SECTION 10503
DOUBLE TIER GEAR LOCKERS
WALL MOUNTED

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Design, fabrication and installation of wall mounted turnout gear lockers as specified herein.

1.2 RELATED SECTIONS

A. Division 00 Section "ARRA Grant Requirements" for "The Buy American Act" requirements as applicable.

B. Section 10: Metal Lockers.

C. Sections of Division 16: electrical as applicable.

1.3 SUBMITTALS

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

B. Shop Drawings: Submit manufacturer's shop drawings for each individual run of lockers.

C. Samples: Submit manufacturer's standard color samples.

D. Owner's Manual: Provide maintenance manual at closeout.

E. Warranty: Submit manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

A. Manufacturer shall have a minimum of fifteen years experience in the direct manufacture of lockers.

B. Installer Qualifications: Installer shall have experience necessary to assure lockers are installed properly and according to manufacturer's instructions.

C. Reference:

1. ASTM A513 – Minimum properties of Electric-Resistance-Welded Carbon Allow Steel Mechanical Tubing

2. ASTM A510 - Minimum properties of Wire Rods and Coarse Round Wire, Carbon Steel and Alloy Steel

1.5 DELIVERY, STORAGE AND HANDLING

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers with labels identifying product and manufacturer's name.

B. Storage: Store materials in a clean dry area.

C. Handling: Protect materials and finish during installation and handling to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. **Acceptable Manufacturers:** Subject to compliance with requirements of the contract documents, acceptable manufacturer's are as follows:

1. GearGrid Corporation, 670 SW 15th Street, Forest Lake, MN 55025. Toll-free 888-643-6694. Phone 651-464-4468. Fax 651-464-4780. Web site www.geargrid.com. Email sales@geargrid.com.
2. Additional manufacturer's may be approved, however approval does not preclude the manufacturer from providing documentation supporting their product meets or exceeds all aspects of this specification section. Failure to provide proper documentation will result in the rejection of submitted product.

2.2 TURNOUT GEAR LOCKER FABRICATION

A. Lockers must be fabricated and manufactured in the U.S.A. Products not manufactured in the U.S.A will be rejected at the time of submittals.

B. Model: GEARGRID Wall Mounted Storage System.

C. Locker Sizes: (Please reference project drawings for indicated sizes)

1. Standard: Overall dimensions- 84" high x 19.25" wide x 20" deep

   a) Clear Opening Width: 16.75"

D. Construction: Units shall be welded at all applicable joints. Forming of metal shall be completed by standard cold-forming operations. Use of fasteners will only be required to allow for knock-down shipping, securing units to mounting surface and on applicable accessories.

E. Vertical Dividers:

1. Outer Frames: 1.25" O.D. x 16 gauge wall thickness ASTM A513 steel tubing at front vertical. 1.25" Square x 16 gauge wall thickness ASTM A513 steel tubing at back vertical. Horizontal top, mid and bottom frame components consist of formed sheet metal hat channels.

2. Inner Grid: .25" diameter ASTM 510 cold drawn steel wire resistance welded to a 3" square pattern.

3. Inner Grid wires must be full length and width of inside vertical divider frame. Wires not running full length or width, thus creating exposed wire ends will not be acceptable.

4. Inner Grid wires shall intersect and cross all perpendicular wires, and shall be welded at all intersections.

F. Back Panel:

1. Required on each locker to protect the locker contents and wall substrate, as well as provide an additional panel for accessory attachment.

2. Grid: .25" diameter ASTM 510 cold drawn steel wire resistance welded to a 3" square pattern.

3. Back panel must engage and be secured to vertical dividers via horizontal wires which extend into mounting holes pre-drilled in vertical dividers. Back panels are sandwiched between vertical dividers, preventing them from being removed after assembly is complete.

4. Inner Grid wires must be full length and width of inside vertical divider frame. Wires not running full length or width, thus creating exposed wire ends will not be acceptable.

5. Inner Grid wires shall intersect and cross all perpendicular wires, and shall be welded at all intersections.

G. Top, Tier Divider and Bottom: .25" diameter ASTM 510 cold drawn steel wire resistance welded and cold formed.

H. Apparel Hooks: (3) per locker opening. .192" diameter ASTM 510 cold drawn steel wire resistance welded, cold formed and powder coated. Apparel hooks must securely engage and snap onto side or back grid, to prevent unintentional disengagement of hook.

2.3 ACCESSORIES –

All of the following accessories are OPTIONAL and should be removed from specification if not desired.

A. Door (optional):

1. Frame: 1.25" O.D. x 16 gauge wall thickness ASTM A513 steel tubing.

2. Inner Grid: .25" diameter ASTM 510 cold drawn steel wire resistance welded to a 3" square pattern.

3. Inner Grid wires must be full length and width of inside vertical divider frame. Wires not running full length or width, thus creating exposed wire ends will not be acceptable.

4. Inner Grid wires shall intersect and cross all perpendicular wires, and shall be welded at all intersections

5. Hinge: Single pin welded style with brass pivot bushing. Door and Vertical Divider hinge components must be welded and not mechanically fastened.

6. Placard Channel: 20 gauge steel to accept a 2" x 12" name placard, securely welded to inner grid panel

7. Latch/Hasp: Self-latching Rotary Slam Latch, with padlock hasp, Lock by owner.

B. Hang Bar (Optional)

1. Hang Bars must be manufactured to allow each locker user to install at their desired height. Hang Bars that span multiple locker openings are not acceptable.

2. Tube: 1.25"O.D. x 16 gauge 304 stainless steel tubing.

3. Brackets: Allow Hang Bars to be securely attached to each vertical divider, powder coated.

C. Heavy Hanger (optional):

1. .25" diameter 304 stainless steel wire cold formed and resistance welded.

2. Black vinyl coating on hook end.

D. Gear Dryer Hanger (optional):

1. .25" diameter 304 stainless steel wire cold formed and resistance welded. Includes formed loops to prop open sleeves on jackets to promote better circulation throughout the garment.

2. Black vinyl coating on hook end.

E. Glove Drying Hanger (optional):

1. .25" diameter 304 stainless steel wire cold formed and resistance welded.

2. Black vinyl coating on hook end.

F. Helmet Holder (optional, not recommended when Door and Top Cover option or Top Side Storage option is also selected):

1. .25" diameter ASTM 510 cold drawn steel wire resistance welded. Powder coated finish in specified color.

G. Secure Box (optional):

1. 6" wide x 6" high x 12" deep 6061 Aluminum enclosure with hinged, lockable door at outer end. Design shall include an integrated mail slot. Powder coated finish in specified color.

H. Power Bar (optional on 20" and 24"):

1. 16 gauge steel chase integrated into the upper framework of the locker assembly allowing provision for the installation of a 120VAC duplex outlet at each locker location. Powder coated finish in specified color.

    a. No outlets or electrical connections included with Power Bars.

I. Top Side Storage (optional):

1. Shelf spanning across the top of the lockers for additional gear storage above lockers. .25" diameter ASTM 510 cold drawn steel wire resistance welded to a 3" square pattern. Powder coated finish in specified color.

2.4 FINISH

A. General: All system components excluding assembly and mounting hardware and stainless steel components are to receive the standard finish.

B. Standard Finish: Components to be cleaned using a phosphatized bath, clear water rinse and electro-statically coated with a durable and UV-stable TGIC powder coating process. Thickness of applied finish shall be 3 – 4 mm for added protection.

1. Anti-Corrosive Primer: (Optional)

C. Color: _____ (Manufacturer must provide a minimum 7 standard color choices for selection)

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine area to receive lockers. Notify architect if area are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

A. Install lockers in accordance with manufacturer's instructions.

B. Use manufacturer's hardware for assembly.

C. Anchor to mounting surface with proper hardware.

END OF SECTION