

**ADDENDUM No. 01**

**TIPPECANOE SCHOOL CORPORATION  
WEA RIDGE MIDDLE SCHOOL  
INTERIOR IMPROVEMENTS PACKAGE**

**4410 SOUTH CR 150 EAST  
LAFAYETTE, INDIANA**

Project No.: **11014.02**

October 24, 2011

**TO ALL BIDDERS OF RECORD:**

The following addendum indicates revisions, additions, and deletions from the original information, project manual, and construction drawings, dated October 6, 2011. This addendum forms a part of these documents.

Acknowledged receipt of this addendum by inserting its number on your bid proposal form. Failure to do so may subject the bidder to disqualification.

**GENERAL INFORMATION**

<b>ITEM</b>	<b>DESCRIPTION</b>
G-1	<u>COMMON CONSTRUCTION WAGE SCALE</u> : See attached Common Construction Wage Scale for project.

**PROJECT MANUAL**

<b>ITEM</b>	<b>DESCRIPTION</b>
PR-1	<u>Section 064023 "Interior Architectural Woodwork"</u> : Add attached section.
PR-2	<u>Section 081113 "Hollow Metal Doors &amp; Frames"</u> : Add attached section
PR-3	<u>Section 084113 "Aluminum-Framed Entrances &amp; Storefronts"</u> : Delete said section.

## DRAWING NOTES & REVISIONS

ITEM	DESCRIPTION
D-1	<u>A101 Plans</u> : Replace current A101 with attached, revised A101 dated October 24, 2011. The aluminum framed doorway system is being replaced with a new hollow metal frame, sliding glass window.
D-2	<u>M101 Mechanical Plans</u> : Replace current M100 with attached, revised M100 dated October 24, 2011.
D-3	<u>E101 Electrical Plans</u> : Replace current E100 with attached, revised E100 dated October 24, 2011.

END OF ADDENDUM NO. 1

## COMMON CONSTRUCTION WAGE SCALE

**Date:** October 13, 2011

**City:** LAFAYETTE

**County:** TIPPECANOE

**Project Description and Scope:**

TIPPECANOE COUNTY SCHOOL CORPORATION  
FOR ALL PROJECTS FROM OCTOBER 13, 2011  
THRU JANUARY 13, 2011

**We the undersigned common construction wage committee, appointed pursuant to Indiana Code 5-16-7 *et seq.*, do hereby fix and determine the following common construction wage scale to apply on the above referenced project.**

### **COMMERCIAL BUILDING**

<b>Classification</b>	<b>Class</b>	<b>Hourly Rate</b>	<b>Fringes</b>	<b>Total:</b>
<b>Asbestos Workers/ Mechanical Insulators</b>				
	Skilled	\$32.34	\$14.69	\$47.03
	Semiskilled	\$18.77	\$8.37	\$27.14
	Unskilled	\$13.71	\$8.10	\$21.81
<b>Asbestos Workers/ Asbestos Abatement</b>				
	Skilled	\$22.03	\$10.80	\$32.83
	Semiskilled	N/A	N/A	N/A
	Unskilled	N/A	N/A	N/A
<b>Boilermakers</b>				
	Skilled	\$33.43	\$22.48	\$55.91
	Semiskilled	\$26.74	\$22.48	\$49.22
	Unskilled	\$20.06	\$22.48	\$42.54
<b>Bricklayers</b>				
	Skilled	\$27.00	\$13.32	\$40.32
	Semiskilled	\$20.25	\$13.32	\$33.57
	Unskilled	\$13.50	\$13.32	\$26.82
<b>Carpenters</b>				
	Skilled	\$25.78	\$15.59	\$41.37
	Semiskilled	\$23.20	\$15.59	\$38.79
	Unskilled	\$15.47	\$15.59	\$31.06
<b>Carpet Layers</b>				
	Skilled	\$25.78	\$15.59	\$41.37
	Semiskilled	\$23.20	\$15.59	\$38.79
	Unskilled	\$15.47	\$15.59	\$31.06

**Cement Masons**

Skilled	\$24.95	\$12.98	\$37.93
Semiskilled	\$19.96	\$12.98	\$32.94
Unskilled	\$14.97	\$12.98	\$27.95

**Drywall Finishers**

Skilled	\$23.05	\$10.97	\$34.02
Semiskilled	\$16.14	\$10.97	\$27.11
Unskilled	\$11.53	\$10.97	\$22.50

**Drywall Installers**

Skilled	\$25.78	\$15.59	\$41.37
Semiskilled	\$23.20	\$15.59	\$38.79
Unskilled	\$15.47	\$15.59	\$31.06

**Electricians**

Skilled	\$30.83	\$13.81	\$44.64
Semiskilled	\$18.50	\$13.44	\$31.94
Unskilled	\$12.33	\$6.72	\$19.05

**Elevator Constructors**

Skilled	\$40.530	\$25.230	\$65.76
Semiskilled	\$28.37	\$23.69	\$52.06
Unskilled	\$22.29	\$23.32	\$45.61

**Glaziers**

Skilled	\$25.86	\$11.45	\$37.31
Semiskilled	\$18.11	\$9.94	\$28.05
Unskilled	\$12.93	\$8.93	\$21.86

**Iron Workers**

Skilled	\$27.90	\$18.76	\$46.66
Semiskilled	\$22.32	\$18.76	\$41.08
Unskilled	\$16.74	\$18.76	\$35.50

**Laborers**

Skilled	\$22.28	\$11.20	\$33.48
Semiskilled	\$22.03	\$11.20	\$33.23
Unskilled	\$21.28	\$11.20	\$32.48

**Mechanical Insulators**

Skilled	\$32.34	\$14.69	\$47.03
Semiskilled	\$18.77	\$8.37	\$27.14
Unskilled	\$13.71	\$8.10	\$21.81

**Millwrights**

Skilled	\$26.01	\$15.81	\$41.82
Semiskilled	\$23.41	\$15.81	\$39.22
Unskilled	\$15.61	\$15.81	\$31.42

**Operating Engineers**

Skilled	\$29.21	\$13.90	\$43.11
Semiskilled	\$26.29	\$13.90	\$40.19
Unskilled	\$21.91	\$13.90	\$35.81

**Painters/Brush/Roll**

Skilled	\$23.00	\$10.97	\$33.97
Semiskilled	\$16.10	\$10.97	\$27.07
Unskilled	\$11.50	\$10.97	\$22.47

**Painters/Spray/Sandblast**

Skilled	\$24.00	\$10.97	\$34.97
Semiskilled	\$16.80	\$10.97	\$27.77
Unskilled	\$12.00	\$10.97	\$22.97

**Paperhanger**

Skilled	\$23.00	\$10.97	\$33.97
Semiskilled	\$16.10	\$10.97	\$27.07
Unskilled	\$11.50	\$10.97	\$22.47

**Pipefitters & Steamfitters**

Skilled	\$34.67	\$13.60	\$48.27
Semiskilled	\$20.80	\$13.60	\$34.40
Unskilled	\$17.34	\$6.05	\$23.39

**Plasters**

Skilled	\$25.61	\$12.98	\$38.59
Semiskilled	\$20.49	\$12.98	\$33.47
Unskilled	\$15.37	\$12.98	\$28.35

**Plumbers**

Skilled	\$34.67	\$13.60	\$48.27
Semiskilled	\$20.80	\$13.60	\$34.40
Unskilled	\$17.34	\$6.05	\$23.39

**Pointer/Caulker/Cleaners**

Skilled	\$27.00	\$13.32	\$40.32
Semiskilled	\$20.25	\$13.32	\$33.57
Unskilled	\$13.50	\$13.32	\$26.82

**Roofers**

Skilled	\$24.33	\$10.01	\$34.34
Semiskilled	\$17.03	\$7.41	\$24.44
Unskilled	\$12.17	\$2.60	\$14.77

**Sheet Metal Workers**

Skilled	\$31.01	\$18.84	\$49.85
Semiskilled	\$20.16	\$15.21	\$35.37
Unskilled	\$15.51	\$13.42	\$28.93

**Sound and Communication  
Workers**

Skilled	\$25.51	\$9.93	\$35.44
Semiskilled	\$15.31	\$9.62	\$24.93
Unskilled	\$12.76	\$5.63	\$18.39

**Sprinkler Fitters**

Skilled	\$33.69	\$16.00	\$49.69
Semiskilled	\$21.90	\$14.25	\$36.15
Unskilled	\$16.85	\$8.10	\$24.95

**Stone Masons**

Skilled	\$27.00	\$13.32	\$40.32
Semiskilled	\$20.25	\$13.32	\$33.57
Unskilled	\$13.50	\$13.32	\$26.82

**Teamsters**

Skilled	\$23.09	\$10.67	\$33.76
Semiskilled	N/A	N/A	N/A
Unskilled	N/A	N/A	N/A

**Technical Engineers**

Skilled	\$25.78	\$15.59	\$41.37
Semiskilled	N/A	N/A	N/A
Unskilled	N/A	N/A	N/A

**Tile & Marble Setters**

Skilled	\$28.90	\$9.56	\$38.46
Semiskilled	\$26.01	\$9.56	\$35.57
Unskilled	\$13.00	\$9.56	\$22.56

**Terrazzo Workers**

Skilled	\$29.50	\$9.66	\$39.16
Semiskilled	\$26.55	\$9.66	\$36.21
Unskilled	\$13.28	\$9.66	\$22.94

**Terrazzo Helpers/Finishers**

Skilled	\$21.62	\$5.84	\$27.46
Semiskilled	\$18.92	\$5.84	\$24.76
Unskilled	\$12.29	\$5.84	\$18.13

**Tile & Marble Helpers/Finishers**

Skilled	\$18.92	\$5.84	\$24.76
Semiskilled	\$16.22	\$5.84	\$22.06
Unskilled	\$12.29	\$5.84	\$18.13

[Add classifications as required by the project]

**Definitions:**

**Skilled:** An individual who performs work in a classification listed on the scale of wages. It shall be presumed that an employee is a skilled worker in that classification, and entitled to receive compensation at the skilled rate, unless the worker satisfies all of the criteria for being categorized as a semi-skilled or unskilled worker.

**Semi-skilled:** An individual registered in a bona fide apprenticeship program registered with the United States Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training. Apprentices are paid pursuant to their individually warranted percentage for the classification of work that they perform as set forth in the apprentice program standards.

**Unskilled:** An individual with less than twelve months of cumulative experience in the construction trades and who is not registered in a bona fide apprenticeship program.

*The above definitions shall not apply to workers in the classification of Laborer.*

**Apprenticeship Programs:**

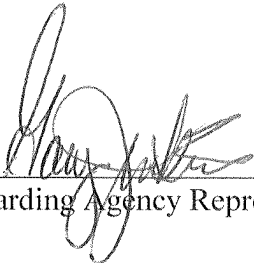
The Wage Committee determines that the common practice in the county is for contractors to participate in bona fide apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training and that the rate of pay for the classifications of labor that participate in such programs is based in part on a percentage of the journeyman's rate (skilled rate herein) depending on the individual's progress in the program.

Workers engaged in such an apprenticeship program will be permitted to work at less than the predetermined rate set out above for the work they perform. Such apprentices must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate which is the skilled hourly rate in this wage scale.

Any worker who is not registered or otherwise employed in a bona fide apprenticeship program registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training and has twelve or more months of cumulative experience in the construction trades shall be paid at the skilled wage rate on this wage determination for the classification of work actually performed by the worker regardless of how the employer classifies such a worker.

Disputes regarding the appropriate classification of workers and the amounts said workers should be paid may be submitted to the Indiana Department of Labor for investigation.

  
\_\_\_\_\_  
Indiana State AFL-CIO Representative

  
\_\_\_\_\_  
Awarding Agency Representative

\_\_\_\_\_  
ABC

  
\_\_\_\_\_  
Taxpayer Named by Appointing Agency

  
\_\_\_\_\_  
Taxpayer Named by County Legislative  
Body

Date: OCTOBER 13, 2011

## COMMON CONSTRUCTION WAGE SCALE

**Date:** October 13, 2011

**City:** Lafayette

**County:** Tippecanoe

**Project Description and Scope:** TIPPECANOE SCHOOL CORPORATION  
FOR ALL PROJECTS FROM OCTOBER 13, 2011  
THRU JANUARY 13, 2011

**We the undersigned common construction wage committee, appointed pursuant to Indiana Code 5-16-7 et seq. , do hereby fix and determine the following common construction wage scale to apply on the above referenced project.**

---

### HEAVY/HIGHWAY

<b>Classification</b>	<b>Class</b>	<b>Hourly Rate</b>	<b>Fringes</b>	<b>Total:</b>
<b>Asbestos Workers/ Mechanical Insulators</b>	Skilled	\$32.34	\$14.69	\$47.03
	Semiskilled	\$18.77	\$8.37	\$27.14
	Unskilled	\$13.71	\$8.10	\$21.81
<b>Asbestos Workers/ Asbestos Abatement</b>	Skilled	N/A	N/A	\$0.00
	Semiskilled	N/A	N/A	N/A
	Unskilled	N/A	N/A	N/A
<b>Boilermakers</b>	Skilled	\$33.43	\$22.48	\$55.91
	Semiskilled	\$26.74	\$22.48	\$49.22
	Unskilled	\$20.06	\$22.48	\$42.54
<b>Bricklayers</b>	Skilled	\$27.00	\$13.32	\$40.32
	Semiskilled	\$20.25	\$13.32	\$33.57
	Unskilled	\$13.50	\$13.32	\$26.82
<b>Carpenters</b>	Skilled	\$25.59	\$14.10	\$39.69
	Semiskilled	\$23.03	\$14.10	\$37.13
	Unskilled	\$15.35	\$14.10	\$29.45
<b>Cement Masons</b>	Skilled	\$24.95	\$12.98	\$37.93
	Semiskilled	\$19.96	\$12.98	\$32.94
	Unskilled	\$14.97	\$12.98	\$27.95

**Drywall Finishers**

Skilled	\$23.05	\$10.97	\$34.02
Semiskilled	\$16.14	\$10.97	\$27.11
Unskilled	\$11.53	\$10.97	\$22.50

**Drywall Installers**

Skilled	\$25.59	\$14.10	\$39.69
Semiskilled	\$23.03	\$14.10	\$37.13
Unskilled	\$15.35	\$14.10	\$29.45

**Electricians**

Skilled	\$30.83	\$13.81	\$44.64
Semiskilled	\$18.50	\$13.44	\$31.94
Unskilled	\$12.33	\$6.72	\$19.05

**Elevator Constructors**

Skilled	\$40.530	\$25.230	\$65.76
Semiskilled	\$28.37	\$23.69	\$52.06
Unskilled	\$22.29	\$23.32	\$45.61

**Glaziers**

Skilled	\$25.86	\$11.45	\$37.31
Semiskilled	\$18.11	\$9.94	\$28.05
Unskilled	\$12.93	\$8.93	\$21.86

**Iron Workers**

Skilled	\$27.90	\$18.76	\$46.66
Semiskilled	\$22.32	\$18.76	\$41.08
Unskilled	\$16.74	\$18.76	\$35.50

**Laborers**

Skilled	\$23.62	\$11.21	\$34.83
Semiskilled	\$23.12	\$11.21	\$34.33
Unskilled	\$22.62	\$11.21	\$33.83

**Mechanical Insulators**

Skilled	\$32.34	\$14.69	\$47.03
Semiskilled	\$18.77	\$8.37	\$27.14
Unskilled	\$13.71	\$8.10	\$21.81

**Millwrights**

Skilled	\$26.01	\$15.81	\$41.82
Semiskilled	\$23.41	\$15.81	\$39.22
Unskilled	\$15.61	\$15.81	\$31.42

**Operating Engineers**

Skilled	\$29.70	\$13.91	\$43.61
Semiskilled	\$26.73	\$13.91	\$40.64
Unskilled	\$22.28	\$13.91	\$36.19

**Painters/Brush/Roll**

Skilled	\$23.00	\$10.97	\$33.97
Semiskilled	\$16.10	\$10.97	\$27.07
Unskilled	\$11.50	\$10.97	\$22.47

**Painters/Spray/Sandblast**

Skilled	\$24.00	\$10.97	\$34.97
Semiskilled	\$16.80	\$10.97	\$27.77
Unskilled	\$12.00	\$10.97	\$22.97

**Pipefitters & Steamfitters**

Skilled	\$34.67	\$13.60	\$48.27
Semiskilled	\$20.80	\$13.60	\$34.40
Unskilled	\$17.34	\$6.05	\$23.39

**Plasters**

Skilled	\$25.61	\$12.98	\$38.59
Semiskilled	\$20.49	\$12.98	\$33.47
Unskilled	\$15.37	\$12.98	\$28.35

**Plumbers**

Skilled	\$34.67	\$13.60	\$48.27
Semiskilled	\$20.80	\$13.60	\$34.40
Unskilled	\$17.34	\$6.05	\$23.39

**Pointer/Caulker/Cleaners**

Skilled	\$27.00	\$13.32	\$40.32
Semiskilled	\$20.25	\$13.32	\$33.57
Unskilled	\$13.50	\$13.32	\$26.82

**Roofers**

Skilled	\$24.33	\$10.01	\$34.34
Semiskilled	\$17.03	\$7.41	\$24.44
Unskilled	\$12.17	\$2.60	\$14.77

**Sheet Metal Workers**

Skilled	\$31.01	\$18.84	\$49.85
Semiskilled	\$20.16	\$15.21	\$35.37
Unskilled	\$15.51	\$13.42	\$28.93

**Sound and Communication  
Workers**

Skilled	\$25.51	\$9.93	\$35.44
Semiskilled	\$15.31	\$9.62	\$24.93
Unskilled	\$12.76	\$5.63	\$18.39

**Sprinkler Fitters**

Skilled	\$33.69	\$16.00	\$49.69
Semiskilled	\$21.90	\$14.25	\$36.15
Unskilled	\$16.85	\$8.10	\$24.95

**Stone Masons**

Skilled	\$27.00	\$13.32	\$40.32
Semiskilled	\$20.25	\$13.32	\$33.57
Unskilled	\$13.50	\$13.32	\$26.82

**Teamsters**

Skilled	\$26.11	\$10.67	\$36.78
Semiskilled	N/A	N/A	N/A
Unskilled	N/A	N/A	N/A

**Technical Engineers**

Skilled	\$25.59	\$14.10	\$39.69
Semiskilled	N/A	N/A	N/A
Unskilled	N/A	N/A	N/A

**Tile & Marble Setters**

Skilled	\$28.90	\$9.56	\$38.46
Semiskilled	\$26.01	\$9.56	\$35.57
Unskilled	\$13.00	\$9.56	\$22.56

**Terrazzo Workers**

Skilled	\$29.50	\$9.66	\$39.16
Semiskilled	\$26.55	\$9.66	\$36.21
Unskilled	\$13.28	\$9.66	\$22.94

**Terrazzo Helpers/Finishers**

Skilled	\$18.92	\$5.84	\$24.76
Semiskilled	\$16.22	\$5.84	\$22.06
Unskilled	\$12.29	\$5.84	\$18.13

**Tile & Marble Helper/Finishers**

Skilled	\$19.80	\$5.86	\$25.66
Semiskilled	\$17.95	\$5.86	\$23.81
Unskilled	\$12.29	\$5.86	\$18.15

[Add classifications as required by the project]

**Definitions:**

**Skilled**: An individual who performs work in a classification listed on the scale of wages. It shall be presumed that an employee is a skilled worker in that classification, and entitled to receive compensation at the skilled rate, unless the worker satisfies all of the criteria for being categorized as a semi-skilled or unskilled worker.

**Semi-skilled**: An individual registered in a bona fide apprenticeship program registered with the United States Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training. Apprentices are paid pursuant to their individually warranted percentage for the classification of work that they perform as set forth in the apprentice program standards.

**Unskilled**: An individual with less than twelve months of cumulative experience in the construction trades and who is not registered in a bona fide apprenticeship program.

*The above definitions shall not apply to workers in the classification of Laborer.*

### **Apprenticeship Programs:**

The Wage Committee determines that the common practice in the county is for contractors to participate in bona fide apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training and that the rate of pay for the classifications of labor that participate in such programs is based in part on a percentage of the journeyman's rate (skilled rate herein) depending on the individual's progress in the program.

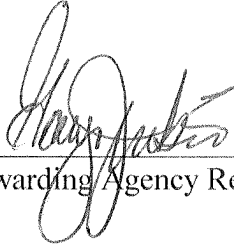
Workers engaged in such an apprenticeship program will be permitted to work at less than the predetermined rate set out above for the work they perform. Such apprentices must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate which is the skilled hourly rate in this wage scale.

Any worker who is not registered or otherwise employed in a bona fide apprenticeship program registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training and has twelve or more months of cumulative experience in the construction trades shall be paid at the skilled wage rate on this wage determination for the classification of work actually performed by the worker regardless of how the employer classifies such a worker.

Disputes regarding the appropriate classification of workers and the amounts said workers should be paid may be submitted to the Indiana Department of Labor for investigation.

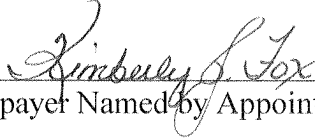


Indiana State AFL-CIO Representative



Awarding Agency Representative

Governor's Representative



Taxpayer Named by Appointing Agency



Taxpayer Named by County Legislative  
Body

10/13/2011

Date

Format updated 6/06/2006

## SECTION 064023 - INTERIOR ARCHITECTURAL WOODWORK

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes interior woodwork including for the following applications:
  - 1. Standing and running trim.
  - 2. Plastic-laminate cabinets.
  - 3. Plastic-laminate countertops.
  - 4. Solid-surfacing-material countertops.
  - 5. Flush wood paneling and wainscots (Tambour Wood Paneling).
- B. Interior architectural woodwork includes wood furring, blocking, shims, and hanging strips, unless concealed within other construction before woodwork installation.

#### 1.2 SUBMITTALS

- A. Product Data: For the following:
  - 1. Cabinet hardware and accessories.
  - 2. Finishing materials and processes.
- B. Shop Drawings: Include location of each item, plans and elevations, large-scale details, attachment devices, and other components.
- C. Samples:
  - 1. Lumber and panel products for transparent finish, for each species and cut, finished on one side and one edge.
  - 2. Lumber and panel products with shop-applied opaque finish, for each finish system and color, with exposed surface finished.
  - 3. Plastic-laminate-clad panel products, for each type, color, pattern, and surface finish.
  - 4. Solid-surfacing materials.
  - 5. Tambour wood paneling, for each profile, color, and surface finish.

#### 1.3 QUALITY ASSURANCE

- A. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural Woodwork Quality Standards" for grades of interior architectural woodwork, construction, finishes, and other requirements.
  - 1. Provide AWI certification labels or compliance certificate indicating that woodwork complies with requirements of grades specified.

## 1.4 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels planned for building occupants during the remainder of the construction period.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Wood for Transparent Finish:
  - 1. Species and Cut: Red oak, plain sawn or sliced.
- B. Wood for Opaque Finish:
  - 1. Species: Any closed-grain hardwood.
- C. Wood Products:
  - 1. Hardboard: AHA A135.4.
  - 2. Medium-Density Fiberboard: ANSI A208.2, Grade MD-Exterior Glue.
  - 3. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.
  - 4. Softwood Plywood: DOC PS 1, Medium Density Overlay.
  - 5. Hardwood Plywood and Face Veneers: HPVA HP-1.
- E. High-Pressure Decorative Laminate: NEMA LD 3.
  - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Nevamar
    - b. Formica Corporation.
    - c. Pionite
    - d. WilsonArt
- F. Solid-Surfacing Material: Homogeneous solid sheets of filled plastic resin complying with ANSI Z124.3, for Type 5 or Type 6 material and performance requirements, without a pre-coated finish.
  - 1. Products: Subject to compliance with requirements, provide one of the following:
    - a. DuPont Polymers; Corian.
    - b. WilsonArt

## 2.2 CABINET HARDWARE AND ACCESSORIES

- A. General: Provide cabinet hardware and accessory materials for a complete installation of architectural woodwork, except for items specified in Division 8 Section "Door Hardware."
- B. Hardware Standard: Comply with BHMA A156.9 for items indicated by referencing BHMA numbers or items referenced to this standard.
- C. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, self-closing.
- D. Wire Pulls: As selected by owner.
- E. Catches: Magnetic, BHMA A156.9, B03141.
- F. Adjustable Shelf Standards and Supports: BHMA A156.9, B04071; with shelf rests, B04081.
- G. Drawer Slides: Side-mounted, full-extension, zinc-plated steel drawer slides with steel ball bearings, BHMA A156.9, B05091, and rated for the following loads:
  - 1. Box Drawer Slides: 75 lbf (330 N)] [100 lbf (440 N).
  - 2. File Drawer Slides: 150 lbf (670 N) 200 lbf (890 N).
  - 3. Pencil Drawer Slides: 45 lbf (200 N).
- H. Door Locks: BHMA A156.11, E07121.
- I. Drawer Locks: BHMA A156.11, E07041.
- J. Hanging File Frame Kit: Similar to, or greater than Hafele
  - 1. File Frame Kit
  - 2. Legal Width Frame Kit
- K. Exposed Hardware Finishes: Complying with BHMA A156.18 for BHMA finish number indicated.
  - 1. Bright Chromium Plated: BHMA 625 for brass or bronze base; BHMA 651 for steel base.

## 2.3 INSTALLATION MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln-dried to less than 15 percent moisture content.

## 2.4 FABRICATION

- A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scribing, trimming, and fitting.
  - 1. Interior Woodwork Grade: Custom complying with the referenced quality standard.

2. Shop cut openings to maximum extent possible. Sand edges of cutouts to remove splinters and burrs.
3. Seal edges of openings in countertops with a coat of varnish.
4. For trim items wider than available lumber, use veneered construction. Do not glue for width.
5. Backout or groove backs of flat trim members and kerf backs of other wide, flat members, except for members with ends exposed in finished work.
6. Assemble casings in plant except where limitations of access to place of installation require field assembly.

B. Plastic-Laminate Cabinets:

1. AWI Type of Cabinet Construction: As indicated.
2. Laminate Cladding for Exposed Surfaces: High-pressure decorative of grade indicated.
  - a. Horizontal Surfaces Other Than Tops: HGL.
  - b. Postformed Surfaces: HGP.
  - c. Vertical Surfaces: HGS.
  - d. Edges: HGS, minimum thickness, matching laminate in color, pattern, and finish
3. Colors, Patterns, and Finishes: As selected from manufacturer's full range.
4. Provide dust panels of 1/4-inch (6.4-mm) plywood or tempered hardboard above compartments and drawers, unless located directly under tops.

C. Plastic-Laminate Countertops:

1. High-Pressure Decorative Laminate Grade: HGP.
2. Colors, Patterns, and Finishes: As selected from manufacturer's full range.
3. Edge Treatment: As indicated.

D. Solid-Surfacing-Material Countertops:

1. Solid-Surfacing-Material Thickness: 3/4 inch (13 mm)
2. Colors, Patterns, and Finishes: As selected by the Architecture from manufacturer's full range.
3. Fabricate tops in one piece with shop-applied backsplashes and edges, unless otherwise indicated. Comply with solid-surfacing-material manufacturer's written recommendations for adhesives, sealers, fabrication, and finishing.

E. Tambour Wood Paneling:

1. Colors, Patterns, and Finishes: As selected by Architect from manufacturer's full range of profiles and colors.

## 2.5 SITE FINISHING

- A. Finish architectural woodwork at site, including final touchup, cleaning and polishing after installation.

- B. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to back of paneling.
- C. Transparent Finish: Comply with requirements indicated below for grade, finish system, staining, and sheen, with sheen measured on 60-degree gloss meter per ASTM D 523:
  - 1. Grade: Custom.
  - 2. AWI Finish System: TR-6, catalyzed polyurethane.
  - 3. Staining: Match sample.
  - 4. Wash Coat for Stained Finish: Apply a vinyl wash coat to woodwork made from closed-grain wood before staining and finishing.
  - 5. Open-Grain Woods: After staining (if any), apply paste wood filler to open-grain woods and wipe off excess. Tint filler to match stained wood.
  - 6. Sheen: Satin, 30-50 Semigloss, 55-75 gloss units.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Condition woodwork to average prevailing humidity conditions in installation areas and examine and complete work as required, including removal of packing and backpriming before installation.
- B. Quality Standard: Install woodwork to comply with AWI Section 1700 for the same grade specified in this Section for type of woodwork involved.
- C. Install woodwork level, plumb, true, and straight to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm). Shim as required with concealed shims.
- D. Scribe and cut woodwork to fit adjoining work, and refinish cut surfaces and repair damaged finish at cuts.
- E. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.
- F. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Fill gaps, if any, between top of base and wall with plastic wood filler, sand smooth, and finish same as wood base, if finished.
- G. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.
  - 1. Fasten wall cabinets through back, near top and bottom, at ends and not more than 16 inches (400 mm) o.c. with No. 10 wafer-head screws sized for 1-inch (25-mm) penetration into wood framing, blocking, or hanging strips.

- H. Countertops: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop. Calk space between backsplash and wall with sealant specified in Division 7 Section "Joint Sealants."
- I. Paneling: Anchor paneling to supporting substrate with concealed panel-hanger clips. Do not use face fastening, unless otherwise indicated.

END OF SECTION 064023

## SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes hollow-metal work.

#### 1.2 DEFINITIONS

- A. **Minimum Thickness:** Minimum thickness of base metal without coatings according to NAAMM-HMMA 803 or SDI A250.8.

#### 1.3 ACTION SUBMITTALS

- A. **Product Data:** For each type of product.
- B. **Shop Drawings:** Include elevations, door edge details, frame profiles, metal thicknesses, preparations for hardware, and other details.
- C. **Schedule:** Prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. **Manufacturers:** Subject to compliance with requirements, **provide products by one of the following:**
  1. Ceco Door Products; an Assa Abloy Group company.
  2. Curries Company; an Assa Abloy Group company.
  3. Pioneer Industries, Inc.
  4. Steelcraft; an Ingersoll-Rand company.
  5. Steward Steel; Door Division.

#### 2.2 FRAME ANCHORS

- A. **Jamb Anchors:**
  1. **Masonry Type:** Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, not less than **0.042 inch (1.0 mm)** thick, with corrugated or perforated straps not less than **2 inches (51 mm)** wide by **10 inches (254 mm)** long; or wire anchors not less than **0.177 inch (4.5 mm)** thick.

2. Postinstalled Expansion Type for In-Place Concrete or Masonry: Minimum **3/8-inch (9.5-mm)** diameter bolts with expansion shields or inserts. Provide pipe spacer from frame to wall, with throat reinforcement plate, welded to frame at each anchor location.

## 2.3 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
- C. Frame Anchors: ASTM A 879/A 879M, Commercial Steel (CS), **04Z (12G)** coating designation; mill phosphatized.
  1. For anchors built into exterior walls, steel sheet complying with ASTM A 1008/A 1008M or ASTM A 1011/A 1011M, hot-dip galvanized according to ASTM A 153/A 153M, Class B.
- D. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153/A 153M.
- E. Grout: ASTM C 476, except with a maximum slump of **4 inches (102 mm)**, as measured according to ASTM C 143/C 143M.
- F. Glazing: Section 088000 "Glazing."

## 2.4 FABRICATION

- A. Fabricate hollow-metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for metal thickness. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.
- B. Hollow-Metal Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
  1. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
  2. Grout Guards: Weld guards to frame at back of hardware mortises in frames to be grouted.
  3. Jamb Anchors: Provide number and spacing of anchors as follows:
    - a. Masonry Type: Locate anchors not more than **16 inches (406 mm)** from top and bottom of frame. Space anchors not more than **32 inches (813 mm)** o.c., to match coursing, and as follows:
      - 1) Three anchors per jamb from **60 to 90 inches (1524 to 2286 mm)** high.
    - b. Compression Type: Not less than two anchors in each frame.

- c. Postinstalled Expansion Type: Locate anchors not more than **6 inches (152 mm)** from top and bottom of frame. Space anchors not more than **26 inches (660 mm)** o.c.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Hollow-Metal Frames: Install hollow-metal frames of size and profile indicated. Comply with SDI A250.11 or NAAMM-HMMA 840 as required by standards specified.
  - 1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.
    - a. Where frames are fabricated in sections because of shipping or handling limitations, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces.
    - b. Install frames with removable stops located on secure side of opening.
    - c. Remove temporary braces necessary for installation only after frames have been properly set and secured.
    - d. Check plumb, square, and twist of frames as walls are constructed. Shim as necessary to comply with installation tolerances.
  - 2. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with grout.
  - 3. Installation Tolerances: Adjust hollow-metal door frames for squareness, alignment, twist, and plumb to the following tolerances:
    - a. Squareness: Plus or minus **1/16 inch (1.6 mm)**, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
    - b. Alignment: Plus or minus **1/16 inch (1.6 mm)**, measured at jambs on a horizontal line parallel to plane of wall.
    - c. Twist: Plus or minus **1/16 inch (1.6 mm)**, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
    - d. Plumbness: Plus or minus **1/16 inch (1.6 mm)**, measured at jambs at floor.
- B. Glazing: Comply with installation requirements in Section 088000 "Glazing" and with hollow-metal manufacturer's written instructions.
  - 1. Secure stops with countersunk flat- or oval-head machine screws spaced uniformly not more than **9 inches (230 mm)** o.c. and not more than **2 inches (51 mm)** o.c. from each corner.

### 3.2 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow-metal work that is warped, bowed, or otherwise unacceptable.

- B. Remove grout and other bonding material from hollow-metal work immediately after installation.
- C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.
- D. Touchup Painting: Cleaning and touchup painting of abraded areas of paint are specified in painting Sections.

END OF SECTION 081113