



RANDY M. GOODLOE, AIA, APAC  
*A Professional Architectural Corporation*

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**Project: Repairs to SJ Welsh Middle School**

725 KIRBY ST.  
LAKE CHARLES  
LA, 70601

OFFICE  
(337) 436-3036

FAX  
(337) 436-3773

**Addendum No. 1**

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Note: This addendum shall become part of the contract and contract documents and the contractor shall be responsible for each item included in this addendum.

- Item No. 1 - See attached revised specification 09 64 20 Wood Gymnasium Flooring for Girls Gym floor.
- Item No. 2 - See attached new specification 09 64 25 Wood Gymnasium Flooring for Boys Gym floor.
- Item No. 3 - Clarification: See attached list of testing services provided by the owner. All other testing required by the specifications is the responsibility of the general contractor.
- Item No. 4 - CertainTeed is accepted as an approved manufacturer of Acoustical Panel Ceilings 09 51 13, subject to compliance with requirements of Contract Documents & Specifications.

End of Addendum No. 1

List of testing services provided by Owner/Coordinated by Contractor

|   |
|---|
| <b>Soil Testing and Site Preparations</b>               |
| Standard Proctor  |
| Nuclear Gauge   |
| Compaction/Field Density                                |
| Proof Roll  |
| Soil Classification/Atterberg                           |
| Base Course Gradation                                   |
| Sample Time   |
| Trip Charge   |
| <b>Concrete Testing Pile Caps &amp; Grade Beams</b>     |
| Design mix Review                                       |
| Concrete testing per Cylinder                           |
| Placement Observations/Quality Control/Cylinder Pick-up |
| Cylinder Pick up  |
| Trip Charge   |
| <b>Concrete Testing Building Slab</b>                   |
| Design mix Review                                       |
| Concrete testing per Cylinder                           |
| Placement Observations/Quality Control                  |
| Cylinder Pick up  |
| Trip Charge   |
| <b>Concrete Paving Inspection</b>                       |
| Design mix Review                                       |
| Placement Observations/Quality Control/Cylinder Pick-up |
| Concrete testing per Cylinder                           |
| Cylinder Pick up  |
| Trip Charge   |
| <b>Masonry &amp; Grout</b>                              |
| Quality Control/ Grout and Mortar Inspection            |
| Mortar Cubes  |
| Grout samples   |
| Cylinder Pick up  |
| Trip Charge   |
| <b>Structural Steel</b>                                 |
| Field welding Inspection CWI                            |
| Metal Deck Fastener Pattern                             |
| Bolt torque testing                                     |
| Trip Charge if applicable                               |

## SECTION 09 64 20 – WOOD GYMNASIUM FLOORING – Girls Gym

### PART 1 - GENERAL

#### 1.1 DESCRIPTION

A. Related work specified under other sections.

##### 1. CONCRETE SUBFLOORS

- a. Slab depression is:  
2-1/8” (54mm) for 25/32” (20mm) flooring and 3/8” (10mm) pad
- b. The slab shall be finished smooth to a tolerance of 1/8” in any 10’ (3mm in any 3 meter) radius by the general contractor. High spots shall be ground level, and low spots filled in with approved leveling compound by the general contractor to the full approval of the installer (Flooring Contractor).

#### 1.2 REFERENCES

A. MFMA - Maple Flooring Manufacturers Association

#### 1.3 QUALITY ASSURANCE

A. Manufacturer

1. Manufacturer of resilient flooring shall be a firm specializing in manufacturing products specified in this section.
2. Manufacturer of flooring and subfloor components must be ISO 14001:2015 Certified.
3. Basis of design shall be “Duracushion I” sports floor system as provided by Connor Sports, [www.connorfloor.com](http://www.connorfloor.com), (800-833-7144).
4. Materials other than those listed must be approved 10 days prior by written addendum. Materials from non-approved manufacturers will not be accepted.

B. Installer (Flooring Contractor)

1. The complete installation of the flooring system, as described in the scope of these specifications, shall be carried out by an experienced installer (Flooring Contractor), and the work shall be performed in accordance with most recent installation instructions of the manufacturer.
2. Installer (Flooring Contractor) shall be liable for all matters related to installation for a period of one year after the floor has been substantially installed and completed.

C. Performance Testing

1. Floor system shall have been independently evaluated according to established performance standards for the athletic flooring industry.
2. Compliance of athletic floor standard(s) for specified system as provided by Connor Sports at [www.connorsports.com](http://www.connorsports.com).

#### 1.4 SUBMITTALS

- A. Specification - Submit Duracushion I specification sheets.
- B. Sample - Submit one sample of specified system, if requested by architect.
- C. Maintenance Literature - Upon completion of floor installation, send to owner, attendants or individuals in charge and responsible for the upkeep of the building a CARE CARD. This card spells out care and maintenance instructions including temperature and humidity ranges for areas where flooring is installed.

#### 1.5 WORKING CONDITIONS

A. The wood flooring specified herein shall not be installed until all masonry, painting, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the wood floor areas. The building shall be enclosed and watertight.

- B. The concrete subfloor shall be determined dry by industry standard testing procedures, free of foreign materials and turned over to the installer (Flooring Contractor) broom clean. Moderate room temperature of 65 degrees (18 degrees Celsius) or more shall be maintained a week preceding and throughout the duration of the work. Humidity conditions within the building shall approximate the humidity conditions that will prevail when the building is occupied.
- C. Permanent heat, light and ventilation shall be installed and operating during and after installation, maintaining a range of temperature and humidity compatible with the expected low and high moisture content of the flooring. The wood moisture content range is determined by the flooring contractor based on the facility's mechanical controls and/or geographical location.
- D. Flooring must be stored in a dry, well-ventilated area, not in contact with masonry, to acclimate to building conditions and shall be installed at moisture content compatible with the normally expected environmental range of temperature and relative humidity achieved while the facility is occupied.
- E. General Contractor shall lock floor area after floor is finished to allow proper curing time. If general contractor or owner requires use of gym after proper curing time, he shall protect the floor by covering with non-marring Kraft paper or red rosin paper with taped joints until acceptance by owner of complete gymnasium floor.
- F. Working conditions as described above shall be followed. Variations and substitutions shall be submitted for approval to the architect who shall advise Connor of the same.

#### 1.6 HUMIDITY CONTROL

- A. Since all wood flooring will expand and contract as relative humidity varies, it is important to minimize extremes between low and high. Hardwood flooring is manufactured at moisture content most compatible with a 35%-50% relative humidity range. Geographical regions and available mechanicals determine the typical range of temperature and humidity for each facility. Maintaining a 15% fluctuation between highest and lowest average indoor relative humidity provides limited shrinkage and growth. Facility managers should make use of available HVAC systems to prevent excessive tightening and shrinkage of flooring.

#### 1.7 WARRANTY

- A. Connor warrants that the materials it has supplied will be free from manufacturing defects for a period of one year. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied in operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness. This warranty is expressly limited to the flooring materials (goods) supplied by Connor. This warranty does not cover floor damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent or intentional misconduct, aging, faulty building construction, concrete slab separation, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional installation of Connor flooring systems.
- B. Connor shall not be liable for incidental or consequential losses, damages or expenses directly or indirectly arising from the sale, handling or use of the materials (goods) or from any other cause relating thereto, and their liability hereunder in any case is expressly limited to the replacement of materials (goods) not complying with this agreement, or at their elections, to the repayment of, or crediting buyer with, an amount equal to the purchase price of such materials (goods), whether such claims are for breach of warranty or negligence. Any claim shall be deemed waived by buyer unless submitted to Connor in writing within 30 days from the date buyer discovered, or should have discovered, any claimed breach.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Vapor Barrier - 6-mil (0.2mm) polyethylene.
- B. Resilient Pads
  - 1. Connor Duracushion pads, 3/8" (10mm) X 2-1/4" (57mm) X 3" (76mm).
- C. Subfloor - 2 layers of 15/32" (12mm) APA rated plywood (or Flooring Manufacturers approved equivalent) sheathing, Exposure 1.
- D. Flooring - (Connor Laytite Maple)
  - 1. 25/32" (20mm) X 2-1/4" (57mm), Second & Better Grade, Northern Hard Maple Flooring, TGEM, MFMA Grade marked and stamped as manufactured by Connor Sports, Amasa, MI.
- E. Fasteners
  - 1. Flooring Fasteners - 2" (51mm) barbed cleats or coated staples.
  - 2. Subfloor Fasteners - 1" (25mm) staples or equivalent.
- F. Finish Materials – water based, low VOC, 2 component polyurethane seal and finish Berger-Seidle AquaChoice Sport or prior approved equal.
- F. Game Lines - Game line paint shall be compatible with finish.
- G. Logos – provide logo and graphics to match existing floor.
- H. Wall Base - 3" (76mm) X 4" (102mm), heavy duty, molded, vented cove base with pre-molded outside corners.

## PART 3 - EXECUTION

### 3.1 EXECUTION

- A. Inspect concrete slab for proper tolerance and dryness. Report any discrepancies to general contractor and architect in writing.
- B. Concrete slab shall be broom cleaned by general contractor.
- C. Installer (Flooring Contractor) shall document all working conditions provided in General specifications prior to commencement of installation.

### 3.2 INSTALLATION

- A. Subfloor
  - 1. Cover concrete with poly sealing and lapping joints a minimum of 6" (152mm).
  - 2. Subfloor
    - a. Install lower layer of subfloor perpendicular to finish maple flooring, spacing all edges 1/4" (6mm) and stagger joints 4' (1219mm). Provide 1-1/2" (38mm) expansion voids at perimeter and at all vertical obstructions. The underside of first layer shall have resilient pads attached 12" (305mm) on center (32 per sheet) and 6" (152mm) from edges on all sides. Install solid blocking at doorways, under bleachers in the stacked position, and below portable goals.
    - b. The second layer of subfloor shall be laid at a 45-degree angle over the first layer, spacing all edges 1/4" (6mm) and stagger joints 4' (1219mm). Provide 1-1/2" (38mm) expansion voids at perimeter and at all vertical obstructions. Attach second layer of subfloor with fasteners 12" (305mm) on center.
- B. Maple Flooring
  - 1. Install maple flooring by power nailing or stapling approximately 12" (305mm) on center with end joints properly driven up.
  - 2. If required, size joints between flooring strips to allow for intermediate expansion in accordance with local humidity conditions.
  - 3. Provided 1-1/2" (38mm) expansion voids at perimeter and at all vertical obstructions.

### 3.3 FINISHING

#### A. Maple Flooring

1. Machine sand with coarse, medium, and fine paper to a smooth, even and uniform surface.
2. Remove sanding dust from entire surface by tack or vacuum.
3. Inspect entire area of floor to insure surface is acceptable for finishing, clean and completely free from sanding dust.
4. Apply two (2) coats of approved seal and two (2) coats of approved finish per manufacturer's instructions.
5. Buff and clean floor between coats.
6. Games Lines: Apply game lines as indicated on drawings, between seal and first coat of finish.

### 3.4 BASE INSTALLATION

- #### A. Install vent cove base to walls with base cement or screws. Use pre-molded outside corners and mitered inside corners.

### 3.5 CLEANING

- #### A. Remove excess and waste materials from the area of work.

END OF SECTION 09 64 20

## SECTION 09 64 25 – WOOD GYMNASIUM FLOORING – Boys Gym

### PART 1 - GENERAL

#### 1.1 DESCRIPTION

A. Related work specified under other sections.

##### 1. CONCRETE SUBFLOORS

- a. Slab depression is:  
3-1/8” (79mm) for 25/32” (20mm) flooring and 3/8” (10mm) pad
- b. The slab shall be finished smooth to a tolerance of 1/8” in any 10’ (3mm in any 3 meter) radius by the general contractor. High spots shall be ground level, and low spots filled in with approved leveling compound by the general contractor to the full approval of the installer (Flooring Contractor).

#### 1.2 REFERENCES

A. MFMA - Maple Flooring Manufacturers Association

#### 1.3 QUALITY ASSURANCE

A. Manufacturer

1. Manufacturer of resilient flooring shall be a firm specializing in manufacturing products specified in this section.
2. Manufacturer of flooring and subfloor components must be ISO 14001:2015 Certified.
3. Basis of design shall be “Duracushion III” sports floor system as provided by Connor Sports, [www.connorfloor.com](http://www.connorfloor.com), (800-833-7144).
4. Materials other than those listed must be approved 10 days prior by written addendum. Materials from non-approved manufacturers will not be accepted.

B. Installer (Flooring Contractor)

1. The complete installation of the flooring system, as described in the scope of these specifications, shall be carried out by an experienced installer (Flooring Contractor), and the work shall be performed in accordance with most recent installation instructions of the manufacturer.
2. Installer (Flooring Contractor) shall be liable for all matters related to installation for a period of one year after the floor has been substantially installed and completed.

C. Performance Testing

1. Floor system shall have been independently evaluated according to established performance standards for the athletic flooring industry.
2. Compliance of athletic floor standard(s) for specified system as provided by Connor Sports at [www.connorsports.com](http://www.connorsports.com).

#### 1.4 SUBMITTALS

A. Specification - Submit Connor Duracushion III specification sheets.

B. Sample - Submit one sample of specified system, if requested by architect.

C. Maintenance Literature - Upon completion of floor installation, send to owner, attendants or individuals in charge and responsible for the upkeep of the building a CARE CARD. This card spells out care and maintenance instructions including temperature and humidity ranges for areas where flooring is installed.

### 1.5 WORKING CONDITIONS

- A. The wood flooring specified herein shall not be installed until all masonry, painting, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the wood floor areas. The building shall be enclosed and weathertight.
- B. The concrete subfloor shall be determined dry by industry standard testing procedures, free of foreign materials and turned over to the installer (Flooring Contractor) broom clean. Moderate room temperature of 65 degrees (18 degrees Celsius) or more shall be maintained a week preceding and throughout the duration of the work. Humidity conditions within the building shall approximate the humidity conditions that will prevail when the building is occupied.
- C. Permanent heat, light and ventilation shall be installed and operating during and after installation, maintaining a range of temperature and humidity compatible with the expected low and high moisture content of the flooring. The wood moisture content range is determined by the flooring contractor based on the facility's mechanical controls and/or geographical location.
- D. Flooring must be stored in a dry, well-ventilated area, not in contact with masonry, to acclimate to building conditions and shall be installed at moisture content compatible with the normally expected environmental range of temperature and relative humidity achieved while the facility is occupied.
- E. General Contractor shall lock floor area after floor is finished to allow proper cure time. If general contractor or owner requires use of gym after proper cure time, he shall protect the floor by covering with non-marring Kraft paper or red rosin paper with taped joints until acceptance by owner of complete gymnasium floor.
- F. Working conditions as described above shall be followed. Variations and substitutions shall be submitted for approval to the architect who shall advise Connor of the same.

### 1.6 HUMIDITY CONTROL

- A. Since all wood flooring will expand and contract as relative humidity varies, it is important to minimize extremes between low and high. Hardwood flooring is manufactured at moisture content most compatible with a 35%-50% relative humidity range. Geographical regions and available mechanicals determine the typical range of temperature and humidity for each facility. Maintaining a 15% fluctuation between highest and lowest average indoor relative humidity provides limited shrinkage and growth. Facility managers should make use of available HVAC systems to prevent excessive tightening and shrinkage of flooring.

### 1.7 WARRANTY

- A. Connor warrants that the materials it has supplied will be free from manufacturing defects for a period of one year. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied in operation of law or otherwise, including, but not limited to, any implied warranties of merchantability or fitness. This warranty is expressly limited to the flooring materials (goods) supplied by Connor. This warranty does not cover floor damage caused (wholly or in part) by fire, winds, floods, moisture, other unfavorable atmospheric conditions or chemical action, nor does it apply to damage caused by ordinary wear, misuse, abuse, negligent or intentional misconduct, aging, faulty building construction, concrete slab separation, faulty or unsuitable subsurface or site preparation, settlement of the building walls or faulty or unprofessional installation of Connor flooring systems.
- B. Connor shall not be liable for incidental or consequential losses, damages or expenses directly or indirectly arising from the sale, handling or use of the materials (goods) or from any other cause relating thereto, and their liability hereunder in any case is expressly limited to the replacement of materials (goods) not complying with this agreement, or at their elections, to the repayment of, or crediting buyer with, an amount equal to the purchase price of such materials (goods), whether such claims are for breach of warranty or negligence. Any claim shall be deemed waived by buyer unless submitted to



Connor in writing within 30 days from the date buyer discovered, or should have discovered, any claimed breach.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Vapor Barrier - 6-mil (0.2mm) polyethylene.
- B. Resilient Pads
  - 1. Connor Duracushion pads, 3/8" (10mm) X 2-1/4" (57mm) X 3" (76mm).
- C. Sleepers – Nominal 2" X 3" X 4" (38mm x 64mm x 1219mm) Spruce, Fir, Pine or Hemlock with 5 pads attached 12" (305mm) on center.
- D. Subfloor - 15/32" (12mm) APA rated plywood sheathing, Exposure 1.
- E. Flooring - (Connor Laytite Maple)
  - 1. 25/32" (20mm) X 2-1/4" (57mm), Second & Better Grade, Northern Hard Maple Flooring, TGEM, MFMA Grade marked and stamped as manufactured by Connor Sports, Amasa, MI.
- F. Fasteners
  - 1. Flooring - 2" (51mm) barbed cleats or coated staples.
  - 2. Subfloor - 1-1/2" (38mm) coated staples.
- G. Finish Materials – water based, low VOC, 2 component polyurethane seal and finish Berger-Seidle AquaChoice Sport or equal.
- H. Game Lines - Game line paint shall be compatible with finish.
- I. Logos – provide logo and graphics to match existing floor.
- J. Wall Base - 3" (76mm) X 4" (102mm), heavy duty, molded, vented cove base with pre-molded outside corners.

## PART 3 - EXECUTION

### 3.1 EXECUTION

- A. Inspect concrete slab for proper tolerance and dryness. Report any discrepancies to general contractor and architect in writing.
- B. Concrete slab shall be broom cleaned by general contractor.
- C. Installer (Flooring Contractor) shall document all working conditions provided in General Specifications prior to commencement of installation.

### 3.2 INSTALLATION

- A. Subfloor
  - 1. Cover concrete with poly, sealing and lapping joints a minimum of 6" (152mm).
  - 2. Install sleepers at right angles to finish flooring 12" (305mm) on center. Space ends 1/4" (6mm) and offset joints 24" (610mm) in adjacent rows. Provide 2" (51mm) expansion voids at perimeter and at all vertical obstructions. Inspect sleepers to be sure that all pads bear on the concrete subfloor. Install solid blocking at doorways, under bleachers in the stacked position, and below portable goals.
  - 3. Attach plywood subfloor with 8' (2438mm) edges parallel to and resting on sleepers. Set plywood in staggered brick pattern and offset plywood end joints by 1' (305mm) from sleeper end joints, 1/4" (6mm) spacing at all edges. Fasten plywood to sleepers using 1-1/2" (38mm) staples fastened 12" (305mm) on center.

B. Maple Flooring

1. Install maple flooring by power nailing or stapling approximately 12” (305mm) on center with end joints properly driven up.
2. If required, size joints between flooring strips to allow for intermediate expansion in accordance with local humidity conditions.
3. Provided 2” (51mm) expansion voids at perimeter and at all vertical obstructions.

3.3 FINISHING

A. Maple Flooring

1. Machine sand with coarse, medium, and fine paper to a smooth, even and uniform surface.
2. Remove sanding dust from entire surface by tack or vacuum.
3. Inspect entire area of floor to insure surface is acceptable for finishing, clean and completely free from sanding dust.
4. Apply two (2) coats of approved seal and two (2) coats of approved finish per manufacturer’s instructions.
5. Buff and clean floor between coats.
6. Games Lines: Apply game lines as indicated on drawings, between seal and first coat of finish.

3.4 BASE INSTALLATION

- A. Install vent cove base to walls with base cement or screws. Use pre-molded outside corners and mitered inside corners.

3.5 CLEANING

- A. Remove excess and waste materials from the area of work.

END OF SECTION 09 64 25