

CASE STUDY HOTEL



MARCRRAFT
CUSTOM HVAC SYSTEMS

LUXURY HOTEL RECEIVES TWO MARCRRAFT CUSTOM HVAC SYSTEMS FOR THEIR REMODEL

APPLICATION:..... Hotel
LOCATION:..... Chicago, IL
CUSTOM HVAC SYSTEMS:..... 2 INDOOR AHUS

MARCRRAFT TOTAL SOLUTION

In the summer of 2013, Chicago based developer Oxford Capital Group, LLC acquired the historic London Guarantee and Accident Building and began a comprehensive redevelopment. The transformation of this architecturally stunning property created a 452 room high-design, luxury lifestyle hotel.

Because of the tight spaces and constraints of the historical building, the customer selected MarCraft as a result of its design flexibility and plug-and-play integration over the unknown complications and higher costs of site-built construction. MarCraft designed and manufactured two indoor custom air handling systems for the hotel.

NOTEWORTHY

- AHU-7.1 – V-bank configuration dual temperature coils in order to meet space constraints and performance requirements.
- AHU-7.1 has multiple SA openings



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(800) 325-1303

11880 Dorsett Road,
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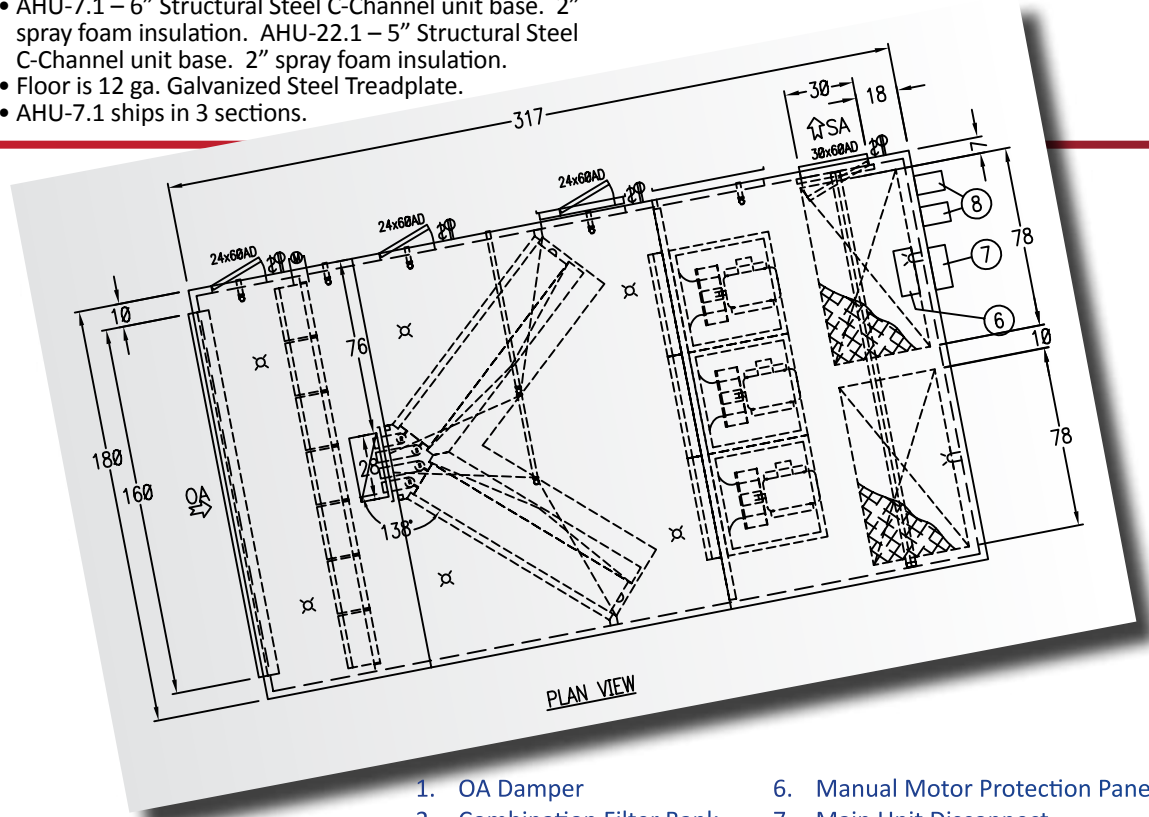
INDOOR HVAC SYSTEMS SPECIFICS:

CONSTRUCTION

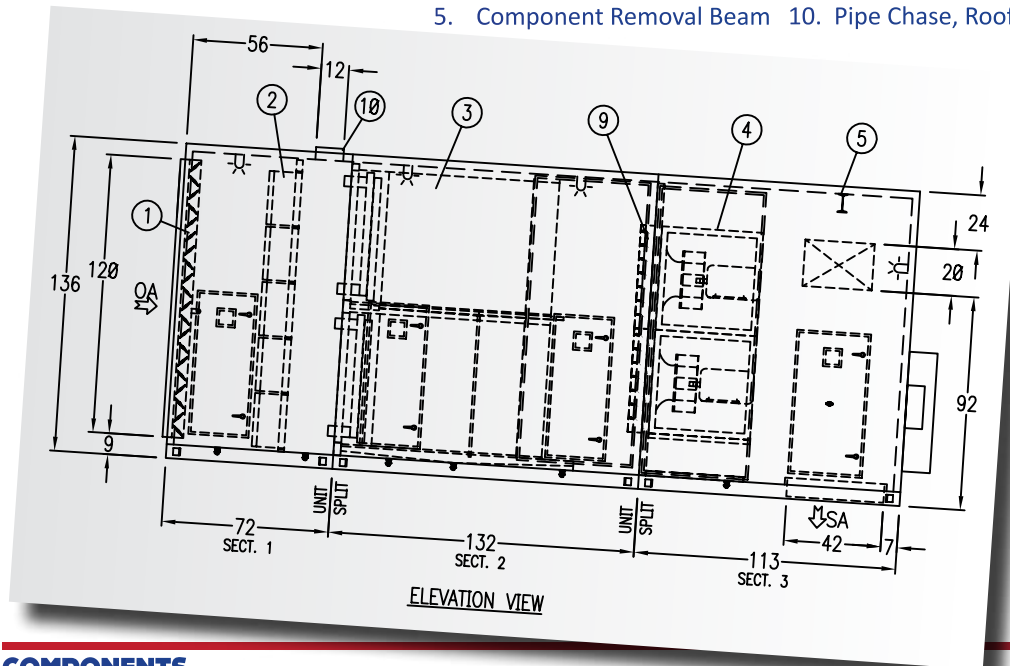
- AHU-7.1 – 3" Galvanized Steel double wall casing w/ 3.0 pcf fiberglass insulation and thermal break. AHU-22.1 – 2" Galvanized Steel double wall casing w/ 3.0 pcf fiberglass insulation and thermal break.
- AHU-7.1 – 6" Structural Steel C-Channel unit base. 2" spray foam insulation. AHU-22.1 – 5" Structural Steel C-Channel unit base. 2" spray foam insulation.
- Floor is 12 ga. Galvanized Steel Treadplate.
- AHU-7.1 ships in 3 sections.

SPECIFICATIONS

- 1 Unit (AHU-7.1) – 70,000 cfm – 100% OA
- 1 Unit (AHU-22.1) – 10,400 cfm – 100% OA



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|----------------------------|----------------------------------|
| 1. OA Damper | 6. Manual Motor Protection Panel |
| 2. Combination Filter Bank | 7. Main Unit Disconnect |
| 3. Chilled Water Coil Bank | 8. Variable Frequency Drive |
| 4. Supply Fan Assembly | 9. Supply Fan Backdraft Damper |
| 5. Component Removal Beam | 10. Pipe Chase, Roof, 12"x18" |



COMPONENTS

- OA Damper
- Combination filter bank – filter media provided by others
- Dual temperature coils – used for cooling and heating fluids depending on seasonal requirements
- AHU-7.1 – 6 SA fans with isolation back-draft dampers. AHU-22.1 – 1 SA fan with isolation back-draft dampers.
- Variable Frequency Drive with circuit breaker disconnect and bypass



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