



CONSTRUCTION DOCUMENTS----SPECIFICATIONS

Part 1 – General

SUMMARY:

- A. This section includes the following:
 - a. “MONART” concrete countertops

DEFINITIONS:

- A. “MONART” concrete countertops are defined as countertop surfaces made using concrete as the key ingredient. Further clarification will be made in forthcoming sections including; manufacturers, colors, textures and patterns, and countertop materials.

SUBMITTALS:

- A. Product data for the following:
 - a. “MONART” concrete countertops
- B. Shop Drawings for “MONART” countertops:
 - a. Include plans, elevations, and details. Show materials, finishes, edge and backsplash profiles, cutouts for plumbing fixtures and methods of joining countertops.
- C. Samples for color and finish verification
 - a. Concrete countertops and backsplashes

QUALITY ASSURANCE:

- A. Source limitations for countertops:
 - a. Obtain all concrete countertops through one source from a single manufacturer
- B. Product designations:
 - a. Drawings are to indicate size and configurations of countertops.
 - b. Colors, imbeds and finishes of countertops to be clearly identified in submittals.
- C. “MONART” countertops are to be cast offsite in a controlled environment conducive to proper curing
- D. “MONART” countertops are to be cast using an inverted custom mold process and then diamond polished utilizing a 3000 grit pad to attain finish specifications
 - a. All “MONART” countertops are to be formed, poured and polished by a Moncrieff certified designer/finisher

PROJECT CONDITIONS:

- A. **Environmental limitations:** Countertops are to be installed after cabinetry installation is completed. Installation not to begin until building is enclosed, wet-work is complete.
- B. **Established Dimensions:** Where countertops are to fit to other construction, establish dimensions for areas where countertops are to fit. Coordinate construction to ensure that actual dimensions correspond to established dimensions.

MONART[®]
concrete countertops
a lasting impression

- C. Field measurements:** Where countertops are indicated to fit to existing construction, verify dimensions of existing construction by field measurements before fabrication and indicate measurements on Shop Drawings. On new construction, verify dimensions of countertops by field measurements after base cabinets are installed but before countertop fabrication is complete. Coordinate fabrication schedule with construction progress to avoid delaying the work.

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Part 2 - Products

MANUFACTURERS:

- A. Available manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work for concrete countertop supply include:
- a. "MONART" concrete countertops by Moncrieff Construction Inc.

COLORS, TEXTURES, AND PATTERNS:

- A. Identify concrete countertop colors, textures, imbeds, patterns and finishes
- a. Color choice: (See samples provided by manufacturer)
 - b. Imbed/texture call outs: (Detailed description of decorative imbeds per design layout)
 - c. Finish detail: (Natural, polished, ground)
 - d. Edge detail: (See edge samples provided by manufacturer)
 - e. Backsplash: (See backsplash samples provided by manufacturer)

CABINET SUBSTRATE DETAIL:

- A. Cabinet tops are to be finished with 3/4-inch thick plywood fully supported at end and back.
- a. Plywood to be exterior-grade quality.

COUNTERTOP MATERIALS:

- A. Concrete
- a. 5000 PSI concrete mix
 - b. Blend of graded aggregates, Portland cement, and high quality Pozzolan
 - c. Additives include
 - i. Water reducer
 - ii. Polypropylene fibers
 - iii. Color pigmentation
- B. Reinforcement (concealed material)
- a. #4 steel rebar reinforcement placed at mid –depth per manufacturer’s requirements
 - b. Wire mesh placed at mid-depth
- C. Imbeds
- a. As called out in Colors, Textures and Patterns section

CABINET CONSTRUCTION:

- A. Cabinets to be constructed of 3/4-inch particle board (or equivalent) for support of concrete countertops
 - a. Countertop weight detail: +/-
 - i. 3/4 inch – 10 lbs per square foot
 - ii. 1 1/2 inch – 18 lbs per square foot
 - iii. 2 inch – 22 lbs per square foot
 - iv. 2 1/2 inch – 26 lbs per square foot

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Part 3 – Execution:

INSTALLATION:

- A. Install concrete countertops to base cabinets by applying silicone grout between the underside of the countertop and the top of the substrate called out in Cabinet Substrate Detail section
- B. Install backsplash by applying silicone grout between the back of the concrete backsplash and the drywall at point of installation.

ADJUSTING AND CLEANING:

- A. Adjust countertops to ensure a level surface and proper abutment at seams and corners.
 - a. Shim and adjust as required
 - b. Apply final installation application as called out above
- B. Clean countertops of all dirt and installation residue
- C. Apply final application of wax using only food grade wax designed for “MONART” concrete countertops