

SECTION 060530

CERTIFIED WOOD TYPES

CSI 3-PART **LONG-FORM** GUIDE SPECIFICATION  
USE FOR CONTRACT DOCUMENT (CD) SPECIFICATION ISSUES  
EDIT TO SUIT PROJECT

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Work of this Section consists of certified and sustainable hardwood and softwood timber, and includes but is not limited to the following:
1. Logs
  2. Rough cut lumber
  3. Veneer leaves
  4. Project site trees
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section. A list of those Documents and Sections include, but is not limited to the following:
1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and General Requirements, DIVISION 01 Specification Sections, apply to this Section.
  2. Products furnished or supplied under this Section but not installed under this Section.
    - a. SECTION 061003, CERTIFIED ROUGH CARPENTRY: Wood framing.
      - 1). SECTION 061300, HEAVY TIMBER
      - 2). SECTION 061500, WOOD DECKING
      - 3). SECTION 061603, CERTIFIED WOOD SHEATHING
      - 4). SECTION 061703, CERTIFIED SHOP-FABRICATED STRUCTURAL WOOD
      - 5). SECTION 061800, GLUED-LAMINATED CONSTRUCTION
    - b. SECTION 062003, CERTIFIED FINISH CARPENTRY: Millwork, molding and trim.
      - 1). SECTION 062200, MILLWORK
      - 2). SECTION 062500, PREFINISHED PANELING
      - 3). SECTION 062600, BOARD PANELING
      - 4). SECTION 066700, CLOSET AND UTILITY WOOD SHELVING
    - c. SECTION 064003, CERTIFIED ARCHITECTURAL WOODWORK: Wood casework.
      - 1). SECTION 064200, WOOD PANELING
      - 2). SECTION 064300, WOOD STAIRS AND RAILINGS
      - 3). SECTION 064400, ORNAMENTAL WOODWORK
      - 4). SECTION 064600, WOOD TRIM
      - 5). SECTION 064800, WOOD FRAMES
    - d. SECTION 085203, CERTIFIED WOOD WINDOWS
    - e. SECTION 096403, CERTIFIED WOOD FLOORING
    - f. SECTION 123200, MANUFACTURED WOOD CASEWORK
    - g. SECTION 123557, WOOD LABORATORY CASEWORK
    - h. SECTION 123619, WOOD COUNTERTOPS
    - i. SECTION 125003, CERTIFIED WOOD FURNITURE

1.2 REFERENCES

- A. Abbreviations and Acronyms per SECTION 011000, SECTION 014000, and as follows:
1. AHJ. Authority Having Jurisdiction from local, state and federal regulatory agencies.

2. CoC. Chain-of-Custody.
3. Per. In accordance with.

B. Definitions per SECTION 011000, SECTION 014000, and as follows:

1. Certified Wood: Independent third party verified wood from forests complying with responsibly managed forest standards that meet broad social, economic and environmental goals.
2. [NeLMA](#) Glossary & Abbreviations
3. NGO. Non-Governmental Organizations are democratic entities generally formed around a focused set of goals, and having no affiliation with governments or the business establishment. Some FSC NGOs include Greenpeace, various FoE chapters (Friends of the Earth), Forests and the European Union Resource Network (FERN), World Wide Fund for Nature (WWF), Rainforest Action Network (RAN), IFIA, TFT, and many more.
4. [Northern Forest](#). Timber stands that range from northern Maine, New Hampshire and Vermont, and New York's North Country, including the Adirondacks and the Tug Hill plateau.
5. Oxidation or color shifting occurs when newly exposed faces of certain wood species oxidize when exposed to atmosphere. This is noticeable in Cherry, Birch, Red Alder, Sycamore, Oak, Maple and Sweet Gum.
6. Spile Holes: Found in Sugar Maples, these hole markings are indications that the tree was tapped for sap to make maple syrup.
7. Silviculture. The science and art of conserving, cultivating and managing trees and forests. Tree stands and forests are managed for production of forest products, protection of landscape and watershed, recreation, etc. Silviculture considers in particular the sustainable production of timber and non-timber forest products, in both quantity and quality.
8. Sustainably Harvested Wood: Wood harvested from forests managed in accordance with stated environmental, social, economic, legal, forest management, and systematic validation principles such as those proffered by the Northern Forest Alliance <http://www.northernforestalliance.org/about/sustainforest.htm> and FSC [www.fsc.org/pc.html](http://www.fsc.org/pc.html).
9. Sustainable Forest Management: The UN-FF (United Nations Forum on Forests) in 2004 adopted these seven themes of sustainable forest management: Extent of forest resources; Biological diversity; Forest health and vitality; Productive functions of forest resources; Protective functions of forest resources; Socio-economic functions; and Legal, policy and institutional framework.
10. Sustainably Recycled Wood: Wood products certified by a third party to be made from reused, reclaimed or salvaged wood timbers or post-consumer wood products.

C. Referenced Standards per SECTION 014000 and as follows:

1. [ALSC](#). American Lumber Standard Committee; [www.alsc.org](http://www.alsc.org)
  - a. [Lumber Grading Rules](#)
2. [AWI](#). Architectural Woodwork Institute
  - a. AWI - Quality Standards, 8<sup>th</sup> Edition, Version 1.0, 2003.
  - b. AWI / AWMAC / WI – Architectural Woodwork Standards – 2009, 1<sup>st</sup> Edition

**NOTE: The AWS will be printed and available for distribution before August 1. The Woodwork Institute will adopt it as their official standard for work bidding after Oct 31, 2009.**

3. [CITES](#). Convention on International Trade in Endangered Species; [www.cites.org](http://www.cites.org)
4. EPA. U.S. Environmental Protection Agency; [www.epa.gov](http://www.epa.gov)
5. FSC. Forest Stewardship Council; Certified Sustainably Managed Lumber; [www.fsc.org/pc.html](http://www.fsc.org/pc.html); <http://www.fscus.org/>
  - a. Certifier: Rainforest Alliance 'SmartWood' Program. <http://www.smartwood.org>
  - b. Certifier: SCS. Scientific Certification Systems 'Forest Conservation Program' (FCP); <http://www.scscertified.com>
  - c. Certifier: BVC. Bureau Veritas Certification; <http://certification.us.bureauveritas.com/>
  - d. Certifier: Price Waterhouse Cooper LLC (PwC);

- <http://www.pwc.com/extweb/pwcpublications.nsf/docid/0cca106f2a7b9d5585256fc50051263a>
- e. Self-Withdrawn Certifier: SGS Systems & Services Certification USA;  
[http://www.us.sgs.com/forestry\\_us](http://www.us.sgs.com/forestry_us)
  6. [HMA](#). Hardwood Manufacturers Association; [www.hardwoodinfo.com](http://www.hardwoodinfo.com)
  7. ICC. International Code Council; [www.iccsafe.org](http://www.iccsafe.org)
  8. [NeLMA](#). Northeastern Lumber Manufacturers Association. [www.nelma.org](http://www.nelma.org)
  9. NHLA. National Hardwood Lumber Association, [www.natlhardwood.org](http://www.natlhardwood.org)
  10. [PEFC](#). Programme for the Endorsement of Forest Certification schemes, Geneva-based; [PEFC Annex 4](#) Chain of Custody; (SFI, CSA, and ATFS are endorsed by PEFC.)
    - a. Member: [SFI](#). Sustainable Forestry Initiative, Washington DC; [www.sfiprogram.org](http://www.sfiprogram.org)
    - b. Member: [ATFS](#). American Tree Farm System Certified; [www.treefarmssystem.org](http://www.treefarmssystem.org)
    - c. Member: [CSA](#). Canadian Standards Association; <http://certifiedwood.csa.ca>
    - d. Certifier: Bureau Veritas Certification (BVC); <http://certification.us.bureauveritas.com/>
    - e. Certifier: Price Waterhouse Coopers LLC (PwC);  
<http://www.pwc.com/extweb/pwcpublications.nsf/docid/0cca106f2a7b9d5585256fc50051263a>
  11. SPIB. Southern Pine Inspection Bureau; [www.spib.org](http://www.spib.org)
  12. USFS. USDA Forest Service; [www.na.fs.fed.us](http://www.na.fs.fed.us)
    - a. [Silvics of North America](#); Volume 1, Conifers; Volume 2, Hardwoods
  13. United States Department of Commerce Standard [PS20-99](#)
    - a. Procedures for the Development of Voluntary Product Standards
  14. USGBC. United States Green Building Council; <http://www.usgbc.org>
  15. [WJ](#). Woodworking Institute; <http://www.wicnet.org/publications/2003manual.asp>

### 1.3 ADMINISTRATIVE REQUIREMENTS

NOTE: Coordinate and edit to the correct Section number below.

#### A. Coordination per SECTION 013000 or 013100, and as follows:

1. When using kiln-drying, coordinate with kiln operator prior to cutting logs, to verify available kiln opening dates, maximum lumber sizes, and other special conditions.
  - a. Cut lumber shall be moved and stacked to air-dry or stacked in a kiln to be kiln-dried as soon as possible after sawing.
2. Coordinate most practical and convenient location for A/E professional to view sample submittal selections.
3. Coordinate certified material chain-of-custody from original material resource to project site.
  - a. Certified Tree Lots or Forest (Timber Broker and Vendor)
  - b. Lumber Yard and/or Sawmill
  - c. Air or Kiln-Dryer
  - d. Woodworker or Fabricator or Manufacturer
  - e. Project Site

NOTE: Coordinate and edit to the correct Section number below.

#### B. Sequencing: Per SECTION 011100 or 011100, and as follows:

1. Timber Harvesting to Milling Process
  - a. Select trees to harvest
    - 1). Plant replacements
  - b. Cut selected trees into logs
    - 1). Transport to grading yard
    - 2). Grade each log
    - 3). Select from graded logs
    - 4). Transport to sawmill or veneer-mill
  - c. Cut logs into rough boards

- 1). Stack to air-dry processor and/or transport to kiln-dry processor
- d. Transport dried boards to finish sawmill
  - 1). Saw and plane rough boards into S4S or S2S required shapes and lengths
  - 2). Stress grade shapes for structural use
- e. Transport to:
  - 1). Wood treatment plant for fire-resistant or rot / insect-resistant treatments.
  - 2). Fabricator or Woodworker of custom wood items
  - 3). Manufacturer of standardized wood items
  - 4). Project site to acclimatize prior to installation/erection

NOTE: Coordinate and edit to the correct Section number below.

- C. Scheduling: Per SECTION 010000 or 011100, and SECTION 013000 or 013200.

#### 1.4 SUBMITTALS

NOTE: Design professional should visit the lumberyard to view-select lumber for finished wood products to be incorporated into the Project that showcases specifically desired colors and grain patterns.

- A. Samples: Provide lumber samples of each wood species and slice or cut selected that indicates widest possible variation in color and grain patterns that may be supplied.
1. Sample Types:
    - a. Rough cut lumber
    - b. Planed lumber
    - c. Veneer leaves
- B. Quality Assurance Submittals per SECTION 014000 and as follows:
1. Certificates: Submit printed certificates or manufacturer's letterhead with manufacturer's signature certifying that each product and/or system meets each regulatory requirement, sustainability characteristic, performance requirement, design criteria, and applicable standard specified.
    - a. Certificates of Grade: Certificate of Inspection for grade-marked material by (ALSC) recognized inspection agency.
    - b. KD Certificates: Kiln-dried moisture content by (ALSC) recognized inspection agency.

NOTE: Delete the following paragraph if this is not a USGBC LEED Project.

- C. Sustainable Design (LEED) Submittals: Submit the following in accordance with the requirements of SECTION 018113, LEED REQUIREMENTS:
1. LEED Credit MR, Materials & Resources. Submit completed LEED-NC 2.2 Submittal Templates, and other required paperwork as follows:
    - a. Credit MR 7: Certificates of chain-of-custody signed by manufacturers certifying that products specified to be made from certified wood were made from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC 1.2, "Principles and Criteria." Include evidence that mill is certified for chain-of-custody by an FSC-accredited certification body.
- D. Closeout Submittals per SECTION 017000 or 017800:
1. Sustainable Design Closeout Documentation: Submit completed USGBC LEED® worksheet templates for the following credits:
    - a. MR Credit 7, FSC Certified Wood: FSC-STD-40-004 CoC required paperwork.

## 1.5 QUALITY ASSURANCE

**NOTE: Coordinate and edit to the correct Section number below.**

- A. Qualifications per 014000 or 014300 and as follows:
1. Tree Lots or Forest: Tree lot or forest owner(s) shall follow FSC or PEFC member sustainable principles as certified by an independent third-party certifier.
  2. Timber Brokers and Vendors capable of following FSC or PEFC member CoC requirements as certified by an independent third-party certifier.
  3. Lumber Yard, Air or Kiln-Dryer and Sawmill capable of following FSC or PEFC member CoC requirements as certified by an independent third-party certifier.
  4. Fabricator or Manufacturer capable of following FSC or PEFC member CoC requirements as certified by an independent third-party certifier.
  5. Woodworker / Fabricator / Manufacturer: Companies capable of following FSC or PEFC member CoC requirements as certified by an independent third-party certifier, and specializing in manufacture of wood products harvested from and with plants located:
    - a. Less than 500 miles (805 km) from the project site per LEED MR credit 7.
    - b. In the northern forest area.
    - c. In the state of Vermont.
- B. Certifications: Logs, wood planks and manufactured wood products shall be sourced from sustainably managed forests as certified by SmartWood, SCS, BVC, PwC, and displaying the FSC or PEFC or PEFC Member label.

**NOTE: USGBC currently recognizes only FSC certified wood for LEED Credits, although there are current discussions at USGBC to revise MR credit 7 to set their own benchmark standards that the various certifications then need to meet. This [link](#) is to an in-depth Feb 2008 Yale report to USGBC regarding this issue.**

**NOTE: Select the certified requirement or standard to be used below and delete the ones not selected.**

1. FSC. Forest Stewardship Council, '[Principles and Criteria](#)', [FSC-STD-40-004 CoC](#) requirements, as verified through Third-Party [Certifiers](#)
  - a. Rainforest Alliance '[SmartWood](#)' Program
  - b. SCS. Scientific Certification Systems 'Forest Conservation Program' ([FCP](#))
  - c. SGS Systems & Services Certification USA ([SGS CoC](#))
  - d. BVC. Bureau Veritas Certification ([FSC CoC](#))
2. [PEFC](#). Programme for the Endorsement of Forest Certification [schemes](#) as verified through Third-Party verification according to the [ISO 14001](#) EMS standard, and as verified through Third-Party verification of PEFC member and their certifiers as follows:

**NOTE: ATFS Logo is used only by US tree farm owners.**

- a. [ATFS](#). American Tree Farm System
- b. [SFI](#). Sustainable Forestry Initiative (USA) ([SFI CoC](#) Requirements)
  - 1). SFI Certifiers:
    - a). BVC. Bureau Veritas ([PEFC & SFI CoC](#));  
[www.certification.us.bureauveritas.com](http://www.certification.us.bureauveritas.com)
    - b). KPMG Performance Registrar Inc.; [www.kpmg.ca/performanceRegistrar](http://www.kpmg.ca/performanceRegistrar)
    - c). NSF International Strategic Registrations; [www.nsf.org](http://www.nsf.org)
    - d). PricewaterhouseCoopers LLP; [www.pwc.com/forestry](http://www.pwc.com/forestry)
    - e). QMI-SAI Global; [www.qmi-saiglobal.com](http://www.qmi-saiglobal.com)
    - f). SGS Systems & Services Certification USA; [www.sgs.com](http://www.sgs.com)
- c. [CSA](#). Canadian Standards Association (Canadian [CAN/CSA-Z809](#) standard)
  - 1). CSA Certifiers:
    - a). PricewaterhouseCoopers LLP; [www.pwc.com/forestry](http://www.pwc.com/forestry)

C. Source Limitations: Timber harvested from sustainably managed forests located:

NOTE: Chose one of the following deleting the rest..

1. Less than 500 miles (805 km) from the project site per LEED MR credit 7.
2. In the northern forest area.
3. In the state of Vermont.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery and Acceptance Requirements

1. Deliver materials to Project site in an undamaged condition, in original and undamaged bundles bearing certifier's intact labels.
2. Inspect shipped materials on delivery to ensure compliance with requirements of Contract Documents and to ensure that products are undamaged and properly protected. Reject damaged goods and accept properly ordered, protected and undamaged goods.

B. Storage and Handling Requirements

1. Shipper shall adequately protect products from soiling, damage, deterioration, and loss, handling with proper care in proportion to the fragility and hazard of each item and its finished surfaces.
2. Protect materials during shipping, handling, drying and storage, from exposure to harmful conditions including, but not limited to, weather, vandalism, extreme changes in temperature, dryness or humidity, denting, chipping, gouging, warping, peeling, moisture, construction operations, and other damage, all in accordance with fabricator's or manufacturer's recommendations.
  - a. Store certified materials separately for auditing.

C. Packaging Waste Management

1. Require manufacturers, fabricators, suppliers and shippers provide least amount of packaging and strapping that adequately and properly protects, supports and contains the items shipped, and is reusable, returnable or recyclable.

PART 2 - PRODUCTS

NOTE: The following FSC / SmartWood certified companies utilizing northern forest wood are listed by state.

2.1 FSC / [SMARTWOOD CERTIFIED COMPANIES](#) – NORTHERN FOREST AREA

Vermont

A. Allard Lumber Company, Brattleboro, VT; 802.254.4939x23; [SmartWood Certification](#)

1. Available Certified Wood: Lumber

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Black Birch	Birch: black	Betula lenta
Black cherry	Cherry	Prunus serotina
Red maple	Maple: soft	Acer rubrum
Red Oak	Oak: red	Quercus rubra
Sugar maple	Maple: hard	Acer saccharum
White ash	Ash	Fraxinus americana

B. Champlain Hardwoods, Inc., Essex Junction, VT; 802.878.5000; [SmartWood Certification](#)

1. Available Certified Wood: Lumber

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Ash	Ash	Fraxinus spp.
Beech	Beech	Fagus sylvatica
Black cherry	Cherry	Prunus serotina
Eastern white pine	Pine: Eastern White	
Maple	Maple	Acer spp.
Red Oak	Oak: red	Quercus rubra
Shagbark Hickory	Hickory	Carya ovata
Yellow birch	Birch: yellow	Betula alleghaniensis

C. Copeland Furniture, Bradford, VT; 802.222.9282; [SmartWood Certification](#)

1. Available Certified Wood: Furniture

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Black cherry	Cherry	Prunus serotina
Maple	Maple	Acer spp.
Oak	Oak	Quercus robur

D. Gagnon Lumber Inc., Pittsford, VT; 802.483.6550; [SmartWood Certification](#)

1. Available Certified Wood: Lumber, Wood Chips

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Black cherry	Cherry	Prunus serotina
Eastern white pine	Pine: white	Pinus strobus
Northern red oak	Oak: red	Quercus rubra
Red maple	Maple: soft	Acer rubrum
Sugar maple	Maple: hard	Acer saccharum
White ash	Ash	Fraxinus americana
Yellow birch	Birch: yellow	Betula alleghaniensis

E. Newport Furniture Parts Corp dba Newport Panels Corporation & Newport Gliders, Newport, VT; 802.334.5428x104; [SmartWood Certification](#)

1. Available Certified Wood: Furniture, Plywood

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Cherry		Prunus sp.
Maple	Maple	Acer spp.
Oak	Oak	Quercus spp.

F. R.K. Miles, Inc., Manchester Center, VT; 802.362.1952x614; [SmartWood Certification](#)

1. Available Certified Wood: Lumber, Plywood

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Douglas fir	Fir	Pseudotsuga menziesii
Southern Yellow Pine	Pine: Southern	Pinus elliotis
Spruce	Spruce	Picea spp.

G. [Wall/Goldfinger, Inc.](#), Northfield, VT; 802.485.6261x4985; [SmartWood Certification](#)

1. Available Certified Wood: Custom Fine Furniture

[New York \(Adirondacks & VT Border Town\)](#)

H. Residents' Committee to Protect the Adirondacks (CoC), North Creek, NY; 518.251.4257x14; [SmartWood Certification](#)

1. Available Certified Wood: Lumber, Moldings, Flooring, Furniture, Doors, Cabinets, etc.

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Ash	Ash	Fraxinus spp.
Birch	Birch	Betula spp.
Black cherry	Cherry	Prunus serotina
Butternut	Butternut	Juglans cinerea
Douglas fir	Fir	Pseudotsuga menziesii
Northern white cedar	Cedar: Eastern	Thuja occidentalis
Poplar		Populus sp.
Red Oak	Oak: red	Quercus rubra
Sugar maple	Maple: hard	Acer saccharum
Walnut		Juglans regia

I. Telescope Casual Furniture, Granville, NY; 518.642.1100; [SmartWood Certification](#)

1. Available Certified Wood: Chairs

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Ash	Ash	Fraxinus spp.
Beech	Beech	Fagus sylvatica
Hickory	Hickory	Carya spp.
Red maple	Maple: soft	Acer rubrum
Sugar maple	Maple: hard	Acer saccharum

[New Hampshire](#)

J. Boyce Highlands Inc., Concord, NH; 603.753.1042; [SmartWood Certification](#)

1. Available Certified Wood: Moldings

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Cherry		Prunus sp.
Eucalyptus		Eucalyptus urophylla
Maple	Maple	Acer spp.
Poplar		Liriodendron tulipifera
Red maple	Maple: soft	Acer rubrum
Red Oak	Oak: red	Quercus rubra
Southern Yellow Pine	Pine:Southern	Pinus elliotii

K. Carlisle Wide Plank Floors, Stoddard, NH; 303.893.3937; [SmartWood Certification](#)

1. Available Certified Wood: Flooring

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Ash	Ash	Fraxinus exelsior
Chestnut Oak	Oak: red	Quercus prinus
Elm	Elm	Ulmus spp.
Pine		Pinus maximinoi
Red Oak	Oak: red	Quercus rubra
White oak	Oak: white	Quercus alba

L. DCI, Inc., Lisbon, NH; 603.838.6544x611; [SmartWood Certification](#)

1. Available Certified Wood: Furniture

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Ash	Ash	Fraxinus spp.
Maple	Maple	Acer spp.
Northern red oak	Oak: red	Quercus rubra
Rubberwood		Hevea brasiliensis

M. HHP, Inc., Henniker, NH; 603.428.3298; [SmartWood Certification](#)

1. Available Certified Wood: Logs, Lumber, Wood Chips

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Basswood	Basswood	Tilia americana
Beech	Beech	Fagus sylvatica
Birch	Birch	Betula spp.
Cherry		Prunus sp.
Hemlock	Hemlock	Tsuga spp.
Oak	Oak	Quercus spp.
Poplar		Populus sp.
Red maple	Maple: soft	Acer rubrum
Sugar maple	Maple: hard	Acer saccharum
White ash	Ash	Fraxinus americana

N. Northland Forest Products, Inc., Kingston, NH; 603.642.3665; [SmartWood Certification](#)

1. Available Certified Wood: Lumber

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
American beech	Beech	Fagus grandifolia
Ash	Ash	Fraxinus spp.
Black cherry	Cherry	Prunus serotina
Black walnut	Walnut: black	Juglans nigra
Eastern white pine	Pine: white	Pinus strobus
Mahogany		Swietenia macrophylla
Maple	Maple	Acer spp.
Northern red oak	Oak: red	Quercus rubra
Red maple	Maple: soft	Acer rubrum
Sugar maple	Maple: hard	Acer saccharum
White ash	Ash	Fraxinus americana
White oak	Oak: white	Quercus alba
Yellow birch	Birch: yellow	Betula alleghaniensis
Yellow poplar		Liriodendron tulipifera

O. Prime Timber Company LLC and Wagner Forest Management LTD, Lyme, NH; 207.369.9759; [SmartWood Certification](#)

1. Available Certified Wood: Logs, Wood Chips, Firewood

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
American beech	Beech	Fagus grandifolia
Black spruce	Spruce	Picea mariana
Cerezo	Black cherry	Prunus serotina
Eastern hemlock	Hemlock : Eastern	Tsuga canadensis
Eastern white pine	Pine: white	Pinus strobus
Northern white cedar	Cedar: Eastern	Thuja occidentalis
Norway spruce	Spruce	Picea abies
Oak	Red Oak	Quercus rubra
Quaking aspen	Aspen	Populus tremuloides
Red maple	Maple: soft	Acer rubrum
Red pine	Pine: Red	Pinus resinosa
Silver fir	Pino Abeto	Abies alba
Sugar maple	Maple: hard	Acer saccharum
Tamarack	Larch	Larix laricina
White ash	Ash	Fraxinus americana
White birch	Birch: white	Betula papyrifera
White oak	Oak: white	Quercus alba
White spruce	Spruce	Picea glauca

Yellow birch

Birch: yellow

Betula alleghaniensis

Maine

- P. American Pride, LLC, Guilford, ME; 207.876.4600; [SmartWood Certification](#)

1. Available Certified Wood: Lumber, Flooring, Components

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Ash	Ash	Fraxinus exelsior
Northern red oak	Oak: red	Quercus rubra
Sugar maple	Maple: hard	Acer saccharum
White birch	Birch: white	Betula papyrifera
Yellow birch	Birch: yellow	Betula alleghaniensis

- Q. Domtar Industries, Inc. Woodland Mill, Baileyville, ME; 207.427.4007; [SmartWood Certification](#)

1. Available Certified Wood: Pulp, Wood Chips

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
American beech	Beech	Fagus grandifolia
Aspen	Aspen	Populus spp.
Sugar maple	Maple: hard	Acer saccharum
White birch	Birch: white	Betula papyrifera
Yellow birch	Birch: yellow	Betula alleghaniensis

- R. H. C. Haynes, Inc., Winn, ME; 207.736.3412; [SmartWood Certification](#)

1. Available Certified Wood: Logs - Various softwood and hardwood

- S. Hammond Lumber Company, Belgrade, ME; 207.495.1127; [SmartWood Certification](#)

1. Available Certified Wood: Engineered Wood, Lumber, OSB, Plywood

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Fir	Fir	Abies spp.
Hemlock	Hemlock	Tsuga spp.
Maple	Maple	Acer spp.
Pine		Pinus maximinoi
Spruce	Spruce	Picea spp.
Western red cedar		

- T. Hunter Panels, LLC, Portland, ME; 888-746-1114; [SmartWood Certification](#)

1. Available Certified Wood: Panels (Polyiso sandwich)

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Fir	Fir	Abies spp.
Loblolly	Pine: Southern yellow	Pinus taeda
White fir	Fir	Abies concolor

- U. Katahdin Forest Products, Inc., Oakfield, ME; 207.757.9342; [SmartWood Certification](#)

1. Available Certified Wood: Custom Millwork, Decking, Logs, Posts

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Northern white cedar	Cedar: Eastern	Thuja occidentalis

- V. LaValley Lumber Company, LLC, Sanford, ME; 207.324.3350; [SmartWood Certification](#)

1. Available Certified Wood: Lumber, Panels

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Douglas fir	Fir	Pseudotsuga menziesii

Southern Yellow Pine Pine:Southern Pinus elliotis

W. Timber Resource Group Inc., Farmington, ME; 207.778.8502; [SmartWood Certification](#)

1. Available Certified Wood: Logs

<u>Common Name</u>	<u>Trade Name</u>	<u>Scientific Name</u>
Aspen	Aspen	Populus spp.
Balsam fir	Fir	Abies balsamea
Beech	Beech	Fagus sylvatica
Black cherry	Cherry	Prunus serotina
Black oak	Oak: red	Quercus velutina
Eastern white pine	Pine: white	Pinus strobus
Hemlock	Hemlock	Tsuga spp.
Hickory	Hickory	Carya spp.
Ipe	Brazilian Walnut	Tabebuia serratifolia
Lapacho		Tabebuia avellanedae
Loblolly	Pine: Southern yellow	Pinus taeda
Nazareno		Peltogyne sp
Poplar		Populus sp.
Red maple	Maple: soft	Acer rubrum
Red Oak	Oak: red	Quercus rubra
Red pine	Pine: Red	Pinus resinosa
Silver maple	Maple: soft	Acer saccharinum
Spruce	Spruce	Picea spp.
Sugar maple	Maple: hard	Acer saccharum
Walnut		Juglans regia
White birch	Birch: white	Betula papyrifera
White oak	Oak: white	Quercus alba
Yellow birch	Birch: yellow	Betula alleghaniensis

2.2 DESCRIPTION

A. Regulatory Requirements

1. Timber and Lumber per US Dept. of Commerce Voluntary Standard [PS20-99](#)
2. Pressure Treated Lumber per (SPIB) Southern Pine Inspection Bureau, [www.spib.org](http://www.spib.org)

B. Sustainable Characteristics

1. Certification Programs Used:

- a. USGBC LEED Rating: Comply with project requirements intended to achieve the following Rating, as measured and documented according to the U.S. Green Building Council's LEED® Green Building Rating System, Version indicated:
  - 1). Rating: Certified
  - 2). Rating: Silver
  - 3). Rating: Gold
  - 4). Rating: Platinum
  - 5). Version: NC v. 2.2
  - 6). Version: C&S v. 2.0
  - 7). Version: EB v. 2.0
  - 8). Version: CI v. 2.0
- b. LEED MR Credit 7: FSC or Forest Stewardship Council certified wood.

2.3 PERFORMANCE / DESIGN CRITERIA

A. Performance Requirements

1. Rough Softwood Lumber: Department of Commerce / ALS Standard [PS20-99](#)
2. Structural Lumber: BOCA National Building Code, 1996, Chapter 23; Design values as specified in AFPA ND

NOTE: Language below is subject to the aesthetic and environmental judgment of the project design team and can be varied to suit.)

Lower grades, larger knots, and contrasting or no color requirements are recommended to increase the chance that a certified supplier can more completely provide certified lumber for your project and to more completely use the entire tree.

3. Finish Lumber:

NOTE: AWI is generally preferred in VT over WI. Select standards to be applied to the project and delete the ones not used.

- a. AWI 8th Edition, Grade 3, Table 100-S4.
- b. WI Manual of Millwork, Section 3; <http://www.wicnet.org/publications/2003manual.asp>
- c. [NHHLA](#) Hardwood Lumber Grades Standard Inspection
  - 1). Grade: Select & Better
  - 2). Grade: No. 1 Common
  - 3). Grade: No. 2A
  - 4). Grade: No. 2B
  - 5). Grade: No. 3A Common
  - 6). Grade: No. 3B Common
- d. [NeLMA](#) Grade 2 & Better.
- e. SEFA 8, Laboratory Furniture, recommended testing practices; [www.sefalabs.com/files/public/Sefa-8.pdf](http://www.sefalabs.com/files/public/Sefa-8.pdf)

NOTE: Select wood products and species to be applied to the project, deleting the items not used.

4. Siding: Beveled and Drop (Rustic or Barn)

NOTE: Select from one of the recommended species listed, deleting the others.

- a. White pine
- b. Ponderosa pine
- c. Western redcedar
- d. Cypress
- e. Redwood
5. Shingles (flat-grained, thick-butted, narrow) and Shakes (hand split, 100 percent heartwood); Shingles that contain only heartwood are more resistant to decay; sold in squares = 100 ft<sup>2</sup> (9 m<sup>2</sup>)

NOTE: Select from one of the recommended species listed, deleting the others.

- a. Western red cedar
- b. Northern white-cedar
- c. Redwood
- d. Cypress

6. Flooring:

NOTE: Select from one of the recommended cuts listed, deleting the other.

- a. Quartersawn
- b. Plainsawn

7. Casing and Base

B. Design Criteria

1. Project Site Trees. Timber harvested from the project building site, scheduled for removal and not acceptable for incorporating as milled lumber into the project shall be utilized as follows:
  - a. Convert using one or more of the following methods to utilize:
    - 1). Sawn into rough lumber for pallets, crates, or other usable items.
    - 2). Sawn into firewood, then stacked and covered for air-drying.
    - 3). Chipped and used for on-site mulching.
    - 4). Made into combustible wood chips or pellets for use in a wood-fired boiler plant.
  - b. Provide estimate on weight of project site trees to be harvested, in order to keep tally for job-site recycling.
2. NHLA Illustrated [Guide](#) to American Hardwood Lumber Grades

NOTE: These requirements are subject to the aesthetic and environmental judgment of the project design team and should be studied, coordinated with the standard used, and individually specified to suit.

NOTE: To utilize more of each tree specify acceptability of distinctive flaws like larger knots, pitch pockets, splits, etc. and a varied color range.

a. Allowable Defects:

NOTE: Edit knot diameter and edge to your acceptance.

NOTE: Shift items from Acceptable to Unacceptable as desired.

- 1). Sound, closed, pin and cluster knots not exceeding 3/8 inch (9.5mm) in diameter, and not within 1/2 inch (13mm) of millwork edges.
  - 2). Bird's Eye (Hard Maple)
  - 3). Tiger stripe and cross fire (Oak / Maple)
  - 4). Burl grain
  - 5). Tapping holes (Maples)
  - 6). Spalted maple
  - 7). Bird pecks
  - 8). Mineral streaks
  - 9). Ray flecking
  - 10). Worm track
  - 11). Worm hole
  - 12). Grub Holes
  - 13). Pith
  - 14). Glassworm (Ash)
  - 15). Cat's paw
  - 16). Bark pocket
  - 17). [Blue Stain](#)
  - 18). Sticker Stain
- b. Defects Not Allowed:
- 1). Gum, Sap or Pitch pockets
  - 2). Wane or Bark on outer edge
  - 3). Open and unsound knots
  - 4). Decay or Incipient rot (except spalted maple)
  - 5). Check or Air checks
  - 6). Honey comb
  - 7). Shake
  - 8). Splitting
- c. Color Variations/Darkening:
- 1). Select wood for uniform sapwood color.
  - 2). Select wood for uniform heartwood color.

- 3). Select wood for contrasting heartwood and sapwood coloring.
- 4). Aesthetic juxtaposition of heartwood/sapwood and grain patterns to be reviewed by Architect in the field.

## 2.4 CERTIFIED FOREST OPERATIONS

### A. FSC / [SmartWood Certified Resource Managers](#)

1. Vermont Timber
  - a. Essex Timber Company, LLC, Ipswich, MA; 978.356.5995; [SmartWood Forest Management Public Summary](#) (*manages old Champion International lands*)
  - b. Fountain Forestry Incorporated, Montpelier, VT; 802.223.8644; [SmartWood Forest Management Public Summary](#)
  - c. Marsh-Billings-Rockefeller National Historical Park, Woodstock, VT; 802.457.3368; [SmartWood Forest Management Public Summary](#)
  - d. Redstart Forestry, Corinth, VT; 802.434.5491; [SmartWood Forest Management Certification Assessment](#)
  - e. Vermont Family Forests, Middlebury, VT; 802.388.4969; [SmartWood Forest Management Public Summary](#)
2. New York – Adirondack Timber
  - a. Finch Paper LLC, Glens Falls, NY; 518.793.2541x5353; [SmartWood Forest Management Public Summary](#)
  - b. Langley Park Associates, Long Lake, NY; [SmartWood Forest Management Public Summary](#)
  - c. Lyme Northern Forest Fund-Chateaugay Woodlands, Vermontville, NY; 603.643.3300; [SmartWood Forest Management Public Summary](#)
  - d. Paul Smith's College, Paul Smiths, NY; 518.327.6436; [SmartWood Forest Management Public Summary](#)
  - e. Residents' Committee to Protect the Adirondacks, North Creek, NY; 518.251.4257; [SmartWood Forest Management Public Summary](#)
3. New Hampshire Timber
  - a. Lyme Northern Forest Fund, Hanover, NH; 603.643.3300; [SmartWood Forest Management Public Summary](#)
  - b. Meadowsend Timberlands Limited/The Ecosystem Management Company, New London, NH; 603.526.8686; [SmartWood Forest Management Public Summary](#)
  - c. New England Forestry Consultants, Inc. (NEFCO), Warner, NH; 866.609.6332; [SmartWood Forest Management Public Summary](#)
  - d. Wagner Forest Management, LTD., Lyme, NH; 603.795.2002; [SmartWood Forest Management Certification Assessment](#)
4. Maine Timber
  - a. Downeast Lakes Land Trust, Grand Lake Stream, ME; 207.796.2100; [SmartWood Forest Management Public Summary](#)
  - b. Hancock Land Company, Casco, ME; (207).627.7764; [SmartWood Forest Management Public Summary](#)
  - c. Two Trees Forestry, Winthrop, ME; 207.377.7196; [SmartWood Forest Management Public Summary](#)
  - d. The Trust to Conserve Northeast Forestland, Hebron, ME; 207.966.3031; [SmartWood Forest Management Public Summary](#)

NOTE: The following FSC / SCS certified companies utilizing northern forest wood are listed by state. There are no SCS certified companies from Vermont.

### B. FSC / [SCS CERTIFIED COMPANIES](#) – NORTHERN FOREST AREA

New York (Adirondacks)

1. State of New York DEC, Bureau of State Lands Management, Albany, NY; 518.402.9428; SCS-FM/COC-00104N

Maine

2. Baskahegan Company, Brookton, ME; 207.448.2224; SCS-FM/COC-00079N
3. Maine Bureau of Parks and Lands, Augusta, Maine; 207.287.7271; SCS-FM/COC-00042N
4. Mid-Maine Forestry, Warren, Maine; 207.273.4046; SCS-FM/COC-00049GN
5. Prentiss & Carlisle Management Company, Inc., Bangor, Maine; 207.942.8295; SCS-FM/COC-00103G
6. Seven Islands Land Company, Bangor, ME; 207.947.0541; SCS-FM/COC-00005N

NOTE: SGS is used primarily outside the USA. There are no FSC / SGS certified companies utilizing northern forest wood.

NOTE: BVC is used primarily outside the USA. There are no FSC / BVC certified companies utilizing northern forest wood.

C. SUSTAINABLE FORESTRY INITIATIVE, SFI CERTIFIED COMPANIES – NORTHERN FOREST AREA

1. Hancock Timber Resource Group; www.htrg.com; BVC-SFIS-164267
  - a. Northeast Kingdom Forest Legacy, VT
  - b. Victory Basin, (Northeast Kingdom) VT
  - c. Tug Hill Plateau, NY
  - d. 13-Mile Woods, NH
  - e. Pond of Safety, NH
  - f. Pondicherry, NH
  - g. Tumbledown Mountain, ME
2. Lyme Adirondack Forest Company, LLC; www.lymetimber.com; BVC-164030-A-LN
  - a. New York (Adirondacks)

D. ATFS. American Tree Farm System – NORTHERN FOREST AREA

NOTE: Owner contact information and locations of ATFS tree lots or forests are available through the state forester or consulting ATFS forester.

1. STATE FORESTERS
  - a. VT: Steve Sinclair; Dept. of Forests, Parks and Recreation, Waterbury, VT; 802.241.3677; [ssinclair@fpr.anr.state.vt.us](mailto:ssinclair@fpr.anr.state.vt.us)
  - b. NY: Robert K. Davies, NYS Dept. of Environmental Cons., Albany, NY; 518.402.9405; [rkdavies@gw.dec.state.ny.us](mailto:rkdavies@gw.dec.state.ny.us)
  - c. NH: Philip Bryce, Division of Forests & Lands, Concord, NH; 603.271.2214; [p\\_bryce@dred.state.nh.us](mailto:p_bryce@dred.state.nh.us)
  - d. ME: Alec Giffen, ME Forest Service, Augusta, ME; 207.287.2791; [Alec.Giffen@state.me.us](mailto:Alec.Giffen@state.me.us)
2. CONSULTING ATFS FORESTERS:
  - a. VT: Kathleen Wanner; VT Woodlands Association, Rutland, VT; 802.747.7900; [kwanner@vermontwoodlands.org](mailto:kwanner@vermontwoodlands.org)
  - b. NY: Liana Gooding, NY Tree Farm Office, Lima, NY; 800.836.3566; [nytreefarm@hotmail.com](mailto:nytreefarm@hotmail.com)
  - c. NH: Ann McCoy, Society for the Protection of NH Forests, Concord, NH; 603.224.9945 x32; [amccoy@spnhf.org](mailto:amccoy@spnhf.org)
  - d. ME: Mike Dann, Dixmont, ME; 207.626.0005; [Mike@swoam.org](mailto:Mike@swoam.org)

NOTE: There are no CSA certified forests in the US.

## 2.5 HARDWOOD MATERIALS

A. Provide solid wood lumber and veneers per performance requirements. Provide plain or quarter sawn lumber and sliced or rotary veneers as indicated. Do not provide finger-jointed wood unless clearly indicated in the Contract Documents. Provide sustainably managed or FSC hardwood called out by the Contract Documents from the following list of wood types:

1. Red **Alder**, ([Alnus rubra](#))
2. Ash
  - a. European or Common Ash, ([Fraxinus excelsior](#)) [link](#)
  - b. Green Ash, ([Fraxinus pennsylvanica](#))
  - c. White Ash, ([Fraxinus americana](#))
3. Aspen
  - a. Bigtooth Aspen, ([Populus grandidentata](#))
  - b. Trembling or Quaking Aspen, ([Populus tremuloides](#))
4. American **Basswood**, ([Tilia americana](#))
5. Beech
  - a. American Beech, ([Fagus grandifolia](#))
  - b. European Beech, ([Fagus sylvatica](#)) [link](#)
6. Birch
  - a. Silver Birch, ([Betula pendula](#)) [link](#)
  - b. Sweet Birch, or Black Birch or Cherry Birch, ([Betula lenta](#))
  - c. White or Paper Birch, ([Betula papyrifera](#))
  - d. Yellow Birch (Yellow sapwood), ([Betula alleghaniensis](#))
7. **Boxelder** ([Acer negundo](#))
8. American Black **Cherry**, ([Prunus serotina](#))
9. Elm
  - a. American Elm, ([Ulmus Americana](#))
  - b. Slippery Elm, ([Ulmus rubra](#)) [link](#) [link](#)
10. Hickory
  - a. Bitternut Hickory ([Carya cordiformis](#))
  - b. Pignut Hickory, ([Carya glabra](#))
  - c. Red Hickory, ([Carya ovalis](#)) [link](#)
  - d. Shagbark Hickory, ([Carya ovata](#)) [link](#)
11. **Ironwood** or Eastern Hophornbeam or Hardhack, ([Ostrya virginiana / virginianus](#)) [link](#) [link](#)
12. Black **Locust**, ([Robinia pseudoacacia](#))
13. Hard **Maple**: White Maple or Sugar Maple, ([Acer sacharrum](#))
14. Soft Maple
  - a. Red Maple, ([Acer rubrum](#))
  - b. Silver Maple ([Acer saccharinum](#))
15. Oak
  - a. Black Oak ([Quercus velutina](#))
  - b. Chestnut Oak, ([Quercus prinus](#))
  - c. Northern Red Oak, ([Quercus rubra](#))
  - d. Red Oak, ([Quercus borealis](#)) [link](#) [link](#)
  - e. White Oak, ([Quercus alba](#))
16. Yellow **Poplar**, American Tulipwood, ([Liriodendron tulipifera](#))
17. American **Sycamore**, ([Platanus occidentalis](#))
18. Walnut
  - a. Black Walnut, ([Juglans nigra](#))
  - b. Butternut (Walnut family,) ([Juglans cinerea](#)) [link](#) [link](#)
19. Black **Willow**, ([Salix nigra](#))

## 2.6 SOFTWOOD MATERIALS

A. Provide solid wood lumber and veneers per performance requirements. Provide plain or quarter

sawn lumber and sliced or rotary veneers as indicated. Do not provide finger-jointed wood unless clearly indicated in the Contract Documents. Provide sustainably managed or FSC softwood called out by the Contract Documents from the following list of wood types:

1. Eastern **Spruce**
  - a. Black Spruce [[Picea mariana](#)]
  - b. Norway Spruce, [[Picea abies](#)] [link](#)
  - c. Red (Yellow) or Adirondack Spruce, [[Picea rubens](#)]
  - d. White Spruce, [[Picea glauca](#)]
2. Pine
  - a. Eastern White Pine, [[Pinus strobus](#)]
  - b. Jack Pine, [[Pinus banksiana](#)]
  - c. Red Pine, [[Pinus resinosa](#)]
  - d. Scotch Pine, [[Pinus sylvestris](#)]
  - e. Loblolly (Southern Yellow) Pine, [[Pinus taeda](#)]
3. Fir
  - a. Balsam Fir [[Abies balsamea](#)]
  - b. Douglas Fir, [[Pseudotsuga menziesii](#)]
  - c. Silver Fir [[Abies alba](#)] [link](#)
  - d. White Fir [[Abies concolor](#)]
4. Eastern (Northern) **White Cedar**, [[Thuja occidentalis](#)]
5. Eastern **Redcedar** [[Juniperus virginiana](#)]
6. Eastern **Hemlock**, [[Tsuga canadensis](#)]
7. **Larch** (Tamarack), [[Larix laricina](#)]

### PART 3 - EXECUTION

#### 3.1 FIELD CONDITIONS

##### A. Sequencing: Certified wood.

1. Third Party Certified Forest or Tree Lot:
  - a. Sustainably harvest timber.
  - b. Logs transported less than 500 miles (805 km) to Sawmill.
2. Sawmill: Certified timber cut into lumber, stored and tracked separately.
  - a. Framing, posts, boards, plywood, chipboard, particleboard, or veneer
  - b. Siding: Beveled and Drop (Rustic or Barn)
  - c. Flooring
  - d. Casing and Base
  - e. Shingles and Shakes
3. Lumber transported less than 500 miles (805 km).
4. Treatments:
  - a. Air-dry and/or Kiln-dry lumber to required moisture percentage.
  - b. Preservative or fire-resistive treatment, if required by code, in accordance with Section 061000, ROUGH CARPENTRY.
  - c. Treated lumber transported less than 500 miles (805 km).
5. Furniture Fabricator:
  - a. Certified wood stored and tracked separately.
  - b. Maintains dust control.
  - c. Wood scrap, chips and dust reused, recycled or converted into harnessed energy.
  - d. Uses non-toxic, and low or no-VOC adhesives and finishes.
  - e. Does not use chromium plated materials.
  - f. Furniture transported less than 500 miles (805 km).
6. Jobsite: Certified wood materials stored and tracked separately prior to installation.

#### 3.2 FIELD QUALITY CONTROL

NOTE: Coordinate and edit to the correct Section number below.

- A. Site Tests and Inspections: Per SECTION 014000 or 014500 or 014523, and as follows:
  - 1. Allow and facilitate unscheduled inspections of timber stands and complete forestry operations to meet FSC or PEFC member sustainability standards.
- B. Non-Conforming Work per General Conditions and as follows:
  - 1. Replace damaged materials or items with New if repair not acceptable to Architect.

### 3.3 CLEANING

NOTE: Coordinate and edit to the correct Section number below.

- A. Waste Management per SECTION 017000 or 017400 or 017419, and as follows:
  - 1. Coordinate take-back program with manufacturer, if applicable.
    - a. Store and return pallets, containers and packaging to manufacturer or recycler for reuse or recycling.
    - b. Store scrap materials to be returned to manufacturer for recycling into new product or to be converted into harnessed energy.

NOTE: Coordinate and edit to the correct Section number below.

- B. Pest Control per SECTION 015000 or 015700 or 015716, and as follows: Pest control provided during construction shall not harm humans, pets, non-target species and shall not be toxic, carcinogenic, mutagenic or teratogenic.
  - 1. Manage timber to eliminate or reduce invasive and destructive pests in an environmentally safe but effective manner.

NOTE: Coordinate and edit to the correct Section number below.

- C. Provide Progress Cleaning per SECTION 017000 or 017400 or 017413, and as follows:
  - 1. Work Areas: Continuously clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
    - a. Clean and maintain completed construction until Substantial Completion.
  - 2. Site: Continuously maintain Project site free of waste materials and debris.

### 3.4 CLOSEOUT ACTIVITIES

NOTE: Coordinate and edit to the correct Section number below.

- A. Substantial Completion Requirements per SECTION 017000 or 017700.

### 3.5 PROTECTION

- A. Protect from construction operations, including damage by work of other trades, until date of Final Completion or Owner occupancy, whichever occurs first.

END OF SECTION

NOTE: Please **contact us** with comments, additions and deletions about this GuideSpec so we can make it better.

VERMONT SUSTAINABLE JOBS FUND

3 Pitkin Court, Suite 301E , Montpelier, Vermont 05602

Phone Number: **802.828.1260** Email: [greenspecfeedback@vsjf.org](mailto:greenspecfeedback@vsjf.org)

**RED NOTE: Be sure to obtain the latest version of this Guide Specification.**

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The professional stamping and the contracting parties of the Contract Documents are responsible for the accuracy of issued project specifications, including any use of this Guide Specification.

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