

PROJECT: THE HAGEDORN AVIATION COMPLEX

OWNER: EMBRY RIDDLE AERONAUTICAL UNIVERSITY
600 S. Clyde Morris Blvd.
Daytona Beach, Florida 32114

ARCHITECT: HAWKINS, HALL, & OGLE ARCHITECTS, INC.
208 Magnolia Avenue
Daytona Beach, Florida 32114
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ADDENDUM NUMBER 3 DATED 14 January 2010

This addendum is part of the Contract Documents and modifies the Project Plans and Specifications as follows:

A3.1 GENERAL CLARIFICATIONS:

1. For the purposes of this bid, all bidders should assume that the site is "balanced" for the Phase IB portion of the work.
2. The finish for the aluminum sunshades shall be powder coat with lifetime warranty, color to be as selected by the architect from manufacturer's standard range.
3. Only the masonry partitions with a partition type symbol 14 indicated are to receive furring and gyp. bd. All others are exposed/painted CMU.
4. Civil sheets C-2 & C-3 refer to an electrical demolition plan that does not exist. The existing lights that are referenced will need to remain in place as long as construction will allow to provide lighting for the existing ramp area. Sheet E.2 indicates the new light fixtures to be installed under this contract, at which time the existing light fixtures will be demolished.
5. G.C. to include building permit fees only as a part of the bid. Any site/impact/tap fees, if applicable will be paid by ERAU.

A3.2 SPECIFICATIONS: SECTION 02821 – CHAINLINK FENCING AND GATES

Page 2, Part 2 Products, 2.01 Steel Fencing, paragraph G: intermediate line posts to be 2-1/2" per drawings, paragraph H: End, corner, pull posts to be 6-1/2" per drawings.

A3.3 SPECIFICATIONS: SECTION 04816 – MASONRY VENEER

Page 2, Part 2 Products, 2.01.A Manufacturers, add Taylor Brick as an acceptable manufacturer.

A3.4 SPECIFICATIONS: SECTION 07279 – FLUID-APPLIED WEATHER RESISTANT BARRIERS

Page 2, Part 2 Products, 2.01.B Other Acceptable Manufacturers, add Henry Air-Bloc 31 as an acceptable product.

- A3.5 SPECIFICATIONS: SECTION 07415 – ALUMINUM COMPOSITE MATERIAL (ACM) WALL SYSTEM
Page 2, Part 1 General, 1.06 Quality Assurance, revise paragraph C and add paragraph D as follows:
- C. Panel supplier shall furnish calculations confirming structural adequacy and compliance with section 1407 and Chapter 16 of the Florida Building Code 2007.
- D. Provide Florida Product Approval number per FAC 9B-72.
- A3.6 SPECIFICATIONS: SECTION 07550 – MODIFIED BITUMEN MEMBRANE ROOFING
Page 4, Part 1 General, 1.08.B Agency Approvals, paragraph 2 should read as follows:
2. Factory Mutual Approval Standard 4470 listing for the proposed roof system. The roof system shall be approved by FM for Class 1-SH (severe hail) exposure. The entire roof system (including lightweight insulating concrete, fastening of base sheet or insulation, membrane, & paver system where applicable) shall be approved by FM for minimum 1-150 windstorm construction.
- A3.7 SPECIFICATIONS: SECTION 09260 – GYPSUM BOARD ASSEMBLIES
Page 3, Part 2 Products, Revise 2.01.E to read as follows:
Partition Head to Structure Connections: Provide slip track fastened to structure with legs of sufficient length to accommodate +/- 1" deflection, for friction fit of studs cut short and fastened per industry standards.
- A3.8 SPECIFICATIONS: SECTION 09685 – CARPET TILE
Replace page 2 with that attached.
- A3.9 SPECIFICATIONS: SECTION 09900 – PAINTING
Page 4, Part 2 Products, 2.04 Interior Paint Systems (IPS), revise paragraph A. IPS 1: Concrete and Concrete Block, 1. First Coat to read as follows:
43-11 Masonry Sealer Pigmented.
- A3.10 SPECIFICATIONS: SECTION 12512 – VERTICAL LOUVER BLINDS
Vertical Louver Blinds are to be provided at the windows in the following spaces:
- Flight Operations Building: 117F, 117G, 117H, 117I, 117J, 117K, 117L, 117M, 207, 207B, 207C, 213, 214A, 214B, 215
- AMS Laboratory Building: 209, 210, 211, 212, 213, 214, 215, 216, 217, 219
- Flight Maintenance Hangar: 110, 111, 112, 114
- A3.11 DRAWINGS: SHEET A1.5
Refer to attached sketches SK-A1.5-1 & SK-A1.5-2 for additional information regarding the architectural aluminum fencing.

A3.12 DRAWINGS: SHEET A1.6

Refer to attached sketches SK-A1.6-1, SK-A1.6-2, SK-A1.6-3 & SK-A1.6-4 for additional information and miscellaneous revisions to the architectural aluminum fencing and security gate.

A3.13 DRAWINGS: SHEET A2.5

The lockers indicated in Uniform Storage 210 are NIC and will be provided by ERAU.

A3.14 DRAWINGS: SHEETS A2.13, A2.14, A2.15, & A2.16

Clarification: All of the miscellaneous equipment shown "ghosted" on the AMS Lab plans is NIC and will be provided by the owner.

A3.15 DRAWINGS: SHEET A2.14

The walk-in freezer indicated in Clean Room 115A is part of this contract and shall be as follows:

General: Walk-in Freezer shall be constructed of prefabricated, foamed in place modular panels. All panels are to be metal clad construction and precision formed to allow for accurate field assembly. It will be constructed in such a way to allow for disassembly and relocation. Walk-in is to be N.S.F. approved and UL listed.

Freezer: Model No. PR 304L, 3 HP, 208/6-/3. Compressor – 17.2 Amps, Evaporator & Heater – 21.8 Amps (208/60/1, Door, Lights & Door Heater – 5.0 Amps

Equipment Contractor shall provide all installation required for walk-in Freezer, including refrigeration and excepting electrical.

Electrical Coordination: Electrical service and connection to condensing units, unit coolers, interior lights, time clock, condensate heater, door heaters and control wiring shall be provided under Division 16-Electrical.

Warranty: All refrigeration systems must carry a five year warranty from the date of substantial completion on the motor compressor and a one year warranty on all other parts and labor. All panels to be warranted for ten years.

After total installation of walk-in and refrigeration systems are completed, the following eleven point startup is to be performed by a trained technician and authorized service agency at no additional charge.

1. Check supply/line voltage.
2. Check/loosen compressor mounts.
3. Check electrical connections.
4. Perform operational check (using gauges).
5. Leak check.
6. Check/adjust temperature and/or pressure control.
7. Check/adjust time clock.
8. Check door alignment--adjust gasket, door drag, hinges, etc.
9. Check/adjust lines for rattles and rub points.
10. Check/calibrate thermometer.
11. Report to the dealer and Kolpak refrigeration service department any damage to the unit, faulty installation of the unit, or other installation operating conditions.

A3.16 DRAWINGS: SHEET A5.0.1

At detail 6/A5.0.1, keynote 7.4 at the material over the metal studs behind the brick veneer is in error. The keynote should read 7.12, ½" exterior wall sheathing. This is a typical comment for any detail/section for similar conditions. There is no rigid polystyrene insulation behind the brick veneer where metal studs are the backup material.

A3.17 DRAWINGS: SHEET A7.1

At the Catering Kitchen 308, omit the reference to ceramic tile on the walls, it should read paint on gyp. wall bd. for all walls in that space.

A3.18 DRAWINGS: SHEET A7.2

At the Men's and Women's rooms 105 & 106, omit the reference to painted walls. All walls in those rooms are to be ceramic tile.

A3.19 DRAWINGS: SHEET A9.3

Refer to attached sketches SK-A9.3-1, SK-A9.3-2, & SK-A9.3-3 for miscellaneous revisions related to the tambour door at the clip board storage cabinet.

A3.20 MISCELLANEOUS MECHANICAL QUESTIONS

1. Problem: Specification 15211 (Limited-Service Compressed-Air Piping) and 15212 (General Service Compressed-Air Piping Systems)

Question: Which specification applies to this project?

Answer: SECTION 15212 - GENERAL-SERVICE COMPRESSED-AIR PIPING SYSTEMS specifies the bulk of the compressed air piping system. Equipment, hardware, and assemblies not available from the manufacturer(s) referenced in this section can be furnished from other source referenced in Section 15211.

15212.1.2.B states:

1. Division 15 Section 15211 "Limited-Service Compressed-Air Piping" for limited-service piping and accessories not available from the manufacturer of the System.
 - a. Refer to Division 15 Section 15211 "Limited-Service Compressed-Air Piping" for piping, fittings, and specialties not available in the factory-fabricated compressed air piping system.
2. Problem: Specification 15211, section 4.1-A-3 reads "ALL HVAC CONTROLS to be compatible with existing campus controls. Contact FPDC" and specification 15900, section 2.1 reads "All products shall be compatible with Owner's existing products, assemblies, software, and systems".

Question: What does "FPDC" stand for and who is the existing controls manufacturer for this facility?

Answer: FPDC is ERAU's Facilities Planning, Design and Construction.

Johnson Controls Inc. is the approved controls installer on campus per 15900 - 1.6

Approved Control Systems:

- A. The following are approved control system suppliers, manufacturers, and product lines:
 1. Johnson Controls, Inc.
3. Please refer to specification section 15085. Paragraph 2.2A indicates, Standard Weight, black-steel pipe: ASTM A/53...

Question: What is the definition of, "Standard Weight"? Does standard weight include schedule 40 piping for threaded fittings? Does standard weight include schedule 10 piping for grooved fittings?

Answer: Standard weight is schedule 40 up to NPS 10. NPS 12 and larger standard weight becomes the schedule with a wall thickness of 0.375-inches. Schedule 10 piping is not standard weight for the pipe sizes on this project.

Additional Mechanical Manufacturer's:

Add JencoFan to the list of manufacturers in the following paragraphs:

2.1.A: CENTRIFUGAL ROOF VENTILATORS

2.2.A: UPBLAST PROPELLER ROOF EXHAUST FANS

2.3.A: CENTRIFUGAL WALL VENTILATORS

2.4.A: CEILING MOUNTED VENTILATORS

2.5.A: SQUARE IN LINE CENTRIFUGAL FANS

2.7.A: PROPELLER FANS

Add Soler & Palau to the list of manufacturers in the following paragraph:

2.6.A: ROUND IN-LINE CENTRIFUGAL FANS

Add Impulse Air, Inc. to the list of manufacturers in the following paragraphs:

2.3.A.1: SINGLE WALL ROUND DUCTS AND FITTINGS

2.4.A: DOUBLE WALL ROUND DUCTS AND FITTINGS

ELECTRICAL ITEMS

Clarifications

1. Schedule 40 PVC may be used in slabs on grade or under slabs on grade without being encased in concrete for branch circuits and equipment feeders.
2. Panel 2P21 is to be flush-mounted in room 220 of the AMS Lab.
3. Panel 3P32 is to be located in room 308 (maintain clearances per NEC 110). The panel was also shown in custodian's room and will be deleted from that location.
4. Sheet E.2, note 6: run specified 50 pair cable in 4" conduit, and provide one 4" spare conduit.
5. Sheet E.2, note 10(B): Conduit to be 4 inch.
6. Sheet E.2: conduits shown in the existing AMS Hangar are new conduit runs to be installed under this contract.

7. Sheet E.2, note #1, clarification: Primaries, easements and site distribution is in place. FPL pad mount transformers will be in place before construction begins, temporary panels for construction use are in place as well.
8. On Sheet E20, the fixtures in the fire pump room to be type D. The 4' fixture shown as type V to be a type W. ALL WIRING AND DEVICES SHOWN IN 111F AND G TO BE CLASS I DIV I GROUP D
9. On sheet E26, ALL WIRING IN HAZARDOUS ROOMS TO BE CLASS 1 DIV 1 GROUP D.
10. Provide motion detectors shown in Women's Room 106 and 306 of the AMS lab. Other bathrooms have them.
11. The light fixture shown at the BA fan in the hangar is this an existing fixture mounted to the fan. Contractor to remove fan and light kit from existing structure and re-hang/connect 480 volt fan motor and 277 volt light. Support for 750lb live load,

END OF ADDENDUM NO. 3

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Milliken, Masland, Mannington and Tandus.
- B. Substitutions - Subject to approval of ERAU Facilities Department

2.02 MATERIALS

- A. Carpet Tile: Tufted, manufactured in one color dye lot.
 - 1. Carpet tiles – Meets Appearance Retention Rating CRI TM101. Heavy rating in offices and conference areas, and Severe rating in classrooms and other common areas.
 - 2. Lifetime Warranty
 - 3. Adhesive & PVC Free
 - 4. Color: As selected.
 - 5. Pattern: As selected.
 - 6. Face Fiber: Invista type 6.6, hollow filament
 - 7. Standard Backing: Cushion back

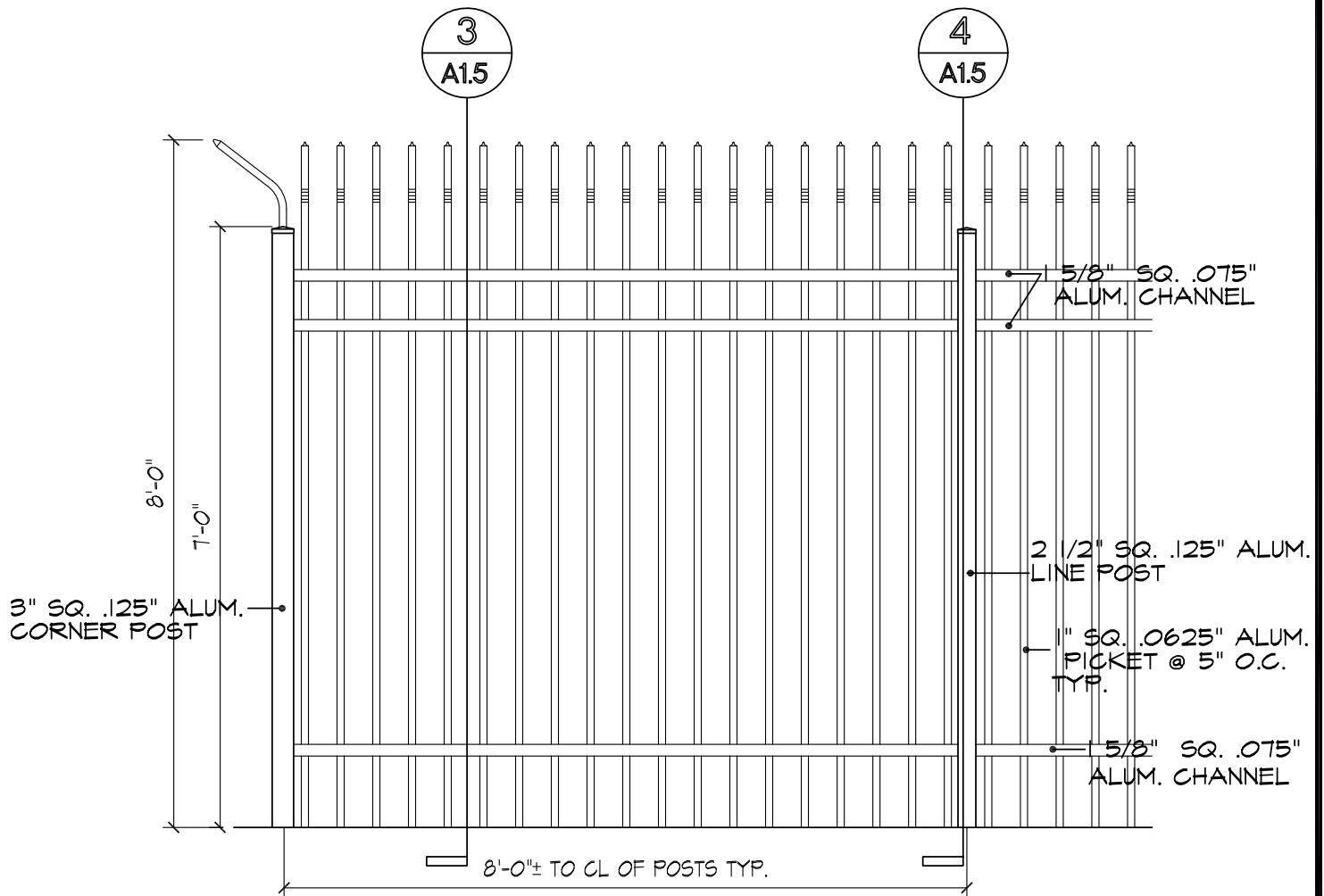
2.03 ACCESSORIES

- A. Adhesives: Acceptable to carpet tile manufacturer, compatible with materials being adhered; maximum VOC of 50 g/L; CRI Green Label certified; in lieu of labeled product, independent test report showing compliance is acceptable.

PART 3 EXECUTION

3.01 PREPARATION

- A. Bead blast and acid wash floors as required per manufacturer's directions.
- B. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler.
- C. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.
- D. Vacuum clean substrate.



1 ELEVATION - ARCH. ALUMINUM FENCE *SC: 1/2" = 1'-0"*
A1.5

NOTES:

1. FENCE SYSTEM TO BE EQUAL TO IDEAL ALUMINUM PRODUCTS (386)736-1700
2. SYSTEM TO BE FULLY WELDED
3. PROVIDE POWDER COAT FINISH W/ LIFETIME WARRANTY.

REFERENCE SHEET A1.5

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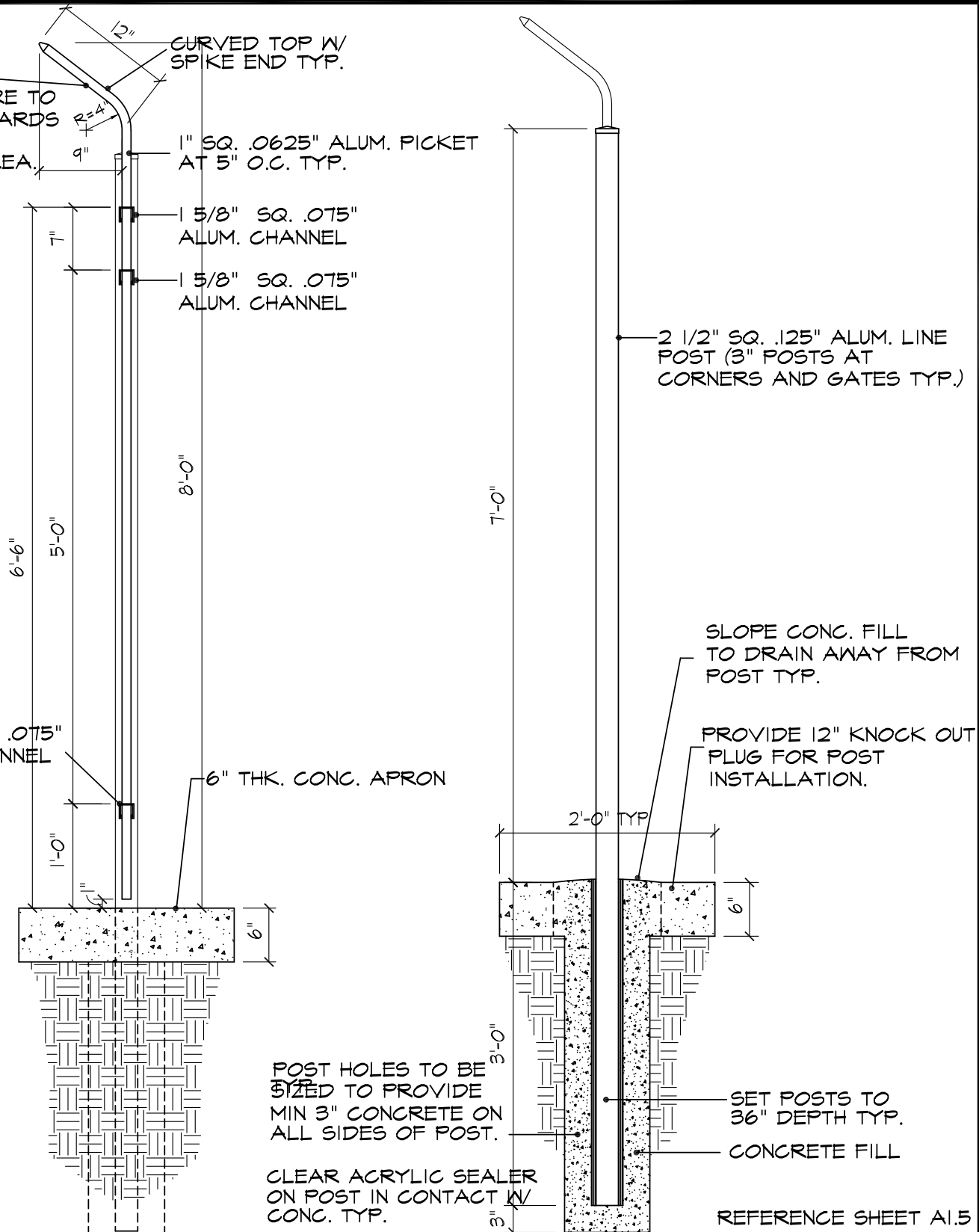
ADDENDUM NO. AD-3

COMM. NO. 0802

DATE 14-JAN-2010

SHEET SK-A1.5-1

NOTE:
PICKETS ARE TO
CURVE TOWARDS
"INSIDE" OF
ACCESS AREA.



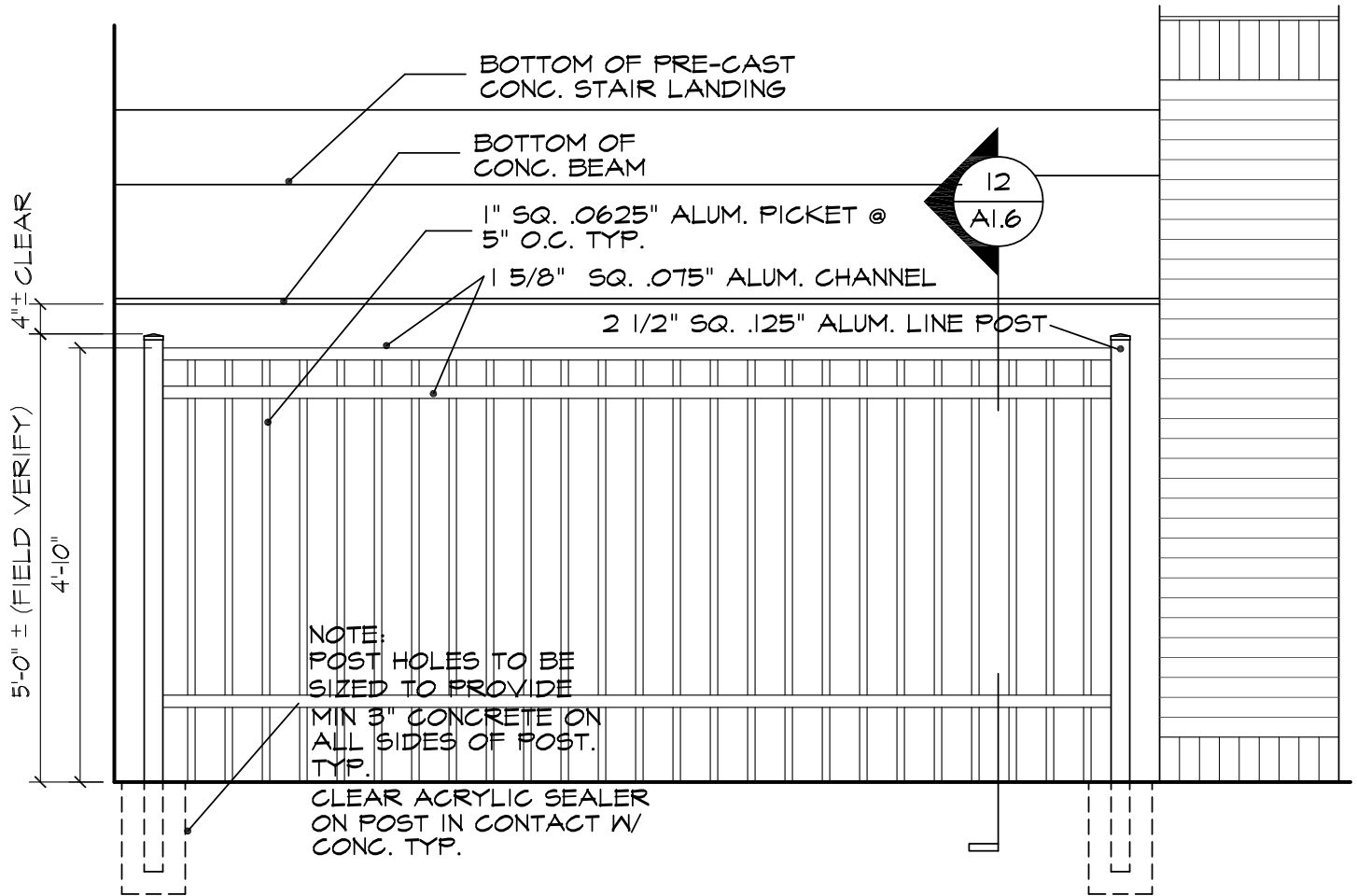
3 SECTION SC: 3/4" = 1'-0"
A1.5 ARCH. ALUM. FENCE

4 SECTION SC: 3/4" = 1'-0"
A1.5 ARCH. ALUM. FENCE

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ADDENDUM NO. AD-3
COMM. NO. 0802
DATE 14-JAN-2010
SHEET SK-A1.5-2



8
A1.6

ALUMINUM ARCH. FENCE ELEVATION
AT EXTERIOR STAIR - AMS BLDG.

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

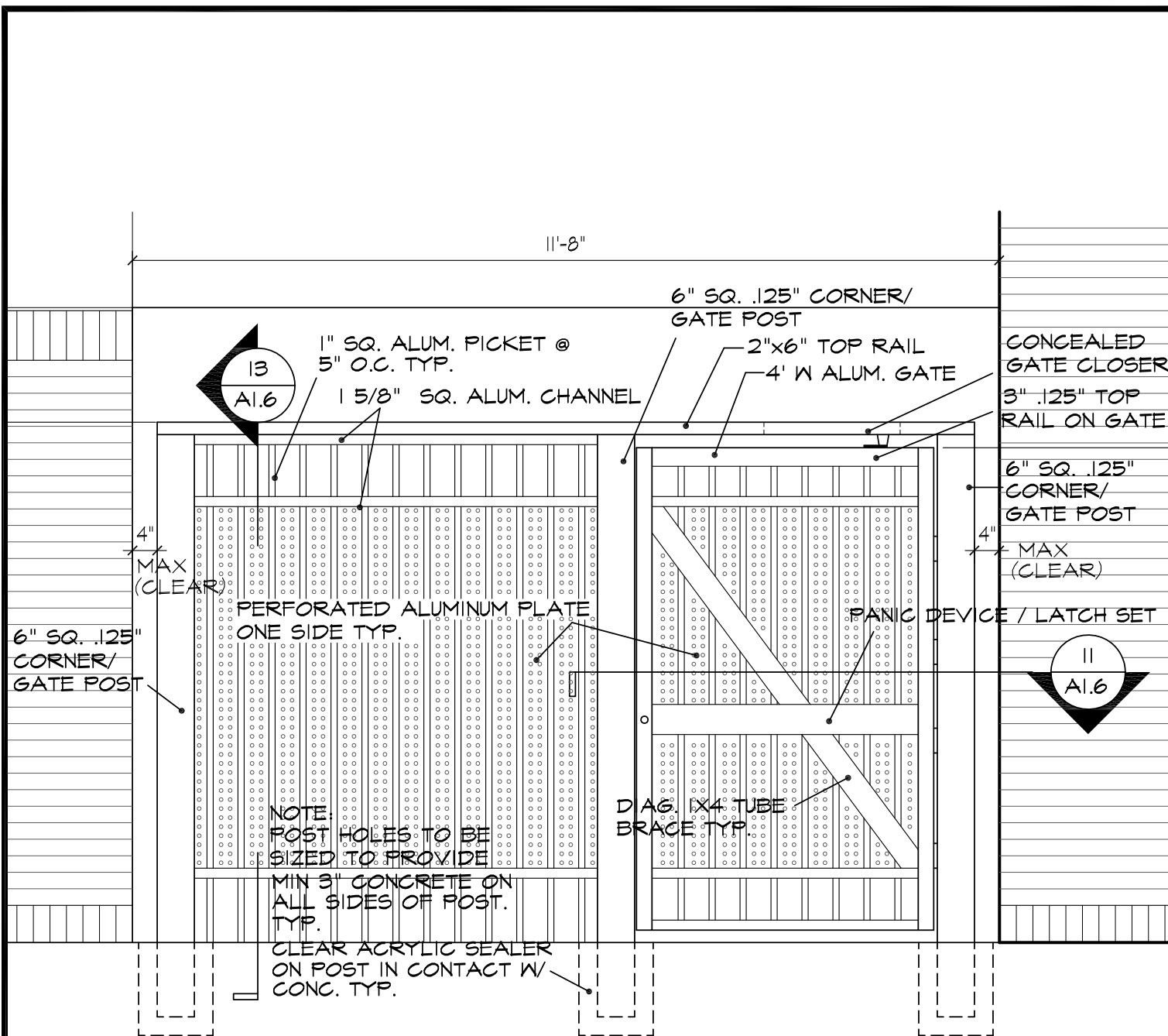
REFERENCE SH. A1.4

REFERENCE SHEET A1.6

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SHEET SK-A1.6-1



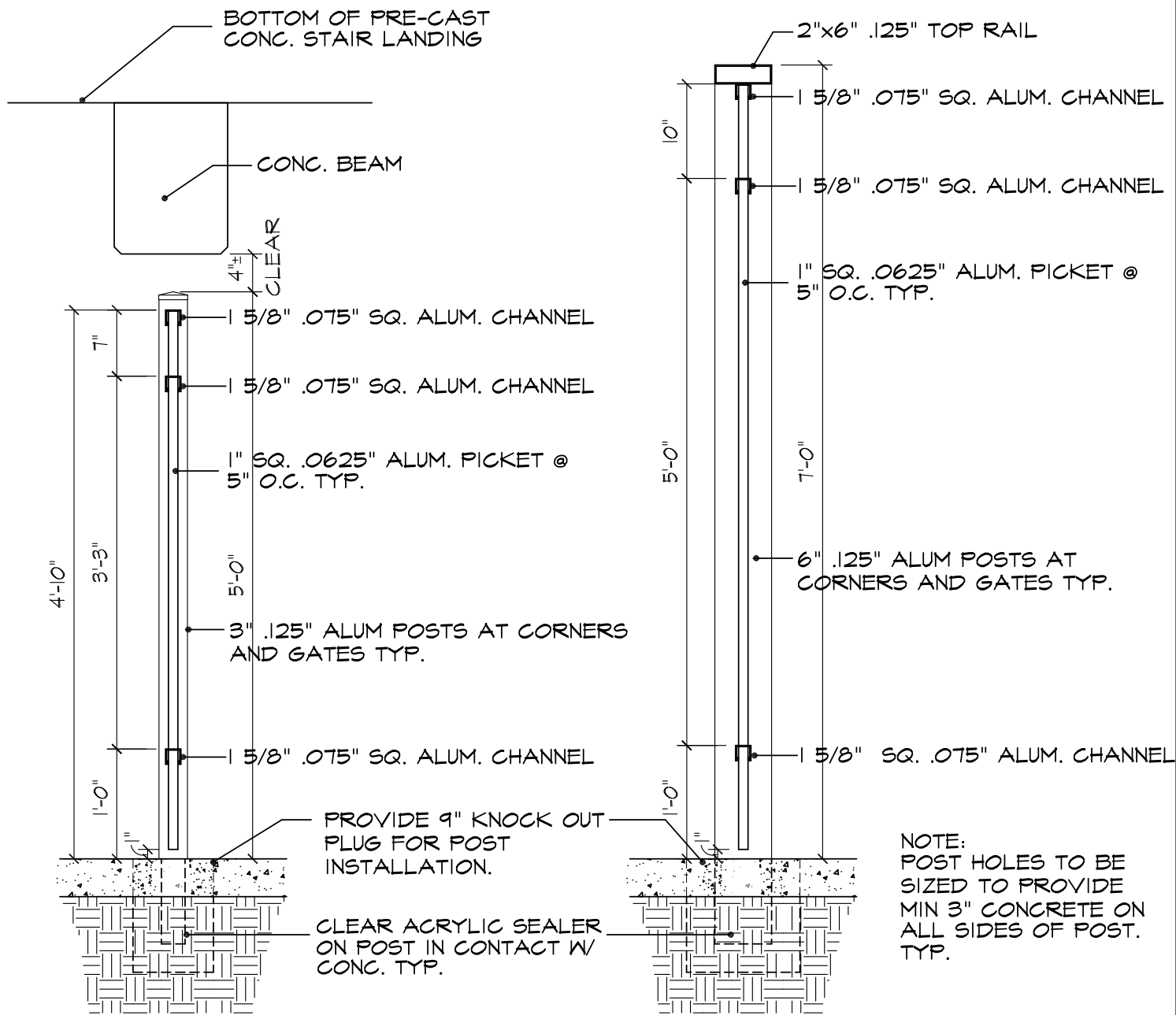
9 ALUMINUM ARCH. FENCE AND GATE ELEVATION
A1.6 AT EXTERIOR STAIR - AMS BLDG. SC: 1/2" = 1'-0"

REFERENCE SHEET A1.6

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 SHEET SK-A1.6-2



12 SECTION SC: 3/4" = 1'-0"
A1.6 AT EXTERIOR STAIR - AMS BLDG.

13 SECTION SC: 3/4" = 1'-0"
A1.6 AT EXTERIOR STAIR - AMS BLDG.

REFERENCE SHEET A1.6

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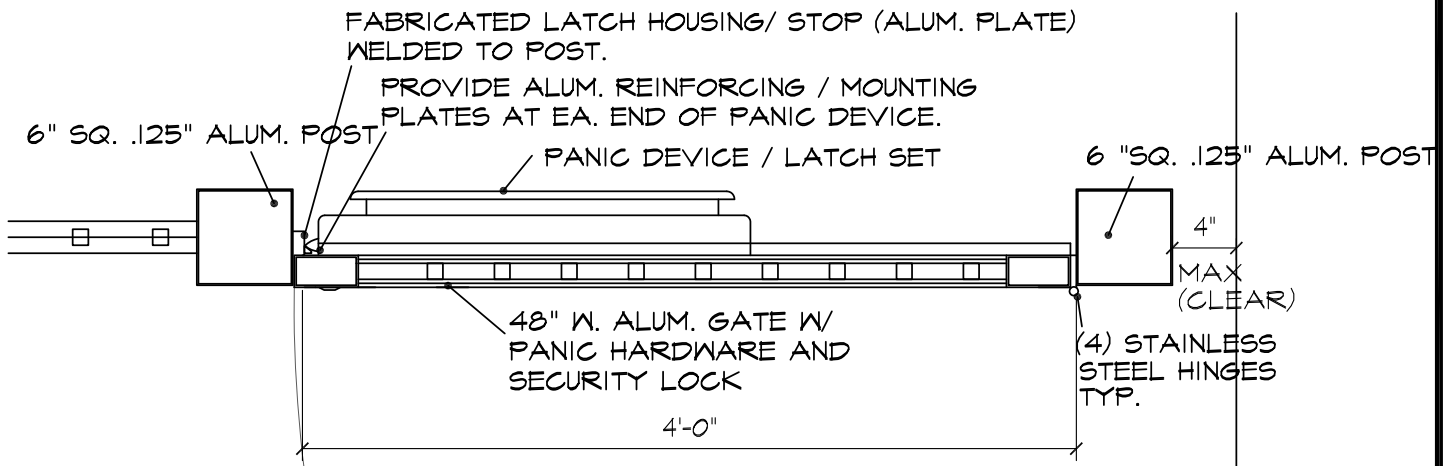
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ADDENDUM NO. AD-3

COMM. NO. 0802

DATE 14-JAN-2010

SHEET SK-A1.6-3



11
A1.6

GATE DETAIL
AT EXTERIOR STAIR - AMS BLDG.

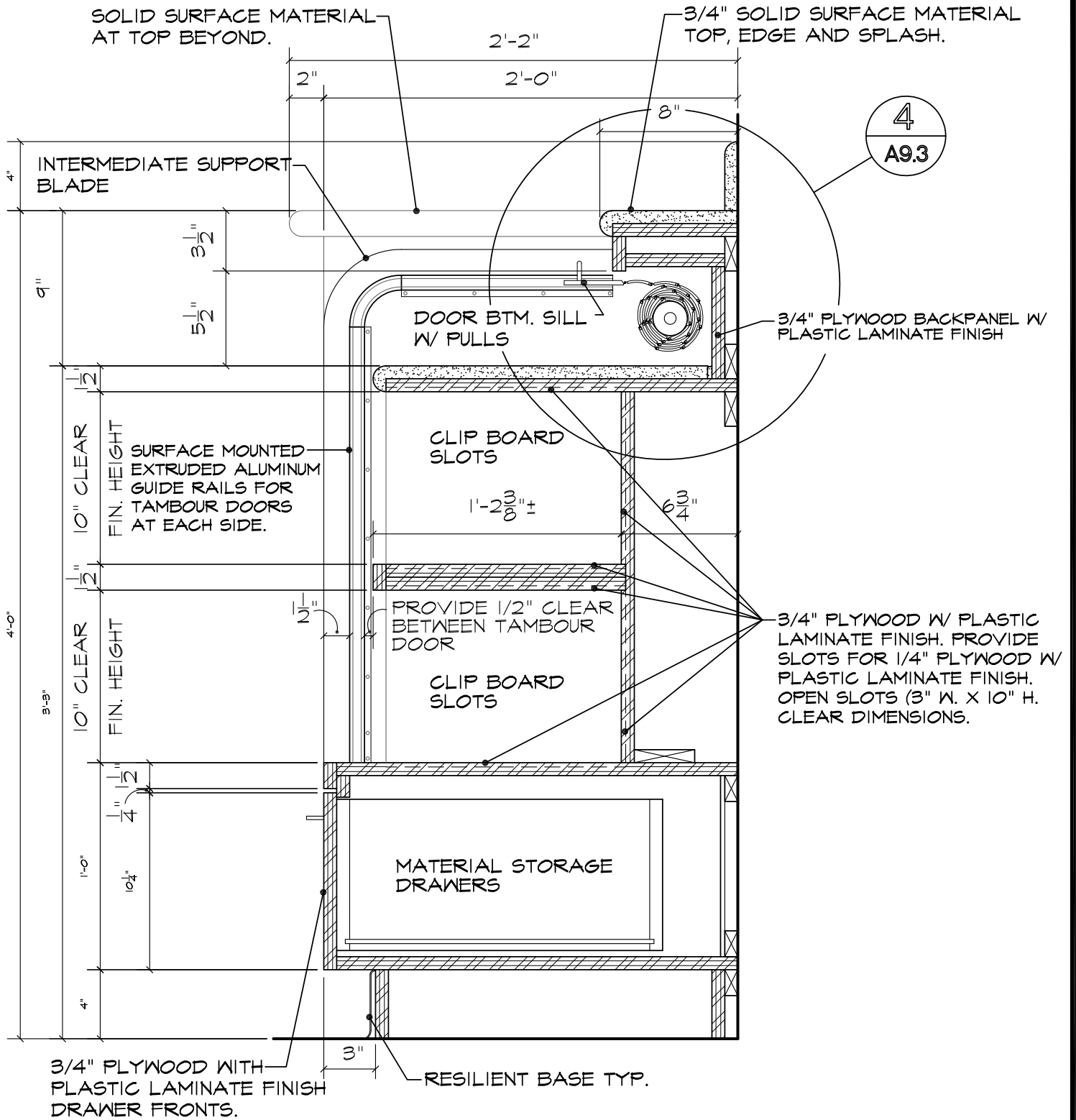
SC: 1" = 1'-0"

REFERENCE SHEET A1.6

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SHEET SK-A1.6-4



3 SECTION
A9.3 AT TAMBOUR DOOR

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

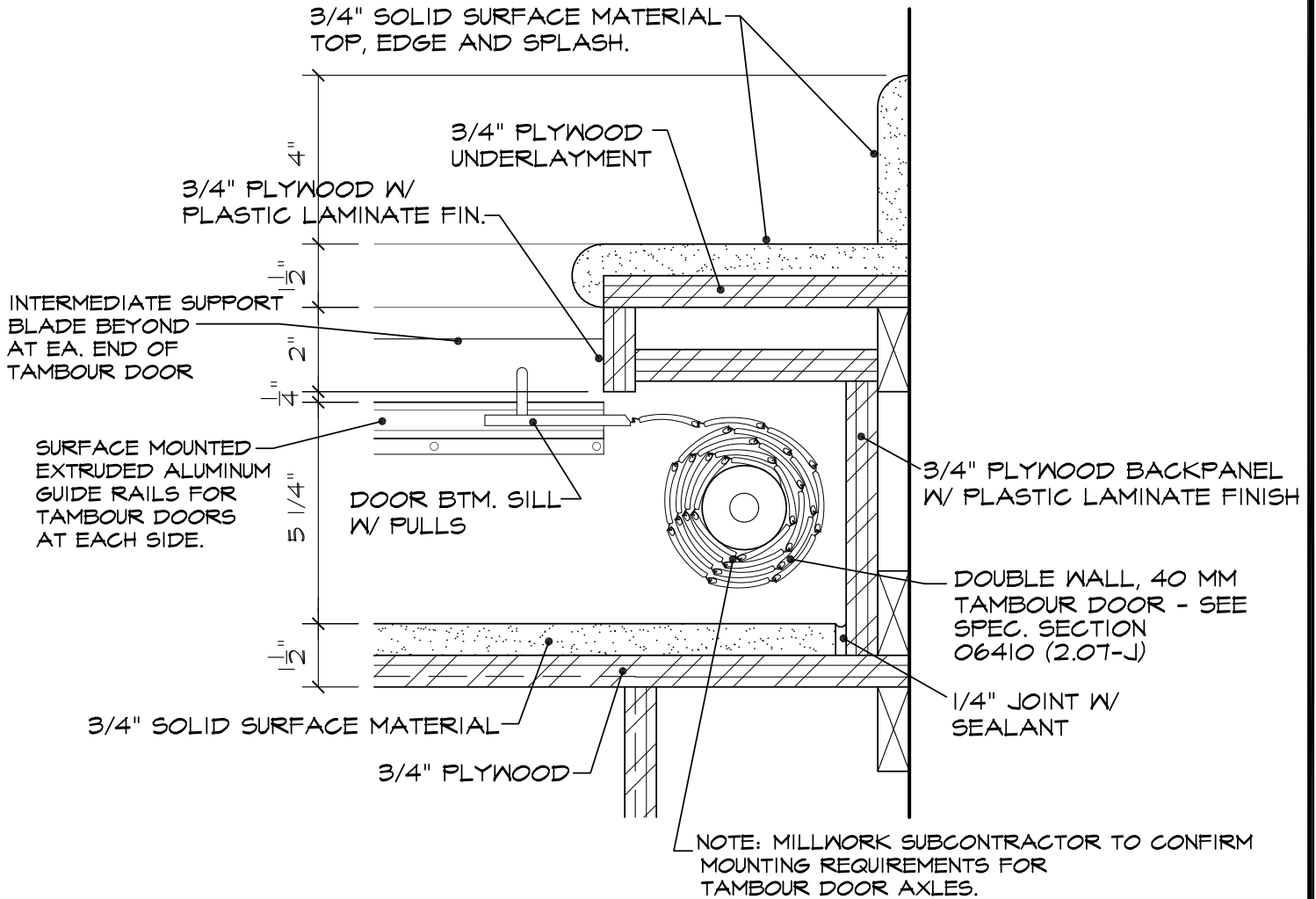
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 SHEET SK-A9.3-1



4 SECTION
A9.3 AT TAMBOUR DOOR / HOUSING

SC: 3" = 1'-0"

REFERENCE SH. A9.3

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SHEET SK-A9.3-2

