

ADDENDUM NO. 4

PROJECT NAME: City Campus Central Utility Plant – 2nd Floor Addition
UNL PROJECT NUMBER: C028P243
UNL INVITATION NUMBER: 2298-14-7200

Design Professionals:

Sinclair Hille Architects – Architects
UNL FPC. – Mechanical/Electrical Engineers
Structural Design Group – Structural Engineers

DATE OF ISSUANCE: Wednesday, February 5, 2014

DATE OF BID OPENING: Wednesday, February 12, 2014—10:00 AM CST

The bid documents dated **12.20.13** for the above referenced project are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

MODIFICATIONS TO THE DRAWINGS

Sheet A1.00 – Floor Plans & Wall Types

1. Refer to Operator Floor Plan: Remove reference to 078123.A INTUMESCENT FIREPROOFING at underside of Vestibule 299A.
2. Refer to attached Operator Floor Plan sketches. Add Wall Type 6 as indicated at mechanical chases located near column grid intersections A'-3 and A.01 – 1. See Specification Section 092116.23.

Sheet M1.01 – Basement Level Mechanical/HVAC Floor Plan

3. Key note 9 refers to the supply and return duct risers being encased in gyp. board to attenuate noise. The gyp. board lagging is to be the responsibility of the Mechanical Contractor and is to be applied over the insulation. The ductwork is to be insulated per the insulation specification which is modified per this addendum. This lagging is to be double layer 5/8" "green board" screwed directly to the ductwork thru the rigid insulation. Extend the lagging from second floor down to the point of exit from the chase space. Overlap joints and layers to create a continuous sound barrier but not taping or mudding of seams will be necessary. Additional support of the ductwork may be necessary to handle the weight of the lagging.

Sheet M2.01 – Second Level HVAC Floor Plan

4. Provide fire dampers referred to in keynote 1 in ductwork above ceiling of second floor at exit of mechanical chase. Dampers shall be in an accessible location.

MODIFICATIONS TO THE PROJECT MANUAL

Section 055116 – Metal Floor Plate Stairs

1. Refer to Section 2.6.C: Delete requirement for not being less than 1/4" inch. Design of plate must meet the structural requirements of the stair as specified.

Section 092116.23 – Gypsum Board Shaft Wall Assemblies

2. Section added (see attachments).

Section 23 07 13 – Ductwork Insulation

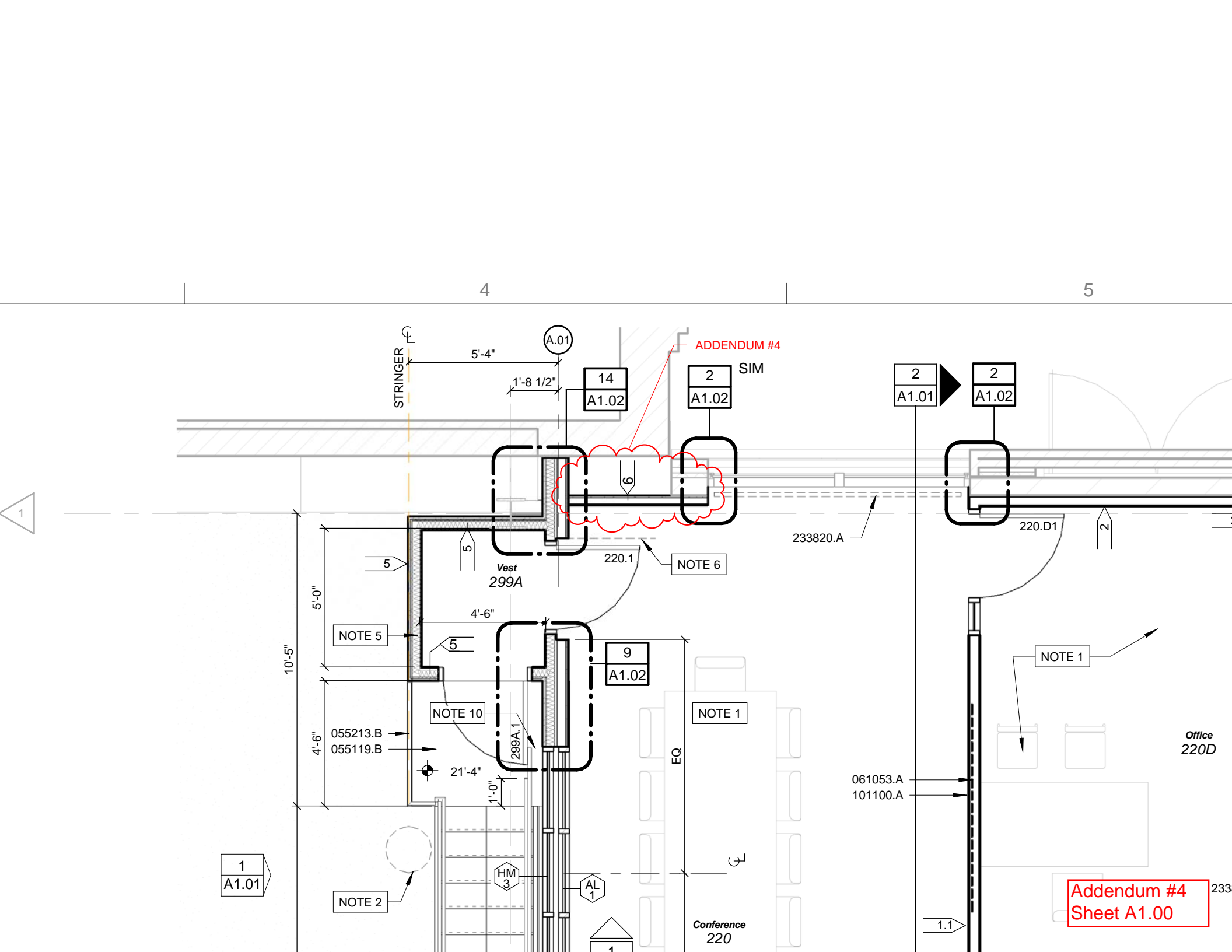
3. Paragraph 3.3 Ductwork Insulation Schedule shall be as follows:

Ductwork Application:	Type:	Thickness:	Vapor Barrier Required (Y/N):	Protective Jacket
Exposed rectangular outside air duct in mechanical rooms and chases	Rigid	2"	Y	N
Exposed rectangular supply air duct in mechanical rooms and chases	Rigid	2"	Y	N
Exposed round supply air duct in mechanical rooms	Flexible	2"	Y	N
Exposed rectangular and round return air duct in mechanical rooms	Rigid	2"	N	N
Exposed rectangular and round return air duct or exhaust air duct in other areas	Rigid	2"	N	Y-PVC
Exposed rectangular and round supply air duct upstream of terminal units	Flexible	2"	Y	Y-PVC
Concealed rectangular and round supply air duct upstream of terminal units	Flexible	2"	Y	N
Concealed rectangular supply air duct downstream of terminal units	Liner	1/2"	Y	N
Concealed round supply air duct downstream of terminal units	Flexible	2"	Y	N
Concealed return air duct	Liner	1"	Y	N
Concealed exhaust air duct	None required unless shown on plans			
Return air grille boots/transfer ducts (where indicated on drawings)	Liner	1"	N	N
Exterior Ductwork	Exterior	2"	Y	Y-Metal

END OF ADDENDUM NO. 4

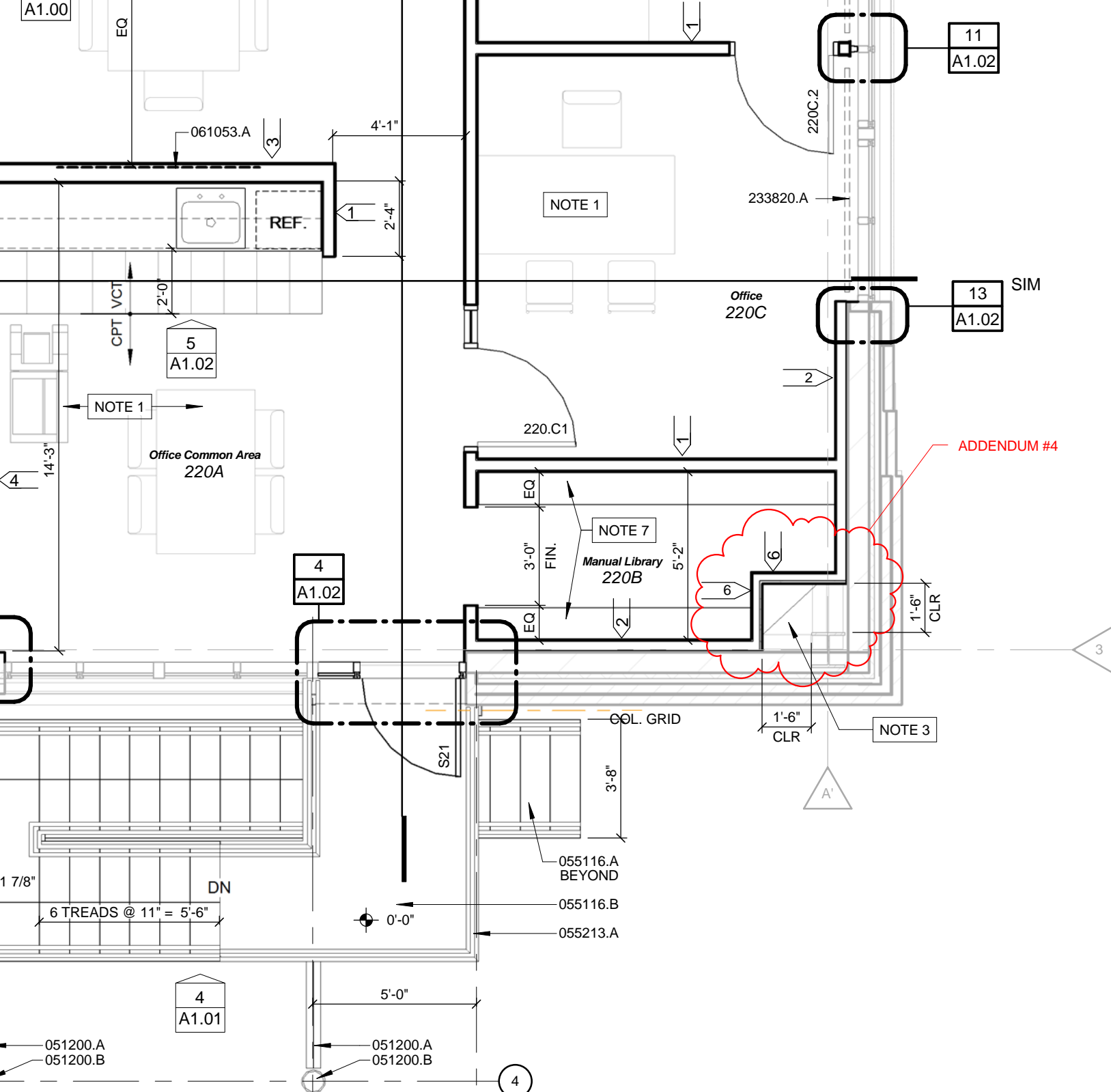
4

5



Addendum #4
Sheet A1.00

233



- 101100.A MARKER BOARD - 4' HIGH X 8' LO
- 138400.B FLOOR ISOLATION ROLL-OUT ME
- 138400.C PERIMETER ISOLATION MATERIA
- 138400.D PLYWOOD
- 138410.A WALL ACOUSTIC ISOLATION PAD
- 138410.B WALL ISOLATOR BUSHING
- 233820.A FINNED-TUBE RADIATION HEATE

SHEET A100 SHEET SPEC

- NOTE 1 FURNISHINGS & EQUIPMENT SHOW
- NOTE 2 EXISTING PIPE TO REMAIN
- NOTE 3 MECHANICAL CHASE; COORDINATE ALL TRADES
- NOTE 4 REMOVE CURTAINWALL AS-NEEDED THROUGHOUT DURATION OF CONSTRUCTION TO ORIGINAL CONFIGURATION AND IS NO LONGER REQUIRED.
- NOTE 5 POCHES DENOTES EXTENT OF ACOUSTIC WALL TYPES FOR ADDITIONAL PLAN.
- NOTE 6 ALIGN FINISHED FACE OF WALL WITH
- NOTE 7 SHELVING BY OWNER; SHOWN FOR THIS SHEET.
- NOTE 8 GWB COLUMN FIREPROOFING - ULX
- NOTE 9 GWB BEAM FIREPROOFING - UL N50
- NOTE 10 GUARDRAIL TO EXTEND TO NORTH
- NOTE 11 CENTER COLUMN ON EXISTING CUR
- NOTE 13 CENTER COLUMN ON BRICK MASON
- NOTE 14 COLUMN GRID 4.0 TO CLEAR EXISTI
- NOTE 15 EXISTING CONCRETE SIDEWALK
- NOTE 16 CENTER MECHANICAL LOUVER AS S

Addendum #4
Sheet A1.00

SECTION 092116.23 - GYPSUM BOARD SHAFT WALL ASSEMBLIES

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: Gypsum board shaft wall assemblies.

1.3 ACTION SUBMITTALS

- A. Product Data: For each component of gypsum board shaft wall assembly.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.5 FIELD CONDITIONS

- A. Environmental Limitations: Comply with ASTM C 840 requirements or with gypsum board manufacturer's written recommendations, whichever are more stringent.
- B. Do not install interior products until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, moisture damaged, or mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, and irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.

2.2 GYPSUM BOARD SHAFT WALL ASSEMBLIES (Wall Type 6)

- A. Fire-Resistance Rating: 1 hour.
- B. Studs: Manufacturer's standard profile for repetitive members, corner and end members, and fire-resistance-rated assembly indicated.
 - 1. Depth: 2-1/2 inches (64 mm).
 - 2. Minimum Base-Metal Thickness: 0.033 inch (0.84 mm).
- C. Runner Tracks: Manufacturer's standard J-profile track with manufacturer's standard long-leg length, but at least 2 inches (51 mm) long and matching studs in depth.
 - 1. Minimum Base-Metal Thickness: 0.033 inch (0.84 mm).
- D. Firestop Tracks: Provide firestop track at head of shaft wall on each floor level.
- E. Room-Side Finish: Gypsum board.
- F. Shaft-Side Finish: Gypsum shaftliner board, moisture- and mold-resistant Type X.

2.3 PANEL PRODUCTS

- A. Panel Size: Provide in maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.
- B. Gypsum Shaftliner Board, Moisture- and Mold-Resistant Type X: ASTM C 1396/C 1396M; manufacturer's proprietary fire-resistive liner panels with moisture- and mold-resistant core and surfaces.
 - 1. Products: Requests for product substitutions prior to bidding will be reviewed and responded to in conformance with Division 1 requirements. Subject to compliance with requirements, provide one of the following or comparable product pre-approved during bidding:
 - a. CertainTeed Corp.; ProRoc Moisture and Mold Resistant Shaftliner.
 - b. Georgia-Pacific Gypsum LLC, Subsidiary of Georgia Pacific; Dens-Glass Ultra Shaftliner.
 - c. Lafarge North America, Inc.; Firecheck Moldcheck Type X Shaftliner.

- d. National Gypsum Company; Gold Bond Brand Fire-Shield Shaftliner XP.
 - e. PABCO Gypsum; Pabcore Mold Curb Shaftliner Type X.
 - f. Temple-Inland Inc.; Fire-Rated SilentGuard TS Mold-Resistant Gypsum Shaftliner System.
 - g. USG Corporation; Sheetrock Brand Mold Tough Gypsum Liner Panel.
- 2. Thickness: 1 inch (25.4 mm).
 - 3. Long Edges: Double bevel.
 - 4. Mold Resistance: ASTM D 3273, score of 10 as rated according to ASTM D 3274.
- C. Gypsum Board: As specified in Section 092900 "Gypsum Board."

2.4 NON-LOAD-BEARING STEEL FRAMING

- A. Recycled Content of Steel: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
- B. Steel Framing Members: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
- 1. Protective Coating: Coating with equivalent corrosion resistance of ASTM A 653/A 653M, G40 (Z120) unless otherwise indicated.
- C. Firestop Tracks: Top runner manufactured to allow partition heads to expand and contract with movement of the structure while maintaining continuity of fire-resistance-rated assembly indicated; in thickness not less than indicated for studs and in width to accommodate depth of studs.
- 1. Products: Requests for product substitutions prior to bidding will be reviewed and responded to in conformance with Division 1 requirements. Subject to compliance with requirements, provide one of the following or comparable product pre-approved during bidding:
 - a. Fire Trak Corp.; Fire Trak System attached to studs with Fire Trak Posi Klip.
 - b. Grace Construction Products; FlameSafe FlowTrak System.
 - c. Metal-Lite, Inc.; The System.
 - d. Steel Network Inc. (The); VertiClip SLD or VertiTrack VTD Series.

2.5 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with manufacturer's written recommendations.
- B. Trim Accessories: Cornerbead, edge trim, and control joints of material and shapes as specified in Section 092900 "Gypsum Board" that comply with gypsum board shaft wall assembly manufacturer's written recommendations for application indicated.
- C. Steel Drill Screws: ASTM C 1002 unless otherwise indicated.

- D. Track Fasteners: Power-driven fasteners of size and material required to withstand loading conditions imposed on shaft wall assemblies without exceeding allowable design stress of track, fasteners, or structural substrates in which anchors are embedded.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates to which gypsum board shaft wall assemblies attach or abut, with Installer present, including hollow-metal frames, elevator hoistway door frames, cast-in anchors, and structural framing. Examine for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, or mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Sprayed Fire-Resistive Materials: Coordinate with gypsum board shaft wall assemblies so both elements of Work remain complete and undamaged. Patch or replace sprayed fire-resistive materials removed or damaged during installation of shaft wall assemblies to comply with requirements specified in Section 078100 "Applied Fireproofing."
- B. After sprayed fire-resistive materials are applied, remove only to extent necessary for installation of gypsum board shaft wall assemblies and without reducing the fire-resistive material thickness below that which is required to obtain fire-resistance rating indicated. Protect remaining fire-resistive materials from damage.

3.3 INSTALLATION

- A. General: Install gypsum board shaft wall assemblies to comply with requirements of fire-resistance-rated assemblies indicated, manufacturer's written installation instructions, and ASTM C 754 other than stud-spacing requirements.
- B. Install supplementary framing in gypsum board shaft wall assemblies around openings and as required for blocking, bracing, and support of gravity and pullout loads of fixtures, equipment, services, heavy trim, furnishings, wall-mounted door stops, and similar items that cannot be supported directly by shaft wall assembly framing.
- C. Penetrations: At penetrations in shaft wall, maintain fire-resistance rating of shaft wall assembly by installing supplementary steel framing around perimeter of penetration and fire protection behind boxes containing wiring devices, elevator call buttons, elevator floor indicators, and similar items.

- D. Isolate perimeter of gypsum panels from building structure to prevent cracking of panels, while maintaining continuity of fire-rated construction.
- E. Firestop Tracks: Where ratings are indicated on Life-Safety plans, install to maintain continuity of fire-resistance-rated assembly indicated.
- F. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch (3 mm) from the plane formed by faces of adjacent framing.

3.4 PROTECTION

- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, or mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, and irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 092116.23