

DIVISION 8 DOORS, WINDOWS, GLASS

SECTION 8.1 GENERAL

8.1.1 The "General Requirements" of these specifications are hereby made a part of this Division.

SECTION 8.2 METAL DOORS AND FRAMES

8.2.1 SCOPE
Furnish and install exterior metal doors and frames as indicated on the contract documents.

8.2.2 MATERIALS

A.Metal doors shall be 18 gauge A60 galvanized steel, bonderized finished with one coat baked on primer paint. Doors to be 1 3/4 inch thick; see Door Schedule on plans for width and height. Doors to be installed with flush metal caulked top cap. Delivery door shall have polystyrene core--(insulated solid core board permanently bonded to the inside of each face sheet meeting R Value 7.25 or greater) & continuous hinge. Select one of the following manufacturers:

- 1.The Ceco Door: UltraDor
2.Republic Builders Products: "DC" Series doors
3. Steelcraft 1-18 Series door
4. Arweld 17L Series door
5.Curries: 707 Series door
B.Metal frames shall be 16 gauge A60 galvanized steel, double rabbeted shape. Frames to be bonderized finished with one coat baked on primer paint. Frames shall have a 2 inch face frame and sized for 1 3/4 inch metal cores. See Door Schedule for width and height dimensions; see Architectural details for jamb depth dimensions. Frames to be furnished knock down. Select one of the following manufacturers:

- 1.The Ceco Door: "SU or SO" Series
2.Republic Builders Products: "ML16" Series
3. Steelcraft: "E-16" Series
4. Arweld: 0400 Series

8.2.3 INSTALLATION
A.Doors and frames shall be installed plumb, rigid and with all clearance accurately maintained. See plans for details.

SECTION 8.3 DOORS AND FRAME (INTERIOR)

8.3.1 SCOPE
Furnish and install interior doors and frames as indicated on the Door Schedule, on the drawings.

8.3.2 MATERIALS

A.Solid core doors with Low-Pressure Decorative Laminate (herein referred to as "LPDL"). Thermal face complying with NFMA I.S. 1-A, 2004 edition. Performance duty level: Extra Heavy Duty. B.Frames shall be 16 gauge cold rolled steel, double rabbeted shape. Frames shall be factory finished with one coat baked on primer paint. Frames shall have a 2 inch face frame and sized for a 1 3/4 inch solid core door. See Door Schedule for width and height dimensions; see Architectural details for jamb depth dimensions. Frames shall be furnished knock down. Select one of the following manufacturers:

- 1.The Ceco Door "DU" Series
2.Republic Builders Products: "MH 416" Series
3.Steelcraft: "DH16" Series
4. Curries: "C" Series

8.3.3 INSTALLATION

A.Doors and frames shall be installed plumb, rigid and with all clearance accurately maintained. See plans for details.

B.Clearance at the lock, hanging stile and top shall not exceed 1/8 inch; at bottom shall not exceed 1/4 inch, unless undercut for relief air.

C.All door crises shall be rounded to an 1/8 inch radius, and lock rail edges shall be slightly beveled.

D.The screws for hardware shall not be driven; pre-drill all screw holes.

E.All doors shall operate freely, but not loosely without sticking or binding, and with all hardware properly adjusted and functioning.

F.Finish hardware Schedule on the drawings.

SECTION 8.4 GLASS, GLAZING AND STOREFRONT

8.4.1 SCOPE
Furnish and install all glass, glazing, and drive thru pass out window--(8.4.5), entry doors, and window frames including all hardware, accessories, and accessories.

The contractor shall purchase and install the Hardec's Frosted Star Kit® (8.4.6), on each pair of entry doors.

B.Field conditions: Verify drawing dimensions with actual field conditions. Inspect related work and adjacent surfaces. Report all conditions which prevent proper execution of this work to OWNER.

C.Warranty: Sealants and storefront sections installed in conjunction with work of this section shall be warranted for a time period of two years from date of installation.

8.4.2 MATERIALS

A.Glass shall be of the dimensions as indicated in the Window Schedule on the drawings; verify size with accurate field framed opening. All glass shall conform to the following specifications and manufactured by one of the following companies:

- 1.Watlow Glass
2.LOF Glass
3.PPG Industries
a.Plate Glass: Shall be 1/4 inch thick, clear glazing quality float glass and shall meet the requirements of ASTM C-1036. See plans for location.

b.Tempered Safety Glass: Shall be 1/4 inch thick, clear glass and meet the quality and strength requirements of ASTM C-1048. All tempered glass must show permanent identification. Location per plans and building codes.

c.Double (Insulated) Glazing: Where required, 1" thick, low E, double glazed (this represents total glass thickness including air space), insulated glass shall be installed at all locations specified on the Window Schedule. Glazing units shall be assembled as follows:

1.Exterior Light: 1/4" thick, clear glass.
2.Air Space: 1/2" thick. NOTE: If muntins are shown on plans, they shall be 1/2" wide x 1/4" thick aluminum and shall be mounted on _ _ _ _ _ coat. Pattern and color as shown on drawings.

3.Interior Light: 1/4" thick, clear glass.
Glazing units shall be factory fabricated/sealed with dry air. See Window Schedule for glass type (plate or tempered safety glass).

B.Storefront System (when shown on plans)

1.Storefront aluminum to be stock sections and sizes as detailed on plans. Approved supplier: Kawneer Company TRIFAB II - 400 System - (451 with dual glazing). No other setup is acceptable.

2.Entry doors to be Kawneer, Paneline, Series 400 / 451, medium stile. Double door set to be provided with removable astragal. Clear Anodized Brushed Aluminum Finish unless noted otherwise on plans.

3.Break shapes: When shown on plans.
4.Weathering: Door frames shall be equipped with door stop Sealair Weathering. Penetration shall not exceed 0.50 CFM per lined foot of perimeter crack when tested at 157 PSF.

5.Aluminum Finish: Color to be #17 clear anodized--(unless noted otherwise on plans). All aluminum finishes to be Architectural Class I, 0.2 mil thickness on 16 gauge, 1.0 mil thickness on 18 gauge per square inch.

6.Set thresholds secure to floor with matching color--sunk screws in expansion slots. Thresholds shall have end sections with mitered corners, set back 1/2 inch exterior concrete walls, and shall extend to the outer edges of the door jambs. Sealant as necessary on jambs.

8.4.3 PROTECTION

All aluminum sections and glass shall be wrapped in plastic or covered with suitable material at time of installation to prevent damage and other foreign matter from adhering or damaging the material.

8.4.4 INSTALLATION

A.Use only mechanics skilled in their trade.
B.Installation to be in accordance with manufacturer's printed instruction.
C.Bonding glass in aluminum sections in some gaskets of some manufacturer as sections. Glass shall be guaranteed not to rattle.
D.Break scratched or defective glass will be replaced at no cost to OWNER.
E.All glass and glazing to conform to requirement of the local Building Code, with respect to wind loads, glazing, etc. Tempered glass must be installed per Building Code standards and requirements.
F.Before setting glass in wood stops a continuous full bead of silicone caulk will be applied to the stop. The glass shall then be pushed into the silicone and then the capped stops will be installed.

8.4.5 SLIDING PASS THRU WINDOWS

A.Drive Thru sliding windows to be Ready Access Single Panel Slides. Manual open/self close 47" x 43". Phone (800)621-5045.

B.All metal frame members to be finished "Statuary Bronze" anodized aluminum color.
C.See plans for size and location of window.
D.Window frame assembly to be installed per manufacturer's instructions.
E.Sliding window to operate freely and to the complete satisfaction of OWNER.
F.Specify correct slide side of window when ordering.
Slide opening 18-1/2" x 23".

8.4.6 HARDEC'S FROSTED STAR KIT

A.The contractor shall purchase the "Frosted Star Kit" from:
XLMT Window Tinting, Inc.
2940 E. La Palma Avenue
Suite "C"
Anaheim, CA. 92806
Contact: Jennifer Schuch @ 800-495-6884
jennifer@xlmt.com

B.Each Star Kit will include pre-cut frosted star pieces, instructions on how to install, and the required tools for its installation. Normal lead time for shipping is two weeks.

C.The Star Kit will be shipped in a cardboard box and secured on a hard plastic core suspended by end caps.

SECTION 8.5 FINISH HARDWARE

8.5.1 SCOPE

A.Furnish and install all finish hardware and toilet accessories as per hardware specification on drawings.

B.Hardware installation includes but is not limited to the following:
1.Hardware for all doors (excluding aluminum/glass storefront doors).
2.Door stops as required (excluding aluminum/glass storefront doors).
3.Toilet Room and Kitchen accessories as scheduled and indicated on plans.

8.5.2 SUBMITTALS

A.All hardware shall be exactly as specified on drawings. No substitutions will be allowed.
B.Supplier furnish all necessary blueprints, templates and other detailed information as necessary relative to the hardware installation.

8.5.3 INSTALLATION

A.Install all hardware in accordance with manufacturer's recommendations.
B.Carefully fit hardware before painting, remove prior to and reinstall after painting is complete.
C.Prior to and install solid backing as required for mirrors, accessories, grab bars, etc.
D.Set thresholds in mastic bed and secure to floor with matching counter sunk screws in expansion shield or by other approved methods.
E.Install door closures "parallel" at all entry and delivery doors.

8.5.4 HARDWARE GENERAL NOTES

A.All hardware shall be delivered to OWNER.
B.All surface mounted door closures to be installed with set bolts completely through door. Heads shall be painted to match adjacent surface finish.
C.Contractor shall check hardware specifications for all toilet accessories which are recessed.

DIVISION 9 FINISHES

SECTION 9.1 GENERAL

9.1.1 The "General Requirements" of these specifications are hereby made a part of this Division.

SECTION 9.2 LATHING AND PLASTERING NOT USED.

SECTION 9.3 GYPSUM WALLBOARD

9.3.1 SCOPE

Includes all labor, materials and appliances for the installation of gypsum wallboard as shown on the plans. Also includes metal framing, when shown on plans. See Section 5.4.

9.3.2 MATERIALS

All materials to be manufactured by one of the following manufacturers only:
1.James Hardie Gypsum
2.Gold Bond Gypsum Wallboard
3.United States Gypsum
4.Pabco Gypsum

A.Gypsum Panels: All gypsum panels and accessories shall be the product of one manufacturer, shall be tapered edge and shall be in lengths as long as practicable.

B.Interior Panels: Shall be 5/8" thick and shall conform to the requirements of ASTM C-36. When shown on plans and required by governing authorities, panels shall be 5/8" thick type "X", sheetrock firecode gypsum panels.

C.Interior Waterproof Panels: Shall be 5/8" thick sheetrock water/moistures resistant gypsum panels. Install in accordance with I.C.B.O. Report No. 2240 and conform to ASTM C-630.

D.Joint Treatment Materials:
1.Joint tape: Perforated, spackled, ASTM C-474-B1T.
2.Edge reinforcing and accessories: See section E of 9.3.2.
3.Joint Compound: as recommended by gypsum panel manufacturer.

E.Metal Accessories:
1.Corner reinforcing: galvanized steel external corner reinforcement with 1 1/4 inch wide mesh expanded flanges.
2.Edge reinforcing/trim: galvanized steel reinforcement with a 1 1/4 inch wide fine mesh expanded flange, L-shaped trim, 5/8 inch high.

F.Fasteners:
1.Nails: Cooler nails, size as required.
2.Screws: 1 1/4" type "W", and type "C".

9.3.3 APPLICATION

A.Examine surfaces on which drywall is to be applied for defects or misaligned framing. Do not start work until such defects are repaired.

B.Refer to manufacturer's printed instructions for application of vinyl materials.
C.All joints shall be closed with perforated mesh tape in joint compound with the three coat method, sanding after each coat. Nails and screws shall be spotted with joint cement and sanded smooth.

D.All exposed painted surfaces shall be finished with a medium "Orange Peel" texture.
E.Water and moisture resistant gypsum board at the following wall locations:

- 1.0.1 Ceramic tile
2.0.2 Culinary wall
3.0.3 Oil spills surrounding water sink
4.0.4 All walls surrounding mop sink
E.All oil waterproof properly apply water resistant sealant to all cut edges and nail heads. Metal reinforcing/trim shall be installed as detailed on the drawings. Corner reinforcing shall be installed full height at all external gypsum board corners.

9.3.4 INSPECTIONS

Inspection required by building officials, wallboard nailing to be inspected before joint tape is applied.

SECTION 9.4 PAINTING

9.4.1 SCOPE
Includes all interior and exterior painting of building as specified and scheduled; including all on site accessories, trash enclosure gates, exposed conduits, etc., and sealing (where required) of masonry. Includes furnishing and installation of vinyl wall coverings.

9.4.2 SAMPLES
OWNER may require several color samples of paint on material which it is to be applied without additional compensation.

9.4.3 STORAGE
The painter shall store all materials and equipment in a room assigned for that purpose. Precautions shall be taken to reduce the fire hazard. The room shall be left clean and in good condition.

9.4.4 PROTECTION OF WORK
Furnish and lay drop cloths or do any necessary masking on all areas where painting is being performed. All surfaces not to be painted or stained shall be free from drips or over-spray.

9.4.5 MATERIALS

Paints, stains and varnishes shall be as specified and as described on the Color/Material Schedule. The following approved manufacturers may be substituted for specified manufacturers as shown on Color/Material Schedule. It is the Painter's Contractor's responsibility to ensure any substituted manufacturer's materials matches specified materials' color, tint, sheen, and application. In the event that non-standard or custom colors are specified on the plan sheet finish schedule, the painting contractor shall be responsible to match those colors with the specified paint brand in the same manner as outlined above for standard colors.

- A.Paint Manufacturers:
1.Behr Paints
2.Dunn-Edwards Paints
3.Frazee Industries, Inc.
4.Pittsburgh Paints
5.Prott & Lambert Paints
6.Sherwin-Williams Company
7.Vista Paint
B.Stains:
1.Behr Stains
2.Olympic Stains
3.Pittsburgh/Rez Stains
4.Prott & Lambert Stains
5.Frazee Industries, Inc.
6.Anti-Corrosive Paint and Clear Finish (when noted on plans):
1.Manufacture:
A.Design is based on products manufactured by Sherwin-Williams.
B.Materials shall be the product of one manufacturer and shall be either the ones upon which the design is based or the products of a manufacturer of equal quality from the manufacturers listed in 9.4.5.

2.Materials:
A.Figmented:
1.Sealer W 709 EFF_STOP
2.Finish Coat: Dunn Edwards T 59-89 a two-part aliphatic urethane polyester based mixture, 340 VOC. Color pigment shall be factory mixed in the aliphatic urethane.

a.Color shall be selected by OWNER from the manufacturer's full line of standard colors.
b.Coatings shall have been tested in accordance with the manufacturer's printed literature.
c.Anti-graffiti coatings shall be easily cleanable with Gramox or graffiti cleaners without requiring re-coating.

B.Clear Finish:
1.Sealer W 709 EFF_STOP
2.Finish Coat: W 701 EVERSHIELD
3.Clear Finish Coat: Dunn Edwards T 59-90, 340 VOC, a two part aliphatic urethane polyester based mixture.

9.4.6 PREPARATION OF SURFACES
A.Report any unacceptable surface to OWNER. Do not proceed until such surfaces are acceptable. Upon failure to so report, painting contractor shall make good all defects and damages arising thereon at no cost to OWNER.

B.All exterior wood siding, trim and exposed plywood siding shall be back and edge primed prior to application of wood material to building surface.

C.All surfaces regardless of material or condition of priming coats applied by others, shall be properly prepared for the work.

D.Remove all foreign matter from steel and iron. Clean and sand smooth, all chipped or abraded steel pieces that have been shop coated.

E.Putty all screw and nail holes or other indentations with a knife after priming of first coat.
F.All surfaces shall be sanded between coats, except re-sawn or textured wood.
G.Where required by governing authorities, all wood finishes shall be fire-treated to authorities' standards before applying finish paint or stain.

9.4.7 APPLICATION

A.General:
1.All materials shall be mixed and applied in accordance with the manufacturer's recommendations.
2.Use only enamel or metal. No vinyl or latex paint will be permitted on metal surfaces.

3.A minimum of three (3) coats of paint or varnish are to be applied to each surface, except where noted otherwise. All coats of paint are in addition to shop coat sealer.
4.Each coat of paint shall be a different color tint. See Finish Description for colors and sheens to be used.

5.Finish on all interior of wood trim shall be as specified on "Interior Wood Trim", and when required shall have a smooth satin finish as per specification on file at OWNER'S office.

6.Use only enamel or metal. No vinyl or latex paint will be permitted on metal surfaces.
7.Any projections of equipment beyond the top of roof parapets shall be painted same color as parapet G. cap strip.
8.All painting shall be done in a first to last manner, and per number of coats applied as per this specification.

9.Do not apply during foggy or rainy weather, when surfaces are wet, or when temperature is likely to drop below freezing. Avoid painting surfaces exposed to direct sun.

10. Properly prepare structure to receive paint per manufacturer's recommendations.
B.Interior surfaces: wood trim (when noted):
1.Apply one (1) coat semi-transparent stain (when shown on plans).
2.Apply one (1) coat clear seal primer.
3.Apply two (2) coats oil base semi-gloss urethane and sand smooth between each coat. (Finish shall be a dull sheen, oil base urethane or varnish will be acceptable.)

C.Interior surfaced wood trim (when noted):
1.Apply prime coat.
2.Apply two (2) finish coats. See schedule for type.
D.Interior non-insulated planking: (where applicable)
1.Brush apply one (1) coat semi-transparent stain, or as specified in Color/Material Schedule.
2.Apply urethane where called for on Color/Material Schedule.

E.Exterior surfaced and rough sawn wood:
1.Apply one (1) coat semi-transparent stain (when shown on plans).
2.Apply two (2) coats oil base semi-gloss point unless otherwise noted on plans. Color as shown on plan.

F.Exterior wood trim, siding and exposed plywood siding shall be back and edge primed prior to application of wood material to building surface.

G.Exterior metal doors and frames:
1.Apply one coat.
NOTE: Backprime all edges, top, bottom and exterior faces and clear prime interior face.
2.Apply three (3) finish coats. See schedule for type.
3.Gypsum board sealer:
1.Apply two (2) coats of oil base sealer to all gypsum board which receives laminated plastic or vinyl wall fabric. (No latex sealers are permitted.)

H.Exterior Masonry:

When called for on the drawings and shown on Material Schedule of plans, paint masonry and trash enclosure with one (1) roller or brush applied coat of commercial grade block filler prior to receiving the two (2) finish coats of exterior paint. This requirement shall also include the interior of the trash enclosure. Where masonry is specified to be sealed, sealer shall be as specified per Section 9.4.9 of this specification.

1.Interior & Exterior ferrous metals:
1.Wash surface with mineral spirits to remove dirt and oil.
2.Where shop coat is abraded, spot prime with rust inhibitive paint.
3.Apply one (1) prime coat.
4.Apply two (2) coats semi-gloss enamel. See Elevations and schedule for type.
5.Interior and exterior galvanized metals:
1.Apply one (1) coat Rust-Oleum 3200 System Clear Blue Undercoat.
2.Apply two (2) coats finish, no less than one hour or more than 24 hours after application of primer. See Schedule for type.

K.Interior gypsum board:
1.Apply one (1) coat primer sealer.
2.Apply two (2) coats finish. Use stipple finish on all painted gypsum board surfaces. See Schedule on plans for color and type.
L.All wood and metal door frames, shall be painted or stained to match adjacent door face or as specified on the Door and Window Schedules. See painting specifications for type and number of coats.
M.Exterior Stucco or EPS:
1.Apply two (2) coats semi-gloss point.

9.4.8 WORKMANSHIP

A.Work shall be performed by skilled mechanics.
B.Finished surfaces shall be free from blemishes.
C.Where any defective surfaces occur, recondition the area until a proper finish is obtained and is approved by OWNER. No additional compensation shall be granted for the correction of unsatisfactory work.

9.4.9 MASONRY WATERPROOFING

All building and trash enclosure masonry shall be sealed with "Aridex" Silicone wall coating, as manufactured by Anti-Hydro Water-proofing Company, or Thompsons Water Seal Heavy Duty #201, per manufacturer's latest printed instructions. Sealer shall be flood coated, so that when water is placed against masonry, no moisture will penetrate the masonry. All water shall freely run off all masonry work. Where masonry is painted, waterproofing/sealing is not required.

9.4.10 EXTERIOR AND INTERIOR PAINTING SCHEME

See interior and exterior elevations and Color/Material Schedule for materials and locations, as scheduled on the plans.
NOTE: All hardware shall be removed prior to any painting and reinstalled after painting is complete.

SECTION 9.5 TILE WORK

9.5.1 SCOPE

Includes all labor, material and equipment required to furnish and install all quarry tile, tile pavers, glazed ceramic tile and other tiled surfaces. Refer to additional scope requirements in section 7.8 for Malls, Food Courts, Schools and similar situations.

9.5.2 MATERIALS

NOTES:
1.Quarry tile and tile pavers is not to exceed moisture absorption limits of Federal Specification #SS-T-308b. Moisture absorption determination by ASTM C_67 absorption test.
2.Upon final completion of job, tile contractor shall provide OWNER with 50 additional pieces of each tile used on the floors and walls. Carbons shall be sealed and labeled, indicating make and color of tile.

A.Quarry Floor and Base Tile:
Tile shall be 6" X 6" X 1/2" size--square edge, with 6" high bullnose top and 3/8" cove at base tile. Tile shall have an abrasive/slip resistant finish in all traffic areas. All proper trim and corner pieces shall be used. All materials (floor, base and trim) to be manufactured by one of the following manufacturers only:
1. Emser Tile - "E-Quarry"
2. Dal Tile Q-41

B.Decorative Floor Tile and Base:
Tile shall be as indicated on drawings, see Material Schedule, with 6" high bullnose top and 3/8" cove at base tile (sanitary cove base). All proper trim and corner pieces shall be used. All materials (floor, base and trim) shall be of the same manufacturer and meet a minimum coefficient of friction of .06X.

C.Glazed Ceramic Tile (Wall tile):
Ceramic tile shall be fully glazed wall tile. All proper trim and corner pieces shall be used. Size, color and manufacture as indicated on drawings, see Material Schedule. All ceramic tile trim pieces, bull nose and cove pieces, shall be of the same nominal dimension as the tile to be trimmed.

D.Adhesives:
3.Ceramic Tiles: Tile_Mate Thin_Bed Mortar, TCA formula #763, as manufactured by the Upco Company, Cleveland, Ohio.
4.Quarry Tile and Pavers: Tile_Mate Thin_Bed Mortar, TCA formula #759, as manufactured by the Upco Company, Cleveland, Ohio.

E.GROUT:
1.Quarry tile and tile pavers to be grouted with quarry type (wet) sanded grout.
2.Ceramic tile to be grouted with ceramic grade, non-sanded (dry) grout.
3.All tile grout shall be the color as noted on the Color/Material Schedule.
GROUT COIORS shall be manufactured by one of the following:
a. Custom Color Grout
b. LUPCO/Emhart Corporation
c. Latorece
F.Cleaning:
Before acceptance of building by OWNER, all quarry tile floors must be thoroughly cleaned with acid wash, sealed with "Aqua Mix Penetrating Sealer" distributed by Aqua Mix Inc. 9419 Ann Street, Santa Fe Springs, CA 90670. Phone # 1-800-366-6887.

NOTE: This must be done prior to the final inspection. Floor sealer shall be applied and immediately buffed. Do not allow surface water to remain on tile.

9.5.3 INSTALLATION
A.Tile and Decorative Tile: Install using the wet method over concrete slab. Quarry Tile base tile walk-in boxes in areas to be installed.
NOTE: At tile floors in kitchen, Dining Area, Prep Area, Dry Storage, Scullery and walk-in cooler shall have abrasive slip resistant finish in all traffic areas.

2.Ceramic wall tile: Install using a wet method over water-resistant gypsum board.
All tile shall be fully grouted in adhesive. Any floor or wall tile, with hollows, shall be replaced with solid bed settings.
3.All interior and exterior corners of quarry tile base, and/or ceramic base and wall tile, shall be installed using factory formed interior and exterior corners.
4.All bull nose tile shall be thoroughly mixed before installing to attain random color blend from the different manufacturer's runs.

5.Ceramic wall tile shall be installed after the quarry tile cove base and shall be laid out in such a manner that the top and bottom tiles shall be scribed to follow any variation in the ceiling or floor, respectively. Quarry base tile SHALL NOT be installed over ceramic wall tile.

7.All inside corners on ceramic tile walls will be sealed by a light, neatly applied, bead of clear silicone caulking. The silicone shall be installed by the tile contractor in a professional and workmanlike manner.

B.GROUTING:
1.After grouting, all floor tile shall be cleaned. Cover tile with kraft paper until final clean-up of building interior.
2.Grouting to take place not less than 24 hours after tile is set.
C.All installation to be in compliance with the Tile Council of America's "Handbook for Ceramic Tile Installation", current edition. No tile shall be placed directly over plywood--(this supersedes any plan details shown to the contrary).

D.All buckets used during the tile installation shall be dumped and/or cleaned outside of the building. Do not pour anything down the drains in the building.

SECTION 9.6 ACoustical TILE

9.6.1 SCOPE

Includes all labor, material and equipment required to furnish and install acoustical tile ceilings.

9.6.2 MATERIALS
A.Kitchen Area: 24" X 48" X 5/8", square edge, lay-in, unperforated white tile. Select one of the following materials:
1.Armstrong V. RH90 Fire Guard Non-perforated #870.
2.U.S.G. Gypsum Lay-In Panels #3270 24" X 48", vinyl stipple white.

B.Dining Area: 24" X 24" X 3/4", shadow/reveal edge, lay-in tile. Select one of the following materials:
1.Armstrong #1761 Fine Fissured. Color - "Adobe".

9.6.3 SUSPENDED CEILING SYSTEM, MATERIALS
A.Suspension system shall be exposed tee, double web design. Kitchen area exposed grid and trim shall be factory finished to satin white color. Kitchen area to also be 1-hour fire rated product. Dining area exposed grid and trim shall be factory finished Silver Satin. Select one of the following manufacturers:
1.Chicago Metallic Corporation, #1250 Fire Rated in Kitchen.
ICBO #1905
LARR #23256
Fire Rating #24299

2.USG Donn - DX / DXL System in Kitchen
ICBO #2244
LARR #22178, Class A
Fire Rating #23541
3.Armstrong Grid - Preluce XL in Kitchen
ICBO #5173
LARR #25032 Class A

B.Wire hangers shall be 12 gauge as required by local building code spaced at 48" O.C. each way.
C.Installation shall comply with local codes and manufacturer's latest printed specifications, with a maximum deflection of 1/360 of the span.

9.6.4 INSTALLATION

A.Scribe all tile to walls, soffits and as detailed. When possible, edge tile to be one half or greater. See plans for special edge conditions; edge trim to match exposed grid system.
B.Grid system and tile to be installed per manufacturer's instructions. Grid system, wires and tiles shall be installed level and true.
C.Suspension system and acoustical tile in kitchen areas shall conform to and be installed to the satisfaction of the Local Health Department.
D.Clean any soiled tiles and/or exposed grid after installation is complete. Leave installation in new condition and to the satisfaction of OWNER.

SECTION 9.7 FIBERGLASS REINFORCED POLYESTER PANELS

9.7.1 SCOPE

Includes all labor, material and equipment required to furnish and install all paneling and accessories, and corner guards.

9.7.2 MATERIALS

A.Fiberglass Reinforced Polyester (F.R.P.) panels shall be 3/32" thick, pebble finish. See plans for color. Use manufacturer's matching color trim. Contractor shall select one of the following manufacturers (if all new. For remodels, match existing):
1.Kemfile glasters
2.Marite Corporation
3.Gastel
4.Lasco Board
B.Trim where detailed or required, to match panels.
C.Adhesive as recommended by manufacturer.

9.7.3 INSTALLATION
A.Determine that surfaces to which paneling are to be applied are thoroughly dry, straight and backs of panels and wall are free from dirt, dust and grease.
B.Cut panels face up, level back edges of panels to permit them to fit and move in moldings easily. No horizontal joints are permitted at walls.
C.Do not use built joints. Use moldings fitted to allow for expansion.
D.Apply thin coating of adhesive to panel back. Spread with comb spreader to create proper contact ridges in the adhesive. Entire back of panel must be completely covered with adhesive.
E.After panels are placed, knead and press them to wall crossings to make adhesive gripping firmly.
F.Remove excess adhesive with mineral spirits.
G.At time of final inspection, all F.R.P. panels shall be thoroughly cleaned.

9.7.4 CORNER GUARDS
A.Contractor to furnish and install Corner Guards as shown on drawings. All adhesive must be dry. Apply Corner Guard as per manufacturer's instructions. Silicone caulk with clear silicone, all joints between the wall and the Corner Guard. Install with adhesive.
C.Cor