Waterbury Board of Education

THE CITY OF WATERBURY 236 Grand Street ~ Waterbury, CT 06702 203-574-8009

MEMORANDUM

FROM: Carrie A. Swain, Clerk
Board of Education

DATE: June 5, 2018

TO: Michael J. Dalton, City Clerk

SUBJECT: Notice of Committee Meetings – Thursday, June 7, 2018, 5:30 p.m., Kingsbury School
Notice of RESCHEDULED Regular Meeting – Thursday, June 28, 2018, 6:30 p.m., Waterbury Arts Magnet School Atrium

The Committees of the Board of Education will meet on Thursday, June 7, 2018, Kingsbury School, Gym, 220 Columbia Boulevard, Waterbury, CT.

AGENDA

SILENT PRAYER

PLEDGE ALLEGIANCE TO THE FLAG

1. *Committee of the Whole/20 minutes* ~ Principal's Report (no backup) – Erik Brown.

PUBLIC SPEAKING

2. *Committee of the Whole/15 minutes* ~ Discussion: CABE's Equity Toolkit for Connecticut Boards of Education – John Ramos, Mary Broderick, Don Harris.

3. *Committee of the Whole/5 minutes* ~ Student Report from the 2018 NICEE (National Invention Convention and Entrepreneurship Expo) (no backup) – D. Schwartz, J. Reed.

4. *Committee of the Whole/15 minutes* ~ Report: Coherence and Capacity Review (to be distributed) – Richard Lemons/CT Center for School Change.

5. *Committee of the Whole/15 minutes* ~ Presentation: District Parent Engagement Report – M. Marold, et al.

6. *Committee on Finance/5 minutes* ~ Request approval of the submittal of the Connecticut State Department of Education's 2018-2019 Carl D. Perkins Grant *(consensus needed)* – L. Allen Brown, J. Reed.

7. *Committee on Finance/5 minutes* ~ Request approval of Amendment Number One to the Agreement with PTSMA, Inc. d/b/a Select Physical Therapy, to provide athletic trainer services for interscholastic sports – J. Gorman.

8. *Committee on Finance/10 minutes* ~ Presentation: Proposed Food Service Department relocation – L. Franzese.

9. *Committee on Finance/3 minutes* ~ Request approval to participate in the Healthy Food Certification Program – L. Franzese.

10. *Committee on Curriculum/5 minutes* ~ Request approval of an Agreement with Waterbury Young Men's Christian Association (YMCA) to provide student prevocational and employment training – M. Baldwin.

11. *Committee on Finance/5 minutes* ~ Request approval of Amendment to the Professional Services Agreement with Evergreen Center for out-of-district student placements as required by their IEP – M. Baldwin.

12. *Committee on Finance/5 minutes:* ~ Request approval of a College Readiness and Success Contract with College Board for exams, products, and services (to be distributed) – P. Whyte.

13. *Committee on Finance/5 minutes* ~ Monthly Expenditure Report for April 2018 – D. Biolo.

14. *Committee of the Whole/10 minutes* ~ Informational: Summer School 2018 – D. Schwartz, et al.

15. *Committee on Finance/5 minutes* ~ Request approval of a contract with Glen Terrace Landscaping, Inc., to provide playground improvements at Chase, Generali, and Walsh Schools – R. Brenker.

16. *Committee of the Whole/5 minutes* ~ Informational: Summer Maintenance Projects – R. Brenker.

17. *Committee on School Facilities & Grounds/2 minutes* ~ Use of school facilities by school organizations and/or City departments.

18. *Committee on School Facilities & Grounds/3 minutes* ~ Use of school facilities by outside organizations and/or waiver requests.

19. *Superintendent's Notification to the Board/5 minutes:*

    a. Athletic appointments:
    Secondi, John – WSMS Swimming Coach, effective 11/01/18.
    Acevedo Usaga, Mateo – Mayor O'Leary's Run Club Mentor, eff. 05/02/18.

    b. Appointments:
    Blakeslee, Marissa – Bucks Hill Annex PreK Summer Program Site Administrator.
    DiGiovanni, Melissa – SOAR Summer School Site Administrator, Duggan.
    Irrera, Ray – Secondary Summer School Program Coordinator.
    Rosser, Jennifer – SOAR Summer School Site Administrator, Gilmartin.
    Tomasella, Diurca – SOAR Summer School Site Administrator, Carrington.
    Ferrucci, Kathleen – ESY Summer School Administrator, CHS/WMS.
    Miller, Jamie – ESY Summer School Administrator, WHS/NEMS.

    c. Grant funded appointments effective immediately:
    Disla-Minaya, Melanie – Recreation Specialist, 21st Century Grant, part time, non-union and without benefits.
    Garafola, Brian – Accountant II, School Business Office, salary and benefits governed by SEIU, funded by IDEA.
    Martinez, Latasha – Family Resource Center Coordinator, Reed School, salary and benefits governed by SEIU.

    d. Crosby High School's STEAM Summer Beautification Project appointments, 12 days, salary according to individual's contract:
    Mimi De La Rosa
    Rachel Spagnoletti
    Paul Gwiazdoski
    Eileen Stow

e. Maloney Magnet School Summer School Program appointments, salary according to contract, subject to enrollment:

Administrator	Donna Cullen	
Curriculum Support/Admin Sub	Ann Drewry, Stacey Gittings	
Curriculum Support	Margaret Palomba	
IT	Frank Vigliotti	
Subs	Cristina Crespo & Christine Mitchell-Robinson	
Secretary	Shanna Zawislak & Anna Perugini	
Kindergarten	Math	Cherie Couture
	Technology	David Couture
	Reading	Siobhan Kalnins
	Reading	Jennifer Hibbs
First Grade & Second Grade	Math	Katie Pino
	Reading	Marlene Madera
	Technology	Barbara Moulthrop
Third Grade & Fourth Grade	Math/Science	Branden Strileckis
	Reading	Esther D'Esposito
	Writing	Andrew Dunn
	Technology	Erin Fogarty

f. Rotella Magnet School's Summer Program appointments contingent upon enrollment:

Administrator: Robin Henry
AV Tech: Bryan Michaud
Grants Facilitator/Clerical: Jean Zastaury
Network Specialist: Michael Thompson

Teachers – Enrichment:
Christina Altieri
Suzanne Dionne
Brenda Ledbetter
Ashley McLaren
Joseph Silva
Veronica Summerfield
Melissa Vargas

Teachers - Academics
Julia Matthews
Mary Monroe
Monica Santovasi
Cheyenne Walent

Aides:
Lisa Alexander
Debra Begin
Ersilia Cicchiello
Jennifer DeJesus
Victoria Lanouette
Darice Leach
Melissa Lloret
Lauren Lombardi
Elizabeth Lopez
Kathleen Sugrue
Martha Thomas

Subs (if needed):
Lauren Argenta
Carla Cruess
Ellen Lee

. g. Adult Education summer appointments effective July 9, 2018:

NAME		POSITION	HRS/RATE
ADULT HIGH SCHOOL CREDIT DIPLOMA (AHSCDP):			
Harper	Julia	Substitute	@ $32.00 p/hr
Langeull	Margaret	Art Instructor	21 hrs p/wk @ $32.00 p/hr
Linskey	Tara	Health Instructor	21 hrs p/wk @ $32.00 p/hr
McDonald	Brian	Substitute	@ $32.00 p/hr
Mobilio	James	Social Studies Instr.	21 hrs p/wk @ $32.00 p/hr
Moreau	Margaret	Math Instructor	21 hrs p/wk @ 32.00 p/hr
Mottillo	Carissa	English Instructor	21 hrs p/wk @ $32.00 p/hr
Muro	Nancy	Parenting Instructor	21 hrs p/wk @ $32.00 p/hr
Person	Jocelyn	Science Instructor	21 hrs p/wk @ $32.00 p/hr
Riemer	Wayne	English Instructor	21 hrs p/wk @ $32.00 p/hr
AHSCDP DISTANCE LEARNING:			
Sica	Alan	Civics	10 hrs p/wk @ $32.00 p/hr
Veneziano	Ellen	General Math IB	10 hrs p/wk @ $32.00 p/hr
ADULT BASIC EDUCATION (ABE)/GENERAL EDUCATION DEVELOPMENT (GED):			
Baranowski	Judith	ABE Instructor	21 hrs p/wk @ $32.00 p/hr
Chasse	Jenny	ABE Instructor	21 hrs p/wk @ $32.00 p/hr
Chesnas	Stanley	GED Instructor	21 hrs p/wk @ $32.00 p/hr
Monroe	James	GED Instructor	21 hrs p/wk @ $32.00 p/hr

Scursso	Lori	ABE Instructor	21 hrs p/wk @ $32.00 p/hr

GUIDANCE STAFF:

Aucella	Laurence	ESL School Counselor	21 hrs p/wk @ $32.00 p/hr
Jordan	Ellen	School Counselor	21 hrs p/wk @ $32.00 p/hr
Maschi	Suzette	School Counselor	21 hrs p/wk @ $32.00 p/hr
Wasilewski	Diane	Guidance Secretary	21 hrs p/wk @ $14.00 p/hr

ENGLISH AS A SECOND LANGUAGE (ESL):

DeBiase	Jeannette	Facilitator	30 hrs p/wk @ $32.00 p/hr
Martinez	Mildred	ESL Instructor	12 hrs p/wk @ $32.00 p/hr
Perugini	Maryann	ESL Instructor	12 hrs p/wk @ $32.00 p/hr
Rotella	Richard	ESL Instructor	12 hrs p/wk @ $32.00 p/hr
Salgado	Roberto	ESL Instructor – OIC	12 hrs p/wk @ $32.00 p/hr
Soto	Denise	ESL Instructor	12 hrs p/wk @ $32.00 p/hr
Xhafi	Ermonela	ESL Instructor	12 hrs p/wk @ $32.00 p/hr

Connecticut Adult Reporting System (CARS):

Monaco	Roxanne	Administrator	12 hrs p/wk @ $35.77 p/hr

TECHNOLOGY:

Blancato	Alfred	Computer Analyst	21 hrs p/wk @ $24.00 p/hr
Santoro	Joseph	Computer Analyst	35 hrs p/wk @ $24.00 p/hr

EDUCATIONAL AIDES:

Gonillo	Salvatore	Resource Room/Testing	21 hrs p/wk @ $21.50 p/hr
Nonamaker	Kim	ABE	21 hrs p/wk @ $21.50 p/hr
Pelletier	Laurie	Bookroom Aide	21 hrs p/wk @ $12.00 p/hr
Stanco	Michael	Res. Room/Registration	21 hrs p/wk @ $21.50 p/hr

GED EXAMINATION:

Bacik	Madeleine	CBT Test Administrator	As needed @ $25.53 p/hr
Felton	Tanya	CBT Test Administrator	As needed @ $16.39 p/hr
Gonillo	Salvatore	CBT Test Administrator	As needed @ $21.50 p/hr
Rinaldi	Nancy	CBT Test Administrator	As needed @ $14.79 p/hr
Iasevoli	Luigi	Saturday Security	As needed @ $20.00 p/hr

SECURITY:

DeBonis	Michael C	Security/Aide	30 hrs p/wk @ $21.50 p/hr
Iasevoli	Luigi	Security	30 hrs p/wk @ $20.00 p/hr

CUSTODIAL/AIDES:

Evon	Randy	Security/Custodial Aide	35 hrs p/wk @ $13.00 p/hr
Iaiennaro	Michael	Security/Custodial Aide	30 hrs p/wk @ $11.00 p/hr
Iasevoli	Peter	Head Custodian	35 hrs p/wk @ $16.50 p/hr
SantaBarbara, Sr.	Louis	Security/Custodial Aide	35 hrs p/wk @ $11.00 p/hr
Zabbara	Ian	Security/Custodian Aide	25 hrs p/wk @ $11.00 p/hr

h. <u>Food Service Summer appointments:</u>

Name		Position	Site/Location	Rate
Lisa	Emanuel	Site Supervisor	Boys/Girls Club	$10.10
Sherl	Knight	Site Supervisor	Bucks Hill School	$10.10
Nilda	Cortes	Site Supervisor	Carrington	$10.10
Krista	Baptista	Site Supervisor	Carrington	$10.10
Agnes	Colon	Site Supervisor	Chase Park House	$10.10
Kim	Plude	Site supervisor	Chase Park House	$10.10
Ciara	Pedraza	Site Supervisor	Crosby/Wallace	$10.10
Cheryl	Laviana	Site Supervisor	Crosby/Wallace	$10.10
Debbie	Davis	Site Supervisor	Duggan	$10.10
Elizabeth	Guisto	Site Supervisor	Duggan	$10.10
Terri	Brooks	Site Supervisor	Duggan	$10.10
Paula	Mucci	Site supervisor	Gilmartin	$10.10
Maria	Rego	Site Supervisor	Gilmartin	$10.10
Bernadette	Donnelly	Site Supervisor	Gilmartin	$10.10
Rose	Sarandrea	Site Supervisor	Maloney	$10.10

Seritha	Anglin	Site Supervisor	North End Rec Center	$10.10
Julia	Rojas	Site Supervisor	River Baldwin	$10.10
Elaine	Greco	Site Supervisor	Rivera Memorial	$10.10
Pam	Wawer	Site Supervisor	Washington Park	$10.10
Linda	Generali	Site Supervisor	Washington Park	$10.10
Barbara	Kazlauskas	Site Supervisor	Waterville Rec	$10.10
Anele	Genova	Site Supervisor	Wilby/North End M.S.	$10.10
Jessica	Paul	Site Supervisor	Wilby/North End M.S.	$10.10
Maria	Rivera	Site Supervisor	Willow Plaza	$10.10
Bridgette	Nido	Site Supervisor	WOW	$10.10
Anne	Begnal	Office	WAMS	$10.10
Sandy	LaMadeline	Monitor	WAMS	$14.50
Michelle	April	Monitor	WAMS	$14.50
Lynn	Chance	Monitor	WAMS	$14.50
Robin	Salvetti	Monitor	WAMS	$14.50
Amy	Daugerdas	Prep	WAMS	$12.50
Patricia	Lowe	Prep	WAMS	$12.50
Lina	Matozzo	Prep	WAMS	$12.50
Alice	Pinto	Prep	WAMS	$12.50
Robin	Capozio	Prep	WAMS	$12.50
Donna	Ward	Prep	WAMS	$12.50
Wanda	Torres	Prep	WAMS	$12.50
Mike	Jones	Prep	WAMS	$12.50
Richard	Lewis	Driver		$20.73
Dave	Semanoff	Driver		$24.25
Elvis	Silva	Driver		$20.73
Stephen	Fillie	Driver		$20.73
Debbie	Finke	Coordinator	WAMS	$30.00
Isabel	DeSousa	Coordinator	WAMS	$30.00

i. Teacher transfers effective 2018/19 School Year:

Name		From	To
Anderson	Kate	WMS Gr 7 SPED	CHS SPED
Aquavia	Sara	Maloney Gr 1	Maloney Gr K
Aviles	Zuheill	Wilson Gr 2	Bucks Hill Bil. Gr 2
Bonini	Michelle	Bucks Hill Gr 5 (Interim)	Bucks Hill Gr 5 (Perm.)
Buda	Kevin	CHS Tech Ed - Electronics	KHS Tech Ed- Graphic Comm/Electronics I
Calash	Dana	Wilson LMS (Interim)	Wilson LMS (Perm.)
Card	Katherine	Driggs Gr 1	Maloney Gr 1
Conte	Joseph	Wilby PE/Health	WCA PE/Health
Cruess	Steven	Bunker Hill Gr 4	Bunker Hill Gr 5
Davis	Claudia	Sprague Gr 5 (Interim)	Sprague Gr 5 (Perm.)
DeFeo	Dawn	Bucks Hill Annex Pre-K SPED	Duggan Co-Taught Pre-K SPED
DeMars	Jacqueline	Carrington Gr 6 ELA/Geography	Driggs Gr K
Demirs	Matthew	WMS PE/Health (Interim)	WMS PE/Health (Perm.)
Dimach	Jennifer	Tinker Gr 2	WAMS SPED
Dionne-Gorman	Regina	Kingsbury Gr 4	Driggs Gr 1
Donahue	Jamie	WMS Health	WSMS PE/Health
Febles	Maria	Enlightenment Spanish	CHS Spanish
Gray	Stacy	Wilson Gr 5 (Interim)	Wilson Gr 5 (Perm.)
Holt	Laura	WMS Gr 8 SPED (Interim)	WMS Gr 8 SPED (Perm.)
Jasiulevicius	Margaret	Bunker Hill SPED-BDLC	Bunker Hill Co-Taught Gr K SPED
LeDay	Jennifer	Bucks Hill Gr 2 with Bilingual Support (Interim)	Bucks Hill Gr 2 with Bilingual Support (Perm.)
Lerz	Darlene	Bunker Hill Co-Taught Gr k	Chase Gr 1
Lyons	Donna	Bunker Hill Gr 4	WMS Gr 7 ELA
Miller	Grant	Kennedy ELA (Interim)	KHS ELA (Perm.)

Mulvehill	Michelle	Generali Gr 5 (Interim)	Generali Gr 5 (Perm.)
O'Brien	Nicholas	NEMS Numeracy Title I	WAMS Math
Perugini	Maryellen	Bunker Hill SPED	Maloney SPED
Perugini	Maryellen	Bunker Hill SPED	Maloney SPED
Sambrook	Nicole	Wilson Gr 3 (Interim)	Wilson Gr 3 (Perm.)
Taylor	Amy	Rotella Gr K (Interim)	Rotella Gr K (Perm.)
Tolly	Bianca	WCA Science/Biology (Interim)	WCA Science/Biology (Perm.)
Vargas	Shirelle	WMS Gr 6 SPED	Parochial SPED-IDEA

j. Retirements:
Baim, Pamela – Instructional Leadership Director, effective 06/30/18.
Lodge, Nancy – Non-public Special Education, effective 06/30/18.
Rikteraitis, Rick – Driggs/Kingsbury Music, effective 06/30/18.
Weed, Pamela – Carrington PreK, effective 06/30/18.

k. Resignations:
Azzara, Rachel – Chase Grade 2, effective 06/30/18.
Byrnes, Kristina – Bucks Hill Pre-K Special Education, effective 06/30/18.
Cabral, Jephrie – CHS Science, effective 06/30/18.
Lacey, Ami – State Street Special Education, effective 06/30/18.
Olaoye, Abioye – WAMS Math, effective 06/08/18.
Rubock, Jeremy – WHS Technology Education, effective 06/30/18.
Strand, Steven – Director of Teaching and Learning, effective 06/22/18.

EXECUTIVE SESSION

ADJOURNMENT

ATTEST: Carrie A. Swain
Carrie A. Swain, Clerk
Board of Education

#15

Waterbury Public Schools

236 Grand Street ◆ Waterbury, Connecticut 06702 ◆ (203) 597-3433 ◆ Fax (203) 574-6703

Robert Henry
Deputy Superintendent of Schools

Robert C. Brenker
Interim Chief Operating Officer
and Chief of Staff

MEMORANDUM

TO: Honorable Board of Aldermen Members

FROM: Robert C. Brenker, Interim Chief Operating Officer and Chief of Staff

DATE: May 24, 2018

SUBJECT: Contract with Glen Terrace Landscaping, Incorporated for Playground Improvements at Chase, Generali and Walsh Elementary Schools

The Education Department would like to contract with Glen Terrace Landscaping, Incorporated for Playground Improvements at Chase, Generali and Walsh Elementary Schools. Playground improvements include excavation, layout and the provision and installation of playground equipment, structure or modular unit in accordance with the manufacturer's installation instructions, including all appurtenances and accessories as required for a full and complete installation. Contract work will be substantially complete by August 15, 2018 and completed by August 24, 2018.

The total amount of the contract is $618,135, consisting of a base amount of $588,700 and a contingency of $29,435, which was bid by school (Chase $139,900 base plus $6,995 contingency, Generali $192,100 base plus $9,605 contingency, Walsh $256,700 base plus $12,835 contingency). Glen Terrace Landscaping was the only bidder for this project. The Parks and Recreation Department has utilized Glen Terrace Landscaping in the past for playscapes and been very satisfied with their work. The vendor's Tax Clearance and Disclosure are attached.

Thank you for your consideration.

RCB/mc

cc: Linda Wihbey, Corporation Counsel
File

CONSTRUCTION CONTRACT
for
Playground Improvements at Chase, Generali and Walsh Elementary Schools
between
City of Waterbury
and
Glen Terrace Landscaping, Inc.

THIS CONTRACT, effective on the date signed by the Mayor, is by and between the City of Waterbury, City Hall, 235 Grand Street, Waterbury, Connecticut (the "City") and Glen Terrace Landscaping, Inc., located at 759 Sherman Avenue, Hamden, Connecticut 06614, Connecticut, a State of Connecticut, a duly registered domestic corporation ("Glen Terrace").

WHEREAS, Glen Terrace submitted a bid to the City in response to **Invitation to Bid ("ITB") Number 6110** for Playground Improvements; and,

WHEREAS, the City accepted Glen Terrace's bid for **ITB Number 6110**; and

WHEREAS, the City desires to obtain Glen Terrace's services for Playground Improvements pursuant to the terms set forth in this Contract (the "Project").

NOW THEREFORE, THE PARTIES AGREE AND COVENANT AS FOLLOWS:

1. Scope of Services. Glen Terrace shall furnish all of the labor, services, equipment, materials, supplies, transportation, and incidentals necessary to complete the Project as specified in this agreement (also referred to herein as "Contract") and such shall be completed in a satisfactory manner, as reasonably determined by the City. All labor, services, equipment, materials, supplies, transportation, and incidentals shall comply with **(i)** any and all applicable local, state and federal laws, statutes, ordinances, rules and regulations, including without limitation all notice requirements thereunder, and **(ii)** generally accepted professional standards.

1.1. The Project consists of mobilization and site preparation; site removals; sedimentation and erosion control; earthwork and grading; fencing, guiderail and railings; site drainage; parking area, pavements and curbing; concrete sidewalks, stairs and curbing; bituminous concrete curbing; provision and installation of playground equipment; playground surfacing; topsoil, plantings and bark mulch at Walsh Elementary School, 55 Dikeman Street, Waterbury, CT, 06704; Generali Elementary School, 3196 East Main Street, Waterbury, CT, 06705; and Chase Elementary School, 40 Woodtick Road Waterbury, CT, 06705; as more particularly detailed and described in the Bid Documents which are attached hereto and made part hereof as part of Attachment A and are hereby made material provisions of this Contract. Attachment A shall consist of the following, which are attached hereto, are acknowledged by Glen Terrace as having been received, or otherwise hereby incorporated by reference as noted below, and all are made a part hereof:

i. City of Waterbury Invitation to Bid Number 6110, consisting of 108 pages (excluding Sample Contract and Contractor Compliance packet), including Project plans, specifications, drawings, supplemental conditions (Attached hereto).

ii. Bid Addendum Number 1 to City of Waterbury Invitation to Bid Number 6110, issued May 10, 2018, consisting of 1 page (Attached hereto).
iii. Bid Addendum Number 2 to City of Waterbury Invitation to Bid Number 6110, issued May 14, 2018, consisting of 3 pages (Attached hereto).
iv. Bid Addendum Number 3 to City of Waterbury Invitation to Bid Number 6110, issued May 15, 2018, consisting of 3 pages (Attached hereto).
v. Glen Terrace's response to City of Waterbury Invitation to Bid Number 6110, dated May 21, 2018, consisting of 51 pages (Attached hereto).
vi. Any and all amendment(s) and Change Orders, issued by the City after execution of Contract (Incorporated by reference).
vii. Stockholder's Affidavit; Non-Collusion Affidavit; Debarment Certificate (Incorporated by reference).
viii. Performance Bond and Payment Bond (Incorporated by reference).
ix. Certificates of Insurance (Incorporated by reference).
x. All applicable Federal, State and local statutes, regulations charter and ordinances (incorporated by reference)
xi. All permits and licenses (incorporated by reference)

1.2. The entirety of **Attachment A** plus this executed instrument are together deemed the Contract Documents (hereinafter collectively referred to as "Contract Documents"). The City's record copy of the Contract Documents shall control and shall be effective and binding on Glen Terrace. In the event that any provision in the Contract Documents conflict with any other provision therein, the provision in the component part of the Contract Document first enumerated below shall govern over any other component part which follows it numerically.

i. Contract Amendment(s) and Change Orders
ii. Contract
iii. Glen Terrace's Bid Form
iv. Federal, State, and local laws, regulations, charter and ordinances
v. Technical Specifications
vi. Drawings

2. Representations Regarding Qualification and Accreditation. Glen Terrace represents that its employees are licensed to perform the scope of work set forth in this Contract. Glen Terrace further represents that its employees have the requisite skill, expertise and knowledge necessary to perform the scope of work required under the terms of this Contract, including any supplementary work and the City relies upon Glen Terrace's representations.

2.1. Representations regarding Personnel. Glen Terrace represents that it has, or will secure at its own expense, all personnel required to perform the services under this Contract. Such personnel shall not be employees of or have any contractual relationship with the City, unless use of City employees or of personnel having a contractual relationship with the City is approved in writing. As set forth above, all the services required hereunder shall be performed by Glen Terrace or under its supervision and all personnel engaged in the work shall be fully qualified and shall be authorized or permitted under state or local law to perform such services.

2.2. Representations regarding Qualifications. Glen Terrace hereby represents that, to the extent required by Federal, State and Local statutes, regulations, codes, ordinances, and policies, that Glen Terrace and/or its employees be licensed, certified, registered, or otherwise qualified, Glen Terrace and all employees providing services under this Contract, are in full compliance with those statutes, regulations and ordinances. Upon City request, Glen Terrace shall provide to the City a copy of Glen Terrace's licenses, certifications, registrations, etc.

3. Responsibilities of Glen Terrace. Glen Terrace agrees to properly implement the services required in the manner herein provided. Glen Terrace shall, in addition to any other responsibilities set forth in this Contract and the Schedules and Attachments hereto, perform the following coincident with the performance of this Contract:

3.1. Due Diligence Obligation. Glen Terrace acknowledges its responsibilities to examine and to be thoroughly familiar with the City's bid document, including, but not limited to the plans, specifications, drawings and any addenda thereto. Glen Terrace hereby warrants and represents that prior to the submission of its proposal during the bid process it reviewed or was afforded opportunity, by the City, to review all physical items, facilities, services and functions essential to the satisfactory performance of the services required ("Due Diligence") and thereby certifies that all such items facilities, services and functions are included in this Contract and thereby warrants that:

3.1.1 it conducted or had opportunity to conduct all due diligence prior to the submission of its bid and, accordingly, any additional costs, services or products resulting from the failure of Glen Terrace to complete Due Diligence prior to submission of its bid proposal shall be borne by Glen Terrace. Furthermore, Glen Terrace had the opportunity during the bid process to ask questions it saw fit and to review the responses from the City;

3.1.2 its failure or omission to make investigation and verification of data shall, in no way, be cause for future claim of ignorance of such data or conditions nor shall such failure to investigate and verify be the basis for any claim whatsoever, monetary or otherwise;

3.1.3 it is solely responsible for resolving any issues resulting from its failure to conduct due diligence and it shall assume any and all resulting costs it incurs during the Project;

3.1.4 it was responsible for specifying any changes and disclosing any associated new costs prior to submittal of its bid. In the event Glen Terrace failed to disclose any such new cost prior to the submittal of its bid, Glen Terrace hereby covenants that it shall remain solely responsible for, and shall absorb, those non-disclosed costs;

3.1.5 it has familiarized itself with the nature and extent of the Contract Documents, Project, locality, and with all local conditions and Federal, State and local laws, ordinances, rules and regulations that in any manner may affect cost, progress or performance of the Project;

3.1.6 it has given the City written notice of any conflict, error or discrepancy that Glen Terrace discovered in the City's bid documents and other documents for **ITB Number 6110** (collectively "Bid Documents");

3.1.7. it agrees that the Bid Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Project;

3.1.8. it has studied carefully all reports of investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress or performance of the Scope of Services which were utilized in the preparation of the plans and specifications;

3.1.9 it has made or caused to be made examinations, investigations, measurements and tests and studies of any applicable reports and related data as it deems necessary for ensuring performance of the Scope of Services at the Contract Price within the Contract Time and in accordance with the other terms and conditions of the Contracts; and certifies no additional examinations, investigations, tests, reports or similar data are or will be required by Glen Terrace for such purposes; and

3.1.10 Glen Terrace shall not take advantage of any obvious error or apparent discrepancy in the Contract. Notice of any error or discrepancy discovered shall be given immediately in writing to the City, who shall make such corrections and interpretations as it may deem necessary for the completion of the Project in a satisfactory and acceptable manner.

3.2. Safety. Glen Terrace shall perform all work in a safe manner in full compliance with local, state and federal health and safety regulations. Glen Terrace shall immediately correct any dangerous condition caused by or resulting from its work. If it fails to correct, or to act diligently to correct, any condition which the City reasonably believes to be a hazard to persons or property, then immediately upon oral or written notice to any supervisory or similar personnel of Glen Terrace, City may, but shall not be required to, correct same at Glen Terrace's expense. City shall confirm in writing any oral notice given within five (5) business days thereafter.

3.3. Storage. In the event the Project site has insufficient, inadequate, and/or improper storage space, it shall be the responsibility of Glen Terrace to secure, provide and maintain at Glen Terrace's sole cost and expense **(i)** adequate off-site storage space for equipment, materials, incidentals, etc., and **(ii)** all associated delivery and transportation services. In either event, Glen Terrace shall assume full responsibility for equipment, materials, incidentals, etc. until both title and risk of loss pass to the City pursuant to Section 8 of this Contract.

3.4. Working Hours. To the extent Glen Terrace is required to be on City property to render the Glen Terrace's services hereunder, the Glen Terrace shall coordinate its schedule so that work on and at the Project site is performed during the hours of 7:00 a.m. and 6:00 p.m. Monday through Friday, unless more exactly specified elsewhere in this Contract or **Attachment A** or unless prior written permission is obtained from the City to

work during other times. Later weekday and weekend working hours can be accommodated by the City of Waterbury, School Inspector's Office, upon request by Glen Terrace, in order to meet the Contract Time specified in Paragraph 5 below. A complete work schedule shall be finalized with the School Inspector once work under this Contract commences. This provision shall not excuse Glen Terrace from timely performance under the Contract.

3.5. Cleaning Up. Glen Terrace shall at all times keep the Project site free from accumulation of waste materials or rubbish caused by Glen Terrace's employees or subcontractors, and at the completion of the work shall remove all rubbish from and about the Project and all tools, scaffolding and surplus materials and shall leave the Project site "broom clean" or its equivalent, unless more exactly specified. In case of dispute, the City may remove the rubbish and charge the cost to Glen Terrace.

3.6. Publicity. Glen Terrace agrees not to deliberately disclose the fact that the City has entered into or terminated this Contract or disclose any of the terms of the Contract or use the City's name in connection with any publicity, unless the City gives prior written consent to such use of the City's name in each instance.

3.7. Standard of Performance. All Glen Terrace's labor, materials, supplies, components, equipment, reports, plans, specifications, drawings, deliverables, incidentals, etc., required to be furnished or delivered under this Contract shall conform in all respects with the requirements set forth in this Contract and shall meet or exceed those standards generally recognized in Glen Terrace's craft and trade in the State of Connecticut. City specified manufacturer and/or brand name substitution desired by Glen Terrace shall be made only with the prior written consent of an authorized representative of the City's Using Agency.

> **3.7.1** In carrying out the Project, Glen Terrace must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor, nor with the normal routine of the institution or agency operating at the Project site.

3.8. Glen Terrace's Employees. Glen Terrace shall at all times enforce strict discipline and good order among its employees, and shall not employ on the work any unfit person or anyone not skilled in the work assigned. Glen Terrace shall not, without the prior written approval of the City's Using Agency, substitute, terminate, replace or otherwise remove any Glen Terrace employee expressly named, identified or required in this Contract.

3.9. Subsurface/Unknown Site Conditions. If Project site conditions are encountered which are **(i)** subsurface or otherwise concealed physical conditions or other conditions which differ materially from those indicated in the Contract Documents, or **(ii)** unknown conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent or common in construction activities of the character provided for in this Contract, then prompt notice by the observing party shall be given to the other party to this Contract before Project site conditions may be disturbed. Glen Terrace shall thereafter wait for written instructions from the City before proceeding with regard to such conditions.

3.10. Surveys. All surveys required under this Contract shall be performed by a State of Connecticut duly licensed land surveyor. Unless expressly stated to the contrary in Section 1 of this Contract and **Attachment A**, Glen Terrace shall perform all layout work, all field measurements and all construction staking required, necessary or prudent for the satisfactory prosecution of Glen Terrace's obligations under this Contract.

3.11. Permits and Licenses. Unless expressly stated to the contrary in Section 1 of this Contract and **Attachment A**, Glen Terrace shall secure and obtain all permits and all licenses required, or necessary, or prudent for the performance of Glen Terrace's obligations under this Contract, and for the City's occupancy, use, and operation of the Project.

3.12. Manufacturer's Directions. Where it is required in this Contract that materials, products, processes, equipment or the like be installed or applied in accord with manufacturer's directions, specifications or instructions, it shall be construed to mean that the said application or installation by Glen Terrace shall be in strict accord with printed instructions furnished by the manufacturer of the material concerned for use under conditions similar to those at the Project site. One (1) copy of such instructions shall be furnished to the City.

3.13. Review by the City. Glen Terrace shall permit the City and the City's duly authorized representatives and agents to review, at any time, all work performed under the terms of this Contract at any stage of the Project.

3.14. Records Maintenance. Glen Terrace shall maintain or cause to be maintained all records, books or other documents relative to charges, costs, expenses, fees, alleged breaches of the Contract, settlement of claims or any other matter pertaining to Glen Terrace's demand for payment.

4. Responsibilities of the City and City Reservation of Rights. Upon the City's receipt of Glen Terrace's written request for specific information, the City will provide Glen Terrace with existing documents, data and other materials the City agrees are necessary and appropriate to the services to be performed by Glen Terrace hereunder and the City will endeavor to secure, where feasible and where the City agrees it is necessary and appropriate, materials or information from other sources requested by Glen Terrace for the purpose of carrying out the services under this Contract.

4.1. The City may, in its sole discretion, designate person(s) to act as the City's Project Engineer(s) and/or Manager(s) and the City may, in its sole discretion, define such person(s) authority and responsibilities.

4.2. The City reserves the right to **(i)** perform work related or unrelated to the Project with the City's own forces adjoining, adjacent to, or in the vicinity of, the Project site and/or **(ii)** let separate contracts related or unrelated to the Project for work and services adjoining, adjacent to, or in the vicinity of, the Project site. In such event, Glen Terrace shall afford all such parties reasonable opportunity for storage of materials and equipment and for the uninterrupted provision and delivery of such parties' work and/or services. Glen Terrace shall cooperate with such parties and in the case of a dispute, the decision of the City shall be complied with by all.

5. Contract Time. Glen Terrace shall commence all work and services under this Contract within one week of Mayor's execution of this Contract and Glen Terrace shall Substantially Complete all work and services required under this Contract on August 15, 2018 and shall reach Final Completion on August 24, 2018 ("Contract Time").

5.1. Time is and shall be of the essence for the Project its Substantial Completion Date and the Final Completion Date for the Project. Glen Terrace further agrees that the Project shall be prosecuted regularly, diligently and uninterruptedly and at such rate of progress as will insure full completion thereof within the Contract Time stated above. It is expressly understood and agreed, by and between Glen Terrace and City, that the Contract Time is reasonable for the completion of the Project.

5.2. Within one (1) week of the Mayor's execution of this Contract and prior to the commencement of any work on the Project site, Glen Terrace shall submit for the City's written approval a construction progress schedule. On a monthly basis, Glen Terrace shall deliver to the City a written status report setting forth an analysis and critique of Glen Terrace's compliance with said schedule.

5.3. Glen Terrace shall pay to the City the sum of **One Thousand Dollars ($1,000) per calendar day** for each and every calendar day for which Glen Terrace is in default in completing the work beyond the time for Substantial Completion and/or Final Completion set forth in this Article 5. The preceding sum is hereby agreed upon not as a penalty, but as liquidated damages that the City shall suffer due to such default. The City shall have the right to deduct the amount of any such damages from any monies due Glen Terrace under this Contract.

6. Compensation. The City shall compensate Glen Terrace for satisfactory provision of all of the goods and services set forth in this Contract as follows in this Section 6. No claims for additional compensation will be considered for conditions made known to Glen Terrace prior to bidding. No claims for additional compensation will be considered on account of failure of Glen Terrace to completely inform itself as required herein above.

6.1. Fee Schedule. Subject to retainage, limitations, etc. set forth below in this Section 6, the fee payable to Glen Terrace shall not exceed **SIX HUNDRED EIGHTEEN THOUSAND ONE HUNDRED THIRTY-FIVE DOLLARS ($618, 135.00)** (hereafter referred to as "Total Compensation") with the basis for payment being Glen Terrace's Bid set forth in **Attachment A's** "Glen Terrace's Bid, dated May 21, 2018", which is summarized below:

i. A base payment in an amount not to exceed
Five Hundred Eighty-Eight Thousand Seven Hundred
Dollars.....$588,700.00
Which is further broken down as follows:

a. Walsh Elementary School, in an amount not to exceed
Two Hundred Fifty-Six Thousand Seven Hundred
Dollars.....$256,700.00

b. Chase Elementary School, in an amount not to exceed
One Hundred Thirty-Nine Thousand Nine Hundred

Dollars.....$139,900.00

c. Generali Elementary School, in an amount not to exceed One Hundred Ninety-Two Thousand One Hundred Dollars.....$192,100.00

ii. *Contingencies in an amount not to exceed Twenty-Nine Thousand Four Hundred Thirty-Five Dollars..$29,435.00

iii. Total Compensation in an amount not to exceed Six Hundred Eighteen Thousand One Hundred Thirty-Five Dollars.....$618,135.00

* **Contingency.** At sole discretion and control of the City, the Contingency amount as set forth in Section 6.1 of this Contract shall be utilized for the payment to Glen Terrace for additional work not covered by this contract and requested by the City in writing to be performed by the Glen Terrace.

6.2. Retainage. At the City's sole discretion, it hereby reserves the right to withhold as retainage Five (5%) percent of any payment (or monetary sum otherwise required by law) owed to Glen Terrace to be withheld from payments to Glen Terrace otherwise payable to Glen Terrace until such time as Glen Terrace's work and services to be provided under this Contact are fully completed and accepted in writing by the City. The retainage does not does not include additional sums that the City may withhold due to Glen Terrace's failure to comply with provisions of this Contract.

6.3. Limitation of Payment. Compensation to Glen Terrace is limited to those fees set forth in Section 6.1. of this Contract and is further limited to work **(i)** performed in fact, **(ii)** conforming with this Contract, and **(iii)** accepted in writing by a duly authorized City employee. Such compensation shall be paid by the City upon its review and approval of Glen Terrace's invoices for payment and review of Glen Terrace's work.

6.3.1 Funding. In the event this Contract is funded, in whole or in part, by Federal and/or State monies, grants, loans, etc., all City payment(s) shall fully comply with all relevant Federal and State statutes and regulations. In the event this Contract is 100% funded by Federal and/or State monies, grants, loans, etc., the aggregate sum of all City payments shall not exceed the aggregate sum of such funding.

6.3.2 Glen Terrace and its affiliates are hereby provided with notice that the City reserves the right, in the City's sole discretion, to offset, withhold, or otherwise reduce City payment(s) to Glen Terrace, in an amount equaling the sum or sums of money Glen Terrace and/or its affiliates is/are, or become delinquent or in arrears on, regarding the Vendor's and/or its affiliates real and personal property taxes and other payment obligations to the City.

6.4. Bid Costs. All costs of Glen Terrace in preparing its bid for **ITB Numbe 6110** shall be solely borne by Glen Terrace and are not included in the compensation to be paid by the City to Glen Terrace under this Contract or any other agreement.

6.5. Payment for Services, Materials, Appliances, Employees. Glen Terrace shall be responsible to the City for the suitability of services, materials and equipment furnished to comply fully with the requirements set forth in this Contract. Glen Terrace shall promptly pay all employees as their pay falls due, shall pay promptly as they fall due all bills for subcontractors, materials, supplies and services going into the work, and all bills for insurance, bonds, Worker's Compensation coverage, Federal and State Unemployment Compensation, and Social Security charges applicable to this Project. Before final City payment is made, Glen Terrace shall furnish to the City a sworn, notarized, affidavit stating that all of the foregoing payment obligations have been fully completed.

6.6. Liens. Neither the City's final payment nor any part of the retained percentage, if any, shall become due until Glen Terrace, if required by the City, shall deliver to the City a complete release of all liens arising out of this Contract, or receipts in full in lieu thereof, and, if required, in either case, an affidavit that so far as Glen Terrace has knowledge or information, the releases and receipts include all the labor and material for which a lien could be filed; but Glen Terrace may, if any subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the City, to indemnify it against any lien. If any lien remains unsatisfied after all payments are made, Glen Terrace shall refund to the City all moneys that the City may be compelled to pay in discharging such a lien, including all costs and a reasonable attorney's fee.

6.7. Glen Terrace's Certificate of Completion. Upon Glen Terrace's **(i)** completion of all Project milestones, and **(ii)** Substantial Completion of the Project, and **(iii)** Final Completion of the Project, Glen Terrace shall, in each instance, file with the City a written, notarized affidavit setting forth the amount of Project work performed. The City reserves the right to verify or challenge by any reasonable means the accuracy of said affidavit.

6.8. Final Payment. All prior estimates and City payments, including those relating to extra or additional work, retainage(s), and holdback(s), shall be subject to correction by this final payment which is throughout this Contract called "Final Payment". No payment, final or partial, shall act as a release to Glen Terrace or its surety from any Contractor obligation(s) under this Contract.

6.9. Clean Water Fund Project Requirements. In the event this Contract is funded in whole or in part, is reliant upon, or falls within the jurisdiction of the Clean Water Fund and its statutes, regulations and rules, Glen Terrace shall:

6.9.1 Submit Applications for Payment in accordance with the following:

The City must receive Glen Terrace's Application for Payment by the City's or its designee's, review and recommendation for payment, by the fifteenth calendar day of the month to receive payment within the next 50 days. If not received by the fifteenth calendar day of the month, payment cannot be made until 50 days after the fifteenth calendar day of the subsequent month. Glen Terrace shall provide at the City's request, reasonable documentation to substantiate Glen Terrace's Application for Payment.

6.9.2 Progress and Final Payments

The City will make progress payments on account of the Contract Price on the basis of Glen Terrace's Applications for Payment, monthly during construction as provided below. All progress payments will be on the basis of the progress of the Scope of Services as determined by the City, according to the schedule of values provided for in the Contract Documents, and approved by the City. Prior to Substantial Completion, progress payments will be limited to an amount equal to 95 percent of the value of the Scope of Services completed. Upon Substantial Completion, the City will pay the amount as specified in the Contract Documents.

7. Warranty of Glen Terrace. Glen Terrace warrants to the City that all materials, supplies, components, equipment, etc. furnished under this Contract shall be new and of good quality, except as otherwise expressly stated and permitted by the City elsewhere in this Contract. Glen Terrace warrants that none of its work shall be defective. Glen Terrace shall be liable to repair and install and/or replace without charge any service, component, equipment or part thereof which is defective or does not conform with this Contract within the greater of **(i) 365 calendar** days after the City delivers its written notice of its acceptance of the Project and statement therein establishing the final completion date, or **(ii)** that time period or date expressly stated elsewhere in this Contract or **Attachment A**.

7.1. Glen Terrace further warrants that all materials, supplies, services, components, equipment, reports, plans, drawings, deliverables, incidentals, etc., shall be free from any and all defects caused by faulty design, faulty material or poor workmanship. Glen Terrace shall supply to the City copies of any written manufacturer's warranties and guarantees. Glen Terrace's foregoing warranty obligations are in addition to, and not a limitation of, all manufacturer's warranties and guarantees, and any other remedy stated in this contract or otherwise available to the City under applicable law.

8. Passing of Title and Risk of Loss.

8.1. City beneficial use of Project equipment, materials, site-work, etc. prior to Glen Terrace's final completion of the Project or prior to the City's final payment for the Project shall neither act to vest title in the City nor act to transfer risk of loss from Glen Terrace to the City. Said title and risk shall pass to the City upon the City's final payment for the Project.

8.2. Glen Terrace and its insurer shall assume the risks of loss or damage to the equipment up to and including the date title passes, except that City shall be responsible for loss or damage caused by City's gross negligence.

8.3. After Project equipment, materials, etc. are delivered to the Project work-site and become operable or functional, Glen Terrace shall not thereafter remove any such equipment, materials, etc. from the Project work-site without securing the prior written consent of an authorized City Using Agency employee.

9. Indemnification.

9.1. Glen Terrace shall indemnify, defend, and hold harmless the City, the City's agents, officials and employees from and against all claims, suits, damages, losses,

judgments, costs and expenses including attorney's fees arising out of or resulting from the performance of the services, provided that any such claims, suits, damages, losses, judgments, costs or expenses **(i)** are attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the services itself) including the loss of use resulting therefrom, and **(ii)** are caused in whole or in part by any willful or negligent act or omission of Glen Terrace, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

9.2. In the event this Contract and/or Glen Terrace's, or its subcontractor, work and services provisioned hereunder is/are subject to the provisions of any Federal or State statute or regulations, or the City Charter or City Ordinance, Glen Terrace shall indemnify, defend and hold harmless the City from any fine, penalty or other amounts imposed on the City under said statutes, regulations, Charter or Ordinances, if caused by Glen Terrace, or its subcontractor, omission or commission.

9.3. In any and all claims against the City or any of its boards, agents, employees or officers by any employee of Glen Terrace, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraphs 9.1 and 9.2, above, shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for Glen Terrace or any subcontractor under Worker's Compensation Acts, disability benefit acts or other employee benefit acts.

9.4. Glen Terrace expressly understands and agrees that any performance bond or insurance protection required by this Contract, or otherwise provided by Glen Terrace, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the City and the City's boards, agents, employees or officers as provided herein.

9.5. Royalties and Patents. Glen Terrace shall, for all time, secure to the City the free and undisputed right to the use of any and all patented articles and methods used in the work and shall defend at Glen Terrace's own expense any and all suits for infringement or alleged infringement of such patents, and in the event of adverse award under patent suits, Glen Terrace shall pay such awards and hold the City harmless in connection with any patent suits that may arise as a result of installations made by Glen Terrace and as to any award made thereunder.

10. Contract Bonds. Glen Terrace shall furnish to the City, prior to the execution of this Contract by the City, both a performance bond and a payment bond, each bond written for a penal sum equaling the Section 6 "Total Compensation" amount in a form and with a surety acceptable to the City. The bonds shall continue in effect for the greater of **(i)** the warranty period set forth in Section 7 of this Contract, or **(ii)** 365 calendar days after the Final Completion Date referenced elsewhere in this Contract.

11. Glen Terrace's Insurance.

11.1. Glen Terrace shall not commence work under this Contract until all insurance required under this Section 11 has been obtained by Glen Terrace and such insurance has been approved by the City. Glen Terrace shall not allow any subcontractor to commence

work on any subcontract until all insurance required of any such subcontractor has been so obtained and approved by the City. Insurance shall be provided by insurers, satisfactory to the City and authorized to do business in the State of Connecticut, an "A-" Best's Rating and at least a Class V3 or better financial size category as shown in the most current A.M. Best Company ratings.

11.2. At no additional cost to the City, Glen Terrace shall purchase and maintain the insurance coverages set forth below which shall protect the City from claims which may arise out of or result from Glen Terrace's obligation under this Contract, whether such obligations are Glen Terrace's or subcontractor or person or entity directly or indirectly employed by said Glen Terrace or subcontractor, or by any person or entity for whose acts said Glen Terrace or subcontractor may be liable.

11.3. Each insurance policy shall state that the insurance company shall agree to investigate and defend the insured against all claims for damages, even if groundless. If any insurance required herein is to be issued or renewed on a claims made form as opposed to an occurrence form, the retroactive date for coverage shall be no later than the commencement date of this Contract and shall provide that in the event of cancellation or non-renewal, the discovery period for insurance claims ("Tail Coverage") shall be available for at least 60 months.

11.4. The following policies with stated limits shall be maintained, in full force and effect, at all times during which the services are to be performed by Glen Terrace:

11.4.1 General Liability Insurance: $1,000,000.00 per occurrence, **$2,000,000.00** aggregate and **$2,000,000.00** Products and completed operations aggregate
Providing coverage to protect the City for all damages arising out of bodily injuries, sickness to or death of all persons in any one accident or occurrence and for all damages arising out of destruction of property in any one accident or occurrence.

11.4.2 Automobile Liability Insurance: **$1,000,000.00** combined single limit (CSL)
Providing coverage to protect the City with respect to claims for damage for bodily injury and or property damage arising out of ownership, maintenance, operation, use or loading and unloading of any auto including all owned and hired autos.

11.4.3 Workers' Compensation: Statutory Limits within the State of Connecticut: Employers' Liability:
EL Each Accident **$500,000.00**
EL Disease Each Employee **$500,000.00**
EL Disease Policy Limit **$500,000.00**

Glen Terrace shall comply with all State of Connecticut statutes as it relates to workers' compensation.

11.4.4 Excess/Umbrella Liability Insurance: Excess or Umbrella insurance coverage that follows form or sits over General Liability, Automobile Liability and

Workers Compensation insurances**. $1,000,000.00** each occurrence and **$1,000,000.00** Aggregate.

11.4.5 Builder's Risk Insurance: coverage equaling – NA

11.4.6 Glen Terraces Pollution Liability Insurance: - NA

11.5. Failure to Maintain Insurance: In the event Glen Terrace fails to maintain the minimum required coverage as set forth herein, the City may at its option purchase same, and offset Glen Terrace's invoices for the cost of said insurance.

11.6. Cancellation: The City of Waterbury shall receive written notice of cancellation from Glen Terrace at least thirty (30) calendar days prior to the date of actual cancellation, regardless of the reason for such cancellation.

11.7. Certificates of Insurance: Glen Terrace's General, Automobile, and Excess/Umbrella Liability Insurance policies shall be endorsed to add the City and its Board of Education as additional insureds and provide waiver of subrogation on all policies except Workers Compensation. The insurance afforded the additional insured shall be primary and non-contributory insurance and the coverage and limits provided under Glen Terrace's policies shall not be reduced or prorated by the existence of any other insurance applicable to any loss the additional insured may have suffered. Prior to the execution of this Contract by the City, Glen Terrace shall furnish to the City, subject to City approval, certificate(s) of insurance and Additional Insured Endorsement and Waiver of Subrogation Endorsement verifying the above coverages, including the naming of the City of Waterbury, as follows: **"The City of Waterbury and its Board of Education are listed as Additional Insureds on a primary and non-contributory basis on all policies except Workers Compensation. All policies shall include a Waiver of Subrogation."** The City's Invitation to Bid Number must be shown on the certificate of insurance to assure correct filing. Glen Terrace must supply replacement/renewal certificates at least 30 days prior to the expiration of the policy(ies). Said certificates shall contain a provision that coverage afforded under the policies shall not be cancelled or reduced for any reasons unless notice of than thirty (30) calendar days has been mailed to the City's Using Agency and a copy to the City's Office of Corporation Counsel, 235 Grand Street, Waterbury, CT 06702.

11.8. No later than thirty (30) calendar days after Glen Terrace receipt, Glen Terrace shall deliver to the City a copy of Glen Terrace's insurance policies and endorsements and riders.

12. Conformance with Federal, State and Other Jurisdictional Requirements. By executing this Contract, Glen Terrace represents and warrants that, at all pertinent and relevant times to the Contract, it has been, is and will continue to be in full compliance with all applicable statutes, acts, ordinances, guidelines, resolutions, orders, judgments, decrees, injunctions, rules, and regulations of all government authorities applicable to performance by Glen Terrace of services hereunder, including those having jurisdiction over its registration and licensing to perform services hereunder; including, but not limited to, the following: EQUAL EMPLOYMENT OPPORTUNUTY; COPELAND ANTI-KICKBACK ACT, as supplemented in the Department of Labor Regulations (29 CFR, Part 3); DAVIS BACON ACT as supplemented

by Department of Labor Regulations (29 CFR Part 5); Section 103 and 107 of the Contract Work Hours and Safety Standards Act, as supplemented by the Department of Labor Regulations (29 CFR Part 5); the HOUSING and COMMUNITY DEVELOPMENT ACT of 1974, as amended; TITLE 31 and Section 12-430(7) of the State of Connecticut General Statutes. All applicable sections of the City Charter and Code of Ordinances are incorporated by reference made a part hereof.

12.1. Taxes-Federal, State and Local. The City is exempt from Federal Excise and Transportation, State and Local Sales and Use Taxes, including without limitation, taxes that would otherwise be imposed upon Glen Terrace for transactions required or necessitated hereunder between it and its subcontractors, suppliers, etc. Glen Terrace remains liable, however, for any applicable tax obligations it incurs. Moreover, Glen Terrace represents that the bid and pricing contained in this Contract do not include the amount payable for said taxes.

12.2. Labor and Wages-Federal and State. Glen Terrace and its subcontractors shall conform to Federal and State of Connecticut labor laws, and all other laws, ordinances, and legal requirements affecting the work in Connecticut.

12.2.1 Glen Terrace is aware of, and shall comply with, the provisions of Title 31, §53 of the Connecticut General Statutes, latest revision (the "Act"), concerning the payment of minimum wages for work on public facilities. The provisions of the Act are hereby incorporated by reference and made a part of this Contract. The Act provides that the Connecticut prevailing wage law applies to certain remodeling, refurbishing, alteration, repair and new construction. The wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker on the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in Conn.Gen.Statute 31-53(i), shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day.

12.2.2 Glen Terrace is aware of, and shall comply with, the provisions of both the Federal Davis-Bacon Act and the Federal American Recovery and Reinvestment Act of 2009, the provisions of both acts hereby incorporated by reference and made a part of this Contract. The Federal Davis-Bacon Act provides that Federal wage rate laws apply to certain federally funded contracts. The American Recovery and Reinvestment Act ("ARRA") provides that Federal wage rate laws apply to all ARRA funded contracts regardless of the contract's dollar value.

12.3. Compliance with Chapters 34, 38, and 39 of the Code of Ordinances of the City. By executing this Contract, Glen Terrace represents and warrants that, at all pertinent and relevant times to the Contract, it has been, is and will continue to be in full compliance with the provisions of Chapters 34, 38, and 39 of the Code of Ordinances of

the City and well as any other relevant provisions of the Charter and the Code of Ordinances.

12.4. Compliance with CONN. GEN. STAT. § 4a-60g, as amended by June 2015 Special Session Public Act 15-5.

12.4.1 Definitions – For purposes of this paragraph:

i. "Small contractor" means any contractor, subcontractor, manufacturer, Service Company or nonprofit corporation (A) that maintains its principal place of business in the state, (B) that had gross revenues not exceeding fifteen million dollars in the most recently completed fiscal year prior to such application, and (C) that is independent. "Small contractor" does not include any person who is affiliated with another person if both persons considered together have a gross revenue exceeding fifteen million dollars.

ii. "Minority business enterprise" means any small contractor (A) fifty-one per cent or more of the capital stock, if any, or assets of which are owned by a person or persons who (i) exercise operational authority over the daily affairs of the enterprise, (ii) have the power to direct the management and policies and receive the beneficial interest of the enterprise, (iii) possess managerial and technical competence and experience directly related to the principal business activities of the enterprise, and (iv) are members of a minority, as such term is defined in subsection (a) of section 32-9n, or are individuals with a disability, or (B) which is a nonprofit corporation in which fifty-one per cent or more of the persons who (i) exercise operational authority over the enterprise, (ii) possess managerial and technical competence and experience directly related to the principal business activities of the enterprise, (iii) have the power to direct the management and policies of the enterprise, and (iv) are members of a minority, as defined in this subsection, or are individuals with a disability.

iii. "Municipal public works contract" means that portion of an agreement entered into on or after October 1, 2015, between any individual, firm or corporation and a municipality for the construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, which is financed in whole or in part by the state, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees but excluding any project of an alliance district, as defined in section 10-262u, as amended by this act, financed by state funding in an amount equal to fifty thousand dollars or less.

12.4.2 Glen Terrace and subcontractor shall comply with the specific requirements of the State of Connecticut Set Aside Program, CONN. GEN. STAT. § 4a-60g, as amended by June 2015 Special Session Public Act 15-5, if the municipal public works contact awarded to the Contactor is funded in whole or in part by state funds.

12.4.3 Glen Terrace shall be subject to the following set-aside requirements if the municipal public works contact, is funded in whole or in part by the State of Connecticut, and is in excess of FIFTY THOUSAND DOLLARS ($50,000.00), for the construction, rehabilitation, conversion, extension, demolition, or repairing of a public building or

highway, or other changes or improvements in real property.

12.4.4 Set-Aside requirements – Any contractor awarded a municipal public works contract, on the basis of competitive bidding procedures, shall comply with the following Set –Aside requirements:

i. set aside at least twenty-five per cent (25%) of the total value of the state's financial assistance for such contract for award to subcontractors who are small contractors, and

ii. of that portion to be set aside in accordance with Subparagraph i. of this subdivision, reserve a portion equivalent to twenty-five per cent (25%) of the total value of the contract or portion thereof to be set aside for awards to subcontractors who are minority business enterprises.

12.4.5 Failure of Glen Terrace or subcontractor to comply with the State of Connecticut Set-Aside requirements shall be a material breach of this Contract.

13. Discriminatory Practices. In performing this Contract, Glen Terrace shall not discriminate against any employee or applicant for employment, with respect to his or her hire, tenure, terms, conditions or privileges of employment, or any matter directly or indirectly related to employment, because of race, color, sex, age, religious creed, disability, national origin or ancestry, marital status, family status, prior psychiatric treatment, health care, military status or source of income or because of a handicap that is unrelated to the employee's or the applicant's ability to perform the duties of a particular job or position. Subcontracts with each subcontractor shall contain a provision requiring non-discrimination in employment as herein specified. This covenant is required pursuant to §93.04 of the Code of Ordinances of the City and any breach thereof may be regarded as a material breach of this Contract. Said provisions with subcontractors shall require conformity and compliance with all local, state and federal laws, rules and regulations and Executive orders pertaining to discrimination and equal opportunity requirements.

13.1. Discrimination Because of Certain Labor Matters. No person employed on the work covered by this Contract shall be discharged or in any way discriminated against because such person has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or related to the labor standards applicable hereunder to its employer.

13.2. Equal Opportunity. In its execution of the performance of this Contract, Glen Terrace shall not discriminate and shall comply with applicable laws prohibiting discrimination on the grounds of race, color, religion, sex, national origin or citizenship status, age or handicap. Glen Terrace agrees to comply with all local, state and federal laws, rules and regulations and Executive orders pertaining to discrimination and equal opportunity requirements, and will require the same of all subcontractors

13.3. Affirmative Action.

13.3.1. Pursuant to CONN. GEN. STAT. § 4a-60, as amended by June 2015 Special Session Public Act 15-5, the following are required for every Municipal Public Works Contract:

(a) Every contract to which an awarding agency is a party, every quasi-public agency project contract and every municipal public works contract shall contain the following provisions:

(1) Contractor agrees and warrants that in the performance of the contract such contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the state of Connecticut; and Contractor further agrees to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved;

(2) Contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of Contractor, to state that it is an "affirmative action-equal opportunity employer" in accordance with regulations adopted by the Commission on Human Rights and Opportunities;

(3) Contractor agrees to provide each labor union or representative of workers with which such Contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such Contractor has a contract or understanding, a notice to be provided by the Commission on Human Rights and Opportunities advising the labor union or workers' representative of Contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment;

(4) Contractor agrees to comply with each provision of this section and sections 46a-68e and 46a-68f and with each regulation or relevant order issued by said commission pursuant to sections 46a-56, as amended by this act, 46a-68e, 46a-68f and 46a-86; and

(5) Contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of Contractor as relate to the provisions of this section and section 46a-56, as amended by this act.

(b) If the contract is a public works contract, municipal public works contract or contract for a quasi-public agency project, Contractor agrees and warrants that he or she will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works or quasi-public agency project.

13.3.2. Pursuant to CONN. GEN. STAT. § 4a-60a, as amended by June 2015 Special Session Public Act 15-5, the following are required for every Municipal Public Works Contract:

(a) Every contract to which an awarding agency is a party, every contract for a quasi-public agency project and every municipal public works contract shall contain the following provisions:

(1) Contractor agrees and warrants that in the performance of the contract such Contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or of the state of Connecticut, and that employees are treated when employed without regard to their sexual orientation;

(2) Contractor agrees to provide each labor union or representative of workers with which such Contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such Contractor has a contract or understanding, a notice to be provided by the Commission on Human Rights and Opportunities advising the labor union or workers' representative of Contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment;

(3) Contractor agrees to comply with each provision of this section and with each regulation or relevant order issued by said commission pursuant to section 46a-56; and

(4) Contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of Contractor which relate to the provisions of this section and section 46a-56.

14. Good Jobs Ordinance

14.1. Conformance With An Ordinance Concerning The Hiring Of Waterbury Residents On Certain Publicly-Funded Construction Projects.

14.1.1 Contractors and its Subcontractors shall comply with the specific requirements of "An Ordinance Concerning the Hiring of Waterbury Residents on Certain Publicly-Funded Construction Projects" (the "Good Jobs Ordinance"), as may be amended from time to time and as set forth in Chapter 34 of the Code of Ordinances of the City. While the principal provisions of the ordinance are summarized as set forth in paragraphs C-H below, Contractor does hereby acknowledge that it has reviewed a copy of the Good Jobs Ordinance and that it has read the Ordinance and that Contractor is familiar with the obligations imposed on Contractor and each Subcontractor by the Good Jobs Ordinance.

14.1.2 Failure of Contractor or its Subcontractors to comply with the Good Jobs Ordinance shall be a material breach of this Agreement.

14.1.3 This paragraph shall apply to a Covered Project, as that term is defined in the Good Jobs Ordinance, in the City with a value of $500,000.00 or greater and only to the extent permitted by federal and state law.

14.1.4 Definitions. For purposes of this paragraph:

i. "Administrator" shall be defined as it is in the Good Jobs Ordinance.

ii. "Apprentice" shall be defined as it is in the Good Jobs Ordinance.

iii. "Basic Skilled Worker" shall be defined as it is in the Good Jobs Ordinance.

iv. "Contractor" shall be defined as it is in the Good Jobs Ordinance.

v. "Covered Project" shall be defined as it is in the Good Jobs Ordinance.

vi. "Hiring Goal" shall be defined as it is in the Good Jobs Ordinance.

vii. "Resident" shall be defined as it is in the Good Jobs Ordinance.

viii. "Subcontractor" shall be defined as it is in the Good Jobs Ordinance and shall include Contractor's direct subcontractor providing construction work and all lower tiered (level) providers of construction work.

14.1.5 Hiring Goals. If this Agreement requires Contractor to perform work on a Covered Project, Contractor and each Subcontractor shall have as its hiring goals:

i. at least thirty percent (30%) of its total worker hours performed by City Residents, and

ii. at least twenty-five percent (25%) of construction trade jobs shall go to Apprentices and/or Basic Skilled Workers, and

iii. at least seventy percent (70%) of all "new hires" (as that term is defined in the Good Jobs Ordinance) shall be "economically disadvantaged" individuals (as that term is defined in the Good Jobs Ordinance), and

iv. a minimum of five percent (5%) of the construction workforce labor hours will be local resident, minority artisans, and

v. a minimum of five percent (5%) of the construction workforce labor hours will be women, and

vi. a minimum of ten percent (10%) of the total work hours shall be allocated for minorities, or

vii. as may otherwise be required by any superseding Federal or State employment discrimination prohibition laws.

14.1.6 Good Faith Efforts. Contractor and each Subcontractor shall engage in Good Faith Efforts to comply with the Hiring Goals. For the purposes of this paragraph, the term "Good Faith Efforts" shall have the same meaning as it does in the Good Jobs Ordinance.

Contractor and each Subcontractor shall individually implement Good Faith efforts to satisfy the Hiring Goals.

14.1.7 Action Plan and Pre-Construction Meeting. Not later than fourteen (14) business days prior to the scheduled commencement date for construction, Contractor shall submit a written plan-of-action to the City and to the Administrator of the Good Jobs Ordinance defining how Contractor, and each Subcontractor, shall implement Good Faith Efforts to fulfill the Hiring Goals. Each plan-of-action shall include the anticipated number of job positions required for the Work. Not later than five (5) business day prior to the commencement date of construction, Contractor must attend a mandatory "pre-construction" meeting with the City to review all plans-of-action and other relevant materials. No construction work shall proceed absent this pre-construction meeting.

14.1.8 Other Contractor Obligations. In addition to the foregoing, Contractor shall ensure that all Subcontractor contracts and agreements expressly set forth and state as binding obligations therein, subject to appropriate party name change, the above Hiring Goals and Good Faith Efforts. Contractor shall be accountable for, and liable to the City for, Contractor and each Subcontractor compliance with Hiring Goals and Good Faith efforts.

I. Contractor shall meet with the Administrator no less than four (4) weeks prior to the commencement of construction on a Covered Project and provide the Administrator with the number of job positions to be created by the project by trade and the qualifications by job tile.

ii. Contractor shall be required to produce Contractor and Subcontractor documentation that may be required under the provisions of the Good Jobs Ordinance or that the City or the Administrator reasonably believes will assist the City or the Administrator with their evaluation of Hiring Goals and Good Faith Efforts.

iii. Contractor shall deliver weekly certified payroll records to the City within five (5) working days of the end of each payroll period. Moreover, Contractor shall require each Subcontractor to create weekly certified payroll records.

iv. Contractor's and each Subcontractor's payroll records shall include the person-hours, the residential address, race, gender, hiring date, and apprentice (job) classification of all personnel employed under this Agreement and all Contracts and Sub-Contracts thereunder. Contractor and each Subcontractor shall mark their respective final payroll period records as being final and be signed by an authorized officer or employee.

14.2 Liquidated Damages Applicable To Section 14.1

14.2.1 If the City finds that Contractor, or a Subcontractor, has failed to achieve Hiring Goals during any five (5) day work period (Monday through Friday), the City shall:

i. issue a written notice to Contractor specifying the matters constituting such failure and the time period within which Good Faith Efforts documentation must be delivered to the City for its evaluation.

ii. if the Good Faith documentation is not provided or, if provided, it fails to demonstrate compliance with Good Faith Efforts, Contractor shall, for each failure by Contractor or a Subcontractor to achieve the Hiring Goals during a full five day work period, pay to the City one thousand dollars ($1,000.00) as liquidated damages.

14.2.2 If the City finds that Contractor, or a Subcontractor, has failed to deliver weekly certified payroll records to the City within five (5) working days of the end of each payroll period Contractor shall, as liquidated damages pay one thousand dollars ($1,000.00) to the City for each week of ongoing violation.

14.2.3 The City shall provide Contractor with an invoice identifying all sums due the City, as liquidated damages, as a result of Contractor or a Subcontractor's failure to comply with the Good Jobs Ordinance as set forth above.

14.2.4 No portion of any invoice submitted by a Contractor that is subject to liquidated damages shall be paid by the City until such time as all liquidated damages relating to that invoice have been paid to the City.

14.2.5 The foregoing liquidated damages provisions shall be expressly set forth, damages subject to appropriate party name adjustments, as material provisions in all Contracts that Contractor has with Subcontractors and Contractor is obligated hereunder to enforce compliance in such Contracts with Subcontractors.

14.2.6 Any payment of liquidated damages hereunder shall not preclude a later claim, nor any later finding of a breach, or any payment of additional damages related to such later claim.

15. Housing and Urban Development Section 3 Clause. In the event this Contract is funded, in whole or in part, through Housing and Urban Development assistance, 24 C.F.R. §135.38 may apply and Glen Terrace shall then be required to comply with the following (referred to as the "Section 3 clause"):

15.1. The work to be performed under this Contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. § 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted Projects covered by Section 3, shall, to the greatest extent feasible, be directed to low and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

15.2. The parties to this Contract agree to comply with HUD's regulations in 24 C.F.R. part 135, which implement Section 3. As evidenced by their execution of this Contract, the parties to this Contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.

15.3. Glen Terrace agrees to send to each labor organization or representative of workers with which Glen Terrace has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of Glen Terrace's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

15.4. Glen Terrace agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 C.F.R. part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 C.F.R. part 135. Glen Terrace will not subcontract with any subcontractor where Glen Terrace has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 C.F.R. part 135.

15.5. Glen Terrace will certify that any vacant employment positions, including training positions, that are filled **(i)** after Glen Terrace is selected but before the Contract is executed, and **(ii)** with persons other than those to whom the regulations of 24 C.F.R. part 135 require employment opportunities to be directed, were not filled to circumvent Contractor's obligations under 24 C.F.R. part 135.

15.6. Noncompliance with HUD's regulations in 24 C.F.R. part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

15.7. With respect to work performed in connection with Section 3 covered Indian housing assistance, section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. § 450e) also applies to the work to be performed under this Contract. Section 7(b) requires that to the greatest extent feasible **(i)** preference and opportunities for training and employment shall be given to Indians, and **(ii)** preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this Contract that are subject to the provisions of Section 3 and section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with section 7(b).

16. Termination.

16.1. Termination of Contract for Cause. If, through any cause, Glen Terrace shall fail to fulfill in a timely and proper manner its obligations under this Contract, or if Glen

Terrace shall violate any of the covenants, agreements, or stipulations of this Contract, the City shall thereupon have the right to terminate this Contract by either **(i)** giving written notice to Glen Terrace of a date certain by which Contractor shall, to the written satisfaction of the City, cure after which and without further action by any party, such termination shall automatically become effective and binding, or **(ii)** giving written notice to Glen Terrace specifying the effective date of such termination at least five (5) business days before the effective date of such termination.

16.1.1 In the event of a termination, all finished or unfinished documents, data, studies, reports, plans, specifications, drawings, supplies, services, etc. prepared by Glen Terrace under this Contract shall, at the option of the City, become the City's property, and Glen Terrace shall be entitled to receive just and equitable compensation for any satisfactory work completed for such.

16.1.2 Notwithstanding the above, Glen Terrace shall not be relieved of liability to the City for damages sustained by the City by virtue of any breach of this Contract by Glen Terrace, and the City may withhold any payments to Glen Terrace for the purpose of setoff until such time as the exact amount of damages due the City from Glen Terrace is determined.

16.2. Termination for Convenience of the City. The City may terminate this Contract at any time for the convenience of the City, by a notice in writing from the City to Glen Terrace. If this Contract is terminated by the City as provided herein, Glen Terrace will be paid an amount which bears the same ratio to the total compensation as the services actually performed bear to the total services of Glen Terrace covered by this Contract, less payments of compensation previously made.

16.3. Termination for Non-Appropriation or Lack of Funding. Glen Terrace acknowledges that the City is a municipal corporation and that this Contract is subject to the appropriation and disbursement of funds by the City sufficient for this Contract for each budget year in which this Contract is in effect. Glen Terrace therefore agrees that the City shall have the right to terminate this Contract in whole or in part without penalty to the City in the event that sufficient funds to provide for City payment(s) under this Contract is not appropriated, not authorized, or not made available, or such funding has been reduced. In the event this Contract is subject, in whole or in part, to the appropriation and disbursement of Federal and/or State funds and those Federal and/or State funds are not appropriated or are not disbursed to the City, Glen Terrace hereby agrees that the City shall have the right to terminate this Contract in whole or in part without penalty to the City.

16.3.1 Effects of Non-Appropriation. If funds to enable the City to effect continued payment under this Contract are not appropriated, authorized or otherwise made available by law, the City shall have the right to terminate this Contract without penalty at the end of the last period for which funds have been appropriated, authorized or otherwise made available by law by giving written notice of termination to Glen Terrace.

16.3.2 Effects of Reduced Levels of Funding. If funding is reduced by law, or funds to pay Glen Terrace for the agreed to level of the products, services and

functions to be provided by Glen Terrace under this Contract are not appropriated, authorized or otherwise made available by law, the City may, upon seven (7) business days written notice to Glen Terrace, reduce the level of the products, services or functions in such manner and for such periods of time as the City may elect. The charges payable under this Contract shall be equitably adjusted to reflect such reduced level of products, services or functions and the parties shall be afforded the rights set forth in this Contract.

16.3.3 No Payment for Lost Profits. In no event shall the City be obligated to pay or otherwise compensate Glen Terrace for any lost or expected future profits.

16.4. Rights Upon Termination.

16.4.1 Termination for Cause. In the event the City terminates this Contract for cause, Glen Terrace shall relinquish to the City any applicable interest, title and ownership including, but not limited to, perpetual use of any proprietary rights in and to the products and deliverables delivered to, in possession of and properly invoiced and paid for by (except to the extent such invoiced amount is disputed) the City. With regard to third party products, Glen Terrace shall transfer all licenses which it is permitted to transfer in accordance with the applicable third party license. The City shall have no financial obligation to compensate Glen Terrace for such terminated products unless payment is otherwise approved by the City prior to such termination. Glen Terrace shall be liable for costs incurred by the City, including but not limited to reasonable attorney fees and all court awarded fees and costs incurred in terminating this Contract in whole or in part.

16.4.2 Termination for Lack of Funding or Convenience. In the event of termination by the City for lack of funding or convenience, the City shall pay Glen Terrace for all labor, services, equipment, materials, reports, plans, specifications, drawings, deliverables, incidentals, etc.(including any holdbacks) installed and delivered to the City as of the Termination Date and Glen Terrace shall relinquish to the City any applicable interest, title and ownership including, but not limited to perpetual use of any proprietary rights in and to said labor, services, equipment, materials, reports, plans, specifications, drawings, deliverables, incidentals, etc. delivered to, in possession of and paid for by the City (except to the extent any invoiced amount is disputed). Glen Terrace shall be required to exercise commercially reasonable efforts to mitigate damages. In the event of a termination for Lack of Funding or Convenience the City and Glen Terrace may negotiate a mutually acceptable payment to Glen Terrace for reasonable demobilization expenses. Said demobilization expenses, if any, shall be handled in accordance with the provision of this Contract pertaining to changes in the Project.

16.4.3 Assumption of Subcontracts. In the event of termination, the City shall have the right to assume, at its option, any and all subcontracts for products, services and functions provided exclusively under this Contract.

16.4.4 Delivery of Documents. In the event of termination, **(i)** Glen Terrace shall promptly deliver to the City, in a manner reasonably specified by the City, all documents and other tangible items furnished by, or owned, leased, or licensed by,

the City, and **(ii)** the City shall pay Glen Terrace for all services performed and deliverables completed and accepted (pro-rated for deliverables partially completed) prior to the effective date of the termination (except to the extent any invoice amount is disputed).

17. Force Majeure. Glen Terrace shall not be held responsible for delays nor be subject to liquidated damages when such delays are caused by conditions beyond its control, including without limitation:

17.1. Acts of God, fire, explosion, epidemic, cyclone, flood, war, strikes, revolution, civil commotion, or acts of public enemies; and

17.2. Change of law and order, proclamation, regulation, ordinance, or governmental requirement.

Upon cessation of work for reason of force majeure delays, Glen Terrace shall use its best efforts to meet the schedule set forth in Section 5 of this Contract.

18. Subcontracting. Glen Terrace shall not, without the prior written approval of the City's Using Agency, subcontract, in whole or in part, any of Glen Terrace's services. Any subcontractor so approved shall be required to secure and maintain insurance coverage equal to or better than that required of Glen Terrace and shall name the City as an additional insured party and said subcontractors shall deliver to the City a certificate of insurance evidencing such coverages. All subcontractors shall comply with all federal, state and local, laws, regulations and ordinances but such requirement shall not relieve Glen Terrace from its requirement that all services provided hereunder shall comply with all Federal, State and local, laws, regulations and ordinances.

18.1. Glen Terrace shall be as fully responsible to the City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as it is for the acts and omissions of persons directly employed by Glen Terrace.

18.2. Glen Terrace is responsible for and shall control activities of its subcontractors, and the subcontractors shall consult and cooperate with one another and other contractors working on the Project site. Each subcontractor shall furnish all necessary information to other subcontractors and shall lay out and install its own work so as to avoid any delays or interferences with the work of another. Any cost for changes, cutting and/or repairing, made necessary by failure to observe the above requirements shall be borne by Glen Terrace or subcontractor responsible for such failure or neglect.

18.3. Glen Terrace shall not, without the prior written approval of the City's Using Agency, substitute, terminate, replace or otherwise remove a subcontractor.

19. Assignability. Glen Terrace shall not assign any interest in this Contract, and shall not transfer any interest in the same (whether by assignment or novation) without the prior written approval of the City; provided, however, that claims for money due or to become due Glen Terrace from the City under this Contract may be assigned to a bank, trust, company, or other financial institution, or to a Trustee in Bankruptcy, without such approval. Notice of any such assignment or transfer shall be furnished promptly to the City.

20. Audit. The City reserves the right to audit Glen Terrace's books of account in relation to this Contract any time during the period of this Contract or at any time during the twelve month period immediately following the closing or termination of this Contract. In the event the City elects to make such an audit, Glen Terrace shall immediately make available to the City all records pertaining to this Contract, including, but not limited to, payroll records, bank statements and canceled checks.

21. Interest of City Officials. No member of the governing bodies of the City, and no other officer, employee, or agent of the City who exercises any functions or responsibilities in connection with the carrying out of the Project to which this Contract pertains, shall have any personal interest, direct or indirect, in this Contract.

22. Interest of Glen Terrace. Glen Terrace covenants that it presently has no interest and shall not acquire any interest, direct or indirect, in the Project or any parcel of land therein or any other interest which would conflict in any manner or degree with the performance of its services hereunder. Glen Terrace further covenants that in the performance of this Contract no person having any such interest shall be employed.

23. Entire Contract. This Contract shall constitute the complete and exclusive statement of the contract between the parties as it relates to this transaction and supersedes all previous agreements and understandings, whether written or oral, relating to such subject matter. Any amendment to this Contract must be in writing and agreed to and executed by the City and Glen Terrace, and must comply with the City's Charter and Code of Ordinances.

24. Independent Contractor Relationship. The relationship between the City and Glen Terrace is that of client and independent contractor. No agent, employee, or servant of Glen Terrace shall be deemed to be an employee, agent or servant of the City. Glen Terrace shall be solely and entirely responsible for its acts and the acts of its agents, employees, servants and subcontractors during the performance of this Contract.

25. Severability. Whenever possible, each provision of this Contract shall be interpreted in such a manner as to be effective and valid under applicable law. If any provision of this Contract, however, is held to be prohibited or invalid under applicable law, such provision shall be deemed restated to reflect the original intentions of the parties, as nearly as possible in accordance with applicable law, and if capable of substantial performance, the remaining provisions of this Contract shall be enforced as if this Contract was entered into without an invalid provision. If the ruling and/or controlling principle of law or equity leading to the ruling is subsequently overruled, modified or amended by legislation, judicial or administrative action, then the provision(s) in question as originally set forth in this Contract shall be deemed valid and enforceable to the maximum extent permitted by the new controlling principal of law or equity.

26. Survival. Any provisions of this Contract that impose continuing obligations on the parties shall survive the expiration or termination of this Contract for any reason.

27. Changes in the Project: Change Orders.

27.1. Requests for Change Orders. The City reserves the right on its own volition, or based upon a proposal for a Change Order submitted in written form with a thorough explanation by Glen Terrace, to request from time to time any changes to the requirements

and specifications of this Contract and the products to be provided and the functions and services to be performed by Glen Terrace under this Contract. Such changes must be authorized by the City. The City will not approve of any change orders, deletions, additions, or additional work items to the Scope of Services or any change in the terms and conditions of this Contract except by means of a City authorized amended Scope of Services, applicable and restricted to those items set forth in §1, above, or Change Order issued as set forth in this section, except in the event of an emergency endangering life or property.

27.2. Procedures.

27.2.1 Glen Terrace's Response to a Change Request.

i. Within thirty (30) calendar days after receipt of a request by the City for any such change or such other period of time as the Parties may mutually agree to in writing, Glen Terrace shall submit to the City a proposal describing any changes in Contract Milestones or Contract completion dates, products, functions, timing of delivery, assignment of personnel, and the like, and any associated price adjustment. Glen Terrace's proposal shall describe, in detail, the basis for the proposed price adjustment, including the charges for any products required to implement the change request.

ii. To the extent that additional cost or cost savings result from a change in required products, Glen Terrace shall obtain any additional products and provide them to the City at a negotiated price acceptable to the City and Glen Terrace. Similarly, if the change request is expected to result in a reduction in products required to perform the services, Glen Terrace's charges shall be reduced by the cost savings resulting from the products eliminated by the change request**.**

27.2.2 City's Acceptance of Change Request. If the City accepts Glen Terrace's proposal, the City shall issue a change order referencing Glen Terrace's proposal and both parties shall sign the change order. Glen Terrace shall not implement any change request until the City has issued a valid, properly executed, change order.

27.2.3 City's Rejection of Change Request. If the City does not accept Glen Terrace's proposal, the City may within two weeks of such non-acceptance: **(i)** withdraw its change request; or, **(ii)** modify its change request, in which case the procedures set forth above shall apply to Glen Terrace's response to the modified change request.

27.3. City Discretion. The City may, in its sole discretion, approve the proposed Change Order and shall forward same for additional signatures under the following conditions: **(i)** If it conforms to provisions of applicable laws, and **(ii)** if it is consistent with this Contract, and **(iii)** if the time of performance of this Contract will not be unreasonably delayed, **(iv)** the Final Completion date is not changed, **(v)** if the Change Order requires a change to the Final Completion date, such change has been authorized by an approved, executed, written Amendment to this Contract, and **(vii)** if the Change Order requires an increase in the price of the Contract, the City **(1)** has sufficient funds, and **(2)** if a budget transfer is

required to cover the cost of the proposed Change Order, such transfer has secured the written approval of the Board of Aldermen and other required regulatory agencies.

27.4. Change Orders Governed by the Provisions of this Contract. All work performed under a Change Order is governed by the provisions of this Contract.

28. Conflicts or Disputes. This Contract represents the concurrence between the City and Glen Terrace and governs all disputes between them. In the instance of a conflict or dispute over issues not specifically referenced within the Contract, the following documents shall be used as historical documents, without regard to the order of precedence, to resolve such conflicts or disputes, as follows: **(i)** the City's **ITB Number 6110** and **(ii)** Glen Terrace's Bid response to **ITB Number 6110,** dated May 21, 2018. Said historical documents are attached hereto as part of **Attachment A.**

28.1. Procedure. This procedure supersedes all statements to the contrary occurring either in proposals or other prior agreements, oral or written, and all other communications between the parties relating to this subject.

28.2. Presumption. This Contract or any section thereof shall not be construed against any party due to the fact that the Contract or any section thereof was drafted by such party.

29. Disputes; Legal Proceedings; Waiver of Trial by Jury and Continued Performance. Glen Terrace agrees that its waives a trial by jury as to any and all claims, causes of action or disputes arising out of this Contract or services to be provided pursuant to this Contract. Notwithstanding any such claim, dispute or legal action, Glen Terrace shall continue to perform services under this Contract in a timely manner, unless otherwise directed by the City.

30. Binding Contract. The City and Glen Terrace each bind themselves, and their successors, assigns and legal representatives to the other party to this Contract and to the successors, assigns and legal representatives of such other party with respect to all covenants of this Contract.

31. Waiver. Any waiver of the terms and conditions of this Contract by either of the parties hereto shall not be construed to be a waiver of any other term or condition of this Contract.

32. Governing Laws. This Contract, its terms and conditions and any claims arising there from shall be governed by the laws of the State of Connecticut.

33. Notice. Except as otherwise specifically prohibited in this Contract, whenever under this Contract approvals, authorizations, determinations, notices, satisfactions or waivers are required or permitted, such items shall be effective and valid only when given in writing signed by a duly authorized officer of the City or Glen Terrace, and delivered in hand or sent by mail, postage prepaid, to the party to whom it is directed, which until changed by written notice, are as follows:

Contractor: Glen Terrace Landscaping, Inc.
759 Sherman Avenue
Hamden, CT 06514

City: City of Waterbury
Chase Municipal Building
235 Grand Street
Waterbury, CT 06702

34. City Code of Ordinances, Ethics and Conflict of Interest Code, Provisions.
The Person (the term "Person" shall herein be as defined in Section 38 of the City's Code of Ordinances) supplying the labor, services, equipment, materials, reports, plans, specifications, drawings, deliverables, incidentals, etc. under this Contract shall comply with all applicable Federal, State and Municipal statutes, regulations, charters, ordinances, rules, etc., whether or not they are expressly stated in this Contract, including but not limited to the following:

34.1. It shall be a material breach of this Contract, and, except as may be permitted by regulations or rulings of the City of Waterbury Board of Ethics it shall be a violation of the City's Code of Ordinances, for any Public Official, City Employee or Member of a Board or Commission who is participating directly or indirectly in the procurement process as set forth in the City's Code of Ordinances, including those participating in exempt transactions, to become or be the employee of any person contracting with the governmental body by whom the Official, Employee, or Board or Commission member is employed or is a member.

34.2. It shall be a material breach of this Contract, and it shall be a violation of the City's Code of Ordinances for any Person to offer, give, or agree to give any current or former Public Official, Employee or Member of a Board or Commission, or for such current or former Public Official, Employee or Member of a Board or Commission to solicit, demand, accept or agree to accept from another Person, a gratuity or an offer of employment in connection with any: decision; approval; disapproval; recommendation; preparation of any part of a program requirement or a requisition; influencing the content of any specification or procurement standard; or rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a Contract or Purchase Order, or to any solicitation or proposal therefore.

34.3. It shall be a material breach of this Contract and it shall be a violation of the City's Code of Ordinances for any payment, Gratuity, or offer of employment to be made as an inducement for the award of a subcontract or order, by or on behalf of a subcontractor, the prime Contractor or higher tier subcontractor or any Person associated therewith, under a Contract or Purchase Order to the City.

34.4. The value of anything transferred or received in violation of the City's Charter, Code of Ordinances, and/or regulations promulgated there under, by any Person subject to said Charter and/or Ordinances may be recovered by the City.

34.5. Upon a showing that a subcontractor made a kickback to the City, a prime Contractor or a higher tier subcontractor in connection with the award of a subcontract or order there under, it shall be conclusively presumed that the amount thereof was included

in the price of the subcontract or order and ultimately borne by the City and will be recoverable hereunder from the recipient. In addition, said value may also be recovered from the subcontractor making such kickbacks. Recovery from one offending party shall not preclude recovery from other offending parties.

34.6. It shall be a material breach of this Contract and it shall be a violation of the City's Code of Ordinances for a Person to be retained, or to retain a Person, to solicit or secure a contract with the City upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee; and every Person, before being awarded a City Contract, shall deliver to the City, on a City authored form, a representation that such Person has not retained anyone in violation of this subsection 34.6, the failure to deliver said form being a material breach of this Contract and a violation of the City's Code of Ordinances. Note, however, this subsection 34.6 shall not apply to full-time Employees who, as a condition of their employment, may be entitled to bonuses or other fees in accordance with their employment relationship.

34.7. The Person hereby expressly represents that he/she/it has complied with those sections of the City's Code of Ordinances requiring that said Person has **(i)** delivered to the City an affidavit, on a City authored form, stating that the Person and its affiliates have no delinquent taxes or other financial obligations owned to the City; **(ii)** filed the City authored financial disclosure statement form as set forth in the City's Code of Ordinances regarding disclosure of financial interests; **(iii)** delivered to the City a written acknowledgement, on a City authored form, evidencing receipt of a copy of the "Ethics and Conflict of Interest" ordinance for the City of Waterbury and hereby expressly represents that said Person is in full compliance with the entirety of said Code of Ordinances; and **(iv)** filed a current list of all taxable personal and real property as required by the State of Connecticut General Statutes. Any violation of this subsection 34.7 shall be deemed a material breach of this Contract and shall be a violation of the City's Code of Ordinances.

34.8. The definitions set forth in the City's Code of Ordinances shall be the primary source for interpretation of the forgoing subsections 34.1-34.7.

34.9. Glen Terrace is hereby charged with the requirement that it shall have knowledge of, and shall fully comply with, all relevant provisions of the City's Charter and all relevant provisions of the City's Code of Ordinances, including without limitation Chapters 93, titled "Discriminatory Practices", Chapter 38 titled "Centralized Procurement System", and Chapter 39 titled "Ethics and Conflict of Interest", of said Code as may be amended from time to time.

34.10 Glen Terrace hereby acknowledges receipt of a copy of the Chapters 38 and 39 of City's Ordinance regarding Procurement, Ethics, and Conflicts of Interest and has familiarized itself with said Code and hereby agrees to adhere to said Code. The text of Chapters 38 and 39 of said Code may be obtained from the Office of the City Clerk of the City and on the internet at the City Clerk's web site: http://www.waterburyct.org/content/9569/9605/9613/default.aspx [click link titled "The City of Waterbury Code of Ordinances *Current to12/31/2015*". For Chapter 38, click on "Title III: Administration", then click on "Chapter 38: Centralized Procurement System".

For Chapter 39, click on "Title III: Administration", then click on "Chapter 39: Ethics and Conflicts of Interest"].

34.11. Glen Terrace is hereby charged with the requirement that it shall have knowledge of, and shall fully comply with, the City's Ordinance Sections 34.15 through 34.99 entitled, "Ordinance Concerning the Hiring of Waterbury Residents on Certain Publicly-Funded Construction Projects," and the State of Connecticut Legislature's Special Act No. 01-1.

34.12. Every Person who conducts business with, contracts, with or provides commodities or services to the City, is charged with notice of the extent of the powers and authority, and the limitations thereon, of the Public Officials and Employees of the City, as set forth in the charter of the City, the Code of Ordinances and any Regulations or Policies pertaining thereto. In particular, and without implying any limitation as to its applicability, it applies to all Persons who participate in the procedures pertaining to the Centralized Procurement System as set forth in Chapter 38, and the Ethics and Conflict of Interest provisions set forth in Chapter 39 of the Code of Ordinances.

34.13. Interest of City Officials. No member of the governing body of the City, and no other officer, employee, or agent of the City who exercises any functions or responsibilities in connection with the carrying out of the project, to which this agreement pertains, shall have any personal interest, direct or indirect, in this agreement.

34.14. Prohibition Against Contingency Fees. Glen Terrace hereby represents that it has not retained anyone to solicit or secure a contract with the City upon an agreement or understanding for a commission, percentage, brokerage or contingency fee.

34.15. Freedom of Information Act Notice. Pursuant to State statute, in the event the total compensation payable to Glen Terrace set forth in Section 6 of this Contract is greater than $2,500,000.00, the City is entitled to receive a copy of any and all Contractor records and files related to the performance of this Contract and those records and files are subject to the Freedom of Information Act ("the Act") and may be disclosed by the City pursuant to the Act.

35. Definitions. Whenever the following, words, terms, etc. appear in this Contract, the intent and meaning shall be as follows:

35.1 Additional Work: Work required by the City that involves a substantial addition to, deduction from or modification of the Contract Documents.

35.2 Bid or Proposal: The form on which the bidder is to submit a bid for the Work contemplated.

35.3 Bidder: A person, partnership, corporation or other business organization submitting a bid on the form for the Work contemplated.

35.4 City: The City of Waterbury, acting directly or through specifically authorized personnel.

35.5 Construction Supervisor: An employee of the City of Waterbury, or other City duly authorized person.

35.6 Contract Time: The number of days as stated in the Contract to: (i) achieve Substantial Completion, (ii) Final Completion.

35.7 Equal: The recognized equivalent in substance and function; considering quality, workmanship, economy of operation, durability and suitability for purposes intended, and not constituting a change in the Work specified. Whenever the words "equal" or "equals" or words of like import are used, it shall be understood they mean "equal" in the opinion of the City.

35.8 Final Completion: The time at which the Project has progressed to the point where, in the opinion of the City, the Project is complete such that it is ready for final payment as evidenced by the City's, or its duly authorized City representative's, written recommendation of final payment. The terms "finally complete" and "finally completed" as applied to the Project refer to Final Completion.

35.9 Notice to Proceed: A letter from the City which shall state the date of execution of the Contract and specifically advise Glen Terrace to begin work on the Contract.

35.10 Plans: All drawings or reproductions of drawings pertaining to the construction of the work contemplated and its appurtenances.

35.11 Project Engineer or Manager: An employee of the City or a person, partnership, corporation or other business organization under contract with the City, commissioned to perform construction administration and inspection duties during construction.

35.12 Shop Drawings: Drawings, diagrams, schedules, performance charts, brochures and other materials prepared by Glen Terrace or subcontractors, manufacturers or distributors which illustrate some portion of the work.

35.13 Specifications or Technical Specifications: The description, provisions and other requirements pertaining to the materials, methods and manner of performing the Project.

35.14 Subcontractor: A person, partnership, corporation or other business organization supplying labor and/or materials for work at the site of the Project to and under agreement with Glen Terrace.

35.15 Substantial Completion: The time at which, in the opinion of the Engineer, the Project (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Project (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Project mean Substantial Completion thereof.

35.16 Substitution: A replacement of specified material, device or equipment which is sufficiently different in substance, function, quality or workmanship to become the subject of a Change Order.

35.17 Supplementary General Conditions: An extension to the terms, conditions, and provisions set forth in this document as additional, material, provisions of this Contract.

35.18 Work: All plant, labor, materials, services, supplies, equipment and other facilities and items necessary for, or incidental to, the completion of the terms of the Contract.

35.19 Using Agency: City of Waterbury Education Department

[Signature page follows]

IN WITNESS WHEREOF, the parties hereto execute this Contract on the dates signed below.

WITNESSES:	**CITY OF WATERBURY**
_____	By:_____ Neil M. O'Leary, Mayor Duly Authorized
_____	Date: _____

WITNESSES:	**GLEN TERRACE LANDSCAPING, INC.**
_____	By:_____
_____	Its _____ Duly Authorized
	Date: _____

ATTACHMENT A

i. City of Waterbury Invitation to Bid Number 6110, consisting of 108 pages (excluding Sample Contract and Contractor Compliance packet), including Project plans, specifications, drawings, supplemental conditions (Attached hereto).
ii. Bid Addendum Number 1 to City of Waterbury Invitation to Bid Number 6110, issued May 10, 2018, consisting of 1 page (Attached hereto).
iii. Bid Addendum Number 2 to City of Waterbury Invitation to Bid Number 6110, issued May 14, 2018, consisting of 3 pages (Attached hereto).
iv. Bid Addendum Number 3 to City of Waterbury Invitation to Bid Number 6110, issued May 15, 2018, consisting of 3 pages (Attached hereto).
v. Glen Terrace's response to City of Waterbury Invitation to Bid Number 6110, dated May 21, 2018, consisting of 51 pages (Attached hereto).
vi. Any and all amendment(s) and Change Orders, issued by the City after execution of Contract (Incorporated by reference).
vii. Stockholder's Affidavit; Non-Collusion Affidavit; Debarment Certificate (Incorporated by reference).
viii. Performance Bond and Payment Bond (Incorporated by reference).
ix. Certificates of Insurance (Incorporated by reference).
x. All applicable Federal, State and local statutes, regulations charter and ordinances (Incorporated by reference).
xi. All permits and licenses (Incorporated by reference)

THE CITY OF WATERBURY

PLAYGROUND IMPROVEMENTS
ITB #6110

INVITATION TO BID

Sealed Bids for **PLAYGROUND IMPROVEMENTS** will be received by the City of Waterbury at the office of the Director of Purchasing, Room 103, City Hall Building, 235 Grand Street, Waterbury, CT 06702 until 10:30 a.m. on May 21, 2018 and at that time and place will be publicly opened and read aloud. No bids will be received after 10:30 a.m. on the day the bids are to be opened.

The Work consist(s) of: **playground improvements at Chase, Generali, Bucks Hill and Walsh Elementary School.**

Bids must be enclosed in an opaque sealed envelope and plainly marked with the name of the Project Title "**playground improvements**" and shall contain the name and address of the Bidder on the envelope.

Each Bid shall be submitted in accordance with the Instructions to Bidders and be accompanied by a Bid Security in the amount of **ten (10) percent** of the Total Bid Price.

The Bidder to whom a contract is offered, must furnish to the City, if that contract has a total cost greater than $50,000.00, a 100 percent Performance Bond with a surety, and in a form, acceptable to the City. In the City's sole discretion, it may also require a 100 percent Payment Bond and/or other additional security with a surety, and in a form, acceptable to the City.

Complete instructions for filing Bids are included in the Instructions to Bidders.

After review of the factors set forth in the Instructions to Bidders, the City reserves the right to reject any and all Bids, to make an award, or to decline to make an award.

A mandatory pre-bid conference will start at Chase located at 40 Woodtick Rd, at 10:00 a.m. on May 9, 18 2018. Further information will be provided on site for the walkthrough at Generali,Bucks Hill and Walsh School.

Attendance at the pre-bid conference by a representative of each Bidder is mandatory.

This contract is subject to state set-aside and contract compliance requirements. State funding for this contract is anticipated to be 100%. If the cost of the project is over $500,000, then DAS pre-qualification is required.

Contact Rocco Orso, Director of Purchasing, at 203-574-6748 for further information.

END OF SECTION

THE CITY OF WATERBURY

PLAYGROUND IMPROVEMENTS

ITB #6110

TABLE OF CONTENTS

SECTION 00100

INSTRUCTIONS TO BIDDERS

ARTICLE 1. QUALIFICATIONS OF BIDDERS

1.1 In evaluating Bids, the City of Waterbury ("the CITY") will consider the qualifications of only those Bidders whose Bids, among other factors, are in compliance with the requirements set forth elsewhere in the Bid Documents.

ARTICLE 2. COPIES OF BID DOCUMENTS

2.1 Complete sets of Bid Documents shall be used in preparing Bids; neither the CITY nor it's representative assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bid Documents.

2.2 The CITY and its representative in making copies of Bid Documents available do so only for the purpose of obtaining Bids on the Work and do not confer a license or grant for any other use.

ARTICLE 3. EXAMINATION OF BID DOCUMENTS AND SITE

3.1 Before submitting a Bid, each Bidder must (a) examine the Bid Documents thoroughly, (b) familiarize itself with all Federal, State and local laws, ordinances, rules and regulations that may in any manner affect cost, progress or performance of the Work; and (c) study and carefully correlate the Bidder's observations and findings with the requirements of the Bid Documents.

3.2 The submission of a Bid will constitute an incontrovertible representation by the Bidder that it has complied with every requirement of this Article 3 and that the Bid Documents are sufficient in scope and detail to indicate and convey all terms and conditions necessary for the Bidder's proposed performance of the Work.

ARTICLE 4. INTERPRETATIONS

4.1 All questions about the meaning or intent of the Bid Documents must be submitted to the CITY's eProcurement website **by May 11, 2018, 2 p.m.**

4.2 The CITY will issue written clarifications or interpretations by Addenda online at the CITY's eProcurement website not later than **May 15, 2018, 2 p.m.**

Only information issued by such City written Addenda will be binding. Oral and other clarifications or interpretations will not be binding and will be without legal effect.

4.3 Each Bidder shall be responsible for determining that it has received all Addenda issued and shall acknowledge receipt of all Addenda on the Addendum Acknowledgment Form and the Bidder shall list therein all written Addenda number(s) issued by the CITY.

ARTICLE 5. PRE-BID CONFERENCE

5.1 **A mandatory pre-bid conference will be held at the time and place indicated in the Invitation to Bid to discuss the requirements of the Bid Documents. Attendance at the pre-bid conference is mandatory by a representative of each perspective Bidder.**

ARTICLE 6. BID FORM

6.1 Each Bid shall be submitted on the Bid Form included in Section 00400 of the Bid Documents. The Bid Form shall be removed from the Bid Documents, filled in as required below, and submitted to the CITY. Bidders must fill in all blank spaces on the Bid Form for Bid prices, including without limitation unit prices, extended prices and total price or the Bid will not be considered and shall be void

6.2 Bid Forms shall be completed in ink. The Bid price of each item on the form shall be stated in words and in figures. If unit prices are required on the Bid Form, discrepancies between unit prices and their respective total amounts will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

6.3 All names shall be typed or printed below the signature.

6.4 The name and address to which communications regarding the Bid are to be directed shall be shown.

6.5 One (1) original, one (1) paper copy, as well as a copy of the original Bid in pdf format on a CD or flash drive, Each Bid shall be submitted in a sealed opaque envelope bearing on the outside the name of Bidder, its address, and the Project Title for which the Bid is submitted. Any bidder who fails to provide the required copy of the bid may be disqualified. (If forwarded by mail, Bid and sealed envelope marked as described above shall be enclosed in another envelope with the notation "BID ENCLOSED" on the face and addressed as indicated in the Invitation to Bid.)

ARTICLE 7. RECEIPT OF BIDS

7.1 Sealed Bids for the Work of this Project will be received at the time and place indicated in the Invitation to Bid.

7.2 The CITY, in its sole discretion, may refuse to consider any Bid not prepared and/or not submitted in accordance with the Bid Documents. **Bids will not be received or accepted by the CITY from perspective Bidders who did not attend a mandatory pre-bid conference.**

7.3 Bidders are cautioned that it is the responsibility of each individual Bidder to assure that its Bid is in the possession of Rocco Orso, Director of Purchasing, or an alternate designated by him, prior to the stated time and at the place of the Bid Opening. The CITY is not responsible for Bids delayed by mail and/or delivery services of any nature.

ARTICLE 8. MODIFICATION AND WITHDRAWAL OF BIDS

8.1 Bids may be modified only by an appropriate document duly executed in the same manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to that time scheduled by the CITY for the opening of Bids.

8.2 A Bid may be withdrawn by the Bidder prior to the scheduled time (or authorized postponement thereof by the CITY) for the opening of Bids:

8.3 **Any Bid received after the time and date specified as the time for the CITY's opening of Bids shall not be considered. Once bids are opened by the CITY, no Bidder may withdraw its Bid for a period of ninety (90) days, excluding Saturdays,**

Sundays and legal holidays, after the actual date of the CITY's opening of the Bids.

ARTICLE 9. LOWEST RESPONSIBLE BIDDER

9.1 A contract may be awarded to the Lowest Responsible Bidder. The term "Lowest Responsible Bidder" as used herein shall mean the Bidder whose Total Bid Price is the lowest of those Bidders possessing, without limitation, the skill, ability, expertise, experience, qualifications and integrity necessary for the faithful performance of the Work, as determined by the CITY.

9.2 After review of these and other factors, including without limitation, responsiveness, qualifications and price, the CITY reserves the right to reject any and all Bids, to decline to make an award, to waive any and all informalities if it is in the CITY's best interest to do so. The CITY reserves the right to disregard all nonconforming, nonresponsive, conditional Bids, and Bids taking exception(s) to the Bid Documents.

9.3 A Bid which includes, for any Item(s), a Bid Price that is abnormally low or high may be rejected in its entirety.

9.4 The CITY reserves the right to reject the Bid of any Bidder that the CITY considers not to possess the qualities set forth in Article 11.1 herein.

9.5 PRE-CONTRACT AWARD REQUIREMENTS: After submitting a bid proposal, and prior to award of a contract, the selected Contractor(s) will be required to attend a pre-construction/scope review meeting. At this meeting, the scope of work and requirements of the documents will be reviewed to confirm the lowest, qualified, responsible bidder. When advised by the Owner and prior to the award of a contract, each trade contractor shall submit to the Owner a list of the proposed subcontractors which the trade contractor intends on using for the project.

ARTICLE 10. PURCHASE ORDER ISSUANCE/AWARD AND EXECUTION OF CONTRACT

10.1 If a purchase order(s) is to be issued, it will be issued within ninety (90) calendar days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening of the Bids.

10.2 If a contract is to be awarded, the CITY will give the Lowest Responsible Bidder a Notice of Award within ninety (90) calendar days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening of the Bids.

10.3 Subsequent to a Notice of Award, if any, to the Lowest Responsible Bidder (hereinafter "Contractor"), multiple unsigned copies of a contract and all other applicable contract documents will be made available to the Lowest Responsible Bidder for its execution. Within five (5) calendar days, excluding Saturdays, Sundays and legal holidays, applicable contract documents, including without limitation, all required bonds and certificates of insurance to the CITY. Thereafter, upon all required reviews, approvals, and the CITY's signature, the CITY will deliver one fully signed copy of the contract to Contractor. The CITY shall incur no obligations, contractual or otherwise, unless and until the CITY signs a contract, delivers a signed copy of the contract to the Contractor, and the CITY delivers to the Contractor the CITY's written notice to proceed.

ARTICLE 11. ACCESS TO SITE

11.1 Representatives of the State and any local or federal agencies having an interest in the Work shall have access to the Work wherever it is in preparation or progress and the Contractor shall provide proper facilities for such access and inspection.

ARTICLE 12. SALES TAX

12.1 The goods and services to be provided under any contract or purchase order awarded pursuant to this Invitation to Bid is exempt from the sales taxes of the State of Connecticut.

ARTICLE 13. INSURANCE

13.1 The Contractor shall not commence work under this Contract until all insurance required under this Section 13 has been obtained by the Contractor and such insurance has been approved by the City. The Contractor shall not allow any subcontractor to commence work on any subcontract until all insurance required of any such subcontractor has been so obtained and approved by the City. Insurance shall be provided by insurers, satisfactory to the City and authorized to do business in the State of Connecticut, an "A-" Best's Rating and at least a Class V3 or better financial size category as shown in the most current A.M. Best Company ratings.

13.2 At no additional cost to the City, the Contractor shall purchase and maintain the insurance coverages set forth below which shall protect the City from claims which may arise out of or result from the Contractor's obligation under this Contract, whether such obligations are the Contractor's or subcontractor or person or entity directly or indirectly employed by said Contractor or subcontractor, or by any person or entity for whose acts said Contractor or subcontractor may be liable.

13.3 Each insurance policy shall state that the insurance company shall agree to investigate and defend the insured against all claims for damages, even if groundless. If any insurance required herein is to be issued or renewed on a claims made form as opposed to an occurrence form, the retroactive date for coverage shall be no later than the commencement date of this Contract and shall provide that in the event of cancellation or non-renewal, the discovery period for insurance claims ("Tail Coverage") shall be available for at least 60 months.

13.4 The following policies with stated limits shall be maintained, in full force and effect, at all times during which the services are to be performed by the Contractor:

13.4.1 **General Liability Insurance:** **$1,000,000.00** per occurrence, **$2,000,000,00** aggregate and **$2,000,000.00** Products and completed operations aggregate providing coverage to protect the City for all damages arising out of bodily injuries, sickness to or death of all persons in any one accident or occurrence and for all damages arising out of destruction of property in any one accident or occurrence.

13.4.2 **Automobile Liability Insurance:** **$1,000,000.00** combined single limit (CSL). Providing coverage to protect the City with respect to claims for damage for bodily injury and or property damage arising out of ownership, maintenance, operation, use or loading and unloading of any auto including hired & non-owned autos.

13.4.3 **Workers' Compensation:** Statutory Limits within the State of Connecticut:
Employers' Liability: EL Each Accident **$500,000.00**
EL Disease Each Employee **$500,000.00**

EL Disease Policy Limit $500,000.00

Contractor shall comply with all State of Connecticut statutes as it relates to workers' compensation.

13.4.4 **Excess/Umbrella Liability Insurance:** Excess or Umbrella insurance coverage that follows form or sits over General Liability, Automobile Liability and Workers Compensation insurances. **$1,000,000.00** each occurrence and **$1,000,000.00** Aggregate.

13.4.5 **Builder's Risk Insurance: Not Applicable -**

13.4.6 **Contractors Pollution Liability Insurance: Not Applicable –**

13.5 Failure to Maintain Insurance: In the event the Contractor fails to maintain the minimum required coverage as set forth herein, the City may at its option purchase same, and offset the Contractor's invoices for the cost of said insurance.

13.6 **Cancellation: The City of Waterbury shall receive written notice of cancellation from the Contractor at least thirty (30) calendar days prior to the date of actual cancellation, regardless of the reason for such cancellation.**

13.7 **Certificates of Insurance:** The Contractor's General, Automobile, Builder's Risk and Excess/Umbrella Liability Insurance policies shall be endorsed to add the City and the Waterbury Board of Education, their public officials, employees, and any other person acting under, through or for them are listed as an as an additional insured and provide waiver of subrogation on all policies except Builder's Risk and Pollution Liability. The insurance afforded the additional insured shall be primary and non-contributory insurance and the coverage and limits provided under the Contractor's policies shall not be reduced or prorated by the existence of any other insurance applicable to any loss the additional insured may have suffered. Prior to the execution of this Contract by the City, the Contractor shall furnish to the City, subject to City approval, certificate(s) of insurance and Additional Insured Endorsement and Waiver of Subrogation Endorsement verifying the above coverages, including the naming of the City of Waterbury as follows: **"The City of Waterbury is listed as an Additional Insured on a primary and non- contributory basis on all policies except Workers Compensation. All policies shall include a Waiver of Subrogation."** The City's Invitation to Bid Number must be shown on the certificate of insurance to assure correct filing. The Contractor must supply replacement/renewal certificates at least 30 days prior to the expiration of the policy(ies). Said certificates shall contain a provision that coverage afforded under the policies shall not be cancelled or reduced for any reasons unless notice of than thirty (30) calendar days has been mailed to the City's Using Agency and a copy to the City's Office of Corporation Counsel, 235 Grand Street, Waterbury, CT 06702.

13.8 No later than thirty (30) calendar days after receipt by the Contractor, the Contractor shall deliver to the City a copy of the Contractor's insurance policies and endorsements and riders.

ARTICLE 14. PURCHASE ORDER/CONTRACT TIME

14.1 BIDDER agrees and covenants that the Contract Time shall commence upon delivery of the CITY's written notice to proceed, which shall occur after contract execution by both parties.

ARTICLE 15. BID DOCUMENTS.

15.1 Bid Documents shall be any and all sections, terms, conditions, forms, drawings, data, etc., listed in the Table of Contents of the Bid Documents.

ARTICLE 16. Federal, State and Local Employment Requirements.

16.1 Contractors, if applicable, shall be obligated to fully comply with the attached Hiring of Waterbury Residents on Certain Publicly-Funded Construction Projects, i.e. City of Waterbury Ordinances Chapter 34 ("Good Jobs Ordinance"), Federal Davis-Bacon Act, Federal American Recovery and Reinvestment Act of 2009, and the Housing and Urban Development Section 3 Clause, all as further specified in the attached City of Waterbury Contract form. Also attached hereto, is a full copy of the aforesaid City of Waterbury Ordinance, commonly referred to as the "Good Jobs Ordinance".

16.2 The contractor who is selected to perform this municipal public works project, funded in whole or part by the State, must comply with CONN. GEN. STAT. §§ 4a-60, 4a-60a, 4a-60g, and 46a-68b through 46a-68f, inclusive, as amended by June 2015 Special Session Public Act 15-5. An Affirmative Action Plan must be filed with and approved by the Commission on Human Rights and Opportunities prior to the commencement of construction.

State law requires a minimum of twenty-five (25%) percent of the state-funded portion of the contract for award to subcontractors holding current certification from the Connecticut Department of Administrative Services ("DAS") under the provisions of CONN. GEN. STAT. § 4a-60g, as amended. (25% of the work with DAS certified Small and Minority owned businesses and 25% of that work with DAS certified Minority, Women and/or Disabled owned businesses.) The contractor must demonstrate good faith effort to meet the 25% set-aside goals.

For municipal public works contracts, the contractor must file a written or electronic non-discrimination certification with the Commission on Human Rights and Opportunities. Forms can be found at http://www.ct.gov/opm/cwp/view.asp?a=2982&q=390928&opmNav_GID=1806.

END OF SECTION

THE CITY OF WATERBURY

PLAYGROUND IMPROVEMENTS
ITB #6110

SECTION 00300

ADDENDUM ACKNOWLEDGEMENT FORM

NOTE. The Bidder is to complete, sign and date this form. The completed form shall be submitted with the BID FORM in accordance with ARTICLE 6 of the INSTRUCTIONS TO BIDDERS.

The undersigned, as Bidder's Authorized Representative, acknowledges receipt of the following Addenda and that the modifications to the Bid Documents noted therein have been considered and all costs related thereto are included in the Bid Prices:

Addendum # _____ Date Issued _____

Addendum # _____ Date Issued _____

Addendum # _____ Date Issued _____

Addendum # _____ Date Issued _____

Addendum # _____ Date Issued _____

Addendum # _____ Date Issued _____

Business Name of Bidder: _____

By Bidder's Authorized Representative
9
Signature: _____

Name _____
(Print or Type)

Title _____
(Print or Type)

Date _____
(Print or Type)

END OF SECTION

THE CITY OF WATERBURY

PLAYGROUND IMPROVEMENTS

ITB #6110

SECTION 00400

Date: _____

Mr. Rocco Orso
Director of Purchasing
City of Waterbury
235 Grand Street
Waterbury, CT 06702

Sir:

Pursuant to and in compliance with the Invitation to Bid, the Undersigned:

_____
(Print or Type Business Name of Bidder)

having carefully examined all the Bid Documents, together with all Addenda, as acknowledged on the Addendum Acknowledgment Form, and having informed itself fully in regard to all conditions pertaining to the providing of the specified Bid Items and the place where the Work, Services and/or Items are to be delivered, constructed, installed and/or performed; and that with this representation, the undersigned makes this Bid.

Further, the undersigned proposes to provide the specified Bid Items, to perform all Services and/or to furnish all equipment, labor and materials, etc. and to complete the Work in its entirety in the manner and under the conditions required by the Bid Documents at the prices listed as follows:

BID ITEMS

BID ITEM	AMOUNT BID	AMOUNT BID IN NUMBERS
1.0	Buck's Hill Elementary School	$,00
2.0	H.S. Chase Elementary School	$ .00
3.0	Margaret M. Generall Elementary School	$ .00
4.0	Walsh Elementary School	$ .00
Sub Total Bid Items 1.0-4.0		$ .00

5.0	Allowance for Changes; 5% of Sub Total Bid Items 1.0 – 2	$ .00
TOTAL BID PRICE ITEMS 1.0 – 5.0		$ .00

In the event of mathematically incorrect calculations of individual items or totals, the mathematically correct amount using the estimated quantities and unit prices (in words) shall govern in determining the TOTAL BID PRICE.

The undersigned also agrees that the quantities indicated are for Bid comparison purposes only and are not represented to be actual quantities for completion of the Work.

The undersigned hereby certifies under the penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this section, the work "person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.

_____
Social Security Number or
Federal Identification Number

Signature of Individual or
Corporate Name:

_____
Corporate Officer
(if applicable)

Notice of acceptance should be mailed, telegraphed or delivered to the (undersigned Bidder at the following address):

_____
(Name)

By:_____
(Title)

_____
(Business Address)

_____
(City, State, Zip Code)

Date:_____

Note: If the Bidder is a corporation, indicate State of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses, if different from business address.

The following documents are attached to and made a condition of the Bid:

a. Instructions to Bidders – Section 00100
b. Addendum Acknowledgement – Section 00300
c. Bid Form – Section 00400
d. Technical Specifications – Section 00500

END OF SECTION

THE CITY OF WATERBURY

PLAYGROUND IMPROVEMENTS
ITB #6110

SECTION 00500

TECHNICAL SPECIFICATIONS

PLEASE SEE 2018-04-24 PLAYGROUND IMPROVEMENTS SPECS-, SCHEDULES OF VALUE AND DRAWINGS.

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SITE WORK INDEX

NOTICE TO CONTRACTOR – SPECIAL SITE CONDITIONS

These items will be reviewed in greater detail during the preconstruction meeting to be held prior to the initiation of construction activities at the time and date to be determined.

1. PROTECTION OF THE EXISTING PAVEMENTS & SITE APPURTENANCES

   The contractor is advised that special care will be required during construction to protect the integrity of the existing pavements and site appurtenances. The contractor will be responsible for all repairs to or replacement of the existing pavements and site appurtenances caused by construction activities.

2. SITE ACCESS AND PROTECTION OF EQUIMPMENT AND MATERIALS

   It shall be the responsibility of the Contractor to secure and protect all equipment, materials stored at the site, and installed improvements by whatever means they see fit throughout the duration of the project.

3. SAFETY PLAN

   As the area immediately surrounding the project area may be used by the public for summer school activities, safety of the work site will be of the utmost importance to the City. Because of this, prior to the commencement of construction, the contractor shall prepare a project-specific health and safety plan for approval by the owner.

4. EXISTING CONDITIONS

   It shall be noted that groundwater may be present during earthwork operations and that the underlying natural moraine, dense-silty soils will be sensitive to remolding under construction equipment when wet. It is the responsibility of the contractor to utilize best practices and take caution while performing earthwork operations to limit soil saturation. No additional payment will be made for poor management of earthwork operations. The contractor shall protect stockpiles to prevent saturation of soils. Earthwork operations shall be performed under the observation of a geotechnical engineer.

INTRODUCITON TO THE TECHNICAL SPECIFICATIONS

The following Technical Specifications shall apply to the various items of work, which constitute the construction contemplated under this Contract.

Within the Technical Specifications of this Contract, the following definitions shall apply:

1. **Standard Specifications** shall mean the State of Connecticut, Department of Transportation, Bureau of Highways, "Specifications for Roads, Bridges, Facilities and Incidental Construction," Form 817, dated 2016 and its latest supplements. It should be noted that portions of the Standard Specifications that are referred to in this Contract's Technical Specifications, may be supplemented, revised and/or amended per these Technical Specifications. These Technical Specifications shall govern as modified. Within the referred to portions of the Standard Specifications wherein the following terms are used, they shall mean respectively:

Engineer, State, Department, Commissioner, CTDOT	City of Waterbury acting directly or through a duly authorized representative.
Inspector	City of Waterbury acting directly or through a duly authorized representative, assigned to make inspections of the work performed and materials furnished by the Contractor.
Laboratory	Laboratory designated by the City of Waterbury.

2. **Applicable Safety Code** shall mean the latest edition including any and all amendments, revisions, and additions thereto of the Federal Department of Labor, Occupational Safety and Health Administration's "Occupational Safety and Health Standards" and "Safety and Health Regulations for Construction," the State of Connecticut, Labor Department, "Construction Safety Code," or State of Connecticut "Building Code," whichever is the more stringent for the applicable requirement.

3. **Items**: Please note that these Technical Specifications may be particular to this contract and differ from the Standard Specifications. Technical Specifications are included on the following pages.

4. **Regulatory Agency(ies)**: Regulatory Agency(ies) shall be defined as the governing body or authority having jurisdiction over or responsibility for a particular activity within the scope of this Contract. They may be as specifically defined within the Special Conditions; otherwise the Contractor shall be responsible to determine same in the local area of the Contract.

5. **Bid Proposal Items**: Payment will only be made for items in the Bid Proposal. Other items may be included in the Standard Specifications but payment for items not listed in the Bid Proposal will be included in the cost of other items of work. Bid Proposal items shall have similar designations as the similar item in the Standard Specifications.

SECTION 05 52 00
METAL RAILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:

1. Furnish and install galvanized steel pipe handrails as described in Contract Documents.
   a. Exterior handrails.

B. Products Supplied But Not Installed Under This Section:

1. Anchoring sleeves in concrete.

C. Related Sections:

1. Section 32 13 16 – Cast-In-Place-Concrete
2. Section 32 13 13 – Concrete Paving and Curbing

1.2 REFERENCES

A. American Society For Testing And Materials:

1. ASTM A 36-00, 'Standard Specification for Carbon Structural Steel.'
2. ASTM A 53-01, 'Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.'
3. ASTM A 123-97a, 'Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.'
4. ASTM A 501-01, 'Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.'

1.3 SUBMITTALS

A. Shop Drawings: Show fabrication and installation of handrails and railings including plan, elevations, sections, details of components, and attachments to other elements of The Work.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Storage:

1. Store handrails and railing systems in clean, dry location, away from uncured concrete and masonry, and protected against damage.
2. Cover with waterproof paper, tarpaulin, or polyethylene sheeting. Allow for air circulation inside covering.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Handrails, Railings, And Balusters: 1-1/2 inch outside diameter galvanized steel pipe, meeting requirements of ASTM A 53 or galvanized steel tubing meeting requirements of ASTM A 501.

B. Rail Setting Grout:

1. Commercial nonshrink grout conforming to requirements of ASTM C 1107, Type B or Type C.

2. Approved Manufacturers:
   a. Normal Construction Grout A by W R Bonsal, Charlotte, NC (800) 334-0784 or (704) 525-1621. www.bonsal.com
   b. Advantage 1107 Grout by Dayton/Richmond, Miamisburg, OH (800) 745-3700 or (937) 866-0711. www.daytonrichmond.com
   c. NS Grout by Euclid Chemical Co, Cleveland, OH (800) 321-7628 or (216) 531-9222. www.euclidchemical.com
   d. 5 Star Special Grout 110 by Five Star Products Inc, Fairfield, CT (800) 243-2206 or (203) 336-7900. www.fivestarproducts.com
   e. Duragrout by L&M Construction Chemicals Inc, Omaha, NE (800) 362-3331 or (402) 453-6600. www.lmcc.com
   f. Masterflow 713 Pre-mixed Grout by Master Builders, Cleveland, OH (800) 628-9990 or (216) 831-5500 www.masterbuilders.com
   g. Sonogrout 10K by Sonneborn Building Products, Shakopee, MN (800) 496-6067 or (612) 496-6000. www.chemrex.com
   h. Tamms Grout 621 by TAMMS Industries, Mentor, OH (800) 218-2667 or (815) 522-3394. www.tamms.com
   i. CG-86 Grout by W R Meadows, Elgin, IL (800) 342-5979 or (847) 683-4500. www.wrmeadows.com

2.2 FABRICATION

A. General:

1. Preassemble railing systems in shop to greatest extent possible to minimize field splicing and assembly.
2. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
3. Grind smooth welded joints and buff welds to same appearance as remainder of railing. Repair galvanizing and cut pipe ends.
4. Return pipe ends of wall mounted handrails into wall.
5. Cap pipe ends of floor/ground mounted handrails and exterior handrails.
6. After fabrication, shop prime metal to be painted.

B. Form curves by bending pipe in jigs to produce uniform curvature for each configuration required. Maintain cylindrical cross-section of pipe throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of pipe.

C. Welded Connections:

1. Fabricate railing system and handrail connections by welding.
2. Weld corners and seams continuously to comply with following:
   a. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   b. At tee and cross intersections, notch ends of intersecting members to fit contour of pipe to which end is joined and weld all around.
   c. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and so contours of welded surfaces match adjacent surfaces.

D. Brackets, Flanges, Fittings, And Anchors:

1. Provide standard wall brackets, flanges, miscellaneous fittings, and anchors for connection of handrails and railings to other construction.
2. Provide inserts and other anchorage devices for connecting handrails and railing systems to concrete or masonry work.

2.3 FINISH

A. Hot dipped galvanized finish.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Touch up field welds to match pre-finished material.

END OF SECTION

SECTION 11 68 00
PLAYFIELD EQUIPMENT & STRUCTURES

PART 1 - GENERAL

1.1 WORK INCLUDED:

A. Furnish labor, material and equipment necessary for the provision and installation of the playground Equipment, structure or modular unit as shown on the drawings and specified herein.

B. Work shall include but not limited to the following: excavation, layout, and the provision and installation of playground equipment, structure or modular unit in accordance with the manufacturer's installation instructions, including all appurtenances and accessories as required for a full and complete installation

1.2 RELATED SECTIONS:

A. Section 32 18 16 Playbound Poured-In-Place

B. Section 32 13 13 Concrete Paving and Curbing

C. Section 32 31 14 Color Chain Link Fence & Gates

1.3 PLAYGROUND SAFETY STANDARDS AND QUALITY ASSURANCE:

A. Form 817 - State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition and latest supplements shall be used for material compliance and execution of the work in this section.

B. Workers: All workers shall be thoroughly trained and experienced in the necessary crafts, and completely familiar with the specified requirements and the methods needed for proper performance of the work of this section.

a. Equipment must be installed by a manufacturer-certified installer and must be installed in accordance with the manufacturer's installation instructions. Installation crew leader must be CPSI-certified.

C. All products shall bear the certification seal of the International Play Equipment Manufacturers Association (IPEMA). All designs shall meet or exceed the 2016 Connecticut State Building and Fire Safety Codes [CSBC & CSFSC]; 2009 A117.1 Accessible and Usable Buildings and Facilities [ICC/ANSI]; the 2010 ADA Standards for Accessible Design [504/ADA]; and, the U.S Consumer Product Safety Commission – 2010 Public Playground Safety Handbook [PPSH]. All manufacturers must be ISO 9001 certified.

D. The equipment shall be inspected after installation by a CPSI not employed by the installer and signed off by said CPSI before the playground is opened for first use.

E. Reference Standards

a. ASTM: American Society for Testing and Materials

b. CPSC: Consumer Product Safety Commission

c. IPEMA: International Playground Equipment Manufacturers Association

d. ADA: Americans with Disabilities Act

e. ISO: International Organization for Standardization

f. CPSI: Certified Playground Safety Inspector

F. Playground Equipment Manufacturer's Warranty: The equipment manufacturer shall warrant material and workmanship against defects, from the date of manufacturer's invoice, for the period of time as follows:

a. LIMITED ONE HUNDRED (100) YEAR WARRANTY On all PlayBooster®, PlayShaper® and PlaySense® aluminum posts, stainless steel fasteners, clamps, beams and caps, against structural failure due to corrosion/natural deterioration or manufacturing defects, and on PlayBooster, Evos, and Weevos, steel posts and arches against structural failure due to material or manufacturing defects.

b. LIMITED FIFTEEN (15) YEAR WARRANTY On all plastic components (including TuffTimbers edging), all steel components (except 100-year steel posts), Mobius® climbers, decks and TenderTuff, coatings (except Wiggle Ladders, Chain Ladders and Swing Chain) against structural failure due to material or manufacturing defects. TuffTurf® tiles against material or manufacturing defects.

c. LIMITED EIGHT (8) YEAR WARRANTY On Aeronet, climbers and climbing cables against defects in materials or manufacturing defects. On CoolToppers® fabric against failure from significant fading, deterioration, breakdown, mildew, outdoor heat, cold or discoloration. This warranty is limited to the design loads as stated in the specifications found in the technical information.

d. LIMITED THREE (3) YEAR WARRANTY On all other parts, i.e.: CableCore® products, swing seats and hangers, grills, Mobius climber handholds, Wiggle Ladders, Chain Ladders and Swing Chain, Track Ride trolleys and bumpers, all rocking equipment including Sway Fun® gliders, PVC belting material, HealthBeat, hydraulic cylinders, Seesaws, Wiggle Ring Bridge, etc., against failure due to corrosion/natural deterioration or manufacturing defects

G. Playground Installer's Warranty

a. The Contractor shall guarantee installation workmanship for a period of one year from the date of Substantial Completion of the Project. The Contractor shall be responsible for coordinating manufacturer material warranty items with the manufacturer/distributor and for the installation of replacement material(s) at no additional cost to the Owner.

b. Provide copy of Contractor's installation warranty on company letterhead.

1.4 SUBMITTALS:

A. Product Data: The Contractor shall submit within 10 calendar days after receipt of Notice to Proceed complete sets of the material and equipment submittals, including:

a. Play equipment manufacturer and manufacturer's representative's name(s) and address(es);

b. Plan view drawings with model numbers, descriptive labels (including component names,) deck heights, and notations of compliance with CPSC, ASTM F1487-01 and ADA;

c. Detailed component list with model numbers and catalog descriptions;

d. Color chart;

e. Written material specifications for all components;

f. IPEMA certification certificate from the IPEMA website;

g. Copy of manufacturer's warranty in certificate format;

h. Copy of manufacturer's ISO 9001 Certification.

B. Approval of the submittals shall be the Contractor's authorization to order the required material and equipment. There will be no deviation from the approved submittals without the written authorization of the Owner's representative.

PART 2 - PRODUCTS

2.1 MATERIALS:

A. The layout shown in the plan view is based upon equipment and measurements from Landscape Structures. Acceptable manufacturers include Landscape Structures or equivalent. Other products may be considered equal if all of the parameters, specifications and design intent of the drawings are met. M.E. O'Brien and Sons can be contacted at 203-805-4325 (Phone) or PeterWallace@obrienandsons.com (Email)

B. Design and Fabrication: Playground equipment, structure or modular unit submitted for consideration shall be equivalent in design, layout, deck size, post size, clamping/fastening system, deck/slide/climber height, ADA accessibility, appearance, color and construction detail to playground equipment specified in the drawings. Reasonable variations in size/height (no more than +/- 10%) and manufacturer's standard colors may be allowed at the Owner's discretion. Color schemes are to match as closely as possible to the originally specified colors. Play value and safety features of components must be equal or superior to specified design as judged by the Owner or Owner's representative.

C. Modification: Any expense of modification, adjustment or revision required to ensure compliance of furnished equipment to specified equipment and playground design shall be the sole expense and responsibility of the Contractor.

D. EQUIPMENT: See drawings for type, style, configuration, size and height of playground equipment, structure or modular unit to be provided.

E. COLOR SCHEDULES: See drawings for the color schedules of the various elements of playground equipment, structure or modular unit to be provided.

F. SPECIFICATIONS/COMPONENTS: Designs and specifications are based upon equipment from Landscape Structures. Equivalents will be considered against this standard of quality and design and will be determined at the Owner's discretion.

G. COMPONENT LIST:

Bucks Hill Elementary School

QTY	NO.	DESCRIPTION
1	201993A	JigJag Climber Double w/2 Firepoles Aluminum Posts and DB Only[1]
1	158997A	Pod Climber 10" DB
1	120711A	Pod Climber 16" DB
1	120712A	Pod Climber 24" DB
2	120710A	Pod Climber 8" DB

3	158105A	Wobble Pod DB Only	
1	100041A	Curved Balance Beam DB	
1	174011B	5000 Series Swing Frame	8' Beam Height Painted Legs[1]
2	177323B	5000 Series Swing Frame	Additional Bay 8' Beam Height Painted Legs[1]
6	174018A	Belt Seat	ProGuard Chains for 8' Beam Height
2	111345A	Bridge/Ramp Transition Bracket	
1	184490C	Swiggle Stix Bridge w/o Deck Connections DB	
1	193171C	SwiggleKnots Bridge w/o Deck Connections	

DB Only

1	193173C	TightRope Bridge	w/o Deck Connections
1	176081A	Canyon Climber	
1	184605A	O-Zone 3-Ring Climber	

Ground to Ground DB

1	165445A	Ring Tangle w/Handloop Equal Decks[1]
1	164145A	Rock-N-Ring Panel Ground Level
1	193176A	Boogie Board DB Only
1	166809A	E-Pod Seat
2	120818A	Playstructure Seat
1	193170A	LolliLadder w/2 E-Pods
1	184489C	Overhead Trekker Ladder w/o Deck Connections DB
4	111404F	108"Alum Post DB
1	111404R	108"Steel Post DB 42" BURY
1	111404E	116"Alum Post DB
4	111404C	132"Alum Post DB
1	111404J	76"Alum Post DB
7	111404H	92"Alum Post DB
1	189313A	Rushwinder DB Right

Chase Elementary School

QTY	NO.	DESCRIPTION
1	156435A	Hemisphere Climber DB Only[1]
1	201993A	JigJag Climber Double w/2 Firepoles Aluminum Posts and DB Only[1]
1	158998A	Pod Climber 20" DB
1	120710A	Pod Climber 8" DB
2	158105A	Wobble Pod DB Only
1	100041A	Curved Balance Beam DB
2	111345A	Bridge/Ramp Transition Bracket
1	184490C	Swiggle Stix Bridge w/o Deck Connections DB
1	193171C	SwiggleKnots Bridge w/o Deck Connections

DB Only

1	193173C	TightRope Bridge w/o Deck Connections
1	176081A	Canyon Climber
1	184605A	O-Zone 3-Ring ClimberGround to Ground DB
1	193176A	Boogie Board DB Only
3	166809A	E-Pod Seat
1	193174A	Sol Spinner DB
1	184489C	Overhead Trekker Ladder w/o Deck Connections DB
5	111404F	108"Alum Post DB
1	111404R	108"Steel Post DB 42" BURY
3	111404C	132"Alum Post DB
1	111404O	132"Steel Post DB 42" BURY
1	111404N	140"Steel Post DB 42" BURY
3	111404H	92"Alum Post DB
1	189313A	Rushwinder DB Right

Generali Elementary School

QTY	NO.	DESCRIPTION
1	219510A	GeoPlex Climber Wall w/Alum Posts DB
1	158997A	Pod Climber 10" DB
2	120711A	Pod Climber 16" DB
1	120712A	Pod Climber 24" DB
3	120710A	Pod Climber 8" DB
3	158105A	Wobble Pod DB Only
2	111345A	Bridge/Ramp Transition Bracket
1	184490C	Swiggle Stix Bridge w/o Deck Connections DB
1	193171C	SwiggleKnots Bridge w/o Deck Connections
	DB Only	
1	193173C	TightRope Bridge w/o Deck Connections
1	176081A	Canyon Climber
1	158678A	Climbing Wall Alum DB
1	184605A	O-Zone 3-Ring Climber
	Ground to Ground DB	
1	165445A	Ring Tangle w/Handloop Equal Decks1
1	173567B	Marble Panel Ground Level
1	193176A	Boogie Board DB Only
1	166809A	E-Pod Seat
2	120818A	Playstructure Seat
1	193174A	Sol.Spinner DB
1	193170A	LolliLadder w/2 E-Pods
1	184489C	Overhead Trekker Ladder w/o Deck Connections DB
3	111404F	108"Alum Post DB
1	111404R	108"Steel Post DB 42" BURY
1	111404E	116"Alum Post DB
1	111404D	124"Alum Post DB
4	111404C	132"Alum Post DB
2	111404O	132"Steel Post DB 42" BURY
1	111404I	84"Alum Post DB
6	111404H	92"Alum Post DB
1	189313A	Rushwinder DB Left

Walsh Elementary School

QTY	NO.	DESCRIPTION
1	120711A	Pod Climber 16" DB
2	120712A	Pod Climber 24" DB
1	120710A	Pod Climber 8" DB
3	158105A	Wobble Pod DB Only
1	100041A	Curved Balance Beam DB
1	173592A	Oodle Swing DB Only1
2	111345A	Bridge/Ramp Transition Bracket
1	184490C	Swiggle Stix Bridge w/o Deck Connections DB
1	193171C	SwiggleKnots Bridge w/o Deck Connections
DB Only		
1	193173C	TightRope Bridge w/o Deck Connections
1	176081A	Canyon Climber
1	184605A	O-Zone 3-Ring Climber Ground to Ground DB
1	165445A	Ring Tangle w/Handloop Equal Decks1

1	193176A	Boogie Board DB Only
4	166809A	E-Pod Seat
2	120818A	Playstructure Seat
1	193174A	Sol Spinner DB
1	193170A	LolliLadder w/2 E-Pods
1	184489C	Overhead Trekker Ladder w/o Deck Connections DB
2	111404F	108"Alum Post DB
1	111404R	108"Steel Post DB 42" BURY
2	111404E	116"Alum Post DB
4	111404C	132"Alum Post DB
2	111404O	132"Steel Post DB 42" BURY
10	111404H	92"Alum Post DB
1	189313A	Rushwinder DB Right

PART 3 - EXECUTION

3.1 TRAFFIC AND LINE MARKINGS:

A. Instructions: Explicit, printed installation instructions, written in English, shall be provided by the manufacturer, which shall include detailed, scaled plan views, elevations, and footing drawings and details when applicable, as well as sequential assembly instructions to assure proper installation of the playground equipment, structure or modular unit.

B. Equipment must be installed by a manufacturer-certified installer and must be installed in accordance with the manufacturer's installation instructions. Installation crew leader must be CPSI-certified. If not installed by a manufacturer-certified installer, the equipment shall be inspected after installation by a CPSI not employed by the installer and signed off by said CPSI before the playground is opened for first use.

C. Close Out: Contractor shall provide the Owner with one copy of complete manufacturer's installation instructions and maintenance kit if provided. Most manufacturers send at least two sets of installation manuals with each order. Additional sets of installation instructions should be purchased from the manufacturer if originals are lost or damaged. It is the Contractor's responsibility to secure the installation instructions from the installer. Landscape Structures mails one complete set of installation instructions directly to the Owner, and the Contractor shall not be required to supply additional sets to the Owner.

D. Clean-up: The site shall be kept clean and free of tools, trash, debris and installation materials on a daily basis. Material may be stored on site during installation with appropriate protective measures and approval by the Owner's representative.

END OF SECTION
***

SECTION 311000
SITE CLEARING

PART 1 - GENERAL

1.1 PROJECT INCLUDES

A. All materials, equipment, and services necessary to furnish and deliver work of this Section as shown on the Drawings, as specified, and as required by job conditions including, but not limited to the following:

1. Installation and removal of a temporary construction entrance.
2. Protection of existing trees, vegetation, landscaping materials, and site improvements not scheduled for clearing, which might be damaged by construction activities.
3. Clearing and grubbing of stumps, hedges, vegetation, debris, rubbish, designated trees, and existing site improvements.
4. Removal of existing play structures and site amenities.
5. Topsoil stripping and stockpiling.
6. Temporary installation and removal of erosion controls.
7. Test pits, as needed.
8. Protection of existing bituminous concrete and concrete pavement to remain, adjacent wetlands and flood plain, school buildings, utilities, fencing.

1.2 RELATED WORK SPECIFIED IN OTHER SECTIONS

A. Earth Moving: Section 02200

1.3 QUALITY ASSURANCE

A. Codes and Standards: All materials and construction methods shall be in compliance with the specifications outlined in the Form 817 – State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition, unless otherwise specified herein.

B. Workmen: All workmen shall be thoroughly trained and experienced in the necessary crafts, and completely familiar with the specified requirements and the methods needed for proper performance of the work of this section.

C. Submittals
   a. Sedimentation and erosion control measures.

1.4 JOB CONDITIONS

A. Protection of Existing Improvements: Provide protections necessary to prevent damage to existing improvements indicated to remain in place. Protect improvements on adjoining properties and on Owner's property. Restore damaged improvements to their original condition, as acceptable to property owners.

B. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
   a. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
   b. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.

C. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicated.

a. Utility Locator Service: Notify utility locator service, "Call Before You Dig" at 1-800-922-4455 for area where Project is located prior to site clearing.

D.

1.5 EXECUTION

A. Test Pits: Locate existing underground utilities in areas of excavation work. If utilities are indicated to remain in place, provide adequate means of support and protection during test pit excavation.

Test shall be performed, as needed. The Contractor may conduct other test pits to verify the location of subsurface utilities.

Should uncharted, or incorrectly charted, piping or other utilities be encountered during excavation, consult utility owner immediately for directions.

Do not interrupt existing utilities serving facilities except when permitted in writing by the Engineer and then only after acceptable temporary utility services have been provided.

B. Site Clearing and Grubbing: Remove trees, shrubs, grass and other vegetation improvements, or obstructions as required to permit installation of new construction. Remove similar items elsewhere on site or premises as specifically indicated. "Removal" includes excavating and off-site disposal of stumps, roots, and concrete footings.

Cut minor roots and branches of trees indicated to remain in a clean and careful manner, where such roots and branches obstruct installation of new construction.

Fill depressions caused by clearing and grubbing operations with approved soil material, unless further excavation or earthwork is indicated.

C. Topsoil:

Requirements for topsoil are specified in paragraph 2.3 of Section 32 92 00 "Turfs and Grasses."

Topsoil is defined a friable clay loam surface soil found in a depth of not less than four (4) inches. Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones, and other objects over two (2) inches in diameter, without weeds, roots, and other objectionable manner.

Strip topsoil to whatever depths encountered in a manner to prevent intermingling with underlying subsoil or other objectionable material.

Remove heavy growth of grass from areas before stripping.

Where existing trees are indicated to remain, leave existing topsoil in place within drip lines to prevent damage to root system.

Stockpile topsoil in storage piles in areas indicated or directed. Construct storage piles to provide free drainage of surface water. Cover piles to prevent erosion, if required.

D. Clean-up:

Keep grounds clean of rubbish caused by work and of unused materials at all times.

Dispose of cleared materials and rubbish off-site in a legal manner.
Remove unused materials and equipment. Leave area clean.

Do not store hazardous or flammable materials or liquids on site, unless stored in approved containers, properly labeled and approved by the owner.

PART 2 - PRODUCTS

2.1 SEDIMENT AND EROSION CONTROL MEASURES

a. Materials: As specified as on the Contract Drawings.

PART 3 - EXECUTION

Not used.

END OF SECTION

SECTION 31 20 00
EARTH MOVING

PART 1 - GENERAL

1.1 PROJECT INCLUDES:

A. All materials, labor, equipment, and services necessary to perform the work of this section as shown on the Drawings, as specified, and as required by job conditions, including, but not limited to, the following:

B. General excavation and backfill for structures and other site improvements including the installation of bituminous walkway and playground equipment and surfacing.

C. Preparing of subgrade.

D. Trench excavation and backfill for utilities and conduits.

E. Rock excavation, mass, and trench, if required

F. Soil compaction control.

G. Site grading.

H. Fill from off-site sources, if required.

I. Removal of excess materials off-site, if required.

J. Legal disposal of unsuitable materials off-site, if required.

K. Topsoil from off-site sources, if required.

L. Topsoil spreading and fine grading.

1.2 RELATED WORK

Storm Drainage: Section 02720

1.3 DEFINITIONS

A. Excavation: Removal of material encountered to subgrade elevations indicated and subsequent disposal of materials removed.

In areas where rock is encountered, continuous and individual footing excavation shall consist of over-excavating a minimum of 8" below bottom of footings, and a minimum of 1'-0" horizontally around perimeter of footings.

B. Unauthorized Excavation: Removal of materials beyond indicated subgrade elevations or dimensions without specific direction of the Engineer. Unauthorized excavation shall be at the Contractor's expense.

Under footings, foundation bases, or retaining walls, fill unauthorized excavation by extending indicated bottom elevation of footing or base to excavation bottom, without altering required top elevation. Lean concrete fill may be used to bring elevations to proper position, when acceptable to the Engineer.

In locations other than those above, backfill and compact unauthorized excavations as specified for authorized excavations of same classification, unless otherwise directed by the Engineer.

C. Subgrade: The undisturbed soil or compacted soil layer at footing bearing elevations or immediately below the subbase at slabs, walks, paving, and playground surfaces.

D. Structure: Buildings, foundations, slabs, tanks, curbs, or other manmade stationary features occurring above or below ground surface.

E. Unsuitable Material: On-site materials which are of improper gradation to allow adequate compaction, are organically contaminated or have been identified as improper for the intended use by the Engineer.

1.4 SUBMITTALS

A. Test Reports: Submit the following reports directly to Owner from the testing services, with copy to Contractor:

1. Gradation test reports on borrowed material.
2. Field reports; in-place soil density tests.
3. One optimum moisture-maximum density curve for each type of soil compacted.
4. Free-draining materials

B. The Contractor shall submit samples of all materials from off-site sources to the testing laboratory at least ten (10) calendar days prior to use in the work. The Contractor shall not deliver or use any materials for off-site sources until written approval is received from the Engineer based upon test results showing compliance with these specifications.

On-site excavated material, including fill and topsoil, if available, may be submitted for testing.

1.5 QUALITY ASSURANCE

A. Codes and Standards: Perform earthwork in compliance with applicable requirements of authorities having jurisdiction.

Form 817 – State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 shall be used for materials compliance and execution of the work in this section.

B. Compaction:

Under structures, building slabs, steps, pavements, and walkways, 95 percent maximum density, ASTM D 1557. Under lawns or unpaved areas, 90 percent maximum density, ASTM D 1557.

C. Grading Tolerances Outside Building Lines:

Lawns, unpaved areas, and walks, plus or minus 1 inch (25 mm).
Pavements, plus or minus 1/2 inch (13 mm).

1.6 PROJECT CONDITIONS

A. Notify Owner if unexpected subsurface conditions are encountered and discontinue work in area until Owner provides notification to resume work.

B. Examine the substrata of the areas and ascertain the conditions under which earthwork is to be performed/installed. Do not proceed until all unsatisfactory conditions, if any, have been corrected to the satisfaction of the owner.

C. Inform Call Before You Dig (1-800-922-4455) before beginning excavations. Do not proceed until clearance is received.

D. Existing Utilities: Locate existing underground utilities in areas of excavation work. Provide adequate means of support and protection during earthwork operations. Test pits may be necessary, see Section 02100, Site Preparation.

E. Should uncharted or incorrectly charted piping or other utilities be encountered, consult utility owner immediately for directions. Cooperate with Owner and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility owner.

F. Do not interrupt existing utilities serving facilities occupied by Owner or others during occupied hours except when permitted and then only after acceptable temporary utility services have been provided.

G. Provide adequate notice to the Owner, and receive written notice to proceed before interrupting utility.

H. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights.

I. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.

J Protect benchmarks and existing structures, roads, sidewalks, paving, and curbs against damage from equipment and vehicular or foot traffic.

K. Provide necessary safeguards to prevent accidents, to avoid all necessary hazards, and to protect the public, the work, and the property at all times, including Saturdays, Sundays, and holidays.

L. Contractor shall be responsible for any and all damages, which may arise or occur to any party whatsoever by reason of the neglect in providing proper lights, guards, barriers, or any other safeguards to prevent damage to property, life, and limb.

PART 2 - PRODUCTS

A. General Fill: Select excavated material, obtained from the construction site or imported, free from roots, wood, trash, broken rocks or stones in excess of 5" and other organic material, and approved suitable for use as general fill.

B. Granular Structural Fill: Select excavated gravel or stone materials free of organic material, loam, trash, snow, ice, frozen soil, and other objectionable material, conforming to the gradation requirements as follows:

Sieve Size	% Passing (by weight)
3½"	100%
3"	20-100%
2"	40-100%
1½"	50-90%
No. 4	30-90%
No. 10	25-80%
No. 40	10-50%
No. 200	0-10%

C. Crushed Gravel: Broken or crushed stone conforming to the requirements of Section M.01.01 No. 8 for Coarse Aggregate as described in the State of Connecticut DOT Form 817, except reclaimed material is not permitted:

D. Filter Fabric: Conform to CTDOT Form 817, 2016, Section 7.55 and Subarticle M.08.01-19 Tencate Geosynthetics North America 140 Filter Fabric or approved equal.

E. Free Draining Material: Conform to CTDOT Form 817, 2016, Section M.02.07

F. Playground Safety Fiber (Engineered Wood Fiber (EWF)):

- Shall be Fibar System 212 with flat drains or approved equivalent.
- Drainage stone shall be No. 67 crushed stone and conform to CTDOT Form 817, 2016, Section M.01.01. No reclaimed aggregate.
- Hardwood fiber must meet or exceed C.P.S.C., A.D.A., C.S.A., ASTM F-1292-99, and ASTM F-1951 guidelines.
- Material shall be a randomly sized mix of hardwood fibers, approximately ten times longer than wide.
- All wood fiber playground surfacing shall be of virgin native American hardwoods.
- Wood fiber absolutely must not contain any recycled wood products or any wood containing paint or other treatment.
- Material must not contain any twigs, bark, leaf debris, or other organic material.
- Standard wood chips or bark mulch will not be acceptable.
- Wood fiber must be wheelchair accessible as required by the Americans with Disabilities Act and have been tested to the guidelines of ASTM PS-83 or ASTM F-1951 for accessibility.
- Hardwood fiber must have a written 20-year limited warranty. A copy must be attached to the bid.
- The manufacturer must have $15 million dollars in product liability insurance.
- Actual manufacturing site must be specified in the bid.
- Manufacturing site specific test data (see below) and a sample from the specific manufacturing site must be submitted for approval.
- Manufacturing site specific test data must be supplied from a certified laboratory as follows:
  1. A copy of the hardwood fiber material's test results showing its shock absorbing properties. This is in accordance with the procedures outlined in ASTM F-1292-99, "Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment" and per ASTM F-355-95, Procedure C. The data must show less than 120 G's maximum and less than 800 HIC at a 12 inch depth with a 12 ft fall height, ASTM F-1292-99. Again, these tests must be based on material from the designated manufacturing site.
  2. Coefficient of permeability must be shown greater than 0.6 CM/SEC, ASTM D-2434.
  3. Moisture absorption of material be no greater than 150% by weight, ASTM D-422.
  4. Mechanical sieve analysis, ASTM C-127.

0.750 inches	99% min.	100% ma.
0.375 inches	85% min.	100% max.
#60	0% min.	15% max.

- Material will be supplied only from the designated manufacturing facility. It is to be delivered in the exact amount and quantity, to the specific site designated, and on the date specified.
- Material must be available for delivery within 72 hours of order.

PART 3 - EXECUTION

3.1 EXCAVATION - GENERAL:

A. Earth Excavation: Excavation of all materials of any kind, except as classified as rock excavation, trench rock excavation, and trench earth excavation.

B. Trench Earth Excavation: Excavation of individual piers, footings, catch basins, pits, manholes, and including the excavation of all trench materials of any kind except as classified as trench rock excavation. No tunneling will be allowed.

C. Mass Rock Excavation: shall include the excavation of hard and solid ledge, boulders in excess of one cubic yard in volume and rock hard cementitious deposits, the removal of which requires the use of drilling, barring, wedging, and/or blasting. For the purposes of payment, rock shall be defined as material which cannot be excavated with equipment rated at less than 120 HP flywheel power developing at least 40,000 pounds breakout force measured in accordance with SAE S732C. Hard and compact materials such as cemented-gravel, glacial till, and relatively soft or disintegrated rock that can be removed without continuous and systematic drilling and blasting will not be considered as mass rock even though intermittent drilling and blasting may be performed to increase production.

D. Trench and Rock Excavation: shall include the removal of solid rock, ledge, shale, or boulders in excess of one-half cubic yard in volume encountered in excavating trenches or pits which cannot be removed by power equipment without wedging, drilling, and/or blasting. For the purposes of payment, rock shall be defined as material which cannot be excavated with equipment rated at less than 120 HP flywheel power developing at least 40,000 pounds breakout force measured in accordance with SAE S732C. Trenches in excess of 13'-0" in width are classified as Mass Rock Excavation.

E. Rock Payment Lines: Rock payment lines are limited to the following:

1. One foot six inches outside of concrete work for which forms are required, except footings.
2. One foot outside the perimeter of footings.
3. Near outside dimensions of concrete work where no forms are required.
4. The maximum rock slope shall be six units vertical to one unit horizontal.
5. In pipe trenches, one foot below the invert elevation of the pipe and two foot wider than the inside diameter of the pipe, but not less than a three-foot minimum trench width.
6. Under footings: 8" below bottom of footing bearing.
7. Under slabs on grade, 1'-0" below bottom of slab.
8. Under proposed pavements, 6" below top of subgrade elevations.

F. No payment will be made for rock removal beyond specified rock payment lines.

G. Unsuitable Material: If unsuitable materials as defined by the Engineer are encountered at required subgrade elevations, carry excavations deeper and replace excavated material with other material as directed by the Engineer. Remove unsuitable materials from the site and legally dispose of them.

H. Removal of unsuitable material and its replacement as directed, provided it is not due to fault or neglect of the Contractor, will be paid on the basis of contract conditions relative to changes in work. Where the removal of unsuitable soil material is due to the fault or negligence of the Contractor in his performance of earthwork and site grading operations, excavate the resulting unsuitable material and replace with compacted satisfactory material as required, at no additional cost to the Contract Sum.

I. Stability of Excavations: General - Comply with local codes, ordinances, and requirements of agencies having jurisdiction.

1. Slope sides of excavations to comply with local codes, ordinances, and requirements of agencies having jurisdiction. Shore and brace where sloping is not possible because of space restrictions or stability of material excavated. Maintain sides and slopes of excavations in safe condition until completion of backfilling.

2. Slope the sides of excavations over 5' deep to the angle of repose of the material excavated, but not steeper than 1½ horizontal to 1 vertical. Where sloping is not possible either because of space restrictions or stability of material excavated, shore and brace in accordance with requirements of authorities having jurisdiction. In addition, provide 5' high snow fence around these areas as protection. Temporary slopes should be covered with plastic sheeting or other suitable cover where necessary to prevent the surface from drying or eroding.

3. Maintain sides and slopes of excavation in a safe condition until completion of backfilling, by scaling, benching, shelving, or bracing.

4. Take precautions to prevent slides or cave-ins when excavations are made in locations adjacent to backfilled excavations, and when sides or excavations are subject to vibrations from vehicular traffic or the operation of machinery, or from any other source.

5. Provide minimum requirements for trench shoring and bracing to comply with ANSI A10.1 "Safety for Building Construction", and with local codes and authorities having jurisdiction.

J. Dewatering: Prevent surface water and subsurface or ground water from flowing into excavations and from flooding project site and surrounding area.

1. Do not allow water to accumulate in excavations. Remove water to prevent softening of foundation bottoms, undercutting footings, and soil changes detrimental to stability of subgrades and foundations. Provide and maintain pumps, well points, sumps, suction and discharge lines, and other dewatering system components necessary to convey water away from excavations.

2. Establish and maintain temporary drainage ditches and other diversions outside excavation limits to convey rain water and water removed from excavation limits to collecting or runoff areas. Do not use trench excavations as temporary drainage ditches.

K. Excavation of Trenches for Pipes and Conduit: Excavate trenches to uniform width, sufficiently wide to provide ample working room and a minimum of six to nine inch clearance on both sides of pipe or conduit, unless otherwise indicated on drawings.

1. Excavate trenches and conduit to depth indicated or required to establish invert elevations and to support bottom of pipe or conduit on undisturbed soil. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line.

2. If rock is encountered, carry excavation 12" below required elevation and backfill a six inch layer of fine aggregate fill prior to installation of pipe.

3. For pipes or conduit less than six inches in nominal size, and for flat-bottomed, multiple-duct conduit units, do not excavate beyond indicated depths. Hand excavate bottom cut to accurate elevations and support pipe or conduit on undisturbed soil.

4. For pipes and equipment six inches or larger in nominal size, shape bottom of trench to fit of pipe for 90 degrees (bottom 1/4 of the circumference). Fill depressions with tamped fine aggregate backfill. At each pipe joint, dig bell holes to relieve pipe bell of loads and ensure continuous bearing of pipe barrel on bearing surface.

L. Excavation for Pavements: Where rock is encountered at required top of six inches of stone fill over the surface of the exposed rock.

M. Cold Weather Protection: Protect excavation bottoms against freezing when atmospheric temperature is less than 35°F.

1. Protect bottom of excavations and soil around and beneath foundations from frost.

N. Backfill and Fill: General - place acceptable soil material in layers to required.

1. Under footings, pits, trenches, and other structures, use granular fill.
2. Under footings in rock excavations, use stone fill.
3. Under slabs on grade, place slab sub-base.
4. Behind wall structures, use stone fill with a 12" surface layer of topsoil.
5. Under piping, conduit, and equipment, use fine aggregate fill where required over rock bearing surface and for correction of unauthorized excavation. Shape excavation to fit bottom 90 degrees of cylinder.
6. At perforated drain piping, surround pipe with 6" minimum stone fill enveloped in filter fabric.
7. Backfill trenches with concrete where trench excavations pass within 18 inches of column or wall footings and that are carried below bottom of such footings or that pass under wall footings. Ensure trenching does not interfere with normal 45 degree bearing splay of any foundation. Place concrete to level of bottom of adjacent footing.
8. Backfill excavations as promptly as work permits, but not until completion of the following:

   a. Acceptance of construction below finish grade including, where applicable, damp-proofing, waterproofing, and perimeter insulation.
   b. Inspection, testing, approval, and recording locations of underground utilities.

9. Removal of shoring and bracing, and backfilling of voids with satisfactory materials.
10. Removal of trash and debris from excavation.
11. Permanent or temporary horizontal bracing is in place on horizontally supported walls.

O. Placing and Compaction: Ground surface preparation - remove vegetation, debris, unsatisfactory soil materials, obstructions, and deleterious materials from ground surface prior to placement of fills. Plow, strip, or break up sloped surfaces steeper than one vertical to four horizontal so that fill material will bond with existing surface.

When existing ground surface has a density less than that specified in this section for particular area classification, break up ground surface, pulverize, moisture condition as required to achieve optimum moisture content, and compact to required depth and percentage of density. For slab on grade, proof roll existing ground surface with a ten-ton roller.

Place backfill and fill materials in layers not more than eight inches in loose depth for material compacted by heavy compaction equipment, and not more than four inches in loose depth for material compacted by hand-operated tampers.
Before compaction, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum dry density or relative dry density for each area classification. Do not place backfill or fill material on surfaces that are muddy, frozen, or contain frost or ice.

Place backfill and fill materials evenly adjacent to foundations or other structures to required elevations. Prevent wedging action of backfill against structures by carrying material uniformly around structures to approximately same elevation in each lift.
Control soil and fill compaction, providing minimum percentage of density specified for each area classification indicated below. Correct improperly compacted areas or lifts as directed by Engineer if soil density tests indicate inadequate compaction.

Percentage of maximum density requirements: Compact soil to not less than the following percentages of maximum density, in accordance with ASTM D 1557:

Under structures, building slabs, steps, and pavements, compact top 12 inches of sub-grade and each layer of backfill or fill material to 95% maximum density.

Under and to five feet outside of site pavements: Compact top 12" of subgrade and each layer of backfill or fill material to 95% of maximum density.

In trenches and pits: Compact top 12" of subgrade and each layer of backfill or fill material to 95% of maximum density.

Behind wall structures, compact each layer of backfill or fill material to a minimum of 90%, but not more than 92% of maximum density.

In landscaped areas: Compact top six inches of subgrade and each layer of backfill or fill material to 90% of maximum density.

P. Moisture Control: Where subgrade or layer of soil material must be moisture conditioned before compaction, uniformly apply water to surface of subgrade or layer of soil material. Apply water in minimum quantity as necessary to prevent free water from appearing on surface during or subsequent to compaction operations.

Remove and replace, or scarify and air dry, soil material that is too wet to permit compaction to specified density.

Stockpile or spread soil material that has been removed because it is too wet to permit compaction. Assist drying by discing, harrowing, or pulverizing until moisture content is reduced to a satisfactory value.

Grading: General - the Drawings indicate finished elevations. The grading to be performed consists of establishing finished grade elevations as shown on the Drawings. The Contractor shall import additional materials if on-site quantities are insufficient and/or shall dispose of excess materials off-site as required at no additional cost to the Contract Sum.

Uniformly grade areas within limits of grading under this section, including adjacent transition areas. Smooth finished surfaces within specified tolerances, compact with uniform levels or slopes between points where elevations are indicted, or between such points and existing grades.

Finish surfaces free from irregular surface changes, and as follows:
Landscaped areas: Finish areas to receive topsoil to within not more than 0.10' above or below required subgrade elevations.

Walks: Shape surface of areas under walks to line, grade, and cross section, with finish surface not more than 0.04'/1/2" above or below required subgrade elevation.

Compaction: After grading, compact subgrade surfaces to the depth and indicated percentage of maximum density for each area classification.

END OF SECTION

SECTION 31 50 00
EXCAVATION SUPPORT AND PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes temporary excavation support and protection systems.

B. Related Section
   1. Section 31 20 00 Earth Moving

1.3 PERFORMANCE REQUIREMENTS

A. Design, furnish, install, monitor, and maintain excavation support and protection system capable of supporting excavation sidewalls and of resisting soil and hydrostatic pressure and superimposed and construction loads.
   1. Delegated Design: Design excavation support and protection system, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

1.4 SUBMITTALS

A. Shop Drawings: For excavation support and protection system, designed by a Professional Engineer licensed in the State of Connecticut.

B. Delegated-Design Submittal: For excavation support and protection system indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 QUALITY ASSURANCE

A. Pre-installation Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

A. Survey Work: Engage a qualified land surveyor or professional engineer to survey adjacent existing buildings, structures, and site improvements; establish exact elevations at fixed points to act as benchmarks. Clearly identify benchmarks and record existing elevations.
   1. During installation of excavation support and protection systems, regularly resurvey benchmarks, maintaining an accurate log of surveyed elevations and positions for comparison with original elevations and positions. Promptly notify Architect if changes in elevations or positions occur or if cracks, sags, or other damage is evident in adjacent construction.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Provide materials that are either new or in serviceable condition.

B. Structural Steel: ASTM A 36/A 36M, ASTM A 690/A 690M, or ASTM A 992/A 992M.

C. Steel Sheet Piling: ASTM A 328/A 328M, ASTM A 572/A 572M, or ASTM A 690/A 690M; with continuous interlocks.

D. Wood Lagging: Lumber, mixed hardwood, nominal rough thickness of size and strength required for application.

E. Cast-in-Place Concrete: ACI 301, of compressive strength required for application.

F. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Soldier Piles: Install steel soldier piles before starting excavation. Extend soldier piles below excavation grade level to depths adequate to prevent lateral movement. Space soldier piles at regular intervals not to exceed allowable flexural strength of wood lagging. Accurately align exposed faces of flanges to vary not more than 2 inches from a horizontal line and not more than 1:120 out of vertical alignment.
   1. Install wood lagging within flanges of soldier piles as excavation proceeds. Trim excavation as required to install lagging. Fill voids behind lagging with soil, and compact. Wood lagging and steel supports shall be removed upon completion of backfill.
   2. Install wales horizontally at locations indicated on Drawings and secure to soldier piles.

B. Sheet Piling: Before starting excavation, install one-piece sheet piling lengths and tightly interlock to form a continuous barrier. Accurately place the piling, using templates and guide frames unless otherwise recommended in writing by the sheet piling manufacturer. Limit vertical offset of adjacent sheet piling to 60 inches. Accurately align exposed faces of sheet piling to vary not more than 2 inches from a horizontal line and not more than 1:120 out of vertical alignment. Cut tops of sheet piling to uniform elevation at top of excavation.

C. Bracing: Locate bracing to clear columns, floor framing construction, and other permanent work. If necessary to move brace, install new bracing before removing original brace.
   1. Do not place bracing where it will be cast into or included in permanent concrete work unless otherwise approved by Architect.
   2. Install internal bracing, if required, to prevent spreading or distortion of braced frames.
   3. Maintain bracing until structural elements are supported by other bracing or until permanent construction is able to withstand lateral earth and hydrostatic pressures.

3.2 REMOVAL AND REPAIRS

A. Remove excavation support and protection systems when construction has progressed sufficiently to support excavation and bear soil and hydrostatic pressures. Remove in stages to avoid disturbing underlying soils or damaging structures, pavements, facilities, and utilities.

END OF SECTION

SECTION 32 12 16
ASPHALT PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Work under this section shall include the production, delivery and placement of a non-segregated, smooth and dense bituminous concrete mixture brought to proper grade and cross section. This section shall also include the method and construction of longitudinal joints.

B. The terms listed below as used in this specification are defined as:

1. Bituminous Concrete: A concrete material that uses a bituminous material (typically asphalt) as the binding agent and stone and sand as the principal aggregate components. Bituminous concrete may also contain any of a number of additives engineered to modify specific properties and/or behavior of the concrete material. For the purposes of this Specification, references to bituminous concrete apply to all of its sub-categories, for instance those defined on the basis of production and placement temperatures, such as hot-mix asphalt (HMA) or those categories derived from the mix-design procedure used, such as "Marshall" mixes or "Superpave" mixes.

Types of Bituminous Concrete Mix Designations		
Official Mix Designation Designation	English Equivalent Mix Designation	SI Equivalent Mix Designation
HMA S1	Superpave 1.0 inch	Superpave 25.0 mm
HMA S0.5	Superpave 0.5 inch	Superpave 12.5 mm
HMA S0.375	Superpave 0.375 inch	Superpave 9.5 mm
HMA S0.25	Superpave 0.25 inch	Superpave 6.25 mm
Bituminous Concrete Class 1	~	~
Bituminous Concrete Class 2	~	~
Bituminous Concrete Class 3	~	~
Bituminous Concrete Class 4	~	~
Bituminous Concrete Class 12	~	~

2. Course: A lift or multiple lifts comprised of the same bituminous concrete mixture placed as part of the pavement structure.
3. Density Lot: All material placed in a single lift and as defined below.
4. Disintegration: Wearing away or fragmentation of the pavement. Disintegration will be evident in the following forms: Polishing, weathering-oxidizing, scaling, spalling, raveling, potholes or loss of material.
5. Hot Mix Asphalt (HMA): A bituminous concrete mixture typically produced at 325°F.
6. Lift: An application of a bituminous concrete mixture placed and compacted to a specified thickness in a single paver pass.
7. Marshall: A bituminous concrete mix design used in mixtures designated as "Bituminous Concrete Class ( )".
8. Production Lot: All material placed per day during a continuous daily paving operation.
9. Quality Assurance (QA): All those planned and systematic actions necessary to provide confidence that a product or facility will perform as designed.
10. Quality Control (QC): The sum total of activities performed by the vendor (Producer, Manufacturer, and Contractor) to ensure that a product meets contract specification requirements.
11. Superpave: A bituminous concrete mix design used in mixtures designated as "S*" Where "S" indicates Superpave and * indicates the sieve related to the nominal maximum aggregate size of the mix.
12. Segregation: A non-uniform distribution of a bituminous concrete mixture in terms of volumetrics, gradation or temperature.

PART 2 - PRODUCTS

2.1 MATERIALS

A. All materials shall conform to the requirements of Section M.04 in the Standard Specifications (CT DOT Form 817) except that this not being a Connecticut Department of Transportation (CT DOT) project there will not be any testing by CT DOT. All references regarding CT DOT testing shall be deleted and replaced with the material producers and/ or suppliers may be subject to inspecting and testing by the Owner and/ or his representatives.

B. Materials Supply: The bituminous concrete mixture must be from one source of supply and originate from one Plant unless authorized by the Owner. The bituminous concrete mixture shall be produced at an approved CT DOT Plant. The Contractor shall provide proof of current CT DOT plant approval status. Bituminous Concrete plant QC plan requirements are defined in Section M.04 of the State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition and latest supplements.

C. Recycle Option: The Contractor has the option of recycling reclaimed asphalt pavement (RAP) or Crushed Recycled Container Glass (CRCG) in bituminous concrete mixtures in accordance with Section M.04 of the State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition and latest supplements. CRCG shall not be used in the final lift of the surface course. See Geotechnical Engineer's Report in the Project Manual.

PART 3 - EXECUTION

3.1 MATERIAL DOCUMENTATION

A. All vendors producing bituminous concrete must have their truck-weighing scales, storage scales, and mixing plant automated to provide a detailed ticket.

B. Delivery tickets must include the following information:
1. Project name printed on ticket.
2. Name of producer, identification of plant, and specific storage bin (silo) if used.
3. Date and time of day.
4. Mixture Designation If RAP is used, the plant printouts shall include RAP dry weight, percentage and daily moisture content. Class 3 mixtures for machine-placed curbing must state "curb mix only".
5. Net weight of mixture loaded into truck (When RAP is used, RAP moisture shall be excluded from mixture net weight).
6. Gross weight (Either equal to the net weight plus the tare weight or the loaded scale weight).
7. Tare weight of truck – Daily scale weight.
8. Project number, purchase order number, name of Contractor (if Contractor other than Producer).
9. Truck number for specific identification of truck.
10. Individual aggregate, RAP, and virgin asphalt high/target/low weights shall be printed on batch plant tickets (For drum plants and silo loadings, the plant printouts shall be printed out at 5 minute intervals maintained by the vendor for a period of three years after the completion of the project).
11. For every mixture designation the running daily total delivered and sequential load number.

C. The net weight of mixture loaded into the truck must be equal to the cumulative measured weight of its components.

D. The Contractor must notify the Owner immediately if, during the production day, there is a malfunction of the weighing or recording system in the automated plant or truck-weighing scales. Manually written tickets containing all required information will be allowed for one hour, but for no longer, provided that

each load is weighed on State-approved scales. The Owner reserves the right to monitor the plant's bituminous concrete mixture production for batching and/or weighting operation.

3.2 TRANSPORTATION OF MIXTURE

A. Trucks with loads of bituminous concrete being delivered to the projects must not exceed the statutory or permitted load limits referred to as gross vehicle weight (GVW).

B. The mixture shall be transported from the mixing plant in trucks that have previously been cleaned of all foreign material and that have no gaps through which mixture might inadvertently escape. The Contractor shall take care in loading trucks uniformly so that segregation is minimized. Loaded trucks shall be tightly covered with waterproof covers acceptable to the Owner. Mesh covers are prohibited. The front and rear of the cover must be fastened to minimize air infiltration. The Contractor shall assure that all trucks are in conformance with this specification. Trucks found not to be in conformance shall not be allowed to be loaded until re-inspected to the satisfaction of the Owner.

C. Truck body coating and cleaning agents must not have a deleterious effect on the transported mixture. The use of solvents or fuel oil, in any concentration, is strictly prohibited for the coating of the inside of truck bodies. When acceptable coating or agents are applied, truck bodies shall be raised immediately prior to loading to remove any excess agent in an environmentally acceptable manner.

3.3 PAVING EQUIPMENT

A. The Contractor shall have the necessary paving and compaction equipment at the project site to perform the work. All equipment shall be in good working order and any equipment that is worn, defective or inadequate for performance of the work shall be repaired or replaced by the Contractor to the satisfaction of the Owner. During the paving operation, the use of solvents or fuel oil, in any concentration, is strictly prohibited as a release agent or cleaner on any paving equipment (i.e., rollers, pavers, transfer devices, hand tools, etc.).

B. Refueling of equipment is prohibited in any location on the paving project where fuel might come in contact with bituminous concrete mixtures already placed or to be placed. Solvents for use in cleaning mechanical equipment or hand tools shall be stored clear of areas paved or to be paved. Before any such equipment and tools are cleaned; they shall be moved off the paved or to be paved area; and they shall not be returned for use until after they have been allowed to dry.

C. Pavers: Each paver shall have a receiving hopper with sufficient capacity to provide for a uniform spreading operation and a distribution system that places the mix uniformly, without segregation. The paver shall be equipped with and use a vibratory screed system with heaters or burners. The screed system shall be capable of producing a finished surface of the required evenness and texture without tearing, shoving, or gouging the mixture. Pavers with extendible screed units as part of the system shall have auger extensions and tunnel extenders as necessary. Automatic screed controls for grade and slope shall be used at all times unless otherwise authorized by the Owner. The controls shall automatically adjust the screed to compensate for irregularities in the preceding course or existing base. The controls shall maintain the proper transverse slope and be readily adjustable, and shall operate from a fixed or moving reference such as a grade wire or floating beam.

D. Rollers: All rollers shall be self-propelled and designed for compaction of bituminous concrete. Roller types shall include steel-wheeled, pneumatic or a combination thereof and may be capable of operating in a static or dynamic mode. Rollers that operate in a dynamic mode shall have drums that use a vibratory or oscillatory system or combination of. The vibratory system achieves compaction through vertical amplitude forces. Rollers with this system shall be equipped with indicators that provide the operator with amplitude, frequency and speed settings/readouts to measure the impacts per foot during the compaction process. The oscillatory system achieves compaction through horizontal shear forces. Rollers with this system shall be equipped with frequency indicators. Rollers can operate in the dynamic

mode using the oscillatory system on concrete structures such as bridges and catch basins if at the lowest frequency setting.

E. Pneumatic tire rollers shall be self-propelled and equipped with wide-tread compaction tires capable of exerting an average contact pressure from 60 to 90 pounds per square inch uniformly over the surface, adjusting ballast and tire inflation pressure as required. The Contractor shall furnish evidence regarding tire size; pressure and loading to confirm that the proper contact pressure is being developed and that the loading and contact pressure are uniform for all wheels.

F. Lighting: For paving operations, which will be performed during hours of darkness, the paving equipment shall be equipped with adequate lighting fixtures approved by the Owner.

3.4 SEASONAL REQUIREMENTS

A. All paving, including placement of temporary pavements, shall be divided into two seasons, In-Season and Extended Season. In-Season paving shall occur from May 1 – October 31, and Extended Season shall occur from November1- April 30. The following requirements shall apply unless otherwise authorized or directed by the Owner:
   1. Bituminous concrete mixes shall not be placed when the air or subbase temperature is below 40°F regardless of the season.
   2. The Contractor shall not schedule paving operations during the Extended Season without prior approval from the Owner The Contractor shall also provide to the Owner an "Extended Season Paving Plan" as outlined below as part of the Extended Season approval process:
      a. An "Extended Season Paving Plan" shall be submitted to the Owner a minimum of two (2) weeks prior to the Contractor's anticipated paving operations and shall address minimum delivered mix temperature, maximum paver speed, enhanced rolling patterns and the method to balance mixture delivery and placement operations. Extended Season paving shall not commence until the Owner has approved the "Extended Season Paving Plan."
   3. The final lift of bituminous concrete shall not be placed between November 1 and April 30. The Owner, at his discretion, may consider a request from the Contractor to allow placing the top course bituminous concrete if it is deemed to be in the best interest of the project.
   4. There will be no additional compensation in relation to when bituminous concrete is placed.

3.5 TRANSITIONS FOR ROADWAY SURFACE

A. Transitions shall be formed at any point on the roadway where the pavement surface deviates, vertically, from the uniform longitudinal profile as specified on the plans. Whether formed by milling or by bituminous concrete mixture, all transition lengths shall conform to the criteria below unless otherwise specified.

B. Permanent Transitions: A permanent transition is defined as any transition that remains as a permanent part of the work. All permanent transitions, leading and trailing ends shall meet the following length requirements:
   1. Posted speed limit is greater than 35 MPH: 30 feet per inch of vertical change (thickness)
   2. Posted speed limit is 35 MPH or less: 15 feet per inch of vertical change (thickness).
   3. Bridge Overpass and underpass transition length will be 75 feet either
      a. Before and after the bridge expansion joint, or
      b. Before or after the parapet face of the overpass.
   4. In areas where it is impractical to use the above described permanent transition lengths the use of a shorter permanent transition length may be permitted when approved by the Owner.

C. Temporary Transitions: A temporary transition is defined as a transition that does not remain a permanent part of the work. All temporary transitions shall meet the following length requirements:
   1. Posted speed limit is greater than 35 MPH
      a. Leading Transitions = 15 feet per inch of vertical change (thickness)

b. Trailing Transitions = 6 feet per inch of vertical change (thickness)

2. Posted speed limit is 35 MPH or less
   a. Leading and Trailing = 4 feet per inch of vertical change (thickness)

Note: Any temporary transition to be in-place over the winter shutdown period, holidays, or during extended periods of inactivity (more than 7 calendar days) shall conform to the "Permanent Transition" requirements shown above and shall be approved by the Owner prior to implementation.

3.6 SPREADING AND FINISHING OF MIXTURE

A. Prior to the placement of the bituminous concrete, the underlying base course shall be brought to the plan grade and cross section within the allowable tolerance. Immediately before placing the mixture, the area to be surfaced shall be cleaned by sweeping or by other means acceptable to the Owner. The bituminous concrete mixture shall not be placed whenever the surface is wet or frozen. The temperature of the bituminous concrete mixture at time of placement must be between 265°F. to 325°F. except that the minimum temperature will be 290°F. when the mixture is placed during the Extended Season.

B. The mix temperature may be verified by the Owner at the time and location of placement by means of a probe or infrared type of thermometer to confirm conformance with this specification.

C. Placement: The bituminous concrete mixture shall be placed and compacted to provide a smooth, dense surface with a uniform texture and no segregation at the specified thickness and dimensions indicated in the plans and specifications.

When unforeseen weather conditions prevent further placement of the mix, the Owner is not obligated to accept or place the bituminous concrete mixture that is in transit from the plant or already at the project site awaiting placement.

In advance of paving, traffic control requirements as stipulated under the relevant sections of the Contract Documents shall be set up daily, maintained throughout placement, and shall not be removed until all associated work including density testing is completed.

The Contractor shall inspect the newly placed pavement for defects in the mixture or placement before rolling is started. Any deviation from standard crown or sections shown on the plans, or nonconforming to adjacent existing conditions, shall be immediately remedied by placing additional mixture or removing surplus mixture prior to commencing compaction operations. Such defects shall be corrected to the satisfaction of the Owner.

Where it is impractical due to physical limitations to operate the paving equipment, the Owner may permit the use of other methods or equipment. Where hand spreading is permitted, the mixture shall be placed by means of suitable shovels and other tools, and in a uniformly loose layer at a thickness that will result in a completed pavement meeting the designed grade and elevation. Where hand spreading is permitted by the Owner, it shall not relieve the Contractor of his responsibility to comply with all compaction requirements. The Contractor shall use such equipment as may be necessary to ensure proper compaction has been attained in areas of hand spreading without damage to nearby or adjacent structures/amenities or completed work.

D. Placement Tolerances: Each lift of bituminous concrete placed at a uniform specified thickness shall meet the following requirements for thickness and area. Any pavement exceeding these limits shall be subject to removal and replacement. Lift tolerances will not relieve the Contractor from the responsibility of meeting the final designed grades and cross sections.

The Contractor shall provide copies of all bituminous concrete delivery slips to the Owner for each daily section of pavement placed to determine the theoretical thickness of the in place material as follows:

Theoretical Thickness = $T/A_a \times 0.0575$

Where: T = Actual tons in place
A_a = Actual area (SY)
Yield factor for calculation = 0.0575 Tons/ SY/ inch

E. Thickness- When the thickness of the lift of mixture is less than that shown on the plans beyond the tolerances shown in Table A, the Contractor, shall remove the deficient section and replace it with the specified thickness of material of the same class and to the dimensions as specified in the Contract Documents at their own cost

TABLE A - Thickness Tolerances

Mixture Designation	Lift Tolerance
Class 4 and S1	+ ⅜ inch*
Class 1, 2 and 12 and S0.25, S0.375, S0.5	+ ¼ inch*

*There is no negative lift tolerance, the minimum lift thickness shall be equal to the designed thickness indicted on plans.

When requested by the Owner, if quality or thickness is a disputed issue then, the Contractor, will provided pavement cores as another means to confirm the pavement thicknesses at no additional cost to the Owner. If the Contractor does not provide cores within 72 hours from the Owner request, then the Owner reserves the right to hire a third party to provide core samples to verify thickness. The cost of which will be deducted from the Contractor's progress payments and/ or retainage

F. Longitudinal Joint Construction: All joints shall be straight and true to adjacent improvements. During placement of multiple lifts of bituminous concrete, the longitudinal joint shall be constructed in such a manner that it is located at least 6 inches from the joint in the lift immediately below. The Contractor shall plan his daily paving operation so that each paving length is the full width of area being paved. No exposed longitudinal joint edges will be allowed unless authorized by the Owner. Prior to placing the completing pass (hot side), an application of tack coat must be applied to the exposed edge of the preceding paving pass of bituminous concrete regardless of time elapsed between paver passes. The in-place time allowance described in Sub article "Tack Coat Application" below does not apply to joint construction.

G. Transverse Joints: All transverse joints shall be formed by saw-cutting a sufficient distance back from the previous run, existing bituminous concrete pavement, or bituminous concrete driveways to expose the full thickness of the lift. Tack coat shall be applied on any cold joint immediately prior to additional bituminous concrete mixture placement.

H. Tack Coat Application: A thin uniform coating of tack coat shall be applied to the pavement immediately before overlaying and be allowed sufficient time to break (set). All surfaces in contact with the bituminous concrete that have been in place longer than 3 calendar days shall have an application of tack coat. The tack coat shall be applied by a non-gravity pressurized spray system that results in uniform overlapping coverage at an application rate of 0.03 to 0.05 gallons per square yard for a non-milled surface and an application rate of 0.05 to 0.07 gallons per square yard for a milled surface. For areas where both milled and un-milled surfaces occur, the tack coat shall be an application rate of 0.03 to 0.05 gallons per square yard. The Owner must approve the equipment and the method of measurement prior to use. The material for tack coat shall not be heated in excess of 160°F and shall not be further diluted. Under no circumstances shall tack coat be applied to surfaces damp to the touch or over standing water. In the event of unforeseen weather conditions, the application of tack coat shall stop until the surface to receive tack coat is dry. The Owner is not obligated to accept any bituminous concrete mixture or tack coat that is placed on/in wet conditions.

I. Tack Coat Application Rate Verification: The Contractor shall provide daily tack coat delivery tickets to the Owner for verification of application rates.

Daily delivery tickets must include the following information:

1. Project name printed on ticket.

2. Name and location of supplier,
3. Date and time of day.
4. Product type.
5. 1st Gross weight - the loaded scale weight before application of tack coat material.
6. 2nd Gross weight - the loaded scale weight upon completion of tack coat material application.
7. Tare weight of truck – Daily scale weight.
8. Project number, purchase order number, name of Contractor (if Contractor other than Producer).
9. Truck number for specific identification of truck.

J. Compaction: The Contractor shall compact the mixture to an average density between 92.0 and 97.0 percent. All roller marks shall be eliminated without displacement, shoving, cracking, or aggregate breakage.

The Contractor shall only operate rollers in the dynamic mode using the oscillatory system at the lowest frequency setting on concrete structures such as bridges and catch basins. The use of the vibratory system on concrete structures is prohibited. Rollers operating in the dynamic mode shall be shut off when reversing directions.

If the Owner determines that the use of compaction equipment in the dynamic vibratory mode may damage highway components, utilities, or adjacent property, the Contractor shall provide alternate compaction equipment. The Owner may allow the Contractor to operate rollers in the dynamic mode using the oscillatory system at the lowest frequency setting.

These allowances will not relieve the Contractor from meeting pavement compaction requirements.

K. Surface Requirements: The pavement surface of any lift shall meet the following requirements for smoothness and uniformity. Any irregularity of the surface exceeding these requirements shall be corrected by the Contractor at his expense:

1. Smoothness – Each lift of the surface course shall not vary more than ¼ inch from a Contractor-supplied 10 foot straightedge. For all other lifts of bituminous concrete, the tolerance shall be ⅜ inch. Such tolerance will apply to all paved areas regardless of placement methods, i.e. hand spreading.
2. Uniformity – The paved surface shall not exhibit segregation, rutting, cracking, disintegration, flushing or vary in composition as determined by the Owner.

3.7 CONTRACTOR QUALITY CONTROL (QC) REQUIREMENTS FOR PLACEMENT

A. The Contractor shall be responsible for maintaining adequate quality control procedures throughout the placement operations. Therefore, the Contractor must ensure that the materials, mixture and work provided by Subcontractors, Suppliers and Producers also meet contract specification requirements.

B. A Quality Control Plan (QCP) shall be submitted for any project with a proposed tonnage greater than 2,500 tons of Bituminous Concrete and/or when the paving operation is scheduled to occur during the Extended Season with prior approval from the Owner.

C. Quality Control Plan: When required, prior to placement, the Contractor shall submit a QCP to the Owner for approval. The QCP shall be submitted at the pre-construction meeting or a minimum 30 days prior to any production or paving. Work covered by the QCP shall not commence until the Owner's comments have been incorporated into the QCP and approved. The QCP shall detail every aspect of the placement process and if required, include a separate section on Extended Season paving as described in Section 4. "Seasonal Requirements". The QCP must address the actions, inspection, minimum frequency of testing/ sampling and testing necessary to keep the production and placement operations in control, to determine when an operation has gone out of control, and to respond to correct the situation in a timely fashion. The QCP shall also include details on when and who will communicate with personnel at the bituminous concrete plant to determine when immediate changes to the production or placement processes are needed, and to implement the required changes.

Approval of the QCP does not relieve the Contractor of his responsibility to comply with the project specifications and in accordance with the Contract Documents.

D. Quality Control Inspection, Sampling and Testing: The Contractor shall perform all quality control sampling and testing, provide inspection, and exercise management control to ensure that bituminous concrete production and placement conforms to the requirements of these specifications.
   1. Records of Inspection and Testing: For each day of placement, the Contractor shall document all test results and inspections on forms approved by the Owner. The document shall be certified by the Quality Control Manager or his representative that the information in the document is accurate, and that all work complies with the requirements of the contract.

3.8 DENSITY TESTING OF BITUMINOUS CONCRETE

A. The Contractor shall monitor and confirm density utilizing a nuclear density gauge of all bituminous concrete placed daily regardless of the quantity. Testing shall be performed by a NETTCP certified HMA Paving Inspector from a certified independent CT testing laboratory. The minimum frequency of testing shall be as follows.

Sub-Lots for Density Testing		
Daily Production Tons	MAT Number of Sub-Lots	JOINT Number of Sub-Lots/ Joint
Less than 500	1 per 100	1per 100
500 to 1,500	10	5
Greater than 1,500	20	10

B. The Contractor shall submit complete laboratory certified test reports and accurate density inspection reports to the Owner within 48 hours following the daily paving operations. The documents shall be submitted in a manner acceptable to the Owner.

C. All costs associated with the required density testing and reporting shall be the responsibly of the Contractor.

3.9 CORRECTIVE WORK PROCEDURES

A. Any portion of the completed pavement that does not meet the requirements of the Contract Documents shall be corrected at the expense of the Contractor. Any corrective courses placed as the final wearing surface shall not be less than 1½ inches in thickness after compaction.

B. If pavement placed by the Contractor does not meet the requirements of the Contract Documents, and the Owner requires its replacement or correction, the Contractor shall:
   1. Propose a corrective procedure to the Owner for review and approval prior to any corrective work commencing. The proposal shall include:
      a. Limits of pavement to be replaced or corrected, indicating stationing or other landmarks that are readily distinguishable.
      b. Proposed work schedule.
      c. Construction method and sequence of operations.
      d. Methods of maintenance and protection of traffic.
      e. Material sources.
      f. Names and telephone numbers of supervising personnel.
   2. In the event the Contractor proposes to perform corrective work during the "Extended Season", the Contractor shall provide an "Extended Season Paving Plan" and adhere to all seasonal requirements within this specification.
   3. Perform all corrective work in accordance with the Contract and the approved corrective procedure.

3.10 PROTECTION OF THE WORK

A. The Contractor shall protect all sections of the newly finished pavement from damage that may occur as a result of the Contractor's operations for the duration of the Project. Prior to the Owner's authorization to open the pavement to traffic, the Contractor is responsible for the protection of the pavement from all damage.

NOTE:

The Owner may at any time during the course of the work perform QA testing that he deems necessary to assure conformance to these specifications. Any deficiencies found through these actions shall be immediately corrected by the Contractor at no additional cost to the Owner. The cost associated with the re-testing of areas where corrective work was performed will be deducted from the Contractor's progress and/or retainage.

Any pavement deficiencies, corrective work and/or QC/QA issues need to be resolved prior to payment for the work under this section.

END OF SECTION
***

SECTION 32 13 13
CONCRETE PAVING AND CURBING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes exterior cement concrete pavement and curbing for the following:
   1. All concrete curbing.
   2. Walkways and handicap ramps.
   3. Concrete pads.

B. Related Section
   1. Section 31 20 00 Earth Moving
   2. Section 32 13 16 Cast-In-Place Concrete
   3. Section 32 13 73 Concrete Paving Joint Sealants

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Design Mixtures: For each concrete pavement and curbing mixture.

C. Shop Drawings: For reinforcing steel and splicing materials.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products who complies with ASTM C 94/C 94M requirements for production facilities and equipment.

B. ACI Publications: Comply with ACI 301, "Specification for Structural Concrete," unless modified by requirements in the Contract Documents.

C. Form 817 - State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition shall be used for material compliance and execution of the work in this section, unless otherwise specified herein.

D. Workers: All workers shall be thoroughly trained and experienced in the necessary crafts, and completely familiar with the specified requirements and the methods needed for proper performance of the work of this section.

E. Testing and Inspection: Contractor shall employ and pay for a qualified independent laboratory to perform testing and inspection service required by these specifications and in compliance with the specifications outlined in the Form 817 - State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 and latest supplements.
   1. Testing Services: Tests shall be performed according to ACI 301.

2. Concrete testing shall be performed at a minimum testing frequency of one slump, air, and temperature test per day or per 50 cubic yards of concrete placed, whichever is greater.
3. Compressive cylinder specimens shall be prepared at the frequency of one set of cylinders per day or per 50 cubic yards of concrete placed, whichever is greater. A minimum of one 7-day cylinder and two 28-day cylinders shall be prepared per cylinder set for acceptance.

PART 2 - PRODUCTS

2.1 STEEL REINFORCEMENT

A. Plain-Steel Welded Wire Reinforcement: ASTM A 185, fabricated from as-drawn steel wire into flat sheets.

B. Deformed-Steel Welded Wire Reinforcement: ASTM A 497, flat sheet.

C. Reinforcing Bars: ASTM A 615/A 615M, Grade 60; deformed.

D. Plain Steel Wire: ASTM A 82, as drawn.

E. Deformed-Steel Wire: ASTM A 496.

2.2 CONCRETE MATERIALS

A. Concrete shall be Class "C" conforming to Article M.03.01 of CT DOT Form 817 where indicated on the Contract Drawings.

B. Concrete shall be Class "F" conforming to Article M.03.01 of CT DOT Form 817 where indicated on the Contract Drawings.

C. Water: Potable

D. Air-Entraining Admixture shall conform to Article M.03.01 of CT DOT Form 817.

2.3 CONCRETE SEALER FOR SALT PROTECTION

A. Concrete sealer for salt protection shall be applied on the concrete finish. The product shall be specifically manufactured for this type of application. The Contractor shall submit product information for Engineer approval. The rate of application shall be as recommended by manufacturer. Sealer shall dry clear on concrete surfaces. Sealer shall be Consolidecк Saltguard WB as manufactured by ProSoCo, Inc., 3741 Greenway Circle, Lawrence, KS 66046, www.prosoco.com or approved equivalent.

2.4 RELATED MATERIALS

A. Expansion- and Isolation-Joint-Filler Strips: Polyethylene joint filler with removable strip for joint sealer installation, as indicated on the Contract Drawings and as amended and revised per Section 32 13 73 "Concrete Paving Joint Sealants".

B. Joint Sealer: Shall be as indicated on the Contract Drawings and as amended and revised per Section 32 13 73 "Concrete Paving Joint Sealants".

PART 3 - EXECUTION

3.1 EXAMINATION

A. Proof-roll prepared aggregate base course below concrete pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excessive yielding.

3.2 EDGE FORMS AND SCREED CONSTRUCTION

A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides for pavement to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement

B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.3 STEEL REINFORCEMENT

A. General: Comply with Article 6.02 of CT DOT Form 817.

3.4 JOINTS

A. General: Form construction, isolation, and contraction joints and tool edgings true to line with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline, unless otherwise indicated.

B. Construction Joints: Set construction joints at side and end terminations of pavement and at locations where pavement operations are stopped for more than one-half hour unless pavement terminates at isolation joints.

C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting buildings, concrete curbs, catch basins, manholes, inlets, structures, walks, other fixed objects, and where indicated.

D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to that shown on the Contract Drawings.

3.5 CONCRETE PLACEMENT – WALKWAYS AND HANDICAP RAMPS

A. Comply with Article 9.21 of CT DOT Form 817.
   1. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch deep with a stiff-bristled broom, perpendicular to line of traffic.

3.6 CONCRETE PLACEMENT – CONCRETE CURBING

A. Comply with Section 8.11 of CT DOT Form 817.

B. Expansion joints shall continue through face of curb.

3.7 CONCRETE PROTECTION AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

B. Comply with ACI 306.1 for cold-weather protection.

C. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.

D. Concrete sealer for salt protection shall be applied on the concrete finish at the rate of application as recommended by the manufacturer.

3.8 REPAIRS AND PROTECTION

A. Remove and replace concrete pavement that is broken, damaged, or defective or that does not comply with requirements in this Section.

B. Protect concrete from damage. Exclude traffic from pavement for at least 14 days after placement.

C. Maintain concrete pavement free of stains, discoloration, dirt, and other foreign material. Sweep concrete pavement not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION
***

SECTION 32 17 23
PAVEMENT MARKINGS

PART 1 - GENERAL

1.1 WORK INCLUDED:

C. Provide all materials, equipment, and services necessary to furnish and deliver work of this Section as shown on the Drawings, as specified, and as required by job conditions including, but not limited to the following:
   1. Pavement markings, symbols, and legends.

1.4 RELATED SECTIONS:

D. Section 32 12 16 Asphalt Paving

1.5 QUALITY ASSURANCE:

H. Form 817 - State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition and latest supplements shall be used for material compliance and execution of the work in this section.

I. Workers: All workers shall be thoroughly trained and experienced in the necessary crafts, and completely familiar with the specified requirements and the methods needed for proper performance of the work of this section.

1.4 SUBMITTALS:

C. In accordance with the General Requirements, submit samples, materials certifications, manufacturer's product data and test reports as hereinafter required.

D. Manufacturer data on pavement marking paint.

PART 2 - PRODUCTS

2.1 MATERIALS:

H. General: Use locally available materials and graduations that exhibit a satisfactory record or previous installations.

I. Marking Paint: Shall be in accordance with Article M.07.21 of the Form 817 - State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition including supplements. Colors are as follows:
   1. Stop Bars and Crosswalk: White
   2. Centerline Marking: Yellow
   3. Handicapped Parking: White
   4. Fire Lane: Yellow
   5. Arrows: White

PART 3 - EXECUTION

3.1 TRAFFIC AND LINE MARKINGS:

E. Cleaning: Sweep and clean surface to eliminate loose material and dust.

F. Do not apply traffic and lane marking paint until layout and placement have been verified with Engineer.

G. Apply paint with mechanical equipment to produce uniform straight edges. Apply at manufacturer's recommended rates and conforming to CT DOT Form 817, Article 12.09.03.

H. Install pavement markings, symbols, and legends two weeks following final application of bituminous concrete surface.

END OF SECTION
***

SECTION 32 18 16
PLAYGROUND PROTECTIVE SURFACING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Poured-in-place playground surfacing system.

B. Related Sections: Division 2 Sitework Sections: Materials and Methods, Excavation, Asphalt Paving, Concrete Paving, Sub-Drainage, Storm Drainage, Fencing, Playground Equipment and Structures.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
2. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
3. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Floor Surfaces as Measured by the James Machine.
4. ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials.
5. ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester.
6. ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
7. ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.

1.3 SYSTEM DESCRIPTION

A. Performance Requirements: Provide a two-layer rubber-polyurethane playground surfacing system which has been designed, manufactured and installed to meet the following criteria:

1. Shock Attenuation (ASTM F1292):
   a. Gmax: Less than 200.
   b. Head Injury Criteria: Less than 1000.
2. Flammability (ASTM D2859): Pass.
3. Tensile Strength (ASTM D412): 60 psi (413 kPa).
4. Tear Resistance (ASTM D624): 140%.
5. Water Permeability: 0.4 gal/yd2/second.
6. Accessibility: Comply with requirements of ASTM F1951.

1.4 SUBMITTALS

A. General: Submit listed submittals in accordance with Section 013300 Submittals.

B. Product Data: Submit manufacturer's product data and installation instructions.

C. Verification Samples: Submit manufacturer's standard verification samples of 9" x 9" minimum.

D. Quality Assurance/Control Submittals: Submit the following:

1. Certificate of qualifications of the playground surfacing installer.

E. Closeout Submittals: Submit the following:

1. Warranty documents specified herein.

1.5 QUALITY ASSURANCE

A. Qualifications: Utilize an installer approved and trained by the manufacturer of the playground surfacing system, having experience with other projects of the scope and scale of the work described in this section.
B. Certifications: Certification by manufacturer that installer is an approved applicator of the playground surfacing system.
C. International Play Equipment Manufacturers Association (IPEMA) certified.

1.6 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirement Section.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
C. **Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 40 degrees F (4 degrees C) and a maximum temperature of 90 degrees F (32 degrees C).**

1.7 PROJECT/SITE CONDITIONS

A. Environmental Requirements: Install surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 90 degrees F (32 degrees C). Do not install in steady or heavy rain.

1.8 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

PART 2 - PRODUCTS

2.1 POURED-IN-PLACE PLAYGROUND SURFACING SYSTEM

A. Manufacturer: Surface America, Inc. or approved equivalent.

1. Contact: PO Box 157, Williamsville, NY 14231; Telephone: (800) 999-0555, (716) 632-8413; Fax: (716) 632-8324; E-mail: info@surfaceamerica.com; website: www.surfaceamerica.com.

B. Proprietary Products/Systems. Poured-in-place playground surfacing system, including the following:

1. PlayBound Poured-In-Place Primer:

a. Material: Polyurethane.

2. PlayBound Poured-in-Place Basemat:

a. Material: Blend of 100% recycled SBR (styrene butadiene rubber) and polyurethane.

b. Thickness:
1. Ages 5-12 Play Area: Per Playground Equipment Manufacturer's Recommendations.

c. Formulation Components: Blend of strand and granular material.

3. PlayBound Poured-In-Place Top Surface:

a. Material: Blend of recycled EPDM (ethylene propylene diene monomer) and polyurethane.
b. Thickness: Nominal 1/2, minimum 3/8", maximum 5/8".
c. Color: As Shown on Contract Drawings
d. Dry Static Coefficient of Friction (ASTM D2047): 1.0.
e. Wet Static Coefficient of Friction (ASTM D2047): 0.9.
f. Dry Skid Resistance (ASTM E303): 89.
g. Wet Skid Resistance (ASTM E303): 57.

2.2 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

2.3 MIXES

A. Required mix proportions by weight:

1. Basemat: 14% polyurethane, 86% rubber.
2. Top Surface: 18% polyurethane, 82% rubber.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

A. Comply with the instructions and recommendations of the playground surfacing manufacturer.

3.2 EXAMINATION

A. Site Verification of Conditions: Verify that substrate conditions are suitable for installation of the playground surfacing system.
B. Do not proceed with installation until unsuitable conditions are corrected.

3.3 PREPARATION

A. Surface Preparation: Using a brush or short nap roller, apply primer to the substrate perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft2/gal (7.5 m2/L).

3.4 INSTALLATION

A. Do not proceed with playground surfacing installation until all applicable site work, including substrate preparation, fencing, playground equipment installation and other relevant work, has been completed.

B. Basemat Installation:

1. Using screeds and hand trowels, install the basemat at a consistent density of 29 pounds, one (1) ounce per cubic foot (466 kg/m3) to the specified thickness.

2. Allow basemat to cure for sufficient time so that indentations are not left in the basemat from applicator foot traffic or equipment.

3. Do not allow foot traffic or use of the basemat surface until it is sufficiently cured.

C. Primer Application: Using a brush or short nap roller, apply primer to the basemat perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft. 2/gal (7.5 m2/L).

D. Top Surface Installation:

1. Using a hand trowel, install top surface at a consistent density of 58 pounds, nine (9) ounces per cubic foot (938 kg/m3) to a nominal thickness of 1/2" (12.7 mm).
2. Allow top surface to cure for a minimum of 48 hours.
3. At the end of the minimum curing period, verify that the top surface is sufficiently dry and firm to allow foot traffic and use without damage to the surface.
4. Do not allow foot traffic or use of the surface until it is sufficiently cured. Section.

3.5 PROTECTION

A. Protect the installed playground surface from damage resulting from subsequent construction activity on the site.

END OF SECTION
***

SECTION 32 31 14
COLOR CHAIN LINK FENCE AND GATES

PART 1 - GENERAL

1.1 SUMMARY

A. Provide all equipment, materials, and appurtenances to do all work necessary to construct the color chain link fence and gates, as indicated on the drawings and as specified. Work includes but is not limited to the following:
   1. Color fence framing system
   2. Color chain link fence fabric

1.2 RELATED WORK

A. Examine contract documents for requirements that affect work of this section.

1.3 QUALITY ASSURANCE

A. Chain link fencing manufactured in accordance with the requirements of the CLFMI Manual. Manufacturer of the fencing system must be a CLFMI member.

B. Form 817 - State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition with supplements shall be used for material compliance and execution of the work in this section.

C. ALL Playground fence to being installed per ASTM F2049 Performance spec for fences/barriers for public, commercial, and multifamily residential use outdoor play areas.

1.4 SUBMITTALS

A. Product Data: Submit catalog cuts and manufacturer's detail specifications for all materials and equipment to be incorporated into the work.

B. Warranty: Color chain link fence systems supplied with minimum fifteen (15) year factory warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Framework for color chain link fence systems shall conform to Ameristar® PermaCoat® PC-40™ Fence Pipe (industrial weight), as manufactured by Ameristar Fence Products in Tulsa, Oklahoma or approved equal. Qualified manufacturers shall have a minimum of five years experience manufacturing PVC coated chain link fencing.

B. Obtain chain link fences and gates, including accessories, fittings, and fastenings, from a single source.

C. Approved Manufacturer: Ameristar Fence Products; Phone: (800) 321-8724

D. Fax: (877) 926-3747

2.2 MATERIAL – STEEL FRAMEWORK

A. The steel material used to manufacture fence pipe shall be zinc-coated steel strip, galvanized by the hot-dip process conforming to the criteria of ASTM A653 and the general requirements of ASTM A924.

B. The zinc used in the galvanizing process shall conform to ASTM B6. Weight of zinc shall be determined using the test method described in ASTM A90 and shall conform to the weight range allowance for ASTM A653, Designation G 210.

C. The framework shall be manufactured in accordance with commercial standards to meet the strength (50,000 psi minimum yield strength) and coating requirements of the following standards: 1.) ASTM F1043, Group IC, Electrical Resistance Welded Round Steel Pipe, heavy industrial weight. 2.) M181, Type I, Grade 2, Electrical Resistance Welded Steel Pipe. 3.) RR-F-191/3, Class 1, Grade B, Electrical Resistance Welded Steel Pipe.

D. The exterior surface of the electrical resistance weld shall be recoated with the same type of material and thickness as the basic zinc coating.

E. The manufactured framework shall be subjected to a complete thermal stratification coating process (multi-stage, high-temperature, multi-layer) including, as a minimum, a six-stage pretreatment/wash (with zinc phosphate), an electrostatic spray application of an epoxy base, and a separate electrostatic spray application of a polyester finish.

F. The material used for the base coat shall be a zinc-rich (gray color) thermosetting epoxy; the minimum thickness of the base coat shall be (2) mils. The material used for the finish coat shall be a thermosetting "no-mar" TGIC polyester powder; the minimum thickness of the finish coat shall be (2) mils. The stratification coated pipe shall demonstrate the ability to endure a salt-spray resistance test in accordance with ASTM B117 without loss of adhesion for a minimum exposure time of 3,500 hours. Additionally, the coated pipe shall demonstrate the ability to withstand exposure in a weather-ometer apparatus for 1,000 hours without failure in accordance with ASTM D1499 and to show satisfactory adhesion when subjected to the cross-hatch test, Method B, in ASTM D3359. The polyester finish coat shall not crack, blister or split under normal use.

G. The color of all frame work is as indicated on the plan sheets and shall be in accordance with ASTM F934.

H. The strength of fence pipe shall conform to the requirements of ASTM F1043; the minimum weight shall not be less than 90% of the nominal weight. The strength of line, end, corner and pull posts shall be determined by the use of 4' or 6' cantilevered beam test. An alternative method of determining pipe strength is by the calculation of bending moment. Conformance with this specification can be demonstrated by measuring the yield strength of a randomly selected piece of pipe from each lot and calculating the section modulus. The yield strength shall be determined according to the methods described in ASTM E8. For materials under this specification, the 0.2 offset method shall be used in determining yield strength. Terminal posts, line posts and top/bottom rails shall be precut to specified lengths.

2.3 MATERIAL – FENCE FABRIC

A. The material for chain link fence fabric shall be manufactured from galvanized steel wire. The weight of zinc shall meet the requirements of ASTM F668, Table 4. Galvanized wire shall be PVC-coated to meet the requirements of ASTM F668. The class of the fence fabric shall be Class 2B – Fused and Bonded.

B. Selvage: Top edge knuckled and bottom edge knuckled.

C. Color: The coating color for the fence fabric is as indicated on the plan sheets. Reference ASTM F688 and ASTM F934.

D. Wire Size: The size of the steel wire core shall be is as indicated on the plan sheets. The finished size of the coated wire is as indicated on the plan sheets.

E. Height and Mesh Size: The fabric height shall be as indicated on the plan sheets with a mesh size as is indicated on the plan sheets.

2.4 MATERIAL – FENCE FITTINGS

A. The material for fence fittings shall be manufactured to meet the requirements of ASTM F626. The coating for all fittings shall be the same PermaCoat color coating system required for the framework; the color for all fittings shall be as indicated on the Contract Drawings in accordance with ASTM F934.

2.5 MATERIAL – GATES

A. Swing gates shall be manufactured and coated to meet the requirements of ASTM F900. The color of all gates shall be "black" or as indicated on the Contract Drawings.
1. Color: Black

2.6 CONCRETE

A. Concrete post footings as indicated on the Contract Drawings and in conformance with Section 32 13 16 "Cast-In-Place Concrete".

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify areas to receive fencing are completed to final grades and elevations.

B. Ensure property lines and legal boundaries of work are clearly established.

3.2 CHAIN LINK FENCE FRAMING INSTALLATION

A. Install chain link fence in accordance with ASTM F567.

B. Space line posts uniformly.

C. Concrete set terminal and gate posts: Drill holes in firm, undisturbed or compacted soil. Holes should have a diameter 4 times greater than outside of post, and depths approximately 6" (150 mm) deeper than post bottom. Excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads. Set post bottom 36" (900 mm) below surface when in firm, undisturbed soil. Place concrete around posts in a continuous pour. Trowel finish around post. Slope to direct water away from posts.

D. Gate hardware: Set keepers, stops, sleeves, and other accessories into concrete.

E. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.

F. Bracing: Install horizontal pipe brace at mid-height for fences 6' (1830 mm) and over, on each side of terminal posts. Firmly attach with fittings. Install diagonal truss rods at these points. Install braces and adjust truss rod, ensuring posts remain plumb.

G. Tension wire: Provide tension wire at bottom of fabric. Install tension wire before stretching fabric and attach to each post with ties or clips. Secure tension wire to fabric with 12-1/2 gauge [.0985" (2.502 mm)] hog rings 24" on center (609.6 mm).

H. Top rail: Install lengths, 21' (6400 mm). Connect joints with sleeves for rigid connections for expansion/contraction.

I. Rails: Center rails are to be installed when fence fabric is 10' or higher or when shown on drawings. Bottom rails are to be installed when shown on drawings.

3.3 CHAIN LINK FABRIC INSTALLATION

A. Fabric: Install fabric on security side, and attach so that fabric remains in tension after pulling force is released. Leave approximately 2" (50 mm) between finish grade and bottom selvage. Attach fabric with wire ties to line posts at 15" (380 mm) on center and to rails, braces, and tension wire at 24" (600 mm) on center

B. Tension (stretcher) bars: Pull fabric taut; thread tension bar through fabric and attach to terminal posts with bands spaced maximum of 15" (380 mm) on center.

3.4 GATE INSTALLATION

A. Install gates plumb, level, and secure for full opening without interference.

B. Attach hardware by means which will prevent unauthorized removal.

C. Adjust hardware for smooth operation.

3.5 ACCESSORIES

A. Tie wires: Bend ends of wire to minimize hazard to persons and clothing.

B. Fasteners: Install nuts on side of fence opposite fabric side for added security.

3.6 CLEANING

A. Clean up debris and unused material, and remove from the site.

END OF SECTION
***

SECTION 32 92 00
TURF AND GRASSES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Seeding
   2. Sodding
   3. Erosion control matting

B. Related Sections
   1. Section 31 10 00 Site Clearing
   2. Section 31 20 00 Earth Moving

1.3 DEFINITIONS

A. Finish Grade: Elevation of finished surface of planting soil.

B. Manufactured Soil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil.

C. Subgrade: Surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill immediately beneath planting soil.

D. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.

E. Topsoil: The upper portion of a soil, typically the first layer from existing grade, usually dark colored and rich in organic matter and soil organisms.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Certification of grass seed.
   1. Certification of each seed mixture for turf grass and sod.

C. Product certificates.

D. Planting Schedule: Indicating anticipated planting dates for each type of planting.

1.5 QUALITY ASSURANCE

A. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when planting is in progress.

B. Topsoil Analysis:
1. Furnish soil analysis by a qualified soil-testing laboratory. Provide a minimum of four (4) test samples taken from different areas on the site. Submit all test results to the Engineer for review and approval.
2. Report suitability of topsoil for lawn growth. Provide "textural analysis – percentage of sand, silt and clay". PH and laboratory recommended quantities of nitrogen, phosphorus, and potash nutrients and soil amendments to be added to produce satisfactory topsoil.
3. Topsoil shall meet the following parameters:

Parameters	Range
Sand Content	50% – 75% of total weight
Organic Matter Content	6% – 10% (dry weight basis)
Clay	< 10% (by weight)
Silt	10% - 15% (by weight)
pH	5.5% - 7%
Foreign Matter	< 0.05% (by weight)

C. Workers: All workers shall be thoroughly trained and experienced in the necessary crafts, and completely familiar with the specified requirements and the methods needed for proper performance of the work of this section.

D. Form 817 - State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition shall be used for materials compliance and execution of the work in this section, inclusive of specification modifications contained in this specification.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Sod: Harvest, deliver, store, and handle sod according to requirements in Turf Product Industry's "Specifications for Turfgrass Sod Materials" and "Specifications for Turfgrass Sod Transplanting and Installation" in its "Guideline Specifications to Turfgrass Sodding." Deliver sod in time for planting within 24 hours of harvesting. Protect sod from breakage and drying.

1.7 MAINTENANCE SERVICE

A. Initial Lawn Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in Part 3. Begin maintenance immediately after each area is planted and continue until acceptable lawn is established, but for not less than the following periods:
1. Seeded Lawns: 90 days from date of Substantial Completion.
   a. When initial maintenance period has not elapsed before end of planting season, or if lawn is not fully established, continue maintenance during next planting season.

PART 2 - PRODUCTS

2.1 SEED

A. Grass Seed: Seed shall be a blend of certified lawn grasses as specified on the Contract Drawings. Provide fresh, clean, new-crop seed complying with established tolerances for germination and purity in accordance with the U.S. Department of Agriculture Rules and Regulations under the latest edition of the Federal Seed Act. Seed shall be mixed by the dealer and shall be delivered to the site in sealed containers that bear the Dealer's guaranteed analysis.

B. Seed Species: The seed mixture shall be as shown on the Contract Drawings, or approved equals. Refer to the Contract Drawings for seed types for different grass areas/zones.

2.2 TURFGRASS SOD

A. Turfgrass Sod: Complying with "Specifications for Turfgrass Sod Materials" in TPI's "Guideline Specifications to Turfgrass Sodding." Furnish viable sod of uniform density, color, and texture, strongly rooted, and capable of vigorous growth and development when planted.

B. Turfgrass Species: Sod of grass species as follows:
1. Sod shall be composed of Kentucky bluegrass and rye grass cultivars cut at a uniform thickness of ¾ inch +/- ¼ inch and shall be free of weeds, disease and other imperfections.

   The sod shall come from a field in which the sod is grown on a sand or on a loamy sand with greater than 85% sand and shall have been mowed at a mowing height of no greater than 1 ½ inches high (bench setting). The sod shall not be more than 18 months in age. Submit sod source for approval prior to arrival of sod on site. The owner reserves the right to order testing of sod soil prior to delivery on site.

   The names of the cultivars comprising the sod shall be submitted and approved by the Owner before delivery to the site but shall be similar to the mix identified in Section 2.1 above. The Owner will inspect the sod field prior to purchase and delivery. The sod shall be planted within 24 hours of the time of harvest using a track installer machine. Owner reserves the right to reject sod pieces that are damaged or show injury. These shall be lifted and replaced with new sod immediately.

   The sod grower shall provide a particle size analysis of the soil on which the sod is grown from a laboratory certified by the American Association for Laboratory Accreditation, results submitted to the Owner prior to the site visit to inspect the sod.

2.3 TOPSOIL

A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, a minimum of 6 percent organic material content; free of stones 3/4 inch or larger in any dimension and other extraneous materials harmful to plant growth.
1. Topsoil Source: Reuse surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Screen and clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.
   a. Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient.
   b. All topsoil from off site is to be screened material. Re-use of on-site topsoil requires screening of topsoil stockpiled on site.

2.4 INORGANIC SOIL AMENDMENTS

A. Lime: ASTM C 602, agricultural limestone containing a minimum of 80 percent calcium carbonate equivalent and as follows:
1. Class: O, with a minimum of 95 percent passing through No. 8 sieve and a minimum of 55 percent passing through No. 60 sieve.

2.5 ORGANIC SOIL AMENDMENTS

A. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4-inch sieve; soluble salt content of 5 decisiemens/m.

B. Peat: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.

C. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

2.6 FERTILIZER

A. All fertilizers shall be horticultural grade complete formula fertilizers and shall conform to the applicable State Fertilizer laws.

B. New Turf Areas: Shall be a high phosphorus starter fertilizer. Fertilizer formula and application rate shall be as recommended by the soil testing laboratory base on soil test results.

2.7 EROSION CONTROL MATTING

A. Erosion Control Matting: Shall be as indicated on the Contract Drawings and in conformance with the manufacturer's recommendations.

PART 3 - EXECUTION

3.1 LAWN PREPARATION

A. Newly Graded Subgrades: Loosen subgrade to a minimum depth of 18 inches. Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
   1. Seeding shall be completed from August 15th through September 15th.
   2. Thoroughly topsoil before spreading or spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend topsoil mix.
   3. Spread topsoil mix to a minimum depth of 6 inches but not less than required to meet finish grades after light rolling and natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet.

B. Unchanged Subgrades: If lawns are to be planted in areas unaltered or undisturbed by excavating, grading, or surface-soil stripping operations, prepare surface soil as follows:
   1. Remove existing grass, vegetation, and turf. Do not mix into surface soil.
   2. Loosen surface soil to a depth of at least 8 inches. Apply soil amendments and fertilizers as necessary and mix thoroughly into top 6 inches of soil. Till soil to a homogeneous mixture of fine texture.
      a. Apply fertilizer directly to surface soil before loosening.
   3. Remove stones larger than 1 inch in any dimension and sticks, roots, trash, and other extraneous matter.
   4. Legally dispose of waste material, including grass, vegetation, and turf, off Owner's property.

C. Finish Grading: The topsoil shall be fine graded (micro graded) to the proposed lines and grades as indicated on the Contract Documents. The fine grading shall be conducted with laser grading techniques. Very closely spaced grade staking and string lines will not be accepted. The fine grading technique must be submitted by the Contractor to the Engineer for review and approval at least two (2) weeks before fine grading has started. Fine grading must result in a maximum tolerance from proposed grade of ± ½" with no areas where water may puddle and/or pond. Any additional topsoil needed to produce the required grading will be supplied and placed by the Contractor.

All equipment used to install, grade and fine grade topsoil shall be low ground pressure equipment suitable for the installation. Contractor is to submit for approval all equipment he intends to use for this work. Large loaders, bulldozers, and earthmoving equipment will not be allowed on the topsoil during placement or after rototilling. Equipment weighing of 16,000 pounds and equipment with high ground pressure contact will not be allowed on the turf areas after topsoil has been placed or rototilled without the approval of the Engineer.

D. Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

E. Before planting, restore areas if eroded or otherwise disturbed after finish grading.

3.2 SEEDING

A. Furnish and apply seed to the topsoil with a mechanical seeder.

B. Do not broadcast or drop seed when wind velocity exceeds 5 mph. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.

C. Sow seed at rates shown on the Contract Drawings. Apply seed evenly in two (2) directions with a mechanical seeder.

D. Hydroseeding is not acceptable.

E. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.

F. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a continuous blanket 1-1/2 inches in loose depth over seeded areas. Spread by hand, blower, or other suitable equipment.
   1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.

3.3 EROSION CONTROL MATTING

A. Erosion control matting shall be installed in accordance with the manufacturer's recommendations in the locations indicated on the Contract Drawings or as directed by the Engineer.

B. Where two lengths of matting are joined, the end of the up-grade strip shall overlap the down-grade strip.

C. The Contractor shall maintain and protect the areas with erosion control matting until such time as the turf grass is established. The Contractor shall replace or repair at his own expense any and all erosion control matting areas damaged by fire, water or other causes including the operation of construction equipment. No mowing will be required in the locations where erosion control matting is installed.

3.4 SODDING

A. Lay sod within 24 hours of harvesting. Do not lay sod if dormant or if ground is frozen or muddy.

B. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to subgrade or sod during installation. Tamp and roll lightly to ensure contact with topsoil, eliminate air pockets, and form a smooth surface. Work sifted soil or fine sand into minor cracks between pieces of sod; remove excess to avoid smothering sod and adjacent grass.
   1. Lay sod across angle of slopes exceeding 1:3.
   2. Anchor sod on slopes exceeding 1:6 with wood pegs spaced as recommended by sod manufacturer but not less than 2 anchors per sod strip to prevent slippage.

C. Saturate sod with fine water spray within two hours of planting. During first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches below sod.

3.5 LAWN MAINTENANCE

A. Maintain and establish lawn by watering, fertilizing, weeding, mowing, trimming, replanting, and other operations. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth lawn. Provide materials and installation the same as those used in the original installation.

B. Mow lawn as soon as top growth is tall enough to cut (4 inches). Repeat mowing to maintain specified height without cutting more than 1/3 of grass height. Remove no more than 1/3 of grass-leaf growth in initial or subsequent mowings.

3.6 SATISFACTORY LAWNS

A. Satisfactory Seeded Lawn: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 5 by 5 inches.

B. Use specified materials to reestablish lawns that do not comply with requirements and continue maintenance until lawns are satisfactory.

END OF SECTION
***

SECTION 32 93 00
PLANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
1. Shrubs
2. Plants
3. Organic Mulching

1.3 DEFINITIONS

A. Backfill: The earth used to replace or the act of replacing earth in an excavation.

B. Finish Grade: Elevation of finished surface of planting soil.

C. Manufactured Topsoil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.

D. Planting Soil: Native or imported topsoil, manufactured topsoil, or surface soil modified to become topsoil; mixed with soil amendments.

E. Subgrade: Surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill, before placing planting soil.

F. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.

G. Topsoil: The upper portion of a soil, typically the first layer from existing grade, usually dark colored and rich in organic matter and soil organisms.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Product Certificates.

C. Planting Schedule: Indicating anticipated planting dates for exterior plants.

D. Maintenance Instructions: Recommended procedures to be established by Owner for maintenance of exterior plants during a calendar year.

E. Bark Mulch: Provide 5-gallon sample for approval.

1.5 QUALITY ASSURANCE

A. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when planting is in progress.

B. Topsoil Analysis:

1. Furnish soil analysis by a qualified soil-testing laboratory. Provide a minimum of four (4) test samples taken from different areas on the site. Submit all test results to the Engineer for review and approval.
2. Report suitability of topsoil for plant growth. State-recommended quantities of nitrogen, phosphorus, and potash nutrients and soil amendments to be added to produce satisfactory topsoil.

C. Provide quality, size, genus, species, and variety of exterior plants indicated, complying with applicable requirements in ANSI Z60.1, "American Standard for Nursery Stock."

D. Form 817 - State of Connecticut Department of Transportation "Specifications for Road, Bridges, Facilities, and Incidental Construction" 2016 edition and latest supplements shall be used for materials compliance and execution of the work in this section, inclusive of specification modifications contained in this specification.

E. Preinstallation Conference: Conduct conference at Project site.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Do not prune trees and shrubs before delivery. Protect bark, branches, and root systems from sun scald, drying, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy their natural shape. Provide protective covering of exterior plants during delivery. Do not drop exterior plants during delivery and handling.

B. Handle planting stock by root ball.

C. Deliver exterior plants after preparations for planting have been completed and install immediately. If planting is delayed more than six hours after delivery, set exterior plants and trees in shade, protect from weather and mechanical damage, and keep roots moist.

1.7 WARRANTY

A. Special Warranty: Installer's standard form in which Installer agrees to repair or replace plantings that fail in materials, workmanship, or growth within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Death and unsatisfactory growth, except for defects resulting from lack of adequate maintenance, neglect, abuse by Owner, or incidents that are beyond Contractor's control.
b. Structural failures including plantings falling or blowing over.
2. Warranty Periods from Date of Substantial Completion:
a. Shrubs: One year.

1.8 MAINTENANCE SERVICE

A. Initial Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in Part 3. Begin maintenance immediately after each area is planted and continue until plantings are acceptably healthy and well established, but for not less than maintenance period below.
1. Maintenance Period for Shrubs: 12 months from date of planting completion.
2. Maintenance Period for Ground Covers and Plants: 12 months from date of planting completion.

PART 2 - PRODUCTS

2.1 SHRUB MATERIAL

A. General: Furnish nursery-grown shrubs complying with ANSI Z60.1, with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock free of disease, insects, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and disfigurement.

B. Root-Ball Depth: Furnish shrubs with root balls measured from top of root ball, which shall begin at root flare according to ANSI Z60.1. Root flare shall be visible before planting.

C. Provide balled and burlapped or container-grown trees.

2.2 TOPSOIL

A. Topsoil: ASTM D 5268, pH range of 5.5 to 7, a minimum of 6 percent organic material content; free of stones 1 inch or larger in any dimension and other extraneous materials harmful to plant growth.
   1. Topsoil Source: Reuse surface soil stockpiled on-site. Verify suitability of stockpiled surface soil to produce topsoil. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant growth.
      a. Supplement with imported or manufactured topsoil from off-site sources when quantities are insufficient.
      b. All topsoil from off site is to be screened material. Re-use of on-site topsoil requires screening of topsoil stockpiled on site.

2.3 INORGANIC SOIL AMENDMENTS

A. Lime: ASTM C 602, agricultural limestone containing a minimum of 80 percent calcium carbonate equivalent and as follows:
   1. Class: O, with a minimum of 95 percent passing through No. 8 sieve and a minimum of 55 percent passing through No. 60 sieve.

B. Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, with a minimum of 99 percent passing through No. 6 sieve and a maximum of 10 percent passing through No. 40 sieve.

2.4 ORGANIC SOIL AMENDMENTS

A. Compost: Well-composted, stable, and weed-free organic matter, pH range of 5.5 to 8; moisture content 35 to 55 percent by weight; 100 percent passing through 3/4-inch sieve; soluble salt content of 5 to 7 decisiemens/m.

B. Peat: Finely divided or granular texture, with a pH range of 6 to 7.5, containing partially decomposed moss peat, native peat, or reed-sedge peat and having a water-absorbing capacity of 1100 to 2000 percent.

C. Manure: Well-rotted, unleached, stable or cattle manure containing not more than 25 percent by volume of straw, sawdust, or other bedding materials; free of toxic substances, stones, sticks, soil, weed seed, and material harmful to plant growth.

2.5 FERTILIZER

A. Bonemeal: Commercial, raw or steamed, finely ground; a minimum of 4 percent nitrogen and 10 percent phosphoric acid.

2.6 MULCHES

A. Organic Mulch: Ground or shredded bark. Hemlock, cedar, or pine bark only. No dyed mulch.

2.7 PLANTING SOIL MIX

A. Planting Soil Mix: Mix topsoil with the following soil amendments and fertilizers in the following quantities:
1. Ratio of Loose Compost to Topsoil by Volume: 1:4.
2. Ratio of Loose Peat to Topsoil by Volume: 1:4.
3. Weight of Lime per 1000 Sq. Ft.: per PH test to achieve 6.0 – 6.5.

PART 3 - EXECUTION

3.1 PLANTING BED ESTABLISHMENT

A. Loosen subgrade of planting beds to a minimum depth of 12 inches. Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.

1. Thoroughly blend planting soil mix off-site before spreading; or spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend planting soil mix.
2. Spread planting soil mix to a depth of 12 inches but not less than required to meet finish grades after natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet.

B. Finish Grading: Grade planting beds to a smooth, uniform surface plane with loose, uniformly fine texture. Roll and rake, remove ridges, and fill depressions to meet finish grades.

3.2 SHRUBS

A. Excavation of Pits and Trenches for Shrubs: Excavate circular pits with sides sloped inward. Trim base leaving center area raised slightly to support root ball and assist in drainage. Do not further disturb base. Scarify sides of plant pit smeared or smoothed during excavation.

B. Before planting, verify that root flare is visible at top of root ball according to ANSI Z60.1.

C. Stock with Root Balls: Set shrubs plumb and in center of pit or trench with top of root ball flush with adjacent finish grades.
1. Balled and Burlapped: Remove burlap and wire baskets from tops of root balls and partially from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.
2. Container Grown: Carefully remove root ball from container without damaging root ball or plant.
3. Place planting soil mix around root ball in layers, tamping to settle mix and eliminate voids and air pockets. When pit is approximately one-half backfilled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed. Water again after placing and tamping final layer of planting soil mix.

D. Organic Mulching: Apply 4-inch average thickness of organic mulch extending 12 inches beyond edge of planting pit or trench. Do not place mulch within 3 inches of trunks or stems.

3.3 SHRUB PRUNING

A. Remove only dead, dying, or broken branches. Do not prune for shape.

3.4 PLANTING BED MULCHING

A. Mulch backfilled surfaces of planting beds and other areas indicated.

1. Organic Mulch: Apply 4-inch average thickness of mulch, and finish level with adjacent finish grades. Do not place mulch against plant stems.

3.5 PLANT MAINTENANCE

A. Shrub Maintenance: Maintain plantings by pruning, cultivating, watering, weeding, fertilizing, restoring planting saucers, and resetting to proper grades or vertical position, as required to establish healthy, viable plantings. Spray or treat as required to keep trees and shrubs free of insects and disease.

B. Protect exterior plants from damage due to landscape operations, operations by other contractors and trades, and others. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.

END OF SECTION

SECTION 33 40 00
STORM DRAINAGE

PART 1 - GENERAL

1.1 SUMMARY

A. Work under this section includes providing all materials, equipment, and services necessary to furnish and deliver work of this Section as shown on the Drawings, as specified, and as required by job conditions including, but not limited to the following:
   1. Catch Basins, Catch Basin/Drywells, Yard Drains, Yard Drain/Drywells, and Area Drains
   2. Manholes
   3. Storm Drain Pipe, Underdrains, Trench Drains and flared end sections

1.2 RELATED WORK SPECIFIED IN OTHER SECTIONS

A. Section 31 10 00 Site Clearing

B. Section 31 20 00 Earth Moving

C. Section 31 50 00 Excavation Support and Protection

D. Section 32 13 16 Cast-In-Place Concrete

1.3 SUBMITTALS

A. In accordance with the General Requirements, submit hydrodynamic separator unit samples, materials certifications, manufacturer's product data and test reports as hereinafter required.

B. Product data for drainage pipe, trench drain, gasket material, and any of the miscellaneous drainage items.

C. Shop drawings for concrete storm drainage manholes, catch basins, catch basin/drywells, yards drains, yard drain/drywells and area drains, including frames, covers, and grates.

D. Sieve analysis of filtering material.

E. Product data and sample of filter fabric.

1.4 QUALITY ASSURANCE

A. Form 817 - State of Connecticut Department of Transportation "Specifications for Roads, Bridges, Facilities and Incidental Construction" 2016 edition, and latest supplements shall be used for material compliance and execution of the work in this section, unless otherwise specified herein.

B. Workers: all workers shall be thoroughly trained and experienced in the necessary crafts, and completely familiar with the specified requirements and the methods needed for proper performance of the work of this section.

1.5 JOB CONDITIONS

A. Perform site survey, research public utility records, and verify existing utility locations. Verify that storm drainage system may be installed in compliance with original design and referenced standards.

B. Locate existing storm sewerage system piping and structures that are to be abandoned and closed or removed.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Provide pipe and pipe fitting materials compatible with each other. Refer to plans for specific material to be used.

B. Manholes and Catch Basins: Shall conform to CT DOT Form 817 Section 5.07.

C. Manholes Frames and Covers: shall conform to ASTM A 48-83, Class 30, heavy-duty, gray iron, 24-inch diameter by 7- to 9-inch riser with 4-inch minimum width flange, and 26-inch diameter cover indented top design, with lettering "STORM SEWER" or "SANITARY SEWER" cast into cover except where perforated covers are required.

D. Riprap: shall be broken stone, irregular size and shape, conforming to the CT DOT Form 817, Article M.12 for Modified Rip Rap.

E. Smooth lined corrugated polyethylene pipe (SLCPP/HDPE) shall conform to AASHTO M252 or M294, ADS-N12, Hancor Hi-Q, or approved equal, and all accessories.

F. Filter Fabric - Will be a non-woven geotextile fabric of polypropylene or polyester fibers, or a combination thereof, Exxon GTF 150D, or an approved equal, Mirafini N140NF or approved equal for infiltration system.

G. Filtering Material - Shall be an evenly graded mixture of natural or crushed gravel or crushed stone, and natural sand, with 100 percent passing a 1-1/2" sieve and 0-5 percent passing a No. 50 sieve.

H. Three quarter (3/4") broken stone or screened gravel: shall conform to CT DOT Form 817 Section M.01.01 for 3/4" stone (100% passes 2" square mesh sieve down to less than 5% passing 3/8" sieve) and standard of hardness of three or greater, according to Mohr's hardness scale, and free of silt, dirt, or debris.

I. Trench Drains: Shall be of the size and type as called out for on the Contract Drawings.

J. Concrete: Shall conform to Section 32 13 16 – Cast-In-Place Concrete

K. Mortar: Shall conform to CT DOT Form 817 Article M.11.04.

L. Pervious Material: Shall conform to CT DOT Form 817 Article M.02.05.

M. Bedding Material: Shall conform to CT DOT Form 817 Article M.08.03.

PART 3 - EXECUTION

3.1 PREPARATION OF FOUNDATION FOR BURIED STORM DRAINAGE SYSTEMS

A. Grade trench bottom to provide a smooth, firm, stable, and rock-free foundation, throughout the length of the pipe.

B. Remove unstable, soft, and unsuitable materials at the surface upon which pipes are to be laid, and backfill with clean sand or pea gravel to indicated level.

C. Shape bottom of trench to fit bottom of pipe. Fill unevenness with tamped bedding backfill. Dig bell holes at each pipe joint to relieve the bells of all loads and to ensure continuous bearing of the pipe barrel on the foundation.

D. Provide a minimum of 6" of 3/4" crushed stone for all structures, 12" beyond the outermost edge of the structure.

3.2 INSTALLATION, GENERAL

A. Drawings (plans and details) indicate the general location and arrangement of the underground storm sewerage system piping. Install the piping as indicated, to the extent practical.

B. Install piping beginning at low point of systems, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends facing upstream. Install gaskets, seals, sleeves, and couplings in accordance with manufacturer's recommendations for use of lubricants, cements, and other installation requirements. Maintain swab or drag in line and pull past each joint as it is completed.

C. Use manholes or catch basins for changes in direction, except where a fitting is indicated. Use fittings for branch connections, except where direct tap into existing sewer is indicated.

D. Install piping pitched down in direction of flow, at minimum slope of 1 percent, except where indicated otherwise.

E. Extend storm sewerage system piping to connect to building storm drains, including roof and foundation drains, of sizes and in locations indicated.

3.3 MANHOLES

A. Install manholes complete with accessories as indicated. Form continuous concrete or split pipe section channel and benches between inlets and outlet. Set tops of frames and covers flush with finish surfaces where manholes occur in pavements. Elsewhere, set tops 3 inches above finish surface, unless otherwise indicated on the Contract Drawings.

B. Place precast concrete manhole sections as indicated, and install in accordance with ASTM C 891.

C. Provide rubber joint gasket complying with ASTM C 443 at joints of sections.

3.4 CATCH BASINS

A. Construct catch basins to sizes and shapes indicated on the Contract Drawings.

B. Set frames and covers to elevations indicated on the Contract Drawings.

3.5 CONNECTIONS

A. Make connections to existing piping and underground structures so that finished work will conform as nearly as practicable to the requirement specified for new work.

B. Backfill soil compaction in trenches must be a minimum of 98% of standard Proctor density (95% in single-grain sands). Compaction of stone shall be outlined in the manufacturer's current installation guidelines.

C. The Contractor shall excavate an extra two feet around the base of the chamber bed excavation to provide working space for setting chambers and to facilitate compaction of backfill.

3.6 TRENCH DRAIN

A. This item shall be constructed in accordance with Section 6.51 of the State of Connecticut, Department of Transportation, "Specifications for Roads, Bridges, Facilities and Incidental Construction", Form 817, 2016 with latest supplements, and as detailed on the plans or as directed by the Engineer.

END OF SECTION
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PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SECTION 00400

(SCHEDULE OF VALUES)

ITEM 2.0 - H.S. CHASE ELEMENTARY SCHOOL

The following schedule of values is a breakdown of the amount bid for Item 2.0 – H.S. Chase Elementary School as listed above. The schedule of values will be used for reference when evaluating pay requisitions submitted by the contractor.

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
2.1	Mobilization & Site Preparation	The work under this item shall include all materials, equipment, and labor necessary for mobilization and administrative costs including the movement of all the contractor's field offices, buildings, facilities, safety fencing and equipment to and from the project site, and construction staking, as necessary to the performance of the work. This section shall also include any cost of associated with permitting and bonding. If test pits are needed, it will be considered work under this item; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
2.2	Site Removals	The work under this item shall include all materials, equipment and labor to perform the removal of all items shown on the plans including but not limited to the sawcut and removal/disposal of existing bituminous concrete pavement to full depth, and materials encountered incidental to construction as described in the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
2.3	Earthwork and Grading	The work under this item shall include all materials, equipment and labor to perform necessary grading operations as shown on the Contract Drawings and described in the Technical Specifications. Work under this item shall include grading in order to bring elevations to the subgrade elevation required prior to the application of processed stone and wood fiber mulch or topsoil. This work includes any importation of materials or removal of materials, including rock, from the site as required to achieve proposed subgrades The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price In Words	Lump Sum Bid Price in Figures
2.4	Fencing	The work under this item shall include all materials, equipment and labor to supply and install new chain link fencing, gates, sonotubes, posts, and foundations, including but not limited to concrete footings, fabric, fittings, latches, pipe, drop-bar assemblies, sleeves, swing gates, hardware and fasteners as shown on the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
2.5	Site Drainage	The work under this item shall include all materials, equipment and labor to supply and install storm drainage system and perforated underdrain system within the project site as shown on the Contract Drawings and described in the Specifications, including but not limited to trenching and backfilling, installation of appropriate bedding, drainage pipes, catch basins, manhole, stone drainage layer and all other associated work shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
2.6	Bituminous Concrete Curbing	The work under this item shall include all materials, equipment and labor to furnish and construct bituminous concrete curbing and placement of all materials necessary for the completion of the work as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of _____dollars and _____cents (in words)	($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
2.7	Playground Equipment	The work under this Item shall include all materials, equipment and labor to supply and install all playground equipment and accessories including concrete footings as shown on the Contract Drawings and described in the Specifications. The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
2.8	Playground Surfacing	The work under this item shall include all materials, equipment and labor to furnish and install engineered wood fiber mulch as shown on the Contract Drawings and described in the Specifications. The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

The Amount Bid for Item 2.0 - H.S. Chase Elementary School (sum of items 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, and 2.8) equals:

_____dollars

and_____cents [in words]

($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SECTION 00400

(SCHEDULE OF VALUES)

ITEM 3.0 - MARGARET M. GENERALI ELEMENTARY SCHOOL

The following schedule of values is a breakdown of the amount bid for Item 3.0 – Margaret M. Generali Elementary School as listed above. The schedule of values will be used for reference when evaluating pay requisitions submitted by the contractor.

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
3.1	Mobilization & Site Preparation	The work under this item shall include all materials, equipment, and labor necessary for mobilization and administrative costs including the movement of all the contractor's field offices, buildings, facilities, safety fencing and equipment to and from the project site, and construction staking, as necessary to the performance of the work. This section shall also include any cost of associated with permitting and bonding. If test pits are needed, it will be considered work under this item; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
3.2	Site Removals	The work under this item shall include all materials, equipment and labor to perform the removal of all items shown on the plans including but not limited to the removal / disposal of existing play equipment, wood mulch (full depth), chain link fence, removal & temporary storage of existing guiderail, saw cut and removal of bituminous concrete pavement (full depth), and materials encountered incidental to construction as described in the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
3.3	Sedimentation and Erosion Control	The work under this item shall include all materials, equipment and labor for the installation and maintenance of a construction entrance pad, sedimentation and erosion controls, including but not limited to sediment filter fence, hay bales, inlet protection required either by the plans, City staff or assigned representative, furnishing and placement of topsoil, establishment of vegetative cover for disturbed areas by the contractor, in accordance with the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
3.4	Earthwork and Grading	The work under this item shall include all materials, equipment and labor to perform necessary grading operations as shown on the Contract Drawings and described in the Technical Specifications. Work under this item shall include clearing and grubbing of lawn and topsoil to subgrade and grading in order to bring elevations to the subgrade elevation required prior to the application of processed stone, gravel stone base, bituminous concrete pavement, wood fiber mulch or topsoil. This work includes any importation of materials or removal of materials, including rock, from the site as required to achieve proposed subgrades The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
3.5	Fencing & Guiderail	The work under this item shall include all materials, equipment and labor to furnish and install fencing, supply and install new chain link fencing, swing gates, sonotubes, posts, guiderail, and foundations, including but not limited to concrete footings, fabric, fittings, latches, pipe, drop-bar assemblies, sleeves, hardware and fasteners as shown on the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
3.6	Site Drainage	The work under this item shall include all materials, equipment and labor to supply and install storm drainage system and perforated underdrain system within the project site as shown on the Contract Drawings and described in the Specifications, including but not limited to trenching and backfilling, sawcutting and pavement repair, installation of appropriate bedding, drainage pipes, area drains, underdrains, flat drains, stone drainage layer, and all other associated work shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
3.7	Playground Equipment	The work under this item shall include all materials, equipment and labor to furnish and install all playground equipment and accessories, including all concrete footings. as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: _____dollar s and _____cents (in words)	($_____) [in figures]
3.8	Playground Surfacing	The work under this item shall include all materials, equipment and labor to furnish and install engineered wood fiber mulch as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: _____dollar s and _____cents (in words)	($_____) [in figures]
3.9	Parking Area, Pavements and Curbing	The work under this item shall include all materials, equipment and labor to furnish and construct bituminous concrete driveway and parking lot areas. This item shall include all subbase and base courses, bituminous concrete, concrete curbing, line markings, signage and placement of all materials necessary for the completion of the work as shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

The Amount Bid for Item 3.0 - Margaret M. Generali Elementary School (sum of items 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, and 3.9) equals:

_____dollars

and_____cents [in words]

($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SECTION 00400

(SCHEDULE OF VALUES)

ITEM 1.0 - BUCKS HILL ELEMENTARY SCHOOL

The following schedule of values is a breakdown of the amount bid for Item 1.0 – Bucks Hill Elementary School as listed above. The schedule of values will be used for reference when evaluating pay requisitions submitted by the contractor.

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
1.1	Mobilization & Site Preparation	The work under this item shall include all materials, equipment, and labor necessary for mobilization and administrative costs including the movement of all the contractor's field offices, buildings, facilities, safety fencing and equipment to and from the project site, and construction staking, as necessary to the performance of the work. This section shall also include any cost of associated with permitting and bonding. If test pits are needed, it will be considered work under this item; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
1.2	Site Removals	The work under this item shall include all materials, equipment and labor to perform the removal of all items shown on the plans including but not limited to the removal / disposal of existing play equipment, wood edging, wood mulch, removal & temporary storage of existing chain link fence, and materials encountered incidental to construction as described in the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
1.3	Sedimentation and Erosion Control	The work under this item shall include all materials, equipment and labor for the installation and maintenance of a construction entrance pad, sedimentation and erosion controls, including but not limited to sediment filter fence, haybales, and inlet protection required either by the plans, or City staff or assigned representative, in accordance with the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
1.4	Earthwork and Grading	The work under this item shall include all materials, equipment and labor to perform necessary grading operations as shown on the Contract Drawings and described in the Technical Specifications. Work under this item shall include stripping topsoil, stockpiling and grading in order to bring elevations to the subgrade elevation required prior to the application of processed stone, wood fiber mulch or topsoil. This work includes any importation of materials or removal of materials from the site as required to achieve proposed subgrades The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
1.5	Fencing	The work under this item shall include all materials, equipment and labor to reinstall existing fencing, supply and install new chain link fencing, gates, sonotubes, posts, and foundations, including but not limited to concrete footings, fabric, fittings, latches, pipe, drop-bar assemblies, sleeves, swing gates, hardware and fasteners as shown on the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
1.6	Site Drainage	The work under this item shall include all materials, equipment and labor to supply and install storm drainage system and perforated underdrain system within the project site as shown on the Contract Drawings and described in the Specifications, including but not limited to trenching and backfilling, sawcutting & pavement repair, installation of appropriate bedding, drainage pipes, area drains, yard drains, underdrains, flat drains, stone drainage layer, and all other associated work shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
1.7	Playground Equipment	The work under this item shall include all materials, equipment and labor to furnish and install all playground equipment and accessories, including all concrete footings, play structures, and play equipment and sign as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: _____dollars And _____cents (in words)	
1.8	Playground Surfacing	The work under this item shall include all materials, equipment and labor to furnish and install playground surface including engineered wood fiber mulch as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: _____dollars And _____cents (in words)	
1.9	Topsoil, Seeding, & Establishment	The work under this item shall include all materials, equipment and labor to install all areas of lawn including amending and placement of topsoil and establishment for disturbed areas from construction, or contractor equipment, and removal of material from site. This work is shown on the Contract Drawings and described in the Technical Specifications under Turf & Grasses; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

The Amount Bid for Item 1.0 - Bucks Hill Elementary School (sum of items 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, and 1.9) equals:

_____
dollars

and_____cents [in words]

($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SECTION 00400

(SCHEDULE OF VALUES)

ITEM 4.0 - WALSH ELEMENTARY SCHOOL

The following schedule of values is a breakdown of the amount bid for Item 4.0 – Walsh Elementary School as listed above. The schedule of values will be used for reference when evaluating pay requisitions submitted by the contractor.

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
4.1	Mobilization and Site Preparation	The work under this item shall include all materials, equipment, and labor necessary for mobilization and administrative costs including the movement of all the contractor's field offices, buildings, facilities, safety fencing and equipment to and from the project site, and construction staking, as necessary to the performance of the work. This section shall also include any cost of associated with permitting and bonding. If test pits are needed, it will be considered work under this item; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
4.2	Site Removals	The work under this item shall include all materials, equipment and labor to perform the removal of all items shown on the plans including but not limited to the removal / disposal of existing play equipment, wood edging, wood mulch (full depth), chain link fence, saw cut and removal of bituminous concrete pavement (full depth), concrete sidewalk and materials encountered incidental to construction as described in the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
4.3	Sedimentation and Erosion Control	The work under this item shall include all materials, equipment and labor for the installation and maintenance of a construction entrance pad, sedimentation and erosion controls, including but not limited to sediment filter fence, hay bales, and inlet protection required either by the plans, or City staff or assigned representative, in accordance with the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
4.4	Earthwork and Grading	The work under this item shall include all materials, equipment and labor to perform necessary grading operations as shown on the Contract Drawings and described in the Technical Specifications. Work under this item shall include grading in order to bring elevations to the subgrade elevation required prior to the application of processed stone, gravel stone base, bituminous concrete pavement, wood fiber mulch or top soil. This work includes any importation of materials or removal of materials from the site, including rock, as required to achieve proposed subgrades The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
4.5	Fencing and Railing	The work under this item shall include all materials, equipment and labor to supply and install new metal handrail, chain link fencing, swing gates, sonotubes, posts, and foundations, including but not limited to concrete footings, fabric, fittings, latches, pipe, drop-bar assemblies, sleeves, hardware and fasteners as shown on the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]
4.6	Site Drainage	The work under this item shall include all materials, equipment and labor to supply and install storm drainage system and perforated underdrain system within the project site as shown on the Contract Drawings and described in the Specifications, including but not limited to trenching and backfilling, saw cutting & pavement repair, installation of appropriate bedding, drainage pipes, underdrains, flat drains, manholes, and all other associated work shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
4.7	Concrete Sidewalks, Stairs, and Curbing	The work under this item shall include all materials, equipment and labor to furnish and construct concrete sidewalk, stairs, and curbing. This item shall include all subbase and base courses, concrete, and placement of all materials necessary for the completion of the work as shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	
4.8	Playground Equipment	The work under this item shall include all materials, equipment and labor to furnish and install all playground equipment and accessories, including all concrete footings as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: _____dollars And _____cents (in words)	
4.9	Playground Surfacing	The work under this item shall include all materials, equipment and labor to furnish and install poured-in-place rubberized safety surface including a manufacturer specified crushed stone base as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: _____dollars And _____cents (in words)	
4.10	Topsoil, Plantings, and Bark Mulch	The work under this item shall include all materials, equipment and labor to install all areas of plant beds including amending and placement of topsoil, plantings, and bark mulch as shown on the Contract Drawings and described in the Technical Specifications under Plantings; The lump sum price of: _____dollars and_____cents [in words]	($_____) [in figures]

The Amount Bid for Item 4.0 - Walsh Elementary School (sum of items 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, and 4.10) equals:

_____dollars

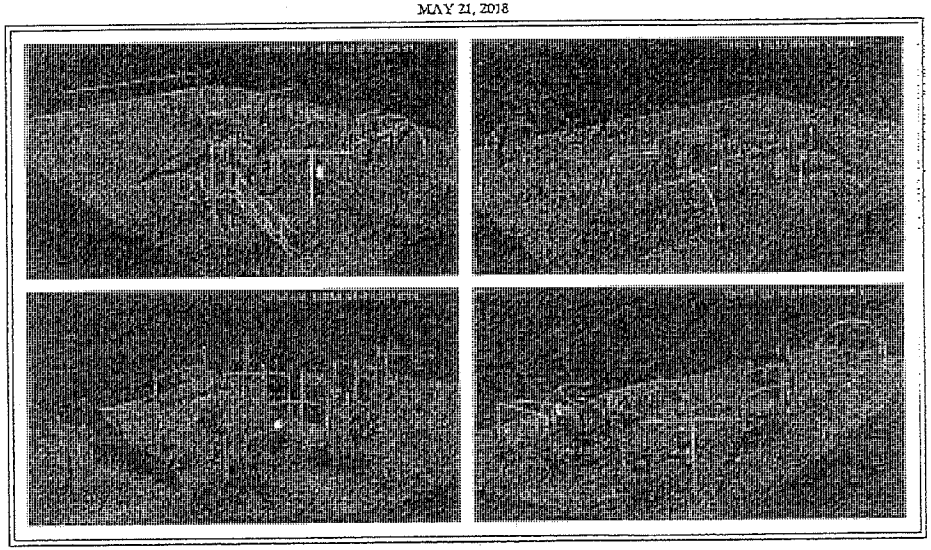
and_____cents [in words]

($_____) [in figures]

WATERBURY PLAYGROUND IMPROVEMENTS AT BUCKS HILL, CHASE, GENERALI, & WALSH ELEMENTARY SCHOOLS

WATERBURY DEVELOPMENT CORPORATION
83 BANK STREET
WATERBURY, CONNECTICUT

BID DOCUMENTS
MAY 21, 2018



PLAYGROUND COMPONENT RENDERINGS

PREPARED BY:

MILONE & MACBROOM®

99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773
www.milone-macbroom.com

Know what's below.
Call before you dig.
www.cbyd.com

PREPARED FOR:

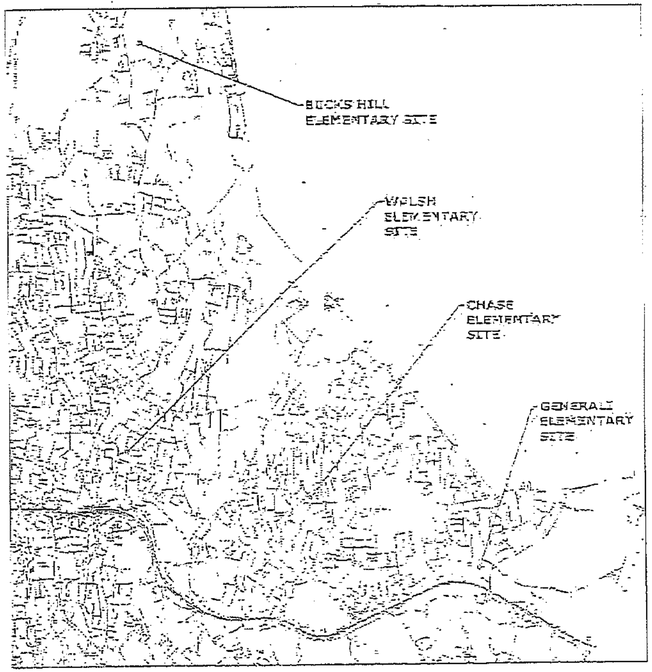
WATERBURY DEVELOPMENT CORPORATION
83 BANK STREET
WATERBURY, CONNECTICUT 06702

LANDSCAPE ARCHITECT/CIVIL ENGINEER/SURVEYOR

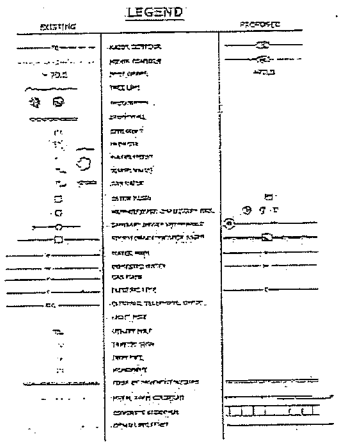
MILONE & MACBROOM, INC.
99 REALTY DRIVE
CHESHIRE, CONNECTICUT 06410
(203) 271-1773

LIST OF DRAWINGS

NO.	NAME	TITLE
00		TITLE SHEET
01	IN	INDEX, NOTES & LEGEND
BUCKS HILL ELEMENTARY SCHOOL		
02	BH-1	SITE PLAN- EXISTING CONDITIONS AND REMOVALS
03	BH-2	SITE PLAN- LAYOUT AND MATERIALS
04	BH-3	SITE PLAN- GRADING AND UTILITIES
05	BH-4	ISOMETRIC PLAYGROUND VIEWS
CHASE ELEMENTARY SCHOOL		
06	CH-1	SITE PLAN- EXISTING CONDITIONS AND REMOVALS
07	CH-2	SITE PLAN- LAYOUT AND MATERIALS
08	CH-3	SITE PLAN- GRADING AND UTILITIES
09	CH-4	ISOMETRIC PLAYGROUND VIEWS
GENERALI ELEMENTARY SCHOOL		
10	GE-1	SITE PLAN- EXISTING CONDITIONS AND REMOVALS
11	GE-2	SITE PLAN- LAYOUT AND MATERIALS
12	GE-3	SITE PLAN- GRADING AND UTILITIES
13	GE-4	ISOMETRIC PLAYGROUND VIEWS
WALSH ELEMENTARY SCHOOL		
14	WA-1	SITE PLAN- EXISTING CONDITIONS AND REMOVALS
15	WA-2	SITE PLAN- LAYOUT, MATERIALS AND LANDSCAPING
16	WA-3	SITE PLAN- GRADING AND UTILITIES
17	WA-4	ISOMETRIC PLAYGROUND VIEWS
SITE DETAILS		
18	SD-1	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
19	SD-2	SITE DETAILS
20	SD-3	SITE DETAILS
21	SD-4	SITE DETAILS
22	1 OF 1	CT DOT STANDARD SHEET



WATERBURY PLAYGROUND IMPROVEMENTS INDEX PLAN



PLAYGROUND EQUIPMENT NOTES FOR AGES 5-12:

1. THE PLAY COMPONENTS IDENTIFIED ON THESE PLANS SHALL BE IPEMA CERTIFIED. THE USE AND LAYOUT OF THE COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1487, AND COMPLY WITH ALL APPLICABLE CPSC, ADA, AND ASTM STANDARDS.

2. THERE SHALL BE NO SHARP POINTS, CORNERS, OR EDGES ON ANY COMPONENTS OF THE PLAYGROUND EQUIPMENT THAT COULD CUT OR PUNCTURE CHILDREN'S SKIN. THE EXPOSED OPEN ENDS OF ALL TUBING NOT RESTING ON THE GROUND OR OTHERWISE COVERED SHALL BE COVERED BY CAPS OR PLUGS THAT CANNOT BE REMOVED WITHOUT THE USE OF TOOLS. ALL METAL EDGES SHALL BE ROLLED OR HAVE ROUNDED CAPPINGS. THERE SHALL BE NO SHARP EDGES ON SLIDES.

3. THERE SHALL BE NO PROTRUSIONS OR PROJECTIONS ON THE PLAYGROUND EQUIPMENT THAT COULD BE CAPABLE OF ENTANGLING CHILDREN'S CLOTHING.

4. THERE SHALL BE NO ACCESSIBLE PINCH, CRUSH OR SHEARING POINTS ON THE PLAYGROUND EQUIPMENT THAT COULD CAUSE [illegible] CHILDREN'S CLOTHING.

5. PLAYGROUND EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED SO THAT ACCESSIBLE OPENINGS IN PLAY EQUIPMENT AND STRUCTURES DO NOT PASS A SPHERE RANGING IN SIZE FROM 3.5" TO 9" IN DIAMETER.

6. THE DIAMETER OR WIDTH OF HANDRAILS SHALL BE 0.95 INCHES MINIMUM TO 1.55 INCHES MAXIMUM. THE TOP OF HANDRAILS OR [illegible] SHALL BE 20 INCHES MINIMUM AND 38 INCHES MAXIMUM HIGH ABOVE THE GROUND SURFACE.

7. THE DIMENSIONS FOR ACCESS SLOPE, TREAD OR RUNG WIDTH, TREAD DEPTH, RUNG DIAMETER, AND VERTICAL RISE FOR FLAT LADDERS, STAIRLADDERS, STAIRWAYS, AND RAMPS SHALL COMPLY WITH TABLE 2 (ASTM F-1487).

8. ALL GROUND LEVEL PLAY COMPONENTS SHALL COMPLY WITH THE REACH RANGE SPECIFIED IN THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (TABLE [illegible]).

9. THE PLAYGROUND SAFETY SURFACING SHALL BE STABLE, FIRM, SLIP-RESISTANT, AND SHALL MEET OR EXCEED U.S. CONSUMER PRODUCT SAFETY COMMISSION GUIDELINES FOR CRITICAL HEIGHT BASED ON ASTM F-1292 IMPACT ATTENUATION TESTING FOR THE FALL HEIGHTS REQUIRED BY THE PLAY COMPONENTS INCLUDED IN THE DESIGN. THE CURRENT DESIGN, PER THE MANUFACTURER OF THE PLAY EQUIPMENT CALLS FOR MEETING A FALL HEIGHT OF [illegible]. THE CONTRACTOR SHALL CONFIRM THE FINAL MAXIMUM FALL HEIGHT REQUIREMENTS AND APPROPRIATE SURFACING THICKNESS WITH THE PLAYSCAPE MANUFACTURER PRIOR TO CONSTRUCTION. FOR LOOSE FILL SURFACING MATERIALS, THE INITIAL FILL SHALL BE 25% GREATER THAN WHAT IS REQUIRED FOR THE SPECIFIED MAXIMUM FALL HEIGHT TO ACCOMMODATE COMPACTION/WEATHERING. SURFACING MATERIALS SHALL ALSO COMPLY WITH ASTM F-1951.

10. PLAYGROUND SURFACE SLOPES SHALL NOT EXCEED 2% (1:50) IN ANY DIRECTION.

11. AFTER ASSEMBLY AND BEFORE IT IS USED, EQUIPMENT MUST BE THOROUGHLY INSPECTED BY AN INSPECTOR, HIRED BY THE OWNER. THE INSPECTOR MUST BE A PLAYGROUND INSPECTOR CERTIFIED BY THE NATIONAL PLAYGROUND SAFETY INSTITUTE AND THE NATIONAL RECREATION AND PARK ASSOCIATION.

12. ALL ACCESSIBLE ROUTES SLOPES SHALL BE 1:20 (5%) OR LESS, AND THE CROSS-SLOPES SHALL NOT EXCEED 1:50 (2%). SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS A RAMP OR A LIFT IS PROVIDED. CHANGES IN LEVEL 1/4" MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL SHALL NOT EXCEED 1/2".

13. THE MINIMUM WIDTH OF THE ACCESSIBLE ROUTE AT GROUND LEVEL SHALL BE 60 INCHES MINIMUM. THE MINIMUM WIDTH OF THE ACCESSIBLE ROUTE CONNECTING ELEVATED PLAY COMPONENTS SHALL BE 36 INCHES MINIMUM AND 24 INCHES MINIMUM FOR TRANSFER SYSTEMS CONNECTING ELEVATED PLAY COMPONENTS.

14. THE SLIDE EXIT REGION SHALL BE AT LEAST 11 INCHES LONG. THE SLIDE EXIT REGION SHALL BE NO MORE THAN 11 INCHES ABOVE THE PROTECTIVE SURFACING IF THE SLIDE IS NO MORE THAN 4 FEET HIGH. THE SLIDE EXIT REGION SHALL BE BETWEEN 7 INCHES AND 15 INCHES ABOVE THE PROTECTIVE SURFACING IF THE SLIDE IS OVER 4 FEET HIGH. THE SLOPE OF THE EXIT REGION SHALL BE BETWEEN 0 AND -4 DEGREES AS MEASURED FROM A PLANE PARALLEL WITH THE PROTECTIVE SURFACE.

GENERAL NOTES

1. TOPOGRAPHIC INFORMATION AT EACH SCHOOL IS BASED UPON FIELD SURVEYS PERFORMED BY MILONE & MACBROOM, INC. AND DATED AS:
   - 1.1. TOPOGRAPHIC SURVEY - BUCKS HILL ELEMENTARY SCHOOL, DATED MARCH 14 2013
   - 1.2. TOPOGRAPHIC SURVEY - H.S. CHASE ELEMENTARY SCHOOL, DATED MARCH 14 2013
   - 1.3. TOPOGRAPHIC SURVEY - [illegible] GENERALI ELEMENTARY SCHOOL, DATED MARCH 14 2013
   - 1.4. TOPOGRAPHIC SURVEY - WELSH ELEMENTARY SCHOOL, DATED MARCH 14 2013

2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG" 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH [illegible] SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

3. MILONE & MACBROOM, INC. ACCEPTS NO RESPONSIBILITY FOR THE INACCURACY OF MAPS AND DATA WHICH WAS [illegible] SUPPLIED BY OTHERS.

4. ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE, CABLE TELEVISION AND GAS ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.

5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

6. SEDIMENT AND EROSION CONTROL MEASURES ARE AN INTEGRAL PART OF THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED [illegible] UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT 2002, AND ALL LOCAL BEST MANAGEMENT PRACTICES [illegible].

7. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4" TOPSOIL AND BE SEEDED WITH GRASS, AS SHOWN ON THE PLANS.

8. ALL STORM SEWER PIPE SHALL BE SMOOTH WALL CORRUGATED PLASTIC PIPE (HDPE) UNLESS OTHERWISE INDICATED.

9. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.

10. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE CITY OF WATERBURY REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 816 AND ADDENDUMS.

11. THE PLANS REQUIRE A CONTRACTOR'S THOROUGH KNOWLEDGE OF LOCAL, MUNICIPAL, STATE, AND FEDERAL CODES [illegible] UTILITY SYSTEMS. ANY CONFLICT BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER SHALL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT [illegible] THAT DOES NOT CONFORM TO REGULATIONS.

12. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHALL BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.

13. [illegible] WITH THE [illegible] BETWEEN THE CONTRACTOR AND THE PERMITTEE.

14. COORDINATE DRAINAGE WITH THE LAYOUT OF THE PLAYGROUND STRUCTURE [illegible] PRIOR TO INSTALLATION.

DESCRIPTION	DATE	BY

MILONE & MACBROOM®

INDEX, NOTES & LEGEND

WATERBURY PLAYGROUND IMPROVEMENTS

83 BANK STREET
WATERBURY, CONNECTICUT

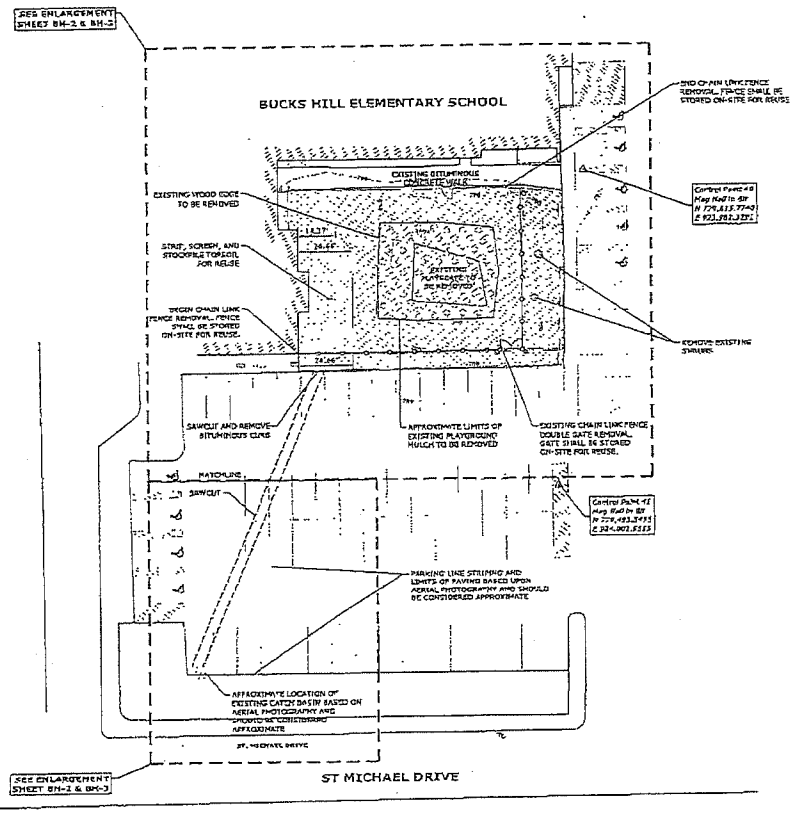
RRG | JJM | RRG

AS NOTED

MAY 21, 2013

1613-24

IN



REMOVALS NOTES:

1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE. AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CLICK BEFORE YOU DIG" 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
2. INFORMATION SHOWN ON THIS DRAWING IS TO BE USED FOR REFERENCE ONLY. THE LOCATION, SIZE AND ELEVATIONS OF UTILITIES AND STRUCTURES AND THE NATURE OF THEIR CONTENTS SHALL BE CONFIRMED IN THE FIELD PRIOR TO DEMOLITION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO DEMOLITION.
3. THE INTENT OF THIS DRAWING IS TO IDENTIFY SPECIFIC DEMOLITIONS. HOWEVER, THE GRAPHIC LEGEND MAY NOT BE A COMPREHENSIVE LIST OF ALL SITE REMOVALS.
4. ALL UNDERGROUND UTILITIES NOT SHOWN TO BE REMOVED SHALL HAVE SERVICE MAINTAINED AND SHALL BE PROTECTED DURING CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE TO OBTAIN PERMITS REQUIRED AND COMPLY WITH ALL REGULATIONS IN THE DEMOLITION AND REMOVAL OF THE DESIGNATED STRUCTURES.
6. INSTALL ALL SEDIMENT AND EROSION CONTROLS PRIOR TO BEGINNING DEMOLITION WORK.
7. ANY MATERIALS DEEMED UNSUITABLE BY THE ENGINEER SHALL BE DISPOSED OF OFF-SITE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH THE HAULING AND DISPOSAL OF ALL MATERIALS.

REMOVALS LEGEND

- REMOVE AND DISPOSE OF EXISTING PLAY EQUIPMENT AND WOOD MULCH TO FULL DEPTH
- CLEAR AND GRUB
- STRIP, SCREEN AND STOCKPILE TOPSOIL FOR REUSE

MILONE & MACBROOM®

DESCRIPTION	DATE	BY

SITE PLAN- EXISTING CONDITIONS AND REMOVALS

BUCKS HILL ELEMENTARY SCHOOL
WATERBURY PLAYGROUND IMPROVEMENTS
319 BUCKS HILL ROAD
WATERBURY, CONNECTICUT

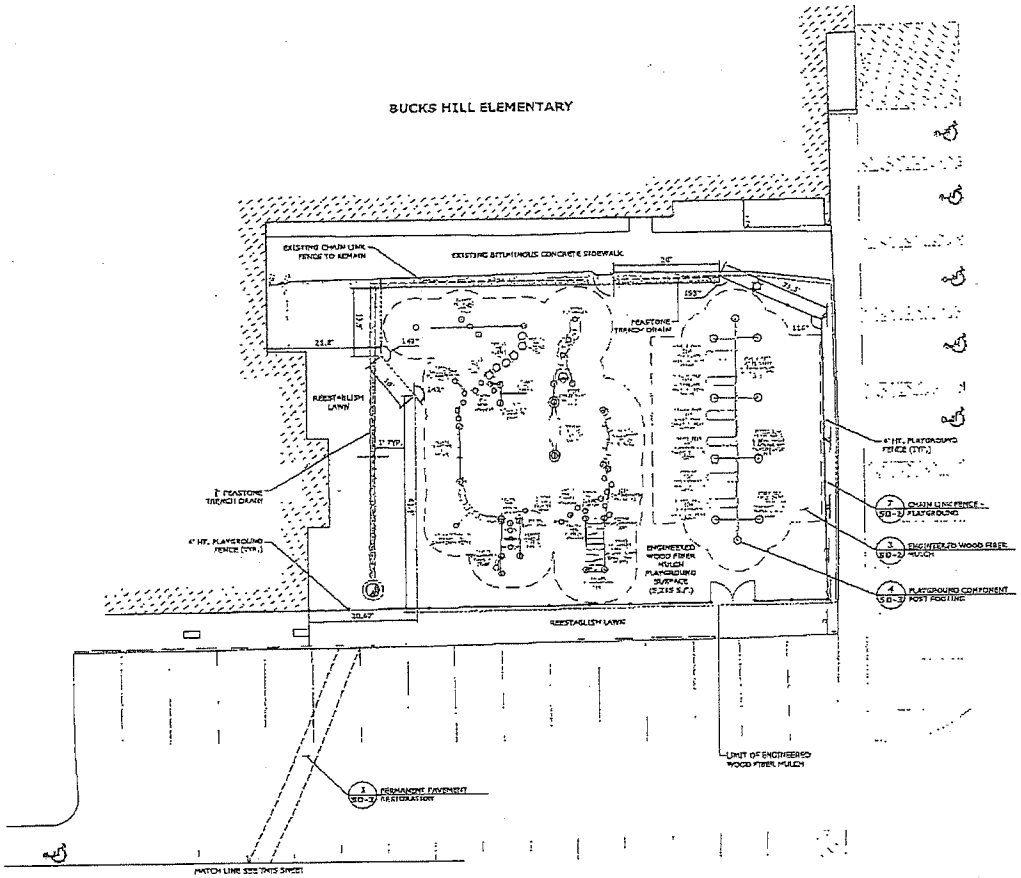
RRC	JJM	RRC
DESIGNED	DRAWN	CHECKED

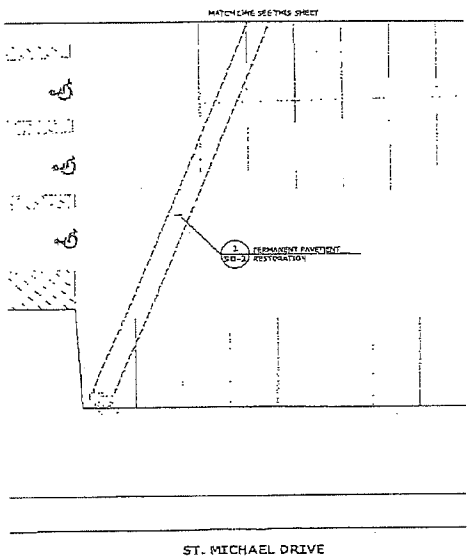
1"=20'

MAY 21, 2018

1014-70

BH-1





LAYOUT NOTES

1. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. ALL AREAS TO BE DISTURBANCE OUTSIDE OF THE PROPOSED CONTRACT LIMIT ARE TO BE SPREAD WITH 6" MIN. OF TOPSOIL, FERTILIZED AND LIMED AS REQUIRED AND SEEDED TO LAWN.

PLAYGROUND EQUIPMENT:

1. PLAYGROUND EQUIPMENT SHOWN IS FOR REFERENCE PURPOSES ONLY. EXACT LAYOUT OF PLAYGROUND EQUIPMENT TO BE COORDINATED WITH THE PLAYGROUND EQUIPMENT MANUFACTURER. PROVIDE SHOP DRAWINGS FOR REVIEW.

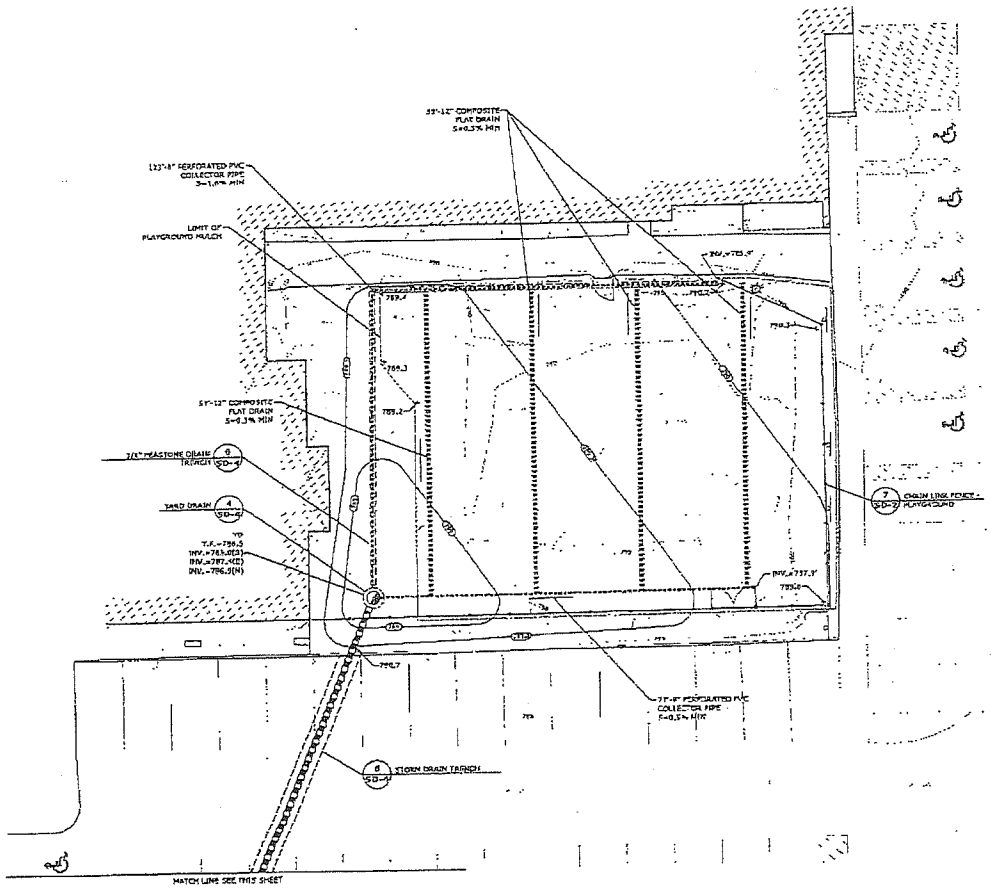
MILONE & MACBROOM®
99 Realty Drive
Cheshire, CT 06410-1139
(203) 271-1773 Fax (203) 271-1773
www.milone-macbroom.com

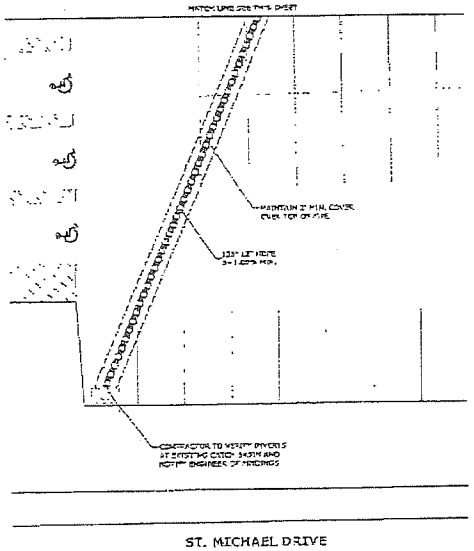
DESCRIPTION	DATE	BY

SITE PLAN - LAYOUT AND MATERIALS
BUCKS HILL ELEMENTARY SCHOOL
WATERBURY PLAYGROUND IMPROVEMENTS
200 BUCKS HILL ROAD
WATERBURY, CONNECTICUT

RRC	JJM	RRC
DESIGNED	DRAWN	CHECKED

1"=10'
SCALE
MAY 21, 2014
DATE
1014-70
PROJECT NO.
SHEET NO.
BH 2





LEGEND

789.2	EXISTING SPOT ELEVATION
789.3	PROPOSED SPOT ELEVATION
790	EXISTING CONTOUR
790	PROPOSED CONTOUR
TC 126.6 / BC 125.5	TOP OF CURB / BOTTOM OF CURB

GRADING NOTES:

1. ACCESSIBLE ROUTE SLOPES SHALL BE LESS (5%) OR LESS AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/2 INCH, AND SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED.
2. THE PLAYGROUND SHALL HAVE SLOPES LESS THAN 2% OR LESS IN ALL DIRECTIONS.
3. IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROADS/SIDEWALKS/CURB, THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE.
4. MANUFACTURER IS RESPONSIBLE FOR PROVIDING EQUIPMENTS THAT MEETS ALL ACCESSIBILITY REQUIREMENTS FOR PLAYGROUND COMPONENTS.

MILONE & MACBROOM®

DATE	BY	DESCRIPTION

SITE PLAN- GRADING AND UTILITIES

BUCKS HILL ELEMENTARY SCHOOL
WATERBURY PLAYGROUND IMPROVEMENTS
338 BUCKS HILL ROAD
WATERBURY, CONNECTICUT

RRC	JJM	RRC

1"=10'

MAY 21, 2010

1814-70

BH 3

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

Minimum Rates and Classifications
for Heavy/Highway Construction

ID#: H 24434

Connecticut Department of Labor
Wage and Workplace Standards Division

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number:

Project Town: Waterbury

FAP Number:

State Number:

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

CLASSIFICATION	Hourly Rate	Benefits
01) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters. **See Laborers Group 5 and 7**		
1) Boilermaker	33.79	34% + 8.96
1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons	33.48	31.66
2) Carpenters, Piledrivermen	32.60	25.34

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

2a) Diver Tenders	32.60	25.34
3) Divers	41.06	25.34
03a) Millwrights	33.14	25.74
4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray	48.55	20.45
4a) Painters: Brush and Roller	32.72	20.45
4b) Painters: Spray Only	35.72	20.45
4c) Painters: Steel Only	34.72	20.45

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

4d) Painters: Blast and Spray	35.72	20.45
4e) Painters: Tanks, Tower and Swing	34.72	20.45
5) Electrician (Trade License required: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	38.27	25.00+3% of gross wage
6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection	35.47	33.39 + a
7) Plumbers (Trade License required: (P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2) and Pipefitters (Including HVAC Work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4 G-1, G-2, G-8, G-9)	41.62	30.36
----LABORERS---- -		
8) Group 1: Laborer (Unskilled), Common or General, acetylene burner, concrete specialist	29.25	19.50

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen	29.50	19.50
10) Group 3: Pipelayers	29.75	19.50
11) Group 4: Jackhammer/Pavement breaker (handheld); mason tenders (cement/concrete), catch basin builders, asphalt rakers, air track operators, block paver, curb setter and forklift operators	29.75	19.50
12) Group 5: Toxic waste removal (non-mechanical systems)	31.25	19.50
13) Group 6: Blasters	31.00	19.50
Group 7: Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe)	30.25	19.50
Group 8: Traffic control signalmen	16.00	19.50

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

Group 9: Hydraulic Drills	29.30	18.90

----LABORERS (TUNNEL CONSTRUCTION, FREE AIR). Shield Drive and Liner Plate Tunnels in Free Air.----

13a) Miners, Motormen, Mucking Machine Operators, Nozzle Men, Grout Men, Shaft & Tunnel Steel & Rodmen, Shield & Erector, Arm Operator, Cable Tenders	32.22	19.50 + a
13b) Brakemen, Trackmen	31.28	19.50 + a

----CLEANING, CONCRETE AND CAULKING TUNNEL----

14) Concrete Workers, Form Movers, and Strippers	31.28	19.50 + a
15) Form Erectors	31.60	19.50 + a

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

----ROCK SHAFT LINING, CONCRETE, LINING OF SAME AND TUNNEL IN FREE AIR:----

16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers	31.28	19.50 + a
17) Laborers Topside, Cage Tenders, Bellman	31.17	19.50 + a
18) Miners	32.22	19.50 + a

----TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED AIR: ----

18a) Blaster	38.53	19.50 + a
19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	38.34	19.50 + a

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

20) Change House Attendants, Powder Watchmen, Top on Iron Bolts	36.41	19.50 + a
21) Mucking Machine Operator	39.11	19.50 + a

----TRUCK DRIVERS----(*see note below)

Two axle trucks	29.13	22.32 + a
Three axle trucks; two axle ready mix	29.23	22.32 + a
Three axle ready mix	29.28	22.32 + a
Four axle trucks, heavy duty trailer (up to 40 tons)	29.33	22.32 + a

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

Four axle ready-mix	29.38	22.32 + a
Heavy duty trailer (40 tons and over)	29.58	22.32 + a
Specialized earth moving equipment other than conventional type on-the road trucks and semi-trailer (including Euclids)	29.38	22.32 + a
----POWER EQUIPMENT OPERATORS----		
Group 1: Crane handling or erecting structural steel or stone, hoisting engineer (2 drums or over), front end loader (7 cubic yards or over), Work Boat 26 ft. & Over, Tunnel Boring Machines. (Trade License Required)	39.30	24.05 + a
Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver ($3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)	38.98	24.05 + a
Group 3: Excavator/Backhoe under 2 cubic yards; Cranes (under 100 ton rated capacity), Gradall; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar);Grader Operator; Bulldozer Fine Grade (slopes, shaping, laser or GPS, etc.). (Trade License Required)	38.24	24.05 + a

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper)	37.85	24.05 + a
Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Spreader; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24" Mandrell)	37.26	24.05 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	37.26	24.05 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	36.95	24.05 + a
Group 7: Asphalt Roller; Concrete Saws and Cutters (ride on types); Vermeer Concrete Cutter; Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and Under Mandrel).	36.61	24.05 + a
Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.	36.21	24.05 + a
Group 9: Front End Loader (under 3 cubic yards), Skid Steer Loader regardless of attachments (Bobcat or Similar); Fork Lift, Power Chipper; Landscape Equipment (including hydroseeder).	35.78	24.05 + a

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc.	33.74	24.05 + a
Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment.	33.74	24.05 + a
Group 12: Wellpoint Operator.	33.68	24.05 + a
Group 13: Compressor Battery Operator.	33.10	24.05 + a
Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain).	31.96	24.05 + a
Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	31.55	24.05 + a
Group 16: Maintenance Engineer/Oiler	30.90	24.05 + a

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	35.21	24.05 + a
Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license).	32.79	24.05 + a

**NOTE: SEE BELOW

----LINE CONSTRUCTION----(Railroad Construction and Maintenance)----

20) Lineman, Cable Splicer, Technician	48.19	6.5% + 22.00
21) Heavy Equipment Operator	42.26	6.5% + 19.88
22) Equipment Operator, Tractor Trailer Driver, Material Men	40.96	6.5% + 19.21

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

23) Driver Groundmen	26.50	6.5% + 9.00
23a) Truck Driver	40.96	6.5% + 17.76

----LINE CONSTRUCTION----

24) Driver Groundmen	30.92	6.5% + 9.70
25) Groundmen	22.67	6.5% + 6.20
26) Heavy Equipment Operators	37.10	6.5% + 10.70
27) Linemen, Cable Splicers, Dynamite Men	41.22	6.5% + 12.20

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

28) Material Men, Tractor Trailer Drivers, Equipment Operators	35.04	6.5% + 10.45

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

Welders: Rate for craft to which welding is incidental.

**Note: Hazardous waste removal work receives additional $1.25 per hour for truck drivers.*

***Note: Hazardous waste premium $3.00 per hour over classified rate*

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra $4.00 premium in addition to the hourly wage rate and benefit contributions:

1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)

2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson

3) Cranes (under 100 ton rated capacity)

Crane with 150 ft. boom (including jib) - $1.50 extra
Crane with 200 ft. boom (including jib) - $2.50 extra
Crane with 250 ft. boom (including jib) - $5.00 extra
Crane with 300 ft. boom (including jib) - $7.00 extra
Crane with 400 ft. boom (including jib) - $10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyperson instructing and supervising the work of each apprentice in a specific trade.

~~Connecticut General Statute Section 31-55a: Annual Adjustments to wage rates by contractors doing state work~~

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page: www.ct.gov/dol.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

As of: Tuesday, April 17, 2018

Project: Playground Replacement At Chase School, Bunker School, Generali School And Walsh School

Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

--Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

As of: Tuesday, April 17, 2018

ROCCO ORSO
PURCHASING DIRECTOR

OFFICE OF THE DIRECTOR OF PURCHASING

THE CITY OF WATERBURY

CONNECTICUT

ADDENDUM #1

May 10, 2018
Bid: 6110
Project: Playground Improvements

It has come to our attention that the prevailing wages where not posted with the rest of the bid documents on the eBid Website.
They have now been posted.

Thanks
Kevin McCaffery
Buyer – City of Waterbury

235 GRAND STREET • WATERBURY, CONNECTICUT 06702 • PHONE (203) 574-6740 • FAX (203) 597-3437

ROCCO ORSO
PURCHASING DIRECTOR

OFFICE OF THE DIRECTOR OF PURCHASING

THE CITY OF WATERBURY

CONNECTICUT

ADDENDUM #2

May 14, 2018
Bid: 6110
Project: Playground Improvements

The following questions have been received about this project.

I would like to see about becoming an approved equal for the safety surface portion. How would you like us to get you our specifications? No substitutions will be allowed.

Is this a prevailing wage project subject to Davis Bacon law? Can you provide the wage rates? Will certified payrolls be required? The prevailing wage document is on the website. (*Labeled:* **4.25.2018 Prevailing wage rates-Playground Improvements.**)

Will the city of Waterbury provide a place to dump any of the following materials: asphalt, clean fill, excess topsoil? No

Will the City of Waterbury clean out any catch basins which impact the work before work starts? Yes.

Do you want section 00400 (schedule of values) filled out and included with the bid or is this just to be filled out after an award is made? With the bid.

Can you please attach the pre-bid meeting sign-in sheet to the next addendum issued? See attached.

Thanks
Kevin McCaffery
Buyer – City of Waterbury

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MILONE & MACBROOM

SIGN-IN SHEET

Waterbury Playgrounds at Bucks Hill, Chase, Generali, and Walsh Schools
Mandatory Prebid Meeting
May 9, 2018 – 10:00 am

NAME	COMPANY	TELEPHONE	EMAIL
Charles Pike	B & W Paving	860-572-9982	betty@bandwpavinc.com
Dan Czapor	Richards Corporation	860-583-9229	dczapor@richardscorp.com
Anthony Corsetti	P. Corsetti	914-698-5024	Anthony@corsetticontracting.com
Lori Thibeault	NEREC/ Play and Park	860-885-9372	lori@nerecgroup.com
Ryan Chmielewski	MMI	203-27[illegible]-1773	Rchmielewski@mminc.com
Jason Morehouse	MMI	203-233-2206	jmorehouse@mminc.com
Tom Woodruff	Glen Terrace Landscaping	203-287-9736	twoodruff@snet.net
Doug Columb	Grasshopper Lawns	203-558-9862	hoppersport@yahoo.com
Mike Stankina	MRC Recreation	215-300-8396	mstankina@mrcrec.com
Phillip Mauro	Concrete Creations	203-996-1544	Freeenergy10@yahoo.com
Rob Savola	Childscapes	203-640-9797	rob@childscapesplaygrounds.com
Peter Wallace	M.E. O'Brien and Sons	860-488-2849	peter@obrienandsons.com
Luis Lopez	Grasso Companies	203-838-0123	wrobbie@grassoconstruction.com
Scott Norris	Ultiplay Parks & Playgrounds	860-593-4165	snoriss@ultiplayus.com

ROCCO ORSO
PURCHASING DIRECTOR

OFFICE OF THE DIRECTOR OF PURCHASING

THE CITY OF WATERBURY

CONNECTICUT

ADDENDUM #3

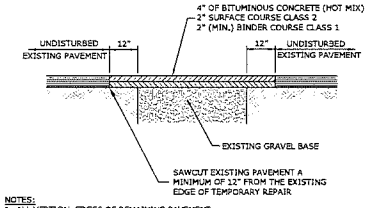
May 15, 2018
Bid: 6110
Project: Playground Improvements

Please note the following:

Replace Plan Sheet WA-3 in its entirety with this Addendum
Replace Plan Sheet SD-3 in its entirety with this Addendum

Thanks
Kevin McCaffery
Buyer – City of Waterbury

235 GRAND STREET • WATERBURY, CONNECTICUT 06702 • PHONE (203) 574-6740 • FAX (203) 597-3437

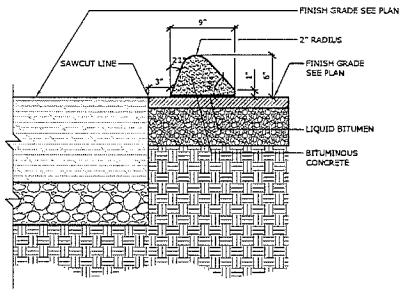


NOTES:
1. ALL VERTICAL EDGES OF REMAINING PAVEMENT SHALL BE PAINTED WITH A LIGHT COAT OF ASPHALT EMULSION.
2. AFTER FINAL PAVEMENT JOINTS SHALL BE SEALED WITH A CTDOT APPROVED JOINT SEALER.

PERMANENT PAVEMENT RESTORATION FOR PERPENDICULAR UTILITY CROSSINGS LESS THAN 50% OF THE PAVEMENT WIDTH

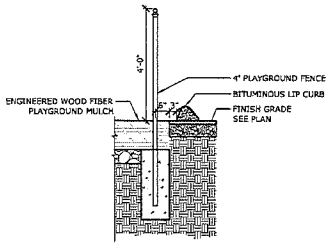
1 PERMANENT PAVEMENT RESTORATION

NOT TO SCALE — P-SC-1014.70-03



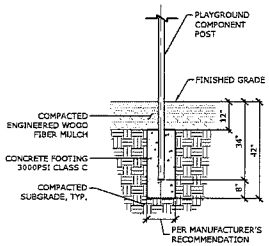
2 BITUMINOUS CONCRETE LIP CURB

N.T.S. — P-SC-1014.70-04



3 PLAYGROUND SECTION AT LIP CURB

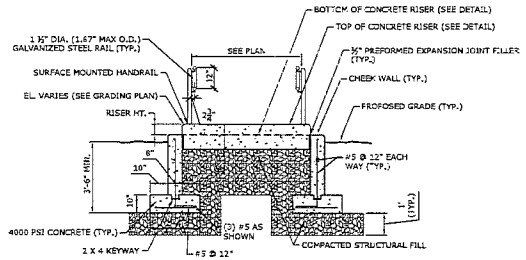
NOT TO SCALE — P-SC-1014.70-101



4 PLAYGROUND COMPONENT POST FOOTING

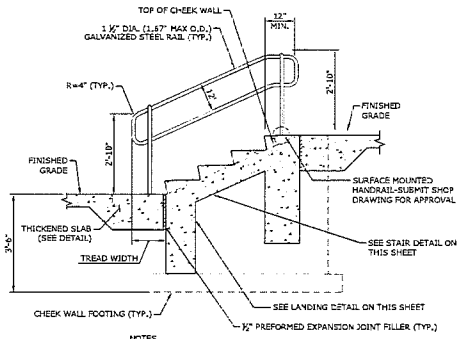
NOT TO SCALE — P-SC-1014.70-06

2



6 TYPICAL STAIR CHEEK WALL SECTION

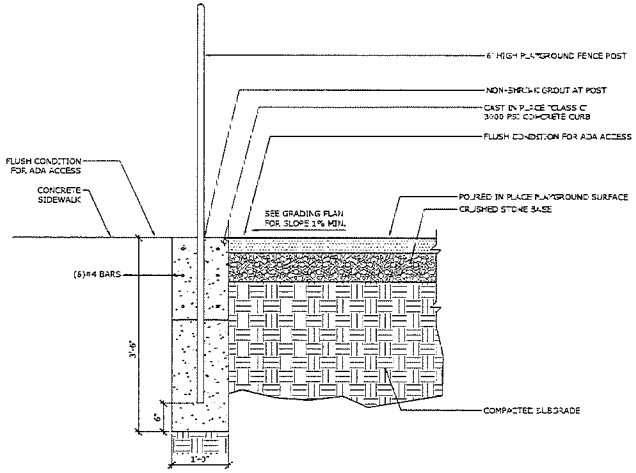
NOT TO SCALE — P-SC-1014.70-25



NOTES
1. CONTRACTOR SHALL SUBMIT RAILING SHOP DRAWINGS.
2. SEE TYPICAL CHEEK WALL SECTION ON THIS SHEET.
3. HANDRAIL TO MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

7 TYPICAL CONCRETE STAIR/HANDRAIL SECTION

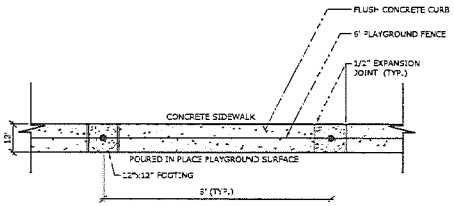
1/2" = 1'-0" — P-SC-1014.70-24



NOTE:
1. PROVIDE EXPANSION JOINTS IN CURB AT 20' MAXIMUM O.C.

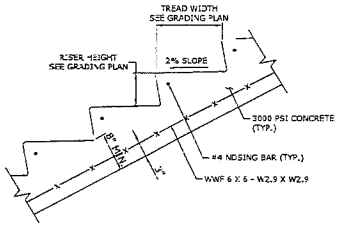
9 C.I.P. CONCRETE CURB WITH FENCE @ PLAYGROUND

NOT TO SCALE — P-SC-1014.70-29



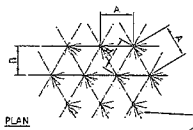
10 C.I.P. CONCRETE CURB WITH FENCE - PLAN VIEW

NOT TO SCALE — P-SC-1014.70-30



8 TYPICAL CONCRETE STAIR DETAIL

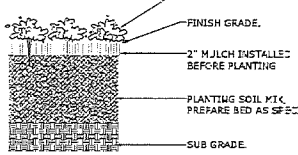
1" = 1'-0" — P-SC-1014.70-11



PLAN

GROUND COVER SPACING TABLE

PLANT SPACING "A"	ROW SPACING "B"
5' O.C.	4.33' O.C.

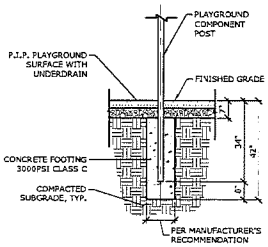


SECTION

NOTES:
1. ALL GROUND COVER TO BE PLANTED IN TRIANGULAR PATTERN. SEE DETAIL PLAN AND GROUND COVER SPACING TABLE.

11 GROUNDCOVER PLANTING

NOT TO SCALE — P-SC-1014.70-07



5 PLAYGROUND COMPONENT POST FOOTING @ P.I.P. PLAYGROUND SURFACE

NOT TO SCALE — P-SC-1014.70-104

MILONE & MACBROOM®
99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax: (203) 272-9733
www.milonemacbroom.com

DESCRIPTION	DATE	BY
1 ADDENDUM 2	05/30/2018	JJM

SITE DETAILS

WATERBURY PLAYGROUND IMPROVEMENTS
AT BUCKS HILL, CHASE, GENERALI, & WALSH ELEMENTARY SCHOOLS
83 BANK STREET
WATERBURY, CONNECTICUT

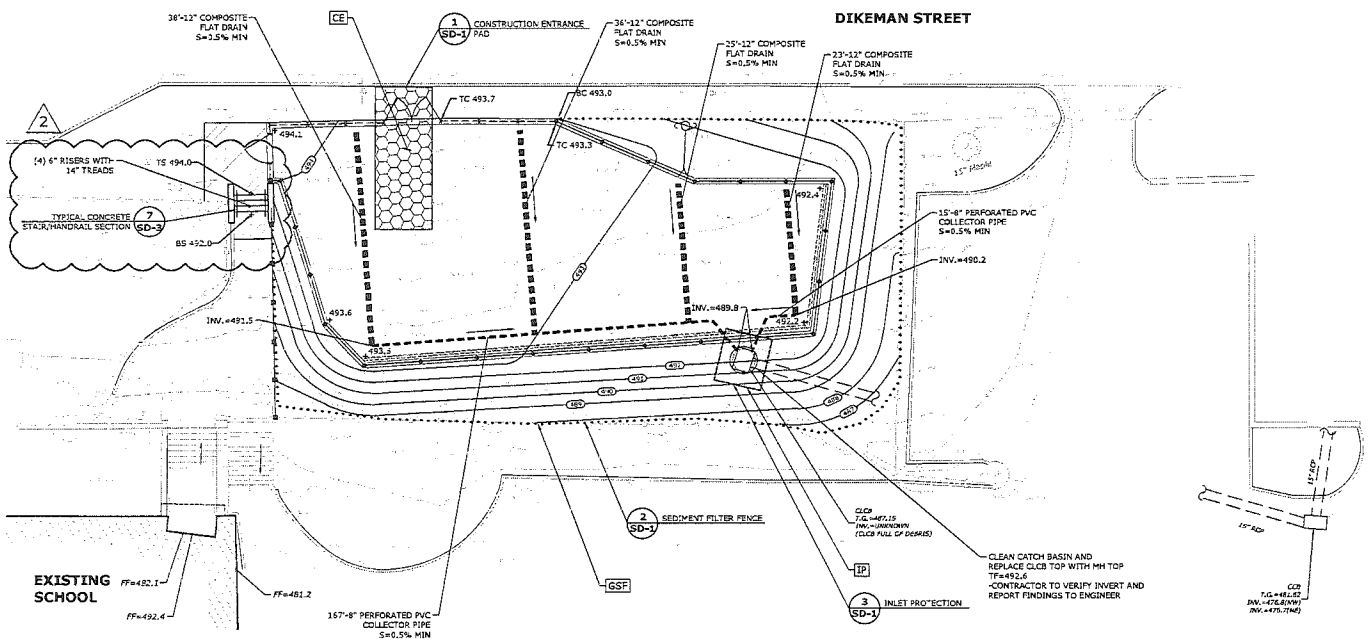
RRC	JJM	RRC
DESIGNED	DRAWN	CHECKED

NOT TO SCALE

MAY 21, 2018

1014-70

SD-3



LEGEND

	EXISTING SPOT ELEVATION
+ 473.5	PROPOSED SPOT ELEVATION
	EXISTING CONTOUR
124	PROPOSED CONTOUR
TC 120.0 / BC 119.5	TOP OF CURB / BOTTOM OF CURB

EROSION CONTROL LEGEND

CE	CONSTRUCTION ENTRANCE (50 L.F. MIN.)
GSF	SEDIMENT FILTER FENCE
IP	INLET PROTECTION

GRADING NOTES:

1. ACCESSIBLE ROUTE SLOPES SHALL BE 1:20 (5%) OR LESS AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/2 INCH, AND SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED.
2. THE PLAYGROUND SHALL HAVE SLOPES LESS THAN 2% OR LESS IN ALL DIRECTIONS.
3. IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE.
4. MANUFACTURER IS RESPONSIBLE FOR PROVIDING EQUIPMENTS THAT MEETS ALL ACCESSIBILITY REQUIREMENTS FOR PLAYGROUND COMPONENTS.

MILONE & MACBROOM®
99 Realty Drive
Cheshire, Connecticut 06410
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www.miloneandmacbroom.com

DESCRIPTION	DATE	BY
2 ADDENDUM 2	06/15/2018	JJR

SITE PLAN- GRADING AND UTILITIES PLAN

WALSH ELEMENTARY SCHOOL
WATERBURY PLAYGROUND IMPROVEMENTS

65 DIKEMAN STREET
WATERBURY, CONNECTICUT

RRC	JJM	RRC
DESIGNED	DRAWN	CHECKED

SCALE: 1"=10'

DATE: MAY 21, 2018

PROJECT NO.: 1014-70

SHEET NO.: WA-3

SHEET NAME

THE CITY OF WATERBURY

PLAYGROUND IMPROVEMENTS
ITB #6110

SECTION 00300

ADDENDUM ACKNOWLEDGEMENT FORM

NOTE: The Bidder is to complete, sign and date this form. The completed form shall be submitted with the BID FORM in accordance with ARTICLE 6 of the INSTRUCTIONS TO BIDDERS.

The undersigned, as Bidder's Authorized Representative, acknowledges receipt of the following Addenda and that the modifications to the Bid Documents noted therein have been considered and all costs related thereto are included in the Bid Prices:

Addendum # 1	Date Issued MAY 10, 2018
Addendum # 2	Date Issued MAY 14, 2018
Addendum # 3	Date Issued MAY 15, 2018
Addendum # _____	Date Issued _____
Addendum # _____	Date Issued _____
Addendum # _____	Date Issued _____

Business Name of Bidder: GLEN TERRACE LANDSCAPING, INC.

By Bidder's Authorized Representative
9
Signature: Kathy Woodruff

Name KATHRYN WOODRUFF
(Print or Type)

Title PRESIDENT
(Print or Type)

Date MAY 21, 2018
(Print or Type)

END OF SECTION

THE CITY OF WATERBURY

PLAYGROUND IMPROVEMENTS

ITB #6110

SECTION 00400

Date: MAY 21, 2018

Mr. Rocco Orso
Director of Purchasing
City of Waterbury
235 Grand Street
Waterbury, CT 06702

Sir:

Pursuant to and in compliance with the Invitation to Bid, the Undersigned:

GLEN TERRACE LANDSCAPING, INC
(Print or Type Business Name of Bidder)

having carefully examined all the Bid Documents, together with all Addenda, as acknowledged on the Addendum Acknowledgment Form, and having informed itself fully in regard to all conditions pertaining to the providing of the specified Bid Items and the place where the Work, Services and/or Items are to be delivered, constructed, installed and/or performed; and that with this representation, the undersigned makes this Bid.

Further, the undersigned proposes to provide the specified Bid Items, to perform all Services and/or to furnish all equipment, labor and materials, etc. and to complete the Work in its entirety in the manner and under the conditions required by the Bid Documents at the prices listed as follows:

BID ITEMS

BID ITEM	AMOUNT BID	AMOUNT BID IN NUMBERS
1.0	Buck's Hill Elementary School	160,400.00
2.0	H.S. Chase Elementary School	139,900.00
3.0	Margaret M. Generali Elementary School	192,100.00
4.0	Walsh Elementary School	256,700.00
Sub Total Bid Items 1.0-4.0		$ 747,100.00

5.0	Allowance for Changes; 5% of Sub Total Bid Items 1.0 – 2	37,355.00
TOTAL BID PRICE ITEMS 1.0 – 5.0 SEVEN HUNDRED EIGHTY FOUR THOUSAND, FOUR HUNDRED FIFTY-FIVE AND 00/100		$ 784,455.00

In the event of mathematically incorrect calculations of individual items or totals, the mathematically correct amount using the estimated quantities and unit prices (in words) shall govern in determining the TOTAL BID PRICE.

The undersigned also agrees that the quantities indicated are for Bid comparison purposes only and are not represented to be actual quantities for completion of the Work.

The undersigned hereby certifies under the penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this section, the work "person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.

06-1287752
Social Security Number or
Federal Identification Number

Signature of Individual or
Corporate Name: GLEN TERRACE LANDSCAPING INC.

Corporate Officer
(if applicable)

Notice of acceptance should be mailed, telegraphed or delivered to the (undersigned Bidder at the following address):

KATHRYN WOODRUFF
(Name)

By: PRESIDENT
(Title)

759 SHERMAN AVE
(Business Address)

HAMDEN CT 06514
(City, State, Zip Code)

Date: 5-21-18

Note: If the Bidder is a corporation, indicate State of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses, if different from business address.

The following documents are attached to and made a condition of the Bid:

a. Instructions to Bidders – Section 00100
b. Addendum Acknowledgement – Section 00300
c. Bid Form – Section 00400
d. Technical Specifications – Section 00500

END OF SECTION

THE CITY OF WATERBURY

PLAYGROUND IMPROVEMENTS

ATTACHMENT A

CONTRACT COMPLIANCE PACKET

1. City of Waterbury Annual Statement of Financial Interests (4 pages)

2. City of Waterbury Disclosure and Certification Affidavit Regarding Outstanding Obligations to the City of Waterbury (4 pages)

3. City of Waterbury Certification Regarding Debarment, Regarding Outstanding Obligations to the City of Waterbury (1 page)

4. Limited Liability Company Resolution & Letter (1 pages)

5. Corporate Resolution (1 page)

6. Commission on Human Rights and Opportunities Contract Compliance Regulations Notification to Bidders (5 pages)

CITY OF WATERBURY
ANNUAL STATEMENT OF FINANCIAL INTERESTS (Calendar Year 2018)
Persons or Entities Conducting Business with the City

I. Outstanding Purchase Orders of Contracts with the City

A. Contracts

No Contracts with the City ☒

(Service or Commodity Covered by Contract)

(Term of Contract)

(Service or Commodity Covered by Contract)

(Term of Contract)

(Service or Commodity Covered by Contract)

(Term of Contract)

CITY OF WATERBURY
ANNUAL STATEMENT OF FINANCIAL INTERESTS (Calendar Year 2018)
Persons or Entities Conducting Business with the City

B. Purchase Order(s).

No Purchase Order(s) with the City ☒

(Service or Commodity Covered by Purchase Order)

(Date of Purchase Order)

(Service or Commodity Covered by Purchase Order)

(Date of Purchase Order)

(Service or Commodity Covered by Purchase Order)

(Date of Purchase Order)

CITY OF WATERBURY
ANNUAL STATEMENT OF FINANCIAL INTERESTS (Calendar Year 2018)
Persons or Entities Conducting Business with the City

II. Financial Interest Disclosure

(Public Officials, Employees or Board and Commission Members with interest in Person or Entity Conducting Business with the City)

No Officials, Employees or Board and Commission Members with Financial Interest ☒

(Name of Official)

(Position with City)

(Nature of Business Interest)
(e.g. Owner, Director etc...)

Interest Held By:
Self ☐ Spouse ☐ Joint ☐ Child ☐

(Name of Official)

(Position with City)

(Nature of Business Interest)
(e.g. Owner, Director etc...)

Interest Held By:
Self ☐ Spouse ☐ Joint ☐ Child ☐

1. I certify that this Annual Statement of Financial Interests is a complete and accurate statement of those matter required to be disclosed by me pursuant to §39.061 of the Code of Ordinances.

2. I understand that if I fail to file an Annual Statement (or amendment thereto) or an inaccurate Statement I will be in violation with Chapter 39 of the Code of Ordinance and, thereby, subject to the remedies set forth in §§38.71 and 39.101 of said Code.

3. I understand that I must file with the City Clerk, within fifteen (15) days following any reportable occurrence, any amendments to the Annual Statement.

I have read and agree to the above certification.

GLEN TERRACE LANDSCAPING, INC.
(Name of Company, if applicable)

Kathy Woodruff
Signature of Individual (or Authorized Signatory)

5-21-18
Date

KATHRYN WOODRUFF - PRESIDENT
Print or Type Name and Title (if applicable)

DELIVERED | By Mail ☐ Hand-Delivered ☒

CITY OF WATERBURY
DISCLOSURE AND CERTIFICATION AFFIDAVIT REGARDING OUTSTANDING OBLIGATIONS TO THE CITY OF WATERBURY

For the purposes of this Disclosure of Outstanding Financial Obligations, the following definitions apply:

(a) "Contract" means any Public Contract as defined below.

(b) "Person" means one (1) or more individuals, partnerships, corporations, associations, or joint ventures.

(c) "Public Contract" means any agreement or formal commitment entered into by the city to expend funds in return for work, labor, services, supplies, equipment, materials or any combination of the foregoing, or any lease, lease by way of concession, concession agreement, permit, or per agreement whereby the city leases, grants or demises property belonging to the city, or otherwise grants a right of privilege to occupy or to use said property of the city.

(d) "City" means any official agency, board, authority, department office, or other subdivision of the City of Waterbury.

State of CT

SS.: 759 Sherman Ave.

County of NEW HAVEN

KATHRYN WOODRUFF, being first duly sworn, deposes and says that:

1. I am the *owner, partner, officer, representative, agent or* OFFICER of GLEN TERRACE LANDSCAPING, INC. (Contractor's Name), the Contractor that has submitted the attached agreement.

2. I am fully informed respecting the preparation and contents of the attached Agreement and of all pertinent circumstances respecting such Agreement;

3. That as a person desiring to contract with the City (check all that apply):

____ The Contractor and each owner, partner, officer, representative, agent or affiliate of the Contractor has filed a list of taxable personal property with the City of Waterbury for the most recent grand list, as required by Conn. Gen. Stat. §12-42.

✓ Neither the Contractor nor any owner, partner, officer, representative, agent or affiliate of the Contractor are required to file a list of taxable personal property with the City of Waterbury for the most recent grand list, as required by Conn. Gen. Stat. §12-42.

✓ Neither the Contractor nor any owner, partner, officer, representative, agent or affiliate of the Contractor either directly or through a lease agreement, owes back taxes to the City of Waterbury

CITY OF WATERBURY
DISCLOSURE AND CERTIFICATION AFFIDAVIT REGARDING OUTSTANDING OBLIGATIONS TO THE CITY OF WATERBURY

✓ Neither the Contractor nor any owner, partner, officer, representative, agent or affiliate of the Contractor either directly or through a lease agreement, has any other outstanding obligations to the City of Waterbury

4. The following list is a list of the names of all persons affiliated with the business of the Contractor, if none state none. Use additional sheet if necessary (Must be on company letterhead and notarized):

Name	Title	Affiliated Company (if none state NONE)	Service or Material	DOB
NONE				
1				
2				
3				
4				

5. That as a person desiring to contract with the City:

(a) The Contractor or an owner, partner, officer, representative, agent or affiliate of the Contractor provides, or has provided, services or materials to the City within one (1) year prior to the date of this disclosure, if none, state none. Use additional sheet if necessary (Must be on company letterhead and notarized):

Name	Title	Affiliated Company (if none state NONE)	Service or Material	DOB
NONE				
1				
2				
3				
4				

(b) The Contractor possesses an ownership interest in the following business organizations, if none, state none. Use additional sheet if necessary (Must be on company letterhead and notarized) :

Organization Name	Address	Type of Ownership
1 NONE		
2		
3		
4		

(c) The following persons possess an ownership interest in the Contractor. If the Contractor is a corporation, list all of the officers of the corporation and the names of each stockholder whose shares exceed twenty-five

CITY OF WATERBURY
DISCLOSURE AND CERTIFICATION AFFIDAVIT REGARDING OUTSTANDING OBLIGATIONS TO THE CITY OF WATERBURY

(25) percent of the outstanding stock, if none, state none. Use additional sheet if necessary (Must be on company letterhead and notarized):

Name	Title	DOB	Stock %
1 KATHRYN WOODUFF	PRESIDENT	2-04-60	100%
2			
3			
4			

(d) Of the following of the affiliates, individuals or business entities identified in this affidavit, list each that owns, owned, or within one (1) year prior to the date of this disclosure has owned, taxable property situated in the City of Waterbury, if none state none. Use additional sheet if necessary (Must be on company letterhead and notarized):

Name	Title	Affiliated Company (if none state NONE)	Address	DOB
1 NONE				
2				
3				
4				

(e) If the Contractor conducts business under a trade name, the following additional information is required: the place where such entity is incorporated or is registered to conduct such business; and the address of its principal place of business, if none, state none:

TRADE NAME	PLACE OF INCORPORATION/REGISTRY	PRINCIPAL PLACE OF BUSINESS
NONE		
1		
2		
3		
4		

I hereby certify that the statements set forth above are true and complete, and I understand that any incorrect information or omission of information from this affidavit may result in the immediate termination of the Contractor's agreement with the City of Waterbury.

For Partnership/Sole Proprietor

In presence of:

Witness

Name of Partnership/Business

CITY OF WATERBURY
DISCLOSURE AND CERTIFICATION AFFIDAVIT REGARDING OUTSTANDING OBLIGATIONS TO THE CITY OF WATERBURY

By: _____
Name of General Partner/ Sole Proprietor

_____
Address of Business

State of _____)
) SS
County of _____)

_____ being duly sworn,

Deposes and says that he/she is _____ of _____ and that he/she answers to the foregoing questions and all statements therein are true and correct.

Subscribed and sworn to before me this _____ day of _____ 201_.

_____
(Notary Public)

My Commission Expires: _____

For Corporation

Witness

KATHRYN WOODRUFF
Name of Corporate Signatory

759 SHERMAN AVE HAMDEN, CT
Address of Business

Affix
Corporate
Seal

By: Kathy Woodruff
Name of Authorized Corporate Officer
KATHRYN WOODRUFF

Its: PRESIDENT
Title

CITY OF WATERBURY
DISCLOSURE AND CERTIFICATION AFFIDAVIT REGARDING OUTSTANDING OBLIGATIONS TO THE CITY OF WATERBURY

State of CT)

) SS

County of NEW HAVEN)

KATHRYN WOODRUFF being duly sworn,

deposes and says that he/she is PRESIDENT of GLEN TERRACE LANDSCAPING, INC. and that he/she answers to the foregoing questions and all statements therein are true and correct.

Subscribed and sworn to before me this 21ST day of MAY 2013.

(Notary Public)

My Commission Expires: 12/31/2021

City of Waterbury Certification
Regarding
Debarment, Suspension, Ineligibility and Exclusion

If the transaction is Federally funded, in whole or in part (including pass through grants to state and/or municipal government), this certification is required by the regulations implementing one or more Presidential Executive Orders. If this transaction is funded by the State of Connecticut, in whole or in part, this certification is required in accordance with one or more State of Connecticut general statutes.

1. By signing and submitting the attached proposal and/or this document, the prospective lower tier participant, vendor, or contractor is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant, vendor, or contractor knowingly rendered an erroneous certification, in addition to other remedies available to the Federal , State, or City government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant, vendor or contractor shall provide immediate written notice to the person to which the attached proposal and/or this document is submitted if at any time the prospective lower tier participant, vendor or contractor learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction", "debarred", "suspended", "ineligible", "lower tier covered transaction", "participant", "person", "primary covered transaction", "principal", "proposal", and "voluntarily excluded", as used herein, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549 and/or State of Connecticut statutes and regulations. You may contact the person to which this proposal and/or this document is submitted for assistance in obtaining a copy of the foregoing.
5. The prospective lower tier participant, vendor or contractor agrees by submitting the attached proposal and/or this document that, should the proposed covered transaction be entered into, it shall not knowingly enter into any covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant, vendor or contractor further agrees by submitting the attached proposal and/or this document that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion-Lower Tier Covered Transactions", without modification, in all covered transaction and in all solicitations for covered transactions.
7. A participant in a covered transaction may rely upon the certification of a prospective participant in a covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may but is not required to, check the Non-procurement List.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required herein. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph 5 herein, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal, State or Municipal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification

(1) The prospective recipient of monies hereby certifies, by submission of its attached proposal and/or by execution of this document, that neither it nor its principles are presently debarred, suspended, proposed for debarment, declared ineligible, disqualified, or voluntarily excluded from bidding or participation in the proposed transaction by any Federal, State, or Municipal department or agency or by the statutes, regulations or ordinances of the foregoing departments and agencies.

(2) Where the prospective recipient of monies is unable to certify to any of the statements in this certification, such prospective participant shall attach a written explanation hereto.

Full Legal Name and address of Recipient, Vendor, or Contractor: GLEN TERRACE LANDSCAPING, INC.
754 SHERMAN AVE
HAMDEN CT 06514

Print Name and Title of Authorized Representative: KATHRYN WOODRUFF

Signature of Authorized Representative: Kathy Woodruff

Date: 5-21-18

CORPORATE RESOLUTION

I, KATHRYN WOODRUFF, hereby certify that I am the duly elected and acting Secretary of GLEN TERRACE LANDSCAPING, INC a corporation organized and existing under the laws of the State of CT, do hereby certify that the following facts are true and were taken from the records of said corporation.

The following resolution was adopted at a meeting of the corporation duly held on the 15th day of JANUARY, 2018.

"It is hereby resolved that KATHRYN WOODRUFF is authorized to make, execute and approve, on behalf of this corporation, any and all contracts or amendments thereof".

And I do further certify that the above resolution has not been in any way altered, amended, repealed and is now in full force and effect.

IN WITNESS WHEREOF, I hereunto set my hand and affix the corporate seal of said GLEN TERRACE LANDSCAPING, INC. corporation this 21st day of MAY, 2018.

Kathy Woodruff
Secretary

COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES
CONTRACT COMPLIANCE REGULATIONS
NOTIFICATION TO BIDDERS

(Revised09/3/15)

The contract to be awarded is subject to contract compliance requirements mandated by Sections 4a-60 and 4a-60a of the Connecticut General Statutes; and, when the awarding agency is the State, Sections 46a-71(d) and 46a-81i(d) of the Connecticut General Statutes. There are Contract Compliance Regulations codified at Section 46a-68j-21 through 43 of the Regulations of Connecticut State Agencies, which establish a procedure for awarding all contracts covered by Sections 4a-60 and 46a-71(d) of the Connecticut General Statutes.

According to Section 46a-68j-30(9) of the Contract Compliance Regulations, every agency awarding a contract subject to the contract compliance requirements has an obligation to "aggressively solicit the participation of legitimate minority business enterprises as bidders, contractors, subcontractors and suppliers of materials." "Minority business enterprise" is defined in Section 4a-60 of the Connecticut General Statutes as a business wherein fifty-one percent or more of the capital stock, or assets belong to a person or persons: "(1) Who are active in daily affairs of the enterprise; (2) who have the power to direct the management and policies of the enterprise; and (3) who are members of a minority, as such term is defined in subsection (a) of Section 32-9n." "Minority" groups are defined in Section 32-9n of the Connecticut General Statutes as "(1) Black Americans . . . (2) Hispanic Americans . . . (3) persons who have origins in the Iberian Peninsula . . . (4)Women . . . (5) Asian Pacific Americans and Pacific Islanders; (6) American Indians . . ." An individual with a disability is also a minority business enterprise as provided by Section 4a-60g of the Connecticut General Statutes. The above definitions apply to the contract compliance requirements by virtue of Section 46a-68j-21(11) of the Contract Compliance Regulations.

The awarding agency will consider the following factors when reviewing the bidder's qualifications under the contract compliance requirements:

(a) the bidder's success in implementing an affirmative action plan;
(b) the bidder's success in developing an apprenticeship program complying with Sections 46a-68-1 to 46a-68-17 of the Administrative Regulations of Connecticut State Agencies, inclusive;
(c) the bidder's promise to develop and implement a successful affirmative action plan;
(d) the bidder's submission of employment statistics contained in the "Employment Information Form", indicating that the composition of its workforce is at or near parity when compared to the racial and sexual composition of the workforce in the relevant labor market area; and
(e) the bidder's promise to set aside a portion of the contract for legitimate minority business enterprises. See Section 46a-68j-30(10)(E) of the Contract Compliance Regulations.

INSTRUCTIONS AND OTHER INFORMATION

The following BIDDER CONTRACT COMPLIANCE MONITORING REPORT must be completed in full, signed, and submitted with the bid for this contract. The contract awarding agency and the Commission on Human Rights and Opportunities will use the information contained thereon to determine the bidders compliance to Sections 4a-60 and 4a-60a CONN. GEN. STAT., and Sections 46a-68j-23 of the Regulations of Connecticut State Agencies regarding equal employment opportunity, and the bidder's good faith efforts to include minority business enterprises as subcontractors and suppliers for the work of the contract.

1) Definition of Small Contractor

Section 4a-60g CONN. GEN. STAT. defines a small contractor as a company that has been doing business under the same management and control and has maintained its principal place of business in Connecticut for a one year period immediately prior to its application for certification under this section, had gross revenues not exceeding fifteen million dollars in the most recently completed fiscal year, and at least fifty-one percent of the ownership of which is held by a person or persons who are active in the daily affairs of the company, and have the power to direct the management and policies of the company, except that a nonprofit corporation shall be construed to be a small contractor if such nonprofit corporation meets the requirements of subparagraphs (A) and (B) of subdivision 4a-60g CONN. GEN. STAT.

2) Description of Job Categories (as used in Part IV Bidder Employment Information) (Page 2)

MANAGEMENT: Managers plan, organize, direct, and control the major functions of an organization through subordinates who are at the managerial or supervisory level. They make policy decisions and set objectives for the company or departments. They are not usually directly involved in production or providing services. Examples include top executives, public relations managers, managers of operations specialties (such as financial, human resources, or purchasing managers), and construction and engineering managers.

BUSINESS AND FINANCIAL OPERATIONS: These occupations include managers and professionals who work with the financial aspects of the business. These occupations include accountants and auditors, purchasing agents, management analysts, labor relations specialists, and budget, credit, and financial analysts.

MARKETING AND SALES: Occupations related to the act or process of buying and selling products and/or services such as sales engineer, retail sales workers and sales representatives including wholesale.

LEGAL OCCUPATIONS: In-House Counsel who is charged with providing legal advice and services in regards to legal issues that may arise during the course of standard business practices. This category also includes assistive legal occupations such as paralegals, legal assistants.

COMPUTER SPECIALISTS: Professionals responsible for the computer operations within a company are grouped in this category. Examples of job titles in this category include computer programmers, software engineers, database administrators, computer scientists,systems analysts, and computer support specialists

ARCHITECTURE AND ENGINEERING: Occupations related to architecture, surveying, engineering, and drafting are included in this category. Some of the job titles in this category include electrical and electronic engineers, surveyors, architects, drafters, mechanical engineers, materials engineers, mapping technicians, and civil engineers.

OFFICE AND ADMINISTRATIVE SUPPORT: All clerical-type work is included in this category. These jobs involve the preparing, transcribing, and preserving of written communications and records; collecting accounts; gathering and distributing information; operating office machines and electronic data processing equipment; and distributing mail. Job titles listed in this category include telephone operators, bill and account collectors, customer service representatives, dispatchers, secretaries and administrative assistants, computer operators and clerks (such as payroll, shipping, stock, mail and file).

BUILDING AND GROUNDS CLEANING AND MAINTENANCE: This category includes occupations involving landscaping, housekeeping, and janitorial services. Job titles found in this category include supervisors of landscaping or housekeeping, janitors, maids, grounds maintenance workers, and pest control workers.

CONSTRUCTION AND EXTRACTION: This category includes construction trades and related occupations. Job titles found in this category include boilermakers, masons (all types), carpenters, construction laborers, electricians, plumbers (and related trades), roofers, sheet metal workers, elevator installers, hazardous materials removal workers, paperhangers, and painters. Paving, surfacing, and tamping equipment operators; drywall and ceiling tile installers; and carpet, floor and tile installers and finishers are also included in this category. First line supervisors, foremen, and helpers in these trades are also grouped in this category..

INSTALLATION, MAINTENANCE AND REPAIR: Occupations involving the installation, maintenance, and repair of equipment are included in this group. Examples of job titles found here are heating, ac, and refrigeration mechanics and installers; telecommunication line installers and repairers; heavy vehicle and mobile equipment service technicians and mechanics; small engine mechanics; security and fire alarm systems installers; electric/electronic repair, industrial, utility and transportation equipment; millwrights; riggers; and manufactured building and mobile home installers. First line supervisors, foremen, and helpers for these jobs are also included in the category.

MATERIAL MOVING WORKERS: The job titles included in this group are Crane and tower operators; dredge, excavating, and lading machine operators; hoist and winch operators; industrial truck and tractor operators; cleaners of vehicles and equipment; laborers and freight, stock, and material movers, hand; machine feeders and offbearers; packers and packagers, hand; pumping station operators; refuse and recyclable material collectors; and miscellaneous material moving workers.

PRODUCTION WORKERS: The job titles included in this category are chemical production machine setters, operators and tenders; crushing/grinding workers; cutting workers; inspectors, testers sorters, samplers, weighers; precious stone/metal workers; painting workers; cementing/gluing machine operators and tenders; etchers/engravers; molders, shapers and casters except for metal and plastic; and production workers.

COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES
CONTRACT COMPLIANCE REGULATIONS
NOTIFICATION TO BIDDERS

(Revised09/3/15)

The contract to be awarded is subject to contract compliance requirements mandated by Sections 4a-60 and 4a-60a of the Connecticut General Statutes; and, when the awarding agency is the State, Sections 46a-71(d) and 46a-81i(d) of the Connecticut General Statutes. There are Contract Compliance Regulations codified at Section 46a-68j-21 through 43 of the Regulations of Connecticut State Agencies, which establish a procedure for awarding all contracts covered by Sections 4a-60 and 46a-71(d) of the Connecticut General Statutes.

According to Section 46a-68j-30(9) of the Contract Compliance Regulations, every agency awarding a contract subject to the contract compliance requirements has an obligation to "aggressively solicit the participation of legitimate minority business enterprises as bidders, contractors, subcontractors and suppliers of materials." "Minority business enterprise" is defined in Section 4a-60 of the Connecticut General Statutes as a business wherein fifty-one percent or more of the capital stock, or assets belong to a person or persons: "(1) Who are active in daily affairs of the enterprise; (2) who have the power to direct the management and policies of the enterprise; and (3) who are members of a minority, as such term is defined in subsection (a) of Section 32-9n." "Minority" groups are defined in Section 32-9n of the Connecticut General Statutes as "(1) Black Americans . . . (2) Hispanic Americans . . . (3) persons who have origins in the Iberian Peninsula . . . (4)Women . . . (5) Asian Pacific Americans and Pacific Islanders; (6) American Indians . . ." An individual with a disability is also a minority business enterprise as provided by Section 4a-60g of the Connecticut General Statutes. The above definitions apply to the contract compliance requirements by virtue of Section 46a-68j-21(11) of the Contract Compliance Regulations.

The awarding agency will consider the following factors when reviewing the bidder's qualifications under the contract compliance requirements:

(a) the bidder's success in implementing an affirmative action plan;
(b) the bidder's success in developing an apprenticeship program complying with Sections 46a-68-1 to 46a-68-17 of the Administrative Regulations of Connecticut State Agencies, inclusive;
(c) the bidder's promise to develop and implement a successful affirmative action plan;
(d) the bidder's submission of employment statistics contained in the "Employment Information Form", indicating that the composition of its workforce is at or near parity when compared to the racial and sexual composition of the workforce in the relevant labor market area; and
(e) the bidder's promise to set aside a portion of the contract for legitimate minority business enterprises. See Section 46a-68j-30(10)(E) of the Contract Compliance Regulations.

INSTRUCTIONS AND OTHER INFORMATION

The following BIDDER CONTRACT COMPLIANCE MONITORING REPORT must be completed in full, signed, and submitted with the bid for this contract. The contract awarding agency and the Commission on Human Rights and Opportunities will use the information contained thereon to determine the bidders compliance to Sections 4a-60 and 4a-60a CONN. GEN. STAT., and Sections 46a-68j-23 of the Regulations of Connecticut State Agencies regarding equal employment opportunity, and the bidder's good faith efforts to include minority business enterprises as subcontractors and suppliers for the work of the contract.

1). Definition of Small Contractor

Section 4a-60g CONN. GEN. STAT. defines a small contractor as a company that has been doing business under the same management and control and has maintained its principal place of business in Connecticut for a one year period immediately prior to its application for certification under this section, had gross revenues not exceeding fifteen million dollars in the most recently completed fiscal year, and at least fifty-one percent of the ownership of which is held by a person or persons who are active in the daily affairs of the company, and have the power to direct the management and policies of the company, except that a nonprofit corporation shall be construed to be a small contractor if such nonprofit corporation meets the requirements of subparagraphs (A) and (B) of subdivision 4a-60g CONN. GEN. STAT.

2) Description of Job Categories (as used in Part IV Bidder Employment Information) (Page 2)

MANAGEMENT: Managers plan, organize, direct, and control the major functions of an organization through subordinates who are at the managerial or supervisory level. They make policy decisions and set objectives for the company or departments. They are not usually directly involved in production or providing services. Examples include top executives, public relations managers, managers of operations specialties (such as financial, human resources, or purchasing managers), and construction and engineering managers.

BUSINESS AND FINANCIAL OPERATIONS: These occupations include managers and professionals who work with the financial aspects of the business. These occupations include accountants and auditors, purchasing agents, management analysts, labor relations specialists, and budget, credit, and financial analysts.

MARKETING AND SALES: Occupations related to the act or process of buying and selling products and/or services such as sales engineer, retail sales workers and sales representatives including wholesale.

LEGAL OCCUPATIONS: In-House Counsel who is charged with providing legal advice and services in regards to legal issues that may arise during the course of standard business practices. This category also includes assistive legal occupations such as paralegals, legal assistants.

COMPUTER SPECIALISTS: Professionals responsible for the computer operations within a company are grouped in this category. Examples of job titles in this category include computer programmers, software engineers, database administrators, computer scientists,systems analysts, and computer support specialists

ARCHITECTURE AND ENGINEERING: Occupations related to architecture, surveying, engineering, and drafting are included in this category. Some of the job titles in this category include electrical and electronic engineers, surveyors, architects, drafters, mechanical engineers, materials engineers, mapping technicians, and civil engineers.

OFFICE AND ADMINISTRATIVE SUPPORT: All clerical-type work is included in this category. These jobs involve the preparing, transcribing, and preserving of written communications and records; collecting accounts; gathering and distributing information; operating office machines and electronic data processing equipment; and distributing mail. Job titles listed in this category include telephone operators, bill and account collectors, customer service representatives, dispatchers, secretaries and administrative assistants, computer operators and clerks (such as payroll, shipping, stock, mail and file).

BUILDING AND GROUNDS CLEANING AND MAINTENANCE: This category includes occupations involving landscaping, housekeeping, and janitorial services. Job titles found in this category include supervisors of landscaping or housekeeping; janitors, maids, grounds maintenance workers, and pest control workers.

CONSTRUCTION AND EXTRACTION: This category includes construction trades and related occupations. Job titles found in this category include boilermakers, masons (all types), carpenters, construction laborers; electricians, plumbers (and related trades), roofers, sheet metal workers, elevator installers, hazardous materials removal workers; paperhangers, and painters. Paving, surfacing, and tamping equipment operators; drywall and ceiling tile installers; and carpet, floor and tile installers and finishers are also included in this category. First line supervisors, foremen, and helpers in these trades are also grouped in this category..

INSTALLATION, MAINTENANCE AND REPAIR: Occupations involving the installation, maintenance, and repair of equipment are included in this group. Examples of job titles found here are heating, ac, and refrigeration mechanics and installers; telecommunication line installers and repairers; heavy vehicle and mobile equipment service technicians and mechanics; small engine mechanics; security and fire alarm systems installers; electric/electronic repair; industrial, utility and transportation equipment; millwrights; riggers; and manufactured building and mobile home installers. First line supervisors, foremen, and helpers for these jobs are also included in the category.

MATERIAL MOVING WORKERS: The job titles included in this group are Crane and tower operators; dredge, excavating, and lading machine operators; hoist and winch operators; industrial truck and tractor operators; cleaners of vehicles and equipment; laborers and freight, stock, and material movers, hand; machine feeders and offbearers; packers and packagers, hand; pumping station operators; refuse and recyclable material collectors; and miscellaneous material moving workers.

PRODUCTION WORKERS: The job titles included in this category are chemical production machine setters, operators and tenders; crushing/grinding workers; cutting workers; inspectors, testers sorters, samplers, weighers; precious stone/metal workers; painting workers; cementing/gluing machine operators and tenders; etchers/engravers; molders, shapers and casters except for metal and plastic; and production workers.

3) Definition of Racial and Ethnic Terms (as used in Part IV Bidder Employment Information) (Page 3)

White (not of Hispanic Origin)- All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East. Black(not of Hispanic Origin)- All persons having origins in any of the Black racial groups of Africa. Hispanic- All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.	Asian or Pacific Islander- All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes China, India, Japan, Korea, the Philippine Islands, and Samoa. American Indian or Alaskan Native- All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.

BIDDER CONTRACT COMPLIANCE MONITORING REPORT

PART I - Bidder Information

Company Name GREEN TERRACE LANDSCAPING, INC. Street Address 759 SHERMAN AVE City & State HAMDEN, CT 06514 Chief Executive KATHRYN WOODRUFF	Bidder Federal Employer Identification Number 06-1287252 Or Social Security Number_____
Major Business Activity (brief description) LANDSCAPE CONSTRUCTION SITEWORK PLAYGROUND	Bidder Identification (response optional/definitions on page 1) -Bidder is a small contractor. Yes ✓ No ___ -Bidder is a minority business enterprise Yes ✓ No ___ (If yes, check ownership category) Black ___ Hispanic ___ Asian American ___ American Indian/Alaskan Native ___ Iberian Peninsula ___ Individual(s) with a Physical Disability ___ Female ✓
Bidder Parent Company (If any)	-Bidder is certified as above by State of CT Yes ✓ No ___
Other Locations in CT (If any)	

PART II - Bidder Nondiscrimination Policies and Procedures

1. Does your company have a written Affirmative Action/Equal Employment Opportunity statement posted on company bulletin boards? Yes ✓ No ___	7. Do all of your company contracts and purchase orders contain non-discrimination statements as required by Sections 4a-60 & 4a-60a Conn. Gen. Stat.? Yes ✓ No ___
2. Does your company have the state-mandated sexual harassment prevention in the workplace policy posted on company bulletin boards? Yes ✓ No ___	8. Do you, upon request, provide reasonable accommodation to employees, or applicants for employment, who have physical or mental disability? Yes ✓ No ___
3. Do you notify all recruitment sources in writing of your company's Affirmative Action/Equal Employment Opportunity employment policy? Yes ✓ No ___	9. Does your company have a mandatory retirement age for all employees? Yes ___ No ✓
4. Do your company advertisements contain a written statement that you are an Affirmative Action/Equal Opportunity Employer? Yes ✓ No ___	10. If your company has 50 or more employees, have you provided at least two (2) hours of sexual harassment training to all of your supervisors? Yes ___ No ___ NA ✓
5. Do you notify the Ct. State Employment Service of all employment openings with your company? Yes ✓ No ___	11. If your company has apprenticeship programs, do they meet the Affirmative Action/Equal Employment Opportunity requirements of the apprenticeship standards of the Ct. Dept. of Labor? Yes ✓ No ___ NA ___
6. Does your company have a collective bargaining agreement with workers? Yes ✓ No ___ 6a. If yes, do the collective bargaining agreements contain non-discrim ination clauses covering all workers? Yes ✓ No ___ 6b. Have you notified each union in writing of your commitments under the nondiscrimination requirements of contracts with the state of Ct? Yes ✓ No ___	12. Does your company have a written affirmative action Plan? Yes ✓ No ___ If no, please explain. 13. Is there a person in your company who is responsible for equal employment opportunity? Yes ✓ No ___ If yes, give name and phone number. TOM WOODRUFF 203-289-9736

Part III - Bidder Subcontracting Practices

1. Will the work of this contract include subcontractors or suppliers? Yes ✓ No____

1a. If yes, please list all subcontractors and suppliers and report if they are a small contractor and/or a minority business enterprise. (defined on page 1 / use additional sheet if necessary)

EDI LANDSCAPE, LLC — YES / WBE

CREATIVE RECREATION — NO

1b. Will the work of this contract require additional subcontractors or suppliers other than those identified in 1a. above? Yes ✓ No___

PART IV - Bidder Employment Information

Date:

JOB CATEGORY *	OVERALL TOTALS	WHITE (not of Hispanic origin)		BLACK (not of Hispanic origin)		HISPANIC		ASIAN or PACIFIC ISLANDER		AMERICAN INDIAN or ALASKAN NATIVE	
		Male	Female	Male	Female	Male	Female	Male	Female	male	female
Management	2	1	1								
Business & Financial Ops											
Marketing & Sales											
Legal Occupations											
Computer Specialists											
Architecture/Engineering											
Office & Admin Support											
Bldg/ Grounds Cleaning/Maintenance											
Construction & Extraction	4	3				1					
Installation, Maintenance & Repair											
Material Moving Workers											
Production Occupations											
TOTALS ABOVE	6	4	1			1					
Total One Year Ago	13	6	1			6					
FORMAL ON THE JOB TRAINEES (ENTER FIGURES FOR THE SAME CATEGORIES AS ARE SHOWN ABOVE)											
Apprentices											
Trainees											

*NOTE: JOB CATEGORIES CAN BE CHANGED OR ADDED TO (EX. SALES CAN BE ADDED OR REPLACE A CATEGORY NOT USED IN YOUR COMPANY)

PART V - Bidder Hiring and Recruitment Practices

1. Which of the following recruitment sources are used by you? (Check yes or no, and report percent used)

SOURCE	YES	NO	% of applicants provided by source
State Employment Service			
Private Employment Agencies			
Schools and Colleges			
Newspaper Advertisement			
Walk Ins			
Present Employees			
Labor Organizations	✓		100%
Minority/Community Organizations			
Others (please identify)			

2. Check (X) any of the below listed requirements that you use as a hiring qualification

(X)	
X	Work Experience
	Ability to Speak or Write English
	Written Tests
	High School Diploma
	College Degree
X	Union Membership
	Personal Recommendation
	Height or Weight
	Car Ownership
	Arrest Record
	Wage Garnishments

3. Describe below any other practices or actions that you take which show that you hire, train, and promote employees without discrimination

Certification (Read this form and check your statements on it CAREFULLY before signing). I certify that the statements made by me on this BIDDER CONTRACT COMPLIANCE MONITORING REPORT are complete and true to the best of my knowledge and belief, and are made in good faith. I understand that if I knowingly make any misstatements of facts, I am subject to be declared in non-compliance with Section 4a-60, 4b-60a, and related sections of the CONN. GEN. STAT.

(Signature)	(Title)	(Date Signed)	(Telephone)
Karlene Wood	PRES.	5-21-18	203 287 9736

CITY OF WATERBURY
ANNUAL STATEMENT OF FINANCIAL INTERESTS (Calendar Year 2018)
Persons or Entities Conducting Business with the City

I. Outstanding Purchase Orders of Contracts with the City

A. Contracts

No Contracts with the City ☒

(Service or Commodity Covered by Contract)

(Term of Contract)

(Service or Commodity Covered by Contract)

(Term of Contract)

(Service or Commodity Covered by Contract)

(Term of Contract)

CITY OF WATERBURY
ANNUAL STATEMENT OF FINANCIAL INTERESTS (Calendar Year 201__)
Persons or Entities Conducting Business with the City

B. Purchase Order(s).

No Purchase Order(s) with the City ☒

(Service or Commodity Covered by Purchase Order)

(Date of Purchase Order)

(Service or Commodity Covered by Purchase Order)

(Date of Purchase Order)

(Service or Commodity Covered by Purchase Order)

(Date of Purchase Order)

CITY OF WATERBURY
ANNUAL STATEMENT OF FINANCIAL INTERESTS (Calendar Year 201__)
Persons or Entities Conducting Business with the City

II. Financial Interest Disclosure

(Public Officials, Employees or Board and Commission Members with interest in Person or Entity Conducting Business with the City)

No Officials, Employees or Board and Commission Members with Financial Interest ☒

(Name of Official)

(Position with City)

(Nature of Business Interest)
(e.g. Owner, Director etc...)

Interest Held By:
Self ☐ Spouse ☐ Joint ☐ Child ☐

(Name of Official)

(Position with City)

(Nature of Business Interest)
(e.g. Owner, Director etc...)

Interest Held By:
Self ☐ Spouse ☐ Joint ☐ Child ☐

1. I certify that this Annual Statement of Financial Interests is a complete and accurate statement of those matter required to be disclosed by me pursuant to §39.061 of the Code of Ordinances.

2. I understand that if I fail to file an Annual Statement (or amendment thereto) or an inaccurate Statement I will be in violation with Chapter 39 of the Code of Ordinance and, thereby, subject to the remedies set forth in §§38.71 and 39.101 of said Code.

3. I understand that I must file with the City Clerk, within fifteen (15) days following any reportable occurrence, any amendments to the Annual Statement.

I have read and agree to the above certification.

GLEN TERRACE LANDSCAPING, INC
(Name of Company, if applicable)

Kathryn Woodruff
Signature of Individual (or Authorized Signatory)

5-21-18
Date

KATHRYN WOODRUFF
Print or Type Name and Title (if applicable)

DELIVERED | By Mail ☐ Hand-Delivered ☒

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SECTION 00400

(SCHEDULE OF VALUES)

ITEM 1.0 - BUCKS HILL ELEMENTARY SCHOOL

The following schedule of values is a breakdown of the amount bid for Item 1.0 – Bucks Hill Elementary School as listed above. The schedule of values will be used for reference when evaluating pay requisitions submitted by the contractor.

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
1.1	Mobilization & Site Preparation	The work under this item shall include all materials, equipment, and labor necessary for mobilization and administrative costs including the movement of all the contractor's field offices, buildings, facilities, safety fencing and equipment to and from the project site, and construction staking, as necessary to the performance of the work. This section shall also include any cost of associated with permitting and bonding. If test pits are needed, it will be considered work under this item; The lump sum price of: EIGHTY-FOUR HUNDRED dollars and ZERO cents [in words]	($ 8,400.00) [in figures]
1.2	Site Removals	The work under this item shall include all materials, equipment and labor to perform the removal of all items shown on the plans including but not limited to the removal / disposal of existing play equipment, wood edging, wood mulch, removal & temporary storage of existing chain link fence, and materials encountered incidental to construction as described in the Contract Drawings and Technical Specifications; The lump sum price of: FIFTEEN THOUSAND, SIX HUNDRED dollars and ZERO cents [in words]	($ 15,600.00) [in figures]
1.3	Sedimentation and Erosion Control	The work under this item shall include all materials, equipment and labor for the installation and maintenance of a construction entrance pad, sedimentation and erosion controls, including but not limited to sediment filter fence, haybales, and inlet protection required either by the plans, or City staff or assigned representative, in accordance with the Contract Drawings and Technical Specifications; The lump sum price of: FOUR HUNDRED dollars and ZERO cents [in words]	($ 400.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
1.4	Earthwork and Grading	The work under this item shall include all materials, equipment and labor to perform necessary grading operations as shown on the Contract Drawings and described in the Technical Specifications. Work under this item shall include stripping topsoil, stockpiling and grading in order to bring elevations to the subgrade elevation required prior to the application of processed stone, wood fiber mulch or topsoil. This work includes any importation of materials or removal of materials from the site as required to achieve proposed subgrades The lump sum price of: SEVENTY-TWO HUNDRED dollars and ZERO cents [in words]	($ 7,200.00) [in figures]
1.5	Fencing	The work under this item shall include all materials, equipment and labor to reinstall existing fencing, supply and install new chain link fencing, gates, sonotubes, posts, and foundations, including but not limited to concrete footings, fabric, fittings, latches, pipe, drop-bar assemblies, sleeves, swing gates, hardware and fasteners as shown on the Contract Drawings and Technical Specifications; The lump sum price of: TEN THOUSAND EIGHT HUNDRED dollars and ZERO cents [in words]	($ 10,800.00) [in figures]
1.6	Site Drainage	The work under this item shall include all materials, equipment and labor to supply and install storm drainage system and perforated underdrain system within the project site as shown on the Contract Drawings and described in the Specifications, including but not limited to trenching and backfilling, sawcutting & pavement repair, installation of appropriate bedding, drainage pipes, area drains, yard drains, underdrains, flat drains, stone drainage layer, and all other associated work shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: FORTY THREE THOUSAND ONE HUNDRED dollars and ZERO cents [in words]	($ 43,100.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
1.7	Playground Equipment	The work under this item shall include all materials, equipment and labor to furnish and install all playground equipment and accessories, including all concrete footings, play structures, and play equipment and sign as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: FIFTY-SEVEN THOUSAND SEVEN HUNDRED dollars And ZERO cents (in words)	$57,700.00
1.8	Playground Surfacing	The work under this item shall include all materials, equipment and labor to furnish and install playground surface including engineered wood fiber mulch as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: TWELVE THOUSAND ONE HUNDRED dollars. And ZERO cents (in words)	$12,100.00
1.9	Topsoil, Seeding, & Establishment	The work under this item shall include all materials, equipment and labor to install all areas of lawn including amending and placement of topsoil and establishment for disturbed areas from construction, or contractor equipment, and removal of material from site. This work is shown on the Contract Drawings and described in the Technical Specifications under Turf & Grasses; The lump sum price of: THIRTY-ONE HUNDRED dollars and ZERO cents [in words]	($ 3,100.00) [in figures]

The Amount Bid for Item 1.0 - Bucks Hill Elementary School (sum of items 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, and 1.9) equals:

ONE HUNDRED FIFTY-EIGHT THOUSAND, FOUR HUNDRED dollars

and ZERO cents [in words]

($ 158,400.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SECTION 00400

(SCHEDULE OF VALUES)

ITEM 2.0 - H.S. CHASE ELEMENTARY SCHOOL

The following schedule of values is a breakdown of the amount bid for Item 2.0 – H.S. Chase Elementary School as listed above. The schedule of values will be used for reference when evaluating pay requisitions submitted by the contractor.

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
2.1	Mobilization & Site Preparation	The work under this item shall include all materials, equipment, and labor necessary for mobilization and administrative costs including the movement of all the contractor's field offices, buildings, facilities, safety fencing and equipment to and from the project site, and construction staking, as necessary to the performance of the work. This section shall also include any cost of associated with permitting and bonding. If test pits are needed, it will be considered work under this item; The lump sum price of: NINETY-TWO HUNDRED dollars and ZERO cents [in words]	($ 9,200.00) [in figures]
2.2	Site Removals	The work under this item shall include all materials, equipment and labor to perform the removal of all items shown on the plans including but not limited to the sawcut and removal/disposal of existing bituminous concrete pavement to full depth, and materials encountered incidental to construction as described in the Contract Drawings and Technical Specifications; The lump sum price of: NINETEEN THOUSAND, SEVEN HUNDRED dollars and ZERO cents [in words]	($ 19,700.00) [in figures]
2.3	Earthwork and Grading	The work under this item shall include all materials, equipment and labor to perform necessary grading operations as shown on the Contract Drawings and described in the Technical Specifications. Work under this item shall include grading in order to bring elevations to the subgrade elevation required prior to the application of processed stone and wood fiber mulch or topsoil. This work includes any importation of materials or removal of materials, including rock, from the site as required to achieve proposed subgrades The lump sum price of: TWO THOUSAND, TWO HUNDRED dollars and ZERO cents [in words]	($ 2,200.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
2.4	Fencing	The work under this item shall include all materials, equipment and labor to supply and install new chain link fencing, gates, sonotubes, posts, and foundations, including but not limited to concrete footings, fabric, fittings, latches, pipe, drop-bar assemblies, sleeves, swing gates, hardware and fasteners as shown on the Contract Drawings and Technical Specifications; The lump sum price of: TWELVE THOUSAND, FOUR HUNDRED dollars and ZERO cents [in words]	($ 12,400.00) [in figures]
2.5	Site Drainage	The work under this item shall include all materials, equipment and labor to supply and install storm drainage system and perforated underdrain system within the project site as shown on the Contract Drawings and described in the Specifications, including but not limited to trenching and backfilling, installation of appropriate bedding, drainage pipes, catch basins, manhole, stone drainage layer and all other associated work shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: THIRTY ONE THOUSAND, FIVE HUNDRED dollars and ZERO cents [in words]	($ 31,500.00) [in figures]
2.6	Bituminous Concrete Curbing	The work under this item shall include all materials, equipment and labor to furnish and construct bituminous concrete curbing and placement of all materials necessary for the completion of the work as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of THIRTY-FIVE HUNDRED dollars and ZERO cents (in words)	($ 3,500.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
2.7	Playground Equipment	The work under this item shall include all materials, equipment and labor to supply and install all playground equipment and accessories including concrete footings as shown on the Contract Drawings and described in the Specifications. The lump sum price of: FIFTY-ONE THOUSAND dollars and ZERO cents [in words]	($ 51,000.00) [in figures]
2.8	Playground Surfacing	The work under this item shall include all materials, equipment and labor to furnish and install engineered wood fiber mulch as shown on the Contract Drawings and described in the Specifications. The lump sum price of: TEN THOUSAND FOUR HUNDRED dollars and ZERO cents [in words]	($ 10,400.00) [in figures]

The Amount Bid for Item 2.0 - H.S. Chase Elementary School (sum of items 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, and 2.8) equals:

ONE HUNDRED THIRTY-NINE THOUSAND, NINE HUNDRED dollars

and ZERO cents [in words]

($ 139,900.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SECTION 00400

(SCHEDULE OF VALUES)

ITEM 3.0 - MARGARET M. GENERALI ELEMENTARY SCHOOL

The following schedule of values is a breakdown of the amount bid for Item 3.0 – Margaret M. Generali Elementary School as listed above. The schedule of values will be used for reference when evaluating pay requisitions submitted by the contractor.

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
3.1	Mobilization & Site Preparation	The work under this item shall include all materials, equipment, and labor necessary for mobilization and administrative costs including the movement of all the contractor's field offices, buildings, facilities, safety fencing and equipment to and from the project site, and construction staking, as necessary to the performance of the work. This section shall also include any cost of associated with permitting and bonding. If test pits are needed, it will be considered work under this item; The lump sum price of: NINE THOUSAND dollars and ZERO cents [in words]	($ 9000.00) [in figures]
3.2	Site Removals	The work under this item shall include all materials, equipment and labor to perform the removal of all items shown on the plans including but not limited to the removal / disposal of existing play equipment, wood mulch (full depth), chain link fence, removal & temporary storage of existing guiderail, saw cut and removal of bituminous concrete pavement (full depth), and materials encountered incidental to construction as described in the Contract Drawings and Technical Specifications; The lump sum price of: TWENTY-SIX THOUSAND FIVE HUNDRED dollars and ZERO cents [in words]	($ 26,500.00) [in figures]
3.3	Sedimentation and Erosion Control	The work under this item shall include all materials, equipment and labor for the installation and maintenance of a construction entrance pad, sedimentation and erosion controls, including but not limited to sediment filter fence, hay bales, inlet protection required either by the plans, City staff or assigned representative, furnishing and placement of topsoil, establishment of vegetative cover for disturbed areas by the contractor, in accordance with the Contract Drawings and Technical Specifications; The lump sum price of: TWELVE HUNDRED dollars and ZERO cents [in words]	($ 1,200.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
3.4	Earthwork and Grading	The work under this item shall include all materials, equipment and labor to perform necessary grading operations as shown on the Contract Drawings and described in the Technical Specifications. Work under this item shall include clearing and grubbing of lawn and topsoil to subgrade and grading in order to bring elevations to the subgrade elevation required prior to the application of processed stone, gravel stone base, bituminous concrete pavement, wood fiber mulch or topsoil. This work includes any importation of materials or removal of materials, including rock, from the site as required to achieve proposed subgrades The lump sum price of: _____dollars and_____cents [in words]	($ 5,000.00) [in figures]
3.5	Fencing & Guiderail	The work under this item shall include all materials, equipment and labor to furnish and install fencing, supply and install new chain link fencing, swing gates, sonotubes, posts, guiderail, and foundations, including but not limited to concrete footings, fabric, fittings, latches, pipe, drop-bar assemblies, sleeves, hardware and fasteners as shown on the Contract Drawings and Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($ 19,000.00) [in figures]
3.6	Site Drainage	The work under this item shall include all materials, equipment and labor to supply and install storm drainage system and perforated underdrain system within the project site as shown on the Contract Drawings and described in the Specifications, including but not limited to trenching and backfilling, sawcutting and pavement repair, installation of appropriate bedding, drainage pipes, area drains, underdrains, flat drains, stone drainage layer, and all other associated work shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: _____dollars and_____cents [in words]	($ 13,500.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
3.7	Playground Equipment	The work under this item shall include all materials, equipment and labor to furnish and install all playground equipment and accessories, including all concrete footings. as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: SIXTY-TWO THOUSAND dollars and ZERO cents (in words)	($ 62,000.00) [in figures]
3.8	Playground Surfacing	The work under this item shall include all materials, equipment and labor to furnish and install engineered wood fiber mulch as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: SIX THOUSAND dollars and ZERO cents (in words)	($ 6000.00) [in figures]
3.9	Parking Area, Pavements and Curbing	The work under this item shall include all materials, equipment and labor to furnish and construct bituminous concrete driveway and parking lot areas. This item shall include all subbase and base courses, bituminous concrete, concrete curbing, line markings, signage and placement of all materials necessary for the completion of the work as shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: FORTY-NINE THOUSAND, NINE HUNDRED dollars and ZERO cents [in words]	($ 49,900.00) [in figures]

The Amount Bid for Item 3.0 - Margaret M. Generali Elementary School (sum of items 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, and 3.9) equals:

ONE HUNDRED NINETY-TWO THOUSAND, ONE HUNDRED dollars

and ZERO cents [in words]

($ 192,100.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

SECTION 00400

(SCHEDULE OF VALUES)

ITEM 4.0 - WALSH ELEMENTARY SCHOOL

The following schedule of values is a breakdown of the amount bid for Item 4.0 – Walsh Elementary School as listed above. The schedule of values will be used for reference when evaluating pay requisitions submitted by the contractor.

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
4.1	Mobilization and Site Preparation	The work under this item shall include all materials, equipment, and labor necessary for mobilization and administrative costs including the movement of all the contractor's field offices, buildings, facilities; safety fencing and equipment to and from the project site, and construction staking, as necessary to the performance of the work. This section shall also include any cost of associated with permitting and bonding. If test pits are needed, it will be considered work under this item; The lump sum price of: ELEVEN THOUSAND, EIGHT HUNDRED dollars and ZERO cents [in words]	($ 11,800.00) [in figures]
4.2	Site Removals	The work under this item shall include all materials, equipment and labor to perform the removal of all items shown on the plans including but not limited to the removal / disposal of existing play equipment, wood edging, wood mulch (full depth), chain link fence, saw cut and removal of bituminous concrete pavement (full depth), concrete sidewalk and materials encountered incidental to construction as described in the Contract Drawings and Technical Specifications; The lump sum price of: TWENTY ONE THOUSAND dollars and ZERO cents [in words]	($ 21,000.00) [in figures]
4.3	Sedimentation and Erosion Control	The work under this item shall include all materials, equipment and labor for the installation and maintenance of a construction entrance pad, sedimentation and erosion controls, including but not limited to sediment filter fence, hay bales, and inlet protection required either by the plans, or City staff or assigned representative, in accordance with the Contract Drawings and Technical Specifications; The lump sum price of: THIRTY-SIX HUNDRED dollars and ZERO cents [in words]	($ 3,600.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
4.4	Earthwork and Grading	The work under this item shall include all materials, equipment and labor to perform necessary grading operations as shown on the Contract Drawings and described in the Technical Specifications. Work under this item shall include grading in order to bring elevations to the subgrade elevation required prior to the application of processed stone, gravel stone base, bituminous concrete pavement, wood fiber mulch or top soil. This work includes any importation of materials or removal of materials from the site, including rock, as required to achieve proposed subgrades The lump sum price of: TWENTY-ONE THOUSAND, ONE HUNDRED dollars and ZERO cents [in words]	($ 21,100.00) [in figures]
4.5	Fencing and Railing	The work under this item shall include all materials, equipment and labor to supply and install new metal handrail, chain link fencing, swing gates, sonotubes, posts, and foundations, including but not limited to concrete footings, fabric, fittings, latches, pipe, drop-bar assemblies, sleeves, hardware and fasteners as shown on the Contract Drawings and Technical Specifications; The lump sum price of: TWENTY THOUSAND, FOUR HUNDRED FORTY dollars and ZERO cents [in words]	($ 20,440.00) [in figures]
4.6	Site Drainage	The work under this item shall include all materials, equipment and labor to supply and install storm drainage system and perforated underdrain system within the project site as shown on the Contract Drawings and described in the Specifications, including but not limited to trenching and backfilling, saw cutting & pavement repair, installation of appropriate bedding, drainage pipes, underdrains, flat drains, manholes, and all other associated work shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: THIRTY THOUSAND, NINE HUNDRED dollars and ZERO cents [in words]	($ 30,900.00) [in figures]

PLAYGROUND IMPROVEMENTS
WATERBURY, CONNECTICUT

Item No.	Item Name	Brief Description; Lump Sum Bid Price in Words	Lump Sum Bid Price in Figures
4.7	Concrete Sidewalks, Stairs, and Curbing	The work under this item shall include all materials, equipment and labor to furnish and construct concrete sidewalk, stairs, and curbing. This item shall include all subbase and base courses, concrete, and placement of all materials necessary for the completion of the work as shown on the Contract Drawings and as specified in the Technical Specifications; The lump sum price of: TWENTY-NINE THOUSAND SEVEN HUNDRED dollars and ZERO cents [in words]	$29,700.00
4.8	Playground Equipment	The work under this item shall include all materials, equipment and labor to furnish and install all playground equipment and accessories, including all concrete footings as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: SIXTY-THREE THOUSAND EIGHT HUNDRED dollars And ZERO cents (in words)	$63,800.00
4.9	Playground Surfacing	The work under this item shall include all materials, equipment and labor to furnish and install poured-in-place rubberized safety surface including a manufacturer specified crushed stone base as shown on the Contract Drawings and as specified in the Technical Specifications. The lump sum price of: FORTY-NINE THOUSAND, ONE HUNDRED SIXTY dollars And ZERO cents (in words)	$49,160.00
4.10	Topsoil, Plantings, and Bark Mulch	The work under this item shall include all materials, equipment and labor to install all areas of plant beds including amending and placement of topsoil, plantings, and bark mulch as shown on the Contract Drawings and described in the Technical Specifications under Plantings; The lump sum price of: FIFTY-TWO HUNDRED dollars and ZERO cents [in words]	($ 5,200.00) [in figures]

The Amount Bid for Item 4.0 - Walsh Elementary School (sum of items 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, and 4.10) equals:

TWO HUNDRED, FIFTY SIX THOUSAND, SEVEN HUNDRED dollars

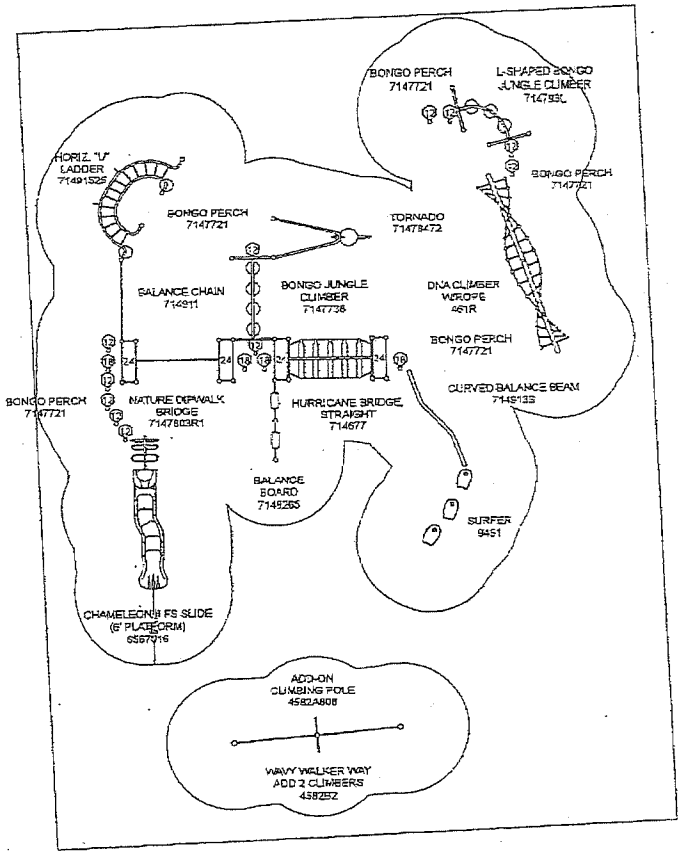
and ZERO cents [in words]

($ 256,700.00) [in figures]

Chase Elementary School

AGE GROUP: 5-12	
ELEVATED PLAY ACTIVITIES - TOTAL: 3	
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER:	0 REQ'D 3
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP:	0 REQ'D 0
GROUND LEVEL ACTIVITY TYPE	0 REQ'D 0
GROUND LEVEL QUANTITY:	14 REQ'D 2

5-12



IPEMA CERTIFIED TO ASTM F1487

To verify product certification, visit www.ipema.org

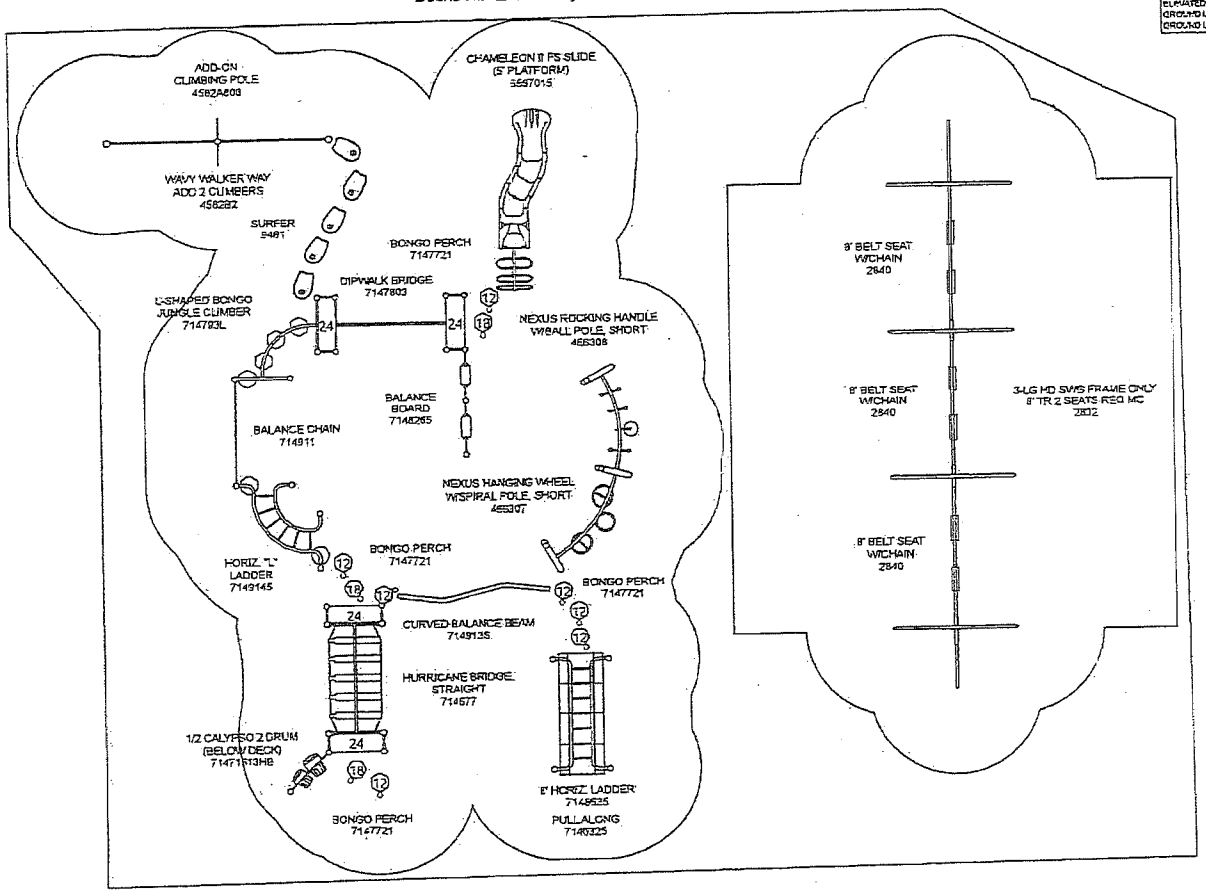
Miracle

CREATIVE RECREATION 135 Day Street Newington,CT PHONE NO: (860) 953-5336 FAX NO: (860) 953-5337	R0073_43236421418	To promote safe and proper equipment use by children. Miracle recommends the installation of either a Miracle safety sign or other appropriate safety signage near each playsystem's main entry point(s) to inform parents and supervisors of the age appropriateness of the playsystem and general rules for safe play.	THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487.
GROUND SPACE: 48'-0" x 67'-0"	COMPLIES TO ASTM/CPSC		
PROTECTIVE AREA: 56'-0" x 78'-6"			AN ENERGY ABSORBING PROTECTIVE SURFACE IS REQUIRED UNDER & AROUND ALL PLAY SYSTEMS
DRAWN BY: John Ciccarello DATE: 5/18/2016	COMPLIES TO ADA		

Bucks Hill Elementary School

AGE GROUP: 5-12	
ELEVATED PLAY ACTIVITIES - TOTAL: 4	
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER:	0 REQD 2
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP:	0 REQD 0
GROUND LEVEL ACTIVITY TYPE:	7 REQD 1
GROUND LEVEL QUANTITY:	34 REQD 1

5-12



IPEMA CERTIFIED TO ASTM F1487

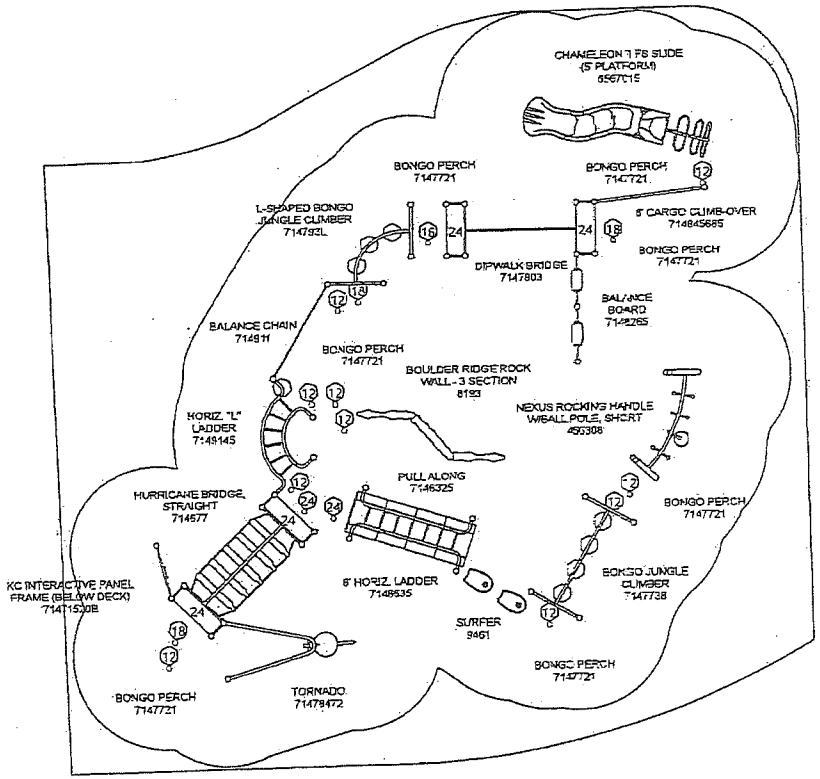
To verify product certification, visit www.ipema.org

Miracle

CREATIVE RECREATION 135 Day Street Newington, CT PHONE NO: (860) 953-5336 FAX NO: (860) 953-5337	R0073_43235652498	To promote safe and proper equipment use by children. Miracle recommends the installation of either a Miracle safety sign or other appropriate safety signage near each playsystem's main entry point(s) to inform parents and supervisors of the age appropriateness of the playsystem and general rules for safe play.	THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487.
GROUND SPACE: 85'-8" x 51'-0"	COMPLIES TO ASTM/CPSC		AN ENERGY ABSORBING PROTECTIVE SURFACE IS REQUIRED UNDER & AROUND ALL PLAY SYSTEMS
PROTECTIVE AREA: 85'-0" x 54'-0"			
DRAWN BY: John Ciccarello DATE: 5/18/2018	COMPLIES TO ADA		

Generali Elementary School

AGE GROUP: 5-12	5-12
ELEVATED PLAY ACTIVITIES - TOTAL: 5	
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER: 0 REQ'D: 3	
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP: 3 REQ'D: 0	
GROUND LEVEL ACTIVITY TYPE: 7 REQ'D: 2	
GROUND LEVEL QUANTITY: 11 REQ'D: 2	



IPEMA CERTIFIED TO ASTM F1487

To verify product certification, visit www.ipema.org

Miracle

CREATIVE RECREATION
135 Day Street
Newington, CT
PHONE NO: (860) 953-5336
FAX NO: (860) 953-5337

GROUND SPACE: 40'-6" x 43'-0"

PROTECTIVE AREA: 55'-0" x 56'-0"

DRAWN BY: John Ciccarello

DATE: 5/18/2018

R0073_43236463147

COMPLIES TO ASTM/CPSC

COMPLIES TO ADA

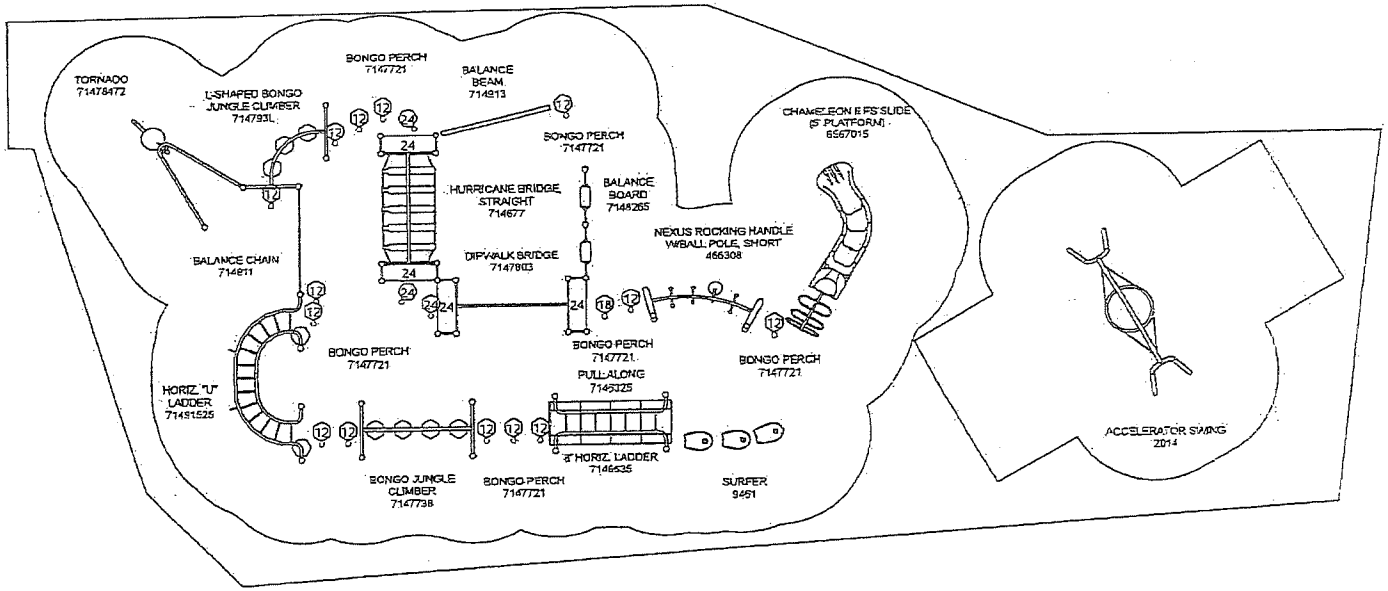
To promote safe and proper equipment use by children, Miracle recommends the installation of either a Miracle safety sign or other appropriate safety signage near each playsystem's main entry point(s) to inform parents and supervisors of the age appropriateness of the playsystem and general rules for safe play.

THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487.

AN ENERGY ABSORBING PROTECTIVE SURFACE IS REQUIRED UNDER & AROUND ALL PLAY SYSTEMS

Walsh Elementary School

AGE GROUP: 5-12	5-12
ELEVATED PLAY ACTIVITIES - TOTAL: 6	
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER: 6 REQ'D 3	
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP: 0 REQ'D 0	
GROUND LEVEL ACTIVITY TYPE: 4 REQ'D 3	
GROUND LEVEL QUANTITY: 13 REQ'D 2	



IPEMA CERTIFIED TO ASTM F1487

To verify product certification, visit www.ipema.org

Miracle

CREATIVE RECREATION 135 Day Street Newington, CT PHONE NO: (860) 953-5336 FAX NO: (860) 953-5337	R0073_43236600766	To promote safe and proper equipment use by children. Miracle recommends the installation of either a Miracle safety sign or other appropriate safety signage near each playsystem's main entry point(s) to inform parents and supervisors of the age appropriateness of the playsystem and general rules for safe play.	THE PLAY COMPONENTS IDENTIFIED IN THIS PLAN ARE IPEMA CERTIFIED. THE USE AND LAYOUT OF THESE COMPONENTS CONFORM TO THE REQUIREMENTS OF ASTM F1487.
GROUND SPACE: 78'-0" x 27'-0"	COMPLIES TO ASTM/CPSC		
PROTECTIVE AREA: 93'-6" x 39'-6"			AN ENERGY ABSORBING PROTECTIVE SURFACE IS REQUIRED UNDER & AROUND ALL PLAY SYSTEMS
DRAWN BY: John Ciccarello DATE: 5/18/2018	COMPLIES TO ADA		

GENERAL SPECIFICATIONS

SAFETY STANDARDS & GUIDELINES All public playground equipment supplied shall meet all applicable provisions of the current "Handbook for Public Playground Safety" published by the Consumer Product Safety Commission (CPSC), and of ASTM F1487-01 "Standard Consumer Safety Performance Specification for Playground Equipment for Public Use," published by the American Society for Testing and Materials (ASTM). Products bearing the certification seal of the International Play Equipment Manufacturers Association (IPEMA) have received written validation of compliance with ASTM F1487-01.

TRADEMARKS Aquarius (R), Big Kahuna (R), Big Timber (R), Bongo (TM), Boulder Ridge (R), Bug Bites (R), Camel Back (TM), Center Stage (R), Chameleon (TM), Coil Curler (TM), Connexion (R), Dupli-Gator (R), Flex Jet (R), Flippo (TM), Flippopotamus (R), Fun Fone (TM), Fun Tunnel (R), Funnel Tunnel (TM), Funshades (TM), Gator Grip (R), Gemini (TM), Gravity (TM), Grizz-Lee Bear (R), Groove (TM), Groove It (R) Slide, Hang-A-Round (R), Interaxion (TM), JAX (R), Kidrox (R), Kids' Choice (R), Kids' Perch (TM), Libra (R), Linkz (TM), Loopz (TM), Mega Tower (R), Miracle (R), Miracle Recreation (R), Mira-Cote (R), Mira-Lam (TM), Mira-Lene (TM), Mira-Therm2 (TM), Mogul (TM), Mountain Trail (R), N-Dure Cycle (R), Nexus (R), Observation Deck (R), Offspring (TM), OrbX (R), Pegasus (R), Penna-Guard (TM), Perseus (TM), Phyzics (R), Play Cover (R), Play Terrain (R), Power Pedaler (TM), Pull UpLift (R), Reflex (R), Relay Racer (R), Rock-Ite (R), Rodeo Rocky (TM), Schnozz Womp (TM), Serpent Trek (TM), Sneak-A-View (TM), Sun Sparkle (TM), Surfer (R), Tensile Tough (TM), Tensile Tower (TM), Thunder Tunnel (TM), Timber Topper (TM), Toboggan (TM), Toddlers' Choice (R), Tots' Choice (R), Tots' Choice (R) Expansion, Tots' Choice (TM) for Toddlers, Trim Timber (R), Triple Play (TM), Typhoon (TM), Versalok (R), View Groove (TM), Wavy Waffle Wall Walker (TM), Webscapes (R), Whirlwind (TM), Xcalator (R), and X-Cavator (TM) are trademarks of Miracle Recreation Equipment Company. Tornado (TM), Multi-Pondo (TM), and Pirouette (TM) are trademarks of HAGS (TM). Miracle and HAGS are divisions of PlayPower, Inc. PlayPower (R) is a trademark of PlayPower, Inc.

QUALITY SYSTEM CERTIFICATION The manufacturer's quality system is certified to ISO 9001 since December 1998.

PRODUCT CHANGES At Miracle Recreation Equipment Company, we strive for the utmost in quality and safety in our entire product line. Therefore, in order to honor this commitment to you, our customers, we reserve the right to make changes on any product released and/or published in our annual catalog and other promotional or technical literature.

WARRANTY

Miracle Recreation Equipment Company warrants its products against structural failure due to defects in materials and workmanship for the warranty periods and material categories prescribed below.

1. LIMITED WARRANTY FOR AS LONG AS YOU OWN THE PRODUCT: Aluminum deck posts, steel deck posts, VersaLok (R) fastening system and associated fastening hardware.

2. LIMITED FIFTEEN (15) YEAR WARRANTY: All rigid steel playground components and weldments, rotationally molded and sheet plastic components, plastic lumber, roof panels, and stainless-steel slides, except as otherwise specified below.

3. LIMITED TEN (10) YEAR WARRANTY: Fabric shade steel frames.

4. LIMITED EIGHT (8) YEAR WARRANTY:
   - Fiberglass signage, accessible swing seats, precast PolyFiberCrete or precast concrete products.
   - Play Terrain Synthetic Turf safety surfacing against deterioration of specified attenuation performance and appearance.
   - Playcover fabric and components against rot, UV deterioration and defects in materials and workmanship (Note Exception: Limited Three (3) Year Warranty for fabric in shades of red).

5. LIMITED FIVE (5) YEAR WARRANTY:
   - Heavy duty diamond barrier mesh and Kidrox Climbing Rocks.
   - Miratherm PVC coating against cracking or peeling.
   - Park and Site Amenities (i.e. benches, tables, trash receptacles, etc.).
   - Steel core cable nets and rope fittings and connections (Note Exception: Warranty does not cover normal wear and tear such as fraying or facing of cable coating).

6. LIMITED THREE (3) YEAR WARRANTY: Flexible belting, plastic border timbers and accessories, and electronic panel speakers, sound chips, and circuit boards.

7. LIMITED ONE (1) YEAR WARRANTY:
   - Slashproof Swing Seats, 360° Bucket Tot Swing Seats and Tuff Net no climbing mesh.
   - Pool slide support structures, stairways, landings and railings.
   - All other products and components that are notspecifically listed above, including, without limitation, all moving parts, such as swing hangers, swivels, chains, whirls, springs and flexible components, and all high wear items, such as trolleys, cables, wheels, and bumper stops related to rail and cable ride products.

BUYER'S REMEDY: If any products prove defective or non-conforming under normal use and within the above-prescribed warranty periods and material categories, Buyer must promptly notify Miracle in writing at 878 E. Hwy 60, Monett, MO 65708 USA. Miracle may elect to inspect the alleged defect at Buyer's site or at Miracle's facility. Buyer shall not return products to Miracle unless authorized by Miracle to do so. Authorized returns must be properly packaged and

shipped prepaid and insured, at Buyer's expense. Upon verification of warranty coverage, Miracle may elect, in its sole discretion, to repair defective or non-conforming products, or replace them by delivering products or part(s) free of charge to the site. Miracle's limited warranties do not cover the cost of labor to remove defective or non -conforming part(s) or to install repaired or replacement part(s). By use of these limited warranties, Buyer accepts their terms and limitations, and waives any rights it would otherwise have to claim or assert that such warranties fail of their essential purpose. Buyer agrees that venue for any court action to enforce these limited warranties shall be in Barry or Greene Counties in the State of Missouri.

LIMITATIONS: All warranty periods begin on the date of Miracle's invoice. Repaired and/or replacement part(s) are warranted only for the balance of the original limited warranty period. Warranties extend only to the original Buyer/end user for products purchased from Miracle or a Miracle authorized reseller and are not transferrable.
Warranties apply only to Miracle products that are erected and installed in conformance with Miracle's installation instructions, and that are maintained and inspected in conformance with Miracle maintenance and operational instructions.

Warranties specifically do not cover Miracle products:

- for cosmetic damage or flaws occurring under normal use, such as surface scratches, minor chips, hairline cracks, dents, marring, efflorescence, color fade (except for PlayCover® shade fabric as noted above), discoloration, corrosion, fraying, or warping of recycled plastic lumber;
- that have been modified, altered, or repaired by unauthorized third parties;
- that have not been used as designed or intended, or misused;
- to which non-Miracle parts have been added or substituted;
- that have been removed from their original location and re-installed elsewhere, without pre-approval by Miracle;
- or that have been damaged due to excessive wear and tear, vandalism, abnormal use, abuse, negligence, environmental factors (such as wind-blown sand, salt spray, or airborne emissions from industrial sources), extreme weather (such as hail, flooding, lightning, tornados, sandstorms, earthquakes, or wind storms), and acts of God.

THE FOREGOING LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY FOR SELLER'S PRODUCTS, AND IS INLIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, IN LAW OR IN FACT. SELLER SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LOMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING OUT OF COURSE OF DEALING OR PERFORMANCE OR TRADE USAFGE. SELLER SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, SPECIAL, OR PNITIVE DAMAGES, OR ANY LOSS OF REVENUE, PROFICT OR USE, ARISING OUT OF A BREACH OF THIS WARRANTY OR IN CONNECTION WITH THE SALE, INSTALLAITON, MAINTENANCE, USE, OPERATION OR REPAIR OF ANY PRODUCT. IN NO EVENT WILL SELLER BE LIABLE FOR ANY AMOUNT GREATER THAN THE PURCHASE PRICE OF A DEFECTIVE PRODUCT.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes"
for specifications of items listed in bold type.

- VERSADECK shall be a 16" wide deck with enclosures. Versadeck may be in used in a variety of deck and/or transfer applications. Deck section shall be constructed with folded 11 ga. steel sheet forming 3" tall sides with 3/16" x 1-1/2" flat steel braces, all solid welded. Decking sheet shall be perforated with a staggered pattern of 3/8" diameter holes at 5/8" apart center-to-center. Deck shall measure 48" in length at 16" in width. Enclosure shall comprise two outer uprights and a top rail, all solid welded. Uprights and top rail shall be constructed of 1" pipe, Gator Grip and uprights shall have mashed ends for deck attachment. Enclosure shall measure 40" in length and 9-1/2" in width. The assembly shall contain Versalok Fasteners and Fastener Style A hardware. Deck shall be finished in Mira-Therm2. Enclosure shall be finished in Mira-Cote.

- KIDS' CHOICE STEEL POSTS each shall be constructed of 5" tube with a 5" round end cap pressed into its top end. Post and end cap shall have a Mira-Cote finish.

- DIPWALK BRIDGE assemblies (spanning 8' and 12') shall be horizontal climbing bridges between 2', 2'-6", 3', 3'-6", or 4' decks of equal height. The top and bottom rails and uprights shall be 1-1/4" pipe. The bridge shall be fastened between decks in the field using 1/4" plate with 2-1/2" bolts. The climbing bridge shall be fastened to arched entry enclosures in the field using 3/8" bolts. The bridge assembly shall be solid welded. Arched entry enclosures shall comprise top and bottom supports, sleeve support, arched upright and vertical rungs. The sleeve support shall be 1-1/4" pipe, 10 ga., solid welded to the arch. The top and bottom supports and upright shall be 1" pipe, formed, mashed and punched, solid welded to vertical rungs of 3/4" x 1" oval tube. The Nature Arch Enclosure shall comprise two top supports and arched upright of 1" pipe solid welded. Brackets of 11 ga. galvanized sheet steel are stitch welded to the 1" pipe frame. Boards of 1" x 5.5" recycled plastic and wood composite are fastened to the frame with Fastener Style A hardware. The sleeve support shall be constructed of 1-1/4" pipe, 10 ga., solid welded to the arch. The assembly shall contain Versalok Fasteners and Fastener Style A. The climbing bridge assembly, arched entry enclosures, and clamps shall be finished in Mira-Cote.

- HURRICANE BRIDGE is a deck-to-deck climber. The enclosure shall comprise main rail and enclosure tube of 1.215" x 14 galv. embossed, spokes of oval tube .750 x 1 x 15 ga. galv., and a plate of 11 ga. galv. sheet. The rails shall be constructed of 3.5 tube OD x 11 ga. galv. Rings shall be constructed of Rock-lte. The assembly shall contain Versalok Fasteners and Fastener Style A hardware. The enclosure and clamps shall have a Mira-Cote finish. The Rails shall be available in Mira-Therm finishes.

- HORIZONTAL LADDERS shall be available in multiple configurations. The ladder rails shall be constructed of 2" pipe measuring 95" long (*except Tot's Choice models which shall have rails of* 1" pipe *measuring 72"*). Ladder rungs shall be constructed of 1" pipe, solid welded (*except Tot's Choice models which shall have rungs of* 1" tube). For models with optional end climbers, the end climber assembly shall be constructed of 1" pipe, formed. The assembly shall be solid welded. For models with optional deck enclosures, the enclosure assemblies shall consist of enclosure rails and uprights. The enclosure rails shall be constructed of 1" pipe (*except Tots' Choice models which shall be* 1" tube), drilled, with plastic pipe plugs inserted in open ends. The uprights shall be constructed of 3/4" x 1" oval tube *(except Tots' Choice models which shall be* 1" tube,) mashed on both ends. The enclosure assemblies shall be solid welded. The posts shall be constructed and finished in the same manner as deck posts (*The Kids' Choice system also offers an option of aluminum posts for this component.*) Each assembly shall include Versalok Fasteners and Fastener Style A and Fastener Style B hardware. The assemblies shall have a Mira-Cote finish.

- BALANCE BOARD with Handholds shall comprise a chain-suspended step and two handholds for attachment to deck posts. This challenging dynamic activity helps children develop balance and coordination. The step shall be constructed of T.P.R. injection molded over an aluminum core and shall measure approximately 17-1/2" wide by 9" deep by 1-3/8" thick. Step brackets each shall be constructed of 7 ga. galvanized sheet, formed and punched, solid welded with a 1-1/4" O.D. by 9/16" I.D. steel bushing housing containing a 9/16" O.D. by 3/4" oil impregnated bushing. The bushing housing rings shall be constructed of 5" Sch 40 pipe, drilled and formed, solid welded with a bushing housing and bushing as above. Chains shall be 4/0 straight link coil chain measuring approximately 8-3/4" and shall be field assembled between bushings of step brackets and rings with steel shackles. The handholds shall comprise formed 1" pipe bars, approximately 28-1/4" long, solid welded to formed and drilled bolt plates of 5" Sch 40 pipe. The assembly shall contain Fastener Style A hardware and Fastener Style B hardware. The step brackets, bushing housing rings, and handholds shall be finished in Mira-Cote. The step shall have color molded in. The chains shall have a galvanized finish.

- BALANCE CHAIN models shall comprise two parallel chains, one above the other, with the bottom chain used to walk upon and the top chain used as a handhold. This fun and challenging activity helps users develop coordination and balance. Each model shall consist of chains, clevises with bolts and mounting bracket at each end, and a rail assembly handhold. Some models include one post for field assembly of balance chain between it and an existing deck post. The rail assembly shall consist of rail, end caps and stubs on each end. The rail shall be 2" pipe, end caps shall be constructed of 16 ga. sheet, and stubs shall be constructed of 1" pipe, all solid welded. The chains shall be galvanized 3/8" proof coil chain. The clevis shall be cast of malleable iron. The mounting bracket shall be a welded assembly. It shall consist of a 1/2" bolt, 1/4" thick die-formed steel bracket, 1-1/4" diameter steel housing and a pressed in oil impregnated bushing to eliminate wear. Post for Model # 714-912 shall be constructed of 5" tube, 11 ga. Post for Model # 714-912-2 shall be constructed of 5" aluminum tube. Post for Model # 714-912-3 shall be constructed of 5" tube. The post shall have a 5" round end cap pressed into its top end. The assembly shall contain Versalok Fasteners and Fastener Style A hardware. The chains shall be coated with Mira-Therm2. The rail, clamps, posts and mounting brackets shall have a Mira-Cote finish.

- BONGO BRIDGES shall be designed to enter/exit 2' or lower deck systems, either as a bridge between decks, a ground-to-deck "stair," or as a freestanding assembly with no decks. When installed as a bridge, pods may be installed at ascending/descending heights or all level but should follow a straight course between decks. Freestanding pods may ascend and descend and may follow any course so long as pods are set 7" to 9" edge-to-edge. Pods may also be clustered and installed flush with each other to create a table, seats, small climber, etc. Regardless of layout and design, pod steps top surface may be set no greater than 24" from finished grade. Note: If designing as bridge between 2'-0" decks intended for 2 to 5-year-old users, deck enclosures Model # 714-813-5 must be installed on each deck, which shall be sold separately. Each pod step shall be constructed of Rockite and shall contain a honeycomb textured, hex-shaped top surface measuring approximately 16" diameter. Pod steps shall measure 12" high without posts. Posts shall be constructed of 1-1/2" pipe with a 5-7/8" diameter mounting plate of 11 ga. G-90 galvanized solid welded to the posts. Post lengths shall be 38-5/16" before field assembly to pods. Overall assembled length shall be 42". All fasteners shall be Fastener Style A. The Rockite pod steps shall have color molded in. The posts shall be finished in Mira-Cote.

- BONGO JUNGLE CLIMBER models shall provide children with a physically challenging and imaginative play experience. Each model shall contain pods attached to vertical rungs which shall be field assembled between header and chain-anchor assemblies to concrete footings, suspended so that children must step onto successive pods and grasp vertical rungs to proceed across an area. Ground-to-deck and freestanding models shall contain stationary pod steps for entry/exit. Handrails and enclosures shall be included with models. All models shall comprise five vertical rung assemblies, including a clevis, a 62-13/16" length of 1" pipe with 5-7/8" diameter mounting plate of 11 ga. G-90 galvanized solid welded, factory-installed 3/8" eye-bolts and 3/8" proof coil chain, chain-anchor assembly of 6/0 straight link coil chain, and hardware to be field assembled to pods, header and footings. The pods for field assembly to vertical rungs (and pod steps, if applicable) shall be constructed of Rockite. Each pod shall contain a honeycomb textured, hex-shaped top surface measuring approximately 16" diameter. Pods shall measure 12" high without posts. Model # 714-773-1 shall contain three pod steps, Model # 714-773-2 shall contain six pod steps, and Model #714-773-8 shall contain four pod steps. Model # 714-786-1 shall contain four pod steps, Model # 714-786-2 shall contain eight pod steps, and Model #714-786-8 shall contain four pod steps. Inert pod steps shall comprise honeycomb pods and posts of 1-1/2" pipe with 5-7/8" diameter mounting plate of 11 ga. G-90 galvanized solid welded. Post lengths shall be 50-3/8" and 69-3/8" before field assembly to pods. Stepping pod/post assemblies shall have overall lengths of 52" and 71", respectively, before fitting at appropriate heights in footings. All models shall contain a header assembly constructed of 2" pipe solid welded. Header supports shall be aluminum alloy. Model # 714-773, # 714-773-8, # 714-786 and #714-786-8 each shall contain two deck enclosures and # 714-773-1 and # 714-786-1 each shall contain one deck enclosure. Deck enclosure shall consist of rails and uprights. The rails shall be constructed of 1" pipe, formed, mashed and punched. The uprights shall be constructed of 3/4" x 1" oval tube. The enclosure shall be solid welded. Model # 714-773-1 and # 714-786-1 each shall contain one set of handholds, and # 714-773-2 and # 714-786-2 each shall contain two sets of handholds, to be constructed of formed and solid welded 1" pipe, for field assembly to posts via clamps. Posts for Model # 714-773-1, # 714-773-2, # 714-773-8, # 714-786-1, # 714-786-2 and # 714-786-8 shall be constructed of 5" tube, 11 ga. Posts for Model # 714-773-13, # 714-773-23, # 714-786-13 and # 714-786-23 shall be constructed of 5" tube. Each post shall

have a 5" round end cap pressed into its top end. Each assembly shall contain Versalok Fasteners and Fastener Style A hardware. The Rockite honeycomb pods shall have color molded in. The vertical rungs, step posts, deck enclosures, handholds, posts and clamps shall have a Mira-Cote finish.

- BONGO JUNGLE CLIMBER (L-SHAPED) shall provide children with a physically challenging and imaginative play experience. Designed for attachment between 2' or 3' decks, it shall contain pods attached to vertical rungs which are field assembled between header and chain-anchors to concrete footings, suspended so that children must step onto successive dynamic pods and grasp vertical rungs to proceed across the area. Deck enclosures shall be provided. The model shall contain three vertical rung assemblies, including a clevis, a 62-13/16" length of 1" pipe with 5-7/8" diameter mounting plate of 11 ga. G-90 galvanized solid welded, factory-installed 3/8" eye-bolts and 3/8" Proof coil chain, and a chain-anchor of 6/0 straight link coil chain. The vertical rungs shall be field assembled to stepping pods, which shall be constructed of Rockite. Each pod shall contain a honeycomb-textured, hex-shaped top surface measuring approximately 16" diameter. Pods shall measure 12" high. The top rail shall be constructed of 2" pipe solid welded. Header supports shall be aluminum alloy. Deck enclosures shall consist of rails and uprights. The rails shall be constructed of 1" pipe and the uprights shall be constructed of 3/4" x 1" oval tube. Each enclosure shall be solid welded. The assembly shall contain Versalok Fasteners and Fastener Style A and Fastener Style B hardware. The stepping pods shall have color molded in. The vertical rungs, deck enclosures and clamps shall have a Mira-Cote finish.

- POD SEATS shall be designed to attach to existing Kids' Choice deck posts, creating a resting seat. Pods shall be constructed of Rockite and shall contain a hex-shaped top surface measuring approximately 14-1/2" in diameter. Pods shall measure 12" without frame. Frame shall be constructed of a horizontal bar constructed of 2" pipe; a 5" diameter bolting plate of 5" Sch 40 pipe solid welded to the frame's horizontal bar; seat support post(s) measuring 11" constructed of 1-1/2" pipe solid welded to the frame's horizontal bar; post mount plate(s) measuring 5-7/8" x 5-7/8", constructed of 11 ga. galvanized solid welded to the seat support post(s). Frame length for Model # 714-817-3B shall be 11-1/4" before field assembly to pod seat. Frame length for Model # 714-817-4B shall be 43" before field assembly to pod seats. All fasteners shall be Fastener Style A. The Rockite pod seats shall have color molded in. The frames shall be finished in Mira-Cote.

- TORNADO is a dynamic play activity which permits a single user standing on a suspended/elevated platform, grasping a center pole, to use his or her body weight to cause the assembly to rapidly rotate around its axis at a slight angle. The user can easily reverse the assembly's direction by shifting his or her weight and cause it to slow and stop. Important Note: Mounting is possible on all Deck heights except 4'-0", 4'-6", 7'-0", or 7'-6". Deck systems of those heights contain component Clamps which interfere with and prevent mounting of Tornado model. Important Note: A barrier (e.g. panel or pipe wall) must enclose area between Posts supporting Tornado assembly (above Deck) when Tornado is assembled to Decks 2'6" and over. The upper weldment shall comprise a curved brace of 1-1/2" heavy pipe with post brackets of 5" Sch 40 pipe and gussets of 1/4" black plate solid welded to each end and a pivot bracket of 1/4" black plate welded in its center. The pole shall be constructed of 1-1/4" pipe, 10 ga. mashed on one end with a bushing sleeve of 1" O.D., 14 ga. round tube solid welded. Bushings and top cap for field attachment of pole to upper weldment shall be constructed of UHMW. The standing platform shall be constructed of a microporous polyurethane foam on a weather-resistant plywood core. The seat shaft shall be constructed of 2-1/2" Sch 40 pipe with a pivot plate of 11 ga. sheet welded to its top end, platform brackets of 11 ga. sheet welded to its top side, and steel pivot shaft, axle flange, rivet, bearings, and retaining ring completing the assembly. The alignment weldment shall comprise an alignment tube of 1-1/2" pipe and two alignment flanges of 1/4" x 48" x 120" plate. The base weldment shall comprise a base flange of 3/8" x 48" x 120" sheet, a base tube of 2" pipe, four base fins, and an end plug of 7 ga. sheet. Fasteners shall include Fastener Style A hardware and steel hardware that is hot-galvanized or electro-galvanized with a 20-um coating protected by the Corrosil anti-corrosion system. The upper weldment, pole, and seat shaft assembly shall be finished in Mira-Cote. The platform shall have color molded in. The base weldment shall be painted.

- NEXUS ROCKING HANDLE WITH BALL POLE, SHORT shall comprise Ball Pole (Model # 466-203) and Beam, Short-Rocking Handle (Model # 466-303). Components shall be field assembled to posts by means of Versalok Fasteners, Fastener Style A hardware, and/or Fastener Style B hardware. Beams-Rocking Handle shall comprise one beam bend of 2" pipe, three rocking handle mounting brackets, one horizontal connector, and two post saddle brackets of 7 ga. sheet. Model # 466-303 shall contain bushings and bushing housings and shall 88-7/16" in length. Rocking handles shall comprise two flange bearings, a pivot spacer of 2" pipe, two hollow steel antenna balls, two pivot plates and two side plates of 7 ga. sheet, and a handle of 1" pipe, Gator Grip. Handle shall be solid welded. Ball pole shall be constructed of steel and shall comprise a curved pole, ball and end plate, all solid welded. Pole shall be 112" in length and ball shall measure 12" in outside diameter.

- NEXUS STEEL POSTS each shall be constructed of 5" tube, 11 ga. Posts not designed for roof assemblies shall have 5" round end caps pressed in at the factory. Components shall be field assembled to posts by means of Versalok Fasteners, Fastener Style A hardware and/or Fastener Style B hardware. Post assemblies and clamps shall be finished in Mira-Cote.

- BALANCE BEAM shall challenge users while helping to develop coordination, balance, and strength. The beam and legs shall be constructed of 4" square tube. Beam end caps shall be die-formed 16 ga. A-60 Galvannealed steel sheet. The entire assembly shall be solid welded. The Balance Beam assembly shall have a Mira-Cote finish.

- PULL ALONG shall be an ADA component that provides children with disabilities a way to work on upper body strengthening and conditioning. Pull Along shall comprise 4 straight Rotomolded sections, factory assembled. Pull Along body (minus legs) shall measure 114" in length, 28" in width and 15" in height.

Legs shall comprise a leg solid welded to a leg plate. Leg shall be constructed of 1-1/4" pipe. Leg plate shall be constructed of 7 ga. galvanized steel. Leg assembly shall measure 43-1/16" in length. Each assembly shall contain Versalok Fasteners and Fastener Style A hardware. Legs shall have a Mira-Cote finish.

- RISK MANAGEMENT SIGN is intended to inform the parents and children that adult supervision is recommended, along with smart play on the equipment in the play area. Sign shall be constructed of aluminum 3003-H14 .08" thick powder coated white with screen printed overlay. Steel frame shall be 2 3/8" OD 12 ga. galvanized steel tube. Hardware use Fastener Style A hardware. Frame shall have a Mira-Cote finish.

- SURFER shall be a bouncing, wobbling coil spring component that encourages children to develop imagination, balance and motor skills while "surfing" the waves. The rider body shall consist of a Rockite mold measuring 24-7/8" in length, 16-1/4" in width and 6-11/16" in height. Surfer shall have 5 pre-drilled 7/16" bolt holes and one 9/16" vent hole in its center. Surfer's top surface shall have a criss-cross tread design etched into the Rockite to deter slipping. The coils spring shall be 3/4" steel wire, consisting of eight 5-1/2" O.D. coils, with a free height of approximately 13". The coil spring shall have a spring rate of 650 lbs./inch and shall be secured to the base plates by Spiral-Loks constructed of cast iron. Bolting Board Plate shall be constructed of 1/4" black ASTM-36 sheet pre-drilled with five 7/16" bolt holes and one 9/16" vent hole, and a center 'keyhole' to lock in carriage bolt during installation. Bolting Spring Plate shall be constructed of 1/4" black ASTM-36 sheet predrilled with three 11/32" inch holes, one 9/16" vent hole, and overlapping center "keyholes" to lock in carriage bolts during installation. A bolting pin shall be solid welded to bolting spring plate and shall measure 2" in length.
The base weldment shall comprise an anchor plate of 1/8" x 2" flat sheet, a top plate of 1/4" black sheet, and a center tube constructed of 5" tube, all solid welded.
All fastening hardware shall be Fastener Style A. The Rockite body shall have color molded in. The coil spring and Spira-Loks shall be finished in Mira-Cote. Bolting plates are zinc plated.

- FREESTANDING CHAMELEON II SLIDES feature a climber and are either 5' or 6' in height. The bedway sections, entry panel and exit section shall be constructed of double wall Rockite with a 18" bedway and 13-3/4" high sidewalls. The entry panel shall be supported by a rung of 1" pipe. The front leg shall be constructed of 1.5" X 16 ga. square tube and a bracket of 7 ga. galvanized sheet steel. Support legs shall be constructed of 1.66 OD x 13 ga. tube and a mounting bracket of 7 ga. sheet, solid welded. Leg bracket shall be constructed of 7 ga. galvanized sheet steel, solid welded. Steel posts shall be constructed of 5" tube, 11 ga. The pole and "U" shaped rungs shall be die-formed 1" pipe. The climber shall be a welded assembly. The assembly shall contain Versalok Fasteners and Fastener Style A hardware. The rung, front leg, support legs, climber and leg brackets shall have a Mira-Cote finish. The Rockite slide sections shall have color molded in.

- ACCELERATOR SWING Arch top and arch legs shall be constructed of RDTB ILG 3.5" 11 ga. Arch top shall have a 159-degree length and shall measure 119-1/4" in width. Arch legs shall measure 84" in length and shall be constructed of pipe 3.500 OD x 8 ga. galvanized. Legs shall have a welded stub constructed of tube 3.500 OD x 11 ga. galvanized. Legs shall have welded brackets constructed of plate 1/2". Swing is a dish-shaped aluminum vessel with drainage holes surrounded with a resistant rubber bumper. The seat is made from welded aluminum rings 3/4" in diameter with 1/8" thick formed aluminum sheeting. The bumper is 4" of resistant hollowed rubber surface attached to the dish. Ropes are 20 mm diameter cable reinforced with 7 strands of steel cable covered with U.V. resistant nylon fiber. On each arch, a stainless-steel swivel is attached through a cable loop using a compressed aluminum sleeve. The cable is attached to the dish using rubber covered chain links. To balance the swing, chain links are attached at 4 different locations to welded aluminum components on the swing seat using stainless steel vandal proof hardware. The aluminum components are made from machined aluminum parts with rounded edges designed to prevent the rubber from breaking or being vandalized. All fastening hardware shall be vandal proof stainless steel hardware, or Fastener Style A. Ropes available in blue, bumper in green, and saucer in blue Mira-Cote on bottom with polished silver aluminum top. Posts finished in Mira-Cote.

Technical Data for Processes and Finishes of the Highlighted Items

- aluminum alloy conforms to the following: ASTM 356, ANSI 322, Chrysler MS 2417 and General Motors GM 4323-M. Parts or components constructed of aluminum alloy are either *sand cast* or *die cast*. *Sand cast aluminum alloy* is 319 with tensile strength of 27,000 p.s.i. and yield strength of 18,000 p.s.i. *Die cast aluminum alloy* is 383.1 with tensile strength of 45,000 p.s.i. and yield strength of 22,000 p.s.i.

- 3/8" proof coil chain is trivalent zinc finish with a 2,650-pound working load limit. All chain shall be manufactured to ASTM A467-86A Class CS specifications.

- 4/0 straight link coil chain is trivalent zinc finish with a 670-pound working load limit. All chain shall be manufactured to ASTM A467-86A Class CS specifications.

- 6/0 straight link coil chain is trivalent zinc finish with a 1,100-pound working load limit. All chain shall be manufactured to ASTM A467-86A Class CS specifications.

- Mira-Therm2 coated chain is a welded chain with links sufficiently wide to allow them to pass one another freely, eliminating the tendency to kink. The links are low carbon zinc plated steel with a polyvinyl chloride coating.

- Versalok Fasteners (R) are cast aluminum alloy. Each fastener consists of two die cast aluminum alloy "half ring" pieces, which were designed to fasten onto the round posts by use of a male/female interlock. For 3-1/2" post, outside dimension of the completed fastener (joined "half-rings") is 5". For 5" post, outside dimension of the completed fastener is 6-1/2". *Rungs and components* connect to clamps on posts by means of die cast aluminum alloy, two-piece socket receptors which may be assembled to a previously-installed clamp ring and secured to the clamp and component by set screws (and tek screws in some cases). *Decks* connect to clamps on posts by means of die cast aluminum alloy, one-piece deck support castings. The clamp assembly and socket receptor have a Mira-Cote finish. Kids' Choice components with 2" pipe mounting points attach to 5" posts using aluminum alloy sand cast header supports.

- 5" round end cap is die cast aluminum alloy.

- Fastener Style A is a corrosion resistant, 18-8, stainless steel, vandal resistant fastener.

- Fastener Style B is an all aluminum blind rivet or aluminum drive rivet with stainless steel pin. Both are corrosion resistant and vandal resistant fasteners.

- GATOR GRIP (TM) is a three-dimensional textured pattern exclusive to Miracle, embossed in steel to a depth of .014" to .017".

- G-90 galvanized indicates that a coating of .90 ounces of zinc per square foot has been applied on each surface side.

- A-60 Galvannealed indicates that a coating of .60 ounces of zinc per square foot alloyed with substrate steel has been applied on each surface side.

- Mira-Cote (TM) is a Super Durable formulation of a polyester powder coating finish that is applied to a thickness of 3-5 mil. This finish gives metal parts long term protection from chipping, fading and peeling. Miracle's finishing system washes the metal parts with detergent and etches the metal for optimum adhesion. The part is then rinsed clean with water. Next the part is coated with a non-chromic sealer and dried. The Mira-Cote powder is then applied electrostatically to the metal part. The metal parts are then baked at a high temperature to fuse a hard, smooth durable finish to the metal. Mira-Cote has an impact value of 160 in. lbs., flexibility value of 180 degree-1/4" mandrel, shore hardness value H and a crosshatch adhesion of 100%. Mira-Cote is tested in accordance with ASTM D-792, D-523, D-2794, D-1737, D-3363, D-3359 (b), B117 and D-2247. Mira-Cote will withstand over a 1,500 hours of salt spray exposure and 1,500 hours of weatherometer testing with minimal loss of gloss and color.

- 1" pipe is GATOR GRIP embossed 14 ga., 1" pipe sized tube (1.315" OD; approx. 1-5/16" OD.)

- 1-1/4" pipe is 13 ga., 1-1/4" pipe sized tube (1.660" OD; approx. 1-11/16" OD.)

- 1-1/4" pipe, 10 ga. is 10 ga., 1-1/4" pipe sized tube (1.660" OD; approx. 1-11/16" OD.)

- 1-1/2" pipe is 13 ga., 1-1/2" pipe sized tube (1.900" OD; approx. 1-7/8" OD.)

- 2" pipe is 12 ga., 2" pipe sized tube (2.375" OD; approx. 2-3/8" OD.)

- 1-1/2" heavy pipe is 10 ga., 1-1/2" pipe sized tube (1.900" OD; approx. 1-7/8" OD.)

- 2-1/2" Sch 40 pipe is 2-1/2" schedule 40 galvanized pipe (2.875" OD; approx. 2-7/8" OD.)

- 5" Sch 40 pipe is 5" schedule 40 galvanized pipe (5.563" OD; approx. 5-9/16" OD.)

- plastic pipe plugs are injection molded polypropylene containing U.V. light stabilizers.

- Rockite (R) (Rotational Molded Polyethylene) is a low-density polyethylene produced from high performance, U.V. stabilized rotational molding grade resins with a comprehensive additive package. These resins are tested in accordance with ASTM testing procedures D-1505, D-1248, D-1693(b), D- 638, D-790 and D-746. Reshi's properties exhibit a balance of toughness, rigidity, environmental stress crack resistance and excellent low temperature impact performance. Wall thickness of molded components is 3/16" to 1/4".

- round tube is fabricated of 1010 hot rolled, Flo-Coat, galvanized tube manufactured from steel, cold formed and high frequency induction welded continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.

- square tube is fabricated of 1010 hot rolled, Flo-Coat, galvanized tube manufactured from steel, cold formed and high frequency induction welded continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.

- 5" aluminum tube is a 5" O.D. (.125 wall) aluminum post that receives a five-stage oxidation wash prior to painting. This 6005-T5 alloy and temper extruded aluminum tube conforms to ASTM-B-221 and QQ-A-200/8 with yield strength of 35,000 p.s.i. and tensile strength of 38,000 p.s.i.

- 3/4" x 1" oval tube is 15 ga. wall. It is fabricated of 1008 hot rolled, Flo-Coat, galvanized tube manufactured from steel, cold formed and high frequency induction welded continuously. It conforms to ASTM A-135 and ASTM A-500 and is tested in accordance with ASTM E-8. The minimum mechanical properties of the tube are yield strength of 50,000 p.s.i. and tensile strength of 55,000 p.s.i.

- 4" square tube is 13 ga., 4" square tube.

- 1" tube is 1" OD, 15 ga. fluted round tube. It conforms to ASTM A-500.

- 5" tube is 5" OD, 13 ga. round tube. It conforms to ASTM A-500.

- 5" tube, 11 ga. is 5" OD, 11 ga. round tube. It conforms to ASTM A-500.

- welded refers to welds that are made by certified welders, tested in accordance with AWS D1.1-94, structural welding code specifications for steel. Welds

conform to AWS A5.17 ASME SFA-5.17 EML3K and AWS A-5.18ER70S-3 ASME SFA-5.18 ER70s-3 LE332- C and LE-559-L.

- Specification Policy: Specifications were current at the time of publication. Miracle Recreation Equipment Company has a policy of ongoing product improvement and therefore reserves the right to modify specifications or discontinue products without notice.

SUMMER PROJECT 2018
Waterbury BOE Maintenance Dept.

#16

HVAC Dept.

- Wilby High School-Replace heating coils in C-11
- Wilby- Repair Heating Coils in C-6
- Rotella- Replace chiller pumps and VFDs.
- Waterbury Arts Magnet School- Chiller repairs
- Carrington- Chiller repairs
- Preventive maintenance on all air handlers and exhaust fans throughout the whole district
- Changing air filters at all schools

Plumbing Dept.

- Changing leaky sinks, toilets and faucets in various schools
- Hopeville- Replacing water bubblers
- Testing sprinkler system in all schools in coordination with the Fire Department
- Check backflows in all school in coordination with the Water Department
- Overseeing the installation of the new pool filtration system at Crosby, Wilby and West Side
- Kennedy- Install sump pump in the poolroom.

Electrical Dept.

- Testing fire alarm and emergency lighting system at all schools in coordination with the Fire Marshals
- Adult Ed- Install outlets for computer lab
- Crosby- Install fire alarm speaker/strobe in the Wii room
- Crosby- refeed three pole lights in the student parking lot
- Tinker- Install new lighting in two classrooms
- Wilson- install a fire alarm speaker/strobe in room 215
- Wilby- Install new basketball hoop switches
- Hopeville- Install new lights in two classrooms
- Install electrical outlets and network drops throughout the district

Painting Dept.

- Bunker Hill- 10 Classrooms (S103, S105, T105, T107, T108, T104, T103, T101, T109, B104)
- Washington- Cafeteria, Basement storage areas (walls & floors), Re-stencil game outlines in playground pavement area

- Hopeville- lower level stairwell leading to the library, room F110, F113, F114 & S106
- Sprague- Paint counters/cubbies/drawers in 22 classrooms (F101, 102, 104, 106, 103, 107, 109, 113, 115, & 114, S117, 114, 109, 104, 108, 105, 101, 116, 119, 118 & 106)
- Bucks Hill- Paint yellow lines on the VCT floors to assist sight challenged wheelchair student
- Re-paint parking lot lines and fire lane curbing at the following schools: Sprague, State Street, Career Academy, Laurel Hill Complex, Wendell Cross, Gilmartin, Wilson, Carrington, Bergin Complex, Regan & Duggan

Mason Dept.

- Kingsbury- Brick repointing- Outside contractor.
- Wilson- Brick replacement and repointing- Outside contractor.
- Carrington- Replacing dumpster fence.
- Rotella- floor replacement- Outside contractor.
- Walsh- repair floor tiles in classrooms.
- Chase- repair floor tiles in classrooms.
- Wilson- repair concrete stairs.

Carpentry Dept.

- Replace bathroom partitions and associated hardware at Bucks Hill, Bunker Hill, Washington and Walsh
- Wilson- Inspect and repair all bathrooms in the main office and in the portables.
- Playground replacement at chase, Generali and Walsh- Outside contractor.
- Bunker Hill- build wall in room S1112.
- Bucks Hill- build cubbies and coat hanger system for CBL.
- Bucks Hill- replace sections of floor tiles in room F125 and F139.
- Hopeville- Drop ceiling in room B100 and B 102
- Washington- Assemble and secure new shelving for the library.
- Take down walls in room 207 and B102.

General Labor Department

- Enlightenment School/State Street School - furniture, desks etc. transfer.
- Rotella - move classrooms from Rotella to Crosby for summer school.
- move desks, chairs and furniture to storage trailers.
- Crosby- move classrooms back to Rotella at the end of the summer.

#17

COMMITTEE ON SCHOOL FACILITIES & GROUNDS

WORKSHOP: Thursday, June 7, 2018 (Kingsbury)
BOARD MEETING: Thursday, June 28, 2018

TO THE BOARD OF EDUCATION
WATERBURY, CONNECTICUT

LADIES AND GENTLEMEN:

With the approval of the Committee on School Facilities and Grounds, the Superintendent of Schools recommend approval of the use of school facilities, at no charge, by the following school organizations and/or City departments:

GROUP	FACILITIES AND DATES/TIMES
J. Reed	Rotella comm. rm.: June 5th & 6th 7:30am-3:00pm (STEM training)
Blue Collar Union Ray Melendez, Pres.	Kennedy aud.: Sunday, June 10th 9am-11am (union meeting)
D. Mortenson	Rotella comm. rm.: Fri.,Aug. 24th 8:00-11:00 am (Pre-K training)
H. Gillis	WAMS classrms., studios, stage, recital hall, lobby: July 7th – 13th 7am-1pm (Encore-summer arts program)
D. Foster	Enlightenment café: Monday, June 11th 4:30-6:30 pm (Family Engagement function)
Park Dept. Ed McCann	Kennedy pool: July 2nd to Aug. 10th 8:30am – 12:00pm (swim program) *(time change)
L. Thomas	Career Academy café: Thurs.,June 14th 2:00-4:00pm (awards/senior celebration)
M. Neitha	Wilby café: Tues., June 12th 2:00-4:00 pm (end of year celebration for Upward bound students)
A Misset	Driggs gym/café: Thurs.,June 7th 5-7 pm (Family Fitness Night)
N. Albini	WAMS mirrored lobby: Wed.,June 20th 4:00 – 7:30 pm (Career Academy to organize & line up for graduation at Palace)

Approved:

John Theriault

Robert Henry
Deputy Superintendent of Schools

MAY 21 2018

SCHOOL PERSONNEL USE ONLY

DATE: 5-21-18

TO: SCHOOL BUSINESS OFFICE

FROM: John Reed

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: Rotella Community Room

☐ Auditorium ☐ Gymnasium ☐ Swimming Pool ☐ Café/Rooms

DATES REQUESTED: 6/5/18 and 6/6/18

FROM: 7:30 (am/pm) TO: 3:00 (am/pm)

FOR THE FOLLOWING PURPOSES:

STEM Coach training with Houghton Mifflin program

J. R. Reed
APPLICANT

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

Book

MAY 16 2018

SCHOOL PERSONNEL USE ONLY

DATE: 5-16-18

TO: SCHOOL BUSINESS OFFICE

FROM: Ray Melendez
Blue Collar Union

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: Kennedy

☑ Auditorium ☐ Gymnasium ☐ Swimming Pool ☐ Café/Rooms

DATES REQUESTED: Sunday, June 10, 2018

FROM: 9:00 am/pm TO: 11:00 am/pm

FOR THE FOLLOWING PURPOSES:

Blue Collar Union Meeting

R. Melendez
APPLICANT

Sm.

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

MAY 10 2018

SCHOOL PERSONNEL USE ONLY

DATE: 5/10/18

TO: SCHOOL BUSINESS OFFICE

FROM: Dena Mortensen / Joanne Migliarese

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: Rotella

☐ Auditorium ☐ Gymnasium ☐ Swimming Pool ☑ Café/Rooms Community Room

DATES REQUESTED: 8/24/18

FROM: 8 am/pm TO: 11 am/pm

FOR THE FOLLOWING PURPOSES:

Pre K Training

DM / Joanne

APPLICANT Migliarese

5/10/18

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

MAY 17 2018

SCHOOL PERSONNEL USE ONLY

DATE: May 17, 2018

TO: SCHOOL BUSINESS OFFICE

FROM: WAMS- Holly Gillis Coordinator WAMS ENCORE! Summer Arts Program

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: Waterbury Arts Magnet School

☑ Auditorium ☐ Gymnasium ☐ Swimming Pool ☑ Café/Rooms

DATES REQUESTED: July 2nd - 13th 2018

FROM: 7 am/pm TO: 1 am/pm

FOR THE FOLLOWING PURPOSES:

WAMS Encore! Summer Arts Program - Rooms include Apron Stage, Prop Shop, Costume, Music Office, Choral Room, Drama Class RM, Video, Recital Hall, SU DANCE + Large Dance Studios, Mirrored Lobby, Art Rooms 103+104.

Holly M Gillis
APPLICANT

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

MAY 2 4 2018

SCHOOL PERSONNEL USE ONLY

DATE: May 24, 2018

TO: SCHOOL BUSINESS OFFICE

FROM: Denise Foster

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: Enlightenment

☐ Auditorium ☐ Gymnasium ☐ Swimming Pool

☐X Café/Rooms

DATES REQUESTED: June 11, 2018

FROM: 4:30 pm TO: 6:30 pm

FOR THE FOLLOWING PURPOSES:

Family Engagement function.

_____

_____

_____
APPLICANT

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

Ryot

SCHOOL PERSONNEL USE ONLY

MAY 29 2018

DATE: 5-29-18

TO: SCHOOL BUSINESS OFFICE

FROM: Park Dept

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: Kennedy

☐ Auditorium ☐ Gymnasium ☒ Swimming Pool ☐ Café/Rooms

DATES REQUESTED: July 2 - Aug 10

FROM: 8:30 AM am/pm TO: 12:00 am/pm

FOR THE FOLLOWING PURPOSES:

Swim Program

Time Change

EM

APPLICANT

Sm

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

MAY 31 2018

SCHOOL PERSONNEL USE ONLY

DATE: 5/31/2018

TO: SCHOOL BUSINESS OFFICE

FROM: Laura L. Thomas

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: WCA

☐ Auditorium ☐ Gymnasium ☐ Swimming Pool ☒ Café/Rooms

DATES REQUESTED: 6/14/2018

FROM: 2 am/pm TO: 4 am/pm

FOR THE FOLLOWING PURPOSES:

WCA Track + Field
Awards / Senior Celebration

Laura L. Thomas
APPLICANT

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

JUN - 1 2018

SCHOOL PERSONNEL USE ONLY

DATE: 5/31/18

TO: SCHOOL BUSINESS OFFICE

FROM: Upward Bound - Michael Neita

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: Willby

☐ Auditorium ☐ Gymnasium ☐ Swimming Pool ☒ Café/Rooms

DATES REQUESTED: June 12

FROM: 2 am/pm TO: 4 am/pm

FOR THE FOLLOWING PURPOSES:

End of the year Celebration for the Upward Bound Students

Charlene Harris
APPLICANT

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

SCHOOL PERSONNEL USE ONLY

JUN - 1 2018

DATE: 5/31/18

TO: SCHOOL BUSINESS OFFICE

FROM: Aimee Misset / SVP

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: Driggs

☐ Auditorium ☑ Gymnasium ☐ Swimming Pool ☑ Cafe/Rooms

DATES REQUESTED: 6/7

FROM: 5 am/pm TO: 7 am/pm

FOR THE FOLLOWING PURPOSES:

Family Fitness Night

APPLICANT

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

JUN - 5 2018

SCHOOL PERSONNEL USE ONLY

DATE: 6/5/2018

TO: SCHOOL BUSINESS OFFICE

FROM: NICHOLAS ALBINI
WATERBURY CAREER ACADEMY

The undersigned hereby makes application for use of school facilities (after regular school hours) as follows:

NAME OF SCHOOL REQUESTED: WATERBURY ARTS MAGNET SCHOOL
MIRRORED LOBBY

☐ Auditorium ☐ Gymnasium ☐ Swimming Pool ☐ Café/Rooms

DATES REQUESTED: JUNE 20, 2018

FROM: 4 am/pm TO: 7:30 am/pm

PLUS 10 - 6' TABLES FOR DIPLOMAS

FOR THE FOLLOWING PURPOSES:
HIGH SCHOOL GRADUATION

Nicholas John Albini
APPLICANT

Please note the following provisions:
When the public is invited to an activity, police and fire departments must be notified. These arrangements *must* be made in person at the police and fire headquarters.

#18

COMMITTEE ON SCHOOL FACILITIES & GROUNDS

WORKSHOP: Thursday, June 7, 2018 (Kingsbury)
BOARD MEETING: Thursday, June 28, 2018

TO THE BOARD OF EDUCATION
WATERBURY, CONNECTICUT

LADIES AND GENTLEMEN:

With the approval of the Committee on School Facilities and Grounds, the Superintendent of Schools recommends approval of the use of school facilities by groups and organizations, subject to fees and insurance as required.

GROUP	FACILITIES AND DATES/TIMES

REQUESTING WAIVERS:

GROUPS NOT SUBJECT TO FEES OR WAIVER DUE TO TIME OF USE OR PREVIOUS WAIVER:

Hoops 4 Life D. Fryer	West Side gym: 6/10 – 9/17 (38 dates) 4:30-9:00 pm Career Academy gym: 6/7 – 8/16 5:00-9:00 pm (basketball program)
P.A.L. Ofc.Chris Amatruda	Kennedy pool: July 9th to Aug. 2nd 1:00pm – 8:00pm (learn to swim program)
Porter's House Sara Wrenn	Hopeville gym: July 9th – Aug. 15th Mon. & Wed. 8am-4pm (summer youth program)
Town Plot Neighborhood Assoc. Art Denze	Kennedy café: Tues.,June 26th 6:30-9:15 pm (meeting of the neighborhood group)

MONIES COLLECTED TO DATE: $ 59,372.00

Approved:

John Theriault

Robert Henry
Deputy Superintendent of Schools

These activities are completed and have been billed:

Porter & Chester
Ring of Honor Boxing
Save Girls on Fyer

DEPARTMENT OF EDUCATION - WATERBURY, CONNECTICUT
SCHOOL BUSINESS OFFICE
236 GRAND ST., WATERBURY, CT 06702
USE OF BUILDING PERMIT
TYPE OR USE PEN AND PRESS FIRMLY

CONTRACT# APR 1 5 2010

APPLICANT DENEEN FRYER NAME OF ORGANIZATION HOOPS4Life, Inc

ADDRESS 232 N. ELM Street 06702 TELEPHONE # (203) 232-4578
(street) (city) (state) (zip code)

SCHOOL REQUESTED Walsh DATES See Attached ROOM(S) Gym

OPENING TIME 4:30 CLOSING TIME 9:00pm PURPOSE basketball Leage

ADMISSION (if any) N/A CHARGE TO BE DEVOTED TO N/A

APPROXIMATE NUMBER OF PEOPLE TO BE PRESENT: ADULTS 30 CHILDREN 30

SIGNATURE OFAPPLICANT [signature] DATE 4/16/10

PERSON(S) NAME, ADDRESS & PHONE NUMBER RESPONSIBLE FOR SUPERVISION:
Deneen Fryer 31 Lancaster Dr (203) 232-4578 | Darryl Parker Ridge St (203) 525-6673

In the event that the Board of Education should need to resort to legal proceedings to collect any outstanding balances, the lessee is responsible for any and all attorney's fees, sheriff's fees and court costs associated with said proceedings DF (PLEASE INITIAL)

SCHEDULE OF RATES: CUSTODIAL FEES:

RENTAL FEES:

MISCELLANEOUS FEES:

SECURITY DEPOSIT $ INSURANCE COVERAGE YES NO

PLEASE READ THE FOLLOWING CAREFULLY

APPLICATION MUST BE RECEIVED AT LEAST THREE (3) WEEKS PRIOR TO THE ACTIVITY.

A COPY OF YOUR INSURANCE MUST ACCOMPANY YOUR APPLICATION (IF APPLICABLE)

IF SCHOOL IS CANCELLED FOR SNOW OR ANY OTHER REASON - ALL ACTIVITIES ARE CANCELLED ALSO.

THERE WILL BE NO ACTIVITIES DURING SCHOOL OPEN HOUSE.

CANCELLATIONS MUST BE MADE AT LEAST 48 HOURS IN ADVANCE OR YOU WILL BE CHARGED.

POLICE AND FIRE PROTECTION MUST BE ARRANGED AND/OR CANCELLED BY THE RENTER. PLEASE CALL EACH DEPARTMENT FOR INFORMATION. POLICE DEPT. 574-6963 FIRE DEPT. 597-3452

CALL THE SCHOOL CUSTODIAN AT LEAST ONE WEEK PRIOR TO YOUR ACTIVITY FOR ANY ARRANGEMENTS RE: PA SYSTEM, LIGHTING, ETC. (FOR WHICH THERE WILL BE AN EXTRA CHARGE).

KITCHEN FACILITIES CAN NOT BE USED BY GROUPS WITHOUT SUPERVISION - PLEASE CALL THE FOOD SERVICE DEPT. AT 574-8210 TO ARRANGE FOR A FOOD SERVICE PERSON (FOR WHICH THERE WILL BE AN EXTRA CHARGE)

PLEASE SEE REVERSE FOR ADDITIONAL RULES AND REGULATIONS.

IT IS AGREED THAT REGULATIONS ADOPTED BY THE BOARD OF EDUCATION FOR USE OF SCHOOL BUILDINGS WILL BE RIGIDLY ENFORCED.

APPROVAL DATE

SCHOOL BUSINESS OFFICE

CHECKS OR MONEY ORDERS FOR FEES SHOULD BE MADE OUT TO THE BOARD OF EDUCATION AND MAILED TO THE SCHOOL BUSINESS OFFICE. NO CASH WILL BE ACCEPTED.

White-Permittee Goldenrod-School Business Office Pink-Principal Blue-Custodian

USE OF SCHOOL FACILITIES WAIVER REQUEST

(to be submitted with the Building Permit)

APPLICANT/ORGANIZATION: Hoopsylife, Inc.

Please check below specific item(s):

Building Usage Fees ☐ Custodial Fees ☐

SCHOOL/ROOMS REQUESTED: Gym (West Side Middle

DATE(S): 6/10 6/11 6/12 6/13	TIMES: 7:30p - 9:30p
DATE(S): 7/9 7/10 7/11 7/12 7/13	TIMES: " " "
DATE(S): 7/16 7/17 7/18 7/19 7/20	TIMES: " " "
DATE(S): 7/23 7/24 7/25 7/26 7/30	TIMES: " " "
DATE(S): 7/31 8/1 8/2 8/6 8/7 8/8	TIMES: " " "
DATE(S): 8/9 8/10 8/13 8/14 8/15 8/16	TIMES: " " "
9/4 9/5 9/10 9/12 9/13 9/17 9/19	

4/16/18
Date

Signature

OFFICE USE ONLY

List total cost of fees being requested to be waived:

$	$	$
Building Usage Fees	Custodial Fees	Security Deposit

BOARD USE ONLY

The Board of Education approved/denied the above referenced waiver request(s) at their regular meeting of _____.

ATTEST: _____
Clerk, Board of Education

DEPARTMENT OF EDUCATION - WATERBURY, CONNECTICUT
SCHOOL BUSINESS OFFICE
236 GRAND ST., WATERBURY, CT 06702
USE OF BUILDING PERMIT
TYPE OR USE PEN AND PRESS FIRMLY

CONTRACT#

APPLICANT DENEEN FRYER NAME OF ORGANIZATION Hoops4Life, Inc

ADDRESS 232 N. ELM Street Garage 06702 TELEPHONE # (203) 232-4578
(street) (city) (state) (zip code)

SCHOOL REQUESTED DATES See Attached ROOM(S) Gym

OPENING TIME 5:00 pm CLOSING TIME 9:30 pm PURPOSE basketball league

ADMISSION (if any) N/A CHARGE TO BE DEVOTED TO N/A

APPROXIMATE NUMBER OF PEOPLE TO BE PRESENT: ADULTS 30 CHILDREN 30

SIGNATURE OFAPPLICANT [signature] DATE 4/16/18

PERSON(S) NAME, ADDRESS & PHONE NUMBER RESPONSIBLE FOR SUPERVISION:
Deneen Fryer 51 Lexington Dr (203) 232-4578 / Darryl Parker Ridge St (203) 525-6073

In the event that the Board of Education should need to resort to legal proceedings to collect any outstanding balances, the lessee is responsible for any and all attorney's fees, sheriff's fees and court costs associated with said proceedings DF (PLEASE INITIAL)

SCHEDULE OF RATES: CUSTODIAL FEES: _____

RENTAL FEES: _____

MISCELLANEOUS FEES: _____

SECURITY DEPOSIT $ _____ INSURANCE COVERAGE _____ YES _____ NO

PLEASE READ THE FOLLOWING CAREFULLY

APPLICATION MUST BE RECEIVED AT LEAST THREE (3) WEEKS PRIOR TO THE ACTIVITY.

A COPY OF YOUR INSURANCE MUST ACCOMPANY YOUR APPLICATION (IF APPLICABLE)

IF SCHOOL IS CANCELLED FOR SNOW OR ANY OTHER REASON - ALL ACTIVITIES ARE CANCELLED ALSO.

THERE WILL BE NO ACTIVITIES DURING SCHOOL OPEN HOUSE.

CANCELLATIONS MUST BE MADE AT LEAST 48 HOURS IN ADVANCE OR YOU WILL BE CHARGED.

POLICE AND FIRE PROTECTION MUST BE ARRANGED AND/OR CANCELLED BY THE RENTER. PLEASE CALL EACH DEPARTMENT FOR INFORMATION. POLICE DEPT. 574-6963 FIRE DEPT. 597-3452

CALL THE SCHOOL CUSTODIAN AT LEAST ONE WEEK PRIOR TO YOUR ACTIVITY FOR ANY ARRANGEMENTS RE: PA SYSTEM, LIGHTING, ETC. (FOR WHICH THERE WILL BE AN EXTRA CHARGE).

KITCHEN FACILITIES CAN NOT BE USED BY GROUPS WITHOUT SUPERVISION - PLEASE CALL THE FOOD SERVICE DEPT. AT 574-8210 TO ARRANGE FOR A FOOD SERVICE PERSON (FOR WHICH THERE WILL BE AN EXTRA CHARGE)

PLEASE SEE REVERSE FOR ADDITIONAL RULES AND REGULATIONS.

IT IS AGREED THAT REGULATIONS ADOPTED BY THE BOARD OF EDUCATION FOR USE OF SCHOOL BUILDINGS WILL BE RIGIDLY ENFORCED.

APPROVAL DATE _____ _____
SCHOOL BUSINESS OFFICE

CHECKS OR MONEY ORDERS FOR FEES SHOULD BE MADE OUT TO THE BOARD OF EDUCATION AND MAILED TO THE SCHOOL BUSINESS OFFICE. NO CASH WILL BE ACCEPTED.

White-Permittee Goldenrod-School Business Office Pink-Principal Blue-Custodian

USE OF SCHOOL FACILITIES
WAIVER REQUEST
(to be submitted with Use of Building Permit)

APPLICANT/ORGANIZATION: Hoopsalife, Inc

Please check below specific item(s):

Building Usage Fees ☐ Custodial Fees ☐

SCHOOL/ROOMS REQUESTED: Gym - Career Academy

DATE(S): 6/7 6/8 6/11 6/12 6/13 6/14 TIMES: 4:30p - 9:00p

DATE(S): 7/9 7/10 7/11 7/12 7/13 7/16 TIMES: " "

DATE(S): 7/17 7/18 7/19 7/23 7/24 TIMES: " "

DATE(S): 7/25 7/26 7/30 7/31 8/1 TIMES: " "

DATE(S): 8/2 8/6 8/7 8/8 8/9 8/13 TIMES: " "

DATE(S): 8/14 8/15 8/16 9/4 9/5 TIMES: " "
9/10 9/11 9/12 9/13 9/17 9/18

4/16/18
Date

Signature

OFFICE USE ONLY

List total cost of fees being requested to be waived:

$ _____ Building Usage Fees

$ _____ Custodial Fees

$ _____ Security Deposit

BOARD USE ONLY

The Board of Education approved/denied the above referenced waiver request(s) at their regular meeting of _____.

ATTEST: _____
Clerk, Board of Education

Book

DEPARTMENT OF EDUCATION - WATERBURY, CONNECTICUT
SCHOOL BUSINESS OFFICE
236 GRAND ST., WATERBURY, CT 06702
USE OF BUILDING PERMIT
TYPE OR USE PEN AND PRESS FIRMLY

MAY 29 2018

CONTRACT#

APPLICANT Chris Amatrudo NAME OF ORGANIZATION PAL

ADDRESS 64 Division St Waterbury CT 06704 TELEPHONE # 203-746-3921
(street) (city) (state) (zip code)

SCHOOL REQUESTED Kennedy DATES 7/9 - 8/2 ROOM(S) Pool

OPENING TIME 1:00 pm CLOSING TIME 8:00 pm PURPOSE Swim Program

ADMISSION (if any) CHARGE TO BE DEVOTED TO

APPROXIMATE NUMBER OF PEOPLE TO BE PRESENT: ADULTS CHILDREN

SIGNATURE OF APPLICANT [signature] DATE 5-29-18

PERSON(S) NAME, ADDRESS & PHONE NUMBER RESPONSIBLE FOR SUPERVISION:
(SAME)

In the event that the Board of Education should need to resort to legal proceedings to collect any outstanding balances, the lessee is responsible for any and all attorney's fees, sheriff's fees and court costs associated with said proceedings. CA (PLEASE INITIAL)

SCHEDULE OF RATES: CUSTODIAL FEES:

RENTAL FEES:

MISCELLANEOUS FEES:

SECURITY DEPOSIT $ INSURANCE COVERAGE ✓ YES NO

PLEASE READ THE FOLLOWING CAREFULLY

APPLICATION MUST BE RECEIVED AT LEAST THREE (3) WEEKS PRIOR TO THE ACTIVITY.

A COPY OF YOUR INSURANCE MUST ACCOMPANY YOUR APPLICATION (IF APPLICABLE)

IF SCHOOL IS CANCELLED FOR SNOW OR ANY OTHER REASON - ALL ACTIVITIES ARE CANCELLED ALSO.

THERE WILL BE NO ACTIVITIES DURING SCHOOL OPEN HOUSE.

CANCELLATIONS MUST BE MADE AT LEAST 48 HOURS IN ADVANCE OR YOU WILL BE CHARGED.

POLICE AND FIRE PROTECTION MUST BE ARRANGED AND/OR CANCELLED BY THE RENTER. PLEASE CALL EACH DEPARTMENT FOR INFORMATION. POLICE DEPT. 574-6963 FIRE DEPT. 597-3452

CALL THE SCHOOL CUSTODIAN AT LEAST ONE WEEK PRIOR TO YOUR ACTIVITY FOR ANY ARRANGEMENTS RE: PA SYSTEM, LIGHTING, ETC. (FOR WHICH THERE WILL BE AN EXTRA CHARGE).

KITCHEN FACILITIES CAN NOT BE USED BY GROUPS WITHOUT SUPERVISION - PLEASE CALL THE FOOD SERVICE DEPT. AT 574-8210 TO ARRANGE FOR A FOOD SERVICE PERSON (FOR WHICH THERE WILL BE AN EXTRA CHARGE)

PLEASE SEE REVERSE FOR ADDITIONAL RULES AND REGULATIONS.

IT IS AGREED THAT REGULATIONS ADOPTED BY THE BOARD OF EDUCATION FOR USE OF SCHOOL BUILDINGS WILL BE RIGIDLY ENFORCED.

Monday Thru Thursday July 9th To Aug. 2nd

APPROVAL DATE

SCHOOL BUSINESS OFFICE

CHECKS OR MONEY ORDERS FOR FEES SHOULD BE MADE OUT TO THE BOARD OF EDUCATION AND MAILED TO THE SCHOOL BUSINESS OFFICE. NO CASH WILL BE ACCEPTED.

White-Permittee Goldenrod-School Business Office Pink-Principal Blue-Custodian

DEPARTMENT OF EDUCATION - WATERBURY, CONNECTICUT
SCHOOL BUSINESS OFFICE
236 GRAND ST., WATERBURY, CT 06702
USE OF BUILDING PERMIT
TYPE OR USE PEN AND PRESS FIRMLY

CONTRACT# MAY 16 2018

APPLICANT Sara Wrenn NAME OF ORGANIZATION Porter's House

ADDRESS 159 Edgewood Ave (street) CT (state) 06706 (zip code) TELEPHONE # 203-589-2865
(city)

SCHOOL REQUESTED Hopeville Elementary School DATES 7/2018 - 8/2018 ROOM(S) Gym

OPENING TIME 8 am CLOSING TIME 4 pm PURPOSE Summer program for youth

ADMISSION (if any) $7.00 per kid CHARGE TO BE DEVOTED TO Supplies

APPROXIMATE NUMBER OF PEOPLE TO BE PRESENT: ADULTS 4 CHILDREN 20

SIGNATURE OFAPPLICANT Sara Wrenn DATE 5/16/18

PERSON(S) NAME, ADDRESS & PHONE NUMBER RESPONSIBLE FOR SUPERVISION:
Cheryl Porter 203-589-2865

In the event that the Board of Education should need to resort to legal proceedings to collect any outstanding balances, the lessee is responsible for any and all attorney's fees, sheriff's fees and court costs associated with said proceedings. SW (PLEASE INITIAL)

SCHEDULE OF RATES: CUSTODIAL FEES:

RENTAL FEES:

MISCELLANEOUS FEES:

SECURITY DEPOSIT $ 250 INSURANCE COVERAGE YES NO

PLEASE READ THE FOLLOWING CAREFULLY

APPLICATION MUST BE RECEIVED AT LEAST THREE (3) WEEKS PRIOR TO THE ACTIVITY.

A COPY OF YOUR INSURANCE MUST ACCOMPANY YOUR APPLICATION (IF APPLICABLE)

IF SCHOOL IS CANCELLED FOR SNOW OR ANY OTHER REASON - ALL ACTIVITIES ARE CANCELLED ALSO.

THERE WILL BE NO ACTIVITIES DURING SCHOOL OPEN HOUSE.

CANCELLATIONS MUST BE MADE AT LEAST 48 HOURS IN ADVANCE OR YOU WILL BE CHARGED.

POLICE AND FIRE PROTECTION MUST BE ARRANGED AND/OR CANCELLED BY THE RENTER. PLEASE CALL EACH DEPARTMENT FOR INFORMATION. POLICE DEPT. 574-6963 FIRE DEPT. 597-3452

CALL THE SCHOOL CUSTODIAN AT LEAST ONE WEEK PRIOR TO YOUR ACTIVITY FOR ANY ARRANGEMENTS RE: PA SYSTEM, LIGHTING, ETC. (FOR WHICH THERE WILL BE AN EXTRA CHARGE).

KITCHEN FACILITIES CAN NOT BE USED BY GROUPS WITHOUT SUPERVISION - PLEASE CALL THE FOOD SERVICE DEPT. AT 574-8210 TO ARRANGE FOR A FOOD SERVICE PERSON (FOR WHICH THERE WILL BE AN EXTRA CHARGE)

PLEASE SEE REVERSE FOR ADDITIONAL RULES AND REGULATIONS.

IT IS AGREED THAT REGULATIONS ADOPTED BY THE BOARD OF EDUCATION FOR USE OF SCHOOL BUILDINGS WILL BE RIGIDLY ENFORCED.

July 9
Aug 15
Mon
-
Wed.

APPROVAL DATE

SCHOOL BUSINESS OFFICE

CHECKS OR MONEY ORDERS FOR FEES SHOULD BE MADE OUT TO THE BOARD OF EDUCATION AND MAILED TO THE SCHOOL BUSINESS OFFICE. NO CASH WILL BE ACCEPTED.

White-Permittee Goldenrod-School Business Office Pink-Principal Blue-Custodian

DEPARTMENT OF EDUCATION - WATERBURY, CONNECTICUT
SCHOOL BUSINESS OFFICE
236 GRAND ST., WATERBURY, CT 06702
USE OF BUILDING PERMIT
TYPE OR USE PEN AND PRESS FIRMLY

CONTRACT# TOWN PLOT

JUN - 5 2018

APPLICANT ARTHUR J. DENZE, SR. NAME OF ORGANIZATION NEIGHBORHOOD ASSOC.

ADDRESS 56 PHYLLIS AVE WTBY CT 06708 TELEPHONE # 203-755-5761
(street) (city) (state) (zip code)

SCHOOL REQUESTED KENNEDY H.S. DATES JUNE 26, 2018 ROOM(S) CAFETERIA

OPENING TIME 6:30 P.M. CLOSING TIME 9:15 P.M. PURPOSE MEMBER MEETING

ADMISSION (if any) NO CHARGE TO BE DEVOTED TO

APPROXIMATE NUMBER OF PEOPLE TO BE PRESENT: ADULTS 35-50 CHILDREN NO

SIGNATURE OF APPLICANT Arthur J. Denze Sr. PRES. DATE 6-5-2018

PERSON(S) NAME, ADDRESS & PHONE NUMBER RESPONSIBLE FOR SUPERVISION:

SAME AS ABOVE

In the event that the Board of Education should need to resort to legal proceedings to collect any outstanding balances, the lessee is responsible for any and all attorney's fees, sheriff's fees and court costs associated with said proceedings. _____ (PLEASE INITIAL)

SCHEDULE OF RATES: CUSTODIAL FEES: _____

RENTAL FEES: _____

MISCELLANEOUS FEES: _____

SECURITY DEPOSIT $ _____ INSURANCE COVERAGE _____ YES _____ NO

PLEASE READ THE FOLLOWING CAREFULLY

APPLICATION MUST BE RECEIVED AT LEAST THREE (3) WEEKS PRIOR TO THE ACTIVITY.

A COPY OF YOUR INSURANCE MUST ACCOMPANY YOUR APPLICATION (IF APPLICABLE)

IF SCHOOL IS CANCELLED FOR SNOW OR ANY OTHER REASON - ALL ACTIVITIES ARE CANCELLED ALSO.

THERE WILL BE NO ACTIVITIES DURING SCHOOL OPEN HOUSE.

CANCELLATIONS MUST BE MADE AT LEAST 48 HOURS IN ADVANCE OR YOU WILL BE CHARGED.

POLICE AND FIRE PROTECTION MUST BE ARRANGED AND/OR CANCELLED BY THE RENTER. PLEASE CALL EACH DEPARTMENT FOR INFORMATION. POLICE DEPT. 574-6963 FIRE DEPT. 567-3462

CALL THE SCHOOL CUSTODIAN AT LEAST ONE WEEK PRIOR TO YOUR ACTIVITY FOR ANY ARRANGEMENTS RE: PA SYSTEM, LIGHTING, ETC. (FOR WHICH THERE WILL BE AN EXTRA CHARGE).

KITCHEN FACILITIES CAN NOT BE USED BY GROUPS WITHOUT SUPERVISION - PLEASE CALL THE FOOD SERVICE DEPT. AT 574-8210 TO ARRANGE FOR A FOOD SERVICE PERSON (FOR WHICH THERE WILL BE AN EXTRA CHARGE)

PLEASE SEE REVERSE FOR ADDITIONAL RULES AND REGULATIONS.

IT IS AGREED THAT REGULATIONS ADOPTED BY THE BOARD OF EDUCATION FOR USE OF SCHOOL BUILDINGS WILL BE RIGIDLY ENFORCED.

APPROVAL DATE _____ _____
SCHOOL BUSINESS OFFICE

CHECKS OR MONEY ORDERS FOR FEES SHOULD BE MADE OUT TO THE BOARD OF EDUCATION AND MAILED TO THE SCHOOL BUSINESS OFFICE. NO CASH WILL BE ACCEPTED.

White-Permittee Goldenrod-School Business Office Pink-Principal Blue-Custodian