ADDENDUM NO. 3

The Architect/ Engineer issues this addendum, applicable to the above named project, to all known Contractors before receipt of proposal.

This addendum includes Item Number 3-1 thru 3-28 . This addendum item shall be fully incorporated into the Bidding/Contract Documents and have the same force and effect as though originally included.

The Bidder shall acknowledge receipt of this Addendum No. 3 on the Bid Proposal Form in the place provided.

GENERAL

Item 3-1: Addendum #2

Item 2-13: A0.2 shall read **A0.1**
Item 2-20: Refer to Museum 114, Delete Note, "See supplemental drawing SDA-005."
Item 2-21: Add note, **"See supplemental drawings SDA-009."**
Item 2-27: F2.1 shall read **F2.2**
Item 2-28: F2.2 shall read **F2.3**

Specifications

Item 3-2: Section 08710 – Finish Hardware, 3.3 Hardware Schedule

Set 1.0: Change Lockset function from Classroom to Entrance, 93K7AB
Set 3.0: Add Thumb piece dogging to Exit Device.
Set 4.0: Add Thumb piece dogging to Exit Device
Set 9.0: Add Electric strike wired to interior button to release door when locked
Set 15.0: Change Lock from Storeroom to Classroom function, 93K7R
Set 16.0: Change operator from Stanley Swingmaster to Stanley Magic-Force.
Set 16.0: Add Electric strike wired to interior button to release door when locked

Item 3-3: Section 11601 – Laboratory Fume Hoods and Other Air Containment Units

Refer to Subparagraph 2.1.1. Note that subject to compliance with all specification requirements, Air Master Systems is an approved manufacturer for Chemical Fume Hoods for this project. Further note that this manufacturer shall be responsible for verifying and documenting compliance with all specification and drawing requirements regardless if this constitutes manufacturing custom products. All costs for such compliance shall be included in base bid.

Item 3-4: Section 12347 – Metal Laboratory Casework and Fixtures

Refer to Subparagraph 2.1.2. Note that subject to compliance with all specification requirements, Air Master Systems is an approved manufacturer for Metal Laboratory Casework and Fixtures for this project. Further note that this manufacturer shall be responsible for verifying and documenting compliance with all specification and drawing requirements regardless if this constitutes manufacturing custom products. All costs for such compliance shall be included in base bid.

Item 3-5: Section 12348 – Wood Laboratory Casework and Fixtures

Refer to Subparagraph 2.1.1. Note that subject to compliance with all specification requirements, Diversified Woodcrafters, Inc. is an approved manufacturer for Wood Laboratory Casework and Fixtures for this project. Further note that this manufacturer shall be responsible for verifying and documenting compliance with all specification and drawing requirements regardless if this constitutes manufacturing custom products. All costs for such compliance shall be included in base bid.

Item 3-6: Section 123554 – Stainless Steel Laboratory Casework

Add specification section in its entirety.

Drawings

Item 3-7: Sheet A1.5 – Reflected Ceiling First Floor Plan

Add Penthouse Reflected Ceiling Plan in Stair. See supplemental drawing SDA-012.

Item 3-8: Sheet A3.1 – Misc. Details Stair Section

Reissue A3.1 in its entirety.

Item 3-9: Sheet A6.1 – Interior Elevation, Enlarged Floor Plan

See supplemental drawing SDA-013.

Item 3-10: Sheet A6.2 – Door & Frame Types, Door Schedule, Aluminum Frames, Casework Details

Refer to Door Schedule:
Door G06 – change door/fire rating from 1-HR to **90MIN**.
Door 106C – change frame type from HMF-1 to **HMF-2.**

Item 3-11: Sheet F1.2 – Finish Materials List / Room Finish Schedule

Add PT-7: Diamond Vogel
Color: Realist Beige, SW6078

Add Note #14: Handrails, steel guard rail components & steel guard panels to be PT-7.

Item 3-12: Sheet F1.3 – Finish Materials List / Room Finish Schedule

Add PT-7: Diamond Vogel
Color: Realist Beige, SW6078

Add Note #14: Handrails, steel guard rail components & steel guard panels to be PT-7.

Refer to Conference 107H: Add **WC-1** tag to window.

Item 3-13: Sheet LF0.1 – Laboratory Casework Elevations

Refer to Detail 5: Delete note 3'-0" dp. Hardwood countertop. Add note **"3'-0" dp. Epoxy countertop."**

Mechanical

Specifications

Item 3-14: Section 15260 – Piping Insulation

Reference Paragraph 3.4.1: Add condensate pumped discharge, pipe size 1 ½" and larger, to have 2" thickness insulation.

Item 3-15: Section 15411 – Pure Water Piping

Piping labeled as DI or deionized on plans to be considered pure water piping and provided as specified for Pure Water Piping.

Drawings

Item 3-16: Sheet M1.2 – Ground Floor HVAC Plan - Area A

Change Chemical Storage Room G03 terminal unit to a constant volume type air terminal unit with reheat coil and change mark to CBR-12-G3, in lieu of VBR-12-G3**.** Associated chemical storage room rooftop exhaust fan (EF-21) to remain on at all times.

Item 3-17: Sheet M7.1 – Mechanical Schedules

Reference Air Terminal Unit and Reheat Coil Schedule: Change Chemical Storage Room G03 terminal unit to a constant volume type air terminal unit with reheat coil and change mark to CBR-12-G3, in lieu of VBR-12-G3**.** Performance capacity to remain as scheduled. Also add Remark #7 to this terminal unit.

Reference Packaged Air Handling Unit Schedule: In the supply fan section (SF-4) change the combined fan array total static capacity to 5.842 in. wc. and add the total external static capacity to be 4.75 in. wc.. Also add shaft grounding kits on all SF-4 and RF-4 fans.

Item 3-18: Addendum #2, Item 2-43

Change moving of EF-4 to farther to the East, in lieu of West.

Item 3-19: Addendum #2, Item 2-46

Change Reference to Sheet M2.7 in lieu of Sheet M1.2.

Electrical

Specifications

Item 3-20: Specification 16500, Lighting
Refer to section 2.3.5: Change ballasts to programmed rapid start for T8 lamp applications.

Item 3-21: Specification 16500, Lighting
The following lighting fixtures have been reviewed in accordance with paragraph 2, and are included in the Contract Documents for bidding purposes. All fixtures, lamps, and ballasts are required to meet the specification requirements regardless of prior approval. Prior approval does not waive any requirements indicated on the drawings or the specifications. Some fluorescent fixtures require dimming or multiple levels of switching. The required number and types of ballasts shall be provided to meet the switching requirements shown on the drawings.

Type	Manufacturer and Catalog Number	
F	Winona:	SSRU-SS-CFQ26-277-P1-SGW-X-STD
F	Cooper:	SN-SI-N-1-CF-026-UNV-W-SRI-D
H	Pinnacle:	E4A-2T5-G1G-8'-STEP-DIMMED
M	Pinnacle:	CJ24R-3T8-G-UNV-STEP-DIMMED
P	Pinnacle:	CRW7-2-32-4FT-R4-277-GEB10-SCT-L/LP-SCEP
Q	Gotham:	ALED-50/14-6AR-277-ECOS3
U	Pinnacle:	2UC-1-14T5-277-GEB10PS

Note: Refer to light fixture type ‘K’ and ‘L’ changes on sheet E5.1 in this addendum.

Item 3-22: Lighting Sheets
Clarification: All lights that are connected to a Bodine emergency lighting relay control switch are to be switched with room lighting.

The following timer switch is an approved equal:
Cooper Greengate: TSW-MV

Item 3-23: Sheet E1.0–Basement Floor Lighting Plan

Change light fixture type ‘W’ located in alcove between doors to planetarium and planetarium lobby to a wall mounted fixture, Columbia: W-4-1-32-EP-U. (Note: The other type ‘W’ light fixture in stair area to remain)

Item 3-24: Sheet E1.4–First Floor Lighting Plan – Area B

See light switch and occupancy sensor location changes on supplemental drawing SDE002 for changes to Office 107C & Office 107D. Door location and room layout changed.

Item 3-25: Sheet E1.6–Penthouse Lighting Plan

Change the timer switch for exterior light fixture type 'N' to a regular light switch.

Add a type 'N' light fixture above the north double doors leading to roof. Add a regular light switch on inside of building on east side of double doors for exterior light control. Connect light fixture to circuit EH3-9 with #12 wire in 1/2" conduit.

Item 3-26: Sheet E2.1–Ground Floor Power & Auxiliary Systems Plan – Area A

Refer to entrance Door G15 between grid lines 3.2 & 3.8. Electric strikes are being added to this double door. Coordinate strike location with architectural drawings. Provide a 1/2" conduit path from door strike to existing handicap door operator. Provide all necessary wiring between strike and door operator as required for a fully functional system.

Item 3-27: Sheet E2.4–First Floor Power & Auxiliary Systems Plan – Area B

See electrical changes on supplemental drawing SDE003 for changes to Office 107C & Office 107D. Door location and room layout changed.

Refer to entrance Door 114 between grid lines 23 & 24. Electric strikes are being added to this double door. Coordinate strike location with architectural drawings. Provide a 1/2" conduit path from door strike to existing handicap door operator. Provide all necessary wiring between strike and door operator as required for a fully functional system.

Item 3-28: Sheet E5.1–Electrical Schedules

Refer to the Lighting Fixture Schedule:
Change type 'K' model number to: AKTSLED**3**-50K-**9**-SP18-PS-WH
Change type 'L' model number to: AKTSLED**3**-50K-**9**-FL35-PS-WH

Refer to the Lighting Relay Panel Schedule:
Add Cooper LiteKeeper 4, model: LK4 as an acceptable equivalent.

END OF ADDENDUM NO. 3

SECTION 123554 – STAINLESS STEEL LABORATORY CASEWORK

1. GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.2 SUMMARY

A. This Section includes the following:

1. Stainless Steel casework.
2. Stainless Steel Work surfaces.
3. Accessory equipment.

B. Related Sections: The following Sections contain requirements that relate to this Section:

1. For stainless steel fume hoods and accessories see Section 11 53 13.

1.3 CASEWORK DESIGN REQUIREMENTS

A. Flush construction: Surfaces of doors, drawers and panel faces shall align with cabinet fronts without overlap of case ends, top or bottom rails. Horizontal and vertical case shell members (panels, top rails and bottoms) shall meet in the same plane without overlap, cracks or crevices.

B. Slimline styling: Front width of end panels ¾” and front height of top and bottom members 1”.

C. Self-supporting units: Completely welded shell assembly without applied panels at ends, backs or bottoms, so that cases can be used interchangeably or as a single, stand-alone unit.

D. Interior of case units: Easily cleanable, flush interior. Base cabinets, 30” and wider, with double swinging doors shall provide full access to complete interior without center vertical post.

E. Case openings: Rabbeted-like joints all four sides of case opening for hinged doors in order to provide dust resistant case.

F. Framed glazed doors: Identical in construction, hardware and installation to solid panel doors. Design frame glazed doors to be removable for glass replacement.

1.4 CASEWORK PERFORMANCE REQUIREMENTS

A. Structural performance requirements: Casework components shall withstand the following minimum loads without damage to the component or to the casework operation.

1. Steel base unit load capacity: 500 lbs. per lineal foot.
2. Suspended units: 300 lbs.
3. Drawers in cabinet: 150 lbs.
4. Hanging wall cases: 300 lbs.
5. Load capacity for shelves of base units, wall cases and tall cases: 40 lbs. per square foot.

1.5 WORK SURFACE PERFORMANCE REQUIREMENTS

1.6 SUBMITTALS

A. Shop Drawings: Provide ¾" = 1'-0" scale elevations of individual and battery of casework units, cross sections, rough-in and anchor placements, tolerances and clearances. Indicate relation of units to surrounding walls, windows, doors and other building components. Provide ¼" = 1'-0" rough-in plan drawings for coordination with trades. Rough-in shall show free area.

B. Product Data: Submit manufacturer's data for each component and item of laboratory equipment specified. Include component dimensions, configurations, construction details, and attachments, utility and service requirements and locations.

C. Product Samples Upon Request: Submit for approval:

1. Stainless Steel Sample.

1.7 QUALITY ASSURANCE

A. Single source responsibility: Casework, work surfaces, laboratory fume hood and equipment and accessories shall be manufactured or furnished by a single laboratory furniture company.

B. Manufacturer's qualifications: Modern plant with proper tools, dies, fixtures and skilled workmen to produce high quality laboratory casework and equipment, and shall meet the following minimum requirements.

1. Ten years or more experience in manufacture of laboratory casework and equipment of type specified.
2. Ten installations of equal or larger size and requirements.

C. Installer's qualifications: Factory trained and/or certified by the manufacturer.

D. Cabinet identification: Cabinets are identified on drawings by specific description. Dimensions shown are approximate.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Schedule delivery of casework and equipment so that spaces are sufficiently complete that material can be installed immediately following delivery.

B. Protect finished surfaces from soiling or damage during handling and installation. Keep covered with polyethylene film or other protective coating.

C. Protect all work surfaces throughout construction period with ¼" corrugated cardboard completely covering the top and securely taped to edges. Mark cardboard in large lettering "No Standing."

1.9 PROJECT CONDITIONS

A. Do not deliver or install equipment until the following conditions have been met:

1. Windows and doors are installed and the building is secure and weathertight.

2. PRODUCTS

2.1 MANUFACTURERS

A. Subject to compliance with requirements, provide casework and equipment from one of the following:

1. Advanced Lab Concepts, (800) 711-5227.
2. Campbell Rhea, (731) 642-4251.
3. Fischer Hamilton Scientific, Inc, (920) 793 1121.
4. Jamestown Metal Products (816) 471-2929.
5. Kewaunee Scientific Corporation, (704) 873-7202.
6. Mott Manufacturing, (519) 752-7825.

2.2 CASEWORK MATERIALS

A. Sheet steel: Mild, cold rolled and leveled #304 stainless steel. (#4 polished sheen on all exposed surfaces)

B. Minimum gauges:

1. 20 gauge: Solid door interior panels, drawer fronts, scribing strips, filler panels, enclosures, drawer bodies, shelves and security panels.

2. 18 gauge: Case tops, ends, bottoms, bases, backs, vertical posts, uprights, glazed door members, door exterior panels and access panels.
3. 16 gauge: Top front rails, top rear gussets, intermediate horizontal rails, table legs and frames, left rails and stretchers.
4. 14 gauge: Drawer suspensions, door and case hinge reinforcements and front corner reinforcements.
5. 11 gauge: Table leg corner brackets and gussets for leveling screws.

C. Glass for glazed swinging doors: 1/8" (3mm) framed doors, 7/32" (6mm) unframed doors thick, clear float glass.

2.3 CASEWORK FABRICATION

A. Base Units and Cases:

1. Wall cases: End panels and back reinforced with internal reinforcing front and rear posts.
2. Posts: Front post fully closed with full height reinforcing upright. Shelf adjustment holes in front and rear posts shall be perfectly aligned for level setting, adjustable to ½" o.c.
3. Secure intersection of case members with spot and arc welds. Provide gusset reinforcement at front corners.
4. Bottoms: Wall cases shall have one piece bottom with front edge formed into front rail, rabbeted as required for swinging doors and drawers and flush design for sliding doors.
5. Horizontal intermediate rails: Recessed behind doors and drawer fronts.
6. Tops of wall cases: One piece, with front edge formed into front rail.

B. Drawers:

1. Manufacturers standard assembly.

C. Doors:

1. Solid panel and glazed doors: ¾" thick, double wall, telescoping box stainless steel construction with interior polished and sound deadened, top corners welded and ground smooth. Reinforce interior of front panel with welded stainless steel hat channels. Hinges with screw to internal 14 gauge reinforcing in case and door. Hinges shall be removable; welding of hinges not acceptable. Doors shall close against rubber bumpers.

D. Shelves:

1. Form front and back edges down and back ¾". Form ends down ¾".
2. Reinforce shelves over 36" long with welded hat channel reinforcement the full width of shelf.

E. Hardware:

1. Door pulls: Stainless steel wire pull – screws attached on 4" centers.

2. Hinges: Institutional type, five knuckle projecting barrel hinges, minimum 2-1/2" long, type 302 or 304 stainless steel. Provide two hinges for doors up to 36" high; three hinges for doors over 36" high. Drill each leaf for three stainless steel screw attachment to door and frame.
3. Door catches: Adjustable type, spring actuated nylon roller catches.
4. Elbow catches: Spring type of cadmium plated steel, with strike of suitable design.
5. Label holders: No label holders are required for stainless steel laboratory casework.
6. Shelf clips: Die formed, stainless steel designed to engage in shelf adjustment holes.

2.4 WORK SURFACES

A. Material: 14 gauge, Type 304 stainless steel with No. 4 polish finish on all exposed surfaces and edges.

B. Tops: Form tops with one inch lip and ½" return flange, and provide 16 gauge steel reinforcing channels applied to underside as required for rigidity and sound dampening. Form edges, flanges and curbs integrally with top, from one sheet of metal. Provide with integral stainless steel backsplash.

C. Sink tops: Provide seamless, die formed 3/16" high integral marine edges at sink tops, and pitch top to sink bowl. Unless otherwise noted, provide marine edges at all tops. Coat underside of tops which include integral sink and/or drain boards with sound dampening material.

D. Joints: Electrically weld all shop joints; grind smooth and polish. Design field joints to be mechanically bolted and supported full length, resulting in a hair line seam with perfectly aligned, flat, level surfaces each side of joint.

2.5 SINKS, DRAINS AND TRAPS

A. Stainless steel sinks and cup sinks: Type 304, 16 gauge stainless steel with No. 4 polish finish.

1. Weld, grind smooth and polish to seamless joint, integral with top.
2. Provide with perforated strainer and tailpiece.

2.6 LABORATORY FITTINGS

A. See Division 22 for all laboratory fittings.

3. EXECUTION

3.1 INSTALLATION

A. Casework installation:

1. Set casework components plumb, square, and straight with no distortion and securely anchored to building structure. Shim as required using concealed shims.
2. Bolt continuous cabinets together with joints flush, tight and uniform, and with alignment of adjacent units within 1/16" tolerance.
3. Secure wall cabinets to solid supporting material, not to plaster, lath or gypsum board.
4. Abut top edge surfaces in one true plane. Provide flush joints not to exceed 1/8" between top units.

B. Work surface installation:

1. Where required due to field conditions, scribe to abutting surfaces.
2. Only factory prepared field joints, located per approved shop drawings, shall be permitted. Secure joints in field, where practicable, in the same manner as in factory, with dowels, splines, adhesive or fasteners recommended by manufacturer.
3. Secure work surfaces to casework and equipment components with material and procedures recommended by the manufacturer.

C. Accessory installations: Install accessories and fittings in accordance with manufacturer's recommendations. Turn screws to seat flat; do not drive.

3.2 ADJUSTING

A. Repair or remove and replace defective work, as directed by (Architect) (Owner) upon completion of installation.

B. Adjust doors, drawers, hardware, fixtures and other moving or operating parts to function smoothly.

3.3 CLEANING

A. Clean shop finished casework, repair as required.

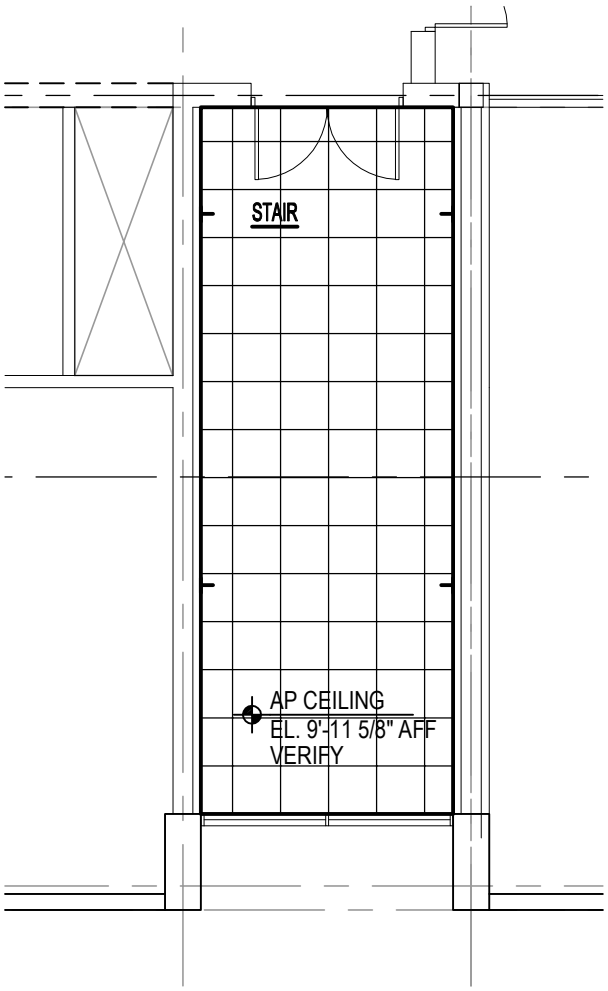
B. Clean countertops with diluted dishwashing liquid and water leaving tops free of all grease and streaks. Use no wax or oils.

3.4 PROTECTION OF FINISHED WORK

A. Provide all necessary protective measures to prevent exposure of casework and equipment from exposure to other construction activity.

B. Advise contractor of procedures and precautions for protection of material, installed laboratory casework and fixtures from damage by work of other trades.

END OF SECTION 123554



A
003

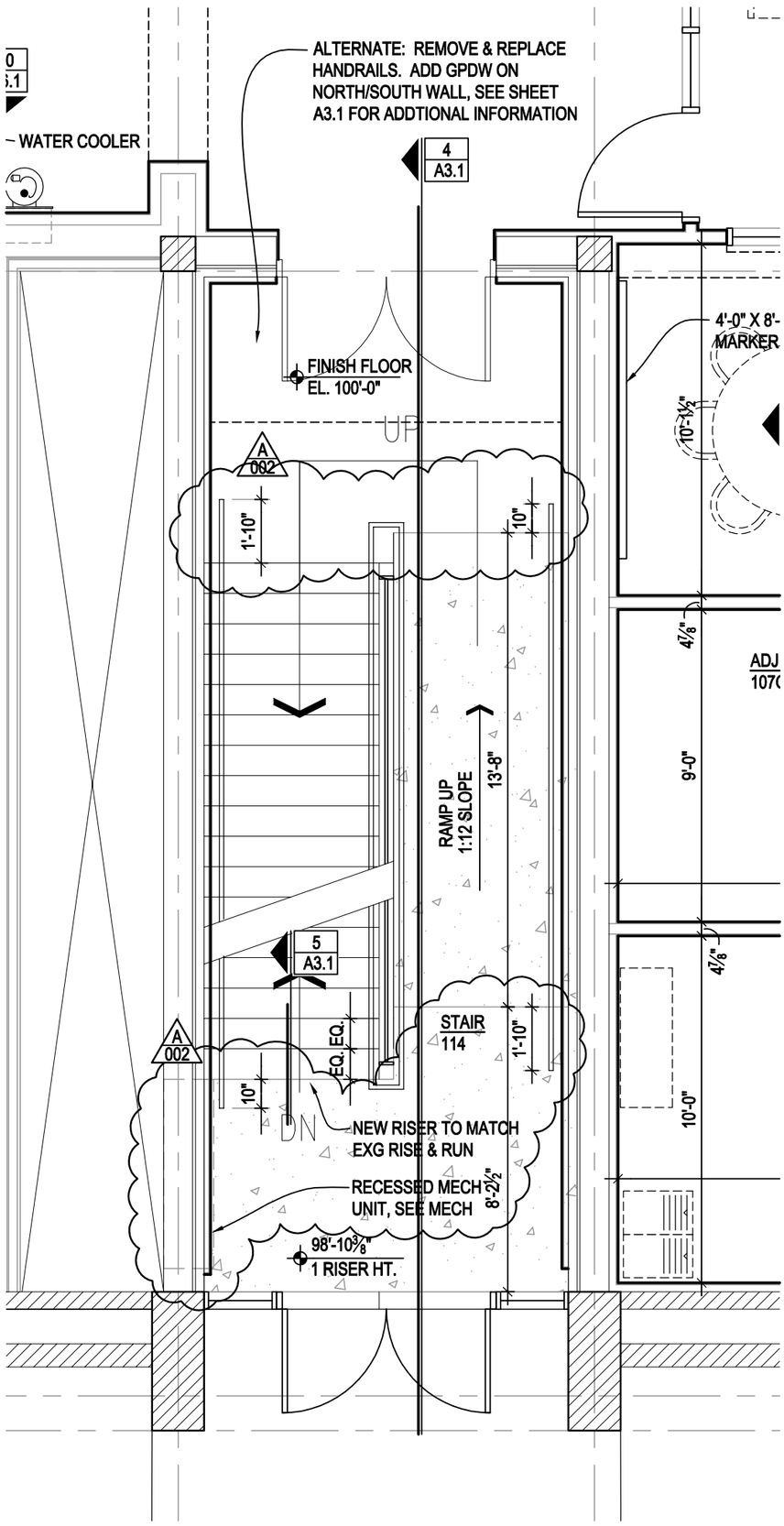
PENTHOUSE REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

The Clark Enersen Partners
Architecture + Landscape Architecture + Engineering + Interiors
1010 Lincoln Mall, Suite 200 Lincoln, NE 68508-2883
402 477.9291 Fax 402 477.6542
Kansas City, MO Overland Park, KS www.clarkenersen.com

Wayne State College
Wayne, NE
TCEP Project No.: 645-017-11

Addendum #03
Supplemental Drawing: SDA-012
Revision of Sheet: A1.4
Date: April 13, 2012



27 ENLARGED STAIR PLAN

SCALE: 1/4"=1'-0"

The Clark Enersen Partners
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Landscape Architecture
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Interiors
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Lincoln, Nebraska
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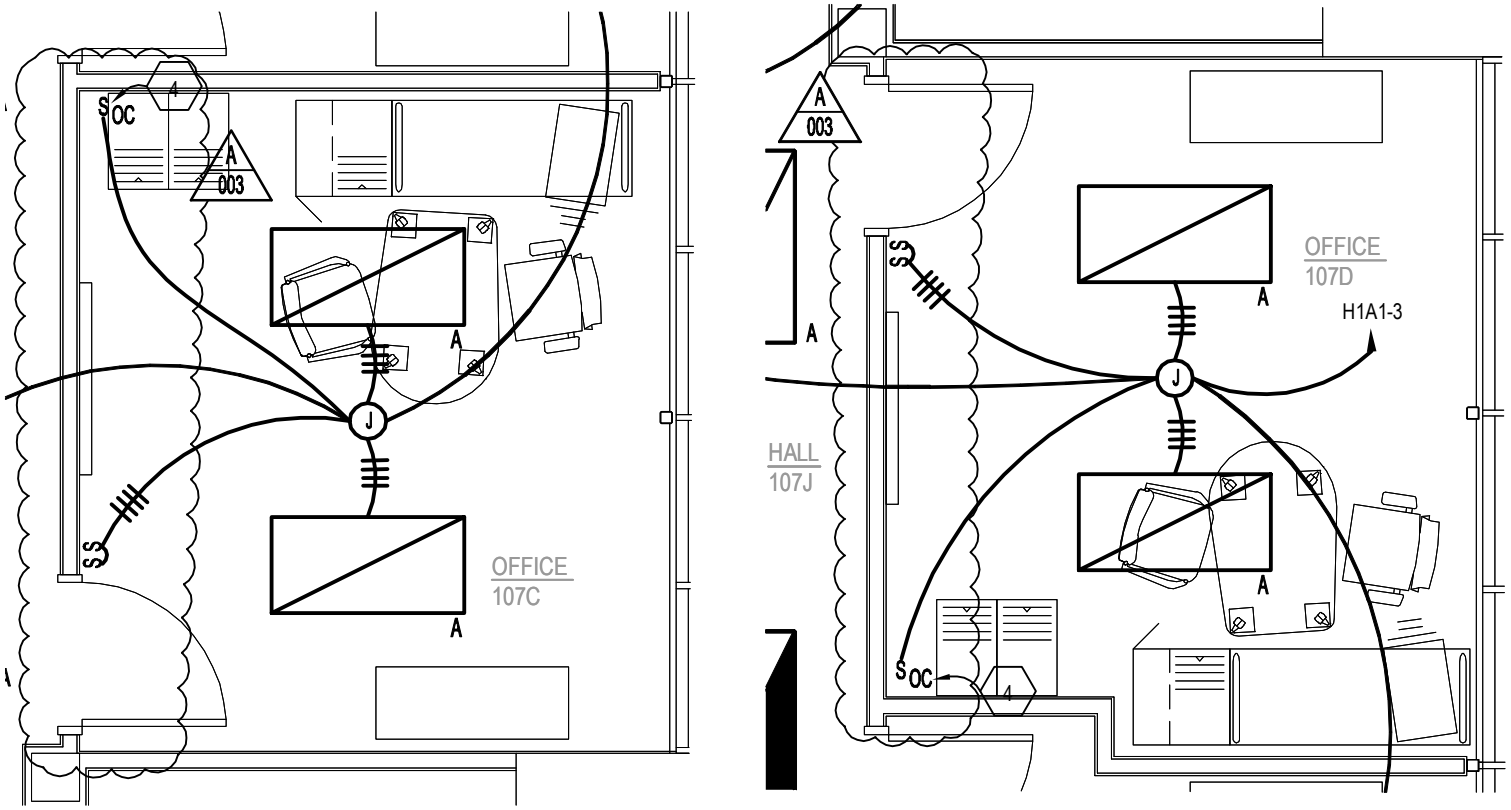
Kansas City, Missouri
Overland Park, Kansas

Wayne State College
Carhart Building Phase III
Wayne, NE
TCEP No.: 645-017-11

Addendum #03
Supplemental Drawing: SDA-013
Revision of Detail: 27/A6.1
Date: April 13, 2012



FIRST FLOOR LIGHTING PLAN - AREA B

SCALE: 1/4"=1'-0"

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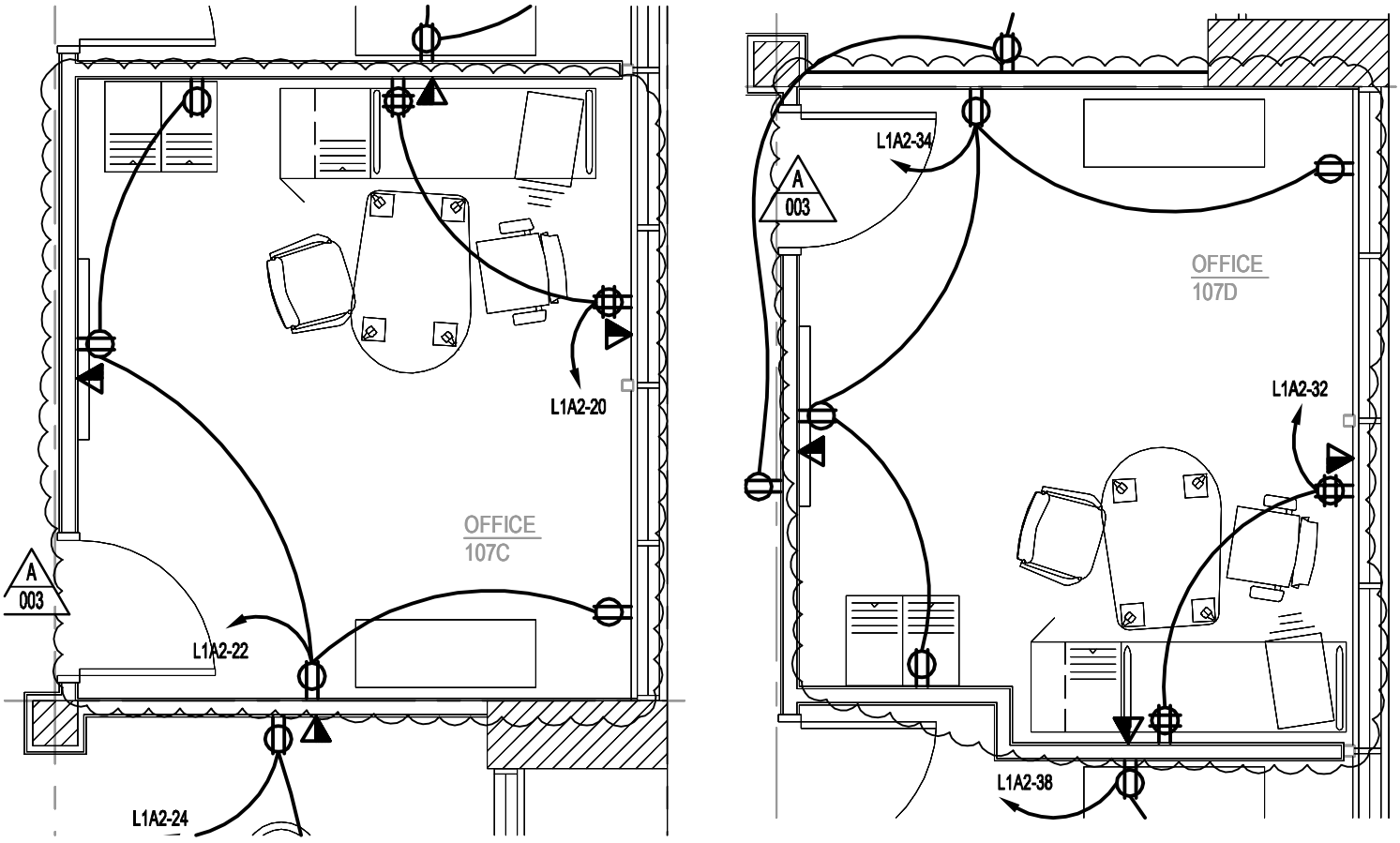
Kansas City, MO Overland Park, KS www.clarkenersen.com

Wayne State College Carhart Building Phase III
Wayne, NE
TCEP Project No.: 645-017-11

Addendum #3
Supplemental Drawing: SDE002
Revision of Sheet: E2.4
Date: April 13, 2012



FIRST FLOOR POWER & AUXILIARY SYSTEMS PLAN - AREA B

SCALE: 1/4"=1'-0"

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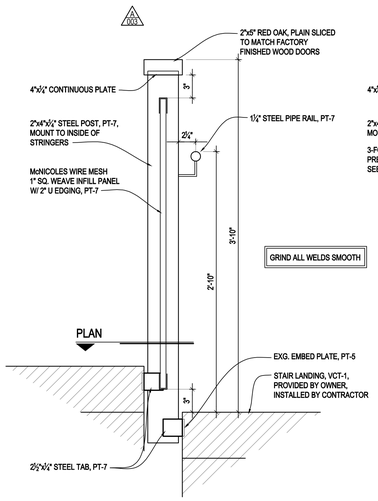
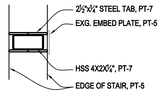
Wayne State College Carhart Building Phase III
Wayne, NE
TCEP Project No.: 645-017-11

Addendum #3
Supplemental Drawing: SDE003
Revision of Sheet: E2.4
Date: April 13, 2012



SECTION



PLAN

1 DETAIL @ STAIR ALTERNATE

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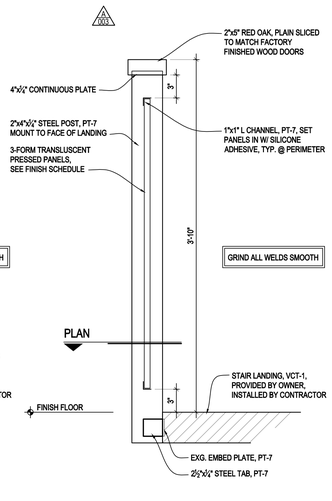

SECTION

PLAN

2 DETAIL @ LANDING ALTERNATE

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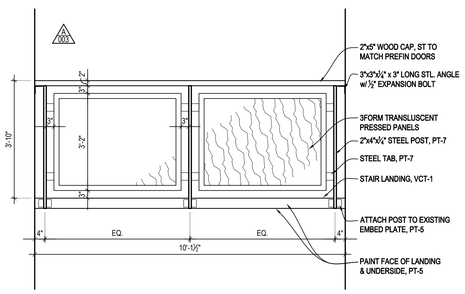
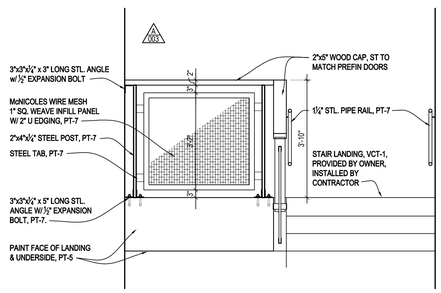


3 STAIR LANDING ALTERNATE

SCALE: 1/2"=1'-0"

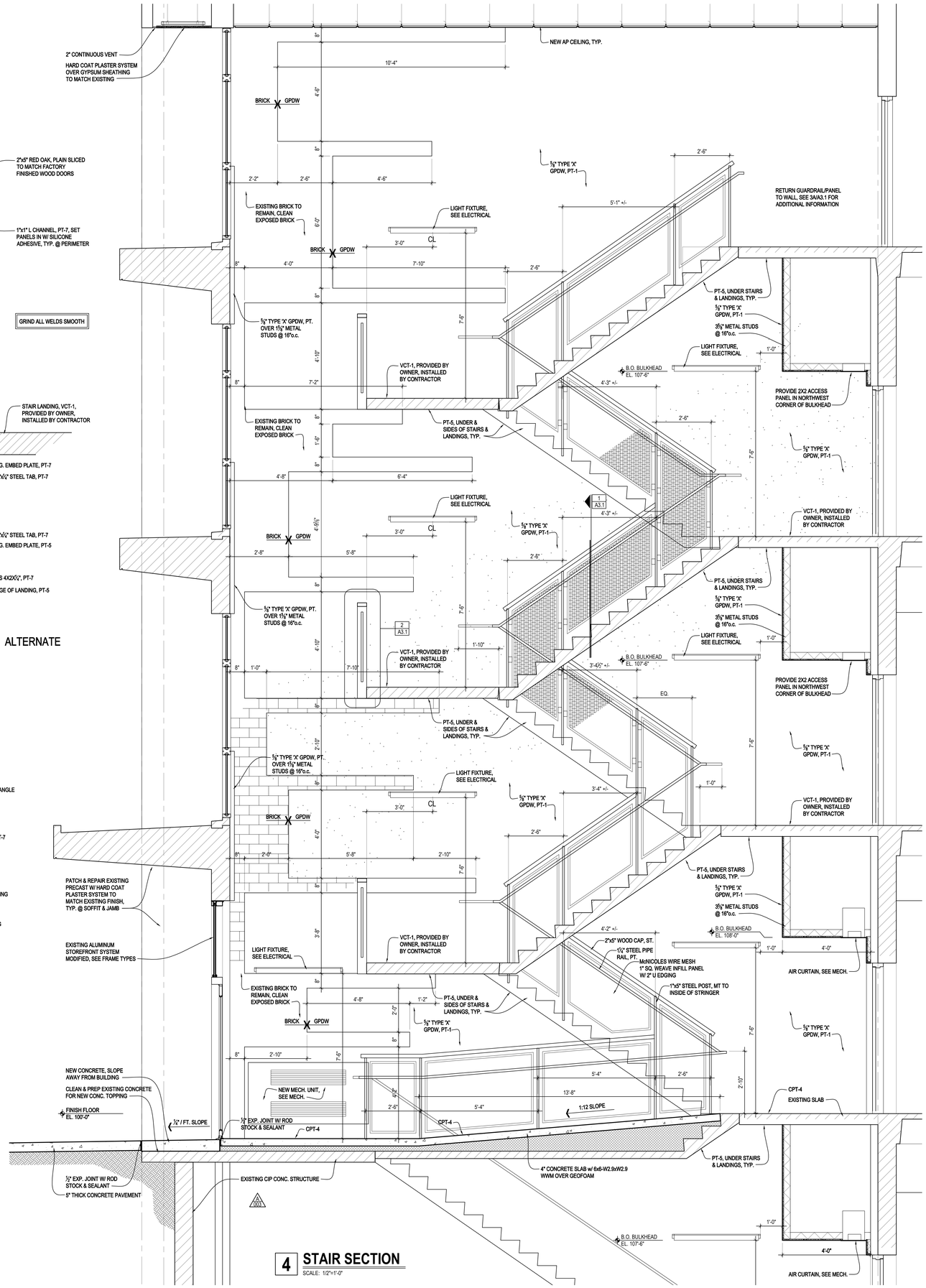
@ 1ST, 2ND & 3RD LEVEL



3A STAIR LANDING ALTERNATE

SCALE: 1/2"=1'-0"

@ PENTHOUSE LEVEL



4 STAIR SECTION

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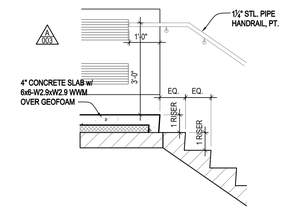

5 BASE BID - STAIR SECTION

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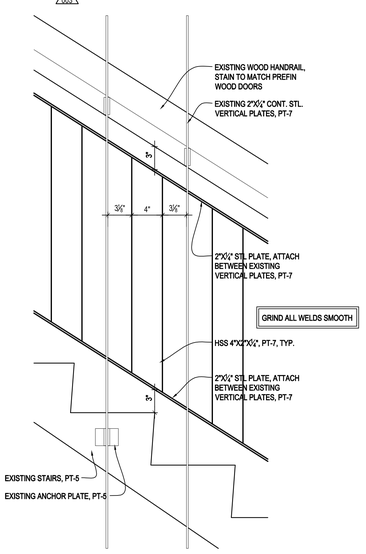
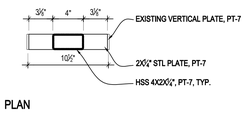


ELEVATION

TYPCIAL @ STAIRS & LANDINGS



PLAN

6 BASE BID - STAIR DETAIL

SCALE: 1 1/2"=1'-0"

BASE BID

1. REMOVE EXISTING RAMP, RAMP HANDRAILS AND CONNECTIONS. RELOCATE EXISTING MODIFIED ALUMINUM STOREFRONT. RECONSTRUCT NEW RAMP PER DRAWINGS. ADD NEW HANDRAILS TO MATCH EXISTING. ADD NEW GPDW BULKHEADS OVER CORRIDOR DOORS. ADD GPDW TO EAST WALL OVER MAPES PANELS AND CONCRETE WALL. MODIFY EXISTING VERTICAL PLATES THROUGHOUT ENTIRE STAIR BY ADDING TUBES BETWEEN RAILS. SEE DETAIL 4 & 5/A3.1 FOR RAMP INFORMATION. SEE DETAIL 6/A3.1 FOR MODIFICATION OF VERTICAL PLATES..

ALTERNATE

1. REMOVE EXISTING HANDRAIL, VERTICAL PLATES AND CONNECTIONS THROUGHOUT ENTIRE STAIR. REPLACE WITH NEW HANDRAILS, GUARDRAILS, INFILL PANELS. ADD GPDW TO NORTH AND SOUTH WALLS. REFER TO DETAIL 1, 2, 3, 4/A3.1 FOR ADDITIONAL INFORMATION.

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CONSTRUCTION MANAGER

A / # / 7 - #

SHEET HISTORY:

A - 003 04/13/2012 AS PER ADDENDUM #003
REISSUE SHEET IN ITS ENTIRETY

Wayne State College
Carhart Building
Phase III
1st/Ground/Basement

Wayne, NE

TCEP No.: 645-017-11

March 26, 2012

Misc. Details
Partial Stair Section

A3.1