SECTION 08410 – ALUMINUM ENTRANCES, STOREFRONT & WINDOW FRAMING

Scope:

1. Provide aluminum entrances and glazing:
   a. Front exterior entry doors and frames.
   b. Vestibule entry doors and frames matching front exterior entrance doors.
   c. Side corridor and entry doors and frames matching front exterior entrance doors.
   d. Preformed flashings as indicated on the drawings.

Product:

1. Door Type:
   a. See drawing
2. Glazing
   a. see energy report
3. Hardware: hinges, concealed closers, stops, keyed cylinders, push/pull, panic hardware with pulls (all exterior doors) as per manufacturer's standard line. Satin chrome finish.
4. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.

Installation:

1. Comply with Drawings and manufacturer's written instructions for installing aluminum framed storefront system, accessories, and other components.
2. Anchor securely in place, install plumb, level and in true alignment. Isolate dissimilar metals to prevent corrosion.
3. Coordinate with glass and glazing work, install hardware and adjust for smooth, proper operation.

SECTION 08800 – GLASS AND GLAZING

Scope:

1. Provide glass and glazing for all applications, including sidelights, glazed openings in walls and mirrors.
2. Glass Schedule:
   a. At interior partitions: ¼ inch thick tempered glass.

Products:

1. Glazing sheets:
   a. Heat treated glass products. ASTM CI048: Tempered glass
   b. Mirrors, silvering, copper coating, protective organic coating
2. Glazing materials:
   a. Acrylic glazing sealant, Tremco Mono.
   b. Preformed glazing tape, Tremco Polyshim Tape.
   c. Setting blocks, shims and spacers.

Installation

1. Comply with FGMA Glazing Manual and manufacturer's instructions and recommendations.
2. Set mirrors directly to wall adhere to wall with adhesive – Mirror mastic or approved equal or as required for use by child care licensing.

Section 092400
Portland Cement Plastering (Stucco)

PART 1 – **GENERAL**

1.10 **SUMMARY**

A. Specification provides requirements for the applications of a Stucco System, including general information,
pertaining to the design, materials and application of Stucco.

1.20 **ENVIRONMENTAL CONDITIONS**

A. Cold Weather Conditions:

1. Do not apply cement plaster when ambient temperature is less than 35°F (2°C).
2. Do not apply cement plaster to any frozen surfaces or surfaces containing frost. Protect plaster coats against freezing for a period of 24 hours after application.
3. Do not use frozen materials.
4. Tenting, heat and ventilation must be provided if cement plastering is done in a temperature below 35°F (2°C).

B. Warm Weather Conditions:

1. Protect the basecoats and finish coat of cement plaster from uneven and excessive evaporation in warm, windy weather. (Refer to section on curing in PART III)
2. Moist curing of cement based plaster is required.

PART 2 – **PRODUCTS**

2.10 **MOISTURE BARRIER**

A. Water-resistant paper – Federal Specification UU-l-790a, grade D/30-minute or 60-minute.

2.15 **WINDOW HEAD, DOOR, LOUVER AND/OR OTHER PENETRATION-PLUS WALL OPENING**
PAN-TYPE FLASHING – 26-GAUGE GALVANIZED SHEET METAL, OR PVC PLASTIC

2.20 **RUNNER- AND CROSS-FURRING CHANNELS**

Cold-rolled galvanized steel channels, 1 1/2 inch (38 mm) and 3/4 inch (19 mm), a minimum of 33,000 psi yield strength and a minimum of 0.0538-inch bare steel thickness, ASTM A526.

Suspended soffits/ceilings – 1 1/2-inch (38 mm) main runner, 3/4-inch (19 mm) cross furring.

2.25 **FURRING "HAT" CHANNELS**

Furring channel, galvanized 7/8-inch (22 mm), 20-gauge.

2.30 **MECHANICAL FASTENERS**

A. Non-corroding fasteners, depending on the type framing or substrate:

1. Wood Framing – minimum 11 gauge, 7/16 inch (11 mm) diameter head galvanized roofing nails with minimum 3/4 inch (19 mm) penetration into studs or minimum #8 Type S wafer head fully threaded corrosion resistant screws with minimum 3/4 inch (19 mm) penetration into studs. (Nails: FS FF-N-105; Screws: ASTM C646)
2. Steel Framing – minimum #8 Type S or S-12 wafer head fully threaded corrosion resistant screws with minimum 5/8 inch (10 mm) penetration into studs. (Screws: ASTM C646)
3. Concrete or Masonry – minimum #8 wafer head fully threaded corrosion resistant screws for masonry with minimum 1 inch (25 mm) penetration into substrate. (Screws: ASTM C646)
4. Wood framing with EPS board over OSB board or plywood sheathing- Wire lath shall be fastened with corrosion resistant nails or 1" wide crown staples which penetrate at least 1"
into the studs.

B. Tie Wire – 18 gauge galvanized and annealed low-carbon steel in compliance with ASTM A641 with Class 1 coating. (FS QQ-W-461g. AS)

2.40 **LATH**

A. Self-furring diamond-mesh metal lath galvanized, 2.5 or 3.5 lb per sq. yd. Shall comply with ASTM 847.

2.50 **TRIM ACCESSORIES**

- Trim Accessories shall be fabricated from galvanized steel, zinc (alloy), PVC or anodized aluminum.
- Depth (the grounds) of accessories depends on the required thickness of cement plaster basecoat, without the finish coat.
- Accessories of PVC plastic or zinc (alloy) are recommended if corrosion is a concern because of environmental conditions.

A. Steel accessories per ASTM C 841

B. PVC plastic accessories per ASTM D1784 & C1063

C. Aluminum accessories from extruded alloy 6063 T5

STUCCO MATERIALS

A. Factory proportione d, Portland cement based exterior stucco for use in scratch and brown coat stucco applications. Comply with the following:

1. Base Coat – Scratch and Brown Coat Stucco
2. Performance and Physical Properties at 73 degrees F (23 degrees C) and 50 percent relative humidity.
   a. Base Coat Stucco Scratch and Brown Coat (No. 1139.80)
      1. Compressive Strength, ASTM C109:
         900 psi (6.2 MPa) @ 7 days
         1200 psi (8.3 MPa) @ 28 days
      2. Compliance, ASTM C 926
   b. Base Coat Stucco with Water-Stop (No. 1139-80)
      1. Compressive Strength, ASTM C109:
         900 psi (6.2 MPa) @ 7 days
         1,200 psi (8.3 MPa) @ 28 days
      2. Wind Driven Rain, ASTM E514: 0.002 lb (0.9 g) per hours
      3. Compliance, ASTM C926

FINISH COAT MATERIALS

A. Factory proportioned stucco finish color and texture coat. Comply with the following:

1. Finish Coat Stucco
2. Performance and Physical Properties at 73 degrees F (23 degrees C) and 50 percent relative humidity.
   a. Compressive Strength, ASTM C109:
      900 psi (6.2 MPa) @ 7 days
      1200 psi (8.3 MPa) @ 28 days

b. Compliance, ASTM C926 (Type F Plaster)

EXECUTION

3.10 **EXAMINATION**

A. Prior to starting lathing or plastering work, carefully inspect installed work of other trades to verif y that work is complete to the point where work of this section may properly commence.

B. Notify the architect or proper authorities in writing of conditions detrimental to the proper and timely completion of the lathing and/or plastering work.

C. Do not begin installation until all unsatisfactory conditions are resolved.

D. A pre-construction meeting is recommended with the architect and/or owner, primary contractor and representatives responsible for the windows, framing, flashing, roofing, sealants, stucco and any other building components interfacing with the stucco.

PERFORMANCE

A. The work shall be performed by a skilled and trained work crew.

B. Install specified products and/or systems in accordance with reference standards, manufacturer's
recommendations, unless indicated otherwise in project documents.

C. Flashing shall be installed prior to start of lathing or may be required to be integrated at the time of lathing.

INSTALLATION OF STUCCO TRIM ACCESSORIES

A. Verify that substrate and work by other trades are complete to the point at which installation of trim accessories may properly commence.

B. Attachments shall be firm enough to hold trim accessories in place without misalignment during plastering.

- Flanges or attachment points of trim accessories shall be secured to substrate in accordance with requirements of manufacturers of approved fasteners. Space per manufacturer's directions.

C. Zinc alloy or PVC is recommended if trim accessories are exposed to a high-salt environment.

D. Install individual trim-accessory sections to each other at end joints for accurate alignment.

E. Install trim accessories in a manner that ensures a true, level and plumb stucco surface, and moisture resistant.

F. Install the trim accessories in accordance with the required thickness of stucco basecoat and finish coat requirement.

G. Install the longest possible lengths of trim accessories. A minimum continuous section (length) of 7 ft. (2 m) is recommended.

TRIM ACCESSORY JOINTS
A. The water-resistant barrier must continue to be unbroken behind trim accessory joints in vertical or horizontal direction.

B. Locate trim accessory joints strategically at points where building movement is anticipated.
1. Wall penetrations
2. Structural plate lines
3. Junctures of dissimilar substrates
4. Existing construction joints in structure
5. Columns
6. Cantilevered areas

C. Joints are recommended in stucco assemblies with lath reinforcement but have limited use in direct-applied stucco over concrete or concrete masonry surface.

D. It is recommended that trim accessory joints be weather-sealed by embedment in caulking at intersections when placed end-to-end and at the terminations.

E. It is recommended to install vertical joints continuously and abut them to horizontal joints (be sure that water-resistant barrier runs continuously behind joints).

F. Install longest possible lengths. No termination of a section within 24 inches (600 mm) of an intersection with the exception of pre-manufactured trim accessory joint intersections.

G. Trim accessory joints shall be installed on framed, sheathed construction so as to create stucco panel of 150 to 180 sq. ft. (14 m² to 17 m²) in as square a configuration as possible.

H. Trim accessory joints shall be installed with concrete or concrete masonry construction so as to create a stucco assembly (with lath reinforcement) of 200 to 250 sq. ft. (18 m² to 23 m²).

I. Installing control joints over continuous lath is an approved method.

J. Sheathed framed construction with vertical trim accessory joints that require the lath to be terminated (cut) and installed on top of the flanges shall be placed at framing member locations. Lath shall be attached with appropriate fasteners through the trim accessory flange, sheathing and into the framing member.

SUBSTANTIAL COMPLETION

Scope:

- Preparation the following:
  - Punch list
  - Warranties
  - Certifications
  - Occupancy permit
  - Start-up and testing of building systems
  - Changeover of locks
- Prerequisites to final acceptance
  - Final payment request with supporting affidavits
  - Completed punch list & instruction of Franchisee's personnel
- Record document submittals.
  - Provide a copy of "As-Built" drawings and a diskett each to Franchisor and Franchisee.
- GC shall repair, patch and touch-up marred surfaces to match adjacent finishes.
- GC shall clean the entire construction as a brand new facility.
  - At completion of construction GC, Franchisor and Franchisee shall conduct a final walk through before acceptance.
  - GC shall provide no less than a one (1) year warranty on all labor and materials used in constructing the Ivy Kids Early Learning Center Franchise.

REVISIONS AND ISSUANCE

NO.	DATE	DESCRIPTION
1	07/20/2017	PRICING

IVY KIDS EARLY LEARNING CENTER

4434 CR 94
Manvel, Tx 77578

REGISTERED ARCHITECT JOHNNIE I. MOORE 9305 STATE OF TEXAS

01/09/2018

DRAWING TITLE

SPECIFICATIONS

DRAWN BY	CHECKED BY JC
DATE 03/30/2017	JOB NO. gleannloch

DRAWING NO. **A-0.2B**