## **SECTION 060573 - WOOD TREATMENT**

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - Preservative wood treatment.
- B. Related Sections include the following:
  - Divisions 02 through 49 Sections specifying wood products.

### 1.2 SUBMITTALS

- A. Product Data: For each type of process and product. Include field protection and field treatment application instructions.
  - Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
  - For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
  - 3. Include copies of warranties from chemical treatment manufacturers for each type of treatment.
- B. Research/Evaluation Reports: For the following, showing compliance with building code in effect for Project:
  - 1. Preservative-treated wood.

## 1.3 DELIVERY, STORAGE, AND HANDLING

- A. Stack treated lumber and plywood flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.
- B. Deliver interior wood materials that are to be exposed to view only after building is enclosed and weatherproof, wet work other than painting is dry, and HVAC system is operating and maintaining temperature and humidity at occupancy levels.

### PART 2 - PRODUCTS

### 2.1 WOOD-PRESERVATIVE-TREATED MATERIALS

- A. Preservative Treatment by Pressure Process: Pressure-treat wood according to AWPA U1 and the following:
  - 1. Use preservative chemicals acceptable to authorities having jurisdiction and containing no arsenic or chromium.
  - 2. For exposed items indicated to receive a stained or natural finish, use chemical formulations that do not require incising, contain colorants, bleed through, or

- otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
- 3. Kiln-dry lumber and plywood after treatment to a maximum moisture content, respectively, of 19 and 15 percent. Do not use materials that are warped or do not comply with requirements for untreated materials.
- B. Mark lumber and plywood with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
  - For exposed lumber and plywood indicated to receive a stained or natural finish, mark end or back of each piece or omit marking and provide certificates of treatment compliance issued by inspection agency.
- C. Application: Treat items indicated on Drawings, and the following:
  - 1. Wood members in connection with roofing and flashing.
  - 2. Wood members in contact with masonry or concrete.
  - Wood framing members that are less than 18 inches above the ground in crawl spaces or unexcavated areas.
  - 4. Wood floor plates that are installed over concrete slabs-on-grade.
  - 5. Wood members in contact with soils or earth.

### 2.2 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
  - 1. Where exterior exposed wood is pressure-preservative treated provide fasteners of Type 304 stainless steel.
  - Where interior exposed wood is pressure-preservative treated provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
  - For wall and parapet and roof sheathing panels, provide fasteners with corrosionprotective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117.

### PART 3 - EXECUTION

## 3.1 INSTALLATION, GENERAL

A. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

### 3.2 PROTECTION

- A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.
- B. Protect wood from weather. If, despite protection, wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

## Section 060573 Wood Treatment

## **END OF SECTION 060573**

C:\WDEO\SPEC\PROJECTS\2011 JOBS\11002 HICKORY WOODS\06 05 73\_WFL WOOD TREATMENT.DOC

1				
\$			•	
4				
1				•
J.				
i				
2				
T.				
ž.				
): 				
9/ 3/				
100				
34808A				
68.00				
Ŷ.				
1				
7				
i				
100				
1				ŧ
£.				
¥				
į.				
N. (4)				
Ž.				
80				
¥.				
Ž.				
Sware				
1,144				
and de la company de la co				
				,
1				
and the control of the following				
¥ .				

#### SECTION 061000 - ROUGH CARPENTRY

#### PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Framing with dimension lumber.
  - 2. Framing with engineered wood products.
  - 3. Wood blocking and nailers.
  - 4. Wood furring.
  - 5. Plywood backing panels.
- B. Related Sections:
  - 1. Division 06 Section "Wood Treatment."

#### 1.2 SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product.
- B. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the American Lumber Standards Committee Board of Review.
- C. Research/Evaluation Reports: For the following, showing compliance with building code in effect for Project:
  - 1. Engineered wood products.
  - 2. Power-driven fasteners.
  - 3. Powder-actuated fasteners.
  - 4. Expansion anchors.
  - 5. Metal framing anchors.

### PART 2 - PRODUCTS

## 2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
  - 1. Factory mark each piece of lumber with grade stamp of grading agency.
  - 2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece or omit grade stamp and provide certificates of grade compliance issued by grading agency.
  - 3. Provide dressed lumber, S4S, unless otherwise indicated.
- B. Engineered Wood Products: Provide engineered wood products acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project.

## 2.9 MISCELLANEOUS MATERIALS

A. Flexible Flashing: Self-adhesive, rubberized-asphalt compound, bonded to a high-density, polyethylene film to produce an overall thickness of not less than 0.025 inch.

#### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, and similar supports to comply with requirements for attaching other construction.
- B. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.
- C. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- D. Framing with Engineered Wood Products: Install engineered wood products to comply with manufacturer's written instructions.
- E. Metal Framing Anchors: Install metal framing to comply with manufacturer's written instructions.
- F. Do not splice structural members between supports, unless otherwise indicated.
- G. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
- H. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
  - 1. NES NER-272 for power-driven fasteners.
  - 2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.

#### **END OF SECTION 061000**

C:\WDEO\SPEC\PROJECTS\2011 JOBS\11002 HICKORY WOODS\06 10 00\_SF ROUGH CARPENTRY.DOC

#### SECTION 061600 - SHEATHING

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Wall sheathing.
  - 2. Roof sheathing.
  - 3. Weather barrier.
  - 4. Sheathing joint-and-penetration treatment.
  - 5. Flexible flashing.
- B. Related Sections:
  - 1. Division 06 Section "Wood Treatment."

## 1.2 SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
- B. Research/Evaluation Reports: For the following:
  - Building wrap.
- 1.3 DELIVERY, STORAGE, AND HANDLING
  - A. Stack plywood and other panels flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.

#### PART 2 - PRODUCTS

- 2.1 WOOD PANEL PRODUCTS, GENERAL
  - A. Plywood: DOC PS 1.
  - B. Oriented Strand Board: DOC PS 2.
- 2.2 PRESERVATIVE-TREATED PLYWOOD
  - A. As specified in Division 06 Section "Wood Treatment."
- 2.3 WALL SHEATHING
  - A. Plywood Wall Sheathing: Exposure 1 sheathing.
  - B. Oriented-Strand-Board Wall Sheathing: Exposure 1 sheathing.
- 2.4 ROOF SHEATHING
  - A. Plywood Roof Sheathing: Exposure 1 sheathing.

B. Oriented-Strand-Board Roof Sheathing: Exposure 1 sheathing.

### 2.5 FASTENERS

A. General: Provide fasteners of size and type indicated.

1. For wall and roof sheathing panels, provide fasteners with corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117.

## 2.6 WEATHER BARRIER

- A. Building Wrap: ASTM E 1677, Type I air retarder; with flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E 84; UV stabilized; and acceptable to authorities having jurisdiction.
  - 1. Products: Subject to compliance with requirements, provide one of the following:
    - a. Dow Chemical Company (The); Styrofoam Weathermate Plus Brand Housewrap.
    - b. DuPont (E. I. du Pont de Nemours and Company); Tyvek CommercialWrap.
    - c. Ludlow Coated Products; R-Wrap Protective House Wrap.
  - 2. Water-Vapor Permeance: Not less than 535 g through 1 sq. m of surface in 24 hours per ASTM E 96, Desiccant Method (Procedure A).
- B. Building-Wrap Tape: Tape recommended by building-wrap manufacturer.

### 2.7 MISCELLANEOUS MATERIALS

- A. Adhesives for Field Gluing Panels to Framing: Formulation complying with APA AFG-01 that is approved for use indicated by manufacturers of both adhesives and panels.
- B. Flexible Flashing: Self-adhesive, rubberized-asphalt compound, bonded to a high-density, polyethylene film to produce an overall thickness of not less than 0.025 inch.

## PART 3 - EXECUTION

## 3.1 INSTALLATION, GENERAL

- A. Securely attach to substrate by fastening as indicated, complying with the following:
  - NES NER-272 for power-driven fasteners.
  - 2. Table 2304.9.1, "Fastening Schedule," in ICC's "International Building Code."
- B. Coordinate sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that exclude exterior moisture.

# 3.2 WOOD STRUCTURAL PANEL INSTALLATION

- A. General: Comply with applicable recommendations in APA Form No. E30K, "APA Design/Construction Guide: Residential & Commercial."
  - 1. Comply with "Code Plus" installation provisions in guide referenced in paragraph above.

- B. Fastening Methods: Fasten panels as indicated below:
  - 1. Wall and Roof Sheathing:
    - a. Nail to wood framing. Apply a continuous bead of glue to framing members at edges of wall sheathing panels.

### 3.3 GYPSUM SHEATHING INSTALLATION

- Comply with GA-253 and with manufacturer's written instructions.
  - 1. Fasten gypsum sheathing to wood framing with screws.
  - 2. Install boards with a 3/8-inch gap where non-load-bearing construction abuts structural elements.
  - 3. Install boards with a 1/4-inch gap where they abut masonry or similar materials.

### 3.4 WEATHER BARRIERS

- A. General: Cover sheathing with weather barrier as follows:
  - Apply barrier to cover vertical flashing with a minimum 4-inch overlap, unless otherwise indicated.
- B. Building Wrap: Apply under wall areas to receive wood siding. Comply with manufacturer's written instructions.
  - 1. Seal seams, edges, fasteners, and penetrations with tape.
  - 2. Extend into jambs of openings and seal corners with tape.

### 3.5 FLEXIBLE FLASHING INSTALLATION

- A. Apply flexible flashing where indicated to comply with manufacturers written instructions.
  - 1. Lap seams and junctures with other materials at least 4 inches, except that at flashing flanges of other construction, laps need not exceed flange width.
  - 2. Lap flashing over weather barrier at bottom and sides of openings.
  - 3. Lap weather barrier over flashing at heads of openings.
  - 4. After flashing has been applied, roll surfaces with a hard rubber or metal roller.

#### **END OF SECTION 061600**

C:\WDEO\SPEC\PROJECTS\2011 JOBS\11002 HICKORY WOODS\06 16 00\_SF SHEATHING.DOC

5. 5. s.				
- 2 - 2:				
i.				
F.				
1 1				
l.				
1				
1				
l.				
?				
1. ( )				
Division and the second				
i.				
8				
5. 10.				
# }				
Į.				
8				
Ž.				
ł				
į				*
1				:
:				
į				
* * * * * * * * * * * * * * * * * * *				
The state of the s				
				•
the second secon				
in the state of th				
The second secon				
The second secon				
and the state of t				
The second secon				
The second of th				
The second of th				
manuscriptus (m. 1907). The most proposed and publication of publications is substantially				
The second section of the second second section of the second section of the second second second second second				
manus en la companya de la companya				
and the control of the control of the second				
manus meneral de la como de la co				
Ī				
2°				
2°				
2°				
2°				
2°				
2°				
2°				
: e*				

### SECTION 061753 - SHOP-FABRICATED WOOD TRUSSES

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Wood roof trusses.
  - 2. Wood truss bracing.
  - 3. Metal truss accessories.

### 1.2 012100ACTION SUBMITTALS

- A. Product Data: For metal-plate connectors, metal truss accessories, and fasteners.
- B. Shop Drawings: Show fabrication and installation details for trusses.
  - Show location, pitch, span, camber, configuration, and spacing for each type of truss required.
  - 2. Indicate sizes, stress grades, and species of lumber.
  - 3. Indicate locations, sizes, and materials for permanent bracing required to prevent buckling of individual truss members due to design loads.
  - 4. Indicate type, size, material, finish, design values, orientation, and location of metal connector plates.
  - 5. Show splice details and bearing details.
- C. Delegated-Design Submittal: For metal-plate-connected wood trusses indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

#### 1.3 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Evaluation Reports: For the following, from ICC-ES:
  - 1. Metal-plate connectors.
  - 2. Metal truss accessories.

### 1.4 QUALITY ASSURANCE

- A. Metal Connector-Plate Manufacturer Qualifications: A manufacturer that is a member of TPI and that complies with quality-control procedures in TPI 1 for manufacture of connector plates.
  - 1. Manufacturer's responsibilities include providing professional engineering services needed to assume engineering responsibility.
  - 2. Engineering Responsibility: Preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional engineer licensed in the state where the Project is located.

B. Fabricator Qualifications: Shop that participates in a recognized quality-assurance program that complies with quality-control procedures in TPI 1 and that involves third-party inspection by an independent testing and inspecting agency acceptable to Architect and authorities having jurisdiction .

## 1.5 DELIVERY, STORAGE, AND HANDLING

A. Handle and store trusses to comply with recommendations in TPI BCSI, "Building Component Safety Information: Guide to Good Practice for Handling, Installing, Restraining, & Bracing Metal Plate Connected Wood Trusses."

#### PART 2 - PRODUCTS

## 2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Division 01 Section "Quality Requirements," to design metal-plate-connected wood trusses.
- B. Structural Performance: Provide metal-plate-connected wood trusses capable of withstanding design loads within limits and under conditions indicated. Comply with requirements in TPI 1 unless more stringent requirements are specified below.

### 2.2 DIMENSION LUMBER

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
  - 1. Provide dry lumber with 19 percent maximum moisture content at time of dressing.
- B. Permanent Bracing: Provide wood bracing that complies with requirements for miscellaneous lumber in Division 06 Section "Rough Carpentry."061053

## 2.3 METAL CONNECTOR PLATES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Alpine Engineered Products, Inc.; an ITW company.
  - 2. Cherokee Metal Products, Inc.; Masengill Machinery Company.
  - 3. CompuTrus, Inc.
  - Eagle Metal Products.
  - 5. Jager Building Systems, Inc.; a Tembec/SGF Rexfor company.
  - 6. MiTek Industries, Inc.; a subsidiary of Berkshire Hathaway Inc.
  - 7. Robbins Engineering, Inc.
  - 8. Truswal Systems Corporation; an ITW company.
- B. General: Fabricate connector plates to comply with TPI 1.

C. Hot-Dip Galvanized-Steel Sheet: ASTM A 653/A 653M; Structural Steel (SS), high-strength low-alloy steel Type A (HSLAS Type A), or high-strength low-alloy steel Type B (HSLAS Type B); G60 coating designation; and not less than 0.036 inch thick.

## 2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
  - 1. Provide fasteners for use with metal framing anchors that comply with written recommendations of metal framing manufacturer.
  - 2. Provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
- B. Nails, Brads, and Staples: ASTM F 1667.

## 2.5 METAL FRAMING ANCHORS AND ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Cleveland Steel Specialty Co.
  - 2. KC Metals Products, Inc.
  - 3. Phoenix Metal Products, Inc.
  - 4. Simpson Strong-Tie Co., Inc.
  - 5. USP Structural Connectors.
- B. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those of products of manufacturers listed.

  Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
- C. Galvanized-Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 coating designation.

### 2.6 FABRICATION

- A. Assemble truss members in design configuration indicated; use jigs or other means to ensure uniformity and accuracy of assembly with joints closely fitted to comply with tolerances in TPI 1. Position members to produce design camber indicated.
  - 1. Fabricate wood trusses within manufacturing tolerances in TPI 1.
- B. Connect truss members by metal connector plates located and securely embedded simultaneously in both sides of wood members by air or hydraulic press.

#### PART 3 - EXECUTION

### 3.1 INSTALLATION

A. Install wood trusses only after supporting construction is in place and is braced and secured.

- B. If trusses are delivered to Project site in more than one piece, assemble trusses before installing.
- C. Hoist trusses in place by lifting equipment suited to sizes and types of trusses required, exercising care not to damage truss members or joints by out-of-plane bending or other causes.
- D. Install and brace trusses according to TPI recommendations and as indicated.
- E. Anchor trusses securely at bearing points; use metal truss tie-downs. Install fasteners through each fastener hole in metal framing anchors according to manufacturer's fastening schedules and written instructions.
- F. Install and fasten permanent bracing during truss erection and before construction loads are applied. Anchor ends of permanent bracing where terminating at walls or beams.
- G. Install bracing to comply with Division 06 Section "Rough Carpentry."061053
  - Install and fasten strongback bracing vertically against vertical web of parallelchord floor trusses at centers indicated.
- H. Install wood trusses within installation tolerances in TPI 1.
- Do not alter trusses in field. Do not cut, drill, notch, or remove truss members.

## **END OF SECTION 061753**

C:\WDEO\SPEC\PROJECTS\2011 JOBS\11002 HICKORY WOODS\06 17 53 SF - SHOP-FABRICATED WOOD TRUSSES.DOC

### SECTION 06202300 -INTERIOR FINISH CARPENTRY

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following for interior applications:
  - 1 Wood panels.
  - 2 Standing and running trim.

#### 1.2 SUBMITTALS

A. Product Data: For each type of factory-fabricated product.

### PART 2 - PRODUCTS

## 2.1 MATERIALS, GENERAL

- A. Lumber: DOC PS 20 and applicable grading rules of inspection agencies certified by ALSC's Board of Review.
- B. Softwood Plywood: DOC PS 1; MDO softwood; 1/2 inch thick for ceilings.

### 2.2 STANDING AND RUNNING TRIM

- A. Softwood Lumber Trim:
  - 1. Species and Grade: Eastern white, Idaho white, Iodgepole, ponderosa, radiata, or sugar pine; Finish or 1 Common (Colonial); NeLMA, NLGA, or WWPA.
  - 2. Maximum Moisture Content: 19 percent.
  - 3. Face Surface: Surfaced (smooth).

## 2.3 MISCELLANEOUS MATERIALS

- A. Fasteners: Provide finishing nails or screws, in sufficient length to penetrate not less than 1-1/2 inches into wood substrate.
- B. Paneling Adhesive: Comply with panel manufacturer's written recommendations for adhesives.
- C. Sealant: Provide sealant compatible with adjacent materials and complying with requirements in Division 7 Section "Joint Sealants."

#### PART 3 - EXECUTION

### 3.1 EXAMINATION

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of siding. Proceed with installation only after unsatisfactory conditions have been corrected.

Hickory Woods Park, Ph 1B Issued for Bid Documents Set –February 22, 2011

Interior Finish Carpentry-1

### 3.2 PREPARATION

- A. Clean substrates of projections and substances detrimental to application.
- B. Before installing interior finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours.

## 3.3 INSTALLATION, GENERAL

- A. Install finish carpentry level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
  - Scribe and cut finish carpentry to fit adjoining work.
  - 2. Countersink fasteners, fill surface flush, and sand smooth.
  - 3. Install interior finish carpentry to tolerance of 1/8 inch in 96 inches for level and plumb. Install adjoining interior finish carpentry with 1/32-inch maximum offset.
- B. Provide neat cutouts for mechanical and electrical items that penetrate finish carpentry.

## 3.4 PANELING INSTALLATION

- A. Plywood Ceiling Paneling: Leave 1/4-inch gap to be covered with trim at perimeter edges and openings. Install with 1/8 inch joints between panels to be covered with batten trim.
  - Attach panels to supports with manufacturer's recommended panel adhesive and fasteners. Space fasteners and adhesive as recommended by panel manufacturer.
  - 2. Conceal fasteners to greatest practical extent.

# 3.5 STANDING AND RUNNING TRIM INSTALLATION

- Install flat grain lumber with bark side exposed to weather.
- B. Install trim with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches long except where necessary.
  - 1. Cope at returns and miter at corners to produce tight-fitting joints.
  - 2. Use scarf joints for end-to-end joints.
  - Stagger end joints in adjacent and related members.

## 3.6 ADJUSTING AND CLEANING

- A. Remove damaged, improperly installed, or otherwise defective siding materials and replace with new materials complying with specified requirements.
- B. Clean finished surfaces according to siding manufacturer's written instructions and maintain in a clean condition during construction.

# **END OF SECTION 062000**

C:\WDEO\SPEC\PROJECTS\2011 JOBS\11002 HICKORY WOODS\06 20 00\_SF FINISH CARPENTRY.DOC @ 2011 WDEO Associates, Inc.