

EXTERIOR INSUL. & FINISH SYSTEM SECTION 07241
SECTION 07 24 00

- PART 1 - GENERAL**
1.1 SUMMARY
A. Provide Weather Barrier and Exterior Insulation and Finish Systems with cavity drainage system.
1.2 SUBMITTALS
A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
B. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish. Include range samples if variation of finish is anticipated.
C. Warranty: Submit manufacturer's standard warranty. Include labor and materials to repair or replace defective materials.
1.3 WARRANTY PERIOD: 10 years.
1.4 QUALITY ASSURANCE
A. Installer qualifications: Certified in writing by EIFS manufacturer to install manufacturers system using trained workers.
B. Source Limitations: Obtain EIFS through one source from a single EIFS manufacturer and from sources approved by EIFS manufacturer as compatible with system components.
C. Mock-ups: Provide mock-up as required to demonstrate quality of workmanship.
PART 2 - PRODUCTS
2.1 MATERIALS
A. EIFS: STO Therm Essence Next system
1. Manufacturers: Sto Corp.
2. Type: EIMA Class FB
3. Finish Coat: Sto Essence DPR Finish - acrylic based textured wall coating with graded marble aggregate and dirt pick-up resistance technology.
4. Base Coat: Sto Primer/Adhesive B - one component polymer modified cement based factory blended base coat.
5. Reinforcing Mesh:
a. Standard Reinforcing Mesh: Sto Mesh - nominal 4.5 oz./yd², symmetrical, interlaced open-weave glass fiber fabric with alkaline resistant coating for compatibility with EIFS materials.
b. High-Impact Mesh: Sto Armor Mat-nominal 15 oz./yd², ultra-high impact, double strand, interwoven, open-weave glass fiber fabric with alkaline resistant coating for compatibility with EIFS materials.
6. Insulation Board: Nominal 1.0 lb/ft³ Expanded Polystyrene (EPS) insulation board in compliance with ASTM E 2450 and ASTM C 578 Type I requirements.
7. Adhesive/Drainage Layer: Sto Primer/Adhesive-B - one component polymer modified cement based, factory blend adhesive. Vertically oriented adhesive ribbons.
B. Trim Accessories: Starter Track - rigid PVC plastic track Part No. STDE as furnished by Plastic Components Inc., 4051 NW 47th Terrace, Miami FL 33174 (800-521-1077)
PART 3 - EXECUTION
3.1 INSTALLATION
A. Inspect substrate and report unsatisfactory conditions in writing; beginning work means acceptance of substrate.
B. Comply with ASTM C 1347 and EIFS manufacturers written instructions for installation of EIFS as applicable to each type of substrate.
C. Comply with system manufacturer's instructions and recommendations; admixtures shall not be used. Provide reinforced base and finish coats to provide a uniform appearance. Completely cover all insulation board including edges. Provide soft joints at all changes of substrate and at intervals suggested by manufacturers and at approved locations. Install areas of special patterns where indicated on drawings. Clean and protect work.
END OF SECTION

FLUID APPLIED MEMBRANE AIR BARRIERS
SECTION 072760

- PART 1 - GENERAL**
1.1 SUMMARY
A. Provide Fluid applied air and moisture barriers.
1.2 SUBMITTALS
A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
1.3 QUALITY ASSURANCE
A. Comply with governing codes and regulations. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
B. Manufacturers requirements:
1. Manufacturer of exterior wall waterproof air barrier materials for a minimum of 30 years in North America.
2. ISO 9001:2000 certified quality system and ISO 14001:2004 certified environmental management system.
3. Warranty: Provide manufacturer's standard warranty.
PART 2 - PRODUCTS
2.1 MATERIALS
A. Primary Air Barrier Material: StoGuard with Sto Gold Coat - ready-mixed flexible spray or roller applied waterproof air barrier membrane material
B. Joint Treatments:
1. Sto Gold Filler with StoGuard Mesh: ready mixed flexible trowel or spray applied air barrier material
2. StoGuard Rapid Seal(tm) with StoGuard Mesh: moisture cure elastomeric waterproof air barrier material
3. Sto Gold Coat with StoGuard Fabric: flexible waterproof air barrier membrane material
C. Joint Reinforcements:
1. StoGuard Mesh: nominal 4.2 oz/yd² (142 g/m²) self-adhesive, flexible, symmetrical, interlaced glass fiber reinforcing mesh, with alkaline resistant coating for compatibility with Sto materials
2. StoGuard Fabric: non-woven integrally reinforced cloth reinforcement
3. StoGuard RedComer™: non-woven integrally reinforced pre-formed cloth
D. Transition Membranes:
1. Sto Gold Fill with StoGuard Mesh: ready mixed flexible trowel or spray applied air barrier material with treated glass fiber reinforcing mesh
2. StoGuard RapidSeal or StoGuard RapidSeal with StoGuard Mesh: moisture cure elastomeric waterproof air barrier material with treated glass fiber reinforcing mesh (where applicable)
3. Sto VaporSeal with StoGuard Fabric: flexible waterproof air barrier membrane material with non-woven integrally reinforced cloth
4. StoGuard Tape: self adhering rubberized asphalt tape with polyester fabric facing
E. Primers:
1. StoGuard Primer: rubber resin emulsion primer for use with StoGuard Tape to enhance adhesion and allow installation down to 35 degrees F (1.7 degrees C).
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. Provide full height and thickness over entire area, tightly fitting under penetrations.
B. Coordinate work with other trades to ensure air barrier continuity with connections at foundation, floor lines, flashings, lintels and shelf angles, openings and penetrations such as pipes, vents, windows and doors, masonry anchors, rafters or beams, and joints in construction, projections such as decks and balconies, and roof lines.
C. Rough opening protection: Install transition membrane in and around rough opening. Refer to STO details and applicable product bulletins.
D. Sealing Joints: Install joint treatment material with application recommendation over sheathing joints. Refer to Sto detail 20.00a for applicable Sto detail 20.00a bulletins.
E. Transitions: Install air barrier accessory materials (with reinforcement where applicable), or auxiliary material at transition areas at foundation, floor lines, flashings, lintels and shelf angles, openings and penetrations at pipes, vents, windows and doors, masonry anchors, rafters or beams, joints in construction, projections such as decks and balconies, and roof line. Refer to Sto Tech Hotline No. 0211-BSC and applicable Sto product bulletins.
F. Install cladding within 180 days of waterproof air barrier installation.
G. Protect installed air and moisture barriers.
END OF SECTION

METAL WALL PANELS
SECTION 074215

- PART 1 - GENERAL**
1.1 SUMMARY
A. Provide manufactured metal wall panels.
1.2 SUBMITTALS
A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
B. Warranty: Submit manufacturer's standard warranty. Include labor and materials to repair or replace defective materials.
1.3 WARRANTY PERIOD: 10 year finish IAW AAMA - 2605.

2. Warranty Period: 10 year panel.
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.
PART 2 - PRODUCTS
2.1 MATERIALS
A. Metal Wall Panels:
1. Material Manufacturer: Alpic Materials by Mitsubishi Plastics Composites America, Inc.
a. 3mm Alpic prefinished panels.
2. Supplier/Fabricator: NuLock Exterior
3. Concealed fasteners.
4. Translucent Panels: Polyester plastic.
a. Standard: ASTM D 3847 Type CG (limited flammability type).
5. Panel Supports and Anchors:
a. Wall Brts: C or Z shaped sections 7/16 gauge (.0548 inch) steel/Shop painted.
b. Flange and Sag Bracing: 1/6 gauge (.0548 inch) steel/Shop-painted.
c. Base and Sill Angles: 1/4 gauge (.1247 inch) galvanized steel.
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. Restore damaged components and finishes. Clean and protect work from damage.
END OF SECTION

- SECTION 07500**
PART ONE - GENERAL
1.01 SCOPE
A. The work of this section includes furnishing and installing single-ply membrane over roof insulation over wood roof deck of Restaurant building and single-ply membrane over plywood sheathing back surface of parapets (no insulation).
B. Wood nailers, plywood, and parapet sheathing shall be furnished and install as part of Section 06100.
C. Wood equipment supports are furnished under Section 06100 and installed under this Section 07500.
1.02 SYSTEM
A. DURO-LAST 28" TAB Mechanically attached Single Ply Membrane Roofing System as manufactured by DURO-LAST INC. 300 484 5876, in accordance with the Drawings, manufacturers detail drawings, instructions, materials descriptions, and other information stated herein.
B. Roofing System consists of membrane, fasteners, mastic, adhesives, pre-material, parapet, parapet, stock, and vent sections, and other related approved products necessary for the proper and warrantable installation of the System.
C. All components of the installed System shall be products of the membrane manufacturer or shall be approved in writing as acceptable by the membrane manufacturer prior to their use with the System.
D. Furnish and install roof insulation.

- 1.03 INSTALLER: The DURO-LAST Roofing System, insulation and parapet membrane shall be furnished and installed by an authorized DURO-LAST Dealer/Contractor.
1.04 SUBMITTALS: The authorized Dealer/Contractor shall submit shop drawings for ordering, manufacturing and final inspection of the Systems as required to obtain the specified warranty. Drawings shall include all information which may affect the suitability and installation of the System.
1.05 WARRANTY: Provide manufacturer's 15 year Labor and Material Warranty (exclusive of insulation). Installation shall be in compliance with requirements for warranty compliance by an authorized manufacturer's representative per current inspection policies.
1.06 TEMPORARY POWER: Consistent seaming is required. Provide portable generator or any other items required to achieve a constant supply of adequate power to be heat welding devices.

- PART TWO - MATERIALS**
2.01 MEMBRANE: .050in PVC polymer blend polyester reinforced roofing membrane, white in color. ASTM D-4434.
2.02 RIGID INSULATION: Multiple layers as required to provide R-20 of Rigid polyisocyanurate foam core with organic/inorganic facer sheets nominal thickness (including facer) as indicated on the Drawings AC Foam II as manufactured by ATLAS ENERGY PRODUCTS.
2.02A RIGID SUBSTRATE: Install 1/4" DENSDECK FIBRE over Staggered layers of Rigid Roof Insulation as recommended by Manufacturer Instructions.
2.03 SEAMING: Heat welded.
2.04 FASTENERS: DURO-LAST DURO-DATED FASTENERS TM for Roofing and membrane fasteners.
DURO-LAST INSTALLATION LATER: 3" round plastic stress plates for DURO-LAST POLYPLATE. 2" round plastic stress plates for membrane installation.
DURO-LAST UNFINISHED STEEL SCREWS: As suggested by manufacturer for high wind locations at termination and trim fasteners locations.
2.05 PLASTIC ADHESIVES SEALANT/CAULK: Shall be furnished by the membrane manufacturer.
2.06 PENETRATION POKKET: Pre-molded unit filler and pourable sealer shall be furnished by membrane manufacturer.

- 2.07 OTHER SPECIALTIES: Factory pre-molded units as required to accomplish the Work shown.
2.08 PROTECTION PADS: 1/4 x 30 x 60 by DURO-LAST. Provide adhesive approved by DURO-LAST for PROTECTION Pads.
PART THREE - EXECUTION
3.01 EXECUTION: Delivery storage handling surface preparation and installation of all materials shall be performed in accordance with manufacturers printed instructions.
3.02 DELIVERY: The complete Roofing System and related materials shall be delivered to the job site in original packaging and with shipping labels intact. Containers shall be labeled with manufacturer's/suppliers name product name and identification. Material damaged in shipping handling or storage shall not be used.
3.03 PREPARATION OF SURFACES: Examine all surfaces on which or against which this work is to be applied. Correct any defects discovered which could be detrimental to the proper installation of this work. Have all surfaces clean and dry before starting installation.
3.04 WOOD NAILERS: Shall be fastened in such a manner that they resist 180 pounds of force per foot of nailer in any direction. Fasteners used to attach wood nailers shall be spaced no greater than 18 inches apart.
3.05 INSULATION INSTALLATION: Insulation products shall be neatly filled to the roof deck and its penetrations. No gap exceed 1/4 in width. Cover roof deck with insulation board secured to roof deck with DURO-LAST-approved roof insulation fasteners of approved length spaced at 12" o.c. at perimeter and at a ratio of not less than 1-1/4" in field but no fewer than 8 in a 4x8' sheet. Keep insulation dry before and after installation. Lay only as much insulation as can be covered by finished roofing before stopping work for the day, or before rain can occur. Additional fastener spacing may be required in high wind areas. Consult the manufacturer prior to installation for additional requirements.

- 3.06 MEMBRANE INSTALLATION: Complete installation of membrane including mechanical attachment and heat-welded seaming over roof and fully-adhered adhesive attachment to parapet surfaces shall be in accordance with DURO-LAST requirements and recommendations.
The prefabricated roof section is positioned on the deck to expose the first securement tab. The securement tab is mechanically-fastened to the deck with approved fasteners and stress distribution plates (see above), the roof section is then unrolled and pluyled taut to remove any wrinkles exposing the second securement tab. This process is repeated until the entire roof section has been mechanically attached to the deck, including all securement tabs and all edges. The next section of roofing membrane is then positioned to provide a minimum 6" overlap the above roofing processes are repeated until the substrate is completely covered.
The edge of the 2" Poly-Plate must be installed even with the outside edge of the fastening tab.
Securement tabs must be spaced a maximum of 28inches with DURO-LAST Fasteners and Poly-Plates (see above) spaced 18" o.c. max.

PERIMETER MEMBRANE INSTALLATION

The first tab on all perimeter roof sections parallel with the roof edge or parapet wall must be between 24-36 inches from the edge of the wall.

HOT AIR WELDING

Position the membrane so as to allow an overlap of the top membrane onto the bottom membrane a minimum of 6inches. Ensure the welding area is clean and free of foreign material.

Weld the top membrane to the bottom membrane using a hand held welder or an automatic welding machine and silicone roller. A minimum 1/2" wide continuous weld is required.
All field welded seams should be inspected with a tack claw and all deficiencies repaired.

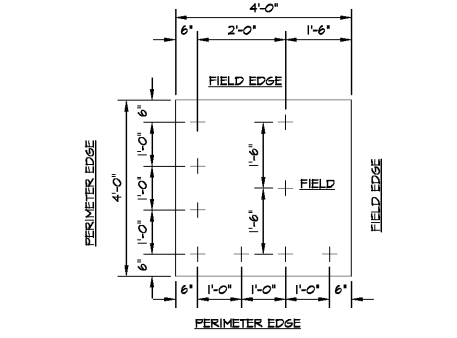
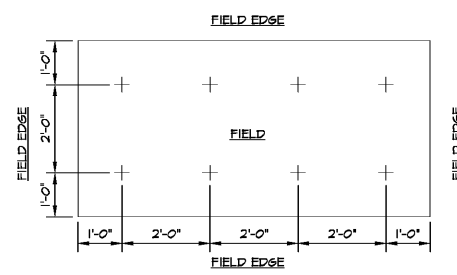
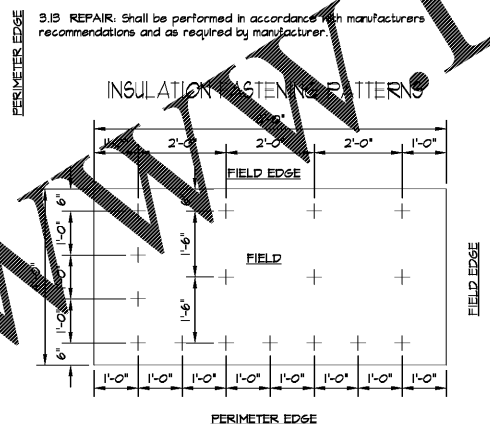
3.04 PROTECTION PADS: Install protection pads in accordance with DURO-LAST requirements using DURO-LAST adhesives. Each pad shall be installed with beads of adhesive running same direction as roof slope. Space 2" from each pad edge and 8" on center between or as suggested by DURO-LAST.

3.10 WALKPADS: Install walk pads in accordance with DURO-LAST requirements using DURO-LAST adhesives. Each pad shall be installed with beads of adhesive running same direction as roof slope. Space 2" from each pad edge and 8' on center between or as suggested by DURO-LAST.

3.11 CLEAN-UP: After the Roofing System has been installed remove all foreign matter, rubbish and scrap material from the roof in accordance with manufacturers recommendations.

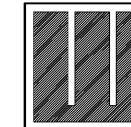
3.12 INSPECTION: The installation shall be inspected for compliance with warranty requirements by a representative of the DURO-LAST. The authorized DURO-LAST Dealer/Contractor shall accompany the inspection representative during the installation inspection.

3.13 REPAIR: Shall be performed in accordance with manufacturers recommendations and as required by manufacturer.



SECTION 07620 - SHEET METAL FLASHING AND TRIM

- PART 4 - GENERAL**
4.1 SUMMARY
A. This Section includes the following:
1. Formed roof flashing and trim.
4.2 SUBMITTALS
A. Product Data: For each product indicated.
B. Samples: For each type of sheet metal flashing and trim.
4.3 QUALITY ASSURANCE
A. Sheet Metal Flashing and Trim Standard: Comply with SMAGNA's "Architectural Sheet Metal Manual." Conform to dimensions and profiles shown unless more stringent requirements are indicated.
PART 5 - PRODUCTS
5.1 SHEET METALLIC-Coated Steel Sheet: Steel sheet metallic coated by the hot-dip process and prepared by the oil-coating process to comply with ASTM A 755/A 755M. As indicated on construction documents.
1. Exposure Finish: Apply the following coil coating:
a. High-Performance Organic Finish: Two-coat thermally cured system containing not less than 70 percent polyvinylidene fluoride resin by weight complying with proper curing and coating performance requirements of AAMA 2604, except as modified for below:
1) Humidity and Salt Spray Resistance: 1000 hours.
2) Color: As selected by Architect from manufacturer's full range.
5.2 MISCELLANEOUS MATERIALS
A. General: Provide materials and types of fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation.
B. Felt Underlayment: ASTM D 226, Type II (No. 30), asphalt-saturated organic felt, non-perforated.
1. Slip Sheet: Rosin-sized paper, minimum 3 lb/100 sq. ft. (0.16 kg/sq. m).
C. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads.
1. Exposed Fasteners: Heads matching color of sheet metal by means of plastic caps or factory-applied coating.
2. Fasteners for Flashing and Trim: Blind fasteners or self-drilling screws, gasketed with hex washer head.
3. Blind Fasteners: High-strength aluminum or stainless-steel rivets.
D. Sealing Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealing tape with release-paper backing. Provide permanently elastic, non-sag, nontoxic, non-staining tape.
E. Elastomeric Sealant: ASTM C 420 elastomeric polyurethane, polysulfide or silicone polymer sealant of type, grade, material, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.
F. Butyl Sealant: ASTM C 1511, single-component, solvent-release butyl rubber sealant, polyisobutylene plasticized, heavy bodied for hooked-type expansion joints with limited movement.
G. Epoxy Seam Sealer: Two-part, non-corrosive, aluminum seam-cementing compound.
H. Bituminous Coating: Cold-applied asphalt mastic, S9PC-PAINT 12, compounded for 15-mil (0.4-mm) dry film thickness per coat.
5.3 FABRICATION GENERAL
A. General: Custom fabricate sheet metal flashing and trim to comply with recommendations in SMAGNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated. Shop fabricate items where practicable. Obtain field measurements for accurate fit before shop fabrication.
B. Fabricate sheet metal flashing and trim without excessive oil coming, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hem.
C. Sealed Joints: Form no expansion but movable joints in metal to accommodate elastomeric sealant to comply with SMAGNA recommendations.
D. Expansion Provisions: Where lapped or baysnet-type expansion provisions in the Work cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with elastomeric or butyl sealant concealed within joints.
E. Concealed fasteners and expansion provisions where possible on exposed-to-view sheet metal flashing and trim, unless otherwise indicated.
F. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, non-corrosive metal, and in thickness not less than that of metal being secured.
5.4 ROOF DRAINAGE SHEET METAL FABRICATIONS
A. Parapet Scuppers: Fabricate scuppers of dimensions required with closure flange trim to exterior, 4-inch (100-mm) wide wall flanges to interior, and base extending 4 inches (100 mm) beyond cant or tapered strip into field of roof. Fasten gravel guard angles to base of scupper.
1. Fabricate parapet scuppers from the following material:
a. Pre-painted, Metallic-Coated Steel: 0.0276 inch (0.71 mm) thick.
5.5 ROOF SHEET METAL FABRICATIONS
A. Copings: Fabricate in minimum 46-inch (2400-mm) long, but not exceeding 10-foot- (3-m-) long sections. Fabricate joint plates of same thickness as copings. Furnish with continuous cleats to support edge of external leg and drill elongated holes for fasteners on interior leg. Miter corners, seal, and solder or weld waterproof.
1. Fabricate copings from the following material:
a. Pre-painted, Metallic-Coated Steel: 0.0296 inch (0.76 mm) thick.
PART 6 - EXECUTION
6.1 INSTALLATION GENERAL
A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
1. Torch cutting of sheet metal flashing and trim is not permitted.
B. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by fabricator or manufacturers of dissimilar metals.
C. Install exposed sheet metal flashing and trim without excessive oil coming, buckling, and tool marks.
D. Install sheet metal flashing and trim true to line and levels indicated. Provide uniform, neat seams with minimum exposure of solder, welds, and elastomeric or butyl sealant.
E. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
1. Space cleats not more than 12 inches (300 mm) apart. Anchor each cleat with two fasteners. Bend tabs over fasteners.
F. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet (3 m) with no joints allowed within 24 inches (600 mm) of corner or intersection. Where lapped or baysnet-type expansion provisions cannot be used or would not be sufficiently watertight, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with elastomeric or butyl sealant concealed within joints.
G. Fasteners: Use fasteners of sizes that will penetrate substrate not less than 1-1/4 inches (32 mm) for nails and not less than 3/4 inch (19 mm) for wood screws.
1. Galvanized or Pre-painted, Metallic-Coated Steel: Use stainless-steel fasteners.
H. Seal joints with elastomeric or butyl sealant as required for watertight construction.
6.2 ROOF DRAINAGE SYSTEM INSTALLATION
A. General: Install sheet metal roof drainage items to produce complete roof drainage system according to SMAGNA recommendations and as indicated. Coordinate installation of roof perimeter flashing with installation of roof drainage system.
B. Parapet Scuppers: Install scuppers where indicated through parapet. Continuously support scupper, set to correct elevation, and seal flange to interior wall face, over cant or tapered edge strips, and under roofing membrane.



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

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

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

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| ISSUE DATE: | 10/30/2020 |
| REVISION DATE: | |
| 10/30/2020 | ISSUE FOR CONSTRUCTION |
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SPECIFICATIONS

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SHEET NUMBER:

A8.4