LOCKERBASKETS®

Installation Instructions
Please read before installing or using system

WARNING

FAILURE TO READ AND COMPLY WITH THESE INSTRUCTIONS OR ANY ONE OF THE LIMITATIONS NOTED HEREIN CAN RESULT IN SERIOUS BODILY INJURY OR DEATH, AND/OR PROPERTY DAMAGE.

Proper use of the Descent Control Device can reduce the potential for serious injuries from a falling LOCKERBASKET®. Consult The Moore Company, Inc. if there is any question about the installation or use of this product.

THESE INSTRUCTIONS ARE FOR THE INSTALLATION OF THE MOORE LOCKERBASKET® SYSTEM. ALL REFERENCES TO THE SYSTEM OR ANCHOR POINTS MEAN THE MOORE LOCKERBASKET® SYSTEM AND THE MOORFRAME® IN THE MOORE LOCKERBASKET® SYSTEM. THE INDIVIDUAL PARTS AND THE SYSTEM ARE NOT DESIGNED OR INTENDED FOR ANY PUROSE OTHER THAN IN THE MOORE LOCKERBASKET® SYSTEM AND ONLY IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS FOR THE LOCKERBASKET® SYSTEM AND THESE INSTRUCTIONS.

IT IS THE RESPONSIBILITY OF THE OWNER AND PLANT OPERATOR, AND THEIR DESIGN PROFESSIONALS, to ensure that the installation of the LOCKERBASKET® system and all of its components is in accordance with The Moore Company *Installation Instructions, Use & Maintenance Instructions, Operating and Service Instructions, and these Instructions and Warnings*, and with all applicable laws, safety rules and standards, including all safety rules and regulations of the Occupational Safety & Health Administration (OSHA) (http://www.osha.gov) and Mining Safety & Health Administration (MSHA) (http://www.msha.gov), all State and Local safety rules, regulations and building codes, and applicable ANSI/ASME Standards. It is also the responsibility of the owner and plant operator, and their design professionals, to be certain that the structure of the building to which the LOCKERBASKET® System will be attached is appropriate for and will safely and reliably hold the LOCKERBASKET® overhead clothes storage system.

ONLY QUALIFIED INSTALLERS SHOULD BE PERMITTED TO INSTALL THE SYSTEM.

FAILURE TO PROPERLY INSTALL THE LOCKERBASKET® SYSTEM CAN RESULT IN SERIOUS BODILY INJURY OR DEATH AND/OR PROPERTY DAMAGE. Refer to *Installation Instructions, Use & Maintenance Instructions, Operating and Service Instructions, and these Instructions and Warnings,* for further assistance or contact The Moore Company. The Moore Company shall have no responsibility for any installation of the LOCKERBASKET® system not in compliance with, and/or not maintained in compliance with, The Moore Company instructions and warnings and all applicable Regulations and Standards.

The Moore Company, Inc. shall have no responsibility for any alteration or modification of the LOCKERBASKET® system, or the use of non-Moore Company components or products used with or incorporated into the LOCKERBASKET® SYTEM.

IT IS THE RESPONSIBILITY OF THE OWNER AND OPERATOR, AND THEIR DESIGN PROFESSIONALS, to be certain that the LOCKERBASKET® System is properly maintained and serviced at all times in compliance with The Moore Company *Installation Instructions, Use & Maintenance Instructions, Operating and Service Instructions, and these Instructions and Warnings,* and with all applicable laws, safety rules and standards, including all applicable safety rules and regulations of OSHA and MSHA, all State and Local safety rules, regulations and building codes, and applicable ANSI/ASME Standards.

FAILURE TO PROPERLY MAINTAIN AND SERVICE THE LOCKERBASKET® SYSTEM CAN RESULT IN SERIOUS BODILY INJURY OR DEATH AND/OR PROPERTY DAMAGE. Refer to *Installation Instructions, Use & Maintenance Instructions, Operating and Service Instructions, and these Instructions and Warnings*, for further assistance or contact The Moore Company. The Moore Company shall have no responsibility for any failure to maintain or service the LOCKERBASKET® System in compliance with The Moore Company instructions and warnings and applicable Regulations and Standards.

IT IS THE RESPONSIBILITY OF THE OWNER AND OPERATOR, AND THEIR OFFICERS, MANAGERS AND SUPERVISORS, to be certain that all employees and other users of the LOCKERBASKET® System are fully and properly educated and trained by qualified personnel in the proper and safe use of the LOCKERBASKET® System, including, but not limited to, familiarity with and understanding of The Moore Company *Installation Instructions, Use & Maintenance Instructions, Operating and Service Instructions, and these Instructions and Warnings*, and all applicable Regulations and Standards and that such employees and other users do, in fact, at all times operate the LOCKERBASKET® System safely and ONLY in compliance with The Moore Company instructions and warnings and with all applicable Regulations and Standards.

FAILURE TO OPERATE THE LOCKERBASKET® SYSTEM SAFELY AND IN COMPLIANCE WITH THE MOORE COMPANY INSTRUCTIONS AND WARNINGS AND WITH APPLICABLE REGULATIONS AND STANDARDS, AND/ OR PERMITTING USE BY EMPLOYEES OR OTHER USERS NOT PROPERLY TRAINED IN THE SAFE AND PROPER USE OF THE SYSTEM, CAN RESULT IN SERIOUS BODILY INJURY OR DEATH AND/OR PROPERTY DAMAGE. Refer to The Moore Company *Installation Instructions, Use & Maintenance Instructions, Operating and Service Instructions, and these Instructions and Warnings*, for further assistance or contact The Moore Company, Inc. The Moore Company shall have no responsibility for any failure to use or operate the LOCKERBASKET® System in compliance with The Moore Company instructions and warnings and all applicable Regulations and Standards.

CAUTION: Anchor Points and Connections: The Descent Control Device must be securely connected to The Moore Company MOORFRAME® rails and the LOCKERBASKET'S® hanger hook as detailed in these instructions.

BEFORE INSTALLING THE DESCENT CONTROL DEVICE, ENSURE THAT THE LOCKERBASKET® SYSTEM IS PROPERLY INSTALLED AND IN GOOD WORKING CONDITION. COMPLY WITH ALL WARNINGS AND INSTRUCTIONS ABOVE AND THROUGHOUT INSTALLATION INSTRUCTIONS.

Installation Instructions

WARNING: Read all warnings and instructions before installing or using system.
Customers are directed to review our website www.moorecompany.com
for all important safety and technical updates and the latest version of the instructions.

Personnel and Equipment Requirements

Project Installation Time Estimating Guide

Use the formula below as a guide only to estimate time for the installation of your LOCKERBASKET project. Labor force and building conditions, as well as other factors unknown to The Moore Company, Inc. may affect installation time. The contractor is responsible for interpreting actual project conditions and determining a reasonable estimate of installation time.

$$\frac{(\text{\# LOCKERBASKET units}) * 1.333 \text{ MH/unit})}{(8 \text{ hours/day} * (\text{\# people in crew})}$$

The Moore Company estimates that it takes a crew of three, 1.333 man-hours per unit to install a complete system, including the bench supports and ALUMIBENCH. The contractor should modify this suggested installation rate as necessary.

Example: Estimate the time required for three workers to install a complete 100 LOCKERBASKET system.

Solution:

$$\frac{(100 \text{ units}) * (1.33 \text{MH/unit})}{(8 \text{ hours/day} * (3 \text{ MH/hour})} = 5.5 \text{ days}$$

Partial Materials List (by other suppliers)

The Moore Company, Inc. recommends for concrete slabs greater than 3-1/2" that the following anchors be used. For other materials, floor construction or conditions, consult your design professional.

- 3/8"x 2 3/4" long Hilti Kwik Bolt expansion anchors (or equal) - 2 bolts for each pedestal (MCO-33 or 34) NOTE: If floor slab is less than 3 1/2" thick, seek advice on appropriate anchor bolt length.

Depending on project conditions, the following material must be purchased separately to complete the LOCKERBASKET system.
See Connecting Details on page 9 for illustrations of each condition.

If welding MOORFRAME support rail to steel overhead structure or steel plates in concrete overhead structure, include:
- 1/8" (3 mm) E70 series welding electrodes (or equivalent) for welding MOORFRAME support rail to steel overhead structure or steel plates in concrete overhead structure.

If bolting MOORFRAME support rail to steel or wood overhead structure, include:
- 3/8" diameter (10 mm) structural grade hexagonal headed steel bolts with washers and nuts. Choose a length of bolt that allows at least 2 threads to be exposed after nut is snug-tight.
- Clip angles (wood structure only)

If suspending MOORFRAME support rail to concrete overhead structure, also include:
- 3/8" Hilti Kwik Bolt stud anchors (or equivalent) of appropriate length for project conditions.

If suspending MOORFRAME overhead framing from overhead structure as illustrated on page 10, also include:
- 2" x 2" x 1/4" clip angles (50 mm x 50 mm x 6 mm) - one at each end of each support rail (MCO-28)
- 3/8" Hilti Kwik Bolt stud anchors of appropriate length for project conditions or 1/8" E70 series welding electrodes.
- 1" x 1"x 1/8" bridging angle (25 mm x 25 mm x 3 mm). NOTE: Bridging terminus must be secured to structure with clip angles or weld.
- 3/8" diameter threaded hanger rods with washers and nuts.

If splicing MOORFRAME members, also include:
- 1/8" E70 series welding electrodes. NOTE: Also order extra section of MOORFRAME. Additional 18 inch lengths are required at each splice. (see drawing on page 8)

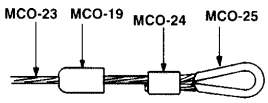
If bolting MOORFRAME support rail to steel or wood overhead structure, also include:
- 7/16" drill bit—appropriate grade

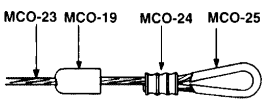
Partial Tool List (by other suppliers)

The LOCKERBASKET system can be installed using the following tools:
- Crimping Tool (MCO-26) - supplied by The Moore Company, Inc.
- Cable Cutter (MCO-27) - supplied by The Moore Company, Inc.
- Scaffolding (high enough for workers to attach MOORFRAME to overhead structure)
- Industrial strength glue
- Cordless electric drill and the following bits:
  1/4" (6 mm) - metal grade
  9/16" (14 mm) - metal grade
  7/16" (11 mm) - masonry grade
- Hack saw or electric band saw—metal grade blades
- Wide-mouth vice grips (approx. 3 sets)
- 1/2", 9/16", 3/4" wrenches and sockets:
- Hand tools, including a hammer, pliers, screw drivers measuring tape, level, plumb bob, chalk line boxes, cordless impact wrench
- Electric welding machine and power extension cords
- 1/4" x 3/4" self tapping sheet metal screws (one per Anchor Hook)

Special Cable Instructions for Formation of Cable Loop

Slide Cable through the small hole in the top of the Vinyl Sleeve Guard. Insert the Cable into one side of the Serving Sleeve and wrap the Cable around the Thimble and back through the Serving Sleeve. All strands of wire must go through the Serving Sleeve. If any distortion occurs in the Cable end, recut the Cable. Slide the Serving Sleeve up on the Cable until the loop is tight around the Thimble. The end of the Cable should extend 1/8 inch beyond the face of the Serving Sleeve. Compress the center of the Serving Sleeve first and then at each end, for a total of three (3) crimps. Slide the Vinyl Guard over the compressed Serving Sleeve.



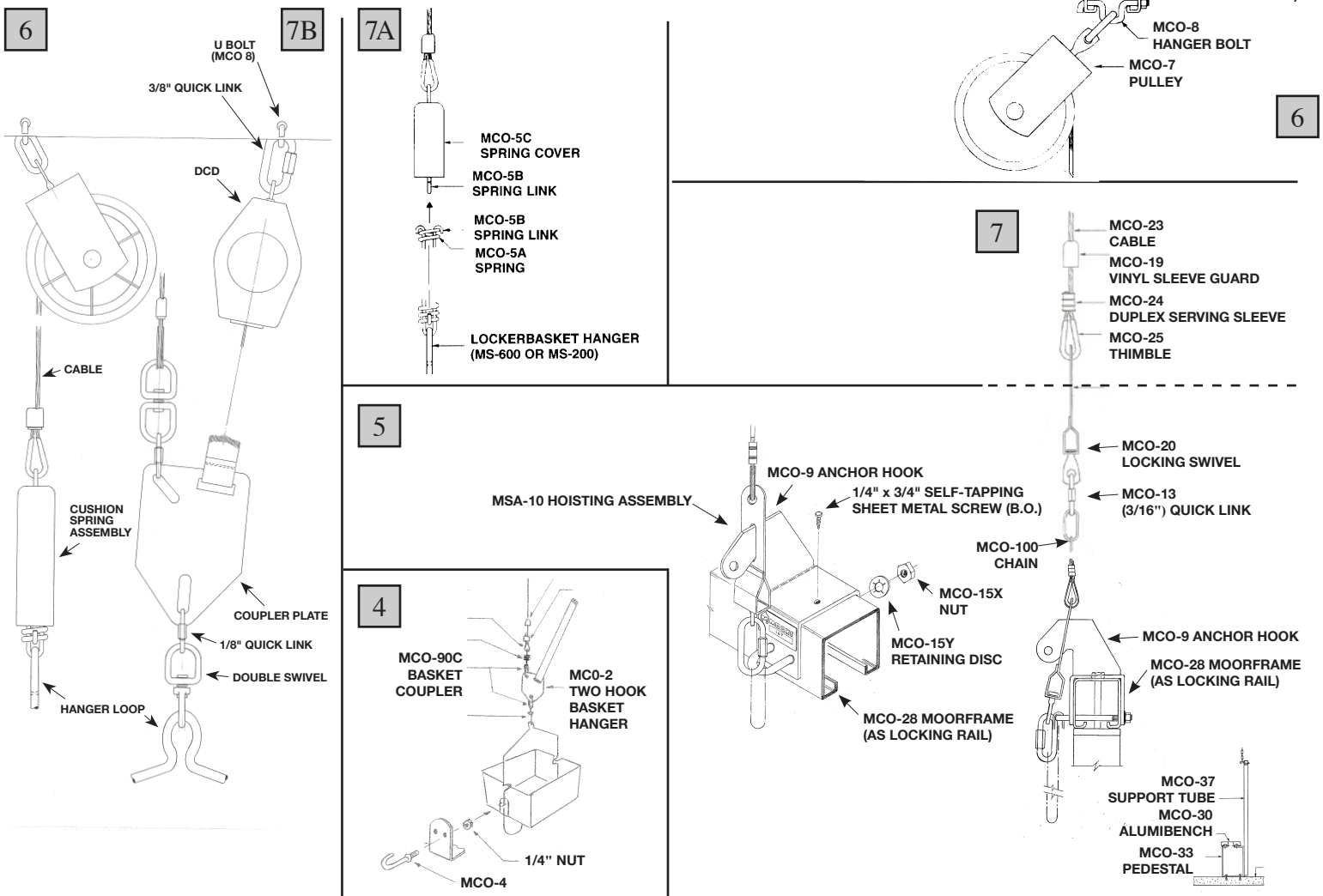


The Moore Company, Inc.
P.O. Box 3570
Charleston, WV 25337
Phone: 304-344-8024
Fax: 304-344-8025
info@moorecompany.com

www.moorecompany.com

SEE PRINTED INSTRUCTIONS ON FOLLOWING PAGES.

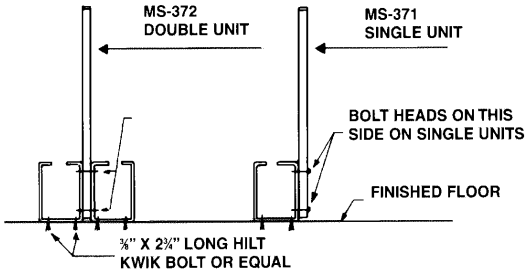
EXPLODED VIEW OF ERECTION SEQUENCE



3 INSTALLATION OF ALUMIBENCHES, SUPPORTS & LOCKING RAILS

STEP A

ASSEMBLE BENCH SUPPORTS AND LOCKING RAIL SUPPORT TUBES ASH SHOWN. TIGHTEN BOLTS WHILE UNIT IS VERTICAL ON THE FLOOR.

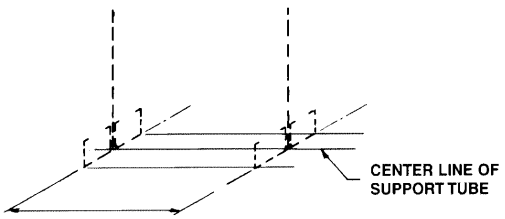


STEP B

BEGINNING AT AN ENDWALL, LOCATE THE MOORFRAME COLLECTOR RAIL AND DROP A LUMB LINE FROM THE CENTER LINE OF THE COLLECTOR RAIL TO THE FLOOR BELOW

STEP C

STRIKE CHALK LINES ON FLOOR MARKING THE CENTER LINE OF

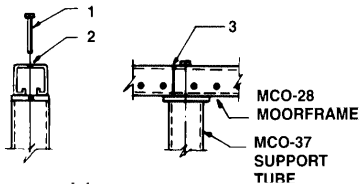


STEP D

1. WITH PEDESTAL IN PLACE DRILL 3/8" HOLES IN FLOOR USING HOLES IN PEDESTAL AS A TEMPLATE.
2. INSTALL SLEEVE ANCHORS AND WASHERS IN FLOOR, MOORE COMPANY RECOMMENDS HILT KWIK BOLT STUD ANCHOR ⅜" DIAMETER-2¾" LONG OR EQUAL.

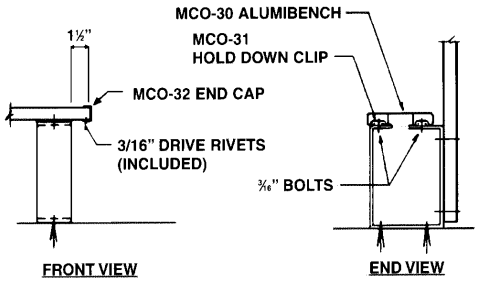
STEP E

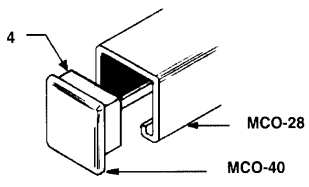
1. SET LOCKING RAILS ON TOP OF SUPPORT TUBES, DRIL ⅝" HOLES IN TOP OF RAIL AS REQUIRED.
2. INSTALL AND TIGHETN ½" MACHINE BOLT THROUGH RAIL INTO CAP PLATE.
3. LOCKING RAIL SPLICES MUST BE MADE OVER A CAP PLATE. FIELD WELD BUT JOINT AND GRINE SMOOTH.
4. INSERT AN END CAP ON ALL EXPOSED ENDS OF MOORFRAME AND HOLD IN PLACE WITH INDUSTRIAL GLUE



STEP F

1. SET BENCHES ON PEDESTALS
2. SAW BENCHES TO REQUIRED LENGTH, MAKE SPLICES OVER CENTER OF PEDESTAL, END OF BENCH TO HAVE 1½"MIN. OVERHANG OR A MAX OF 1'-0" SAND OR FILE SAW CUTS SMOOTH.
3. CLAMP BENCHES TO PEDESTALS.
4. INSTALL END CAPS ON BENCH WITH ⅜" DRIVE RIVETS ON UNDERSIDE





LOCKING RAIL END CAP

CLEAN SOLUBLE LUBRICANT AND DIRT FROM AREA TO BE CAPPED. COAT INSIDE OF CAP FLANGES WITH A QUICK DRYING ADHESVIE AND PLACE OVER END OF MOORFRAME.

RECOMMENDED SEQUENCE FOR STANDARD LOCKERBASKET INSTALLATION

1 Assembly of Overhead MOORFRAME Collector and Support Rails

Crew to break out MOORFRAME, measure and cut all collector and support rails. Lay out on floor according to overhead position (keep floor clear for scaffolding). See Technical Data on pages 8, 9 and 10 .

2 Welding or Bolting of MOORFRAME to the Structural Frame

(for concrete and wood structures, see details on page 9)

1. Beginning at an end bay and using layout drawings, place a chalk mark where the center line of each collector and support rail is to be connected to the bottom cord of joist or purlin and continue until all connection points have been correctly marked.
2. Weld or bolt all collector and support rails to joist or purlins, per MOORFRAME connection details on pages 8, 9 and 10.

3 Assemble Locking Rail Bench Support Units

1. Bolt the Locking Rail Support Tube to one pedestal for a Single Bench Support or two pedestals for a Double Bench Support, per details on page 4. Remember to install a bench support every 6'-0" (1830 mm) or less, on each row of bench.
2. Beginning at an end wall, locate the MOORFRAME collector rail end and drop a plumb line from the center line of the Collector Rail to the floor.
3. Strike line on floor marking the center line of each Locking Rail Support Tube as shown on page 4, step 3C.
4. Position the assembled single or double locking rail support units so the support tubes are centered on the center line, then anchor to the floor.
   A. With the pedestal in position, drill 3/8" diameter holes in the floor using holes in pedestal base as a template.
   B. Install expansion anchors in floor. Manufacturer recommends using the Hilti Kwik bolt 3/8" x 2 3/4" long (or equivalent)
   C. Bolt support units in place. Use shims for leveling benches.
5. Install the Locking Rail to the bench support units.
   A. Set MOORFRAME locking rail on top of support tubes and drill 9/16" holes into the top of the MOORFRAME locking rail on required spacing of 6'-0" (1830 mm) centers, or less, to align with Support Tube pre-drilled holes.
   B. Insert and tighten 1/2" diameter machine bolt through the top of the MOORFRAME locking rail and into the Support Tube's cap plate.
   C. Locking Rail splices must be made over a Support Tube cap plate.
   D. Place an End Cap on all exposed ends of the Locking Rail and hold in place with industrial glue.
6. Install ALUMIBENCH planking to Locking Rail Support Units per sketch on page 4, Step 3F.
   A. Set aluminum benches on pedestals.
   B. Cut benches to required length, splicing on center line of pedestal. End of bench should have a 1-1/2" (40 mm) minimum to 1'-0" (305 mm) maximum overhang. File all saw cuts smooth.
   C. Attach benches to pedestals with hold down clip assembly.
   D. Install end caps on ends of bench. Attach with 3/16" drive rivets on underside of overhang.

4 Assembly of LOCKERBASKETS and Standard Operating Equipment

ATTENTION: If installing the Descent Control Device, begin with #1. If install <u>does not</u> include a Descent Control Device, begin with #2.

1. Insert the Two hook Hanger through the loop of the double swivel. Ensure that the swivel loop is fully and properly seated inside the top loop of the basket hanger. See sketch on page 4.
2. Slide the two-hook hanger over the wire basket and into the grooves in the basket rim. The rim of the basket should rest on the both hanger notches.
3. Insert guide bolts over the hanger hook shaft and through the holes in the basket strap. Secure in place with a 1/4" nut.
4. Place one vinyl hook guard on each garment hook and twist downward into place.

5 Connection of chain hoist assembly to locking rail

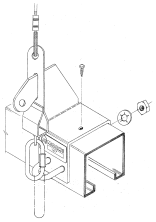
1. Determine the ceiling height from the bottom cord of the joist where the collector rail will be attached to the floor. The chain is precut to 9'-0" lengths for ceiling heights of 16'-0" or greater. If the ceiling height is lower, shorten the chain as follows:

Length Adjustment	Chain length	Ceiling height
No Cutting Necessary	9'-0" 2740 mm	16'-0" 4880 mm or higher
Remove 1' 0" of chain	8'-0" 2440 mm	15'-0" 4570 mm
Remove 2'-0" of chain	7'-0" 2130 mm	14'-0" 4270 mm

2. Fully open one MCO-13 Quick Link and insert the threaded end of the Quick Link through the end link at one end of the MCO-100 chain.
3. Insert the threaded end of the MCO-13 Quick Link into the swivel end of the MCO –20 Locking Swivel.
4. Close the MCO-13 Quick Link opening and securely tighten the MCO-13 Quick Link.

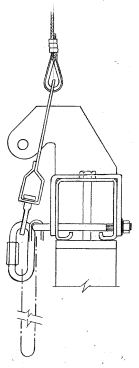
<u>ENSURE THE NUT IS TIGHTENED SUCH THAT QUICK LINK WILL NOT OPEN.</u>

5. Place the MCO-9 Anchor Hook over the top of the MOORFRAME and align holes per the Anchor Hook spacing table on page 12. Insert the last link of the MCO-100 Chain on the end ***<u>without</u>*** the MCO-20 Locking Swivel through the MCO-9B Hook Bolt and then insert the Hook Bolt through the properly aligned holes in the Anchor Hook and MOORFRAME. Seat the loop end of the MCO-9B Hook Bolt into the side hole of the Anchor Hook for proper alignment. Place a Retainer Disc on the threaded end of the MCO-9B Hook Bolt. Push the retainer disc onto the shank flush with the MOORFRAME Locking Rail. Install hex nut and tighten while ensuring the MCO-9B Hook Bolt remains properly aligned.



6. Insert a 1/4" self-tapping sheet metal screw (8x3/4 Hex head) (By others) into the guide hole located in the top of the MCO-9 Anchor Hook. Using a 1/4" Socket Driver, securely screw into the top of the MOORFRAME. See sketch in Step 5.

   ATTENTION INSTALLER: Shift the Anchor Hook to one side or drill an alternate hole in the top of the Anchor Hook if the guide hole intersects with a hole in the top of the MOORFRAME.



7. Adhere sequential numbering tag to the MCO-9 Anchor Hook. See sketch for proper placement.

<u>WARNING:</u> ENSURE THE LOOP OF THE HOOK BOLT IS PARALLEL TO THE FLOOR, THE END OF THE BOLT IS PROPERLY SEATED IN THE ALIGNMENT HOLE AND THE RETAINING DISC AND NUT ARE PROPERLY TIGHTENED. IMPROPER INSTALLATION COULD CAUSE SEVERE INJURY.

6 Install pulleys into overhead framing

1. Inspect pulley to ensure the sheave spins freely and the cotter pin is properly secured with its ends bent back.
2. Attach pulleys to MOORFRAME collector rail as called for in the pulley and locking bolt spacing table on page 8 to ensure proper hole sequencing. Insert curved end of MCO-8 Hanger Bolt through proper hole in MOORFRAME. Slip top link of pulley on to the Hanger Bolt and insert the straight end of the Hanger Bolt into the other end of the MOORFRAME. Secure with locking nut. Ensure all bolts protrude below the MOORFRAME flanges.
3. Attach support pulleys to the MOORFRAME support rails every 2'-0" (610 mm) on center, per instructions in # 6-1 above.

7A Connect Cable to Cushion Spring Assembly and Basket (see page 4 for exploded view)

If installing a Descent Control Device, disregard Step 7A and proceed to Step 7B.

1. Beginning from the LOCKERBASKET® end, thread the Polycore cable through the two pulleys (support and then collector pulley) and down to the Locking Swivel for that specific LOCKERBASKET®. Attach the cable to the swivel-locking plate as outlined on page 4.
2. Pull the polycore cable to extend the cable to its full length and cut the polycore cable 6'-0" (1829 mm) from the floor.
3. Form a cable eye as previously described. It is important to to crimp the aluminum duplex serving sleeve three (3) times to prevent failure of the loop.
4. Slide the vinyl sleeve guard over the crimped serving sleeve. Push cable eye through the hole in the spring cover, then place one spring link through the cable eye. Squeeze the ends of the spring link together and slip through the spring until the loops engage the top of the spring. Slide the second spring link through top of LOCKERBASKET® hangar and then through the cushion spring. Slide the vinyl cover over the top of the spring.

7B Attach cable to DCD's Basket Coupler and Hoisting Assembly (see page 4 for exploded view)

NOTE: Disregard if not installing a Descent Control Device.

1. Beginning from the LOCKERBASKET® end, thread the Polycore cable from the cable spool through the two pulleys (support and then collector pulley) and down the Locking Swivel for that specific LOCKERBASKET®. Attach the cable to the Locking Swivel as outlined on page 4. Refer to page 3 for making a proper cable loop.
2. Pull the polycore cable to extend the cable and chain to their full length and cut the polycore cable 6'-0" (1829 mm) from the floor.
3. Form a cable eye as previously described. It is important to use a thimble for this standard cable loop connection and to crimp the aluminum duplex serving sleeve three (3) times to prevent failure of the loop. Slide the vinyl sleeve guard over the crimped serving sleeve.
4. Connect the cable loop to the Basket Coupler using the 1/8" quick link that is attached to the double swivel. Ensure the gates on the quick links are securely closed in the lock position. Temporarily place the MCO-90A Descent Control Device Reel inside the wire basket.
5. Raise the LOCKERBASKETS® to its fully raised and locked position.
6. Insert an MCO-8 Hanger Bolt into the MOORFRAME® no further than 1'-0" to any one side of the support pulley that is located over the basket being installed. Secure into place by tightening the nut.
7. Remove the Descent Control Device from inside the wire basket and using the MCO-38 (3/8") Quick Link, connect the swivel stem on the Descent Control Device to the MCO-8 Hanger Bolt and tightly and securely screw the MCO-38 (3/8") Quick Link gate closed.
   NOTE: If the MOORFRAME® is greater than 17'-0" above the finished floor, the installer will need to field cut a polycore cable extender to allow the MCO-90C Basket Coupler to hang approximately 15' above the finished floor, such that the Descent Control Device hangs ABOVE the basket and the nylon webbing has no tension on it and minimal slack. See instructions for MAKING A CABLE EXTENDER (LANYARD).

Test the installation of the LOCKERBASKET® and the Descent Control Device following the procedure outlined in STEP#7.

NOTE: If either swivel (installed in STEPS# 4-1, 7B-4) do not freely rotate simply apply WD-40 or equivalent lubricant.

CAUTION
DOUBLE CHECK TO ENSURE MCO-38 QUICK LINK GATE IS TIGHTLY AND SECURELY SCREWED CLOSED.

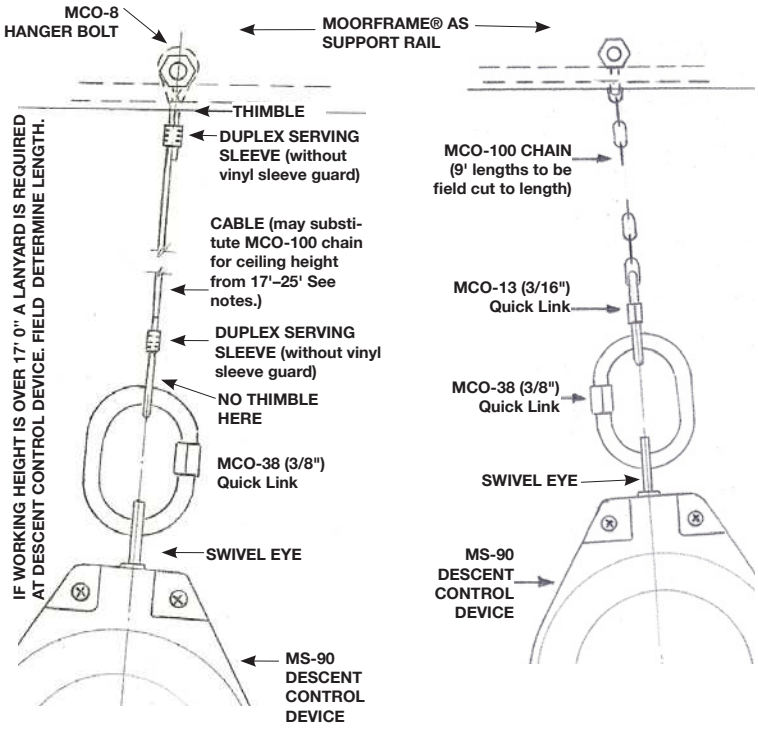
8 Inspect and test assembly

1. The LOCKERBASKET®, when lowered, should hang approximately 5'-0" (1520 mm) above the floor.
2. Inspect all nuts, bolts and mechanical connections to ensure unit is in safe and proper working order. Ensure that there are three (3) crimps on each of the sleeves used to form the cable loops.
3. Test the LOCKERBASKET® by raising and lowering it, checking for ease of operation and that the parts are properly located in the assembly. Should you have any questions, contact The Moore Co.
4. If a Descent Control Device was installed, check to ensure that the nylon webbing is free from all obstructions, heaters, sharp objects and is allowed to freely spool and unspool from Descent Control Device. The nylon webbing, when the basket is fully raised and locked into position, should have no tension on it and only minimal slack.
5. Give padlocks to Owner, if part of order.

MAKING A LANYARD (EXTENDER) Required for ceiling heights 17′ or over

With the wire basket in its fully raised and locked position, the Installer must field cut the chain or cable lanyard to a length that will allow the MCO -90C Basket Coupler to hang approximately 15’ above the finished floor and such that the Descent Control Device hangs ABOVE the raised wire basket and the *nylon webbing extends downward and is free of all obstructions to the Basket Coupler. The nylon webbing should have no tension on it and only minimal slack.*

CABLE LANYARD **CHAIN LANYARD, Option**



CABLE LANYARD (for ceiling heights 17’ and above)

1. Ensure the wire basket empty and fully raised and locked into position.
2. The cable lanyard (extender) is made by first forming a standard cable loop using a thimble (see Page 3) and securing it to the MCO-8 Hanger Bolt installed in STEP 7 sub-step #4, above.
3. Estimate the length of cable necessary to make a cable loop through the MCO-38 Quick Link that is connected to the Descent Control Device (DCD) eye, such that the DCD hangs ABOVE the raised wire basket and the nylon webbing extends downward and is free of all obstructions to the Basket coupler. The nylon webbing should have no tension on it and only minimal slack. Cut the cable to the required length and properly form a cable loop but ***without*** a thimble. (see Page 3)
4. With free end of the cable, form a cable loop through the swivel eye of the Descent Control Device without a thimble. See page 3 for making a cable loop.

OPTION

CHAIN LANYARD (only for ceiling heights 17'-25' above finished floor)

1. Ensure the wire basket is empty and fully raised and locked into position.
2. The chain lanyard (extender) is made by first inserting the last link of the MCO -100 chain into the MCO -8 Hanger Bolt installed in STEP 7 sub-step# 4 above.
3. Extend the chain downwards such that the DCD will hang approximately 15’-0” above the finished floor and cut the chain.
4. Insert a MCO-13 Quick Link into the free end of the chain and close the gate tightly.
5. Connect a MCO-90 DCD to the MCO-13 Quick Link using the MCO-38 Quick Link and close the gate.
6. **Make certain that BOTH Quick Link gates are securely closed.**

RECOMMENDED ERECTION SEQUENCE FOR INTERIOR LOCKER-OPERATED LOCKERBASKET®

Assemble lockers and locker bench according to manufacturer's instructions and architect's plans and specifications.

1 **Assembly of Overhead MOORFRAME® Collector and Support Rails**

Break out MOORFRAME®, measure and cut all collector and support rails. Lay out on floor according to overhead position (keep floor clear for scaffolding). Ensure that the collector rail is aligned directly over the 3" perforations in the top of the lockers and the supporting rails beginning 3'-9" (1143) from the collector rail. See Technical Data on pages 12, 13 and 14.

2 **Welding or Bolting of MOORFRAME® to the Structural Frame**
(For concrete and wood structures, see details on page 13)

1. Beginning at an end bay and using layout drawings, place a chalk mark where the center line of each collector and support rail is to be connected to the bottom cord of joist or purlin and continue until all connection points have been correctly marked.
2. Weld or bolt all collector and support rails to joist or purlins, per MOORFRAME® connection details on pages 12, 13 and 14.

3 **Install Lockers and Bench Support Units according to manufacturer's instructions and/or architect's plans and specifications.**

Suggested details for a Cantilevered Bench Supports for raised floor installation are provided on page 8 for your consideration.

4 **Assembly of LOCKERBASKETS® and Locker Operating Equipment**

ATTENTION: If installing the Descent Control Device, begin with #1. If install <u>does not</u> include a Descent Control Device, begin with #2.

1. Insert the Two-hook Hanger through the bottom slot in the MCO-90C Basket Coupler (metal plate that is attached to the MCO-90A Descent Control Device's nylon strap.) Ensure that the basket coupler is fully and properly seated inside the top loop of the basket hanger. Please see sketch on page 4.
2. Slide the hanger over the wire basket and into the grooves in the basket rim. The rim of the basket should rest on both hanger notches.
3. Insert guide bolts over the hanger hook shaft and through the holes in the basket strap. Secure in place with a 1/4" nut.
4. Place one vinyl hook guard on each garment hook and twist downward into place.

5 **Connection of chain hoist assembly to interior locking bolt**

1. Determine the ceiling height from the bottom cord of the joist where the collector rail will be attached to the floor. The chain is precut to 9'-0" lengths for ceiling heights of 16'-0" or greater. If the ceiling height is lower, shorten the chain as follows:

Ceiling Height	Chain Length	Length Adjustment
16'-0" 4880 mm or higher	9'-0" 2740 mm	No Cutting Necessary
15'-0" 4570 mm	8'-0" 2440 mm	Remove 1' 0" of chain
14'-0" 4270 mm	7'-0" 2130 mm	Remove 2'-0" of chain

2. Fully open one MCO-13 (3/16") Quick Link and insert the threaded end of the Quick Link through the end link at one end of the MCO-100 chain.
3. Insert the threaded end of the MCO-13 Quick Link into the swivel end of the MCO-20 Locking Swivel.
4. Close the MCO-13 Quick Link opening and securely tighten the MCO-13 Quick Link.

WARNING
ENSURE THE GATE IS TIGHTENED SUCH THAT QUICK LINK WILL NOT OPEN

5. Inside the locker, 6 inches below the shelf and in line with the perforations, drill one ¼" diameter hole in the side of the locker.
6. Place a 2" washer on either side of the hole and insert the MCO-43 Aligning Bolt through the side of the locker and the two washers and securely with the nut provided. See sketch.
7. Inside the locker and on the same side as the MCO-43 Aligning Bolt, drill two ¼" diameter holes such that the center line of the Locking Bolt eye is 4'-6" above the finished floor.
8. Slide the end of the MCO-100 chain without the MCO-20 Locking Swivel through the perforation in the top of the locker and shelf and through the MCO-43 Aligning Bolt. Insert the MCO-46A Locker Locking Bolt through the last link of the MCO-100 chain.
9. See detail on page 10.
10. Attach Warning Label provided to the inside wall of the floor locker next to Securing Plate Assembly such that it is visible and easy for the operator to read.

WARNING

ENSURE THAT THE LOCKER LOCKING BOLT IS PROPERLY ALIGNED SUCH THAT THE MOUNTING BOLTS ARE BELOW THE EYE AND ARE SECURELY TIGHTENED. IMPROPER INSTALLATION COULD CAUSE SEVERE INJURY.

6 **Install pulleys into overhead framing**

1. Inspect pulley to ensure the sheave spins freely and the cotter pin is properly secured with its ends bent back.
2. Attach pulleys to MOORFRAME® collector rail such that the cable will descend vertically inside the floor locker without touching the sheet metal. Insert curved end of MCO-8 Hanger Bolt through proper hole in MOORFRAME®. Slip top link of pulley on to the Hanger Bolt and insert the straight end of the Hanger Bolt into the other end of the MOORFRAME®. Secure with locking nut. Ensure all bolts protrude below the MOORFRAME® flanges.
3. Attach support pulleys to the MOORFRAME® support rails every 2'-0" (610 mm) on center, per instructions in STEP# 6 on page 5.

7A **Connect Cable to Cushion Spring Assembly and Basket (see page 4 for exploded view)**
If installing a Descent Control Device, disregard Step 7A and proceed to Step 7B.

1. Beginning from the LOCKERBASKET® end, thread the Polycore cable through the two pulleys (support and then collector pulley) and down to the Locking Swivel for that specific LOCKERBASKET®. Attach the cable to the swivel-locking plate as outlined on page 1.
2. Pull the polycore cable to extend the cable to its full length and cut the polycore cable 6'-0" (1829 mm) from the floor.
3. Form a cable eye as previously described. It is important to to crimp the aluminum duplex serving sleeve three (3) times to prevent failure of the loop.
4. Slide the vinyl sleeve guard over the crimped serving sleeve. Push cable eye through the hole in the spring cover, then place one spring link through the cable eye. Squeeze the ends of the spring link together and slip through the spring until the loops engage the top of the spring. Slide the second spring link through top of LOCKERBASKET® hangar and then through the cushion spring. Slide the vinyl cover over the top of the spring.

7B **Attach cable to DCD's Basket Coupler and Hoisting Assembly (see page 4 for exploded view)**

NOTE: Disregard if not installing a Descent Control Device.

1. Beginning from the LOCKERBASKET® end, thread the Polycore cable from the cable spool through the two pulleys (support and then collector pulley) and down the Locking Swivel for that specific LOCKERBASKET®. Attach the cable to the Locking Swivel as outlined on page 4. Refer to page 3 for making a proper cable loop.
2. Pull the polycore cable to extend the cable and chain to their full length and cut the polycore cable 6'-0" (1829 mm) from the floor.

RECOMMENDED ERECTION SEQUENCE FOR INTERIOR LOCKER-OPERATED LOCKERBASKET® – CONTINUED

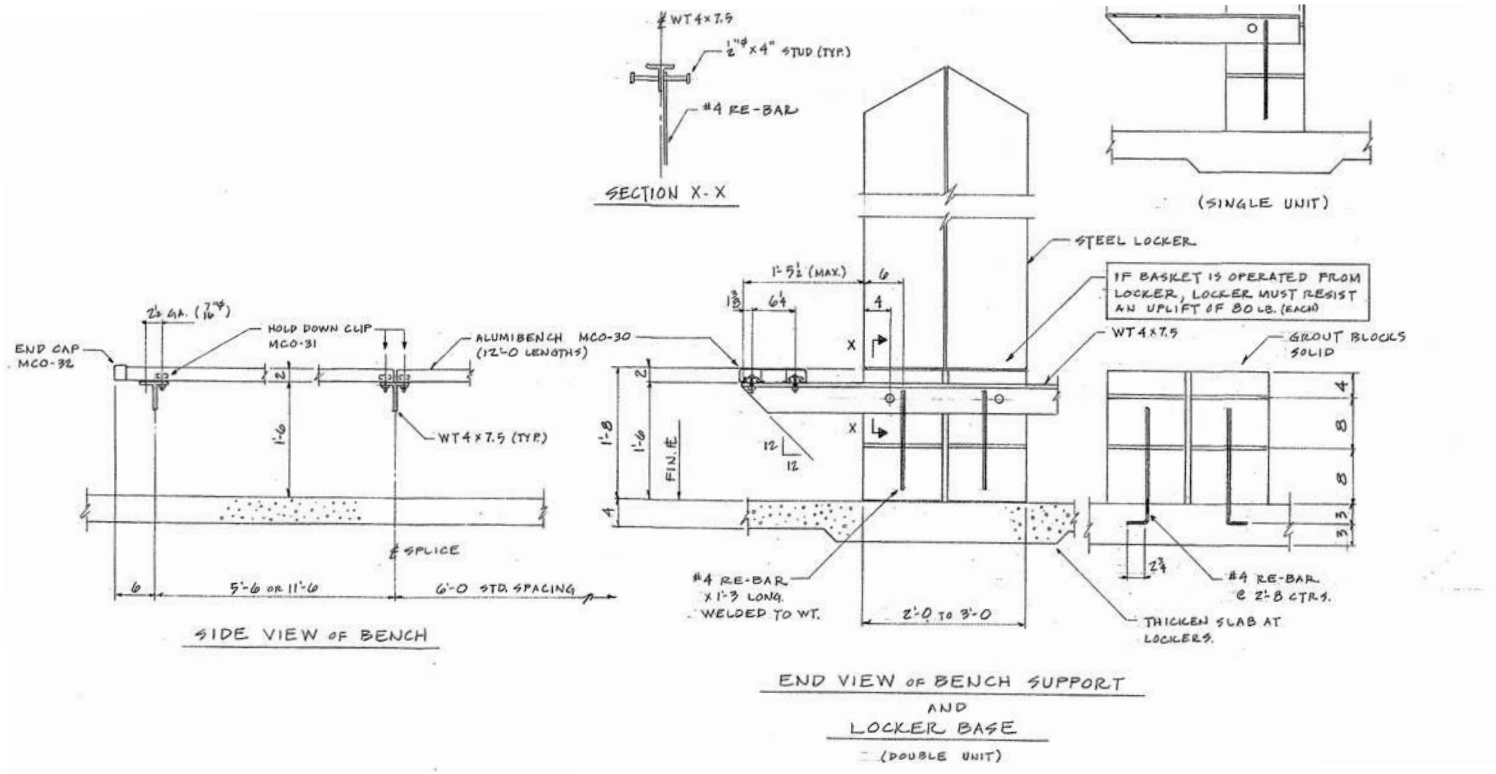
3. Form a cable eye as previously described. It is important to use a thimble for this standard cable loop connection and to crimp the aluminum duplex serving sleeve three (3) times to prevent failure of the loop. Slide the vinyl sleeve guard over the crimped serving sleeve.
4. Connect the cable loop to the Basket Coupler using the 1/8" quick link that is attached to the double swivel. Ensure the gates on the quick links are securely closed in the lock position. Temporarily place the MCO-90A Descent Control Device Reel inside the wire basket.
5. Raise the LOCKERBASKETS® to its fully raised and locked position.
6. Insert an MCO-8 Hanger Bolt into the MOORFRAME® no further than 1'-0" to any one side of the support pulley that is located over the basket being installed. Secure into place by tightening the nut.
7. Remove the Descent Control Device from inside the wire basket and using the MCO-38 (3/8") Quick Link, connect the swivel stem on the Descent Control Device to the MCO-8 Hanger Bolt and tightly and securely screw the MCO-38 (3/8") Quick Link gate closed.
   NOTE: If the MOORFRAME® is greater than 17'-0" above the finished floor, the installer will need to field cut a polycore cable extender to allow the MCO-90C Basket Coupler to hang approximately 15' above the finished floor, such that the Descent Control Device hangs ABOVE the basket and the nylon webbing has no tension on it and minimal slack. See instructions for MAKING A CABLE EXTENDER (LANYARD).
8. Test the installation of the LOCKERBASKET® and the Descent Control Device following the procedure outlined in STEP#7.
   NOTE: If either swivel (installed in STEPS# 4-1, 7B-4) do not freely rotate simply apply WD-40 or equivalent lubricant.

CAUTION
DOUBLE CHECK TO ENSURE MCO-38 QUICK LINK GATE IS TIGHTLY AND SECURELY SCREWED CLOSED.

8 Inspect and test assembly

1. The LOCKERBASKET®, when lowered, should hang approximately 5'-0" (1520 mm) above the floor.
2. Inspect all nuts, bolts and mechanical connections to ensure unit is in safe and proper working order. Ensure that there are three (3) crimps on each of the sleeves used to form the cable loops.
3. Test the LOCKERBASKET® by raising and lowering it, checking for ease of operation and that the parts are properly located in the assembly. Should you have any questions, contact The Moore Co.
4. If a Descent Control Device was installed, check to ensure that the nylon webbing is free from all obstructions, heaters, sharp objects and is allowed to freely spool and unspool from Descent Control Device. The nylon webbing, when the basket is fully raised and locked into position, should have no tension on it and only minimal slack.
5. Give padlocks to Owner, if part of order and mount safety and use wsignage provided with order by all entrances.

DETAILS FOR CANTILEVERED BENCH SUPPORTS FOR RAISED FLOOR LOCKER INSTALLATION



RECOMMENDED SEQUENCE FOR EXTERIOR LOCKER-OPERATED LOCKERBASKET®

Assemble floor Lockers and locker pedestals according to manufacturer's instructions and architects plans and specifications.

1 **Assembly of Overhead MOORFRAME® Collector and Support Rails**

Have Crew break out MOORFRAME®, measure and cut all collector and support rails. Lay out on floor according to overhead position (keep floor clear for scaffolding). Ensure that you align the collector rail directly over the FRONT EDGE of the floor locker **and the first row of MOORFRAME® supporting rails begins 3'-9" (1143) from the front of the wall locker.** Space all subsequent supporting rails 2'-0" apart. See Technical Data on pages 12, 13 and 14.

2 **Welding or Bolting of MOORFRAME® to the Structural Frame**
(For concrete and wood structures, see details on page 13)

1. Beginning at an end bay and using layout drawings, place a chalk mark where the center line of each collector and support rail is to be connected to the bottom cord of joist or purlin and continue until all connection points have been correctly marked.
2. Weld or bolt all collector and support rails to joist or purlins, per MOORFRAME® connection details on pages 12, 13 and 14.

3 **Install Lockers and Bench Support Units accordig to manufacturer's instructions and/or architect's plans and specifications**
Suggested details for a Cantilevered Bench Supports for raised floor installation are provided on page 8 for your consideration.

4 **Assembly of LOCKERBASKETS® and Locker Operating Equipment**
ATTENTION: If installing the Descent Control Device, begin with #1. If install does not include a Descent Control Device, begin with #2.

1. Insert the Two hook Hanger through the double swivel that is attached to the bottom slot in the MCO-90C Basket Coupler (metal plate that is attached to the MCO-90A Descent Control Device's nylon strap.) Ensure that the swivel loop is fully and properly seated inside the top loop of the basket hanger. Please see sketch on page 4.
2. Slide the two-hook hanger over the wire basket and into the grooves in the basket rim. The rim of the basket should rest on the both hanger notches.
3. Insert guide bolts over the hanger hook shaft and through the holes in the basket strap. Secure in place with a 1/4" nut.
4. Place one vinyl hook guard on each garment hook and twist downward into place.

5 **Connection of chain hoist assembly to exterior locking bolt**

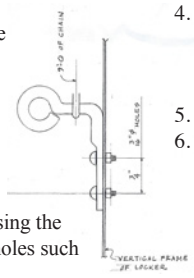
1. Determine the ceiling height from the bottom cord of the joist where the collector rail will be attached to the floor. The chain is precut to 9'-0" lengths for ceiling heights of 16'-0" or greater. If the ceiling height is lower, shorten the chain as follows:

Ceiling Height	Chain Length	Length Adjustment
16'-0" 4880 mm or higher	9'-0" 2740 mm	No Cutting Necessary
15'-0" 4570 mm	8'-0" 2440 mm	Remove 1' 0" of chain
14'-0" 4270 mm	7'-0" 2130 mm	Remove 2'-0" of chain

2. Fully open one MCO-13 Quick Link and insert the threaded end of the Quick Link through the end link at one end of the MCO-100 chain.
3. Insert the threaded end of the MCO-13 Quick Link into the swivel end of the MCO-20 Locking Swivel.
4. Close the MCO-13 Quick Link opening and securely tighten the MCO-13 Quick Link.

CAUTION
ENSURE THE NUT IS TIGHTENED SUCH THAT QUICK LINK WILL NOT OPEN

5. On the exterior frame (unhinged side) of the floor locker, and using the MCO-46 Locking Bolt as a template, drill two 3/16" diameter holes such that the center line of the Locking Bolt loop is 4'-6" above the finished floor.
6. Insert the MCO-46 Locker Locking Bolt through the last link of the MCO-100 chain at the end without the MCO-20 Locking Swivel.
7. Attach the MCO-46 Locking Bolt to the exterior Locker frame.



WARNING
ENSURE THAT THE LOCKER LOCKING BOLT IS PROPERLY ALIGNED SUCH THAT THE MOUNTING BOLTS ARE BELOW THE EYE AND ARE SECURELY TIGHTENED.
IMPROPER INSTALLATION COULD CAUSE SEVERE INJURY.

6 **Install pulleys into overhead framing**

1. Inspect pulley to ensure the sheave spins freely and the cotter pin is properly secured with its ends bent back.
2. Attach pulleys to MOORFRAME® collector rail such that the cable will descend vertically inside the floor locker without touching the sheet metal. Insert curved end of MCO-8 Hanger Bolt through proper hole in MOORFRAME®. Slip top link of pulley on to the Hanger Bolt and insert the straight end of the Hanger Bolt into the other end of the MOORFRAME®. Secure with locking nut. Ensure all bolts protrude below the MOORFRAME® flanges.
3. Attach support pulleys to the MOORFRAME® support rails every 2'-0" (610 mm) on center, per instructions in STEP # 6 on page 5.

7A **Connect Cable to Cushion Spring Assembly and Basket (see page 4 for exploded view)**
If installing a Descent Control Device, disregard Step 7A and proceed to Step 7B.

1. Beginning from the LOCKERBASKET® end, thread the Polycore cable through the two pulleys (support and then collector pulley) and down to the Locking Swivel for that specific LOCKERBASKET®. Attach the cable to the swivel-locking plate as outlined on page 1.
2. Pull the polycore cable to extend the cable to its full length and cut the polycore cable 6'-0" (1829 mm) from the floor.
3. Form a cable eye as previously described. It is important to to crimp the aluminum duplex serving sleeve three (3) times to prevent failure of the loop.
4. Slide the vinyl sleeve guard over the crimped serving sleeve. Push cable eye through the hole in the spring cover, then place one spring link through the cable eye. Squeeze the ends of the spring link together and slip through the spring until the loops engage the top of the spring. Slide the second spring link through top of LOCKERBASKET® hangar and then through the cushion spring. Slide the vinyl cover over the top of the spring.

7B **Attach cable to DCD's Basket Coupler and Hoisting Assembly (see page 4 for exploded view)**
NOTE: Disregard if not installing a Descent Control Device.

1. Beginning from the LOCKERBASKET® end, thread the Polycore cable from the cable spool through the two pulleys (support and then collector pulley) and down the Locking Swivel for that specific LOCKERBASKET®. Attach the cable to the Locking Swivel as outlined on page 4. Refer to page 3 for making a proper cable loop.
2. Pull the polycore cable to extend the cable and chain to their full length and cut the polycore cable 6'-0" (1829 mm) from the floor.
3. Form a cable eye as previously described. It is important to use a thimble for this standard cable loop connection and to crimp the aluminum duplex serving sleeve three (3) times to prevent failure of the loop. Slide the vinyl sleeve guard over the crimped serving sleeve.
4. Connect the cable loop to the Basket Coupler using the 1/8" quick link that is attached to the double swivel. Ensure the gates on the quick links are securely closed in the lock position. Temporarily place the MCO-90A Descent Control Device Reel inside the wire basket.
5. Raise the LOCKERBASKETS® to its fully raised and locked position.
6. Insert an MCO-8 Hanger Bolt into the MOORFRAME® no further than 1'-0" to any one side of the support pulley that is located over the basket being installed. Secure into place by tightening the nut.

RECOMMENDED SEQUENCE FOR EXTERIOR LOCKER-OPERATED LOCKERBASKET®
– CONTINUED

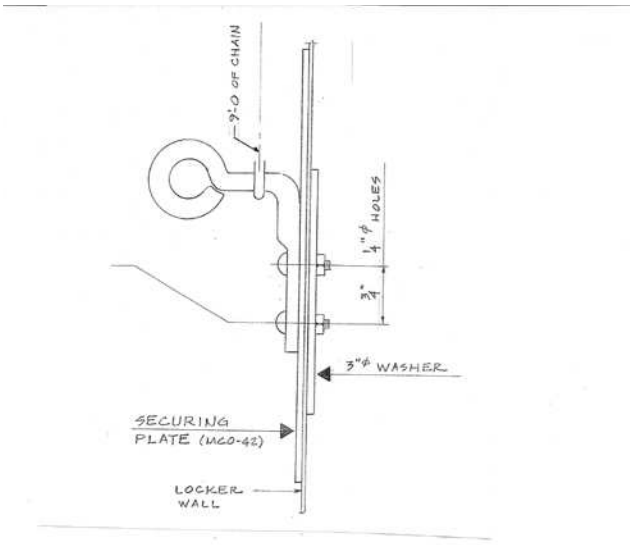
7. Remove the Descent Control Device from inside the wire basket and using the MCO-38 (3/8") Quick Link, connect the swivel stem on the Descent Control Device to the MCO-8 Hanger Bolt and tightly and securely screw the MCO-38 (3/8") Quick Link gate closed.
   NOTE: If the MOORFRAME® is 17'0" or higher above the finished floor, the installer will need to field cut an extender (lanyard) to allow the MCO-90C Basket Coupler to hang approximately 15' above the finished floor, such that the Descent Control Device hangs ABOVE the basket and the nylon webbing has no tension on it and minimal slack. See instructions for making a CABLE LANYARD or OPTIONAL CHAIN LANYARD on page 7.
8. Test the installation of the LOCKERBASKET® and the Descent Control Device following the procedure outlined in STEP#7.
   NOTE: If either swivel (installed in STEPS# 4-1, 7B-4) do not freely rotate simply apply WD-40 or equivalent lubricant.

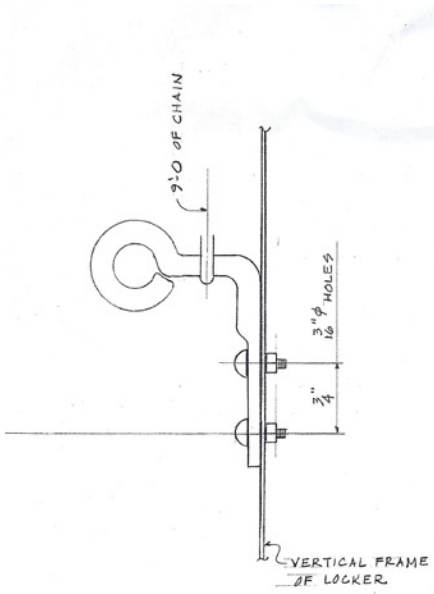
CAUTION
DOUBLE CHECK TO ENSURE MCO-38 QUICK LINK GATE IS TIGHTLY AND SECURELY SCREWED CLOSED.

8 **Attach Warning Label, inspect and test assembly**

1. Attach Warning Label supplied to the inside locker door such that it is visible and easy for the operator to read.
2. The LOCKERBASKET®, when lowered, should hang approximately 5'-0" (1520 mm) above the floor.
3. Inspect all nuts, bolts and mechanical connections to ensure unit is in safe and proper working order. Ensure that there are three (3) crimps on each of the sleeves used to form the cable loops.
4. Test the LOCKERBASKET® by raising and lowering it, checking for ease of operation and that the parts are properly located in the assembly. Should you have any questions, contact The Moore Co.
5. Check to ensure that the nylon webbing is free from all obstructions, heaters, sharp objects and is allowed to freely spool and unspool from Descent Control Device. The nylon webbing, when the basket is fully raised and locked into position, should have no tension on it and only minimal slack.
6. Give padlocks to Owner, if part of order, and mount safety and use signage provided with order by all entrances.

DETAILS FOR LOCKER-OPERATED LOCKERBASKET® SYSTEM





INSTALLATION INSTRUCTIONS FOR WAITING ROOM BENCH AND BACKREST

Parts required for assembly

• MCO- 30	Alumibench (12'-0" sections)
• MCO- 32A	Alumibench Protective Bench End Caps
• MCO- 34X	Free Standing Pedestals
• MCO- 31A	Hold down clips (2 per pedestal and two per stanchion)
• MCO- 31X &31Y	Carriage Bolt and nut
• MCO- 32Y	1/8" diameter x 1/4" grip Aluminum drive Rivet for connecting bench end caps backrest and end caps
• MCO- 56	Backrest (12'-0" sections)
• MCO- 57X	Backrest stanchions
• MCO- 58A	Backrest end caps

Material By Others

• Hilti Kwik bolt stud anchor 3/8" diameter by 2 3/4" long or equal.

Tools Required By Others

• Electric drill and 1/8" drill bit(s)
• Saw for cutting aluminum bench sections
• 3/8" wrench
• Aluminum file
• Hammer

Bench Seat Installation Steps

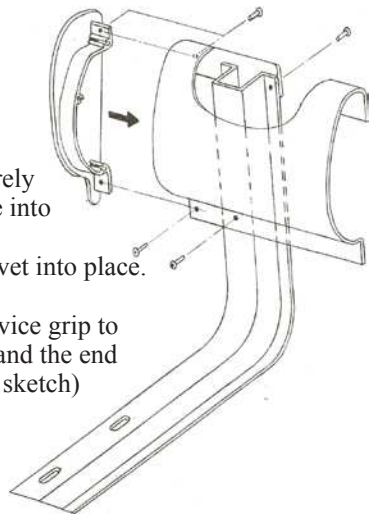
1. Locate position of bench per Plans.
2. Beginning at one end of a bench run, place a Free Standing Pedestal on floor. Accounting for the desired 1 1/2" minimum to 12" maximum overhang, place Free Standing Pedestal on floor. Using pedestal as a template, drill 3/8" holes in floor.

NOTE: The maximum span for ALUMIBENCH Plank is 6'-0". Use three (3) Free Standing Pedestals for each 12'-0" run of bench.

3. Install expansion anchors in floor. The Moore Company recommends Hilti Kwik bolt stud anchor 3/8" diameter by 2 3/4" long or equal.
4. Repeat every 6'-0".
5. Place benches on pedestals.
6. Saw benches to required length, splicing over center of pedestal. End of bench to have 1 1/2" to a 1'-0" maximum overhang. File saw cuts smooth. Install optional joint covers, if desired
7. Attach benches with Hold Down Clip assembly on underside.
8. Attach bench end caps with aluminum rivets, one on each end (2 rivets per end cap), by inserting an Aluminum drive rivet into each hole and with a hammer drive pin into rivet head to secure rivet into place.

Backrest Installation Steps

1. Cut backrests to proper length, if necessary. File saw cuts smooth.
2. Next to each of the Free Standing Pedestals, connect a stanchion to the underside of the Alumibench using Hold Down Clip assembly.
3. Place the curved end of the Bench Backrest over end of stanchion so that the straight lip rests flush against the back of the stanchion.
4. Being careful not to damage the aluminum, use a vice grip to ensure the backrest is properly and securely against the stanchion, then drill a 1/8" hole through the bottom lip and the stanchion and a second hole into the backside of the curved top of the Bench Backrest and the stanchion. (See sketch)
5. Insert an Aluminum drive rivet into each hole and with a hammer drive pin into rivet head to secure rivet into place.
6. Repeat at every stanchion.
7. Place end cap into the end of the backrest. Being careful not to damage the aluminum, use a clamp or vice grip to hold the end cap properly and securely in place, then drill a 1/8" hole through the backrest bottom lip and the end cap and a second hole into the backside of the curved top of the Bench Backrest and the end cap. (See sketch)
8. Insert a drive rivet into each set of holes and fasten into place.



MOORFRAME TECHNICAL DATA

MOORFRAME AS COLLECTOR RAIL SPAN TABLE

Roof structure must be designed by a design professional to withstand a 10 PSF (49 kg per m²) uniform load caused by loaded LOCKERBASKETS in addition to roof loads determined from appropriate building codes and local conditions. The design professional must also separately consider the point loads caused by the reaction of the collector rail. Each LOCKERBASKET load should be limited to 30 pounds.

SPAN		SIMPLE OR DOUBLE SPANS		CONTINUOUS SPANS	
IMPERIAL (Feet)	METRIC (mm)	Total number of rows of Baskets served by collector rail	Max. number of rows of Baskets on one side of collector rail.	Total number of rows of Baskets served by collector rail	Max. number of rows of Baskets on one side of collector rail.
UP TO 8'-0"	UP TO 2440	6	4	8	5
8'-6"	2590	6	3	7	4
9'-0"	2740	5	3	6	4
9'-6"	2900	4	3	6	3
10'-0"	3050	4	2	5	3

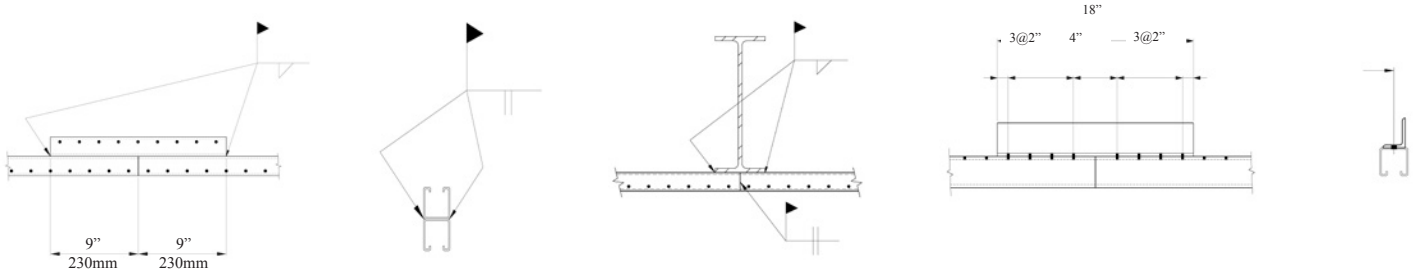
ALL SPANS OVER 10'-0" (3050 mm) CONSULT THE MOORE COMPANY, INC.
NOTE: When MOORFRAME is used as a support rail, maximum clear span is 10'-0" (3050 mm)
When MOORFRAME is used as a collector rail, maximum clear span is 6'-0" (1828 mm)

MOORFRAME BRIDGING DIAGRAM

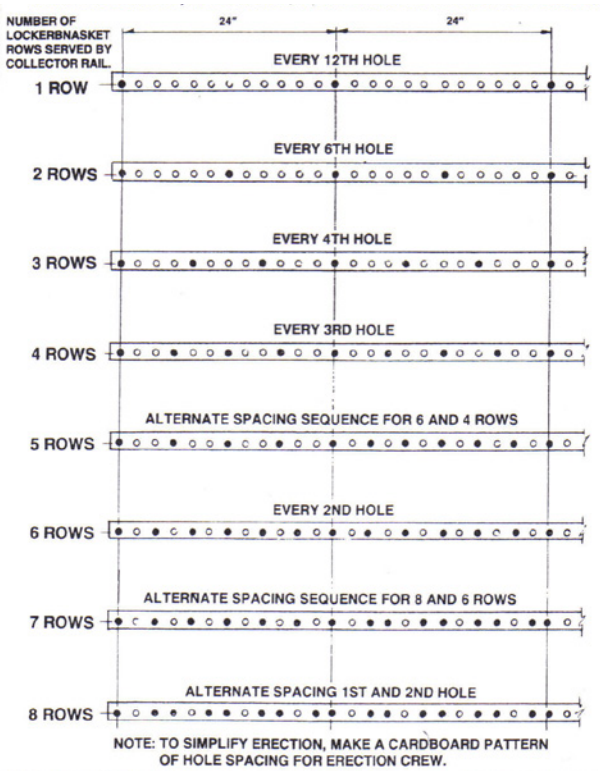
No bridging is required for clear spans under 8'-0" (2440 mm). Spans over 10'-0" (3050 mm), consult The Moore Company, Inc. Ends of bridging lines must be firmly anchored to walls or attached to structural member.

SPLICING MOORFRAME

All splicing should be done at a framing support point. Butt sections and weld as shown. Use sufficient amount of 1/8" (3 mm) E70 series welding rods or equal. **All welded or bolted splices should be made at quarter points between supports.**



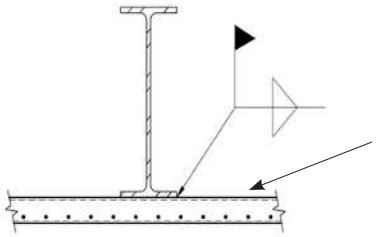
ANCHOR HOOK HOLE SPACING ON LOCKING RAIL AND PULLEY HOLE SPACING ON COLLECTOR RAIL



MOORFRAME CONNECTING DETAILS

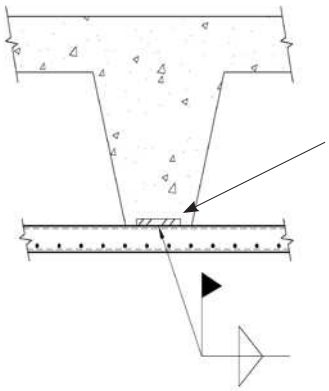
WELDING MOORFRAME TO STRUCTURE BY:

Welding to structural steel



MOORFRAME (as collector rail OR Support rail)

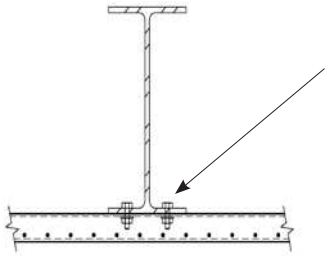
Welding to steel plate embedded in concrete structure



Embedded Steel Plate

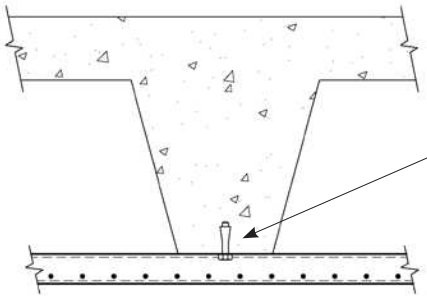
BOLTING MOORFRAME TO STRUCTURE BY:

Bolting to steel structure



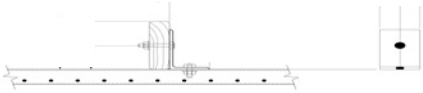
3/8” Bolt with washer and Nut (typical) by others. Drill 7/16” holes in steel and MOORFRAME.

Bolting to concrete structure



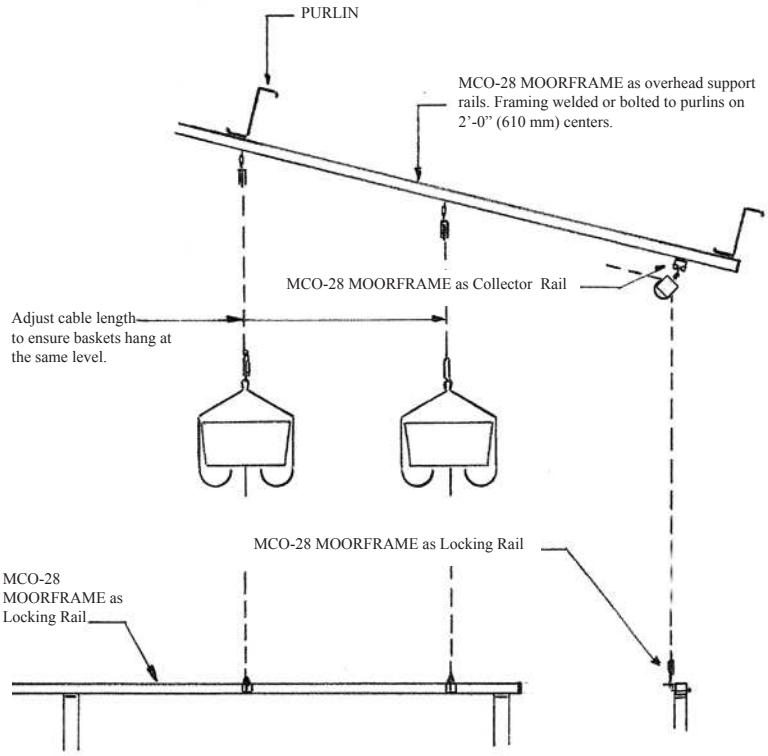
3/8” Hilti Kwik expansion anchor (B/O). Drill 7/16” Holes in concrete and MOORFRAME.

Bolting to wood structure

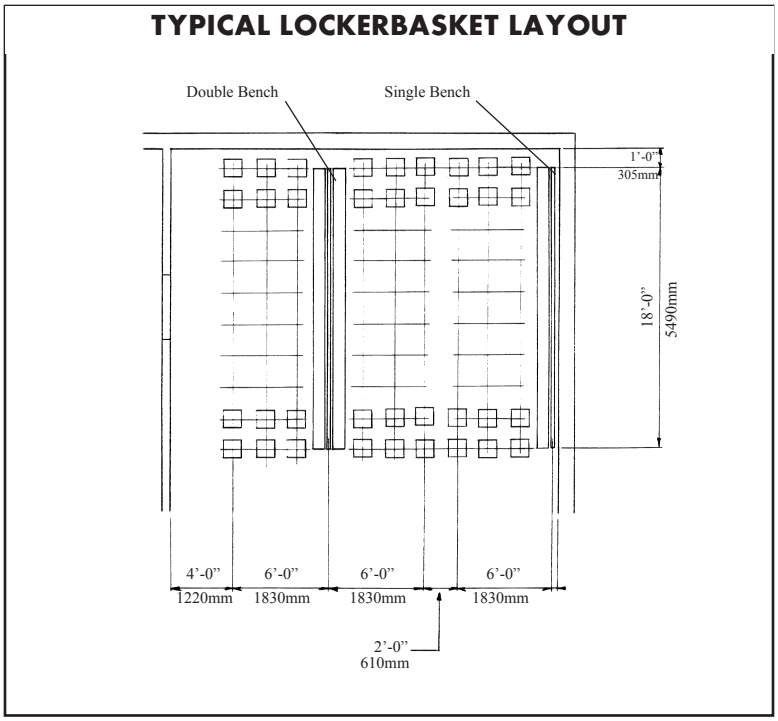


1. Clip may be fabricated from 1/8” plate or angle by others.
2. Hole in wood must be over half the depth from the bottom to prevent splits.
3. It is the owner’s sole responsibility to determine the structural characteristics of the wood joist used and that the location of the connection points for the actual design load of the wood joists are capable of supporting the MOORFRAME members and LOCKERBASKET system.
4. All bolts are 3/8” machine bolts with washers and nuts by others.

STANDARD ATTACHMENT FOR OVERHEAD FRAMING



TYPICAL LOCKERBASKET LAYOUT



COMBINATION FLOOR LOCKER AND LOCKERBASKET SYSTEM

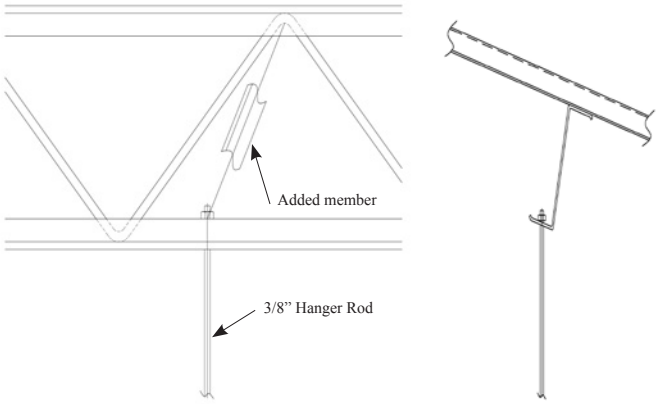
Details of common floor locker and LOCKERBASKET System layouts are provided in subsequent pages of this installation pamphlet. The installation of a combination floor locker and LOCKERBASKET system generally follows the preceding instructions. Installation instructions for the assembly of wall lockers should adhere to that manufacturer's installation instructions with accommodations being made for the placement of the floor lockers.

It is important to ensure the architect's layout for the LOCKERBASKET System does not conflict with existing overhead ducts, structural framing or obstructions. The Moore Company recommends that the installer begin with the installation of the LOCKERBASKET System before installing the floor lockers. This will provide the installer with maximum flexibility in adjusting for varying field conditions that may already exist. It is also important for the installer to pair the floor lockers and LOCKERBASKETS closely enough for the assigned employee to conveniently change clothes.

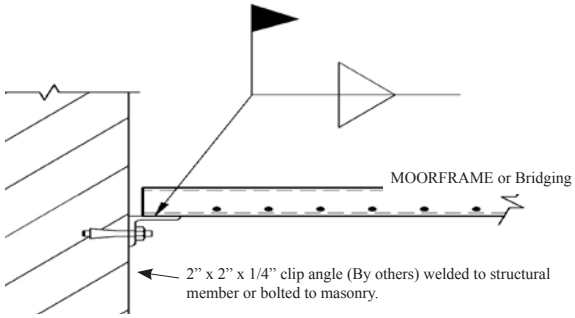
SUSPENDED OVERHEAD FRAMNG SYSTEM ATTACHMENT DETAILS

NOTE: If hanger rod is not at a joist panel point, add web member in field.

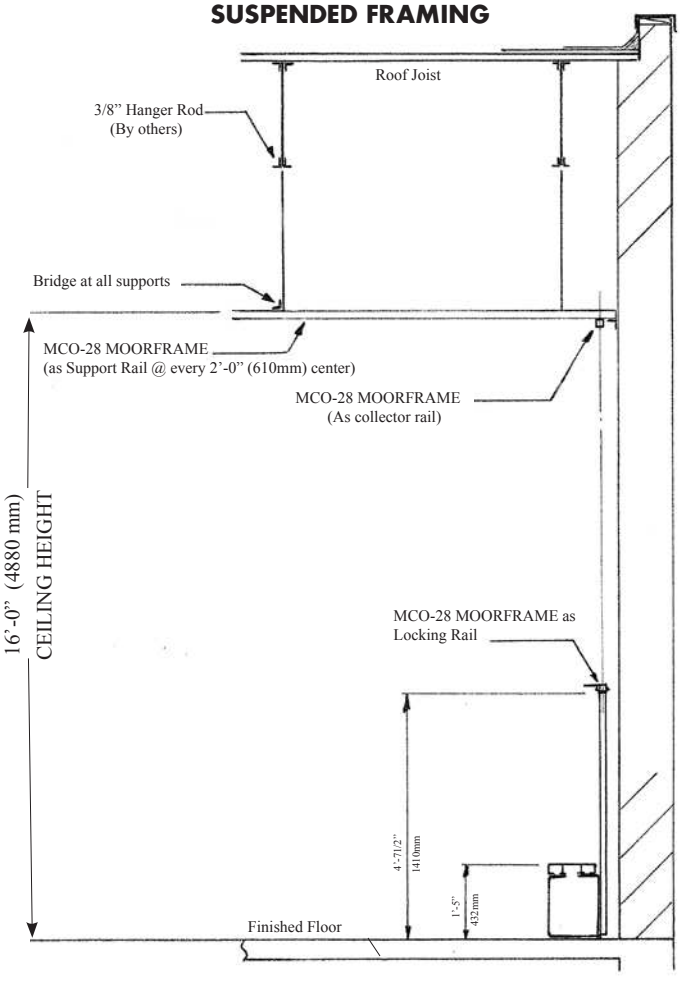
NOTE: Cold rolled purlins must be bridged at hanger rods to prevent rotation.



TERMINATION OF MOORFRAME / BRIDGING AT WALL

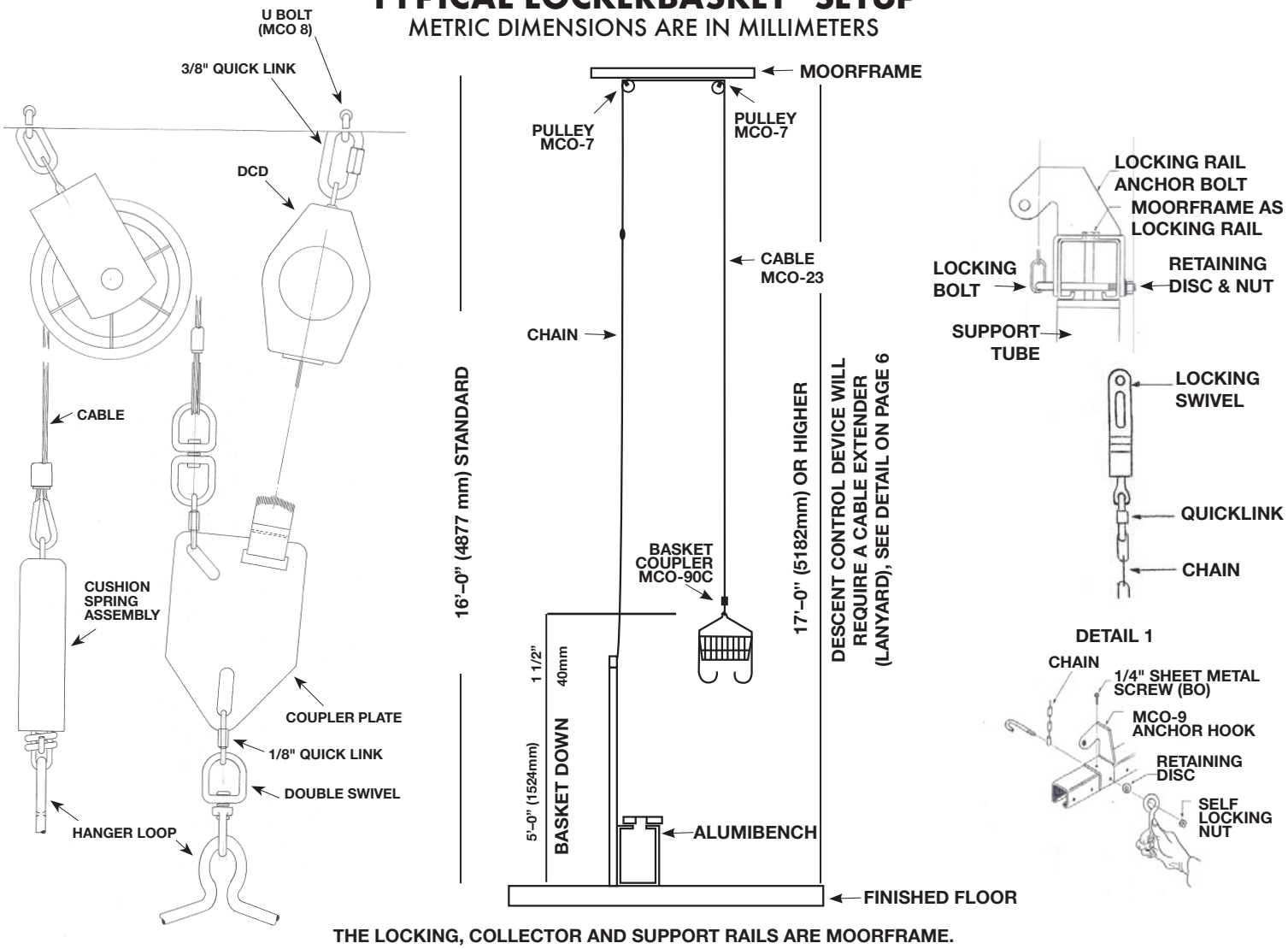


CROSS SECTION SHOWING SUSPENDED FRAMING

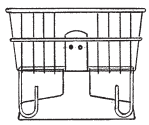


TYPICAL LOCKERBASKET® SETUP

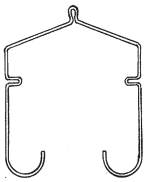
METRIC DIMENSIONS ARE IN MILLIMETERS



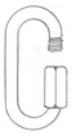
THE LOCKING, COLLECTOR AND SUPPORT RAILS ARE MOORFRAME.
ALL PARTS ARE DESIGNED SPECIFICALLY FOR USE IN THE LOCKERBASKET® SYSTEM.



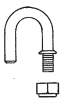
MCO-1A
LOCKERBASKET



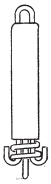
MCO-2
TW0-HOOK
HANGER



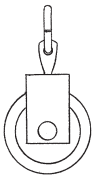
MCO-13
QUICKLINK



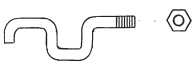
MCO-4
GUIDE BOLT



MCO-5
SPRING ASSEMBLY



MCO-7
PULLEY



MCO-8
HANGER BOLT

MCO-23
POLYCORE CABLE

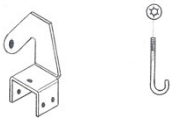
MCO-24
SERVING SLEEVE

MCO-16
NUMBER PLATE

MCO-17
PADLOCK

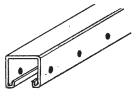
MCO-90
DESCENT
CONTROL
DEVICE

MCO-20
LOCKING
SWIVEL

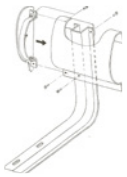


MCO-9 ANCHOR HOOK
MCO-9B HOOK BOLT

MCO-25
THIMBLE

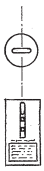


MCO-28
MOORFRAME

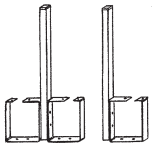


MCO-57
STANCHION
MCO-56
BACKREST

MCO - NUMBER TAG



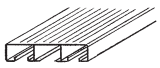
MCP-8
SECURING
PLATE
ASSEMBLY



MS-372 DOUBLE
MS-371 SINGLE
PEDESTAL SUPPORT
UNITS

MCO-34
FREE-
STANDING
PEDESTAL

MCO-40
LOCKING
RAIL END
CAP



MCO-30
ALUMIBENCH

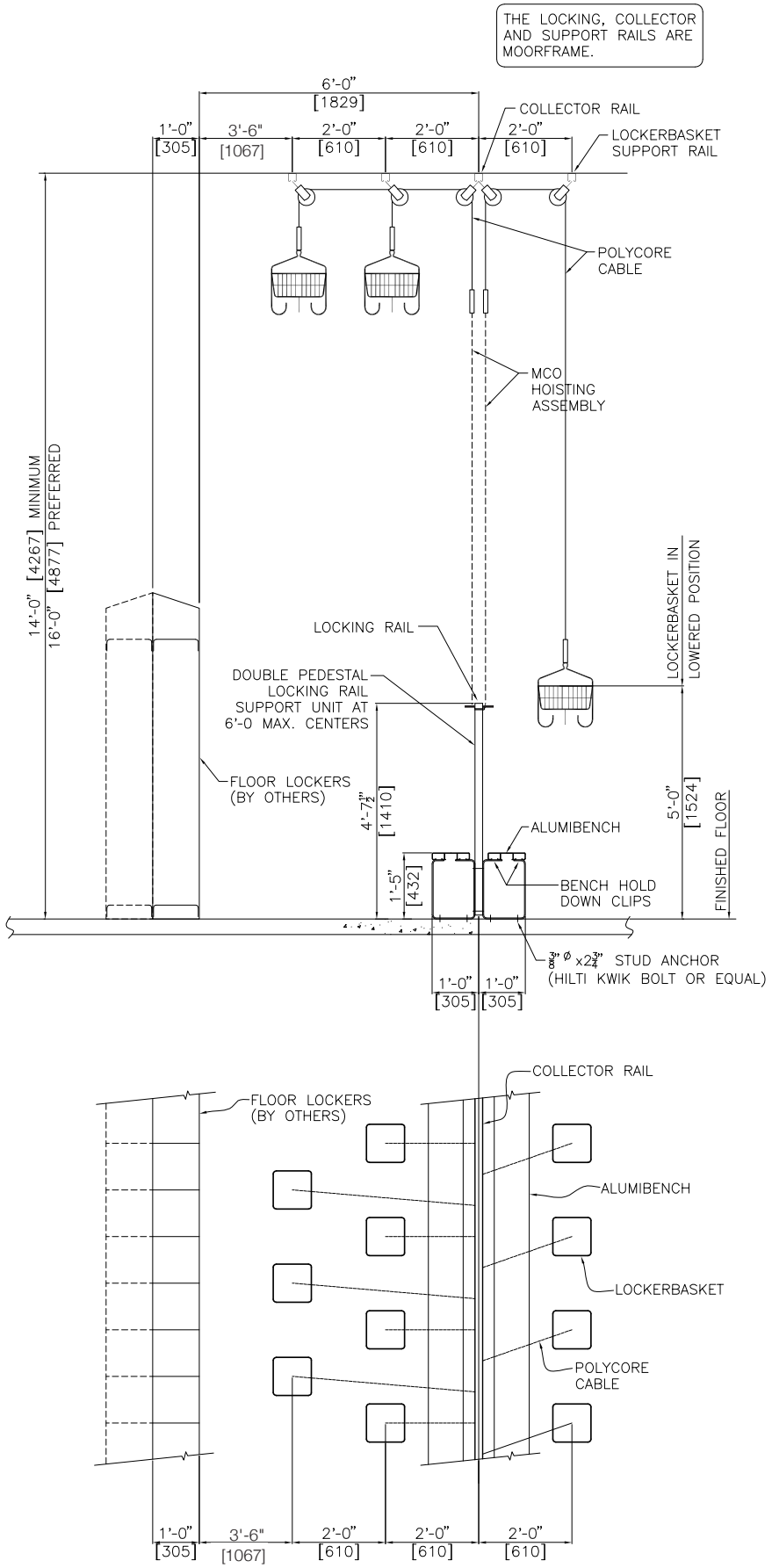
MCO-32
BENCH END CAP

MCO-100
CHAIN

MCP-1
SECURITY TOP

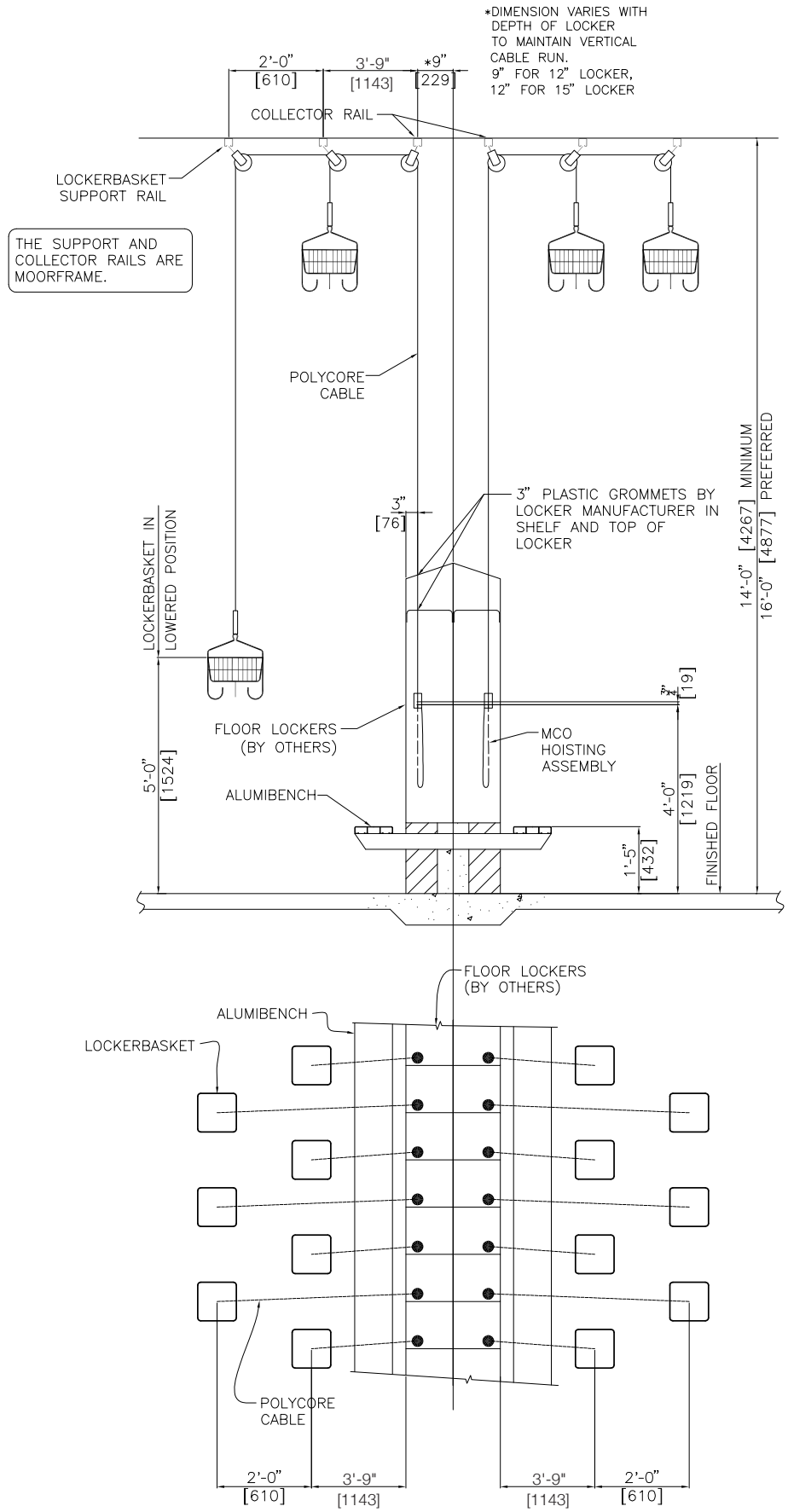
MSA-10
CHAIN HOIST ASSEMBLY

MS-10 STANDARD LOCKERBASKET LAYOUT WITH STAND ALONE LOCKERS



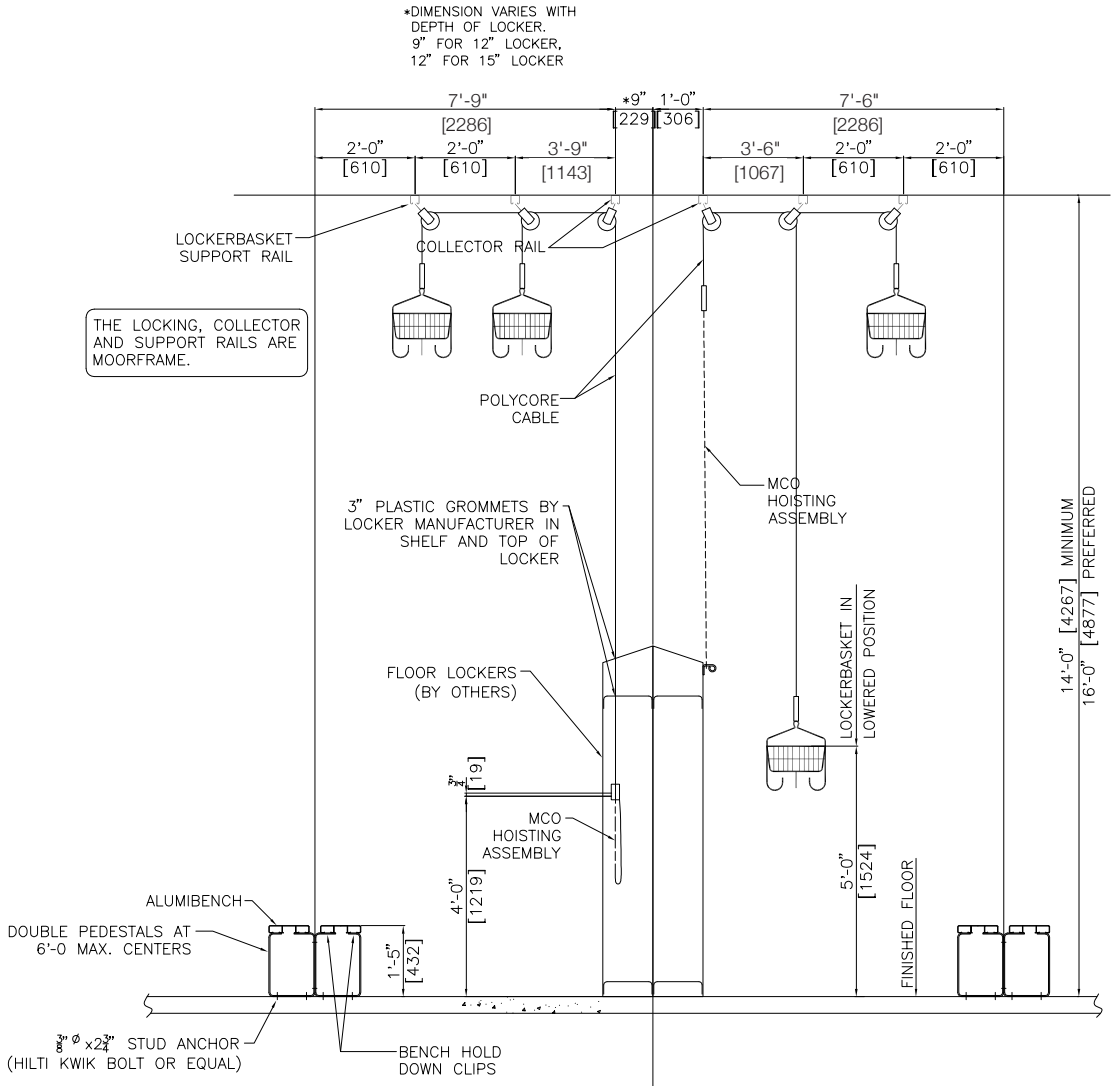
PLAN VIEW

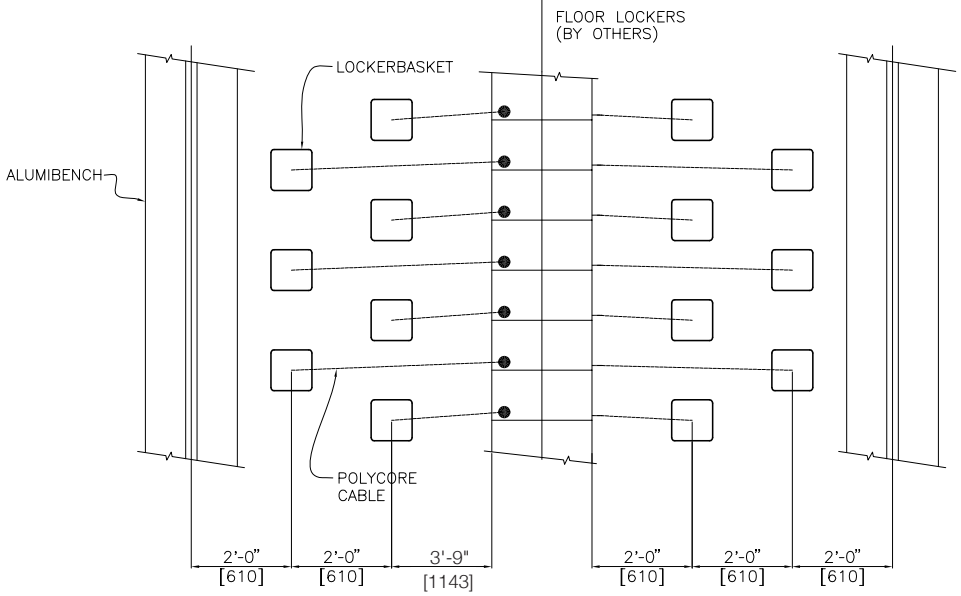
MS-80 LOCKER OPERATED SYSTEM—PEDESTAL MOUNTED



PLAN VIEW

MS-80 LOCKER OPERATED SYSTEM WITH FREE STANDING PEDESTAL BENCH SUPPORTS





PLAN VIEW

RETROFIT INSTALLATION INSTRUCTIONS FOR DESCENT CONTROL DEVICE TO AN EXISTING MOORE LOCKERBASKET® SYSTEM

THE MOORE COMPANY DESCENT CONTROL DEVICE IS INTENDED FOR USE WITH AND ONLY ON THE MOORE COMPANY LOCKERBASKET® SYSTEM THAT HAS BEEN PROPERLY INSTALLED IN ACCORDANCE WITH THE MOORE COMPANY INSTALLATION INSTRUCTIONS. THE DEVICE IS NOT INTENDED FOR USE IN ANY OTHER SYSTEM OR FOR ANY OTHER PURPOSE.

Parts Required

Retrofit parts required (per unit) for MS-90R Descent Control Device attachment to a standard Moore LOCKERBASKET® System. Use only Moore designated and supplied parts:

- MS - 90 — One (1) MCO-90A Descent Control Device with MCO-38 (3/8") Quick Link and one MCO-90C Basket Coupler attached
- MCO-8 — One (1) Hanger Bolt with nut (for securing Descent Control Device or lanyard to MOORFRAME® rails)
- MCO-24 — One (1) Serving Sleeve (for reforming cable loop through basket coupler)
- MCO-25 — One (1) Thimble (for reforming cable loop through basket coupler)
- MCO-14 — One (1) (1/4") Quick Link (larger link for attaching hanger hook to Basket coupler)

Where the height of the MOORFRAME® rail is 17'-0"or higher from the finished floor, the following additional parts are also required:

CABLE LANYARD

- MCO-23 — Polycore cable, field cut to length as determined by the distance of the MOORFRAME® rails over 17'-0" from finished floor.
- MCO-24 — One (1) Serving Sleeves (for forming a cable loop with thimble around the MCO-8 Hanger Bolt and the MCO-38 (3/8") Quick Link
- MCO-25 — One (1) Thimble (for reforming cable loop around MCO-8 Hanger Bolt. One is not needed for the cable loop around Descent Control Device's MCO-38 (3/8") Quick Link)
- MCO-19 — Two (2) Vinyl Sleeve Guards
- MCO- 26 — One (1) Crimping Tool
- MCO- 27 — One (1) Cable Cutter

OPTIONAL CHAIN LANYARD (for ceiling heights 17'-25' only)

- MCO-100 — Chain (sold in 9'-0" lengths. Field cutting may be required. Specify quantity)
- MCO-13 — One (1) (13/16") Quick Link (for connecting chain to MCO-38)

Tools Required

- Pliers
- Scaffolding / Scissor Lift tall enough to safely and securely access overhead MOORFRAME®, rails in accordance with all applicable OSHA, MSHA, State and Local Safety Regulations.

WARNING

FAILURE TO READ AND COMPLY WITH THESE INSTRUCTIONS OR ANY ONE OF THE LIMITATIONS NOTED HEREIN CAN RESULT IN SERIOUS BODILY INJURY OR DEATH, AND/OR PROPERTY DAMAGE.

Proper use of the Descent Control Device can reduce the potential for serious injuries from a falling LOCKERBASKETS® PLEASE READ AND FOLLOW ALL INSTRUCTIONS. Consult The Moore Company, Inc. if there is any question about the installation or use of this product.

THESE INSTRUCTIONS ARE FOR THE INSTALLATION OF THE MOORE LOCKERBASKET® SYSTEM. ALL REFERENCES TO THE SYSTEM OR ANCHOR POINTS MEAN THE MOORE LOCKERBASKET® SYSTEM AND THE MOORFRAME® IN THE MOORE LOCKERBASKET® SYSTEM. THE INDIVIDUAL PARTS AND THE SYSTEM ARE NOT DESIGNED OR INTENDED FOR ANY PUROSE OTHER THAN IN THE MOORE LOCKERBASKET® SYSTEM AND ONLY IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS FOR THE LOCKERBASKET® SYSTEM AND THESE INSTRUCTIONS.

ANCHOR POINTS AND CONNECTIONS: The Descent Control Device must be securely connected to The Moore Company MOORFRAME® rails as detailed below or as referenced in other sections of the installation instructions.

BEFORE INSTALLING THE DESCENT CONTROL DEVICE, ENSURE THAT THE LOCKERBASKET® SYSTEM IS PROPERLY INSTALLED AND IN GOOD WORKING CONDITION. COMPLY WITH ALL WARNINGS AND INSTRUCTIONS ABOVE AND BELOW.

DESCENT CONTROL DEVICE RETROFIT

NOTICE

If the MOORFRAME® section at this basket location is 17'-0"or higher above the finished floor, the installer must make an extender (Cable or Chain Lanyard) to allow the MS-90 Descent Control Device to properly operate with the LOCKERBASKET System. See "Making an Extender (Lanyard) on page 6.

RETROFIT INSTALLATION STEPS

1. Lower the basket and remove all items in and hanging from the basket.
2. Using Moore cable cutters, cut the cable just above the cable loop connected to the cushion spring. Ensure that you maintain hold of the cable above the cut to prevent the cable from being pulled through the pulleys and falling to the floor.
3. From the newly cut end of the cable, form another cable loop through the swivel attached to the angled slot in the coupler plate . It is important to **use a thimble** for this connection and to crimp the aluminum duplex serving sleeve three (3) times. Slide the vinyl sleeve guard over the crimped serving sleeve. See page 3 for forming a proper cable loop.

CAUTION

DO NOT USE A QUICK LINK OR OTHER SUCH MEANS TO CONNECT THE CABLE TO THE MCO-90C BASKET COUPLER.

4. Remove the cushion spring from the hanger loop and discard.
5. Using an MCO-14 (1/4") Quick Link, connect the LOCKERBASKET to the MCO-90C Basket Coupler by inserting the Quick Link through the hanger loop and the double swivel connected to the vertical slot in the Basket Coupler and tightly and securely screw the Quick Link gate closed.

CAUTION

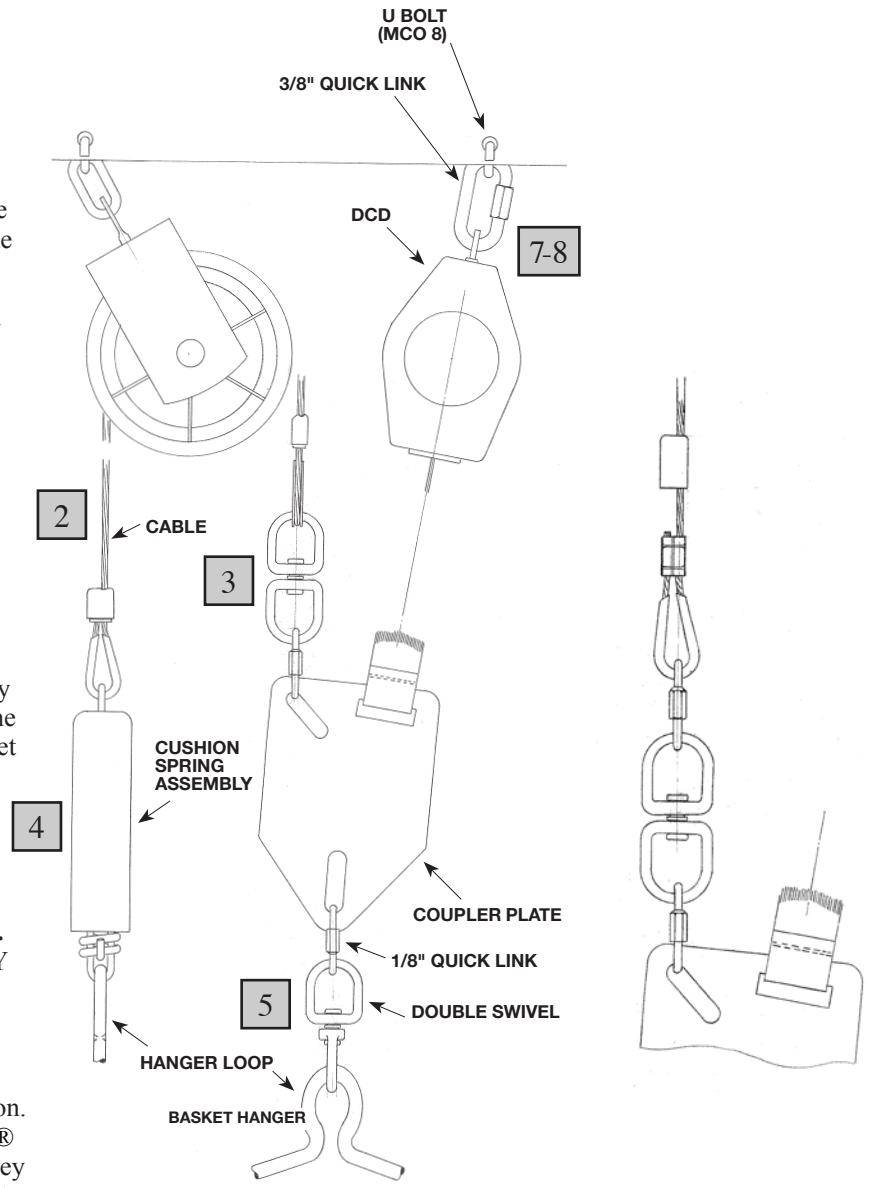
DOUBLE CHECK TO ENSURE QUICK LINK IS TIGHTLY AND SECURELY SCREWED CLOSED. ENSURE THAT THE QUICK LINK IS PROPERLY SEATED INSIDE THE HANGER LOOP. SEE SKETCH.

6. Place the MS-90 Descent Control Device in the basket and raise the basket to its full upright and locked position.
7. Insert an MCO-8 Hanger Bolt into the MOORFRAME® no further than 1'-0" to any one side of the support pulley that is located over the basket being installed. Secure into place by tightening the nut.
8. Using the MCO-38 Quick Link, connect the Descent Control Device to the MCO-8 Hanger Bolt and tightly and securely screw the Quick Link gate closed.

CAUTION

DOUBLE CHECK TO ENSURE MCO-38 (3/8") QUICK LINK GATE IS TIGHTLY AND SECURELY SCREWED CLOSED.

9. Test installation following the procedure outlined in STEP # 8 on page 6.



NOTICE

The MCO-14 (1/4") Quick Link used in STEP 5 is only to be used when retrofitting an installation that uses the old style MCO-3 Six Hook Hanger. All other hangers should be threaded through the vertical slot in the MCO-90C Basket Coupler.