

Bid #41-19
Rock Street Park, Rehabilitation Project

Addendum #1
Issued: March 7, 2019

This addendum forms part of the original document marked “Bid #41-19 Rock Street Park, Rehabilitation Project”

The bid opening date has been changed to March 12, 2019 at 1:00 p.m.

The first paragraph on page 3 of the bid document shall be replaced with the following:

- **Sealed** bid proposals, **plainly marked, ROCK STREET PARK REHABILITATION PROJECT Bid Proposal #41-19 on the outside of the mailing envelope as well as the sealed bid envelope**, addressed to the Finance/Purchasing Department, City Hall, 1 Junkins Avenue, Portsmouth, New Hampshire, 03801, will be accepted until **1:00 p.m. on March 12, 2019** at which time all bids will be publicly opened and read aloud.

Addendum#1 clarifies questions that have been asked and adjusts the bid documents.

Questions and Answers from the pre-bid meeting on Rock Street Park Project on 2/28/19:

1. Question: Is the Permeable material proposed under existing Red Maple near the basketball court to be constructed by Public Works or the Contractor?
Answer: This work is to be installed by the Contractor. See the specification attached to this addendum.
2. Question: How many benches are in the proposed park design?
Answer: There are a total of 6 Benches: the 4 existing benches will be refurbished with Ipe wood slats either supplied by the original manufacturer ‘DuMor’ or otherwise fabricated in a like manner from other sources. 3 of those existing benches are being relocated with new footings. In addition, there will be 2 new ‘DuMor’ benches installed by Contractor. See specification in addendum.
3. Question: Will the materials provided by the City be delivered?
Answer: The luminaires, drinking fountain, and granite blocks will be picked up by contractor at various DPW locations. In addition, it should be understood that the Contractor will be tasked with picking through the DPW stone pile for suitable granite pieces.
4. Question: What is the turnaround time for submittals?
Answer: Submittal turn-around shall be two weeks or less.

5. Question: How will the test pits for the walkway base materials be paid for?
Answer: Any test pits required to check the existing conditions of base materials shall be incidental.
6. Question: Do you have photos of the park without snow?
Answer: Photos of existing condition of project site without snow are part of this addendum.
7. Question: Will construction fencing for the park be required?
Answer: Yes, Construction fencing shall be installed by Contractor to separate the playground portion of park from the rest of park during construction activities. Since the playground will be open during the summer, this area shall be protected as long as there are unfinished conditions in the park.
8. Question: Is the Contractor required to provide the soil compaction testing in the landscaped areas?
Answer: The Contractor is responsible for the testing of site soil compaction levels as outlined in specifications.
9. Question: What is the Engineer's opinion of cost?
Answer: The preliminary construction estimate is \$255,000.
10. Question: Will work be allowed on weekends?
Answer: Construction work shall be performed between 7:00 Am -5:00 PM Monday-Friday and not on weekends.
11. Question: Is there a staging area?
Answer: New materials can be staged on Brewster Street after the turn at the bottom of the street in a portion of the road along the RR track area. One lane of the road shall remain passable to the public and materials stored there should be kept to those being used within 10 days. No materials can be stored on any portion of Foundry Place or in any area to the east of the park.

Written Questions regarding Bid Document:

1. QUESTION: The Specs state "The bidder shall include a Completed Statement of Bidders Qualifications with the information requested in above-section entitled "Rock Street Park Rehabilitation."" Is this something more than what's on Page 16 and 17 of the Contract document?
ANSWER: Page 16 and 17 of the document show the only required qualifications statements that need to be submitted.
2. QUESTION: Do we know what the existing cobblestone edging is installed/bedded in (i.e. concrete, gravel, etc.)?
ANSWER: There is no current information on how the existing cobblestone edging is installed.

3. QUESTION: Are we to understand that the entire existing walkway is bordered by cobblestones?
ANSWER: The entire existing walkway, except where the granite wall stone sits, is bordered by cobblestones.
4. QUESTION: Are any cobblestones which are not reused within the project to be returned to the City?
ANSWER: All cobblestones not reused in this project are to be returned to the City.
5. QUESTION: Are all of the stone walls (Sitting Wall and Retaining Wall) to be dry laid without mortared joints?
ANSWER: All walls are to be dry laid without mortar.
6. QUESTION: I have been unable to find specific specifications for each pay item (only some supplemental specifications covering select items), is this something that is available?
ANSWER: Aside from the special provision specifications, the specifications should follow all NHDOT specifications as mentioned in the bid. The addendum includes additional specifications for benches, permeable pave surround, and aggregate base.
7. QUESTION: I believe it was discussed at the pre-bid meeting however to confirm, the bench slats are called out as Ipe on the bid form and the plans call out Douglas Fir.
ANSWER: The bench slats are to be Ipe, see updated plans.
8. QUESTION: Is there a particular manufacturer and model for the new benches?
ANSWER: Dumor is the manufacturer of the new benches, as shown in bench specification added herein.
9. QUESTION: Are Lawn Areas to be Sod or Hydro-seed?
ANSWER: All lawn areas are to be Hydro-seeded.
10. QUESTION: The Plans call for 6" of Loam, the Specs call for 5", which should be followed?
ANSWER: The plans should be followed and loam should be 6" deep.
11. QUESTION: Is the addition of Compost to the Lawn bed to be carried within the Rototilling Pay Item?
ANSWER: The compost addition to the lawn bed is to be carried with the Rototill Pay item.
12. QUESTION: How is the crushed stone being placed under the engineered wood being paid for?
ANSWER: The crushed stone for under the engineered wood is included in item 2.39 and is added to the specifications as section 304.91.
13. QUESTION: With so many apparently incidental items to the work, is it possible to add a Mobilization Line to the bid sheet?
ANSWER: A Mobilization line was added to the bid list as Item 2.39 Mobilization.
14. QUESTION: Does the play area expand?
ANSWER: Yes, the play area expands approximately 280 SF or about 9'-7". Excavation required. This new area will have a 10" deep base of crushed stone with filter fabric and topped with Engineered wood fiber as specified and shown on L.1.

The following changes shall be incorporated into the bid document:

1. PLAN SET

- a. ALL SHEETS
 - i. NEW BENCH NOTES + NEW BENCHES UPDATED
 - ii. SLIDE + SPRING ANIMAL LOCATIONS UPDATED W/ SPRING ANIMAL SAFETY ZONES SHOWN
- b. D-1
 - i. EXPANSION TO PLAY AREA DELINEATED
- c. L-1
 - i. BENCH WOOD TYPE CHANGED FROM DOUGLAS FIR TO IPE
 - ii. NOTE REGARDING PERMEABLE PAVE TREE SURROUND CHANGED

2. SPECIFICATIONS

- a. PROPOSAL FORM CONSTRUCTION ITEMS
(PAGES 10 – 12)
 - i. ITEM 1.14 BENCH SEATS TO BE REPLACED – (CHANGED FROM DOUGLAS FIR TO IPE)
 - ii. EDITED ITEM 1.4 TO INCLUDE SPRING ANIMAL REMOVAL
 - iii. Page 12 PROPOSAL FORM NUMBERS RELISTED (2.31 WAS DUPLICATE, 2.31-2.36 CHANGED TO 2.32-2.37)
 - iv. EDITED ITEM 2.23 ENGINEERED WOOD FIBER QTY FROM 155 CY TO 182 CY
 - v. EDITED ITEM 2.34 P/T EDGING QTY FROM 245 LF TO 264 LF
 - vi. EDITED ITEM 2.36 CRUSHED GRAVEL FOR VARIOUS APPLICATION (FORMERLY ITEM 2.35) QTY FROM 50 CY TO 131 CY (PAGE 12)*
 - vii. ADDED ITEM 2.38 MOBILIZATION 1 UNIT
 - viii. ADDED ITEM 2.39 #67 CRUSHED STONE FOR 2” DEEP BASE PLAY AREA. 10” DEEP BASE NEW PLAY AREA ADDITION (PAGE 12)*
- b. SPECIAL PROVISIONS (PAGE 47)
 - i. “SECTION 11480 (11 65 00) GYMNASIUM AND PLAY FIELD EQUIPMENT“ EDITED - BASKETBALL HOOP POST TO BE 5” NOT 6” (THE SHOP DRAWINGS SHOW 6” POST, BUT 5” POST TO BE USED)
 - ii. “SECTION 12 93 43.13 BENCHES” ADDED (PAGE 114)
 - iii. “ROCK STREET PARK PERMEABLE PAVE TREE SURROUND SPECIFICATIONS” ADDED (PAGE 115)

- iv. "SECTION 304.91 AGGREGATE BASE COURSES" (PAGE 116)*
- c. SHOP DRAWINGS (PAGE 117)
 - i. "DUMOR BENCH" ADDED (PAGE 151-152)

*NOTE ALL REFERENCES TO CRUSHED STONE OR GRAVEL SHALL FOLLOW NHDOT SPECIFICATIONS OF SECTION 304.3, EXCEPT UNDER THE ENGINEERED WOOD FIBER, WHICH SHALL FOLLOW SECTION 304.91 FOR #67 CRUSHED STONE.

ATTACHED

- UPDATED PROPOSAL FORM
- SPECIAL PROVISIONS
 - BENCHES
 - PERMEABLE PAVE TREE SURROUND
 - AGGREGATE BASE
- SHOP DRAWINGS
 - DUMOR BENCH
- PDF OF SITE IMAGES
- UPDATED PLAN SET

The updated plan set replaces the original plan set.

Bidders are to acknowledge this addendum within their proposals. Failure to do so may subject a bidder to disqualification.

PROPOSAL FORM
CONSTRUCTION ITEMS

ITEM #	EST. QTY.	UNITS	ITEM DESCRIPTION	UNIT PRICE IN FIGURES	ITEM TOTAL IN FIGURES
1.1	1	LS	EXISTING COBBLESTONE EDGING REMOVAL AND RE-USE PER PLAN	_____	_____
1.2	3	Ea	BENCHES TO BE RELOCATED	_____	_____
1.3	4	Ea	BENCH SEATS TO BE REPLACED WITH IPE SLATS IN KIND	_____	_____
1.4	2	Ea	BOUNCY ANIMALS TO BE RELOCATED AND 1 BOUNCY ANIMAL TO BE REMOVED	_____	_____
1.5	1	Ea	REMOVAL OF EX. JUNGLE GYM	_____	_____
1.6	1	Ea	REMOVAL OF EX. SWING STRUCTURE	_____	_____
1.7	10	LF	CHAIN-LINK TOP RAIL REPLACEMENT ONLY, TO REPAIR EXISTING FENCE	_____	_____
1.8	1	LS	REMOVAL OF SUDBURY ST BRICK PAVE	_____	_____
1.9	1	LS	EXCAVATE OUT WALK BASE MATERIAL 15" DEEP IF DETERMINED TO BE NECESSARY	_____	_____
1.10	1	LS	REMOVE AND REPLACE IRRIGATION	_____	_____
1.11	37	LF	EX. CHAIN LINK FENCE TO BE REMOVED	_____	_____
1.12	179	LF	REMOVAL OF WOOD STOCKADE FENCE	_____	_____
1.13	1	Ea	REMOVAL OF WOOD STAGE (SAVE METAL ORNAMENTAL WORK)	_____	_____
1.14	22	Ea	23-48"+ LONG GRANITE SEAT BLOCKS (TO BE RECONDITIONED)(INSTALLATION ITEM BELOW)	_____	_____
1.15	1	Ea	SPRING ANIMAL REMOVAL	_____	_____
2.1	1	Ea	BASKETBALL HOOP INSTALLED COMPLETE	_____	_____
2.2	360	SY	PAVED WALKWAY 3" BITUMINOUS ASPHALT	_____	_____

2.3	4812	SF	PLANTING BEDS ROTOTILLED	_____	_____
2.4	18	CY	10% AGED COMPOST IN PLANTING BEDS	_____	_____
2.5	60	CY	MULCH FOR PLANTING BEDS	_____	_____
2.6	8540	SF	LAWN	_____	_____
2.7	8540	SF	ROTOTILLING LAWN	_____	_____
2.8	6	Ea	CARPINUS 1.5" CAL.	_____	_____
2.9	6	Ea	AMELANCHIER 1.5" CAL	_____	_____
2.10	2	Ea	WITCHAZEL 4-5' HT	_____	_____
2.11	2	Ea	FRINGE TREE 5-6' HT HVY	_____	_____
2.12	4	Ea	PARROTIA 2" CAL SPECIMEN	_____	_____
2.13	2	Ea	HALESIA 'JERSEY BELLE' 2" CAL	_____	_____
2.14	12	Ea	THUJA OCCIDENTALIS 'NIGRA'	_____	_____
2.15	1	Ea	JUNIPERUS 'EMERALD SENTINEL'	_____	_____
2.15	709	Ea	GROUNDCOVERS (XAN, GER, FERNS)	_____	_____
2.16	90	Ea	SHRUBS (RHUS 1 GAL.)	_____	_____
2.17	53	Ea	ORNAMENTAL GRASSES	_____	_____
2.18	155	LF	NEW STOCKADE FENCE	_____	_____
2.19	1	Ea	NEW SWING (2 REGULAR, 1 TODDLER)	_____	_____
2.20	1	Ea.	NEW DOUBLE SLIDE	_____	_____
2.21	1	Ea	SPIDERNEST CLIMBING NET	_____	_____
2.22	1	Ea	WATER FOUNTAIN AND SUPPLY TUBING INSTALLATION COMPLETE (CITY SUPPLIED FOUNTAIN)	_____	_____
2.23	182	CY	ENGINEERED WOOD FIBER	_____	_____
2.24	20	Ea	PICK THROUGH, PICK UP AND INSTALL CITY STONE 4' LONG BLOCKS FOR PLAYGROUND	_____	_____
2.25	360	SY	CHIP SEAL FOR BITUMINOUS WALKWAY (SEE SPECIFICATION)	_____	_____
2.26	2392	SF	RESURFACING OF AND PAINTING OF PLAY COURT	_____	_____

2.27	500	SF	POROUS PAVEMENT OVER TREE ROOTS	_____	_____
2.28	76	LF	STONE SITTING WALLS (18" HT) (INSTALL RECONDITIONED STONES)	_____	_____
2.29	5	Ea	STREET LIGHT (INSTALLATION ONLY) (PROVIDED BY CITY)	_____	_____
2.30	5	Ea	STREET LIGHT FOUNDATIONS	_____	_____
2.31	1	EA	MILBANK ELECTRIC CABINET AND ALL CONDUIT, PULL BOXES AND WIRING	_____	_____
2.32	84	LF	8' BLACK VINYL COATED 9GA STEEL CHAIN-LINK FENCE BY BASKETBALL COURTS	_____	_____
2.33	63	LF	4' BLACK VINYL COATED 9GA STEEL CHAIN-LINK FENCE	_____	_____
2.34	264	LF	NEW P/T EDGING AT PLAYGROUND	_____	_____
2.35	1	LS	FINISH GRADING, EARTHWORK, DRAINAGE	_____	_____
2.36	131	CY	CRUSHED GRAVEL FOR VARIOUS APPLICATION (12" DEEP WALKWAY BASE, 24" DEEP BASE FOR WALLS)	_____	_____
2.37	2	Ea	NEW DUMOR BENCHES	_____	_____
2.38	1	Ea	MOBILIZATION	_____	_____
2.39	27	CY	#67 CRUSHED STONE FOR 2" DEEP BASE PLAY AREA, 10" DEEP BASE NEW PLAY AREA ADDITION	_____	_____

All quantities are estimates only. Contractor shall inspect park conditions to verify quantities for pricing determination. Only major items are listed, anything not listed but otherwise shown on plans or described in the specifications is incidental.

TOTAL FOR PROJECT AND BASIS OF AWARD

Total in Figures \$ _____

In Words \$ _____

The City reserves the right to delete any portion of the work/reduce the quantities of work represented in this bid proposal form.

The undersigned agrees that for extra work, if any, performed in accordance with the terms and provisions of the Contract Documents, the bidder will accept compensation as stipulated therein.

Date

Company

By: _____
Signature

Business Address

Title: _____

City, State, Zip Code

Telephone: _____

The Bidder has received and acknowledged Addenda No. _____ through _____.

All Bids are to be submitted on this form and in a sealed envelope, plainly marked on the outside with the Bidder's name and address and the Project name as it appears at the top of the Proposal Form.

In order to follow the City's sustainability practices, future bid invitations/specifications may be sent electronically. Please provide an email address as to where the City could email future bid invitations/specifications of this type. Thank you in advance for your cooperation.

Email Address: _____

SECTION 11480 (11 65 00)
GYMNASIUM AND PLAY FIELD EQUIPMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Gymnasium and Play Field Equipment:
 - 1. Outdoor basketball backstops.
 - 2. Outdoor basketball backboards.
 - 3. Outdoor basketball goals.

1.2 RELATED SECTIONS

- A. SECTION 11480 (11 65 00) GYMNASIUM AND PLAY FIELD EQUIPMENT

1.3 REFERENCES

- A. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM F 2440 – Standard Specification for Indoor Wall/Feature Padding.
- C. Federal Standard 191 – Textile Test Methods.

- D. NFPA 101 – Life Safety Code.
- E. NFPA 255 – Surface Burning Characteristics of Building Materials.
- F. NFPA 286 – Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
- G. NFPA 701 – Methods of Fire Tests for Flame-Resistant Textiles and Films.
- H. UL 214 – Test for Flame-Propagation of Fabrics and Films.

1.4 DESIGN REQUIREMENTS

- A. Basketball Backstops: Locate overhead attachments of basketball backstops in keeping with static equivalent loading and point reactions.

1.5 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including materials, components, fabrication, finish, and installation instructions.
- C. Shop Drawings:
 - 1. Submit manufacturer's shop drawings, including plans, elevations, sections, and details, indicating locations, quantities, dimensions, tolerances, materials, fabrication, connections, hardware, fasteners, finish, options, and accessories.
 - 2. Show location and detail of attachment to building structure.

- D. Design Data:
 - 1. Basketball Backstops:
 - a. Submit manufacturer's design data, indicating static loads and point reactions.
 - b. Submit calculations complete, showing hanger and hoist pulley points.
 - c. General load charts or generic product laboratory test data will not be considered sufficient data.
- E. Test Reports: Submit manufacturer's certified test reports from testing performed by accredited independent testing laboratory, indicating compliance of materials with requirements as specified.
- F. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- G. Operation and Maintenance Manual: Submit manufacturer's operation and maintenance manual; including operation, maintenance, adjustment, and cleaning instructions; trouble shooting guide; and parts list.
- H. Warranty: Submit manufacturer's standard, lifetime, and additional warranties.

1.6 QUALITY ASSURANCE

- A. Single Source Responsibility: Provide gymnasium and play field equipment from single manufacturer.
- B. Manufacturer's Qualifications: Minimum of 5 consecutive years experience manufacturing gymnasium and play field equipment similar to that specified.
- C. Installer's Qualifications: Trained and approved by manufacturer.

D. Regulatory Requirements: Gymnasium and play field equipment shall conform to latest rules and regulations.

1. International Basketball Federation / Federation International de Basketball (FIBA).
2. National Association for Girls and Women in Sport (NAGWS).
3. National Basketball Association (NBA).
4. National Collegiate Athletic Association (NCAA).
5. National Federation of State High School Associations (NFHS).

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions. Keep temporary protective coverings in place.
- C. Handling: Protect materials and finish from damage during handling and installation.

1.8 WARRANTY

- A. Provide 1-year warranty against defects in materials and workmanship, unless otherwise specified.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Bison, Inc., 603 L Street Lincoln, NE 68508. 1-800-247-7668 M-F 8-5 CST
FAX 1-800-638-0698. Web Site <https://www.bisoninc.com/contact-us/>

- B. Substitutions: Requests for substitutions will be considered.

2.2 OUTDOOR BASKETBALL SYSTEM

A. Original Ultimate Playground Basketball System - SKU: BA871-BK

1. BA871-BK System includes
 - a. 5" square, 3/16" wall structural steel tube suitable for a 39" in-ground installation. 45° extension arm shall be 5" square, 3/16" wall structural tube with a 4" square, 1/8" wall steel tube horizontal support and 1/4" thick steel backboard support plate. Pole shall be designed so that rim mounts directly to pole to minimize stress on the backboard. Extension arm shall be mounted by means of 6 each 5/8" grade 8 bolts. Pole system shall provide a minimum setback from the front of pole to front of backboard of 60". Entire pole system shall have a textured black polyester powder coated finish and carry a lifetime functional warranty. Vertical pole shall be capped to keep out rain.
 - b. Backboard shall be constructed of formed and welded steel with a 42" x 60" rectangular playing surface. Skin shall be 12 ga. mild steel and rear structure shall be 7 ga. and 10 ga. steel. All edges of the skin shall be formed in such a way that no shear edges are exposed. Boards with exposed shear edges shall not be considered equal. The backboard shall be coated with a white polyester powder coated finish and have an official-sized orange shooter's square. Backboards shall carry an unconditional lifetime functional warranty.
 - c. Rim shall consist of two 5/8" diameter high strength steel rings welded together at a minimum of six places. Back and side plates shall be 3/16" thick and be continuously welded.
 - d. The net attachment system shall be of a continuous type constructed of 3/16" x 1" steel with punched net attachment slots suitable for nylon (included) or chain (optional) nets. Individual or continuous wire formed netlocks are not an acceptable equal. Rim shall have an unconditional lifetime warranty and orange powder coated finish. Installation to be completed in accordance to manufacturer's instructions. Do not scale drawings. Entire system weight shall be 500#.

SECTION 12 93 43.13
BENCHES

PART 1 – GENERAL

1.1 Description of Work

This work includes all labor, materials, tools, equipment, transportation, protection, and supervision necessary and required to furnish and install the site furnishings as specified in the contract documents and as follows:

A. Benches (two)

1.2 Coordination Contractor shall be responsible for coordinating work under this section with other trades and disciplines impacting this work, including the contractor installing the benches.

1.3 Quality Assurance

A. Benches shall be obtained from the following supplier:

DuMor, Inc. 15 Industrial Circle, P.O. Box 142 Mifflintown, PA 1709-0142
Phone: 1-800-598- 4018 www.dumor.com

1.4 Submittals

A. Product Information: Cut Sheet and Item numbers for benches for verification to specifications prior to ordering.

B. Samples to be provided for approval.

C. Warranty: Provide manufacturer's standard warranty.

1.5 Delivery, Storage, And Handling

A. Deliver packaged materials in original, unopened packages.

B. Protect from damage prior to and during installation. Damage, including scratches, chips, dents will be cause for rejection and replacement, and at no additional cost to Contracting Authority.

1.6 Field Conditions

Verify that concrete paving is constructed to the required dimensions and grades and are ready for installation of site furniture.

PART 2 - PRODUCTS

2.1 Site Furniture

A. Provide the following site furniture from the following supplier:

1. DuMor, Inc.

a. 6 foot Bench, Backless: **146-601**; Bronze Color (to match existing):
“Ipe”.

PART 3 - EXECUTION

3.1 Examination

Examine areas where site furnishings are to be mounted, with Installer present, for compliance with requirements and conditions affecting installation and performance of the Work.

3.2 Installation

Install site furnishings in accordance with suppliers written recommendations.

PART 4 - METHOD OF MEASUREMENT AND BASIS OF PAYMENT

4.1 Method of Measurement: The Engineer will count each installed bench that is in conformance with the construction documents.

4.2 Basis of Payment: Payment will be at the contract unit price bid for each site furnishing. This payment shall be full compensation for all transportation, materials, tools, equipment, supervision and labor to furnish and install the site furniture in accordance with the contract documents. Payment includes manufacturer’s standard warranty.

Rock St. Park Permeable Pave Tree Surround Specifications

- Prior to any construction, the tree root zone shall be protected to the dripline of the tree. This shall be done with 4-5 inches of wood chips throughout the entirety of the drip line.

- Prior to installation of the permeable pave, the wood chips shall be completely removed from around the tree, and taken off site.
 - Prior to air spading, all turf and plant material shall be removed throughout the dripline.
 - The contractor shall then perform radial trench air spading throughout the entirety of the dripline.
 - The radial trench pattern shall be made to dissect the dripline into eight quadrants. The trenches should be at a 45 degree angle from each other. Each trench shall be made at a depth of 8 inches.
 - Each trench shall then be backfilled with activated biochar. Excess soil shall be removed from the site.

- For preparation and installation of the Permeable Pave product, please see manufacturer's recommendations.

- For product, the contractor shall use Splash Sales and Marketing Inc., Porous Pave Inc.
 - Company contact: Jim Daulerio
 - jim@splashreps.com
 - 215-888-4150

- The color of the material shall be brown.

SECTION 304.91
AGGREGATE BASE COURSES

Amend Section 304 to include:

Materials:

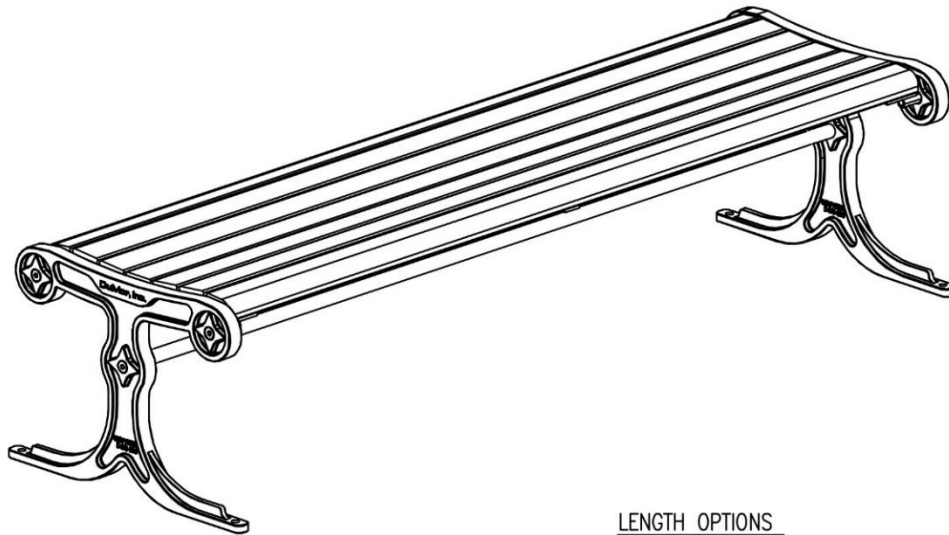
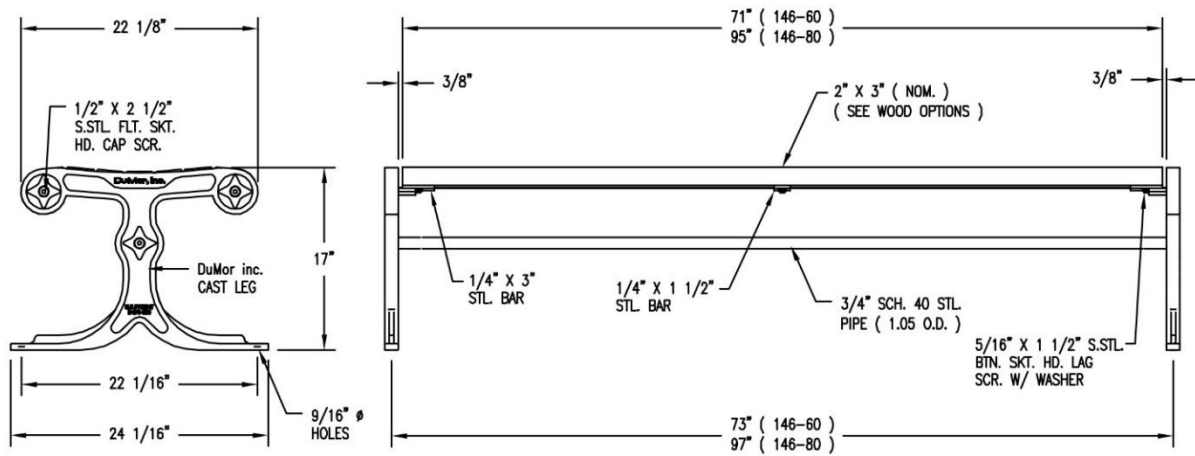
1.1. Aggregate. Sources of Aggregate and preliminary test results shall be submitted ten working days prior to any placement of material on the job. Failure of these preliminary tests will be grounds for rejection of material from that source. All Measurements shall be in-place compacted quantities in accordance with the plans and specifications.

1.2 Crushed Stone for under the engineered wood fiber shall be #67 crushed stone as described in table 703.1 in the NHDOT standard specifications.

Basis of Payment

Payment will be made under:

Pay Item	Pay Unit
304.91 NHDOT #67 CRUSHED STONE	CY



LENGTH OPTIONS

- 6' BENCH
- 8' BENCH

NOTES

- 1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN POLYESTER POWDER COATED.
- 2.) WOOD MEMBERS TRTD. W/ CLEAR PRESERVATIVE.
- 3.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

WOOD OPTIONS

- 'C' & BTR. DOUGLAS FIR S4S EE
- IPE S4S EE
- OTHER _____



BENCH
PATENT D470-690

DATE DRAWN : 07/11/01
DRAWN BY : AWH
DATE REV. : 10/27/11
REV. BY : RDH

REV.
C

DRAWING
NUMBER

146 SERIES

SHEET
1 OF 2

NOTES:

- 1.) DURING ASSEMBLY PROCEDURE; DO NOT COMPLETELY TIGHTEN HARDWARE.
- 2.) THE ACTUAL PARTS WILL NOT BE NUMBERED. NUMBERS ONLY APPLY TO DRAWING.
- 3.) UPON COMPLETION OF ASSEMBLY SQUARE ALL COMPONENTS THEN TIGHTEN ALL HARDWARE.
- 4.) MOUNT AND ANCHOR AS SPECIFIED.

TOOLS REQ'D

- 3/4" WRENCH
- 3/16" ALLEN WRENCH
- 5/16" ALLEN WRENCH
- 1/2" MASONRY DRILL BIT
- DRILL

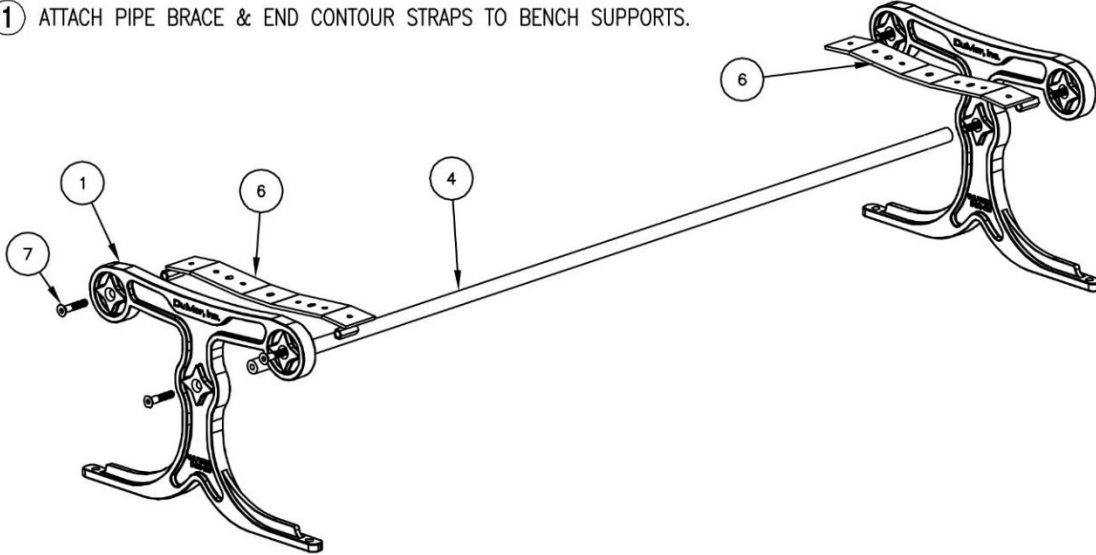
PARTS LIST

ITEM	QTY	PART NO	DESCRIPTION
1	2	0-144-00-01	CAST IRON BENCH SUPPORT W/O BACK
2	5	0-57-60-01	2" X 3" X 71" WOOD INT'R SLAT
3	2	0-57-60-02	2" X 3" X 71" WOOD EDGE SLAT
4	1	0-57-60-04	71 3/4" PIPE BRACE
5	1	0-91-00-03	CENTER STRAP
6	2	0-91-00-04	END CONTOUR STRAP
7	6	1-12-065	1/2" X 2 1/2" FLT SKT HD CAP SCR
8	21	1-13-023	5/16" X 1 1/2" SS BTN SKT HD LAG
9	21	1-22-017	5/16" SS FLAT WASHER

KITS PROVIDED

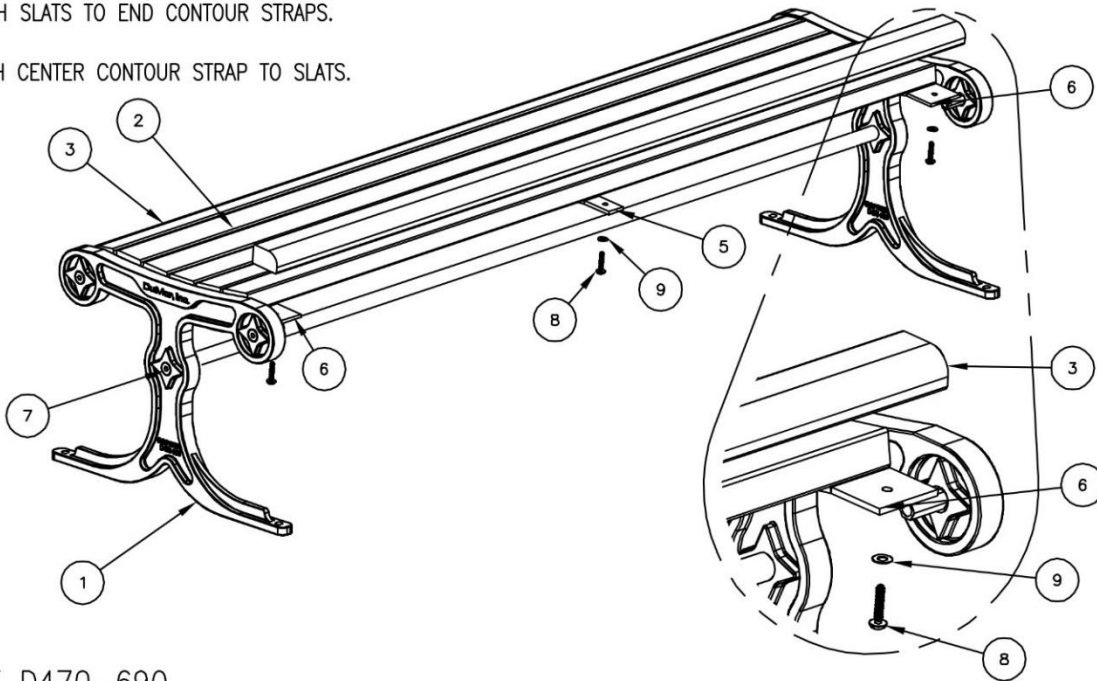
ITEM	QTY	PART NO	DESCRIPTION
10	1	K-ANC0860-4	1/2" X 3 3/4" SS ANCHOR KIT (4PC)
11	1	K-BL0524-21	5/16" LAG HARDWARE KIT (21PC)
12	1	K-FC0840-6	1/2" CAP HARDWARE KIT (6PC)

① ATTACH PIPE BRACE & END CONTOUR STRAPS TO BENCH SUPPORTS.



② ATTACH SLATS TO END CONTOUR STRAPS.

③ ATTACH CENTER CONTOUR STRAP TO SLATS.



PATENT D470-690



ASSEMBLY INSTRUCTIONS

DATE DRAWN : 07/11/01
 DRAWN BY : AWH
 DATE REV. : 10/27/11
 REV. BY : RDH

REV. A

DRAWING NUMBER

146 SERIES

SHEET 2 OF 2



SUDBURY ST. ENTRY



VIEW TO SUDBURY



STONE BLOCKS NEAR BASKETBALL COURT



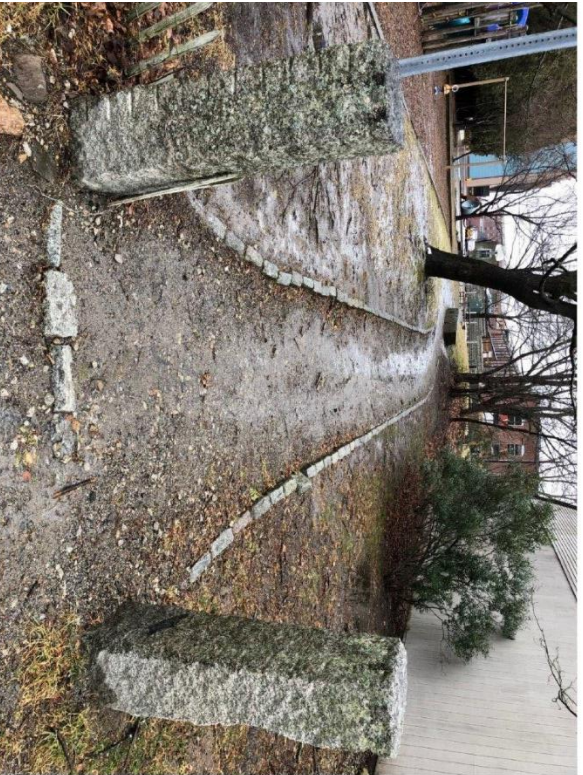
VIEW TO BASKETBALL COURT



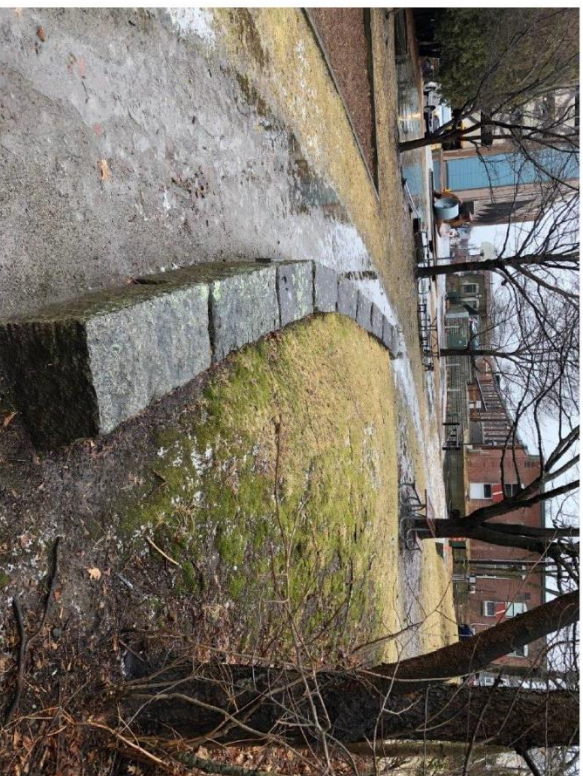
PLAYGROUND



CENTRAL PATH



BREWSTER STREET ENTRY



VIEW TO BASKETBALL COURT