

O115-13415

ADDENDUM NUMBER 1

CHILDREN'S COURT CENTER
INDEPENDENT COOLING SYSTEM
Site #360, Bldg. #5000
10201 West Watertown Plank Road
Wauwatosa, WI 53226

Project Number: O115-13415

Date of Addendum: May 17, 2013

This Addendum to the Contract Documents is issued to modify, explain or correct the original documents, dated May 3, 2013, and is hereby made part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form, or bid may be rejected.

This Addendum consists of 2 pages and the attached documents:

- Section 08 52 10, Aluminum windows - Acoustical – 5 pages
- Section 09 84 20, Exterior Acoustical Wall Panels – 2 pages
- ESK-01, Thruwall and Floor Conduit Seals – 1 page

BIDDING DOCUMENTS

1. None

GENERAL REQUIREMENTS (DIVISION 01):

2. Section 00 01 0, Table of Contents:
ADD – 09 84 20, Exterior Acoustical Wall Panels – 2 pages, to Table of contents.

SPECIFICATIONS (DIVISIONS 02 THRU 33):

3. Section 08 52 10, Aluminum windows - Acoustical:
DELETE – Section 08 52 10 from project manual
ADD – Revised section 08 52 10 (attached), to the project manual.
4. Section 09 84 20, Exterior Acoustical Wall Panels:
ADD – Section 09 84 20 (attached), to project manual.

DRAWINGS

5. Sheet A110, A111, demolition key notes:
CHANGE Key note #12;
#12 - SAWCUT & EXCAVATE EXISTING 5" CONCRETE SLAB ON GRADE FOR ELECTRICAL (SWITCH GEAR) AND PLUMBING (NEW FLOOR DRAIN). X-RAY FLOOR PRIOR TO SAWCUT TO VERIFY IN SLAB UNKNOWN. REVIEW X-RAY RESULTS WITH ARCHITECT & ENGINEER PRIOR TO SAWCUTTING. COORDINATE EXACT SIZE OF SAWCUT & TRENCH DEPTH WITH CONTRACTORS ACCORDINGLY. DO NOT

UNDERMINE EXISTING WALL CONDITIONS AT SWITCH GEAR LOCATION. DOWEL IN NEW SLAB INFILL INTO EXISTING AT 12" OC. PROVIDE WWF IN NEW SLAB INFILL TO MATCH EXISTING. 2 COAT SEAL NEW CONCRETE SURFACES.

6. Sheet A210, A211, New work key notes:
CHANGE Key note #19;
#19 - COORDINATE EXCAVATIONS & CORE DRILLS THROUGH EXISTING 12" CONCRETE FOUNDATION WALL, FOR ELECTRICAL. EC WILL PERFORM CORE DRILL & SEAL THEIR WORK. SEE SHEET E201, 202 FOR SCOPE OF WORK. CUT & PATCH FOUNDATION WALL DAMPROOFING PRIOR TO BACKFILLING.
7. Sheet E201, E202, new work note:
ADD the following to the note describing the underground electrical duct bank;
"THE CENTER TO CENTER SPACING OF THE CORE HOLES THROUGH THE FOUNDATION WALL SHALL BE THREE TIMES THE DIAMETER OF THE HOLE BEING DRILLED".
8. Sheet E201, E202, New work plans:
ADD- Thruwall and Floor Conduit Seals Detail indicated by ESK-01.

End of Addendum No. 1

SECTION 08 52 10
ALUMINUM WINDOWS - ACOUSTICAL
(Revisions to previous specification highlighted)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes insulated acoustical aluminum windows for exterior locations.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, and glazing and fabrication methods, dimensions of individual components and profiles, hardware, and finishes for aluminum windows.
- B. Shop Drawings: Include plans, elevations, sections, hardware, accessories, insect screens, operational clearances, and details of installation, including anchor, flashing, and sealant installation.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: For each type of aluminum window, for tests performed by a qualified testing agency.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A manufacturer capable of fabricating aluminum windows that meet or exceed performance requirements indicated and of documenting this performance by test reports, and calculations.
- B. Installer Qualifications: An installer acceptable to aluminum window manufacturer for installation of units required for this Project.
- C. Provide independent field testing following installation to assure STC ratings are met.

1.6 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace aluminum windows that fail in materials or workmanship within specified warranty period.

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1. Failures include, but are not limited to, the following:
 - a. Failure to meet performance requirements.
 - b. Structural failures including excessive deflection, water leakage, condensation, and air infiltration.
 - c. Deterioration of materials and finishes beyond normal weathering.
 - d. Failure of insulating glass.
2. Warranty Period:
 - a. Window: 10 years from date of Substantial Completion.
 - b. Glazing Units: 10 years from date of Substantial Completion.
 - c. Aluminum Finish: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain aluminum window assembly from single source manufacturer.
- B. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. Industrial Acoustics Company, "Noise lock" exterior vision wall windows. www.industrialacoustics.com. Model # VW-205. (design basis)
 2. St. Cloud Window, Ultra acoustic exterior fixed window assembly. www.stcloudwindow.com, Series 960-A9.

2.2 WINDOW PERFORMANCE REQUIREMENTS

- A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.
 1. Window Certification: AMMA certified with label attached to each window.
- B. Performance Class and Grade: AAMA/WDMA/CSA 101/I.S.2/A440 as follows:
 1. Minimum Performance Class: CW.
 2. Minimum Performance Grade: 30.
 3. Condensation resistance: CFR = 68
 4. Transmittance: 0.40 Btu/hr/ft²/0F
 5. Air Infiltration: 0 at 12psf (575N/m²)
- C. Sound Transmission Class (STC): Rated for not less than 58 when tested for laboratory sound transmission loss according to ASTM E 90 and determined by ASTM E 413.

2.3 ALUMINUM WINDOWS

- A. Operating Types: Provide the following operating types in locations indicated on Drawings:

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1. Fixed.
- B. Frames and Sashes: Aluminum extrusions complying with AAMA/WDMA/CSA 101/I.S.2/A440.
 1. Thermally Improved Construction: Fabricate frames, sashes, and muntins with an integral, concealed, low-conductance thermal barrier located between exterior materials and window members exposed on interior side in a manner that eliminates direct metal-to-metal contact.
- C. Glass Units: Manufacturers tested glass assembly as required to meet thermal & stc performance criteria;
 1. Glass: Clear.
 2. Lites: 1- 1/2" laminated + low E acoustical film.
 3. Filling: 8.5" space between glass lites with air.
 4. Lites: 1- 1/4" laminated.
- D. Glazing System:
 1. Manufactures tested Glazing assembly.
- E. Hardware, General: Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel complying with AAMA 907 or other corrosion-resistant material compatible with adjacent materials; designed to smoothly operate, tightly close, and securely lock windows, and sized to accommodate sash weight and dimensions.
 1. Exposed Hardware Color and Finish: As selected by Architect from manufacturer's full range.
- F. Fasteners: Noncorrosive and compatible with window members, trim, hardware, anchors, and other components.
 1. Exposed Fasteners: Do not use exposed fasteners to the greatest extent possible. For application of hardware, use fasteners that match finish hardware being fastened.

2.4 ACCESSORIES

- A. Subsills: Thermally broken, extruded-aluminum subsills in configurations indicated on Drawings.

2.5 FABRICATION

- A. Fabricate aluminum windows in sizes indicated. Include a complete system for assembling components and anchoring windows.
- B. Glaze aluminum windows in the factory.
- C. Weather strip each operable sash to provide weathertight installation.
- D. Weep Holes: Provide weep holes and internal passages to conduct infiltrating water to exterior.
- E. Provide water-shed members above side-hinged sashes and similar lines of natural water penetration.

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- F. Mullions: Provide mullions and cover plates, matching window units, complete with anchors for support to structure and installation of window units. Allow for erection tolerances and provide for movement of window units due to thermal expansion and building deflections, as indicated. Provide mullions and cover plates capable of withstanding design wind loads of window units.
- G. Complete fabrication, assembly, finishing, hardware application, and other work in the factory to greatest extent possible. Disassemble components only as necessary for shipment and installation.

2.6 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.7 ALUMINUM FINISHES

- A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. High-Performance Organic Finish (Three-Coat Fluoropolymer): AA-C12C40R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: conversion coatings; Organic Coating: manufacturer's standard three-coat, thermocured system consisting of specially formulated inhibitive primer, fluoropolymer color coat, and clear fluoropolymer topcoat, with both color coat and clear topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with AAMA 2605 and with coating and resin manufacturers' written instructions.
 - 1. Color and Gloss: As selected by Architect from full range of industry colors and color densities.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Field verify existing rough opening dimensions, levelness of sill plate, operational and installation clearances, prior to shop drawing submittal.
- C. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure weathertight window installation.

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- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's written instructions for installing windows, hardware, accessories, and other components. For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E 2112.
- B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction to produce weathertight construction.
- C. Install windows and components to drain condensation, water penetrating joints, and moisture migrating within windows to the exterior.
- D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.3 ADJUSTING, CLEANING, AND PROTECTION

- A. Clean exposed surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
 - 1. Keep protective films and coverings in place until final cleaning.
- B. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
- C. Protect window surfaces from contact with contaminating substances resulting from construction operations. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written instructions.

END OF SECTION

SECTION 09 84 20
EXTERIOR ACOUSTICAL WALL TREATMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Section Includes: Custom fabricated exterior acoustical wall panels.

1.3 REFERENCES

- A. ASTM International:
 - 1. ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
 - 2. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 3. ASTM E795 Standard Practices for Mounting Test Specimens During Sound Absorption Tests.

1.4 SYSTEM DESCRIPTION

- A. Performance Requirements:
 - 1. Surface Burning Characteristics (ASTM E84):
 - a. Flamespread: 25, maximum.
 - b. Smoke Developed: 450, maximum.

1.5 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit product data sheet, for specified products.
- C. Shop Drawings: Submit shop drawings showing layout, edge profiles and panel components, including anchorage, accessories, finish colors and textures.
- D. Samples: Submit selection and verification samples of finishes, colors and textures.
- E. Test Reports: Certified test reports showing compliance with specified performance requirements.
 - 1. Standard Systems: Submit certified copies of previous test reports substantiating performance of system in lieu of retesting.

1.6 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended

by the manufacturer.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Kinetics Noise Control. KNP (design basis)
 - a. Contact: PO Box 655, 6300 Irelan Place, Dublin, OH 43017; Telephone: (614) 889-0480; Fax: (614) 889-0075; E-mail: intsales@kineticsnoise.com; Web site: www.kineticsnoise.com.

2.2 MANUFACTURED UNITS

- A. Panels:
1. Thickness: 2 inches (51 mm).
 2. Size: As indicated on the drawings.
 3. Construction: 0.040 inch (1.02 mm) medium duty aluminum face, perforated with 3/32 inch (2.4 mm) holes on 3/16 inch (4.8 mm) staggered centers, providing 23% open area. 0.040 aluminum channel/stiffener framing. 2 inches (51 mm) thick, fibrous insulation sound absorber encased in 2.5 mil thick black poly embossed vinyl.
 4. Finish: Manufacturer's standard powder coated paint finish.
 - a. Color: As selected from panel manufacturer's range of standard colors.
 5. Sound Absorption (ASTM E795, A mounting): Noise Reduction Coefficient of 0.90.
 6. Mounting Accessories: Flush mount Z-clips top with angle clips bottom.

PART 3 - EXECUTION

A. MANUFACTURER'S INSTRUCTIONS

1. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

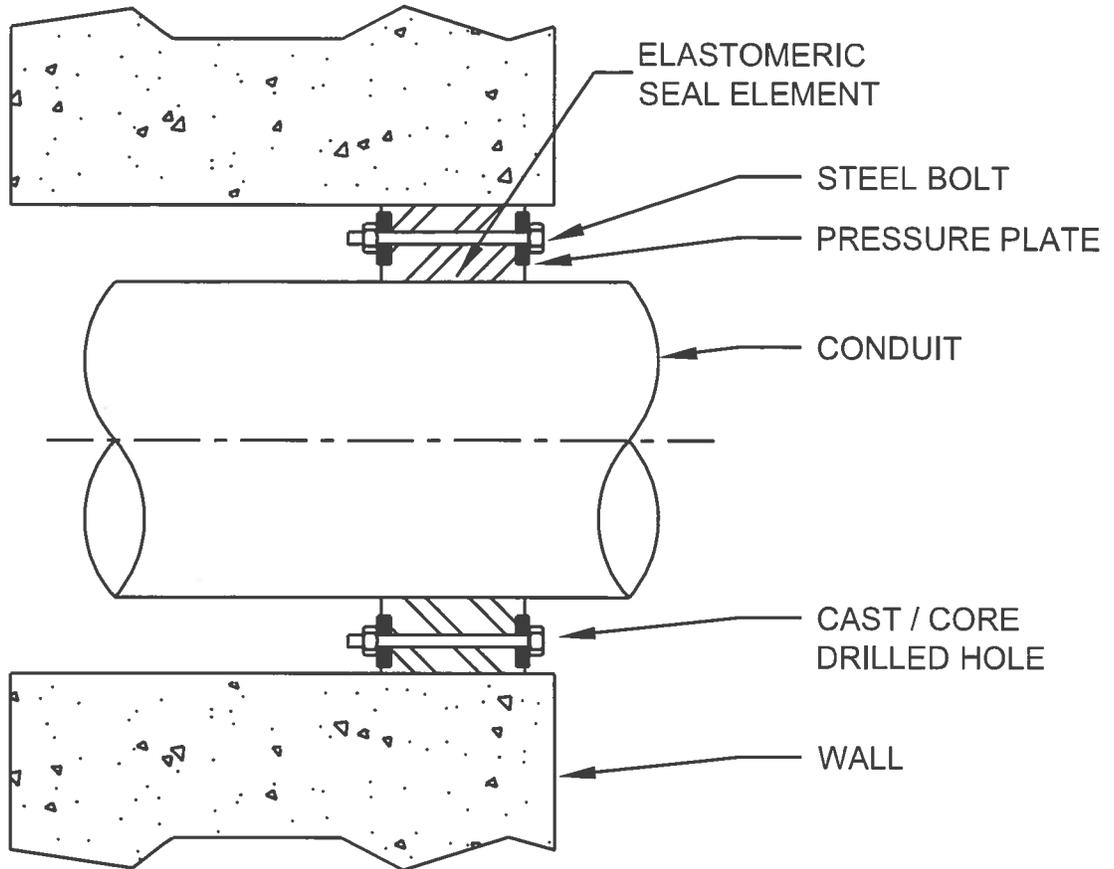
3.2 EXAMINATION

- A. Site Verification of Conditions: Verify that substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.
1. Do not install panels until unsatisfactory conditions are corrected.

3.3 CLEANING

- A. Follow manufacturer's instructions for cleaning panels soiled during installation. Replace panels that cannot be cleaned to as new condition.
- B. Keep site free from accumulation of waste and debris.

END OF SECTION



ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR EXACT CORE OPENING SIZE.

THRUWALL AND FLOOR CONDUIT SEALS
SCALE : N.T.S.

<p>CHILDREN'S COURT CENTER WEST WATERTOWN PLANK ROAD, WAUWATOSA, WI 53226</p>	<p>Milwaukee County Dept. of Administrative Services FACILITIES MANAGEMENT DIVISION Architectural, Engineering & Environmental Services CITY CAMPUS 2711 W. WELLS ST, 2ND FLOOR MILWAUKEE, WI 53208</p> 
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<p>PROJECT COOLING SYSTEMS FOR CHILDREN'S COURT</p>		<p>TITLE ADDENDUM #1 - ELECTRICAL DETAILS</p>			
<p>Grumman/Butkus Associates Energy Efficiency Consultants and Sustainable Design Engineers 1011 North Mayfair Road Suite 300 Wauwatosa, Wisconsin 53226 414.476.8980</p>		<p>SINGH SINGH + ASSOCIATES, INC CONSULTING ENGINEERS</p>	<p>DRAWN HS</p>	<p>DATE 05-14-13</p>	<p>SHEET NO ESK-01</p>
			<p>APPROVED AG</p>	<p>JOB NO 13052</p>	