email: rwesley@vulcraft-al.com

1.1.4 The deck shall not sit on the site for more than 10 days before being erected.

1.2. Submittals:

1.2.1 Conform to requirements of Section 01 33 00 Submittal Procedures.

1.2.2 Product Data: For each type of decking, accessory and mechanical fasteners (if used), submit manufacturer's specifications and other data needed to demonstrate compliance with the specified requirements.

1.2.3 Shop Drawings: Submit detailed drawings showing layout and types of deck panels, anchorage details, and conditions requiring closure panels, supplementary framing, sump pans, cant strips, cut openings, special jointing or other accessories.

1.2.4 Installation Instructions: Submit manufacturer's recommended installation procedures which, when approved by the Engineer, shall become the basis for accepting or rejecting actual installation procedures used on the work.

1.2.5 When the materials of this section are used as part of an assembly indicated on the drawings in which fire-resistive construction ratings are required, submit evidence of approval by Underwriters' Laboratories, Inc. and the local Authority having jurisdiction.

1.2.6 Insurance Certification: Assist Owner in preparation and submittal of roof installation acceptance certification as may be necessary in connection with fire and extended coverage insurance.

1.3. Quality Assurance:

1.3.1 Codes and Standards: Comply with provisions of the following codes and standards, except as otherwise shown or specified:

1.3.1.1 AISC "Specification for the Design of Light Gage Cold-Formed Steel Structural Members".

1.3.1.2 AWS "Structural Welding Code- Steel", and "Structural Welding Code-Sheetsteel".

1.3.1.3 SDI "Design Manual for Floor Decks and Roof Decks".

1.3.2 Qualifications of Field Welding: Qualify welding processes and welding operators in accordance with AWS "Standard Qualification Procedure". Also follow requirement of Division 5 Section 3.6 "Welding" of this specification.

1.3.2.1 Welded decking in place is subject to inspection and testing. Expense of removing and replacing portions of decking for testing purposes will be borne by Owner if welds are found to be unsatisfactory. Remove work found to be defective and replace with new acceptable work.

1.3.3 FM Listing: Provide metal roof deck units which have been evaluated by factory mutual system and are listed in "Factory Mutual Approval Guide" for "Class I" fire rated construction.

1.4. Manufacturer:

1.4.1 All roof decking shall be the product of a single manufacturer; all floor decking shall be the product of a single manufacturer.

1.4.2 Manufacturer shall be a member of the Steel Deck Institute.

2. Products:

2.1. Roof Deck (and rooftop equipment room floor decking)

2.1.1 Provide minimum 22 gauge SDI Type "B" deck (1 1/2 in.), capable of supporting uniformly distributed live and dead load of 50 psf over 6'-0" clear span, with deflection limited to 1/240 of the span. See design documents for minimum gauge requirements

2.1.2 Provide galvanized, top and bottom prime painted deck. Prior to painting, the galvanized steel shall be chemically cleaned and pre-treated in accordance with prime-paint manufacturer's recommendations. Prime paint shall be water-borne, rust inhibitive, recommended by manufacturer for use over galvanized steel, compatible with specified field applied finish coats, color: gray.

2.1.2.1 Primer: Manufacturer's standard primer, unless noted otherwise.

2.1.2.2 Steel shall conform to ASTM A653, Structural Quality, G-60.

2.2. Floor Deck

2.2.1 Provide minimum 26 gauge SDI type "C" deck (9/16 inch). See design documents for additional design requirements.

2.2.2 Steel shall conform to ASTM A653, Structural Quality, G-60. Deck shall have overlapped side joints and span at least 3 supports.

3. Execution

3.1. Inspection

3.1.1 Installer shall examine areas and conditions under which metal decking is to be installed and notify Contractor in writing of conditions detrimental to proper and timely completion of work. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Installer.

3.2. Installation

3.2.1 General: Install deck units and accessories in accordance with Manufacturer's recommendations, current specifications and commentary of SDI, and final Shop Drawings, and as specified herein.

3.2.1.1 Place deck units on supporting steel framework and adjust to final position with ends accurately aligned and bearing on supporting members before permanently fastened. Do not stretch or contract side lap interlocks.

3.2.1.2 Place deck units flat and square, secured to adjacent framing without warp or deflection.

3.2.1.3 Provide additional reinforcement and closure pieces at openings as required for strength, continuity of decking, and support of other work.

3.2.1.4 Cutting and fitting: Cut and neatly fit deckunits and accessories around other work projecting through or adjacent to the decking, as shown.

3.3. Fastening Roof Deck Panels:

3.3.1 Fasten roof deck panels to steel supporting members by arc spot (puddle) welds of not less than 5/8" diameter. Use welding washers where recommended by deck manufacturer.

3.3.1.1 Weld Spacing: Space and locate welds as indicated in the Structural section of the Publix Construction Documents.

3.3.1.2 Side Lap and Perimeter Edge Fastening: Fasten side laps and perimeter edges of panels between supports, at intervals indicated in the Structural section of the Publix Construction Documents. Mechanically fasten with self-drilling No. 10 diameter or larger carbon steel screws, unless otherwise indicated in the Publix Construction Documents.

3.3.1.3 End Bearing: Install deck ends over supporting framing with a minimum end bearing of 1-1/2 inches, with end joints lapped 2 inches minimum, or as per SDI

3.3.2 Comply with AWS requirements and procedures for manual shielded metal arc welding, appearance and quality of welds, and methods used in correcting welding work.

3.3.3 Mechanical fasteners may be used in lieu of welding to fasten deck. Install according to deck manufacturer's instructions. Submit fastener data for approval. If approved, Engineer will determine fastener spacing.

3.3.4 Miscellaneous Roof Deck Accessories: Install ridge and valley plates, finish strips, cover plates, end closures, and reinforcing channels according to manufacturer's recommendations. Weld to substrate to provide a complete deck installation.

3.4. Mechanical Fastening Roof Deck Panels (Alternate to Welding)

3.4.1 Powder driven and Pneumatic Fasteners: Fasteners shall have knurled shank; minimum 1/2" diameter steel washer; electroplated zinc conforming to ASTM B633, Sc.1, Type II; meet SDI design requirements; FM approval.

3.4.1.1 Acceptable Fasteners for Bar Joists (1/8" minimum thickness to 3/8" maximum thickness) include Hilti ENP2K-20-L15, X-EDN19-THQ12 HSN or X-EDNK22 THQ12 HSN

3.4.1.2 Acceptable Fastener for Structural Steel (1/4" thickness and greater) is Hilti ENPH2-21-L15

3.4.2 Use of Powder actuated Tools shall only be by a qualified operator, trained and licensed by the tool manufacturer in accordance with the manufacturer's and OSHA requirements

3.4.3 Install fasteners to steel members as indicated below:

3.4.3.1 For ENPH2-21-L15 fasteners to secure roof deck to str[illegible]steel members using Hilti Powder Actuated tools DX-750 or DX[illegible]

3.4.3.2 For ENP2K-20-L15 fasteners to secure roof d[illegible] joists using Hilti Powder Actuated tools DX-750

3.4.3.3 For X-EDN19-THQ12 HSN or [illegible]NK22 THQ1[illegible] fasteners to secure [illegible]of deck to bar joists usi[illegible]ic Tool R[illegible] the Hilti Powder [illegible]ctuated tools DX-36[illegible] DX-A41[illegible]

3.4.3.4 [illegible]ailhead stand o[illegible]hall be acc[illegible]ing to the manufac[illegible] [illegible]endations an[illegible]erified [illegible] an inspection gauge. Th[illegible]el sh[illegible]etermined b[illegible] testing.

3.4.3.5 [illegible] of fastene[illegible] be in accordance t[illegible]esign requirements and instal[illegible] operator[illegible] and licensed b[illegible] manufacturer.

3.4.3.6 Powder A[illegible] Tools sh[illegible]ston principle, adjustable.

3.5. Field Q[illegible]ty Control

3.5.1 T[illegible] Agency

3.5.2 A [illegible] independen[illegible] agency employed and paid by the contractor will [illegible]y-control testing.

3.5.3 Field welds will be subject to inspection requirements of Section 05120, "Structural Steel".

3.5.4 [illegible]eck Attachment pattern will be subject to inspection.

3.5.5 Testing agency will report test results promptly and in writing to Owner and Engineer.

3.5.6 Remove and replace work that does not comply with specified requirements.

3.5.7 Additional testing, at Contractor's expense, will be performed to determine compliance with specified requirements.

3.6. Repairs and Protection

3.6.1 Touchup Painting: Wire brush, clean and paint scarred areas, welds, and rust spots on both surfaces of installed deck panels.

3.6.2 Provide final protection and maintain conditions to ensure steel decking is without damage or deterioration at time of Substantial Completion.

End of Section 05 30 00

Section 06 00 00

Woods, Plastics and Composites

V10312017

1. General

1.1. Submit LOI in accordance with Section 01 33 00 Submittal Procedures.

1.2. Scope of Work: See drawings including plans, room schedules and details for materials, attachment methods, etc. Frame for all concrete beams, slabs, etc. Provide all wood furring, blocking, and trim required.

2. Products

2.1. General:

2.1.1 Blocking: Provide all wood blocking and backing as required for the proper installation of plumbing and fixtures, cabinets, miscellaneous accessories, etc. Block between studs at joints butting two pieces of plywood or other material.

2.1.2 Interior partitions: Steel studs. See Section 09 29 00 Gypsum Board.

2.2. Wood species, grading:

2.2.1 Wood for thermal breaks in slabs: #2 Southern Pine, KD19, moisture resistant pressure treated as described below.

2.2.2 Interior Exposed Wood Trim: C-Select grade SPF-S. Base shall be 1 x 4 (nom.) with 45 degree sanitary cut top.

2.2.3 Other lumber: Where appearance is not a factor, Construction Grade SPF-S, KD19.

2.3. Plywood: Except as otherwise specified or provided, shall conform to requirements of American Plywood Association, Exterior Grades Group 1, Fir AC. Sheathing Grade Plywood shall be Fir or Pine, 4 ply, Exterior Glue.

2.4. Pressure Treated Wood:

2.4.1 Wood in contact with concrete or masonry, in the roofing system, as blocking for storefront openings or at other locations where necessary shall be pressure treated.

2.4.2 Provide wood pressure treated for above-ground use per AWPA Standards P5 and C2 or C9, Chromated Copper Arsenate type C ("Wolmanized", Osmose "CCA-C", Hoover "CCA", etc.), 0.25 pcf.

2.4.3 Salts retention:

2.4.3.1 Wood for thermal breaks in slabs: 0.60 lb/cuft minimum, AWPA C22.

2.4.3.2 All other locations: 0.40 lb/cuft minimum, AWPA C2.

2.5. Fire Retardant Wood Treatment:

2.5.1 All wood material shall be fire retardant treated.

2.5.2 Pressure treat wood with fire retardant material which has been tested and proven to meet AWPA Standards C20 and C27 for Type A use.

2.5.3 Treated product shall be low hygroscopic, and shall bear the UL stamp.

2.5.4 Kiln dry to moisture of 19% or less for lumber and 15% or less for plywood.

2.5.5 Interior exposed plywood: Treated and labeled to meet ASTM E84 Standards for Class C interior finish, kiln dried after treatment.

2.5.6 Use galvanized fasteners for fire retardant treated wood.

2.5.7 Approved treatment:

Chemical Specialties, Inc. - "D-Blaze"
Hickson Corporation - Dri-Con"
Hoover Treated Wood Products, Inc. - "Pyro-Guard"

2.6. Wood Cased Openings: Frame with nominal 2 x 4 frame, species, grade as above. Wrap with stainless steel.

2.7. Acrylic/Polyester Resin solid surfacing material:

2.7.1 Provide material and manufacturer's standard seamless joint kit. Color: Manufacturer's standard color to match Corian "Dusk."

2.7.2 Acceptable products:

Dupont "Corian"
International Paper, Nevamar Division "Fountainhead"
Ralph Wilson Plastics Co. "Gibraltar"
Formica Corporation "Surell"

2.7.3 Restroom lavatories:

Dupont "Corian" - Model 810 Bowl with Integrated Sink top. See Finish Schedule for color.

2.8. Acrovyn Wall Protection

2.8.1 Furnish and install Acrovyn Corner Guard Systems in models, sizes and quantities as detailed on the drawings, and as manufactured by and per the National Purchasing Agreement between Grand Entrance a member of C/S Group of Companies, Gaithersburg Md. and Publix Supermarkets Inc. Contact Sandra Gergely of Grand Entrance at (888-424-6287)

2.8.2 "0.40" High Impact Sheeting.

2.8.2.1 Acrovyn high impact sheeting shall be 0.40" thick rigid vinyl/acrylic.

2.8.2.2 Provide in sheets 3'x 10' or 3' x 8' with "pebblette" texture.

2.8.2.3 Patterns and colors are listed on drawings.

2.8.3 SCR-50 Crash Rail

2.8.3.1 Acrovyn surface mounted SCR-50 crash rail consiteing of continuous aluminum retainer including an integral shock absorbing cushion with a snap on Acrovyn cover

2.8.3.2 Acrovyn material shall be high impact acrlyic/vinyl with "pebblette" texture finish.

2.8.3.3 Acrovyn cover to flex upon impact for shock absorption.

2.8.3.4 Crash rail to be 5" high with 1-1/16" nominal depth

2.8.3.5 Provide color matched endcaps, outside corners and attachment hardware.

2.8.3.6 Color and pattern to be listed on drawings.

2.8.3.7 Follow all manufacturer's instructions regarding the installation of Acrovyn Protective Sheets and Crash Rails.

2.9. Stainless Steel

2.9.1 Covers for columns as indicated, covers for head and jamb of doors and cased openings as scheduled and detailed, and wall finish at all grease hoods, as indicated and a minimum of floor-to-ceiling, behind and 18 in. on either side of hoods.

2.9.2 Stainless Steel: 18 gauge, type 304 with number three polish.

2.10. Cooler Armor: Where indicated, provide cooler armor formed as shown from 14 gauge (minimum) steel sheet, forming steel Type B, ASTM A653, coating designation G90 (normal spangle), not chemically treated, oiled.

2.11. Provide Vinyl Cove Base on the Interior of all Walk-in Coolers and Freezers

2.11.1 Acceptable Products:

"Tight Lock Base System Resilient"

2.12. Fiberglass Reinforced Polyester Panels: As scheduled and as in[illegible]n drawings.

2.12.1 Panels 3/32" thick, 48" wide, extending full room height (no [illegible]ontal joints will be acc[illegible]d) or, where indicated o[illegible], use 48 in. [illegible] installati[illegible]ainscot.

2.12.2 Provide mate[illegible]earing U.L. la[illegible] indicating [illegible]ence with A[illegible]84 Standards for C[illegible] Interior Fi[illegible]

2.12.3 [illegible] junction [illegible] for all inside an[illegible]utside co[illegible] re[illegible] Layout [illegible]n so a m[illegible] of 16" panel w[illegible]h is maint[illegible]

2.12.4 Ac[illegible] Product.

"StructoGlas FR[illegible] Sequentia ([illegible]omposites)
"Standard FRP", [illegible]
"Fire-X Glasbord (F[illegible]ite (Crane Composites)
"GlasLiner FRP", Gi[illegible]
"Panolam FRP", Pa[illegible]olam Industries

2.12.5 [illegible]dhesive: Use a non-shrinking, waterproof mastic adhesive.

2.12.5.1 Acceptable Products.

Titebond, "Solvent-Based FRP Adhesive"
TACC, "T216 Panel Adhesive"
Chem Link, "DuraTex"
3M, "Scotch-Grip Construction Mastic 4323"

2.13. Rough Hardware: Nails, case hardened nails, spikes, screws, bolts, and similar items shall be of sizes and types to rigidly secure members in place. Use galvanized nails throughout the job, except in formwork that will be removed.

3. Execution

3.1 General:

3.1.1 Carefully lay out, cut, fit and securely erect all framing and all other items of carpentry. Adequate and substantial furring, blocking, grounds, and supports properly anchored, shall be provided for all paneling, trim etc.

3.1.2 At all plywood edges, there shall be either a vertical stud or horizontal backing to nail into.

3.2. Anchorage: All wood framing members in contact with steel, concrete or masonry shall be securely anchored at not over 48" intervals or as shown on the drawings. Provide anchors, bolts, and other items necessary for attaching miscellaneous equipment, all to be installed as the work progresses.

3.3. Grounds and nailing strips: Furnish and set dressed wood grounds for all trim. Check for perfect alignment with long straight edge.

3.4. All walls shall be finished before any ceiling work is done. Walls shall be installed as soon as the cooler and freezer are installed.

3.5. Fiberglass-Reinforced Polyester Panels: Install panels vertically with "T" mold between sheets and inside and outside corners as required. Install adhesive by either trowel or caulk gun.

3.6. Stainless Steel:

3.6.1 Sheet: Install with approved non-water-based contact cement. Cutting of all holes in steel covered panels for electrical and plumbing outlets shall be by appropriate trades, neatly and accurately to produce high quality appearance.

3.6.2 Cladding for cased openings, impact door frames, etc.: Install with appropriately sized compatible stainless steel screws using torque limiting screwdriver. Do not over-tighten.

3.7. Cooler Armor: Apply shop formed galvanized sheet steel armor where indicated on the Drawings, using sex bolts as shown, spaced 1'-0" o.c., top and bottom. Apply sealant top and bottom.

3.8. Solid Surfacing Material: Work material to produce lines and forms as shown. Where horizontal surfaces abut, weld sheets to form seamless joints, invisible as defined by manufacturer of sheet material, impervious to penetration and stains.

3.9. Protection: Paneling, woodwork, trim, doors, hardware, etc., shall be protected after delivery to job and after installation.

End of Section 06 00 00

Section 07 21 00

Thermal Insulation

V02212011

1. General

1.1. This Section includes the following:

Concealed building insulation (refrigerated case walls)
Underslab insulation (freezers)

1.2. Related Sections include the following:

1.2.1 Section 04 20 00 Unit Masonry for insulation installed as part of unit masonry construction.

1.2.2 Section 07 51 00 Built-Up Bituminous Roofing for insulation installed as part of roofing construction

1.3. Submittals:

1.3.1 Submit LOI in accordance with Section 01 33 00 Submittal Procedures.

1.3.2 No product submittals are needed.

1.4. Quality Assurance

1.4.1 Source Limitations: Obtain each type of building insulation through one source from a single manufacturer.

1.5. Delivery, Storage and Handling:

1.5.1 Protect insulation materials from physical damage and from deterioration by moisture, soiling and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing and protecting during installation.

1.5.2 Protect plastic insulation as follows:

1.5.2.1 Do not expose to sunlight, except to extent necessary for period of installation and concealment

1.5.2.2 Protect against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time.

1.5.2.3 Complete installation and concealment as rapidly as possible in each area of construction.

2. Products

2.1. Extruded-Polystyrene Board Insulation:

2.1.1 Refrigerated Case Wall Insulation: 1 1/2" thick.

2.1.1.1 Products:

"STYROFOAM Z-MATE", Dow Chemical Company
"Foamular 250", Owens Corning
"InsulPink Z", Owens Corning
"GreenGuard Scoreboard Insulation Board", Pactiv

2.1.2 Freezer Sub-Slabs: 2" thick, 24" wide by 96" long.

2.1.2.1 Products:

"STYROFOAM FREEZERMATE", Dow Chemical Company
"GreenGuard CM Insulation Board", Pactiv
"Foamular 250", Owens Corning

2.1.3 Foamed-in-Place Insulation Material:

2.1.3.1 Provide assembly R=20.

2.1.3.2 Compliant with VOC regulations.

2.1.3.3 Formaldehyde out-gassing less than 0.01 milligram per cubic meter when measured 28 days or more after installation.

2.1.3.4 Self extinguishing or non-combustible.

2.1.3.5 Rroducts:

"Core-Fill-500", Tailored Foam, Inc.
"R-501", PolyMaster, Inc.
"Thermco", Thermal Corporation of America
"Core-Foam", CfiFoam, Inc.

3. Execution

3.1. Preparation:

3.1.1 Examine all substrates, with Installer present, for condition compliance prior to installation. Correct all unsatisfactory conditions before proceeding.

3.2. Installation:

3.2.1 Comply with insulation manufacturer's written instructions applicable to products and application indicated.

3.2.2 Install insulation that is undamaged, dry and unsoiled and that has not been left exposed at any time to ice, rain and snow.

3.2.3 Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections and fill voids with insulation[illegible]emove projections that interfere with placement.

3.2.4 Add single layer of insulation [illegible]its to produce thickness indicated [illegible]less multiple layers are otherwise [illegible]hown or required to m[illegible]up total thickness.

3.2.5 On horizontal surfaces, lo[illegible]ly lay insulation units a[illegible]ing to manufacturer's written instructions. Sta[illegible] end joints a[illegible]tightly ab[illegible]ulation units.

3.2.6 Apply insulation units t[illegible] substrates by m[illegible]od indicate[illegible] complying w[illegible] manufacturer's written i[illegible]ructions. If [illegible]ecific meth[illegible] indicated, [illegible]ond units to substrate with a[illegible]sive or use m[illegible]anical anch[illegible] to provi[illegible] permanent placement an[illegible]upport of un[illegible]

End o[illegible]ection 07 [illegible]

Section 07 21 29

Sprayed Polyurethan[illegible]sulation

V04142014

1. General

1.1. This [illegible] includes the following.

Sprayed Polyurethane Foam Insulation

1.2. Related Sections include the following.

1.2.1 Section 07 21 00 Thermal insulation

1.2.2 Section 09 29 00 Gypsum Board

1.3. References:

1.3.1 ASTM C 518: Standard test method for Steady-State Thermal Transmission properties by means of the heat flow meter apparatus.

1.3.2 ASTM E 84: Standard test method for surface burning characteristics of building materials

1.3.3 ASTM 96: Standard test method for water vapor transmission of materials.

1.3.4 ASTM 283: Standard test method for determining rate of air leakage though exterior windows, curtain walls and doors under specified pressure differences across the specimen.

1.3.5 ASTM 1621: Standard test method for apparent density of rigid regular plastic.

1.3.6 ASTM 1622. Standard test method for apparent density of rigid regular plastics

1.3.7 ASTM 119: Compliant with Standard test method for fire test of building construction and materials.

1.3.8 NFPA 285. Compliant with Standard method of test for the evaluation of flammability characteristics of exterior non-load-bearing wall assemblies containing combustible components using the intermediate-scale, multistory test apparatus.

1.4. Submittals:

1.4.1 Submit LOI in accordance with Section 01 33 00 Submittal Procedures

1.4.2 Product Data must include manufactures data sheets including storage, handling installation methods

1.5. Quality Assurance:

1.5.1 Installations: Spray Polyurethane foam installer shall be certified to use the spray foam selected by manufacturer or other agency.

1.5.2 Installer shall provide the equipment required by the manufacturer for proper installation.

1.6. Delivery, Storage and Handling:

1.6.1 Storage for Chemicals should be between 65 and 80 degrees for proper processing through the spray equipment. Do not allow product to freeze.

1.6.2 Protect insulation materials from physical damage and from deterioration by moisture, soiling and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing and protecting during installation.

1.6.2.1 Do not expose to sunlight, except to extent necessary for period of installation and concealment.

1.6.2.2 Protect against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time.

1.6.2.3 Complete installation and concealment as rapidly as possible in each area of construction

1.7. Physical Properties:

1.7.0.1 R-Value (ASTM C 518):

6.5 at 1 inch
13 at 2 inches
19 at 3 inches
22 at 3.5 inches

1.7.0.2 Flammability at 4 inches (ASTM E 84):

Flame Spread Index: <25
Smoke Development: <456

1.7.0.3 Water Vapor Transmission (ASTM 96):

0.9 perm per 1.5 Inch

1.7.0.4 Air Permanence (ASTM 283):

< 0.02 L s/ m I

2. Products

2.1. Spray Foam Polyurethane Insulation

2.1.0.1 Products:

"BAYSEAL CCX, Bayer
"MD-C-200", Icynene
"Touch 'N Seal", Dap Products
"HEATLOK SOY", Demilec

3. Execution

3.1. Examination:

3.1.1 Examine all substrates, with Installer present, for condition compliance prior to installation. Correct all unsatisfactory conditions before proceeding.

3.2. Installation.

3.2.1 Comply with insulation manufacturer's written instructions applicable to products and application indicated

3.2.2 Proceed with spray polyurethane foam application only after substrate construction, substrate penetration work, and related welding and other hot work has been completed.

3.2.3 Apply insulation units to substrates by method indicated, complying with manufacturer's written instructions.

End of Section 07 21 29

Section 07 51 00

Bituminous Built-Up Roofing

V04182018

1. General

1.1. This Section includes the following:

Built-Up Roofing
Roofing Insulation

1.2. Related Sections include the following:

1.2.1 Section 07 60 00 Flashing and Sheet Metal.

1.2.2 Section 07 72 33 Roof Hatches.

1.3. System Description.

1.3.1 Wind Resistance:

1.3.1.1 Comply with the requirements of the Authority Having Jurisdiction.

1.3.1.2 Publix's Minimum Requirement: Factory Mutual "Class 1-90" wind resistance.

1.3.1.3 Comply with all of the requirements for a Factory Mutual approved installation, including but not limited to all Loss Prevention data sheets for roofing and/or the wind uplift pressures as calculated per ASCE 7-10 which ever is the more stringent.

1.3.2 Fire Performance:

1.3.2.1 Minimum Requirement: Underwriters Laborator[illegible]"Class C".

1.3.2.2 For stores located in a Fire District provide [illegible]ers Laboratories "Class A".

1.3.3 Materials used shall be listed in the lates[illegible]ition of the Factory [illegible] Approval Guide. Categories are:

Membrane Mate[illegible]
Insulation
Insulation Faste[illegible]
[illegible]ress Plates
Steel Deck
[illegible]her materials wh[illegible] applicable

1.4. Submittals:

1.4.1 Submit LO[illegible] with [illegible]ction 01 33 00 Submittal Procedures This is to indicate [illegible]aller[illegible]ng of the specified roofing systems, and the qualification[illegible]quired[illegible]

1.4.2 [illegible]als on S[illegible]: Provide do[illegible] stating that materials comply with [illegible]ts, [illegible]luding certifica[illegible]d delivery logs for bulk materials, and reco[illegible]ting for softening point, flash point, evt, and other quality control [illegible] required

1.5. Quality Assurance

1.5.1 Installer (Roofer):

1.5.1.1 A single Installer (Roofer) shall perform the work of this Section, the extent of which is described above. Roofer shall be a Firm specializing in Built-Up Roofing System work for at least 5 years, and be capable of showing successful installations similar to the work required for this project.

1.5.1.2 The Installer shall be one who is approved by GAF/U.S. Intec as an Installer qualified to perform work eligible for the Manufacturer's Fifteen Year No Dollar Limit Warranty.

1.5.1.3 The Installer shall be one of the Roofing Contractors approved by the Publix roofing steering team at the time of bidding. Contact the regional Publix construction manager for the current approved list.

1.5.1.4 Provide primary products, including each type of Roofing Sheet (Felt), Bitumen, Insulation, and Vapor Flow Retarder (if any) produced or privately labeled by the same single Manufacturer.

1.5.1.5 Provide secondary products which are acceptable to Manufacturer of primary products.

1.5.2 Inspections:

1.5.2.1 Publix Construction Field Supervisors will visit the Site periodically.

1.5.2.2 Notify ASR Associates ten days before anticipated roof start.

1.5.2.3 ASR's inspectors shall make a minimum of three inspections per job. ASR's representative has full authority to stop roofing work if conditions are not in conformance with manufacturer's requirements.

1.5.3 Warranty:

1.5.3.1 All work shall be accomplished in a manner to be eligible for Manufacturer's Fifteen Year No-Dollar-Limit Warranty coverage.

1.5.3.2 While Manufacturer's Twenty Year-No-Dollar Limit Warranty is not usually required, it may be for some projects. The owner/developer must express their intent to obtain the roof warranty prior to the pre-roofing conference.

1.6. Product Handling

1.6.1 General: Handle and store roofing system products in a manner which will ensure no possibility of significant moisture pick-up. Store in a dry, well ventilated, water- proof place. Do not leave unprotected materials on roof overnight. Store rolls of felt and other sheet goods on end.

1.6.2 When materials are stored outside, they shall be placed on platforms that are raised off the ground or roof deck, and they shall be covered with waterproof coverings. Coverings that are "breathable" (such as canvas) are preferred.

1.6.3 Roofing materials shall be delivered to the Job Site just prior to roof installation when possible or stored in closed vans.

1.6.4 Roofing bitumen may be stored unprotected on the ground. However, moisture and dirt shall be removed from roofing bitumen before heating.

1.6.5 Roof Loading: Do not store materials on roof decks, nor position roofing installation equipment on roof decks, in concentrations exceeding design live loading.

1.7. Job Conditions:

1.7.1 Pre-Roofing Conference:

1.7.1.1 Approximately five working days prior to installation of Roofing System, meet at Project Site with Installer (Roofer), installers of substrate construction (decks)and other work adjoining roof system including penetrating work and roof-top units and representatives of other trades directly concerned with performance of roofing system, including Publix Representative.

1.7.1.2 Review requirements (Contract Documents), Submittals, status of coordinating work, availability of materials and installation facilities, proposed installation schedule, requirements for inspections and testing or certifications, proposed installation procedures. record discussion including agreement or disagreement on matters of significance.

1.7.1.3 Discuss roofing system protection requirements for construction period extending beyond roofing installation.

1.7.1.4 Furnish minutes of meeting to each participant

1.7.2 Weather Conditions: Proceed with roofing system installation only when existing and forecasted weather conditions are favorable and will allow work to proceed in accordance with requirements and recommendations of manufacturers of primary roofing system materials.

1.8. Testing By Publix Representative

1.8.1 After Substantial Completion, the Publix Consultant will conduct testing to determine watertightness of all roofing assemblies. If, in the opinion of the Consultant, the moisture content of an assembly is too high, the Contractor shall remove and replace all affected materials, and take all steps necessary to make the assembly watertight.

1.8.2 Test when ambient humidity is less than 90%. Assembly shall contain less than 8% moisture by weight.

2. Products

2.1. Roof insulation:

2.1.1 Main Roof: Insulation shall be 4" Energy Guard Polyisocyanurate roof insulation (2 layers, staggered pattern). Exception: Stores in Climate Zone 2 and Higher shall receive minimum 5" Energy Guard polyisocyanurate roof insulation (up to 6" roof insulation may be required due to building's orientation and/or climate zone).

2.1.2 Open Dock Canopy and Riser Room: Insulation shall be 1.5" Energy Guard polyisocyanurate roof insulation.

2.2. Roof insulation fasteners shall be Drill-Tec #14 pre-assembled fasteners with 3" metal stress plates. Length must be sufficient to penetrate top flute of metal deck by 3/4".

2.3. Built-Up Roof Membrane materials

2.3.1 Roof membrane (over steel deck): The following are the approved roofing membranes - Eliminator, 3 Ply, Type IV (ASTM D-2178) felts, white/light gray mineral-surfaced Polyester reinforced SBS modified bitumen Cap Sheet fully mopped with steep asphalt.

GAF/U.S. Intec Spec #PRF - PP5TP - R3 or, for locations requiring a fire rated cap sheet, #190 FR - PP5TF - R3.

2.3.2 There are no exceptions or substitutions for approved membrane or specifications.

2.3.3 Bitumen: Steep asphalt complying with ASTM D-312-78, Type IV.

2.3.4 Base Flashing Adhesive: Matrix 201.

2.3.5 Base Flashing (Granular-Surfaced Modified Bitumen): Specified Cap Sheet

2.3.6 Asphaltic Concrete Primer: Comply with ASTM D-41-78 on all exposed masory surfaces above roof line.

2.3.7 Preformed Edge Strips: Rigid asphalt impregnated organic fiber insulation or molded perlite insulation, molded to form 3 1/2" x 3 1/2" x 45 degree polyisocyanurate cant strips and tapered edge strips as shown to receive roofing ply-sheet courses and lift edges above main roofing surface.

2.3.8 Lead Flashing: 2 1/2 lb. to 4 lb. sheet of common pig lead.

2.3.9 Sealants: One part gun grade urethane sealant, ASTM C920, Type S, Grade NS, Class 25, Use A:

Bostik "Chem-Calk" 900
Pecora "Dynatrol I"
Sonolastic NP-1
GAF "Major Seal"

3. Execution

3.1. Inspection of Substrate:

3.1.1 Examine substrate surfaces to receive built-up roofing system and associated work and conditions under which roofing will be installed. Do not proceed with roofing until unsatisfactory conditions have been corrected in a [illegible]nner acceptable to Roofer.

3.1.2 Verify that flatness and fastening of metal roof decks co[illegible] the following:

3.1.2.1 Deck fastening in strict adherence to fastening patterns [illegible] in the Contract Documents.

3.1.2.2 Top Flanges: No conc[illegible] or convexity in excess of 1/16" a[illegible] 3 adjacent flanges.

3.1.2.3 Side Laps: Properly neste[illegible] and mechanically fastened.

3.1.2.4 End [illegible]: Minimum 2" la[illegible] located over and fastened to supports.

3.2. General Ins[illegible]rements:

3.2.1 Sequencing of [illegible]

3.2.1.1 Coordinat[illegible]ion of [illegible]blocking and grounds [illegible] for installation of r[illegible]em. [illegible]sure that proper thickness of solid material is [illegible]

3.2.1.2 [illegible]ere wall [illegible]shes are [illegible]led after the installation of roofing [illegible] met[illegible] materials, insu[illegible] proper measures are taken to [illegible]pport at all edges [illegible]xample: when plaster or EIFS finis[illegible]plied after installation of coping cap.)

3.2.1.3 Install ins[illegible] layers when steel deck installation has progressed to a point which [illegible] allow uninterrupted roofing operations.

3.2.1.4 Dry-in the building with ply-sheet assembly using temporary water cut-offs as necessary. Provide temporary details at curbs, in-place penetrations, parapets, roof edges, and other locations where water intrusion may be expected.

3.2.1.5 Install all sheet metal edge trim, flashings, copings, etc. before installation of cap sheet. Strip in immediately.

3.2.1.6 Repair damage to in-place ply-sheet assembly as necessary as soon after installation of sheet metal work as possible. Clean thoroughly. Notify manufacturer for pre-cap sheet inspection.

3.2.1.7 Install cap sheet over repaired ply-sheet assembly as soon as possible. Use torches or other means of assuring totally dry surface at time of application.

3.2.1.8 Maximum elapsed time of bare ply-sheet assembly exposure allowed is 30 days. Where it is anticipated that cap-sheet installation will be delayed more than 30 days, apply glaze coat.

3.2.1.9 All modified bitumen flashing shall be terminated with its associated two piece counter flashing immediately after installation.

3.2.2 Cooperate with inspection and test agencies engaged or required to perform services in connection with built-up roofing system installation.

3.2.3 Protect other work from spillage of built-up roofing materials, and prevent liquid materials from entering or clogging drains and conductors. Replace/ restore other work damaged by installation of built-up roofing system work.

3.2.4 Insurance/Code Compliance:

3.2.4.1 Install built-up roofing system for (and test where required to show) compliance with governing regulations and with the requirements of Part 1 of this Section.

3.2.4.2 Provide all connectors, fasteners, anchor straps, and other items required to conform to insurance requirements of wind-load zone where project is located.

3.2.4.3 Secure curbs and other owner supplied items which penetrate the roof membrane to the structure to resist forces required of the rest of the system.

3.2.5 Coordinate the installation of insulation, roofing sheets, flashings, stripping, coatings and surfacing, so that insulation and felts are not exposed to precipitation nor exposed overnight.

3.2.6 Provide cut-offs at end of each day's work, to cover exposed felts and insulation with a course of coated felt with joints and edges sealed with roofing cement. Remove cut-offs immediately before resuming work.

3.2.7 Asphalt Bitumen Heating: Heat and apply bitumen in accordance with Equiviscous Temperature Method ("EVT Method") as recommended by NRCA. Do not raise temperature above minimum normal fluid-holding temperature necessary to attain EVT (+25 f or +14 c, at point of application) more than one hour prior to time of application. Discard bitumen which has been held at temperature exceeding Finished Blowing Temperature (FBT) for a period exceeding 3 hours. Determine flash point, finished blowing temperature and EVT of bitumen, either by information from bitumen producer or by suitable tests, and determine maximum fire-safe handling temperature and do not exceed that temperature in heating bitumen; but in no case heat bitumen to a temperature higher than 25 f (14 c) below flash point

3.2.8 Bitumen Mopping Weights: For interply mopping, and for other mopping except as otherwise indicated, apply bitumen at an average rate of not less than 20 lbs. (+25% on a total job average basis) per roof square.

3.2.9 Glaze Coat (When required for delayed cap-sheet installation longer than 30 days): Over ply-sheet assembly, apply glaze coat at a rate of 10-12 lbs. per roof square.

3.2.10 Substrate Joint Penetrations: Do not allow bitumen to penetrate substrate joints and enter building or damage insulation.

3.2.11 At end of each days roofing installation, protect exposed edge of incomplete work, including ply sheets and insulation.

3.3. Insulation Installation:

3.3.1 General: Comply with insulation manufacturers' instructions and recommendations for the handling, installation, and bonding to substrate of insulation.

3.3.2 Do not apply hot materials to, or rest hot containers on insulation at temperatures above those recommended by insulation manufacturers.

3.3.3 Cut to fit tightly and neatly around all obstructions and roof penetrations.

3.3.4 Lay no more insulation in one day than can be covered with roofing that same day.

3.3.5 Use tapered insulation to provide crickets on the up-roof side of all curbs over 2'-0" wide.

3.3.6 FM 1-90 Assemblies: The foam insulation panels shall be mechanically attached to metal deck, through the gypsum board(if present), with Factory Mutual and U.L. approved fasteners, with its joints staggered. Subsequent layer(s), if required, shall be fully set, with their joints staggered, in hot asphalt at a nominal rate of no less than 30 lbs. per 100 sq ft. unless governing codes or regulations require total mechanical attachment. Attachment shall be in accordance with U.L., FM., and manufacturers recommendations.

3.3.7 FM 1-120 and higher Assemblies: The foam insulation panels and the subsequent layer(s) shall be mechanically attached to metal deck, through the gypsum board (if present), with specified fasteners. Apply all layers with joints staggered over layer below. Attachment shall be in accordance with U.L., FM., and manufacturers recommendations.

3.4. Roof Membrane Installation:

3.4.1 Shingling of Plies: Except as otherwise indicated, install membrane with ply sheets shingled uniformly to achieve required number of plies of membrane throughout. Shingle in proper direction to shed water on each area of roofing.

3.4.2 Broom in each ply as directed by manufacturer. Use broom approved by manufacturer.

3.4.3 Cant Strips/Tapered Edge Strips: Except as otherwise shown, install preformed 45 deg. insulation cant strips at junctures of BUR membrane with vertical surface. Provide preformed tapered edge strips at areas shown on drawings as needed to divert water.

3.4.4 Inter-Ply Sheets: Provide the number and type(s) of ply sheets (felts) indicated, lapped (shingled) amount as required to form a continuous, uniform membrane with bitumen moppings between sheets so that ply sheet does not touch ply sheet. Extend built-up roofing membrane to 2" (nominal) above top edge of cant strip and terminate.

3.4.5 All edge metal shall be installed before installation of Cap Sheet. Backwater laps are not allowed.

3.4.6 Install cap sheet in strict compliance with manufacturer's instructions.

3.4.6.1 At head laps, cut tee joints 45 degrees. Round exposed corners.

3.4.6.2 Provide additional layer of cap sheet at doors of mechanical equipment rooms and at roof hatches.

3.4.7 Membrane Flashings:

3.4.7.1 Provide 2 ply base flashing at all angle changes consiting of 1 ply of ASTM D-2178 Type IV glass felt set in hot mopping of Type IV asphalt followed by 1 ply of SBS cap sheet (same material as roofing cap sheet) set in a continuous troweling of Matrix 201. Similar to U.S. intec detail SBS5. Corners are to be flashed per details SBS 11 and SBS 12 (formerly Flex3).

3.4.7.2 At horizontal metal flanges, i.e. Gravel Guard MB, electrical and mechanical metal flanges, metal is to be primed with a D-41 primer and set in a full bed of Matrix 201. Metal flanges are to be flashed the same day they are installed with 1 ply of Intec/Flex Smooth, 6" wider than the flange being flashed, set in a continuous troweling of Matrix 201.

3.4.8 At all locations where "bleed-out" of asphalt is present, apply mineral granules which match the granules of the cap sheet to achieve 100% hiding of the asphalt. Apply granules while asphalt is warm enough to allow solid imbedment.

3.4.9 Allow for expansion of running metal flashing and edge trim which adjoins roofing.

3.4.10 Counter Flashings: Counter flashings, cap flashings, expansion joints and similar work shall be coordinated with built-up roofing work.

3.4.11 Seams: Rivet and solder all joints in gutters. Other joint[illegible] be formed for back splice plates as required. Seal with urethane [illegible]

3.5. Protection of Roofing:

3.5.1 Upon completion of roofing work [illegible] associated work) [illegible]er shall advise Contractor of recommended pr[illegible] for surveillance [illegible]ection of roofing during remainder of construct[illegible]od.

3.5.2 Installer shall repair or replace (as required) [illegible]rated or defective [illegible] found at time [illegible]ion. Installer sha[illegible]gaged by Contrac[illegible] repair d[illegible]ccurred subs[illegible] roofing installat[illegible] an[illegible] to Final Inspectio[illegible] replace th[illegible] and associated w[illegible] condition free of damage [illegible]ioration at t[illegible] Substantial [illegible]pletion.

3.6. Clean[illegible]

3.6.1 Re[illegible]ituminous markings from [illegible] surfaces in [illegible]as where finished surfa[illegible] soiled by bitumen or any [illegible] source of soiling caused by work of this S[illegible] Consult Manufacturer [illegible]commended cleaning methods and materials [illegible]nform to their advi[illegible]

3.6.2 Remove fin[illegible]aterials whic[illegible]annot successfully be cleaned, and replace with new ma[illegible] no ex[illegible] to owner

End of Section 07 51 00

Section 07 60 00

Flashing and Sheet Metal

V02212011

1. General

1.1. Scope: This Section includes all Sheet Metal Work, e.g. overflow scuppers, gutter, downspouts, gravel stop, parapet coping cap and counter flashing.

1.2. Related Sections include the following:

1.2.1 Section 07 51 00 Bituminous Built-Up Roofing.

1.2.2 Section 07 72 33 Roof Hatches.

1.3. All penetration seals are part of the Work of this Section with the following exceptions:

1.3.1 All air conditioning and ventilation ducts, hood and duct covers is work of other Sections; flashing and penetration waterproofing is work of this Section

1.3.2 All flashings for penetrations through roof membrane, insulation, flashing or other items making up the roof assembly are work of this Section.

1.3.3 All curbs for HVAC equipment, fans, vents, and fresh air intakes will be furnished by Publix and installed by the contractor installing this equipment.

1.3.4 Install all lead flashing under this Section. Supply lead flashing under this Section or other Section as appropriate for job conditions. Cooperate with all trades.

1.3.5 Equipment Houses located on the roof: All curbs and structural connections will be provided and set with the houses. Houses will be equipped with receivers for roofing work. Provide flashing and other measures to render the installations watertight.

1.4. Painting: All PVC vent penetrations will require painting for UV protection.

1.5. Submittals:

1.5.1 Letter of Intent (LOI): Information for this Section will be submitted as part of the LOI for Section 07 51 00 Bituminous Built-Up Roofing.

1.5.2 Shop drawings of flashing details will accompany the submittal package for Section 07 51 00 Bituminous Built-Up Roofing.

1.5.3 Materials on Site: Provide documents stating that materials comply with requirements, including certificates and delivery logs for bulk materials, and record on field testing for softening point, flash point, evt, and other quality control testing as required.

1.6. Quality Assurance

1.6.1 Installer (Roofer):

1.6.1.1 All Work of this Section shall be by the approved Installer of Section 07 51 00 Bituminous Built-Up Roofing.

1.6.1.2 Provide products which are acceptable to Manufacturer of primary products.

1.7. Product Handling

1.7.1 When materials are stored outside, they shall be placed on platforms that are raised off the ground or roof deck, and they shall be covered with waterproof coverings. Coverings that are "breathable" (such as canvas) are preferred.

1.7.2 Roofing materials shall be delivered to the Job Site just prior to roof installation when possible or stored in closed vans.

1.7.3 Roof Loading: Do not store materials on roof decks, nor position roofing installation equipment on roof decks, in concentrations exceeding design live loading.

2. Products

2.1. Sheet Metal

2.1.1 In general, all sheet metal items shall be fabricated from stainless steel. Use prefinished sheet metal only where required to match other work (facade) at the Center.

2.1.2 Stainless Steel

2.1.2.1 Fabricate from stainless steel sheet conforming to ASTM A666, Type 302 or 304; annealed, 1/16 hard, or 1/8 hard.

2.1.2.2 Use gauge indicated below or as permitted by SMACNA gauge recommendations.

2.1.2.3 Finish: No. 2B "bright" cold rolled finish.

2.1.3 Sheet Metal Accessory Materials:

2.1.3.1 Where available, use pre-assembled, pre-flashed accessories for all roof penetrations, gravel stops, gutters, and support assemblies.

2.1.3.2 Acceptable manufacturer:

M-Weld Divison of GAF/U.S. Intec.

2.1.3.3 Accessories

2.1.3.3.1 Edge Metal: Gravelguard MB with preformed outside and inside corners.

2.1.3.3.2 VTR flashing, Antenna Support flashing: 6" adjustable M-Vent with stainless steel draw-band.

2.1.3.3.3 Flues: Manufacturer's UL compliant insulated double wall flue flashing.

2.1.3.3.4 Penetration Seals: Chemlink "Chemcurb" polyester with 1 part pourable sealer.

2.1.4 Aluminum Wall Panels:

2.1.4.1 Provide prefinished 9/16" thick .021ga. "Fabrib" Aluminum wall panel as manufactured by Fabral.

2.1.4.2 Fasten Aluminum wall panels to 18 ga. 7/8" hat channels w/ #12 screws @ 8" o.c. horizontal and 24" o.c. vertical.

2.1.5 Solder for Sheet Metal: Except as otherwise indicated or recommended by metal Manufacturer, provide -50/50 tin/lead type (ASTM-B32) for tinning and soldering joints.

2.1.6 Fasteners: Same metal as flashing/sheet metal or other non-corrosive metal as recommended by Manufacturer.

2.1.7 Minimum Stainless Steel sheet thickness:

Downspouts	24 Ga.
Guttering	26 Ga.
FM Roll Over Hangers	10 Ga.
Gutter Space Brackets	14 Ga.
Gravel Stop	24 Ga.
Counter Flashing	24 Ga.
Rain collars	24 Ga.
Parapet Copings (<16" girth	24 Ga.
Parapet Copings (16" girth and above)	22 Ga.
Other Sheet metal items: Comply with SMACNA recommendations.	

2.2. Fabrication of Sheet Metal Accessories:

2.2.1 SMACNA and NRCA Details: Conform work with details shown and with "Architectural Sheet Metal Manual" by SMACNA. Comply with installation details of "Roofing and Waterproofing Manual" by NRCA.

2.2.2 Prefabricated units as indicated or provide standard manufactured units complying with requirements; fabricate from sheet metal indicated.

2.2.3 Provide 4" wide flanges for setting on built-up roofing membrane with concealment by composition stripping.

2.2.4 Guttering and downspouts on exterior sized as shown on drawings. Support gutters at maximum 36" o.c. and downspouts at five (5) feet on center. All joints, end caps and/or miters shall be riveted and soldered. NO CAULKING PERMITTED.

2.2.5 Penetration seals for refrigeration penetrations per detail. Verify pipe sizes prior to fabrication. Penetration seals for electrical penetrations shall have conduit soldered to base of pan. Use water-tight couplings.

2.3. Paint: The following paints will be needed for all PVC penetrations.

2.3.1 Primer: Sherwin Williams PrepRite ProBlock Latex Sealer.

2.3.2 Finish: Sherwin Williams SuperPaint Exterior Latex Satin (white).

3. Execution

3.1. General Installation Requirements:

3.1.1 Sequencing of work.

3.1.1.1 Install all sh[illegible] trim, fla[illegible], copings, etc. be[illegible] installation [illegible]ap sh[illegible]ip in im[illegible]ly.

3.1.2 Coordinate t[illegible]ation of ins[illegible], roofing [illegible] stripping, coatings a[illegible], so that insu[illegible] and felts are [illegible] to precipitation no[illegible]ed overnight.

3.1.3 [illegible]de rain collars [illegible]pitch pans, wh[illegible] stock is used as roof p[illegible]ion, and othe[illegible]ons where ne[illegible]ed. Use stainless draw bands to for[illegible]hanical seal w[illegible]llar and pipe.

3.2. Painting: Pa[illegible]xposed PVC [illegible] (after flashing and boots are in place) with one coat of specifi[illegible] and two coats of specified finish.

3.3. Clean[illegible]:

3.3.1 [illegible]lean exposed metal surfaces of substances that interfere with uniform [illegible]dation and weathering.

3.3.2 Clean and neutralize flux materials. Clean off excess solder and sealants.

3.3.3 Remove temporary protective coverings and strippable films, if any, as sheet metal flashing and trim are installed. Upon completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet seams and pieces of flashing. Maintain in a clean condition during construction.

3.3.4 Replace sheet metal flashing and trim that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

End of Section 07 60 00

Section 07 72 33

Roof Hatches

V09252015

1. General

1.1. Scope: This Section includes information pertaining to roof hatches.

1.2. Related sections include the following:

1.2.1 Section 07 51 00 Bituminous Built-Up Roofing.

1.2.2 Section 07 60 00 Flashing and Sheet Metal.

1.3. Submittals:

1.3.1 Letter Of Intent (LOI): Indicate product selection on LOI for Section 07 51 00 Bituminous Built-Up Roofing.

1.4. Quality Assurance

1.4.1 Installer (Roofer):

1.4.1.1 Installer same be same as approved for Work of Section 07 51 00 Bituminous Built-Up Roofing.

1.5. Delivery, Handling and Storage

1.5.1 Pack, handle and ship properly labeled in heavy-duty packaging to prevent damage.

2. Products

2.1. Roof Hatch: Provide aluminum roof hatch with safety pole:

2.1.1 Bilco #S-50 Aluminum Roof Hatch

2.1.2 Badcock-Davis Model BRHPA36x30S1T. For high velocity wind zones use model BRHZA36x30S1T

2.2. Execution

2.3. Installation.

2.3.1 Install according to manufacturer's written instructions. Install to resist exposure to weather without failing, rattling and leaking.

2.3.2 Safety pole should be installed to far right or far left side of opening. Do not install safety pole centered with ladder as approved.

2.3.3 Check roof hatch for proper operation. Adjust operating mechanism as required. Clean and lubricate joints and hardware.

2.4. Touch-up:

2.4.1 Touch up factory-primed surfaces with compatible primer ready for field painting in accordance with Section 09 91 00 Paints.

End of Section 07 72 33

Section 07 92 00

Joint Sealants

V02212011

1. General

1.1. Scope: This Section covers sealants for use in all locations except glazing.

1.2. Submit LOI in accordance with Section 01 33 00 Submittal Procedures.

1.3. Quality Assurance - Sealant Compatibility and Adhesion Testing: Use sealant manufacturer's standard test methods to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.

2. Products

2.1. Materials, General

2.1.1 Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.

2.1.2 Colors of Exposed Joint Sealants: Match color of materials being joined if possible. Where not possible, use color selected to provide an unobtrusive finished surface.

2.2. Elastomeric Joint Sealants

2.2.1 Use single-component urethane sealants. If unusual conditions or type of work to be accomplished makes the use of multi-component sealants desirable, contact Publix Architect.

2.2.2 Elastomeric Sealants, General: ASTM C 920.

2.2.3 Sealants for Contact with Food: Comply with 21 CFR 177.2600.

2.2.4 Single-Component Nonsag Urethane Sealant (gun-grade):

2.2.4.1 Products:

Bostik Inc.; Chem-Calk 500.
Tremco; Dymonic FC
Pecora Corporation; Dynatrol I.
Polymeric Systems, Inc.; PSI-901.

2.2.4.2 Type and Grade: S (single component) and NS (nonsag).

2.2.4.3 Class: 25.

2.2.4.4 Exposure: Use T (traffic) or NT (nontraffic).

2.2.4.5 Substrates: Uses M, A, and, as applicable to joint substrates indicated, O.

2.2.5 Single-Component Pourable Urethane Sealant:

2.2.5.1 Products:

Bostik Inc.; Chem-Calk 950.
Mameco International; Vulkem 455 SL.
Pecora Corporation; NR-201.
Polymeric Systems, Inc.; Flexiprene PSI-951.

2.2.5.2 Type and Grade: S (single component) and P (pourable)

2.2.5.3 Class: 25.

2.2.5.4 Exposure: Use T (traffic) and NT (nontraffic).

2.2.5.5 Substrates: Uses M, A, and, as applicable to joint substrates indicated, O.

2.3. Latex Joint Sealants: ASTM C 834. Use where sealant will be painted, and only where joint movement cannot occur.

2.3.1 Products:

Bostik Inc.; Chem-Calk 600.

Publix
SUPER MARKETS

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DAVID TAULBEE, RA
ARCHITECT FL REG. [illegible]18

DAVID RUBIN
ARCHITECT FL REG. [illegible]2557
[illegible] REG. 11881
SC REG. 7477
AL REG. 6234
TN REG. 103497
NC REG. 12432
VA REG. 0401017097

JOHN W. KITCHENS, PE
CIVIL/STRUCTURAL FL REG. 45277
GA REG. 020251
SC REG. 16340
AL REG. 20382
TN REG. 101507

PAUL C. HARMAN, PE
STRUCTURAL FL REG. 51959
GA REG. 27740
SC REG. 21754
AL REG. 24905
TN REG. 107882
NC REG. 39673
VA REG. 0402055022

JOHN J. CARAMALIS, PE
MECHANICAL FL REG. 43889
GA REG. 021246
SC REG. 16521
AL REG. 20581
TN REG. 108507
VA REG. 0402055478

ANTHONY CLEMENTI, PE
MECHANICAL FL REG. 54781
GA REG. 31882
SC REG. 25591
AL REG. 28469
TN REG. 111382
NC REG. 039664
VA REG. 0402056137

RAYMOND J. SIRIANNI, PE
ELECTRICAL FL REG. 54085
GA REG. 025636
SC REG. 19743
AL REG. 23065
TN REG. 108038
NC REG. 039963
VA REG. 0402055379

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PLOT DATE:
August, 21 2018

No.	Description	Date

STORE NUMBER
1687
Tattersall Park

US 280 & Highway 19
Hoover
Shelby Co., AL

48.10
V0514-2018

SIENNA LITE
~~PROJECT MANUAL~~

V07262018

PM-3

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