

Part 1 General

1.1 PRECEDENCE

- .1 For Federal Government projects, Division 1 Sections take precedence over technical specifications in other Divisions of the Project Manual.

1.2 RELATED REQUIREMENTS

- .1 Not used.

1.3 REFERENCES

- .1 American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
 - .1 ASHRAE 55, Thermal Environmental Conditions for Human Occupancy.
 - .2 ASHRAE 62, Ventilation for Acceptable Indoor Air Quality.
 - .3 ASHRAE 129, Measuring Air Change Effectiveness.

1.4 HAZARDOUS MATERIALS

- .1 Provide written reports for chemical spills.
- .2 Provide copies of associated Material Safety Data Sheets (MSDS).
- .3 Provide location and layout of storage areas include:
 - .1 Location of water source.
 - .2 Location, type and size of venting equipment. Demonstrate controls and operation to Departmental Representative.
 - .3 Location and contents of spill kits including eye wash stations. Demonstrate contents, operation and use to Departmental Representative.
 - .4 Demonstration and measurements of negative pressure of storage areas.

1.5 SITE SELECTION

- .1 Provide site plan indicating location of buffer zones designed to minimize polluted run-off, where site is located near body of water.

1.6 EROSION AND SEDIMENTATION CONTROL

- .1 Provide copy of erosion control plan, including drawings with erosion and sedimentation control measures highlighted.

1.7 REDUCING SITE DISTURBANCES

- .1 Provide copies of site analysis reports regarding existing topography, drainage and vegetation.
- .2 Provide report indicating measures taken to reduce disturbances to existing topography, drainage and vegetation.

- .3 Provide site plan indicating location of native species plantings.

1.8 BUILDING ENVELOPE

- .1 Provide product specification and data sheets indicating solar heat gain coefficient of exterior glazing.
- .2 Provide written report describing incorporated methods used to eliminate thermal bridging and reducing condensation.

1.9 GENERAL BUILDING DESIGN

- .1 Anticipated life expectancy of this building is 50 years.
- .2 Anticipated number of permanent building occupants is 2.
 - .1 Number of building occupants to remain constant.

1.10 GENERAL CONSTRUCTION MATERIALS/PRACTICES

- .1 Materials and Resources
 - .1 Provide written report indicating:
 - .1 Total amount of granular road base material that was used on site and what percentage of this material was post-consumer demolition material.
 - .2 Which components of project design were reused building materials.
- .2 Construction Waste Management
 - .1 Submit copy of the waste audit and waste management workplan developed for project.
 - .2 Submit waybills for waste materials removed from site during construction along with destination point.
- .3 Recycled Content
 - .1 Provide product specification and data sheets for products containing recycled content indicating the percentage of post consumer content.
- .4 Local/Regional Materials
 - .1 Provide product specification and data sheets for locally manufactured materials installed.
- .5 Rapidly Renewable Materials
 - .1 Provide product specification and data sheets for products containing rapidly renewable materials installed.
- .6 Wood
 - .1 Provide documentation from supplier declaring that wood materials were harvested from sustainable forestry practices.
- .7 Low-Emitting Materials
 - .1 Provide MSDS sheets or testing results indicating VOC emission rates for following materials:

- .1 Adhesives.
- .2 Sealants.
- .3 Caulkings.
- .4 Paints and coatings.
- .2 Provide MSDS sheets indicating resin type for composite wood and agrifibre materials.

1.11 INSULATION

- .1 Provide product specification and data sheets indicating:
 - .1 Recycled content of each type of insulation material installed.
 - .2 Blowing agent used to expand or install insulation materials.

1.12 CEILINGS

- .1 Provide product specification sheets indicating:
 - .1 Noise reduction coefficient of installed ceiling tiles.
 - .2 Average recycled content.

1.13 PAINTS, STAINS, VARNISHES

- .1 Provide MSDS sheets for paints, stains and varnishes indicating VOC emission rate and chemical composition.

1.14 SEALANTS, ADHESIVES AND COMPOUNDS

- .1 Provide MSDS sheets for sealants, adhesives and other compounds indicating VOC emission rate and chemical composition.

1.15 HVAC EQUIPMENT

- .1 Controllability of Systems
 - .1 Provide floor plans indicating location of:
 - .1 Lighting controls.
 - .2 Operable windows.
 - .3 Individual controls for airflow, temperature, and lighting.

1.16 PLUMBING FIXTURES

- .1 Water Use Reduction
 - .1 Provide product specification and data sheets for water consuming products indicating flow/flush performance rates.

1.17 JANITORIAL SERVICES

- .1 Provide MSDS sheets for janitorial products.
- .2 Provide manufacturer's literature indicating percentage of recycled content.

- .3 Provide copy of plan for implementation of integrated pest management plan.

1.18 EXTERIOR SITE

- .1 Storm Water Management
 - .1 Provide pre-construction and post construction plans indicating:
 - .1 Grading to retain irrigation, reduce runoff and divert water from building.
 - .2 Reduction in paved area to allow storm water to seep into ground.
 - .3 Increase in vegetation.
 - .4 Water retention storage areas ponds, surface storm water retention areas and rock marshes.
 - .5 Use of grading to direct water flow.
- .2 Landscape and Exterior Design
 - .1 Provide documentation illustrating principles of xeriscaping that have been incorporated into site plan and project.
 - .2 Provide documentation regarding incorporation of integrated pest management into exterior site maintenance plan.
- .3 Water Efficient Landscaping
 - .1 Provide documentation detailing systems that have been designed to divert grey-water for landscape purposes.
 - .2 Provide site plan indicating location of cisterns, water retention ponds and other rain water collection facilities.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

.1 Not Used.

END OF SECTION