSTRUCTION ENTRANCES FROM BRANDEGEE AVENUE.
3. INSTALL TEMPORARY SEDIMENT TRAP(S) FOR THIS PHASE.
4. STRIP EXISTING PAVEMENTS AND REMOVE UNSUITABLE SOILS AT BUILDING FOOTPRINT. STAKE OUT BUILDING FOOTPRINT AND BEGIN EXCAVATION FOR BUILDING FOUNDATION. BEGIN CONCRETE WORK FOR FOOTINGS AND FOUNDATION WALLS.

5. BEGIN ABATEMENT AND DEMOLITION OF EXISTING WEST SIDE MIDDLE SCHOOL BUILDING.
6. BEGIN MASS EXCAVATION OF DETENTION BASIN AND FORMATION OF EMBANKMENTS. CONSTRUCT BASIN AND INSTALL OUTLET STRUCTURES DIRECTING SURFACE RUNOFF TO BASIN. THE BOTTOM OF THE BASIN SHALL BE UNDER EXCAVATED BY 12" TO 18" TO BE UTILIZED AS SEDIMENT BASIN DURING CONSTRUCTION.
7. ONCE FOUNDATION WALLS ARE UP AND THE BUILDING FOOTPRINT IS PERMANENTLY STABILIZED, BEGIN INSTALLING UNDERGROUND UTILITIES FOR THE BUILDING IN CONJUNCTION WITH CONSTRUCTING THE BUILDING.
8. CONTINUE CONSTRUCTION OF BUILDING AND INSTALLATION OF UNDERGROUND UTILITIES.
9. INSTALL REMAINING UTILITIES UNDER AND AROUND PARKING LOTS AND DRIVES. PLACE BINDER COURSE OF PAVEMENT AS BASE COURSE IS BROUGHT UP TO GRADE.
10. PREPARE SUBGRADE OF DRIVEWAYS AND PLACE BITUMINOUS BINDER COURSE.
11. REMOVE CONSTRUCTION STAGING AND LAYDOWN AREA TO BEGIN FIELD RECONSTRUCTION. RENOVATE SOILS AND DECOMPACT AS NEEDED TO ACCOMMODATE FIELD CONSTRUCTION.
12. COMPLETE FIELD AND ALL SITE IMPROVEMENTS
13. PLACE PERMANENT SEEDING AT AREAS DISTURBED DUE TO CONSTRUCTION AND INSTALL PLANTINGS
14. CLEAN STORM DRAINAGE SYSTEM OF ALL SEDIMENT AND DEBRIS. RAKE OUT AND FINISH GRADE BOTTOM OF STORMWATER BASIN. COMPLETE ALL PLANTINGS AND PERMANENT STABILIZATION OF STORMWATER MANAGEMENT BASIN AND OUTLET SPLASH PAD, SPILLWAY AND LEVEL SPREADER.
15. REMOVE ALL TEMPORARY PERIMETER FENCING AND TEMPORARY SEDIMENTATION AND SOIL EROSION CONTROL MEASURES.
16. CLEAN AND SWEEP ALL PAVED SURFACES TO PREPARE FOR FINAL PAVING.
17. PLACE FINAL COURSE OF BITUMINOUS PAVEMENT AT DRIVES AND PARKING LOTS.
18. INSTALL ALL PAVEMENT MARKINGS, SIGNAGE, SITE LIGHTING, AND SITE FURNISHINGS.
19. CLOSE OUT PROJECT AND FILE NOTICE OF TERMINATION FORM TO CLOSE CT DEEP STORMWATER GENERAL PERMIT REGISTRATION.



Building Confidence

Site Logistics Plan – Phase B

West Side Elementary School, Groton, CT

July 19, 2019

May 15, 2020 until the end of the 2019/2020 School Year

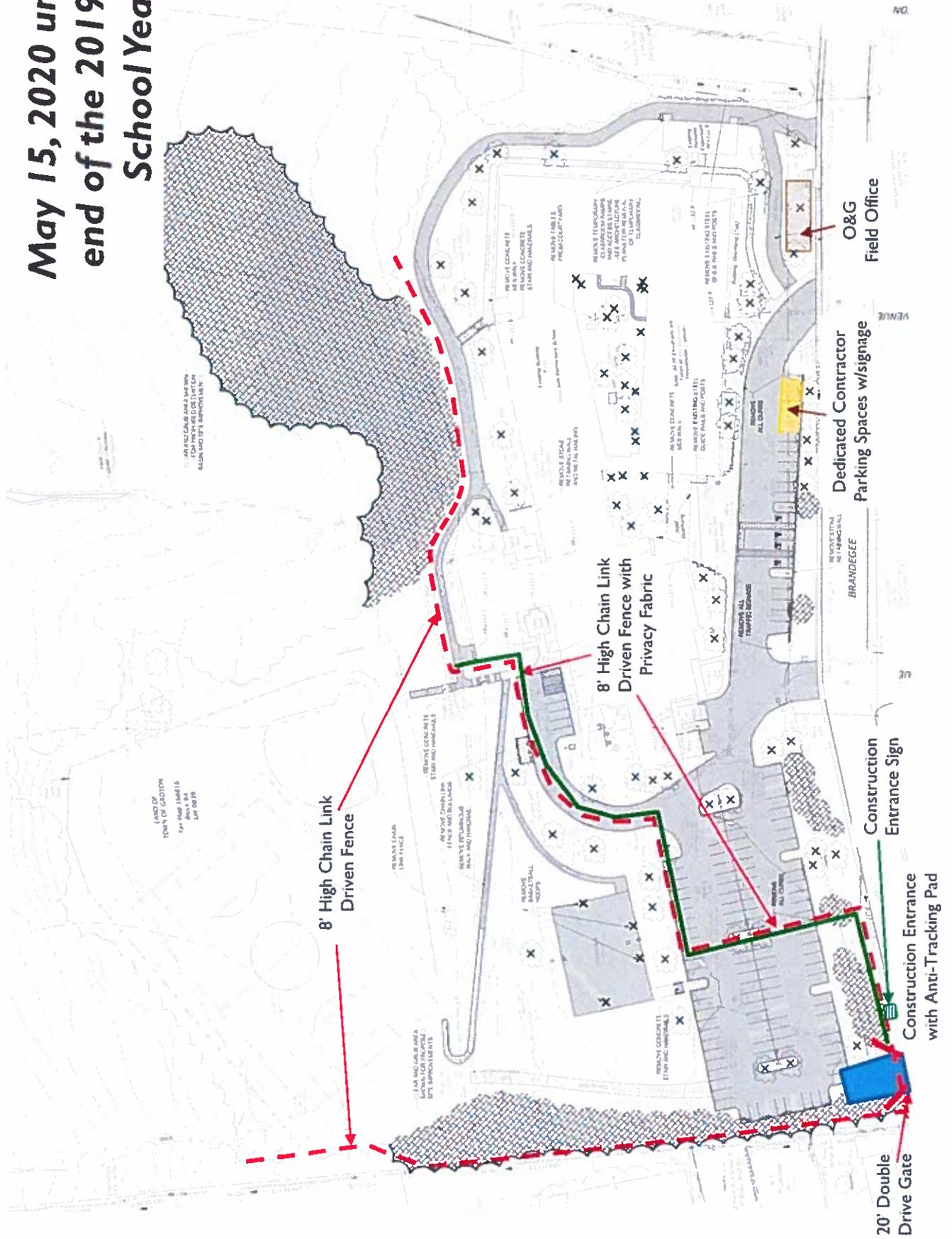


Exhibit 12

Volume Report
 Subgrade vs. Stripped

	Total		Area		Volume		Comp/Ratio		Compact		Export -Import	Change Per .1 Ft
	Cut	Fill	OnGrade	Fill	Cut	Fill	Cut	Fill	Cut	Fill		
Building	27,420	4,878	21,794	748	227	2,204	1.00	1.00	227	2,204	-1,977	102
Building	15,425	13,590	1,574	261	1,740	56	1.00	1.00	1,740	56	1,684	57
Building Sub:	42,845	18,468	23,368	1,009	1,967	2,260			1,967	2,260	-293	159
Pavement	115,323	88,637	25,403	1,283	10,791	3,393	1.00	1.00	10,791	3,393	7,398	427
Play Area	25,738	11,936	13,782	20	749	3,319	1.00	1.00	749	3,319	-2,570	95
Topsoil	207,209	126,513	62,895	17,801	16,096	6,082	1.00	1.00	16,096	6,082	10,014	767
Topsoil	1,003	0	1,003	0	0	68	1.00	1.00	0	68	-68	4
Topsoil	5,722	4,505	1,096	121	284	26	1.00	1.00	284	26	258	21
Topsoil	2,832	2,822	9	1	371	2	1.00	1.00	371	2	369	10
Topsoil	656	656	0	0	86	0	1.00	1.00	86	0	86	2
Topsoil	298	295	0	3	24	0	1.00	1.00	24	0	24	1
Topsoil	298	294	0	4	8	0	1.00	1.00	8	0	8	1
Topsoil	3,558	3,558	0	0	311	0	1.00	1.00	311	0	311	13
Topsoil Sub:	221,576	138,643	65,003	17,930	17,180	6,178			17,180	6,178	11,002	819
Regions Total	405,482	257,684	127,556	20,242	30,687	15,150			30,687	15,150	15,537	1,500

Stripping Qtys	Plane Area	Slope Area	Depth	Volume
Bit Sidewalk	11,574	11,603	0.167	72
Bit Sidewalk	189	190	0.167	1
Bit Sidewalk	9,946	9,955	0.167	62
Bit Sub:	21,709	21,748		135
Building	70,764	70,764	0.500	1,310
City Conc Walk	1,261	1,262	0.417	19
City Conc Walk	451	451	0.417	7
City Sub:	1,712	1,713		26
Conc Sidewalk	1,646	1,646	0.417	25
Conc Sidewalk	29	30	0.417	0
Conc Sidewalk	42	43	0.417	1
Conc Sidewalk	762	763	0.417	12
Conc Sidewalk	15,551	15,566	0.417	240
Conc Sidewalk	186	186	0.417	3
Conc Sidewalk	195	195	0.417	3
Conc Stairs	163	170	2.250	14
Conc Stairs	223	230	2.250	19
Conc Stairs	83	86	2.250	7
Conc Stairs	44	47	2.250	4
Conc Sub:	18,924	18,962		328
Pavement	59,218	59,325	0.333	732
Topsoil	7,825	7,825	0.500	145
Topsoil	690	690	0.500	13
Topsoil	453	453	0.500	8
Topsoil	314	314	0.500	6
Topsoil	314	314	0.500	6
Topsoil	223,558	225,946	0.500	4,184
Topsoil Sub:	233,154	235,542		4,362
Stripping Total	405,481	408,054		6,893

Sectional Qtys	Plane Area	Slope Area	Depth	Volume
Building	27,420	27,420	1.500	1,523
Building	15,425	15,425	1.500	857
Building Sub:	42,845	42,845		2,380
Pavement	115,323	115,389	1.833	7,834
Play Area	25,738	25,744	1.500	1,430
Topsoil	1,003	1,003	0.500	19
Topsoil	5,722	5,723	0.500	106
Topsoil	2,831	2,832	0.500	52
Topsoil	656	656	0.500	12
Topsoil	298	298	0.500	6
Topsoil	298	298	0.500	6
Topsoil	3,558	3,559	0.500	66
Topsoil	207,209	211,082	0.500	3,909
Topsoil Sub:	221,575	225,451		4,176
Sectional Total	405,481	409,429		15,820

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