



Town of Simsbury

100 OLD FARMS ROAD

WEST SIMSBURY, CONNECTICUT 06092

Culture, Parks, and Recreation Department

DATE: March 30, 2018

RE: BID NO. PS18-02
TOWN OF SIMSBURY
SIMSBURY FARMS
BASKETBALL COURT CONSTRUCTION
100 OLD FARMS ROAD
WEST SIMSBURY, CONNECTICUT 06092

MMI #6337-01

This **Addendum No. 1** includes responses to questions received at the March 27, 2018 mandatory pre-bid walk-through, written questions received to date and clarifications to the Project Manual and Drawings.

PRE-BID CONFERENCE

Walk-through attendees sign-in sheet and meeting agenda are included herein as part of this Addendum No. 1.

RESPONSES TO QUESTIONS ASKED AT THE PRE-BID CONFERENCE

Q1: Will the Town take any of the removed earthen material?

R1: No. It will be the contractor's responsibility to dispose of all material off site in a safe and legal manner.

Q2: What happened to the old tennis courts that were in the location of the proposed basketball courts?

R2: The town removed the asphalt and base material and transported it off site.

Q3: Does the town want the existing light poles which are to be removed?

R3: No. It will be the contractor's responsibility to dispose of all material off site in a safe and legal manner.

Q4: What is the depth of topsoil on site? Can we establish an average depth that will need to be removed so all bidders are pricing the same amount?

R4: Based off the borings performed as part of the geotechnical investigation, we can assume there will be an average of 12" of soil removed from the site.

Q5: Can you clarify the limits of clearing and grubbing required?

R5: The bid drawings show both the existing and proposed limit of vegetation which represent the required limits of clearing. See the attached sketch for additional information regarding the limits of clearing and grubbing required.

RESPONSES TO QUESTIONS RECEIVED VIA EMAIL

Q1: We would like to know if the Town of Simsbury would be interested in accepting a bid for Post-Tension Concrete instead of Asphalt for the Construction of the Simsbury Farms Basketball courts? Post-Tension Concrete provides a sturdier and more durable playing surface that will be less susceptible to the effects of climate (heat, cold, rain, etc.) than asphalt. Please let us know.

R1: Bidders may submit alternative means of construction as a voluntary bid alternate, in addition to submitting a bid in accordance to the project drawings and specifications. The town shall not be obligated to review or accept any voluntary alternates. A technical specification for the construction of post-tension concrete courts has been included herein.

THIS ENDS ADDENDUM NO. 1.

**SIMSBURY FARMS
BASKETBALL COURT CONSTRUCTION
WEST SIMSBURY, CONNECTICUT**

MANDATORY PRE-BID WALK THROUGH AGENDA

March 27, 2018 AT 10:00 AM

PROJECT: **BID NO. PS18-02**
Town of Simsbury
Simsbury Farms
Basketball Court Construction
100 Old Farms Road
West Simsbury, Connecticut 06092

MMI NO: 6337-01

INTRODUCTIONS:

- A. OWNER: Town of Simsbury
 933 Hopmeadow Street
 P.O. Box 495
 Simsbury, CT 06070
- B. FUNDING: Local
- C. ENGINEER: Milone & MacBroom, Inc.

 Kevin Fuselier – Project Manager

CORRESPONDENCE:

- A. CORRESPONDENCE TO OWNER: Gerry Toner – Director
 Simsbury Culture, Parks and
 Recreation Department
 100 Old Farms Road
 West Simsbury, CT 06092
 Email: gtoner@simsbury-ct.gov

B. CORRESPONDENCE TO ENGINEER: Milone & MacBroom Inc.
99 Realty Drive
Cheshire, CT 06410
Attn: Kevin Fuselier
Tel: (203) 271-1773
Fax: (203) 272-9733
Email: kfuselier@mminc.com

GENERAL INFORMATION:

Mandatory Pre-Bid	March 27, 2018 at 10:00 AM
Bid Opening Date:	April 5, 2018 @ 1 pm
Begin Construction:	April 24, 2018
Substantial Completion:	June 30, 2018
Liquidated Damages:	\$500/Day
Prevailing Wages:	No
Last Day to Submit Questions:	March 29, 2018
Last Day to post Addenda:	April 3, 2018

ITEMS TO BE HIGHLIGHTED:

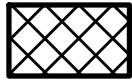
- Obtaining Bid Package – ARC Document Solutions, Farmington, CT
 - 860-677-8817
- Base Bid
 - Removal of existing light poles and fixtures
 - Dual courts
 - Four basketball hoops
 - Trench (French) drain
 - Sidewalk connection to driveway
- Alternate Bid Items
 - Electrical conduit and boxes
 - Chain link fencing & concrete curb
- Unit Price Bid Items
 - Removal and replacement of unsuitable material
- Addendum/Addenda – ARC Website
<http://www.e-arc.com/location/farmington/>

MANDATORY PRE-BID CONFERENCE FOR BID NO. PS18-02
SIMSBURY FARMS
BASKETBALL COURT CONSTRUCTION
WEST SIMSBURY, CONNECTICUT
March 26, 2018

NAME	REPRESENTING/ ADDRESS	TELEPHONE NO.	E- -Mail
Anton Paving + Const Garrett Anton	Anton Paving 409 Shore Rd Old Lyme, CT	OIC (860) 271-6870 Fax (860) 434-5212	garrettanton11@gmail.com
VT RECREATIONAL Tom Villeneuve	VT RECREATIONAL	OIC (802) 535-8881 Fax ()	Vt Rec Team@hotmail.com
Andrew Younes	50 Mountain Rd R S Site & Sports	OIC (893) 687-0150 Fax ()	sales@RSsiteandsports.com
Kelsey Black	B&W Paving & Landscaping 70 Foster Rd Waterford, CT 06385	OIC (860) 572-9942 Fax (860) 536-5833	Betty@BandW Paving.com
Matt Murphy	MJM PAVING LLC	OIC (860) 550-7256 Fax ()	mjm paving@yahoo.com
Thomas Hinding	HINDING TENNIS LLC 24 Spring St N. Haven	OIC (203) 460-6090 Fax ()	Tom@hindingtennis.com
Chris Maisano	Maisano Paving Northford	OIC (203) 239-5405 Fax (203) 234-3901	Chris@Maisano Bros.com
Paul Provest	Connecticut Sealcoating LLC P.O. Box 571 Bethlehem, CT 06751	OIC (203) 566-6716 Fax (203) 721-6104	paul@thesambroicgroup.com
Vincent Genovesi	Genovesi Construction PO box 903 toilead CT	OIC (360) 810-6107 Fax ()	Vincent@Genovesi Construction LLC.com
Ethan Girard	Sims Craft - Echo Farm 2 Farms Village Road	OIC (860) 658-3671 Fax ()	ethan@sims Craft.com
Cody Hall	Tilcon CT 642 Black Rock Ave	OIC (860) 724-6620 Fax ()	codyhall@tilcon-ct.com

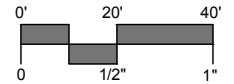
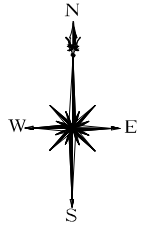
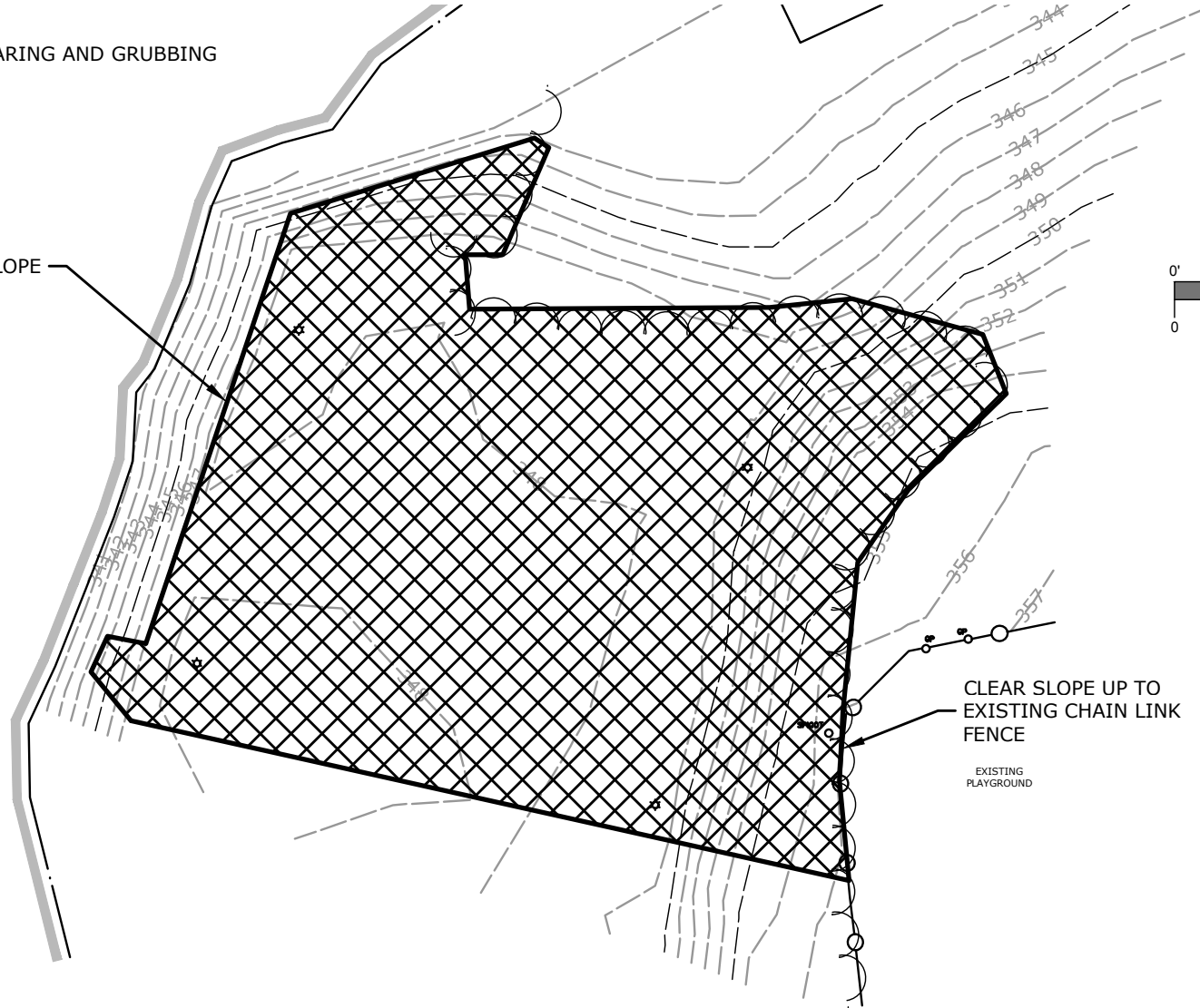
Drawing: V:\DESIGN\6337-01-DE\CAD\SEB-EXCONS.DWG Layout Tab:AD, NO. 1

Plotted by: KEVINF On this date: Wed, 2018 March 28 - 10:13am



LIMITS OF CLEARING AND GRUBBING
(±0.5 ACRES)

CLEAR TO TOP OF SLOPE



CLEAR SLOPE UP TO
EXISTING CHAIN LINK
FENCE

EXISTING
PLAYGROUND

 **MILONE & MACBROOM**
99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
www.miloneandmacbroom.com

DATE	MARCH 28, 2018
SCALE	1"=40'
PROJ. NO.	6337-01
DESIGNED	KCF
DRAWN	KCF
CHECKED	VCM

CLEARING & GRUBBING LIMITS
SIMSBURY FARM
BASKETBALL COURT CONSTRUCTION
100 OLD FARMS ROAD
WEST SIMSBURY, CONNECTICUT

REVISED: ---

PROJECT PHASE:
FOR BID

DRAWING NAME:
1 OF 1

SECTION 32 12 18 – POST-TENSIONED CONCRETE COURT SYSTEM

PART 1 - GENERAL

1.1 GENERAL DESCRIPTION

- A. Post tensioned concrete slab sport courts.

1.2 RELATED SECTIONS

- A. Related Work
 - 1. Section 11 68 23 - Playfield Equipment and Structures
 - 2. Section 31 20 00 – Earth Moving
 - 3. Section 32 13 16 – Cast-in-Place Concrete

1.3 QUALITY ASSURANCE

- A. Post tensioned Concrete Court Slab shall conform to the guidelines of the Post-Tensioning Institute (PTI) and the American Sports Builders Association (ASBA)
- B. Contractor performing work shall have a minimum Level 1 Certification from the Post-Tensioning Institute with a minimum of five (5) years' experience installing post-tension concrete courts. Bidders must provide at least five (5) references that are satisfactory to the Town and will serve to illustrate the Contractor's ability to act as the primary conveyor to accomplish the construction of the tennis courts in accordance with the specifications. References shall be for projects of similar scale and scope to the proposed contract.
- C. All post-tensioning materials shall be supplied by a Post-tensioning Institute (PTI) certified plant.
- D. The contractor shall provide an estimate of the quantity of materials to be used on site upon request.

1.4 SUBMITTALS

- A. Shop drawings: For tendon layout at each bank of courts.
- B. Product Data: For slab tensioning materials.
- C. Design Mixtures: For each concrete mix.

1.5 GUARANTEE

- A. All work stated above will include a 20 year warranty from the following:
 - 1. Any cracking of the post-tensioned slab.
- B. NOTE: Depending on the usage of the courts they may need to be recoated with acrylic color coating after seven years. The re-coating is not included in the warranty.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. The materials, including but not limited to concrete, stone and sand base courses, tensioning cables, and filter fabric for this work shall conform to the requirements of the Standard Specifications Form 817, and the Post-Tensioning Institute.

PART 3 - EXECUTION

3.1 CONSTRUCTION METHODS

A. SUBGRADE AND PREPARATION

1. Excavate existing soil to slope subgrade at 2% in the direction of the court surface slope. Install underdrains if indicated on plan or if directed by engineer and an initial base layer of 3/8" crushed stone. Subgrade layer, base layer, and sub-base layer shall each be compacted to 95% standard proctor density.
2. Fence posts, net posts, sleeves, and center anchors shall be installed prior to post-tensioned slab concrete and set in independent concrete footings, any object including net posts, fence posts, sleeves, etc. protruding through slab will be isolated from the slab using foam sleeves to allow slab to shorten as tension forces are applied.
3. A 2" layer of fine sand or aggregate will be installed over the entire area and fine graded to a 1% slope as shown on plans.
4. Polyethylene sheeting. Two (2) layers of 6 mil polyethylene sheeting placed in opposite directions to cover entire court area under slab. Overlap polyethylene sheets at least 6 inches and tape joints. All joints of proceeding layers should run perpendicular to previous. Care is to be taken not to puncture sheeting, any tears in the sheeting is to be repaired by taping.

B. CONCRETE SLAB

1. Forms shall be installed around perimeter of court and secured to the ground with stakes to prevent movement during placement of concrete. Top of form shall be finish grade. Forms shall be straight and carry a consistent slope as indicated on the contract drawings.
2. Concrete forms shall be set to the outside of fence posts and post tensioning strands shall be installed in both directions as shown on plans. All strands are to be supported on chairs and tied at all intersections to prevent vertical and horizontal movement during concrete placement. Strands to be set per Post-Tensioning Institute (PTI) specifications. A minimum of 3" clearance between strands and openings shall be maintained at fence and net post footings.
3. Concrete shall be 3,000 psi with a maximum aggregate size of ¾ inch as specified in ASTM C-150. Place concrete by pumping method. Calcium chloride or other materials containing chlorides are not permitted as admixtures. Concrete must be well consolidated, especially in the vicinity of strand anchorages. Concrete shall be spread, consolidated, screeded, bull-floated and finished in accordance with Section 7.2 of ACI (American Concrete Institute) Standard 302, Recommended Practice for Concrete Floor and Slab Construction. Immediately after finishing, the concrete should be kept

continuously moist for seven days by covering with polyethylene film or waterproof curing paper, or by sprinkling or ponding or other acceptable coverings. When concrete is sufficiently set to withstand foot pressure with only about 1/4" indentation and the water sheen has left the surface, the slab shall be uniformly finished by power floating and troweling. The final finish texture shall be a medium broom finish unless otherwise specified by the surface manufacturer. No curing compounds shall be used at any time.

4. Strip forms and stress the post tensioning strands according to their specifications. The cables shall be pre-stressed to 16,000 lbs/strand between 24 and 48 hours after the concrete is placed to avoid any shrinkage cracks from occurring. After seven days, or when concrete has reached a minimum of 2,400 psi, final stressing procedure may be applied according to PTI specifications. Jacking force for the final stressing of each tendon shall be to 33,000 lbs/strand. Strands shall be anchored at 29 kips.
5. After final stressing of tendons, ends shall be cut off to provide 1/8" of cover and a cap filled with corrosion inhibiting material placed over cable end. Pocket holes shall be filled flush with edge of slab with non-shrink, non-metallic grout. Exposed anchors shall be waterproofed prior to grouting.
6. Surface tolerance shall be a single plane with a pitch over 10 feet. Surface shall be flat to within 1/8 inch under a 10 foot long straight edge in all directions. Any variance shall be corrected by contractor at his expense using 5,000 psi epoxy grout. Finish surface shall not have a water-holding area greater than 1/8 inch deep. This is to be determined by flooding the court with water, allowing it to drain for one hour on a seventy (70) degree or warmer day. After the required patch grout mix has attained an initial set, trowel or broom the patch so that it is even and feathers into the adjacent surface. Allow the patch grout to dry overnight prior to application of coatings. Allow patches to cure completely before coatings are applied. Re-flooding and patching may be necessary until "birdbaths" are properly minimized.
7. Joints: Courts shall be poured monolithic with keyed expansion joints as detailed.

C. SURFACE COURSE

1. Application of the color finish shall be applied only after the concrete has cured a minimum of 30 days.
2. Prepare concrete surface and apply concrete primer per manufacturer recommendations.
3. Color finish material shall be Non-acrylic Combination Surface using CP- 761 concrete primer as manufactured by NOVA Sport Surfaces, or an approved equal. The material shall be delivered to the construction site in its original unopened containers, clearly labeled with trade name and name of manufacturer. The color of the finish shall be in the selected and approved by owner. Application work shall be performed by skilled mechanics in a workmanlike manner in accordance with the manufacturer's standard printed materials. No work shall be performed when rain is imminent or when temperature is below 55 degrees Fahrenheit.

PART 4 - MATERIALS AND QUALITY ASSURANCE

- 4.1 Post-tensioning material shall consist of seven wire low relaxation strands, conforming to ASTM A416/A 416M, with an ultimate strength of 270 ksi. Strands should be coated with a permanent rust preventative lubricant and wrapped with plastic sheathing. If strand sheathing is damaged

or removed, it is to be repaired by taping. A maximum of 6" exposed strand is permitted at the anchor. End anchorage devices will conform to Post-Tensioning Institute (PTI) specifications. All dead end anchorages must be power seated.

- 4.2 Concrete shall be 3,000 psi with $\frac{3}{4}$ inch maximum size coarse aggregate - as specified in Standard Specifications for Portland Cement or ASTM C-150. Aggregate shall conform to Standard Specifications for Concrete Aggregates ASTM C 33. Fly ash or other additives are not acceptable. Air entrainment by total volume of concrete shall be within the range of 5 to 7 percent. Calcium chloride or other materials containing chlorides are not permitted as admixtures.

END OF SECTION