
**Central Montcalm Public School
Board of Education**

1480 S. Sheridan Rd. / P.O. Box 9 Stanton, Michigan 48888
Phone: (989) 831-2000 Fax: (989) 831-2010

www.central-montcalm.org

Memo

To: Interested Contractors
From: Valerie Palethorpe
Director of Operations
Date: April 30, 2010
Re: Invitation to bid for purchase and installation of telescoping gym seating

INVITATION TO BID

Central Montcalm Public School is accepting bids for purchase and installation of telescoping gym seating at Central Montcalm Middle School. This proposal will consist of furnishing all materials, labor and supervision. Bidders may obtain project specifications and bid documents from Central Montcalm Public School Bus Garage office, 1480 S. Sheridan Road, Stanton, Michigan 48888.

Sealed proposals for the purchase and installation of telescoping gym seating project are due **May 17, 2010 at 10:15 a.m.** Proposals must be delivered to Valerie Palethorpe, Central Montcalm Public School, 1480 S. Sheridan Road, P O Box 9, Stanton, Michigan 48888, clearly marked "Telescoping Seating." Bids will be publicly opened and read aloud at **10:15 a.m., on May 17, 2010.**

Central Montcalm Public Schools reserves the right to waive any irregularities, reject any or all bids, or accept any bid when in the opinion of the Owner, such action will best serve the District's interest.



CMMS Telescoping Gym Seats
Bid Request Form

Bid Due Date: **Sealed** bids due on or before May 17, 2010 at 10:00 a.m.

Bids addressed to: Valerie Palethorpe, Central Montcalm Public Schools, 1480 S. Sheridan Road, P O Box 9, Stanton, Michigan 48888 and clearly marked **“Telescoping Gym Seats”**

Opening location: Board of Education Office, CMMS, 1480 S. Sheridan Road, Stanton, Michigan

VENDORS: Each proposal must be accompanied by a bid bond of not less than 5% of the base bid. Contractor must provide Certificate of Insurance, together with 100% performance and labor bond, with your bid. Please provide any detailed warranty information available with your bid.

The Central Montcalm Public Schools reserves the right to waive any irregularities, reject any or all bids, or accept any bid when in the opinion of the Owner, such action will best serve the district's interest.

Project schedule: Purchase and installation yet this summer, contingent upon the gymnasium floor replacement schedule. Please indicate number of days to complete the project.

AGREEMENT: The undersigned, having familiarized themselves with the local conditions affecting the cost of the work and having opportunity to examine the site and the bid documents prepared by the District, hereby propose to furnish all labor, material, equipment, taxes and services required for the proper completion of this project as detailed in the bid documents and noted below. The project will meet all ADA requirements, and any other applicable regulatory laws.

DESCRIPTION	PRICE
Furnish, Deliver and Install Gym Seats	
Alternate: demolition and removal of existing Gym Seats, including dumpster	
Alternate: self-storing end curtains to cover in open position as well as closed position	

Valerie Palethorpe, Director of Operations
989-831-2240
Fax: 989-831-2010

TELESCOPING GYM SEATS SPECIFICATIONS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Telescoping Gym Seating includes, either manually or electrically operated systems of multiple-tiered seating rows comprising of seat, deck components, understructure that permits closing without requiring dismantling, into a nested configuration for storing or for moving purposes.
 - 1. Typical applications include the following:
 - a. Wall Attached Telescoping Gym Seats.
 - 2. Owner shall provide electrical power to a location under each bank of bleachers including a fusible disconnect and junction box for termination of electrical wiring and connections for electrically operated Telescoping Gym Seats. The bleacher contractor shall provide the wiring from the motors to this junction box.
 - a. Power supply shall be 120/208 Volts 3 phase 60 HZ

1.03 MANUFACTURER'S SYSTEM ENGINEERING DESCRIPTION

- A. Structural Performance: Engineer, fabricate and install telescopic gym seating systems to the following structural loads without exceeding allowable design working stresses of materials involved, including anchors and connections. Apply each load to produce maximum stress in each respective component of each gym seat unit.
 - 1. Design Loads: Comply with NFPA 102, 1992 Edition, Chapter 5 for design loads.
- B. Manufacturer's System Design Criteria:
 - 1. Gymnasium seat assembly; Design to support and resist, in addition to it's own weight, the following forces:
 - a. Live load of 120 lbs per linear foot [162.69 N/m] on seats and decking
 - b. Uniformly distributed live load of not less than 100 lbs per sq. ft. [135.58N/m] of gross horizontal projection.
 - c. Parallel sway load of 24 lbs. [32.53 N/m] per linear foot of row combined with (b.) above
 - d. Perpendicular sway load of 10 lbs. [13.56 N-m] per linear foot of row combined with (b.) above
 - 2. Hand Railings, Posts and Supports: Engineered to withstand the following forces applied separately:
 - a. Concentrated load of 200 lbs. [90.72 kg] applied at any point and in any direction.
 - b. Uniform load of 50 lbs. per foot [.344 N/mm²] applied in any direction.
 - 3. Guard Railings, Post and Supports: Engineered to withstand the following forces applied separately:
 - a. Concentrated load of 200 lbs. [90.72 kg] applied at any point and in any direction along top rail.
 - b. Uniform load of 50 lbs. per foot [.344 N/mm²] applied horizontally at top rail and a simultaneous uniform load of 100 lbs. per foot [.689 N/mm²] applied vertically downward.

4. Member Sizes and Connections: Design criteria (current edition) of the following shall be the basis for calculation of member sizes and connections:
 - a. AISC: Manual of Steel Construction
 - b. AISI: Specification for Design of Cold Formed Steel Structural Members
 - c. AA: Specification for Aluminum Structures
 - d. NFOPA: National Design Guide For Wood Construction.

1.04 SUBMITTALS

- A. Section Cross-Reference: Required submittals in accordance with "Conditions of the Contract" and Division 1 General Requirements sections of this "Project Manual."
- B. Project Data: Manufacturer's product data for each system. Include the following:
 1. Project list: Ten (10) seating projects of similar size, complexity and in service for at least five (5) years.
 1. Deviations: List of deviations from these project specifications, if any.
- C. Shop Drawings: Indicate Telescoping Gym Seat assembly layout. Show seat heights, row spacing and rise, aisle widths and locations, assembly dimensions, anchorage to supporting structure, material types and finishes.
 1. Wiring Diagrams: Indicate electrical wiring and connections.
- D. Samples: Seat materials and color finish as selected by Architect from manufacturers offered color finishes.
- E. Manufacturer Qualifications: Certification of insurance coverage and manufacturing experience of manufacturer, and copy of a telescopic load test to all loads described in 1.03 above, observed by a qualified independent testing laboratory, and certified by a registered professional structural engineer verifying the integrity of the manufacturer's geometry design and base structural assumptions.
- F. Installer Qualifications: Installer qualifications indicating capability, experience, and official Certification Card issued by manufacturer of telescopic seating.
- G. Engineer Qualifications: Certification by a professional engineer registered in the state of manufacturer that the equipment to be supplied meets or exceeds the design criteria of this specification.
- H. Operating/Maintenance Manuals: Provide to Owner maintenance manuals. Demonstrate operating procedures, recommended maintenance and inspection program.
- I. Warranty: Manufacturers standard warranty documents.

1.05 QUALITY ASSURANCE

- A. Seating Layout: Comply with current NFPA 102 Standard for Assembly seating, Tents, and Membrane Structures, and specifically with Folding and Telescopic Seating, except where additional requirements are indicated or imposed by authorities having jurisdiction.
- B. Welding Standards & Qualification: Comply with AWS D1.1 Structural Welding Code - Steel and AWS D1.3 Structural Welding Code - Sheet Steel.

- C. Insurance Qualifications: Mandatory that each bidder submit with his bid an insurance certificate from the manufacturer evidencing the following insurance coverage:
 - 1. Workers Compensation - including Employers Liability with the following limits:
 - \$500,000.00 (US) Each Accident
 - \$500,000.00 (US) Disease - Policy Limit
 - \$500,000.00 (US) Disease - Each Employee
 - 2. Commercial General Liability - including premises/ operations, independent contractors and products completed operations liability. Limits of liability shall not be less than \$5,000,000.00 (US).
- D. Manufacturer Qualifications: Manufacturer who has a minimum of 40 years of experience manufacturing telescoping gym seats and can demonstrate continual design enhancement and 25-year minimum product life-cycle support of telescopic seating.
- E. Installer Qualifications: Engage experienced Installer who has specialized in installation of telescoping gym seat types similar to types required for this project and who carries an official Certification Card issued by telescoping gym seat manufacturer.
- F. Engineer Qualifications: Engage licensed professional engineer experienced in providing engineering services of the kind indicated that have resulted in the successful installation of telescoping bleachers similar in material, design, fabrication, and extent to those types indicated for this project.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver telescopic gym seats in manufacturers packaging clearly labeled with manufacturer name and content.
- B. Handle seating equipment in a manner to prevent damage.
- C. Deliver the seating at a scheduled time for installation that will not interfere with other trades operating in the building.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Coordinate actual dimensions of construction affecting telescoping bleachers installation by accurate field measurements before fabrication. Show recorded measurements on final shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid delay of Work.

1.08 WARRANTY

- A. Manufacturer's Product Warranty: Submit manufacturer's standard warranty form for telescoping bleachers. This warranty is in addition to, and not a limitation of other rights Owner may have under Contract Documents.
 - 1. Warranty Period: **FIVE** years from Date of Acceptance.
 - 2. Beneficiary: Issue warranty in legal name of project Owner.
 - 3. Warranty Acceptance: Owner is sole authority who will determine acceptance of warranty documents.

1.09 MAINTENANCE AND OPERATION

- A. Instructions: Both operation and maintenance shall be transmitted to the Owner by the manufacturer of the seating or his representative.
- B. Service: Maintenance and operation of the seating system shall be the responsibility of the Owner or his duly authorized representative, and shall include the following:
 - 1. Operation of the Seating System shall be supervised by responsible personnel who will assure that the operation is in accordance with the manufacturer's instructions.
 - 2. Only attachments specifically approved by the manufacturer for the specific installation shall be attached to the seating.
 - 3. An annual inspection and required maintenance of each seating system shall be performed to assure safe conditions. At least biannually the inspection shall be performed by a professional engineer or factory qualified service personnel.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Manufacturer: Hussey Seating Company, U.S.A.

1. Product: MAXAM Telescopic Gym Seat System by Hussey Seating Company

- a. Model: MAXAM26 Series Telescopic Gym Seats, adjustable row spacing in two inch increments from 22 inches [559] to 26 inches [660].
- b. Aisle Type: foot level aisles, front steps, intermediate aisle steps.
- c. Seat Type: 10" Courtside Collection,
 - 1) Seat color finish: manufacturers 15 standard and 7 select colors for Courtside Collection
- d. Rail Type: Self-storing end rails, store-in-place aisle hand rails
 - 1.) Rail color finish: Standard black
- e. Operation: electrical power
 - 1) Electrical Power System: Integral power with pendant control

	BANK EAST:	BANK WEST:
a. Bank Length:	47'-6"	36'-6"
b. Aisle Widths:	(1) @ 3'-0" & (1) @ 4'-6"	(1) @ 4' 6"
c. Number of Tiers:	(9)	(9)
d. Row Spacing(s):	22"	22"
e. Row Rise:	9 5/8"	9 5/8"
f. Open Dimension:	16'-1" + front aisle step on floor	16'-1" -
g. Closed Dimension:	3'-5 7/8"	3'-5 7/8" -
h. Overall Unit Height:	7'- 10"	7'-10"
i. Net Capacity / Bench	239 seats (18"-wide)	209 Seats

- 5. Product Accessories: scorer's table, top seat filler, seat number indent, row letters indent in seat ends, self storing end curtains
- 6. Handicap Seating Provisions: Provide first tier modular recoverable Flex-rows with 9 first-tier recoverable spaces with adjacent companion seating which is integral part of the bleacher seats per requirements of (ADA) Americans with Disability Act.

B. Other Acceptable Manufacturers: Will be considered if in compliance with these specifications. Deviations must be submitted with bid in order that a fair and proper evaluation be made. Those bidders not submitting a list of deviations will be presumed to have bid as specified.

2.03 MATERIALS

- A. Continuous and robust wall buck attachment (partial wall bucks are not acceptable), cables or threaded rods are not allowed to be used for connections to wall buck.
- B. Plywood (5-ply) 5/8" thick decking shall be Grade AC Southern Yellow Pine with polyurethane coating. Polydeck is not an acceptable option because of the staining problems. The decking will be installed with tongue and groove and the grain perpendicular direction to the front of the bleacher, therefore no "H" connector is required as it is a dirt catcher.

- C. 2nd tier power is required as this allows for flex row throughout the continuous first row as well as allows for gym class seating at any time. It shall be always be available for operation in the open or closed position without the need to change from open to closed position without the need of any tools.
- D. Wheels for the rolling frames shall not be any smaller than 5" diameter x 1 1/2" wide.
- E. Provide a metal housing to protect the power frame drives and cover the chain drive from exposure.

2.04 UNDERSTRUCTURE FABRICATION

- A. Frame System:
 - 1. Wheels: Not less than 5" [127] diameter by 1 1/4" [32] with non-marring soft rubber face to protect wood and synthetic floor surfaces, with molded-in sintered iron oil-impregnated bushings to fit 3/8" [10] diameter axles secured with E-type snap rings.
 - 2. Lower Track: Continuous Positive Interglide System interlocks each adjacent CPI unit using an integral, continuous, anti-drift feature and through-bolted guide at front to prevent separation and misalignment. CPI units at end sections of powered banks and manual sections shall contain a Low Profile Posi-Lock LX to lock each row in open position and allow unlocking automatically. Provide adjustable stops to allow field adjustment of row spacings.
 - 4. Slant Columns: High tensile steel, tubular shape.
 - 5. Sway Bracing: High tensile steel members through-bolted to columns.
 - 6. Deck Stabilizer: High tensile steel member through-bolted to nose and riser at three locations per section. Interlocks with adjacent stabilizer on upper tier using low-friction nylon roller to prevent separation and misalignment. Incorporates multiple stops to allow field adjustment of row spacings.
 - 7. Deck Support: Securely captures front and rear edge of decking at rear edge of nose beam and lower edge of riser beam for entire length of section.
- B. Deck System:
 - 1. Section Lengths: Each bank shall contain sections not to exceed 25'-6" [7772] in length with a minimum of two supporting frames per row, each section.
 - 2. Nose beam and Rear Riser beam: Nose beam shall be continuously roll-formed closed tubular shape of ASTM A653 grade 40, Riser beam shall be continuously roll-formed of ASTM A653 grade 40. Nose and Riser beam shall be designed with no steel edges exposed to spectator after product assembly.
 - 3. Attachment: Through-Bolted fore/aft to deck stabilizers, and frame cantilevers.
 - 4. Decking: 5/8" [16]; MAXAM 26, 21 1/2" [546];
 - 5. Deck End Overhang: Not to exceed frame support by more than 5'-7" [1702].
 - 6. Seats: Bench seat posture pitched to the rear for spectator comfort. Seats and front risers shall have full-radiused comfort shaped edges.
 - 7. Seat Supports: Seat supports shall be through-bolted to seats, front risers, and noses and shall be provided in sufficient number to limit unsupported length of bench seat to 3'-0" [914].
- C. Plastic Seat System – Courtside Collection XC10 (10")

Hussey Courtside Collection Series embodies the latest leading edge innovations in linear telescopic seating modules. Courtside seats utilize a harmonious blend of advanced ergonomic principals, architecturally appealing design, safety, value and performance.

1. Seat Modules: 18" [457] long assembled, gas assisted injection-molded, high density, 100% recyclable HDPE (high density polyethylene) modules in monochromatic colors providing, dual textured scuff resistant 10" [254] wide seat surface with ½" [13] minimum interlock on seat and face. Unit structural tested to 600 lbs occupant load.

Courtside XC10 Seat Module

2. XC10 – 10" Comfort Profile
 - ✓ 10" wide continuous comfort curve style bench seat
 - ✓ Ergonomically contoured forward "waterfall" edge for enhanced spectator comfort and minimization of sensitive pressure point area, regardless of leg positioning.
 - ✓ Fore & Aft contoured seat surface for uniform support and minimize high pressure points under the buttocks.
 - ✓ Seat height ranges from deck to t/o seat range from 16-1/8" to 18-1/8"
 - ✓ 21-1/2" clear foot space area, regardless of leg positioning.
3. Integrally molded end caps at aisle end locations for clean finished appearance.
4. Optional: Custom color graphic logo design application for end cap insert.
5. Integrally molded recess pockets to accept seat number and row letters.
6. Integrally molded rear closure panel at back of seat to allow for "continuous clean sweep" of debris at deck level and minimized visibility of structural ribbing.
7. Seat Attachment: Each plastic seat module shall be securely anchored by a 12 ga steel clamp bracket that provides a steel-to-steel, through bolted attachment to the front nose beam of the bleacher. Attachment eliminates fore / aft movement of the seat module on the nose beam.

Compound contoured seats with fore/aft and horizontally contoured curves provide a "scaloped" surface area for maximum spectator comfort. Forward edge "waterfall" for enhanced spectator comfort and minimization of sensitive pressure point area, regardless of leg positioning.
 - ✓ Fore & Aft contoured seat surface for uniform support and minimize high pressure points under the buttocks.
 - ✓ Seat height ranges from deck to t/o seat range from 16-1/8" to 18-1/8"
 - ✓ 21-1/8" clear foot space area.
8. Bold contoured design lines for maximum architectural appeal and application with modern or traditional facility spaces.
9. Integrally molded end caps at aisle end locations for clean finished appearance.
10. Optional: Custom color graphic logo design application for end cap insert.

11. Integrally molded recess pockets to accept seat number and row letters.
12. Integrally molded rear closure panel at back of seat to allow for "continuous clean sweep" of debris at deck level and minimized visibility of structural ribbing.

Seat Attachment: Each plastic seat module shall be securely anchored by a 12 ga steel clamp bracket that provides a steel-to-steel, through bolted attachment to the front nose beam of the bleacher. Solid attachment of clamp to nose beam eliminates fore / aft movement of the seat module on the nose beam.

- A. Understructure: For rust resistance, steel understructure shall be finished on all surfaces with black "Dura-Coat" enamel. Understructure finish shall contain a silicone additive to improve scratch resistance of finish.
- B. Wear Surfaces: Surface subject to normal wear by spectators shall have a finish that does not wear to show different color underneath:
 1. Steel nosing and rear risers shall be pre-galvanized with a minimum spangle of G-60 zinc plating.
 2. Decking shall have use-surfaces to receive both a sealer coat and wear-resistant high gloss clear urethane finish.
- C. Railings: Steel railings shall be finished with powder-coated semi - gloss black or optional 15 standard colors to match MVP seat color.

2.07 FASTENINGS:

- A. Welds: Performed by welders certified by AWS standards for the process employed.
- B. Structural Connections: Secured by structural bolts with prevailing torque lock nuts, free-spinning nuts in combination with lock washers, or Riv-nuts in combination with lock washers.

2.06 ELECTRICAL OPERATION

- A. Integral Power: Furnish and install Hussey PF(1/2/3/4), an integral automatic electro-mechanical powered frame propulsion system, to open and close telescopic seating. Integral Power and Control System shall be Underwriters Laboratories, Inc. (UL) approved and listed.
 1. Operation shall be with a removable pendant control unit which plugs into seating bank for operator management of stop, start, forward, and reverse control of the power operation.
 2. Each Powered Frame unit shall consist of output shaft gear reducer with 6" [152] diameter x 4" [102] wide wheels covered with non-marring 1/2" [13] thick composite rubber. Reducers shall be fitted with 3 phase induction motors which will provide an average operating speed of (46/25) f.p.m [.23/ .12 M/s].
 3. Operating Loads: Each Powered Frame provides (220 / 550) lbs pull force [978 / 2446 N] which equals approximately (28 / 35) psi [.192 / .241 N/mm²] lateral force on the floor..
 - A. Power operation shall utilize a combination of contactors and limit switches to insure the wiring is not energized except during operation. Straight wired electric system is not allowed.

- B. Electrical: Seating Manufacturer shall provide all wiring within seating bank including pendant control.
- a. Each unit for PF(1/2/3/4) is power operated by a 1/2 horsepower, 1725 R.P.M., 208 Volts, 50/60 Hz., three phase 1.25 service factor motor. This motor draws a full load current of 2.2 amperes. Power supply required shall be 120/208 volts three phase 5 wire plus ground service with 20 amps. Motors, housing, and wiring shall be installed and grounded in complete accord with the National Electrical Code.
 - b. The owner shall provide required power source with no greater than 4% voltage drop at the seatings' junction box. The electrical contractor shall perform all wiring connections in junction box that are attached to or a part of the building
- C. Front Aisle Steps: Provide at each vertical aisle location front aisle step. Front steps shall engage with front row to prevent accidental separation or movement. Steps shall be fitted with four non-skid rubber feet each 1/2" [13] in diameter. Blow molded end caps shall have full radius on all four edges. Quantity and location as indicated.
- D. Non-Slip Tread: Provide at front edge of each aisle location an adhesive-backed abrasive non-slip tread surface.
- E. Foot Level Aisles: Provide deck level full width vertical aisles located as indicated.
- F. Intermediate Aisle Steps: Intermediate aisle steps shall be of boxed fully enclosed type construction. Blow molded end caps shall have full radius on all four edges. Step shall have adhesive-backed abrasive non-slip tread surface. Quantity and location as indicated.
- G. Front Rail: Provide not less than 30" [762] high above deck, steel rails with tubular supports and intermediate members designed with 4" [102] sphere passage requirements. Rails to be located at each required seating location.
- H. Self Storing End Rails: Provide steel self-storing 42" [1066] high above seat, end rail with tubular supports and intermediate members designed with 4" [102] sphere passage requirements.
- I. Scorer's Table: Provide one 8' [2438] x 15" [4572] scorer's table. Table top shall be tan high pressure laminate on 5/8" [16] balance veneer core with edge molding. Integral perimeter frame to include tubular folding steel legs permanently attached to top with screws.
- J. Top Seat Flush Filler: Provide at top seat level a flush filler board mounted between top seat and rear wall. Flush filler board shall be constructed of 4/4" nominal thickness Southern pine Grade "B & B" clear urethane finished.
- K. End Closure Curtains: Provide closure curtains fabricated of vinyl-coated 14oz Polyester fabric on open ends of telescopic seating. Curtains to be permanently attached to wall or rear closure panel and secured to individual rows of seating. Curtain to open with seating unit into taught secure configuration and fold automatically as seating unit closes.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify area to receive telescoping gym seats are free of impediments interfering with installation and condition of installation substrates are acceptable to receive telescoping gym seats in accordance with telescoping gym seats manufacturer's recommendations. Do not commence installation until conditions are satisfactory.

3.02 INSTALLATION

- A. Manufacturer's Recommendations: Comply with telescoping gym seats manufacturer's recommendations for product installation requirements.
- B. General: Manufacturer's Certified Installers to install telescoping gym seats in accordance with manufacturer's installation instructions and final shop drawings. Provide accessories, anchors, fasteners, inserts and other items for installation of telescoping gym seats and for permanent attachment to adjoining construction.

3.03 ADJUSTMENT AND CLEANING

- A. Adjustment: After installation completion, test and adjust each telescoping gym seats assembly to operate in compliance with manufacturer's operations manual.
- B. Cleaning: Clean installed telescoping gym seats on both exposed and semi-exposed surfaces. Touch-up finishes to restore damage or soiled surfaces.

3.04 PROTECTION

- A. General: Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer to ensure telescoping gym seats are without damage or deterioration at time of substantial completion.

END OF SECTION