

C. Front Canopy Details

- Review any outstanding details shown on the canopy drawings that pose a problem or conflict with any Publix details. (i.e. blocking details, coping details etc.).

D. Discuss Problems that arise during roofing

- Roof Hatch Cut out?
- Vent Stacks dropped in and away from drainage points
- Electrical penetrations in?
- Check sprinkler and low voltage lines near roof hatch
- Keeping roof free of debris
- Welding of Hill house
- Damage to deck
- Protecting wood blocking
- Protecting the roof - both ply felt and final cap
- Ladders and scolding on the plies or cap
- Weather issues

E. Job Site Conditions

- Access to roof
 - Ladder must be of good quality and sound condition.
 - Ladder must extend 42" above roof line and must be tied off (no metal wires - ropes only).
- Safety
 - Perimeter roof edge safety markings must be in place.
 - Roof openings must be covered with plywood or have safety rails.
 - Fire extinguishers are required at kettle and **on the roof**.
- Temperature
 - If ambient temperatures are below 45 degrees F, care shall be taken to ensure that EVT of the asphalt is maintained throughout the installation.
 - Mopping **shall not** be farther than 5 feet ahead of felt roll.
 - Brooming is mandatory during all applications, but especially critical during cold weather applications. The felts are to be broomed using only an MWeld felt tool.

F. Material Storage

- All materials must be kept dry.
- Felts stacked vertically and covered when not in use.
- ISO covered from the elements & sun when not in use to prevent curling.
- Runners shall be installed on the top bundle of insulation to promote air circulation and prevent condensation build-up.

G. Inspections

- Publix field inspectors will make random visits to the jobsite.
- ASR Associates will make a minimum of three (3) inspections per job as follows:
 - First inspection within one week of the start of new roof installation.
 - Second inspection is a 'pre-cap' sheet inspection. This inspection requires that the base roof is complete including installation of all penetrations, scuppers and penetration seals, **the cap sheet is not allowed to go on until this inspection is passed (if an extra inspection is required due to major workmanship problems on the felts, the cost of this inspection is the responsibility of the contractor).**
 - Third inspection is a final punch list (your goal should be to have a zero-item punch list).

- ASR Associates must be notified ten (10) days in advance of roof start by faxing **Project Registration Form (LOI)** to **863-583-0356**
- Report will be emailed to all parties
- An ASR Associates inspector has authority to stop roofing activities as well as the Publix inspector.
- Superintendent shall accompany all inspectors on roof when possible.
- Publix requires an infrared scan on the roof to determine if there is any moisture present in the system. This scan will be done after the completion of the job; this report will be forwarded to the parties involved for corrections to be made.

H. Roof Specification

- U.S. Intec **PRF-PP5TP-RI** or for fire rated requirements **170FR-PP5TP-RI**
- Assembly:
 - Metal Roof Deck
2 layers of 2", 2.5" or 3" (depending on location) Polyisocyanurate mechanically attached per specs and wind requirements
Eliminator Perforated Base Sheet
3 - Plies Ply IV (4) or **1 ply or Ruberoid 20**
Modified SBS cap sheet USI Intec/Flex PRF or 170FR depending on fire rating requirements
 - Asphalt ASTM D-312 Type IV.
 - All materials to be GAF/US Intec no exceptions.
 - Installation shall comply with applicable FM requirement. (1-90, 1-120, 1-135). Consult specifications for proper application for specific jobs.

I. Sheet Metal

- All sheet metal to be 302 or 304 grade Stainless Steel.
- Gauges as specified for each component.
- All Joints, miters and transitions are to be riveted and soldered (unless prefinished metal is specified - then use standing seam configuration - such as at copings).
- All metal to come in contact with asphalt shall be primed.
- **All corners and transitions to be prefabricated units from M-Weld – *includes GGMB miters @ loading dock and riser room***

J. Accessories

- All accessories to be pre-assembled and pre-flashed manufactured by M-weld division of US Intec:

Vent Penetrations	Adjustable M vent	Gravel Stops
Gravel Guard MB	Pre-molded corners	

K. Installation

- Substrate condition inspection
 - Verify flatness.
 - Verify fastening pattern of deck with structural plans.
 - Verify side lap fastening.
 - Verify proper end laps.
 - Metal roof deck must be smooth, dry and clean of all debris.
- Asphalt
 - Must maintain proper EVT for asphalt type.
 - Asphalt must be of same manufacturer throughout the entire project.
 - Type IV asphalt only.
 - Kettle / tanker must have working thermometers.

- Insulation
 - **No wet materials shall be used**; if insulation is wet it is to be **discarded from job**.
 - Joints shall be staggered and tight in all directions
 - Lay no more insulation in one day than can be covered with base sheet and all specified plies in that same day.
 - Maintain proper fastening pattern to meet FM for that location (1-90, 1-120, 1-135 etc.).
 - Use only specified fasteners either #14 or #15 preassembled screws and plates with length sufficient to penetrate the **TOP FLUTE ONLY** by a minimum of $\frac{3}{4}$ "
- Membrane
 - Cap sheet **may not** be installed until all HVAC's & Refrigeration units have been installed.
 - Uniformly shingle ply felt to maintain required number.
 - Each ply must be broomed using a proper tool - MWeld felt tool. **(NOT A BRISTLE BROOM)**.
 - Felts and cap sheet must have proper bleed out. **No more than 1" at the felts and $\frac{1}{2}$ " at the cap sheet.**
 - Bleed-out at cap sheet must be coated with granules immediately after installation.
 - Avoid asphalt displacement from all manner of traffic on fresh plies **and cap sheet.**
 - Cap sheet shall be unrolled to relax prior to mopping.
 - No backwater laps; all edge metal to be installed with Brai Flex smooth cap sheet then covered with top cap sheet.
 - **Minimize excess asphalt on top of plies and at cap sheet edges**
 - **Regularly check asphalt temperatures at point of application with an IR thermometer**
 - **Maximum elapsed time of bare ply-sheet exposure allowed is 30 days.**
- Penetrations
 - All penetrations to be done neat and temporarily sealed with Matrix 201 until permanent flashing detail is installed.
 - No penetration to be within 24" of any cant or curb.
- Flashings
 - Flashings to be installed per manufacturers details.
 - **Flashings shall be installed with trowel grade Matrix 201 and applied using a notched trowel. HOT ASPHALT APPLICATION OF BASE FLASHING IS NOT ALLOWED.**
 - Maximum flashing length shall be 6'.
 - All corners to be 'double wrapped' with 'bow ties' at all miters.
 - Plastic roof cements **are not** allowed on flashings.
 - All cant strips shall be either mopped or set in full bed of mastic (bottom & back side) - no dry installation of cant strips.
 - Flashings to be installed tight to cant strips.
 - Flashings to be nailed at a minimum 8" o.c. with a minimum 1" nail head.
 - Front canopy flashing and staging **(is canopy complete to be able to provide a water tight flashing!!??).**
 - **NEATNESS COUNTS!!**
 - **75% of all roof leaks and wet insulation on roof scan occur at flashings, i.e. curbs, front canopy flashings.**

L. Roof cleanliness

- Clean roof **daily** of all debris, wood, metal etc.
- **The roof is not a storage area for plywood, 2x4's, etc.**
- Pick up screws and nails whenever seen.
- If scaffolding is required on roof after cap sheet installation, plywood must be used under feet.

Photo Record Check List Reminder:

1. Site/Roof deck
2. S-7 loads, Sheet P-3 roof drainage calcs
3. RD-2 fastening patterns and insulation stagger pattern
4. Roof plan – if not preloaded in inspection APP
5. Sign in sheet and Business Cards

US Intec / GAF – PUBLIX PROJECT REGISTRATION PROCEDURES

The following information needs to be provided, by the installing roofing contractor 10 days prior to the application of any roofing.

1. Store Number or in the case of an industrial building the name or designation.
2. Shopping Center Name.
3. Project Address.
4. Description of roofing system to be used.
5. Roof Area / Roofing Squares.
6. Approximate start date of roofing application.
7. Date and Time of Pre-Roofing Conference.
8. Name of General Contractor.
9. Name of G.C.'s Superintendent.
10. Jobsite Address & Phone Number.

This information is to be included on the **Publix LOI form and faxed in to 863-583-0356**

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