



**CALVERT COUNTY  
DEPARTMENT OF FINANCE & BUDGET  
PROCUREMENT OFFICE**

129 Main Street  
Prince Frederick, Maryland 20678  
410-535-1600 • 301-855-1243  
www.calvertcountymd.gov

*Board of Commissioners*  
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March 21, 2023

**ITB 2023-003  
DUNKIRK DISTRICT PARK TENNIS COURT COMPLEX CONSTRUCTION**

**QUESTIONS AND ANSWERS/CLARIFICATION NO. 3**

Following are questions and answers/clarification for the above-referenced Invitation to Bid. Acknowledge receipt of this document by executing the signature block provided on each page. **This completed and signed document should be included with your bid.** Failure to do so may subject bidder to disqualification.

1. Sheet C701 - Sediment Trap ST- II is indicated as stone/rip-rap outlet but no stone/rip-rap is shown at the trap outlet. Please confirm ST-II has a rip-rap outlet. **Stone / Riprap Outlet will be needed and is located on sheet C701 at elevation 124.75 X 16' wide. No stone is shown but the 16' wide dimension represents the proposed location.**
2. Sheet C701 indicates a sump pit to be installed in ST-II. If ST-II has a stone/rip-rap outlet why would the sump be required. Please confirm that SP & FB are required. If required, please advise of anticipated frequency of use. **The sump pit and filter bag are required when dewatering the sediment trap at the removal and conversion of the trap. Refer to the phase 2 sequence of construction for that step.**
3. Bid Form Item A-1 - Exhibit A - Please further clarify deduct work. Assuming, fencing, surface treatment, nets, benches and stripping and lighting are deducted and just two courts are to be provided? Would stone and asphalt be placed for the other courts? or topsoil & seed? Would the bathroom building be provided if only two courts are constructed? Please provide plan and more detailed scope. **The deductive alternate scope is provided in Exhibit A of the contract documents. This scope includes all items listed in the question in addition to any subbase, base, stone, and asphalt. The area is proposed to be brought to grade pursuant to the approved grading plan using soil and stabilized with seed and mulch per the current MD Sediment Control Manual regulations. All drainage areas shall be maintained per the approved plan. The bathroom is being provided regardless of how many courts are constructed.**
4. Specification Section 312000 references Attachment B Geotechnical Report but it has not been included. Please provide Attachment B Geotechnical Report. **See Addendum No. 3 for the accompanying geotechnical report.**
5. Please confirm that the project is not a wage scale project. If required, please provide scale. **No, this is not a wage scale project.**
6. Supplemental General Provisions; paragraph 3.E.1 & 3.F.1 - What permits will the contractor be required to provide besides trade permits? **All permits.**
7. Sheet C202 - Please confirm that CR6/GAB will be the only acceptable material for pavement subbase/base and that bank run gravel is not an equivalent. If equivalent, please provide equivalent depth for the bank run gravel. **Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone. An equivalent depth for bank run gravel would be a 20% increase to what is shown on the contract documents Sheet C202. Bank run gravel is the naturally graded mixture equivalent, but requires a 20% increase from the contract document provision.**

CONTRACTOR'S LEGAL BUSINESS NAME: \_\_\_\_\_

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8. Specification Section 312000 paragraph 3.4 & 3.7.D - Please confirm that subgrade is not unclassified and if subgrade requires undercut and refill it will be paid for by the submitted bid form unit prices. **Confirmed.**
9. How quickly will the project be awarded? Please provide anticipated time of year the work will be performed. **See scope for award timeline.**
10. Specification Section 312000 paragraph 3.19.B - Project has surplus soil - does County have a designated storage area for surplus materials? **No.**
11. Specification Section 312000 paragraph 3.20 - References Geotechnical Report but it was not inserted. Please provide the report. **See response to Question #4.**
12. C201 and C205 - Indicate bike racks: Please provide the name of an acceptable manufacturer and provide detail of anchoring requirements. Does a concrete base need to be poured or do they attach to the asphalt? **See Addendum No. 4 for specified bike racks. A 1'-0" X 2'-0" concrete pad shall be located beneath the back rack matching the concrete sidewalk section detail #5 on sheet C202 and shall be mounted per manufacturer recommendations.**
13. C201 and C205 - Indicate benches: Please provide the name of an acceptable manufacturer and provide detail of anchoring requirements. Does a concrete base need to be poured or do they attach to the asphalt? **See Addendum No. 4 for specified benches. A 1'-6" X 1'-6" concrete pad shall be located beneath each bench leg (2) matching the concrete sidewalk detail section #5 on sheet C202 and shall be mounted per manufacturer recommendations.**
14. Sheet C301; TD-400 TD-300 TD-200 effluent pipes are indicated as 8" solid sch 40 PVC. Sheet 303 indicates the piping as 8" HDPE. Please advise is the pipe and cleanout assemblies 8" SCH40 PVC or 8" HDPE. **All 8" Pipe exiting the trench drains shall be HDPE and the cleanout assemblies shall be sch40 PVC.**
15. Sheet C301- CO300 and CO301 please advise if cleanout riser diameter can be reduced to 6" diameter and if a 90 or 2-45's are required? **The cleanout risers shall be reduced to 6" diameter. Two 45 – 1/8-degree bends are preferred.**
16. Sheet C301- Are 12" diameter frame and covers required over cleanout CO300 and CO301 since they are in the asphalt walk? **Yes.**
17. Sheet C401 & C402 - 3" and 2" waterline is stated as PVC. Please indicate the type of PVC pipe & fittings required( sch 40, sch 80, SDR-21)? Are fittings gasketed or glued? Are pipe and fittings restrained? Possibly 3" waterline should be increased to 4" utilizing PVC C900 with ductile iron MJ fittings and megalugs. **The 3" and 2" water lines shall be SDE-21 pressure pipe using gasket joints. A bell Harness restraint shall be used for pipe-to-pipe restraint. Concrete thrust blocking shall be provided at change of direction (tees, bends & elbows).**
18. Sheet C401 & C402 - C401 indicates sewer as 6". C402 indicates it as 8". Please indicate the correct size. **The sanitary sewer shall be 8" SDR 35. See Addendum No. 4, respectively.**
19. Sheet C401, C402 & C403 - Please confirm that the pretreatment tank, pump station wet well, valve vault and diversion valve vault are not traffic bearing/ H2O load rated. **The pretreatment tank, pump station wet well, and diversion valve vault are not designed to be traffic bearing and are located outside of the pavement area.**
20. Sheet C403 - Pretreatment Tank: The treatment zone volume as dimensioned is not large enough. Settling zone should be decreased and tank ID should be increased to 5'8". Treatment zone has to have a minimum volume of 2,250 gallons calculated from the effluent center line. **The minimum volumes as indicated on the drawings shall be required. The Contractor shall obtain approval from the Calvert County Health Department as part of the Sanitary Construction Permit for any proposed changes.**

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21. Sheet C403 - Duplex Pumping Station; Appears that wet well interior diameter of 12' is way oversized for duplex pumps capable of pumping only 29 GPM and a plant volume of only 2,500 GPD. A more economical approach would be to utilize a 2,000 gallon precast pump chamber with a hatch cast in slab top. With a 2,000 gallon pump chamber and the settling volume of the pretreatment tank a day's worth of storage would be provided. **See response to question #20.**
22. Sheet C404 - Valve Vault Valves - 2" Flanged plug valves and check valves are not made. Please provide specifications for small diameter valves, materials of construction and valve operator requirements. Please confirm that compression true union SCH 80 PVC ball valves, 1/4 turn and lever operated would be acceptable. Please confirm that compression true union SCH 80 PVC check valves would be acceptable. **Both union SCH 80 PVC ball valves and true union SCH 80 PVC check valves shall be acceptable. See Addendum No. 4, respectively.**
23. Sheet C404 - Valve Vault and Diversion vault - Please confirm that glued joint fitting will be allowed and that flange joints are not necessary. Diversion vault cross indicates both flanged and glued. **The socket and threaded option can be fully taken apart at any time after installation for cleaning and maintenance. Flange joints are required.**
24. Sheet C701 - Please confirm Smart Fence can be substituted for Super Silt Fence. **Smart fence is an approved equivalent by MDE. The Contractor shall be responsible for approvals from sediment control inspector for substitution.**
25. Sheet C702 - Is AGIP required at TD400? **Yes, at Grade inlet protection shall be required.**
26. Sheet C702; Sequence of Construction no. 19 - Sequence implies southern tennis courts are to be constructed prior to installing stone base for northern courts. Please confirm that all stone bases can be placed prior to placing asphalt and surface treatment of southern courts and that asphalt and surface treatment of courts can be performed in one mobilization. **Yes, all stone bases and surface treatments can be placed in one mobilization; per sequence note 19, it is all listed under that phase.**
27. Sheet C205 Detail 25 - Please specify the finish of the tree grate. **Baked-on oil finish powder coat. See Addendum No. 4, respectively.**
28. Sheet C302 SD-8; Please confirm there is no 24" HDPE pipe to be installed. **Confirmed.**
29. Sheet C401 - Please confirm that pretreatment unit and drainage trenches are to be installed by a MD/Calvert County licensed septic installer. **Yes.**
30. Can onsite material be used for pipe backfill? **Refer to Specification 312000 FL - Earth Moving, section Part 3 – Execution 3.11.**
31. On sheet C507, Section Micro-bioretenion with Riser shows 4" of sand. On sheets C501 through C504 the Design/As-built Data does not show sand; however, it does refer to 4" Recharge Section. Is this recharge section sand? **The 4" of Coarse Sand shall be installed above the 4" of Pea Gravel per the Section on Sheet C507. The 4" of Recharge refers to the 4" of Underdrain Gravel beneath the 4" perforated underdrain pipe within the micro bioretention facility.**
32. Sheet C507 states observation well size is 4" or 6". Is the observation well to be 4" or 6"? **The observation well shall be 4" sch 40 PVC. See Addendum No. 4, respectively.**
33. What is the size of the sewer field observation well? **The observation well shall be 4" sch 40 PVC.**
34. On sheet C301 TD 200 to ES 200 pipe is shown to be SD-9, which is 48" HDPE. Should this be SD-10, Trench Drain? **Yes, TD-200 is a K300 Trench drain with an 8" HDPE exiting to End Section ES-200.**

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35. The waterline sequence of construction conflicts with the E&S plan, which shows E&S Controls being installed prior to removal of existing waterline in the same area and new tie ins. Is this the way this is to be constructed? What is the purpose of relocating the waterline? **Perimeter controls are to be installed prior to the installation of the water line, then the swale from the existing head wall to ES-601. The water line must be relocated for the installation of the bypass swale running parallel to the existing parking lot.**
36. Can you provide a location for the iron tree grates and a quantity? **The tree grates are noted as N-25 on the Site Layout Plan C201, located between the U10 tennis and 78' tennis courts at a quantity of 6 total.**
37. Will there be enough salvaged topsoil for the project? **The Contractor shall be responsible for determining bid quantities based on project requirements indicated in the documents.**
38. Will topsoil need to be imported? **See response to question #37.**
39. For the prefabricated restroom building, the specifications and drawings call out for electric wall mounted heaters, which requires a full insulation envelope. From our experience with these buildings, it is much more cost efficient and feasible for the shipping weight of the building, and also much more vandal resistant to utilize an in-floor slab hydronic freeze protection system for cold weather usage of the building. Would this system be acceptable? **No.**
40. C206, E5.1 - Please provide foundation requirements/detail for MUSCO sports lighting poles. Are they direct burial or will they require a concrete foundation? **See Addendum No. 4.**
41. I was interested in putting together a substitution request for the sports lighting package. Can you please let me know what steps I need to take for our package to be considered as an approved equal? **No sports lighting substitutions shall be accepted.**
42. Written under SUPPLEMENTAL GENERAL PROVISIONS OF BID AND CONTRACT, in Section 3 "Scope of Work Summary" Part F. 3.), Bid Documents indicate to, "Construct of a pad and site preparations for a pre-fabricated restroom building". Also, drawing No S101 indicates (see below) "Pre-fabricated bldg. by Others." Under specification Section SECTION,130000 - PREFABRICATED RESTROOM BUILDING, it is not clear that General Contractor is responsible for the procurement of the pre-fabricated building. Please clarify. **Yes, the Contractor shall be responsible for the procurement of the pre-fabricated building in accordance with specifications.**
43. In fact that the General Contractor is responsible for the procurement of the pre-fabricated building, The specified manufacture, Public Restroom Company has provided a lead time of 260 days after approved submittals. This will exceed the 160-day duration of the project. How will Calvert County address this concern and will The General Contractor need to carry additional general conditions for the additional time? **The project duration shall be established according to the Milestone Schedule submitted to Calvert County Government with bid submission, not to exceed 300 calendar days. See Addendum No. 4, respectively.**
44. Drawing C402 depicts the new 3" and 2" water lines but does not specify as to what kind of PVC is required. What kind of PVC is to be used for the new 3" and 2" water lines? **See response to question #17.**
45. Sheet C401 and C402 - 2" Water service to proposed building does not indicate a meter pit assembly. The Restroom Building Manufacturer has indicated they do not have an interior meter setting. Is an exterior buried meter assembly/pit required? **No meter assembly or pit is required.**

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46. Specification Section 130000 - Proposed Restroom Building will be delivered pre-plumbed and pre-wired. Will a plumbing permit be required to connect the water and sewer to the proposed restroom building? Water and sewer line installation up to 5ft of building does not require a plumbing permit. Please advise. **The Contractor shall obtain plumbing permit(s) per existing County regulations.**
47. Specification Section 130000 - Proposed Restroom Building will be delivered pre-plumbed and pre-wired. Will a second electric permit be required for connecting electrical service to the proposed restroom building or can it be done under one permit for all the project electrical work. **The Contractor shall obtain electrical permit(s) per existing County regulations.**
48. Sheet C202 Detail 6 - Detail indicates gutter pan width of 1'-6". Typical County gutter pan width is 12". Please advise. **Use standard detail RD-19A Type "A" Curb with a 1'-0" wide gutter pan.**
49. Sheet C404 Deep Absorption Trench Piping - Do the 1/4" perforations in the 1-1/4" lateral require a snap on diffuser at every perforation for flow dispersion? **No, this is not required.**
50. Specification Section 334200 Paragraph 2.1- Please confirm HDPE storm pipe is interior smooth wall pipe and joints are watertight not soil tight. **This shall be smooth interior pipe with soil tight couplings.**
51. Sheet C404 Diversion Vault- Please indicate the type of operator required for the ball valves. **Manual operation.**
52. Sheets E.5.1 Note 5 - Please provide a panel schedule for the Mini Powerzone to include breakers needed for the equipment being supplied from the Mini Powerzone. **See Addendum No. 4 for schedule.**
53. Sheets E-2.1 & E-5.1 - Please indicate if the Mini Power zone panel is constructed of 304 or 316 stainless steel. **304 Stainless Steel.**
54. Sheet E-5.1 - Please provide specifications for all required parking lot site fixtures and foundation requirements for the parking lot light poles. **See Addendum No. 4.**
55. Sheet E-5.1 - Please provide detailed specifications for the Musco Control Panel and light fixtures. **Musco light fixture information can be found on Sheet E-5.1. Additional specifications are to be supplied by the manufacturer.**
56. Sheet E-5.1 - Indicates Panel LPC feeds power to the Musco Control Panel and the Musco Control Panel distributes power to court lighting fixtures. Sheet E-7.1 panel schedule indicates court lighting fixtures are directly fed from proposed panel LPC and the Musco Control Panel is directly fed from existing panel RPA. Please advise of the power source to Musco light fixtures and how panel integration is achieved. Also conduit size and wire size need to be clarified. **The Musco control panel consists of contactors. Power to the lights is routed from panel LPC through the control panel and to the lights. The Panel requires control voltages, which is the circuit in panel RPA.**
57. Sheet E-5.1 - Please provide mounting details for the Musco Control Panel and foundation requirements for Musco Light Poles. **See Addendum No. 4.**
58. Sheets E-2.1 Notes 1 & 2 - States 60 amp single phase breakers are required for pump station and Pretreatment blower. Sheet C403 states duplex pumps are 3 phase 230 volt. Please advise is power to the pumps single or 3 phase? Additionally please coordinate voltage and phase requirements for the pretreatment blower. **Refer to panel schedule in Addendum No. 4 for circuits. Provide local 60A NFSS as disconnects for equipment.**
59. Sheet C403 are seal offs and explosion proof connections required at the duplex pumping station and blower locations? **The seal does not have to be explosion proof when it is applied between a Class I, Division 2 area and an unclassified location.**

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60. Sheet E-2.1 & E-5.1 - Please indicate on plans Class I division 1 or 2 rated electrical connection areas. **Class 1 is not required for scope of work shown on E-2.1 and E-2.5. Work related to pumping station and blower tank are as specified in those divisions of work.**
61. Sheet E-5.1 New Work - Power Riser Diagram; Indicates power is obtained from existing panel MDPA to feed the proposed restroom, sheet 7.1 Panel MDPA does not indicate a breaker to feed the proposed restroom building. Please advise and revise the panel schedule to include a beaker for the restroom and provide size of the breaker. **Provide 3P60A breaker in panel MDPA to feed restroom building. Feeder size noted in transformer schedule.**
62. Sheet E-5.1 New Work - Power Riser Diagram; Transformer T-2 and disconnect are shown being located inside the proposed restroom building. Specified Building manufacturer has confirmed that they need to be installed externally. Please provide specifications for a weatherproof enclosed transformer and how to mount and where to mount the equipment. **Relocate equipment to exterior of building (assume within 10 feet of electrical panel). Final location will need to be determined in the field. Provide equipment in NEMA 3R enclosures for equipment.**
63. Sheet C301 structure OS-1 - Is indicated as a 96" diameter precast manhole. Sheet C506 indicates the same structure but is a square structure with 2 frame covers, 2 sets of ladder rungs, piped baffle wall and a trash rack. Please confirm the structure OS-1 is to be constructed in accordance with sheet C506 as detailed. **OS-1 Shall be constructed in accordance with Sheet C506.**
64. Sheet C301 structure OS -1 - Please provide specifications for 12" Cap with 4" Orifice. Provide the type of pipe and cap required. **12" Pipe shall be Sch. 40 PVC pipe with a Sch. 40 PVC cap. A 4" hole drilled into the invert of the Sch 40 PVC cap is the Orifice, placed on the 12" pipe with the 4" orifice located at the bottom.**
65. Sheet C507 Observation Well Detail - Indicates the bottom of the observation well to be embedded in a concrete cast in place pad. On previous Calvert County projects a fabricated galvanized pipe stand has been required. Please confirm that a galvanized pipe stand would be acceptable in-lieu of cast in place concrete. **A galvanized 1' x 1' by 1/4" pipe stand is an acceptable equivalent.**
66. Sheets C205 and C303 - ACO K-300 Trench Drain: Please provide required load rating for proposed TD200, TD300 and TD400, additionally please provide specifications for the type of grate required at each location and material of construction. Please advise will TD200 and TD300 trench drains require the same loading requirements as TD400 which is subjected to vehicular traffic. **See Addendum No. 4.**
67. Sheet C505 - Please provide thickness of inflow stone and identify it as either Class 0 or I. **Rip-Rap Class '0' 4" to 7" Stone. L= 13', W=4' Th = 19". Also, to include non-woven geotextile under and around Rip-Rap.**
68. Drawing C402 depicts the new 3" and 2" water lines but does not specify as to what kind of PVC is required. What kind of PVC is to be used for the new 3" and 2" water lines? **See response to Question #17.**
69. Sheet C205 - Please provide detail of the concrete work required for casting in a tree grate frame. Is the frame just cast in the sidewalk to create an opening? **Tree Grate frame shall be angle stock perimeter frame set into a 6"x 6" concrete that wraps around all (4) sides. See Addendum No. 4., respectively.**
70. We would like to qualify the following materials for the project. Please see attachments A and B of this Questions & Answers/Clarification document for substitution requests. **The substitution requests in Attachments A and B are approved. Please see Addendum No. 4, respectively.**
71. Page 1.4 in ITB document item #6 Subcontractor and Supplier Form, please clarify where form can be found in documents. **Page 6.1.**
72. Please clarify the size of the sewer pipe. On sheet C401 it is 6" SDR 35 and sheet C402 it is 8" SDR 35. **See response to question #18.**

CONTRACTOR'S LEGAL BUSINESS NAME: \_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

73. Please clarify the section around the restroom building. Sheet C-201 looks like concrete, but the detail N-4 calls for asphalt paving. A1.1 calls for a concrete sidewalk too. **The section around the restroom building is to be concrete walk; see detail #5 on site details.**
74. Please confirm that sheet C201 detail N-27 "EV charging for future project" is not a part of this bid package. **Confirmed that N-27 is not part of this bid package. The Electric vehicle charging stations are to be installed as a future separate project.**
75. Is temporary fence required for this project? If so, please provide the limits of the temporary fence for accurate footage and cost. Should we assume the LOD boundary for temporary fence footage? **Yes, and yes.**
76. Is a temporary common field office required for this project? Please clarify. **Yes, Field Office required pursuant to specification section 015000.**
77. In regard to the deductive alternate, will the tennis court paving underdrain (Sheet C205 – PVC pipe, stone and fabric) be deducted along with the other items listed on the sketch/list provided? **Yes, the paving underdrain is to be deducted.**
78. Sheet C702; Phase 2 - Sequence of Construction, No 18 - Please advise is proposed soil stabilization matting type, temporary(degradable) or permanent for slopes greater than 4:1? If material specifications differ from details B-4-6-D and B-4-6-B on sheet C703 please provide specifications for the required matting. **Permanent soil stabilization matting control shall be used on slopes > 4:1 and swales.**
79. How many courts are to be striped U-10? **4.**
80. Is paving fabric required as requested in the Sample Verification spec'd in the Tennis Court Surfacing? **No.**
81. Is there an escalator clause included due to future MD SHA Liquid Asphalt prices? **No. Contractor shall include all escalations within the bid price.**

CONTRACTOR'S LEGAL BUSINESS NAME: \_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

ATTACHMENT A

**SUBSTITUTION  
REQUEST**  
(During the Bid Period)

**CSI Form 1.5C**

Project: Dunkirk District Tennis Court Complex Construction Substitution Request Number: \_\_\_\_\_  
Dunkrk, MD From: Jon Allmond, Mid Atlantic Asphalt

To: Taylor Smith, Cavert County Date: 3/09/2023  
taylor.smith@calvertcountymd.gov 4105351600 A/E Project Number: \_\_\_\_\_

Re: Tennis Court Surfacing Contract For: Calvert County

Specification Title: SPORTMASTER® Tennis Line Paint Description: Tennis Line Paint  
 Section: 321218 Page: 283 Article/Paragraph: Part 3.8 0.1

Proposed Substitution: SPORTMASTER® Tennis Line Paint  
 Manufacturer: SPORTMASTER® Sport Surfaces Address: 2520 South Campbell St Sandusky, OH 44870 Phone: (800) 395-7325  
 Trade Name: SPORTMASTER® Tennis Line Paint Model No.: NA

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Jon Allmond

Signed by: *Jon Allmond*

Firm: Mid Atlantic Asphalt

Address: 624 N Hammonds Ferry Rd  
Linthicum Heights, MD 21090

Telephone: 410-999-1263

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

Supporting Data Attached:  Drawings  Product Data  Samples  Tests  Reports  \_\_\_\_\_



ATTACHMENT A



T/C White Line Paint

CMT - 50

Revised: 4/07

**1. PRODUCT NAME:**  
T/C White Line Paint

**2. MANUFACTURER:**  
ThorWorks Industries, Inc.  
2520 S. Campbell St.  
Sandusky, OH 44870  
Phone: 800-395-7325  
Fax: 419-626-5477  
www.thorworks.com

**Additional Plant Locations:**  
SealMaster has a nationwide network of manufacturing and distribution facilities.

Phone 1-800-395-7325 or visit www.sealmaster.net to find the location near you.

**3. PRODUCT DESCRIPTION & BENEFITS:**  
T/C White Line Paint is a 100% acrylic emulsion paint.

**Color:** Available in white.

**Uses:** Line marking on tennis courts, running tracks, and other asphalt or concrete pavement surfaces.

**4. SURFACE PREPARATION:**  
Pavement surface must be cleaned entirely of dust, dirt, debris and all loose material. If using T/C White Line Paint on a new, uncoated surface, allow adequate curing time before application.

**5. MIXING PROCEDURES:**  
T/C White Line Paint can be rolled, brushed or sprayed with low pressure spraying equipment. To assure crisp lines, it is advisable to use a high quality tape to mask lines. Remove tape as soon as T/C White Line Paint has dried. T/C White Line Paint can be modified to match the exact texture of the court surface by adding and 80 to 100 mesh silica sand.

**6. IMPORTANT:**  
Stir before using. Temperatures must be above 50°F both during application and for a period of at least 24 hours after application. Do not apply if rain is imminent or forecast. Keep from freezing. Close container when not in use. On outdoor concrete surfaces, assure

adequate and functional perimeter drains as well as a sound vapor barrier beneath the slab.

**7. DRYING TIME:**  
Thirty to sixty (30 to 60) minutes under optimum drying conditions. Indoor applications are substantially affected by temperature and available ventilation and will dry more slowly.

**8. COVERAGE:**  
500 to 600 lineal feet of 2-inch line per gallon.

**9. CAUTION:**  
Do not store in direct sunlight or where temperatures exceed 100°F. Do not apply if rain is imminent or forecast. Keep from freezing. Close container when not in use.

**10. WARRANTY:**  
The statements made on this technical bulletin are believed to be true and accurate, and are intended to provide a guide for approved construction practices. Manufacturer does not make, nor does it authorize any agent or representative to make any warranty, express or implied, concerning this material as workmanship, weather, construction, equipment utilized

and other variables affecting results are all beyond our control. Manufacturer warrants only that the material conforms to product specifications and any liability to the buyer or user of this product is limited to the replacement value of the product only. In no event shall Manufacturer be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or equipment furnished or work performed. Manufacturer shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.

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ThorWorks Industries, Inc.  
P.O. Box 2277  
Sandusky, OH 44870

Phone: 1-800-326-1994  
FAX: 1-419-626-5477

[www.sportmaster.net](http://www.sportmaster.net)

**Product Data:**

Type .....	Acrylic Emulsion
Weight per gallon at 77°F .....	10.5 ± .5 lbs.
% Non Volatile Material.....	49 ± 2
Odor .....	Ammonia
Flammability.....	Non-Flammable
Flash Point.....	None
Storage Life .....	One Year

T/C White Line Paint  
CMT - 50

SportMaster  
April 2007

SPORT SURFACING

ATTACHMENT B

**SUBSTITUTION  
REQUEST  
(During the Bid Period)**

**CSI Form 1.5C**

Project: Dunkirk District Tennis Court Complex Construction Substitution Request Number: \_\_\_\_\_  
Dunkrk, MD From: Jon Allmond, Mid Atlantic Asphalt

To: Taylor Smith, Cavert County Date: 3/09/2023  
taylor.smith@calvertcountymd.gov 4105351600 A/E Project Number: \_\_\_\_\_

Re: Tennis Court Surfacing Contract For: Calvert County

Specification Title: Tennis Court Surfacing Description: Acrylic Tennis Court System  
 Section: 321218 Page: 283 Article/Paragraph: Part 2. 2.4

Proposed Substitution: SPORTMASTER® Neutral Concentrate, Acrylic Resurfacer, ColorPlus  
 Manufacturer: SPORTMASTER® Address: 2520 South Campbell St Sandusky, OH 44870 Phone: (800) 395-7325  
 Trade Name: SPORTMASTER® Neutral Concentrate, Acrylic Resurfacer, ColorPlus Model No.: NA

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Jon Allmond

Signed by: *Jon Allmond*

Firm: Mid Atlantic Asphalt

Address: 624 N Hammonds Ferry Rd  
Linthicum Heights, MD 21090

Telephone: 410-999-1263

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

Supporting Data Attached:  Drawings  Product Data  Samples  Tests  Reports  \_\_\_\_\_



CMT - 3

# Acrylic Resurfacer

Revised: 7/09

**1. PRODUCT NAME:**

Acrylic Resurfacer

**2. MANUFACTURER:**

ThorWorks Industries, Inc.  
 2520 S. Campbell St.  
 Sandusky, OH 44870  
 Phone: 800-326-1994  
 Fax: 419-626-5477  
 www.thorworks.com

Additional Plant Locations:  
 SealMaster has a nationwide network of manufacturing and distribution facilities.

Phone 1-800-395-7325 or visit  
 www.sealmaster.net to find the location near you.

**3. PRODUCT DESCRIPTION & BENEFITS:**

SportMaster Acrylic Resurfacer is 100% acrylic emulsion resurfacer designed for on site mixing with silica sand. Acrylic Resurfacer reduces surface porosity allowing for application of an even, full depth color, playing surface.

**4. USES:**

SportMaster Acrylic Resurfacer is applied to asphalt or concrete surfaces in preparation for SportMaster color finish systems.

Color: Available in Black and Neutral.

**5. SURFACE PREPARATION:**

Pavement surface must be cleaned entirely of dust, dirt, debris and all loose materials. New asphalt must cure 30 days before application. Repair of pavement surface defects, depressions and cracks must be completed prior to application. All repairs must be flush and smooth to adjoining surfaces.

**6. MIXING PROCEDURES:**

• For Use As A Coating - Use the following mix design (based on 55 gallons of Acrylic Resurfacer for ease of calculation):

Acrylic Resurfacer.....55 Gallons  
 Silica Sand (60 - 80 mesh).....800 lbs.  
 Water.....33 Gallons

• For Use As A Patching Material - Acrylic Resurfacer may be modified with the following mix design. Patching Mix for applications up to 1/4" lifts:

Acrylic Resurfacer.....10 Gallons  
 Water.....5 Gallons  
 Sand.....200 lbs.  
 Cement.....1/2 Gallon  
 (Always mix cement thoroughly with a small amount of water before adding to patching mix)

NOTE: Silica Sand used in patching should be AFS fineness 30 to 40 mesh.

**7. APPLICATION:**

Apply Acrylic Resurfacer with a soft rubber squeegee. Apply successive coats in cross directions. Scrape all rough spots and ridges before applying the next coat. Apply one or two coats, depending on surface porosity and condition. Two coats are recommended on new or uncoated asphalt.

**8. IMPORTANT:**

Stir material thoroughly before using. Temperature must be a

minimum of 50°F. and rising before application. Do not apply when rain is imminent or forecast. Keep from freezing. Close container when not in use.

**9. DRYING TIME:**

30 to 60 minutes under optimum drying conditions.

**10. COVERAGE:**

Yield calculations are based on undiluted gallons of SportMaster Acrylic Resurfacer and will vary according to surface texture and porosity within the limits below:

.07 to .09 gallons per square yard per coat.

**11. CAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. Do not take internally. If swallowed, call a physician immediately. In case of contact with eyes, flush immediately with water for 15 minutes and call a physician. When not in use, keep containers tightly closed and upright to prevent leakage.

Chemical Characteristics

	% Weight (minimum)
Acrylic Emulsion	44.0
Hiding Pigment	2.0
Mineral Inert Fillers	5.0
Film Formers, Additives	.2
Water	45.0

Product Data

Type	Acrylic Emulsion
Pounds per Gallon @ 77°F.	8.5 ± .5
% Non Volatile Material	27.5 ± 5.0
Odor	Slight Ammonia
Flammability	Non-Flammable
Flash Point	None
Storage Life	One Year

Acrylic Resurfacer  
CMT-3

SealMaster  
JULY 2009  
(Supersedes CMT-3 (7/04), CMT-3 (4/05))

SPORT SURFACING

ATTACHMENT B



CMT - 39

# ColorPlus

Revised: 6/08

**1. PRODUCT NAME:**  
ColorPlus

**2. MANUFACTURER:**  
 ThorWorks Industries, Inc.  
 2520 S. Campbell St.  
 Sandusky, OH 44870  
 Phone: 800-326-1994  
 Fax: 419-626-5477  
 www.thorworks.com

**Additional Plant Locations:**  
 SealMaster has a nationwide network of manufacturing and distribution facilities.

Phone 1-800-395-7325 or visit  
 www.sealmaster.net to find the location near you.

**3. PRODUCT DESCRIPTION & BENEFITS:**

SportMaster ColorPlus is a highly concentrated water based pigment dispersion designed for mixing with SportMaster Neutral Concentrate.

**Color:** Standard colors are: Forest Green, Light Green, Dark Green, Beige, Brown, Red, Maroon, Tournament Purple, Gray, Blue, Lt. Blue, Dove Gray, and Ice Blue.

**4. MIXING PROCEDURES:**

Mix in the following order for 55 gallon drum of Neutral Concentrate:

- SportMaster Neutral Concentrate.....55 gallons
- SportMaster ColorPlus.....4 gallons
- Water.....28 - 33 gallons
- Silica Sand (80 to 90 mesh AFS).....400 lbs.

Mix in the following order for 30 gallon keg of Neutral Concentrate:

- SportMaster Neutral Concentrate.....30 gallons
- SportMaster ColorPlus.....2 gallons
- Water.....15 - 18 gallons
- Silica Sand (80 to 90 mesh AFS).....200 lbs.

**Note:** Mix thoroughly to ensure complete dispersion of ColorPlus.

**5. APPLICATION:**

Apply mixed coating with a soft rubber squeegee. A minimum of two coats are recommended.

**6. IMPORTANT:**

Stir material thoroughly before using. Temperature must be a minimum of 50° F. and rising before application. Do not apply when rain is imminent or forecast. Keep from freezing. Close container when not in use.

**7. CAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. Do not take internally. If swallowed, call a physician immediately. In case of contact with eyes, flush immediately with water for 15 minutes and call a physician. When not in use, keep containers tightly closed and upright to prevent leakage.

**8. WARRANTY:**

The statements made on this technical bulletin are believed to be true and accurate, and are intended to provide a guide for approved construction practices. Manufacturer does not make, nor does it authorize any agent or representative to make any warranty, express or implied, concerning this material as workmanship, weather, construction, equipment utilized and other variables affecting results are all beyond our control. Manufacturer warrants only that the material conforms to product specifications and any liability to

the buyer or user of this product is limited to the replacement value of the product only. In no event shall Manufacturer be liable for any injury, loss or damage, either direct or incidental, special or consequential, however arising, in connection with material or equipment furnished or work performed. Manufacturer shall not, in any manner, be liable for any defects, variations or change in condition in the substructure over which its products are installed.

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ThorWorks Industries, Inc.  
 P.O. Box 2277  
 Sandusky, OH 44870

Phone: 1-800-326-1994  
 FAX: 1-419-626-5477

**www.sportmaster.net**

**Product Data:**

Type.....	Water Based Pigment Dispersion
Flammability.....	Non Flammable
Flash Point.....	None
Colors.....	Several Available

ColorPlus  
 CMT-39

SealMaster  
 June 2008  
 (Supersedes CMT-39 (4/01), CMT-39 (12/02), CMT-39 (7/04))

SPORT SURFACING



# Neutral Concentrate

CMT - 38

Revised: 4/05

**1. PRODUCT NAME:**  
Neutral Concentrate

**2. MANUFACTURER:**  
ThorWorks Industries, Inc.  
2520 S. Campbell St.  
Sandusky, OH 44870  
Phone: 800-326-1994  
Fax: 419-626-5477  
www.thorworks.com

**Additional Plant Locations:**  
SealMaster has a nationwide network of manufacturing and distribution facilities.

Phone 1-800-395-7325 or visit  
www.sealmaster.net to find the location near you.

**3. PRODUCT DESCRIPTION & BENEFITS:**

SportMaster- Neutral Concentrate is a 100% acrylic emulsion coating formulated for tennis courts and other sport and recreational pavement surfaces. Neutral Concentrate is designed to be mixed with SportMaster ColorPlus pigment dispersion to achieve desired color.

**Uses:** Tennis courts, basketball courts, and other multipurpose pavement surfaces.

**Color:** Neutral. Desired color is achieved by mixing ColorPlus pigment dispersion with Neutral Concentrate.

**Surface Preparation:** Pavement surface must be cleaned entirely of dust, dirt, and debris. Repair of pavement surface defects, depressions and cracks must be completed prior to application. All repairs must be flush and smooth to adjoining surfaces.

**New asphalt surfaces** must cure 30 days prior to application. It is recommended that any uncoated asphalt surface receive one or more coats of Acrylic Resurfacer (Technical Bulletin CMT - 3) as required by surface roughness and porosity to provide a smooth, dense underlayment for application of color coatings.

**New concrete surfaces** must cure

28 days prior to application. Concrete surfaces should have a medium broom finish or similar roughened texture. Etch surface with muriatic or phosphoric acid and apply SportMaster Acrylic Adhesion Promoter (Technical Bulletin CMT - 21).

**4. MIXING PROCEDURES:**  
Mix in the following order for 55 gallon drum of Neutral Concentrate:

- SportMaster Neutral Concentrate.....55 gallons
- SportMaster ColorPlus.....4 gallons
- Water.....28 - 33 gallons
- Silica Sand (80 to 90 mesh AFS).....400 lbs.

Mix in the following order for 30 gallon keg of Neutral Concentrate:

- SportMaster Neutral Concentrate.....30 gallons
- SportMaster ColorPlus.....2 gallons
- Water.....15 - 18 gallons
- Silica Sand (80 to 90 mesh AFS).....200 lbs.

**Note:** Mix thoroughly to ensure complete dispersion of ColorPlus.

**5. APPLICATION:**  
Apply mixed coating with a soft rubber squeegee. A minimum of two coats are recommended.

**6. IMPORTANT:**  
Stir material thoroughly before using. Temperature must be a minimum of 50°F. and rising before application. Do not apply when rain is imminent or forecast. Keep from freezing. Close container when not in use.

**7. COVERAGE:**  
Yield calculations are based on undiluted gallons of Neutral Concentrate and vary according to surface texture and porosity within the limits below:

.05 to .07 gallon per square yard per coat

**8. DRYING TIME:**  
Neutral Concentrate dries in 30 to 60 minutes under optimum drying conditions. Allow each coat of material to dry thoroughly before applying successive coats. Low ambient or low surface temperature and high humidity increase drying time. Allow coating to cure for 48 hours before opening up for play.

**9. CAUTIONS:**  
KEEP OUT OF REACH OF CHILDREN. Do not take internally. If swallowed, call a physician immediately. In case of contact with eyes, flush immediately with water for 15 minutes and call a physician. When not in use, keep containers tightly closed and upright to prevent leakage.

**Product Data:**

Type.....	Acrylic Emulsion
Pounds per Gallon.....	8.8 ± .5
Odor.....	Slight Ammonia
Flammability.....	Non-Flammable
Flash Point.....	None

Neutral Concentrate  
CMT-38

SealMaster  
April 2005  
(Supersedes CMT-38 (4/01), CMT-38 (1/2/02), CMT-38 (7/04))

SPORT SURFACING