

**B-530 STUDIO - AUDIO/VISUAL T.V., 1,000 - 2,000 S.F.**

Wheelchair accessible.

5.1 INTERNALS VERTICAL:

- Perimeter walls: Floor to structure above, metal studs with gypsum board painted, STC 52 minimum.
- Hollow metal doors and frames, sound proof type, gasketed, STC 52 minimum.
- Hollow metal frame with glazing, sound control type, STC 52 minimum.

5.2 INTERNALS, HORIZONTAL:

- Floor: Hard surface.
- Ceiling: Exposed with acoustical baffles. Metal grid for hanging equipment, light fixtures, etc.

5.3 FINISHES, SPECIAL:

- Acoustical wall treatment.

5.4 INTERIORS:

- Cyclorama.

6.0 SPECIALTIES:

- Chalk/marker board.
- Tack board.

7.0 EQUIPMENT:

- None.

8.0 SPECIAL CONSTRUCTION:

- None.

10.1 PLUMBING AND FIRE PROTECTION:

- No plumbing.
- Sprinkler system.

10.2 HVAC:

- Heating and air conditioning (additional air conditioning due to extra lighting).

11.0 ELECTRICAL:

- Lighting: Lighting grid for hanging fixtures.
- Provisions for floor-mounted luminaries.
- Patch panel (switchboard) for lighting connection.
- Dimming equipment.
- Power: AC outlets.
- Power for electrical equipment separated from power for building equipment.
- Special Systems: Audio, video, computer jacks: 2 dual jacks (data and voice), 2 jacks coaxial broadband.
- Class A Fire Alarm System, audible and visible.

**B-540 CLINIC EXAM ROOM, NON-HEALTH, 150 - 200 S.F.**

A room used for providing diagnosis, consultation, treatment or other services other than those related to medicine, dentistry or student health care. Included in this category are examination rooms, testing rooms and consultation rooms associated with psychology, law, speech and hearing etc. Wheelchair accessible.

5.1 INTERNALS VERTICAL:

- Perimeter walls floor to structures, of metal studs and gypsum board, epoxy paint.
- Doors and frames, hollow metal.

5.2 INTERNALS, HORIZONTAL:

- Floor: Hard surface, vinyl composition tile.
- Ceiling: Suspended, exposed grid, acoustical tile.

5.3 FINISHES, SPECIAL:

- None.

5.4 INTERIORS:

- Base cabinets and wall cabinets.
  - Clear floor space 30" x 48" for forward or parallel approach.
  - Forward approach maximum high reach = 48", minimum low = 15".
  - Parallel approach maximum high = 54", minimum low = 9".

6.0 SPECIALTIES:

- Chalk/marker board.
- Tack board.

7.0 EQUIPMENT:

- None.

8.0 SPECIAL CONSTRUCTION:

- None.

10.1 PLUMBING AND FIRE PROTECTION:

- Sprinkler system.

10.2 HVAC:

- Heating and air conditioning.
- Heating and ventilation (no A/C) at NAU Flagstaff.

11.0 ELECTRICAL:

- Lighting: Fluorescent fixtures, ceiling, recessed.
- Power: AC outlets.
- Special Systems: Audio, video, computer jacks: 1 dual jack (data and voice), 1 jack coaxial broadband.
- Class A Fire Alarm System, audible and visible.

**B-570 ANIMAL QUARTERS (RESEARCH MEDICAL AND BIOLOGICAL), 2,500 S.F.**

Wheelchair accessible.

5.1 INTERNALS VERTICAL:

- Perimeter walls: Floor to structure above, concrete or masonry painted - acid and solvent resistant, withstand high water pressure.
- Hollow metal doors and frames, special sizes (3'-8" wide minimum etc.) gasketed, air tight. Viewing window.

5.2 INTERNALS, HORIZONTAL:

- Floor: Hard surface - smooth, waterproof, nonabsorbent, nonslip, wear resistant, acid and solvent resistant.
- Ceiling: Plaster or gypsum board sealed and painted with a washable finish.

5.3 FINISHES, SPECIAL:

- None.

5.4 INTERIORS:

- None.

6.0 SPECIALTIES:

- None.

7.0 EQUIPMENT:

- None.

8.0 SPECIAL CONSTRUCTION:

- Minimum floor slope 1/4" per foot to drains.

10.1 PLUMBING AND FIRE PROTECTION:

- Water, drains (floor drains 4" minimum).
- Sprinkler system.

10.2 HVAC:

- Heating and air conditioning.
- + or - 2 degrees fahrenheit for any temperature within a range of 65 degrees to 85 degrees fahrenheit.
- 10 to 16 room air changes per hour.
- No recirculation of room air unless it has been filtered.
- Humidity control, relative humidity maintained year around within a range of 30 to 70 percent.
- For more precise studies: Temperature + or - 1 degrees fahrenheit, relative humidity within 5%, using 100% fresh air at all times.
- Recording devices for temperature and humidity installed in rooms.

SERIES 500 SPECIAL USE (NON-ATHLETIC)  
B-570 ANIMAL QUARTERS (RESEARCH MEDICAL AND BIOLOGICAL)

11.0 ELECTRICAL:

- Lighting: Fluorescent light fixtures.
- Power: AC outlets (explosion proof where anesthetics may be used and waterproof where water is used for cleaning).
- Burglar Alarm System connected to a central station.
- Class A Fire Alarm System, audible and visible.
- Special Systems: 1 dual jack (data and voice).

**B-571 ANIMAL QUARTERS (RESEARCH AGRICULTURE), 2,500 S.F.**

Wheelchair accessible.

5.1 INTERNALS VERTICAL:

- Perimeter walls: Concrete or masonry painted, withstand high water pressure.
- Hollow metal doors and frames, special sizes (3'-8" wide minimum etc.)

5.2 INTERNALS, HORIZONTAL:

- Floor: Hard surface - smooth, waterproof, nonabsorbent, nonslip, wear resistant.
- Ceiling: Plaster or gypsum board sealed and painted with a washable finish.

5.3 FINISHES, SPECIAL:

- None.

5.4 INTERIORS:

- None.

6.0 SPECIALTIES:

- None.

7.0 EQUIPMENT:

- None.

8.0 SPECIAL CONSTRUCTION:

- Minimum floor slope 1/4" per foot to drains.

10.1 PLUMBING AND FIRE PROTECTION:

- Water, drains (floor drains 4" minimum).
- Sprinkler system.

10.2 HVAC:

- Heating and air conditioning.
- Heating and ventilating (no A/C) at NAU Flagstaff.

11.0 ELECTRICAL:

- Lighting: Fluorescent light fixtures, ceiling recessed.
- Power: AC outlets, waterproof.
- Burglar Alarm System connected to a central station.
- Class A Fire Alarm System, audible and visible.
- Special Systems: 1 dual jack (data and voice).

**B-580 GREENHOUSE (PROPAGATION), 2,500 S.F.**

Wheelchair accessible.

5.1 INTERNALS VERTICAL:

- Perimeter walls: Concrete or masonry sill height 3' - 0" (+ or -), with transparent material above.
- Metal doors and frames with glazing.

5.2 INTERNALS, HORIZONTAL:

- Floor: Hard surface concrete sealed.
- Ceiling: Transparent material.

5.3 FINISHES, SPECIAL:

- None.

5.4 INTERIORS:

- Work benches along exterior walls. Provide one wheelchair accessible station.
  - Clear floor space shall be 30" x 48".
  - Knee clearances 27" high, 30" wide and 19" deep.
  - Height of counters 28" to 34" above the finished floor.

6.0 SPECIALTIES:

- None.

7.0 EQUIPMENT:

- None.

8.0 SPECIAL CONSTRUCTION:

- Multiple compartments for separate climates.

10.1 PLUMBING AND FIRE PROTECTION:

- Water, drains.
- Water purification system (remove fluoride and chlorine, PH value of 5.0 - 6.0.)

10.2 HVAC:

- Environmental control.
- Temperature control 65 degrees fahrenheit to 85 degrees fahrenheit.
- Relative humidity 50 - 60 %.

11.0 ELECTRICAL:

- Lighting: Fluorescent fixtures, provisions for additional lighting sources, as required.
- Power: AC outlets.
- Class A Fire Alarm System, audible and visible.

**B-581 GREENHOUSE (TESTING OF PESTICIDES, CHEMICALS, ETC.), 2,500 S.F.**

Wheelchair accessible.

5.1 INTERNALS VERTICAL:

- Perimeter walls: Concrete or masonry sill height 3' - 0" (+ or -), with transparent material above.
- Metal doors and frames with glazing. Doors gasketed for air filtration control.

5.2 INTERNALS, HORIZONTAL:

- Floor: Hard surface concrete sealed.
- Ceiling: Transparent material.

5.3 FINISHES, SPECIAL:

- None.

5.4 INTERIORS:

- Work benches along exterior walls. Provide one wheelchair accessible station.
  - Clear floor space shall be 30" x 48".
  - Knee clearances 27" high, 30" wide and 19" deep.
  - Height of counters 28" to 34" above the finished floor.

6.0 SPECIALTIES:

- None.

7.0 EQUIPMENT:

- None.

8.0 SPECIAL CONSTRUCTION:

- Multiple compartments for separate climates.

10.1 PLUMBING AND FIRE PROTECTION:

- Water, drains.
- Water purification system (remove fluoride and chlorine, PH value of 5.0 - 6.0.)

10.2 HVAC:

- Environmental control.
- Temperature control 65 degrees fahrenheit to 85 degrees fahrenheit.
- Relative humidity 50 - 60 %.
- Filtering of intake and exhaust air.

11.0 ELECTRICAL:

- Lighting: Fluorescent fixtures, provisions for additional lighting sources, as required.
- Power: AC outlets.
- Class A Fire Alarm System, audible and visible.

## SERIES 500 SPECIAL USE (NON-ATHLETIC)

### B-590 CLEAN ROOM (CLASS 100), 2700 SF.

#### DESCRIPTION:

An enclosed area with carefully controlled environmental conditions for critical operations in electronics, pharmaceuticals, medicine, food processing, bioscience, aerospace and manufacturing. Classifications are by the quantity of particulate matter in the air.

#### 5.1 INTERNALS, VERTICAL:

- Perimeter Walls - Steel Studs,  
Pre-Laminated acrylic/PVC Panels.
- Hollow Metal Doors and Frames, Gasketed for Sound and Air Control.

#### 5.2 INTERNALS, HORIZONTAL:

- Floor: Raised flooring system with conductive and static dissipative vinyl.  
Perforated floor panels for straight down air flow.
- Ceiling: Suspended, with clean room mylar ceiling tiles, clean room exposed tee grid and ceiling hepa filters.

#### 5.3 SPECIAL FINISHES:

- All surfaces to be non-particulate generating.

#### 5.4 INTERIORS:

- Stainless Steel Base and Wall Cabinets.
- Two (2) areas wheelchair accessible w/clear floor space 30" x 98" for forward or parallel approach. Forward approach-max. high reach= 48"; minimum low=15". Parallel approach-max. high=54", min. low= 9".

#### 6.0 SPECIALTIES:

- None

#### 7.0 EQUIPMENT:

- None

#### 8.0 SPECIAL CONSTRUCTION:

- Airlock/Gowning Area/Air Shower

#### 9.0 CONVEYING:

- None

SERIES 500 SPECIAL USE(NON-ATHLETIC)  
B-590 CLEAN ROOM (CLASS 100), 2700 SF.

10.1 PLUMBING AND FIRE PROTECTION:

- Water, drains
- Fixtures, Stainless Steel Sinks
- Sprinkler System

10.2 HVAC:

- Heating and Air Conditioning
- Controlled air flow with laminar flow system and HEPA (High efficiency particulate air) filters for air flow straight down through perforated floor panels.
- Class 100 air flow of 70 to 90 cfm/sf. ft.

11.0 ELECTRICAL:

- Lighting - Fluorescent Light Fixtures, ceiling, recessed, non-particle creating lens.
- Power - A.C. power outlets above counters, plug mold.
- Special Systems - Audio, Video Computer Jack: 1 dual jack (data & voice) and 1 jack coaxial broadband. 1 wall telephone @ exit door.
- Class A Fire Alarm System, Audible and Visible.

SERIES 500 SPECIAL USE (NON-ATHLETIC)

B-591 CLEAN ROOM (CLASS 1000), 2700 SF.

DESCRIPTION:

An enclosed area with carefully controlled environmental conditions for critical operations in electronics, pharmaceuticals, medicine, food processing, bioscience, aerospace and manufacturing. Classifications are by the quantity of particulate matter in the air.

5.1 INTERNALS, VERTICAL:

- Perimeter Walls - Steel Studs,  
Pre-Laminated acrylic/PVC Panels with wall mounted return air grills..
- Hollow Metal Doors and Frames, Gasketed for Sound and Air Control.

5.2 INTERNALS, HORIZONTAL:

- Floor: Conductive and Static dissipative vinyl.
- Ceiling: Suspended, with clean room mylar ceiling tiles, clean room exposed tee grid and ceiling hepa filters.

5.3 SPECIAL FINISHES:

- All surfaces to be non-particulate generating.

5.4 INTERIORS:

- Stainless Steel Base and Wall Cabinets.
- Two (2) areas wheelchair accessible w/clear floor space 30" x 98" for forward or parallel approach. Forward approach-max. high reach= 48"; minimum low=15". Parallel approach-max. high=54", min. low= 9".

6.0 SPECIALTIES:

- None

7.0 EQUIPMENT:

- None

8.0 SPECIAL CONSTRUCTION:

- Airlock/Gowning Area/Air Shower

9.0 CONVEYING:

- None

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SERIES 500 SPECIAL USE(NON-ATHLETIC)  
B-591 CLEAN ROOM (CLASS 1000), 2700 SF.

10.1 PLUMBING AND FIRE PROTECTION:

- Water, drains
- Fixtures, Stainless Steel Sinks
- Sprinkler System

10.2 HVAC:

- Heating and Air Conditioning
- Controlled air flow with laminar flow system and HEPA (High efficiency particulate air) filters for air flow straight down through wall mounted return air grills..
- Class 1000 air flow of 50 to 60 air changes/hr.-min.

11.0 ELECTRICAL:

- Lighting - Fluorescent Light Fixtures, ceiling, recessed, non-particle creating lens.
- Power - A.C. power outlets above counters, plug mold.
- Special Systems - Audio, Video Computer Jack: 1 dual jack (data & voice) and 1 jack coaxial broadband. 1 wall telephone @ exit door.
- Class A Fire Alarm System, Audible and Visible.