2.1 MATERIALS
A. Cast Stone Applications:
1. Manufacturers: Specified on construction documents
2. Product: Texture and color as indicated on drawings
3. Application: Stone Veneer.
4. Metal Lath: [2.5lb galvanized expanded metal lath] [18 gauge woven wire mesh] [3.4lb galvanized expanded rib lath].
5. Fasteners:
a. Into wood studs: minimum 1/8" shank diameter galvanized nails or minimum 3/4" crown staples of sufficient length to penetrate 1" minimum into the stud
b. Into steel studs: minimum 7/16" head diameter, corrosion resistant, self-tapping, pancake head screws of sufficient length to penetrate 3/8" minimum into the stud
6. Mortar and Grout: Mortar Mix: ASTM C 270, Type N, for above-grade load bearing and non-load bearing walls and parapet walls.
7. Weep screed as required for installation over framed construction.

PART 3 EXECUTION

3.1 INSTALLATION
A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
B. Protect finished work from rain during and for 48 hours following installation.
C. Clean in accordance with manufacturer's installation instructions.
D. Replace damaged units. Clean and protect work from damage.

END OF SECTION

DIVISION 5--METALS

SECTION 05400--COLD FORMED METAL FRAMING

PART 1 GENERAL

1.1 SUMMARY
A. Provide cold-formed metal framing.

1.2 SUBMITTALS
A. No submittals required.

1.3 QUALITY ASSURANCE
A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
B. Standards: AISI, Specification for Design of Cold-Formed Steel Structural Members.
C. Deflection Criteria for Exterior Masonry Veneer: L/600.
D. Fabrication Tolerances: 1/8 inch in 10 feet.
E. Erection Tolerances: 1/16 inch from true position.

PART 2 PRODUCTS

2.1 MATERIALS
A. Cold-Formed Metal Framing:
1. Application: Interior steel-stud walls.
2. Wall Framing: C-shaped steel studs.
3. Units 16 gauge (.0598 inch) and heavier: ASTM A 653?yield point 50?000.
4. Units 18 gauge (.0358 inch): ASTM A 653?yield point 37?000 psi.
5. Units 20 gauge (.0329 inch): ?STM A 653?yield point 33?000 psi.
6. Finish: Galvanized?ASTM A 653?G60.
7. Framing Accessories:
a. Supplementary framing.
b. Bracing?bridging?and blocking.
c. Deflection track and vertical side clips.
d. Anchors?clips?and fasteners.

PART 3 EXECUTION

3.1 INSTALLATION
A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction. Coordinate with work of other sections.
B. Comply with requirements of ASTM C 1007 for installation of steel studs and accessories and Metal Lath/Steel Framing Association Lightweight Steel Framing Systems Manual.
C. Restore damaged components. Protect work from damage.

END OF SECTION

DIVISION 5--METALS

SECTION 05500--METAL FABRICATIONS

Materials: Provide new, or best, commercial quality for purpose intended, and free from defects impairing strength, durability, and appearance.

Provide steel for miscellaneous structural framing and nonstructural framing as follows:

Structural steel: ASTM A36

Brackets, flanges, and anchors: ASTM A36

Fasteners, bolts, nuts, washers, and other fasteners conforming to appropriate Federal Specifications of type, grade, and class required. Comply with ASTM A307 for bolts of 1/2 inch or larger. Provide zinc-coated fasteners for exterior use or where built into exterior wall.

Furnish bent or otherwise custom fabricated bolts, plates, anchors, hangers, dowels, drip caps at windows, doors and brick wainscot, and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete.

Steel Pipe Railing: Fabricate steel pipe railing to comply with that shown. Interconnect railings and posts by butt-welding or welding with internal connectors. Notch ends of intersecting members to fit contour of pipe to which end is joined. Furnish inserts and other anchoring deviced connecting railing to concrete.

Anchor posts in concrete by core drilling holes not less than 5 inches deep and 3/4 inches greater than outside diameter of post. Clean holes of all loose material, insert posts and fill angular space between post and concrete with nonshrink, nonmetallic grout and anchoring cement. Leave anchorage joint exposed, wipe off surplus anchoring material and leave 1/8 inch buildup, sloped away from post.

Pipe Bollards: Fabricate pipe bollards from Schedule 80 steel pipe. Pipe to be 4 inches in diameter, filled with concrete. Set pipe 4 feet into concrete support 12 inches in diameter and 4 feet above grade.

END OF SECTION 05500

SECTION 06000
06100 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY
A. This Section includes the following:
1. Framing with dimension lumber.
2. Wood blocking and nailers.
3. Wood furring.
4. Wood sleepers.
5. Plywood backing panels.

1.2 SUBMITTALS
A. Product Data: For each type of process.
1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL
A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Factory mark each piece of lumber with grade stamp of grading agency.
2. Provide dressed lumber, S4S, unless otherwise indicated.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER
A. Preservative Treatment by Pressure Process: AWPA C2, except that lumber that is not in contact with the ground and is continuously protected from liquid water may be treated according to AWPA C31 with inorganic boron (SBX).
1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
D. Application: Treat items indicated on Drawings, and the following:
1. Wood nailers, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Wood sills, sleepers, blocking, and similar concealed members in contact with masonry or concrete.
3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
4. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 DIMENSION LUMBER FRAMING
A. Maximum Moisture Content: 19 percent.
B. Non-Load-Bearing Interior Partitions : Standard, Stud, or No. 3 grade of any species.
C. Framing Other Than Non-Load-Bearing Interior Partitions: Construction, Stud, or No. 3 grade and of any species.

2.4 MISCELLANEOUS LUMBER
A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
1. Blocking.
2. Nailers.
3. Furring.
4. Grounds.
B. For items of dimension lumber size, provide Standard, Stud, or No. 3 grade lumber with 19 percent maximum moisture content of any species.
C. For concealed boards, provide lumber with 19 percent maximum moisture content and of any species and grade:

2.5 PLYWOOD BACKING PANELS
A. Telephone and Electrical Equipment & Tile Backing Panels: DOC PS 1, Exposure 1, C-D Plugged, in thickness indicated or, if not indicated, not less than 1/2-inch (13-mm) nominal thickness.

2.6 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified.
1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M
B. Power-Driven Fasteners: NES NER-272.
C. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers.

2.7 METAL FRAMING ANCHORS
A. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
B. Galvanized Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 (Z180) coating designation.

2.8 MISCELLANEOUS MATERIALS
A. Sill-Sealer Gaskets: Glass-fiber-resilient insulation, fabricated in strip form, for use as a sill sealer; 1-inch (25-mm) nominal thickness, compressible to 1/32 inch (0.8 mm); selected from manufacturer's standard widths to suit width of sill members indicated.

PART 3 - EXECUTION

3.1 INSTALLATION
A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.
B. Framing Standard: Comply with AF & PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.
C. Metal Framing Anchors: Install metal framing to comply with manufacturer's written instructions.
D. Do not splice structural members between supports, unless otherwise indicated.
E. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
F. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
1. NES NER-272 for power-driven fasteners.
2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.
3. Table 23-II-B-1, "Nailing Schedule," and Table 23-II-B-2, "Wood Structural Panel Roof Sheathing Nailing Schedule," in ICBO's Uniform Building Code.
4. Table 2305.2, "Fastening Schedule," in BOCA's BOCA National Building Code.
5. Table 2306.1, "Fastening Schedule," in SBCCI's Standard Building Code.
6. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's International Residential Code for One- and Two-Family Dwellings.
7. Table 602.3(1), "Fastener Schedule for Structural Members," and Table 602.3(2), "Alternate Attachments," in ICC's International One- and Two-Family Dwelling Code.

3.2 PROTECTION
A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 06100

SECTION 06160 - SHEATHING

PART 4 - GENERAL

4.1 SUMMARY
A. This Section includes the following:
1. Wall sheathing.
2. Roof sheathing.
3. Building paper.

4.2 DELIVERY, STORAGE, AND HANDLING
A. Stack plywood and other panels flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.

PART 5 - PRODUCTS

5.1 WOOD PANEL PRODUCTS, GENERAL
A. Plywood: DOC PS 1.

5.2 WALL SHEATHING
A. Plywood Wall Sheathing: As indicated on construction documents.

5.3 ROOF SHEATHING
A. Plywood Roof Sheathing: As indicated on construction documents.

5.4 FASTENERS
A. General: Provide fasteners of size and type indicated on construction documents.

5.5 WEATHER-RESISTANT SHEATHING PAPER
A. Building Paper: ASTM D 226, Type 1 (No. 15 asphalt-saturated organic felt), un-perforated.

PART 6 - EXECUTION

6.1 INSTALLATION, GENERAL
A. Securely attach to substrate by fastening as indicated, complying with the following:
1. As indicated on construction documents.
B. Coordinate sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that exclude exterior moisture.
C. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.

6.2 WOOD STRUCTURAL PANEL INSTALLATION
A. General: Comply with applicable recommendations in APA Form No. E30S, "Engineered Wood Construction Guide."
B. Fastening Methods: Fasten panels as indicated below:
1. As indicated on construction documents.

6.3 WEATHER-RESISTANT SHEATHING-PAPER INSTALLATION
A. General: Cover sheathing with weather-resistant sheathing paper as follows:
1. Cut back barrier 1/2 inch (13 mm) on each side of the break in supporting members at expansion- or control-joint locations.
2. Apply barrier to cover vertical flashing with a minimum 4-inch (100-mm) overlap, unless otherwise indicated.
B. Building Paper: Apply horizontally with a 2-inch (50-mm) overlap and a 6-inch (150-mm) end lap; fasten to sheathing with galvanized staples or roofing nails.

END OF SECTION 06160

SECTION 06176 - METAL-PLATE-CONNECTED WOOD TRUSSES

PART 7 - GENERAL

7.1 SUMMARY
A. This Section includes the following:
1. Wood roof trusses.
2. Wood truss bracing.

7.2 PERFORMANCE REQUIREMENTS
A. Structural Performance: Provide metal-plate-connected wood trusses capable of withstanding design loads within limits and under condition indicated on construction documents. Comply with requirements in TPI 1.

7.3 SUBMITTALS
A. Product Data: For metal-plate connectors, metal truss accessories, and fasteners.
B. Shop Drawings: Show fabrication and installation details for trusses.
1. Show location, pitch, span, camber, configuration, and spacing for each type of truss required.
2. Indicate sizes, stress grades, and species of lumber.
3. Indicate locations of permanent bracing required to prevent buckling of individual truss members due to design loads.
4. Indicate type, size, material, finish, design values, orientation, and location of metal connector plates.
5. Show splice details and bearing details.
6. For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

7.4 QUALITY ASSURANCE
A. Metal Connector-Plate Manufacturer Qualifications: A manufacturer that is a member of TPI and that complies with quality-control procedures in TPI 1 for manufacture of connector plates.
1. Manufacturer's responsibilities include providing professional engineering services needed to assume engineering responsibility.
2. Engineering Responsibility: Preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional engineer.
B. Fabricator Qualifications: Shop that participates in a recognized quality-assurance program that complies with quality-control procedures in TPI 1.
C. Comply with applicable requirements and recommendations of the following publications:
1. TPI 1, "National Design Standard for Metal Plate Connected Wood Truss Construction."
2. TPI DSB, "Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Trusses."
3. TPI HIB, "Commentary and Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses."
D. Wood Structural Design Standard: Comply with applicable requirements in AF & PA's "National Design Specifications for Wood Construction" and its "Supplement."

PART 8 - PRODUCTS

8.1 DIMENSION LUMBER
A. Lumber: DOC PS 20. Provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Provide dry lumber with 19 percent maximum moisture content at time of dressing.
B. Grade and Species: For truss chord and web members, provide dimension lumber of any species, graded visually or mechanically, and capable of supporting required loads without exceeding allowable design values according to AF & PA's "National Design Specifications for Wood Construction" and its "Supplement."
C. Permanent Bracing: Provide wood bracing that complies with requirements for miscellaneous lumber in Division 6 carpentry.

8.2 METAL PRODUCTS
A. Connector Plates: Fabricate connector plates to comply with TPI 1 from hot-dip galvanized steel sheet complying with ASTM A 653/A 653M; Structural Steel (SS), high-strength low-alloy steel Type A (HSLAS Type A), or high-strength low-alloy steel Type B (HSLAS Type B); G60 (Z180) coating designation; and not less than 0.036 inch (0.9 mm) thick. If retaining first option in subparagraph below, indicate design loads for metal truss accessories on Drawings.

8.3 FABRICATION
A. Assemble truss members in design configuration indicated; use jigs or other means to ensure uniformity and accuracy of assembly with joints closely fitted to comply with tolerances in TPI 1. Position members to produce design camber indicated.
1. Fabricate wood trusses within manufacturing tolerances in TPI 1.
B. Connect truss members by metal connector plates located and securely embedded simultaneously in both sides of wood members by air or hydraulic press.

PART 9 - EXECUTION

9.1 INSTALLATION
A. Install wood trusses only after supporting construction is in place and is braced and secured.
B. If trusses are delivered to Project site in more than one piece, assemble trusses before installing.
C. Hoist trusses in place by lifting equipment suited to sizes and types of trusses required, exercising care not to damage truss members or joints by out-of-plane bending or other causes.
D. Install and brace trusses according to TPI recommendations and as indicated.
E. Anchor trusses securely at bearing points; use metal truss tie-downs or floor truss hangers as applicable. Install fasteners through each fastener hole in truss accessories according to manufacturer's fastening schedules and written instructions.
F. Securely connect each truss ply required for forming built-up girder trusses.
G. Install and fasten permanent bracing during truss erection and before construction loads are applied. Anchor ends of permanent bracing where terminating at walls or beams.
1. Install bracing to comply with Division 6 Section Carpentry.
2. Install and fasten strong-back bracing vertically against vertical web of parallel-chord floor trusses at centers indicated.
H. Install wood trusses within installation tolerances in TPI 1.
I. Do not cut or remove truss members.
J. Replace wood trusses that are damaged or do not meet requirements.

END OF SECTION 06176

SECTION 06402 - INTERIOR ARCHITECTURAL WOODWORK

PART 10 - GENERAL

10.1 SUMMARY
A. This Section includes the following:
1. Interior trim.
2. Interior frames and jambs.
3. Plastic-laminate cabinets.
4. Plastic-laminate countertops.
5. Solid-surfacing-material countertops.
B. Interior architectural woodwork includes wood furring, blocking, shims, and hanging strips unless concealed within other construction before woodwork installation.

10.2 SUBMITTALS
A. Product Data: For solid-surfacing material and cabinet hardware and accessories. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
C. Samples:

1. Plastic-laminates, for each type, color, pattern, and surface finish.
2. Thermoset decorative panels, for each type, color, pattern, and surface finish.
3. Solid-surfacing materials.

10.3 QUALITY ASSURANCE
A. Installer Qualifications: Fabricator of woodwork.
B. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural Woodwork Quality Standards, WI's "Manual of Millwork."

10.4 PROJECT CONDITIONS
A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

PART 11 - PRODUCTS

11.1 WOODWORK FABRICATORS
A. Fabricators: Subject to compliance with requirements, provide interior architectural woodwork by one of the following:

11.2 MATERIALS
A. Wood Species and Cut for Transparent Finish: As indicated on construction documents.
B. Wood Products:
1. Hardboard: AHA A135.4.
2. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1.
C. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper complying with LMA SAT-1.
D. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or, if not indicated, as required by woodwork quality standard.
E. Solid-Surfacing Material: Homogeneous solid sheets of filled plastic resin complying with ISSFA-2.
1. Available Manufacturers: As indicated on construction documents.

11.3 CABINET HARDWARE AND ACCESSORIES
A. General: Provide cabinet hardware and accessory materials associated with architectural woodwork, except for items specified in Division 8 Section.
B. Hardware: As indicated on construction documents.

11.4 MISCELLANEOUS MATERIALS
A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln-dried to less than 15 percent moisture content.
B. Adhesives, General: Do not use adhesives that contain urea formaldehyde.

11.5 FABRICATION
A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scribing, trimming, and fitting.
1. Interior Woodwork Grade: As indicated on construction documents.
2. Shop cut openings to maximum extent possible. Sand edges of cutouts to remove splinters and burrs. Seal edges of openings in countertops with a coat of varnish.
3. Install glass to comply with applicable requirements in Division 8 Section "Glazing" and in GANA's "Glazing Manual." For glass in wood frames, secure glass with removable stops.
B. Interior Trim:
1. For transparent-finished trim items wider than available lumber, use veneered construction. Do not glue for width.
2. Back-out or groove backs of flat trim members and kerf backs of other wide, flat members, except for members with ends exposed in finished work.
3. Assemble casings in plant except where limitations of access to place of installation require field assembly.
C. Plastic-Laminate Cabinets:
1. AWI Type of Cabinet Construction: As indicated on construction documents.
D. Plastic-Laminate Countertops:
1. High-Pressure Decorative Laminate: As indicated on construction documents.
E. Solid-Surfacing-Material Countertops:
1. Solid-Surfacing-Material: As indicated on construction documents.

11.6 SHOP FINISHING
A. Finish architectural cabinetry at fabrication shop. Defer only final touchup, cleaning, and polishing until after installation.
B. Transparent Finish: As indicated on construction documents.

PART 12 - EXECUTION

12.1 INSTALLATION
A. Before installation, condition woodwork to average prevailing humidity conditions in installation areas. Examine shop-fabricated work for completion and complete work as required, including removal of packing and back-priming.
B. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for fabrication of type of woodwork involved.
C. Install woodwork level, plumb, true, and straight to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm). Shim as required with concealed shims.
D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
E. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.

F. Interior Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Fill gaps, if any, between top of base and wall with plastic wood filler, sand smooth, and finish same as wood base if finished.
G. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.
H. Countertops: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop. Caulk space between backsplash and wall with sealant specified in Division 7 Section "Joint Sealants."

END OF SECTION 06402

DIVISION 7--THERMAL AND MOISTURE PROTECTION

SECTION 07210--BUILDING INSULATION

Perimeter Rigid Insulation: Provide extruded polystyrene board insulation as manufactured by the Dow Chemical Company. Board to be Type HI density, with closed cells and with integral high density skin.

On vertical surfaces, set units in adhesive applied in accordance with manufacturer's instructions. Use type of adhesive recommended by manufacturer of insulation. Protect from damage during backfill operations. Fit panels tightly together for minimum joint.

Coat insulation exposed to view in finished work with cementitious coating. Install coating strictly in accordance with coating manufacturer's instruction. Apply coating approximately 3/16 inch thick. Texture surface with a paint roller.

General Building Insulation: Blanket insulation to be unfaced, mineral fiber with thermosetting resins, Type I. Mineral fiber shall be manufactured from glass.

Apply insulation units complying with manufacturer's recommendations. Install blanket insulation in wood stud walls. Bond units to substrate with adhisive or use mechanical anchorage to provide permanent placement.

Loose Insulation: Same as General Building Insulation. Fill cracks and voids around frames and blocking and other voids in exterior wall and voids around wood cants, curbs, and blocking in and about the roof with loose insulation. Wedge in place corners and intersections befor sheeting of exterior, completely filling voids.

Sound Attenuating Insulation: Sound insulation shall be as manufactured by Owens-Corning Fiberglas, FIBERGLAS NOISE BARRIER BATTS. Install in wood stud walls and ceilings where indicated on the drawings. Fit insulation tightly between stud members.

Vapor Barrier: Vapor barrier shall be a 4 mil thick, polyethylene sheet. Install vapor barrier on the inside face of the wall and bottom face of roof trusses. Locate edge joints over framing. Lap joints and staple as necessary to hold in place. Tape seams. Protect barrior from damage. Repair holes and tears with tape, or replace.

Roof Insulation: Provide and install roof insulation system in strict accordance with manufacturers specifications. Manufacturers offering products that may be incorporated in the work include, but are not limited to, the following.

Celotex Corporation, Tampa, fl. (813) 873-4173

Related Work: Specified elsewhere, includes, but is not limited to, furnishing and installing such items as roof membrane system, wood nailers, mechanical fasteners, flashing, ect.

Material Description: Insulation system shall consist of tapered polyisocyanurate foam panels, installed to a minimum slope of 1/4" per foot, "R" value per State Code.

Product Delivery, Storage and Handling: Insulation packages shall be labeled to include material name, thermal conductance, production date and/or product code. Insulation must be kept dry at all times. The installation of DRY roof insulation is essential. Roof insulation must be protected from the weather in storage and must not be installed when there is any doubt that the installation will be covered by the complete roofing system by the end of the day.

Do not apply any roofing material when water in any form is present or proper adhesive temperature cannot be maintained.

Insulation Application: Install the flat and tapered insulation loosely over the substrate in strict accordance with the manufacturers specifications.

Start the boards from the roof drains and work tward the high point. Install tapered boards according to letters stenciled on the board. Direction is also stenciled on all boards. Stagger joints of underlayment boards from taper boards.

END OF SECTION 07210

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FLA REG. AR0015603
JOB NO. 202016

DQ GRILL & CHILL
US HWY 90 (LOT 2)
GLEN ST MARY, FL
32040

GRILL & CHILL

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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BUILDING TYPE:
DAIRY QUEEN GRILL & CHILL
CORE66
STORE No. 45961

DRAWN, CHECKED, & APPROVED BY: ADQ DESIGN-ARCHITECTURE-CONSTRUCTION (DAC) DEPARTMENT

NORTH — THIS IS "PLAN" NORTH FOR ACTUAL BUILDING ORIENTATION REFER TO SITE PLAN (BY OTHERS)

ISSUE DATE: 10/30/2020

REVISION DATE:

10/30/2020	0	ISSUE FOR CONSTRUCTION
	1	
	2	
	3	

SPECIFICATIONS
-
-

SHEET NUMBER:
A8.3