



FULTON COUNTY PURCHASING DEPARTMENT

Winner 2000 - 2004 Achievement of Excellence in Procurement Award
National Association of Purchasing Management

Jerome Noble, Director

August 12, 2005

RE: **#05ITB45133K-RS**
Fairburn Neighborhood Senior Center

Dear Bidders:

Attached is one (1) copy of Addendum 2, hereby made a part of the above referenced Invitation to Bid (ITB).

Except as provided herein, all terms and conditions in the ITB referenced above remain unchanged and in full force and effect.

Sincerely,

Rholanda Malveaux Stanberry

Rholanda Malveaux Stanberry
Chief Assistant Purchasing Agent

**#05ITB451334K-RS, Fairburn Neighborhood Senior Center
Addendum No. 2
August 12, 2005
Page Two**

This Addendum forms a part of the contract documents and **modifies** the original ITB documents as noted below:

ACKNOWLEDGEMENT OF ADDENDUM NO. 2

The undersigned bidder acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Purchasing Department, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30335 by the ITB due date and time **Wednesday, August 17, 2005 no later than 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 2, _____ day of _____, 2005.

Legal Name of Bidder

Signature of Authorized Representative

Title

Fairburn Neighborhood Senior Center
ITB No. 05ITB 451334K-RS
Addendum 2
8/12/05

1. Revise Table of Contents to delete Section 06 180 and add Sections 02 832 Segmental Retaining Walls, 06 150 Wood Decking, 06 185 Structural Glue-Laminated Timber.
2. Issue Revised Contract Compliance Forms D and E to correct page break; these forms to be submitted with this bid.
3. *Request for acceptance as approved equal for Kitchen Equipment by Eagle Group.*
The following products manufactured by Eagle Group, modified to comply with specifications, are acceptable:
 3. Hand Sink
 5. Security Storage
 6. Shelving Mobile
 10. Pot Rack Wall Shelf
 14. Equipment Stand
 21. Work Table
 22. Work Table with Sink
 36. Mobile Work Table with Overshelf
4. *Request for acceptance as approved equal for Kitchen Equipment by Blakeslee.*
The following products manufactured by Blakeslee, modified to comply with specifications, are acceptable:
 28. Undercounter Dishwasher
5. *Request for acceptance as approved equal for Kitchen Equipment by Commercial Stainless.*
The following products manufactured by Commercial Stainless, modified to comply with specifications, are acceptable:
 10. pot rack wall shelf
 14. equip. stand
 21. work table
 22. work table with sink
 26. four compartment sink
 35. tray and silver dispenser
 36. mobile work table with overshelf.
6. *Request for acceptance as approved equal for Kitchen Equipment by Atlanta Kitchen Equipment, Inc.*
The following products manufactured by Atlanta Kitchen Equipment, Inc., modified to comply with specifications, are acceptable:
 10. pot rack wall shelf
 14. equip. stand
 17. two compartment sink
 21. work table
 22. work table with sink
 26. four compartment sink
 29. undercounter dish table
 31. beverage table
 36. mobile work table with overshelf.

7. *Request for acceptance as approved equal for Section 08 110 Steel Doors and Frames by D&D Specialties, Inc.*
To Section 08 110, Part 2 – Products, sub-paragraph 2.1 Manufacturers, add to the following:
 - 7.D&D Specialties, Inc.
8. *Request for acceptance as approved equal for Section 07 410 Manufactured Roof Panels by Berridge Manufacturing Company.*
To Section 07 410, Part 2 Products, sub-paragraph 2.01 Acceptable Manufacturers, add the following:
 4. Berridge Manufacturing Company, 319 Le Industrial Blvd., Austell, Georgia 30168, Tel. 770-941-5141
9. *Request for acceptance as approved equal for Section 07 410 Manufactured Roof Panels by McElroy Metal Inc.*
To Section 07 410, Part 2 Products, sub-paragraph 2.01 Acceptable Manufacturers, add the following:
 5. McElroy Metal Inc. 555 Dividend Drive, Peachtree City, Georgia 30269. Tel. 770-949-4724.
10. *Request for acceptance as approved equal for Section 07 410 Manufactured Roof Panels by MBCI, Inc.*
To Section 07 410, Part 2 Products, sub-paragraph 2.01 Acceptable Manufacturers, add to the following:
 6. MBCI, Inc. Tel. 877-512-6224.
11. *Request for acceptance as approved equal for Section 03 300 for Sealtight by W.R. Meadows of Georgia.*
Section 03 300, Part 2 Products, sub-paragraph 2.08 Floor and Slab Treatments, add to the following:
 - i. Sealtight, W.R. Meadows of Georgia.
12. *Request for acceptance as approved equal for Section 07 190 Vapor Retarder by Stego Industries, LLC*
To Section 07 190, Part 2 Products, sub-paragraph 2.1 Vapor Retarder, add to the following:
 3. Stego Wrap Vapor Barrier, Stego Industries, LLC.
13. *Request for acceptance as approved equal for Section 10 350 Flag Poles by Morgan-Francis Flagpoles*
To Section 10 350, Part 2 Products, sub-paragraph 2.1 Manufacturers, add to the following:
 11. Morgan-Francis Flagpoles.
14. *Request for acceptance as approved equal for Section 12 481 Floor Mats and Frames by JL Industries.*
To Section 12 481, Part 2 Products, sub-paragraph 2.2 Manufactured Units, add to the following:
 3. J.L. Industries. Model JL-R
15. *Section 06 130 Heavy Timber Construction, is there any pressure treat or fire treat to Glue Lam or T&G Deck? Is there any pre-finish to Glue Lam or T&G Deck?*
Pressure treatment is clearly indicated in specification section 06 185 Structural Glue-Laminated Timber and on Structural Sheet S1.0.

Pre-finishing of glue-laminated construction is clearly indicated in specification section 06 185 Structural Glue-Laminated Timber.

16. *Is modular wall part of contract?*
Modular wall is part of contract as indicated on drawing, see new specification section 02 832 Segmental Retaining Walls.
17. *Sheet A3.1 West Elevation-Screen Porch doesn't show a roof on the screened porch. Sheet A2.2 shows a standing seam roof on the porch. Sheet A2.2 shows rafters at 16" oc. What kind a ceiling and fascia go in porch?*
Sheet A2.3, keynotes 5 & 6 indicate finished ceiling requirements. Sheets A2.2 and A3.9 indicate roofing requirements for screen porch. The roofing is standing seam metal roofing.
18. *Is there a ceiling on the canopy out front or is everything exposed? The bottom side of the plywood deck, the wood framing, the bolted nailers and steel beams appear to be painted and exposed.*
Provide 1" EIFS system on 1/2" dens glass sheathing as finished soffit finish. All surfaces to be painted.
19. *In regards to section 12 491 Horizontal Louver Blinds and section 12 494 Roller Shades, please give us sizes and locations.*
Extent of window shading can be found on sheet a2.3, keynote 17. Dimensions of units are based upon window openings. Refer to sheet a3.7 for details.
20. *Is the furnishing and/or the installation of FFE in the Contractor's Scope? We see reference to an FFE manual; however we do not have a copy of it nor is it listed in the bid document specifications.*
The supply and installation of furniture is not in contract (N.I.C.), but drawing ID1.3 is included for reference.
21. *The bid documents require multiple submissions that are impractical or perhaps indeed impossible to provide WITH THE BID. Many of our quotations are not received until right at bid time and most are received the day of the bid. It is physically impossible for us to go through the qualifications of a prospective bidder in a few minutes or seconds before a bid. It is also not practical for us to send out and have back from these bidders properly filled out OCIP Forms, etc. Additionally as a Female Owned Business ourselves we strive to provide opportunities to MBE/FBE firms on all of our projects and joint ventures of majority/minority firms is an excellent avenue however often these alignments are made after all of the bidders are known which again typically occurs on bid day.*

In summary, we respectfully request that Exhibits C, D, F, H be provided by the low bidder within 10 days of the bid in lieu of with the bid. The County also benefits by enabling all bidders to focus on the total bid amount in lieu of very comprehensive forms. Thank you for your consideration.
The Office of Contract Compliance exhibits are an official part of the bid document. Fulton County requires that all exhibits be received at the time of the bid. All Exhibits are to be completed and submitted in a separate sealed envelope marked Contract Compliance.
22. *Fire line and fire protection drawings and information are very limited. Please provide additional direction regarding the fire line as to size requirements, location, fire hydrants on site, riser detail, PIV Detail/location, FDC Location.*
Fire line location, FDC, and hydrant locations are clearly shown on sheet C2.0 including the location and extent of piping. Sheet P1.0 clearly indicates that the fire service line is 4 inches. Specification section 15 500 indicates all of the responsibilities of the fire protection contractor including calculations, vault installation, etc.

23. *I have reviewed the RFP's but they don't address any communications services or equipment. Are these items going to be addressed on another RFP separate and apart?*
Communications (equipment and cabling) for this facility is not part of this construction ITB. Fulton County's IT department has a 5-Year Master Agreement with BellSouth. Via this agreement, data services and equipment are procured for capital projects.
24. *Please have the architect clarify if the ornamental fence has two or three rails. It show three rails in the detail and the specifications ask for two rail.*
The drawing is incorrect. The system should be a 2-rail system. The intermediate rail as indicated on sheet a2.0 is to be deleted.

End of Addendum 2

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SECTION 02832

SEGMENTAL RETAINING WALLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes single-depth segmental retaining walls with soil reinforcement.
- B. Related Sections include the following:
 - 1. Division 2 Section "Earthwork" for excavation for segmental retaining walls.
 - 2. Division 3 Section "Cast-in-Place Concrete" for retaining wall footings.
 - 3. Division 4 Section "Unit Masonry Assemblies" for decorative concrete masonry units with faces required to match segmental retaining wall units.

1.3 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide segmental retaining walls capable of withstanding the effects of gravity loads due to soil pressures resulting from grades indicated, and determined according to NCMA's "Design Manual for Segmental Retaining Walls."
 - 1. Include the effects of sloped backfill as indicated on Drawings.
- B. Seismic Performance: Provide segmental retaining walls capable of withstanding the effects of earthquake motions determined according to ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 9, "Earthquake Loads." NCMA's "Segmental Retaining Walls-- Seismic Design Manual."
 - 1. Seismic Design Criteria:
 - a. Seismic Use Group – 1
 - b. Seismic Site Class – D
 - c. Seismic Design Category – C
 - d. Seismic Importance Factor $1e = 1.0$
 - e. Spectral Response Acceleration Coefficient, $Sd5=0.260$, $Sd1=0.170$
 - f. Response Modification Factor – $R = 2.0$
- C. Drainage: Provide segmental retaining wall drainage system capable of preventing accumulation of groundwater in retained soils and in retaining wall foundation soils.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. For installed systems indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- B. Samples for Initial Selection: For concrete units.
- C. Samples for Verification: For each color and texture of concrete unit required. Submit full-size units sections of units not less than **3 inches (75 mm)** square.
- D. Qualification Data: For Installer.
- E. Preconstruction Test Reports: For segmental retaining wall system.
- F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency or by manufacturer and witnessed by a qualified testing agency, for segmental retaining wall units and soil reinforcement.
 - 1. Include test data for freeze-thaw durability of segmental retaining wall units.
- G. Product Certificates: For segmental retaining wall units signed by product manufacturer.
 - 1. Include test data for shear strength between segmental retaining wall units according to NCMA SRWU-2.
- H. Research/Evaluation Reports: For segmental retaining wall units.

1.5 QUALITY ASSURANCE

- A. Preconstruction Testing Service: Engage a qualified independent testing agency to perform the following preconstruction testing:
 - 1. Testing Agency Qualifications: An independent agency qualified according to ASTM E 329 for testing indicated, as documented according to ASTM E 548.
 - 2. Test soil reinforcement and backfill materials for pullout behavior according to GRI GG5 or GRI GT6.
 - 3. Test soil reinforcement and backfill materials for coefficient of friction according to ASTM D 5321.
- B. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects.
 - 1. Build mockups of typical segmental retaining wall as shown on Drawings.
 - 2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle concrete units and accessories to prevent deterioration or damage due to moisture, temperature changes, contaminants, breaking, chipping, or other causes.
- B. Store geosynthetics in manufacturer's original packaging with labels intact. Store on elevated platforms, protected from moisture, sunlight, chemicals, flames, temperatures above **160 deg F (71 deg C)** or below **32 deg F (0 deg C)**, and other conditions that might damage them. Verify identification of geosynthetics before using and examine them for defects as material is placed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Segmental Retaining Wall Units:
 - a. Licensees of Allan Block Corporation.
 - b. Licensees of Anchor Wall Systems, Inc.
 - c. Licensees of Geo Western, Inc.
 - d. Licensees of ICD Corporation.
 - e. Licensees of Keystone Retaining Wall Systems, Inc.
 - f. Licensees of Reinforced Earth Company (The).
 - g. Licensees of Risi Stone Systems; a division of Rothbury International Inc.
 - h. Licensees of Rockwood Retaining Wall Systems.
 - i. Licensees of Tensar Earth Technologies, Inc.
 - j. Licensees of Versa-Lok Retaining Wall Systems; a division of Kiltie Corp.

2.2 SEGMENTAL RETAINING WALL UNITS

- A. Concrete Units: ASTM C 1372, Normal Weight, except that units shall not differ in height more than plus or minus **1/16 inch (1.6 mm)** from specified dimension.
 - 1. Provide units that comply with requirements for freeze-thaw durability.
 - 2. Provide units that interlock with courses above and below by means of integral lugs or lips pins clips or hollow cores filled with drainage fill.
- B. Colors: As selected by Architect from manufacturer's full range.
- C. Shapes: Provide units of any basic shape and dimensions that will produce segmental retaining walls of dimensions and profiles indicated without interfering with other elements of the Work and as follows:
 - 1. Exposed Face: Machine-split textured.
 - 2. Batter: Provide units that offset from course below to provide at least 1:24 batter.
- D. Cap Units: Provide cap units of same shape as other units with smooth, as-cast top surfaces without holes or lugs.

- E. Special Units: Provide corner units, end units, and other shapes as needed to produce segmental retaining walls of dimensions and profiles indicated and to provide texture on exposed surfaces matching face.

2.3 INSTALLATION MATERIALS

- A. Pins: Product supplied by segmental retaining wall unit manufacturer for use with units provided, made from nondegrading polymer reinforced with glass fibers.
- B. Clips: Product supplied by segmental retaining wall unit manufacturer for use with units provided, made from nondegrading polymer reinforced with glass fibers.
- C. Cap Adhesive: Product supplied or recommended by segmental retaining wall unit manufacturer for adhering cap units to units below.
- D. Leveling Base: Comply with requirements in Division 2 Section "Earthwork" for base material.
- E. Drainage Fill: Comply with requirements in Division 2.
- F. Reinforced Soil Fill: ASTM D 2487; GW, GP, SW, SP, and SM soil classification groups or a combination of these groups; free of debris, waste, frozen materials, vegetation, and other deleterious matter; meeting the following gradation according to ASTM C 136: 20 to 100 percent passing No. 4 sieve, 0 to 60 percent passing No. 40 sieve, 0 to 35 percent passing No. 200 sieve; and with fine fraction having a plasticity index of less than 20.
- G. Nonreinforced Soil Fill: Comply with requirements in Division 2 Section "Earthwork" for satisfactory soils.
- H. Filter Fabric: Comply with requirements in Division 2.
- I. Drainage Pipe: Comply with requirements in Division 2.

2.4 SOURCE QUALITY CONTROL

- A. Direct manufacturer to test and inspect each roll of soil reinforcement at factory for minimum average roll values for geosynthetic index property tests including the following:
 - 1. Weight.
 - 2. Roll size.
 - 3. Grab or single-rib strength.
 - 4. Aperture opening.
 - 5. Rib or yarn size.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for excavation tolerances, condition of subgrades, and other conditions affecting performance of segmental retaining walls.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 RETAINING WALL INSTALLATION

- A. General: Place units according to NCMA's "Segmental Retaining Wall Installation Guide" and segmental retaining wall unit manufacturer's written instructions. Lay units in running bond.
 - 1. Form corners and ends by splitting units with mason's hammer and chisel.
- B. Leveling Base: Place and compact base material to thickness indicated and with not less than 95 percent maximum dry unit weight according to ASTM D 698.
 - 1. At Contractor's option, unreinforced lean concrete may be substituted for upper **1 to 2 inches (25 to 50 mm)** of base. Compact and screed concrete to a smooth, level surface.
- C. Leveling Course: Place unreinforced lean concrete over base course to thickness indicated; compact and screed to a smooth, level surface.
- D. First Course: Place first course of segmental retaining wall units on leveling base/course for full length of wall. Place units in firm contact with each other, properly aligned and level.
 - 1. Place and compact fill, either drainage or soil fill as indicated, to top of first course. Place fill on both sides of wall at same time without disturbing alignment of units. Fill voids between and within units with drainage fill.
- E. Subsequent Courses: Remove excess fill and debris from tops of units in course below. Place units in firm contact, properly aligned, and directly on course below.
 - 1. For units with lugs designed to fit into holes in adjacent units, lay units so lugs are accurately aligned with holes, and bedding surfaces are firmly seated on beds of units below.
 - 2. For units with lips at front of units, slide units as far forward as possible for firm contact with lips of units below.
 - 3. For units with pins, install pins and align units according to manufacturer's written instructions.
 - 4. For units with clips, install clips and align units according to manufacturer's written instructions.
 - 5. Place fill on both sides of wall at same time, where both sides are indicated to be filled.
 - 6. Fill voids between and within units with drainage fill.
- F. Cap Units: Place cap units and secure with cap adhesive according to manufacturer's written instructions.

3.3 FILL PLACEMENT

- A. General: Comply with requirements in Division 2 Section "Earthwork," NCMA's "Segmental Retaining Wall Installation Guide," and segmental retaining wall unit manufacturer's written instructions.
- B. Place, spread, and compact fill in uniform lifts for full width and length of embankment as wall is laid. Begin at back of wall and place and spread fill toward embankment.
 - 1. Use only hand-operated compaction equipment within **48 inches (1200 mm)** of wall, or one-half of height above bottom of wall, whichever is greater.
 - 2. Compact drainage fill to not less than 95 percent maximum dry unit weight according to ASTM D 698.
 - 3. Compact reinforced soil fill to not less than 95 percent maximum dry unit weight according to ASTM D 698.
 - a. In areas where only hand-operated compaction equipment is allowed, compact to not less than 90 percent maximum dry unit weight according to ASTM D 698.
 - 4. Compact nonreinforced soil fill to comply with Division 2 Section "Earthwork."
- C. Place filter fabric against back of wall and place layer of drainage fill at least [**12 inches (300 mm)**] [**6 inches (150 mm)**] deep behind filter fabric to within **12 inches (300 mm)** of finished grade. Place another layer of filter fabric between drainage fill and soil fill.
- D. Place a layer of drainage fill at least [**12 inches (300 mm)**] [**6 inches (150 mm)**] deep behind wall to within **12 inches (300 mm)** of finished grade. Place a layer of filter fabric between drainage fill and soil fill.
 - 1. Wrap drainage pipe with filter fabric and place in drainage fill as indicated.
 - 2. Place impervious fill over top edge of drainage fill layer.
- E. Place soil reinforcement in horizontal joints of retaining wall where indicated and according to soil reinforcement manufacturer's written instructions. Embed reinforcement a minimum of **8 inches (200 mm)** into retaining wall and stretch tight over compacted backfill. Anchor soil reinforcement before placing fill on it.
 - 1. Place additional soil reinforcement at corners and curved walls to provide continuous reinforcement and to comply with manufacturer's written instructions.
 - 2. Place geosynthetics with seams, if any, oriented perpendicular to segmental retaining walls.
 - 3. Do not dump fill material directly from trucks onto geosynthetics.
 - 4. Place at least **6 inches (150 mm)** of fill over reinforcement before compacting with tracked vehicles or **4 inches (100 mm)** before compacting with rubber-tired vehicles.
 - 5. Do not turn vehicles on fill until first layer of fill is compacted and second layer is placed over each soil-reinforcement layer.

3.4 CONSTRUCTION TOLERANCES

- A. Variation from Level: For bed-joint lines along walls, do not exceed **1-1/4 inches in 10 feet (32 mm in 3 m)**, **3 inches (75 mm)** maximum.

- B. Variation from Indicated Batter: For slope of wall face, do not vary from indicated slope by more than **1-1/4 inches in 10 feet (32 mm in 3 m)**.
- C. Variation from Indicated Wall Line: For walls indicated as straight, do not vary from straight line by more than **1-1/4 inches in 10 feet (32 mm in 3 m)**.

3.5 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified independent geotechnical engineering testing agency to perform field quality-control testing.
- B. Comply with requirements in Division 2 Section "Earthwork" for in-place compaction testing.
 - 1. In each compacted backfill layer, perform at least 1 field in-place compaction test for each [**150 feet (50 m)**] or less of segmental retaining wall length.

3.6 ADJUSTING AND CLEANING

- A. Remove and replace segmental retaining wall construction of the following description:
 - 1. Broken, chipped, stained, or otherwise damaged units. Units may be repaired if methods and results are approved by Architect.
 - 2. Segmental retaining walls that do not match approved Samples and mockups.
 - 3. Segmental retaining walls that do not comply with other requirements indicated.
- B. Replace units so segmental retaining wall matches approved Samples and mockups, complies with other requirements, and shows no evidence of replacement.

END OF SECTION 02832

SECTION 06150

WOOD DECKING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Solid-sawn floor decking.
- B. Related Sections include the following:
 - 1. Division 6 Section "Rough Carpentry" for dimension lumber items associated with wood decking.

1.3 SUBMITTALS

- A. Product Data:
 - 1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treatment plant that treated materials comply with requirements. Indicate type of preservative used, net amount of preservative retained, and chemical treatment manufacturer's written instructions for handling, storing, installing, and finishing treated material.
 - a. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before further fabrication or shipment to Project site.
 - 2. For sealant and installation adhesive.

1.4 QUALITY ASSURANCE

- A. Standard for Solid-Sawn Wood Decking: Comply with AITC 112, "Standard for Tongue-and-Groove Heavy Timber Roof Decking."
- B. Forest Certification: Provide wood decking produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC 1.2, "Principles and Criteria."

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Schedule delivery of wood decking to avoid extended on-site storage and to avoid delaying the Work.
- B. Store materials under cover and protected from weather and contact with damp or wet surfaces. Provide for air circulation within and around stacks and under temporary coverings. Stack wood decking with surfaces that are to be exposed in the final work protected from exposure to sunlight.

PART 2 - PRODUCTS

2.1 LUMBER, GENERAL

- A. General: Comply with DOC PS 20, "American Softwood Lumber Standard," and with applicable grading rules of inspection agencies certified by ALSC's Board of Review.
- B. Grade Stamps: Provide solid-sawn wood decking with each piece factory marked with grade stamp of inspection agency evidencing compliance with grading rule requirements and identifying grading agency, species, grade, moisture content at time of surfacing, and mill. Apply grade stamp to surfaces that will not be exposed to view.
- C. Moisture Content: Provide wood decking with 15 percent maximum moisture content at time of dressing.
- D. Preservative Treatment: Pressure treat solid-sawn wood decking according to AWPA C31 with inorganic boron (SBX) and redry wood to 15 percent maximum moisture content.
 - 1. Use oxine copper (copper-8-quinolinolate) in a light petroleum solvent.
 - 2. Use preservative solution without water repellents or substances that might interfere with application of indicated finishes.

2.2 SOLID-SAWN WOOD DECKING

- A. Decking Species: Douglas fir-larch or Douglas fir-larch (North).
- B. Decking Nominal Size: 2x6.
- C. Decking Grade: Select(ed) Decking.
- D. Decking Grade: Dense Standard Decking.
- E. Face Surface: Smooth.
- F. Edge Pattern: Channel grooved.

2.3 FASTENERS AND ACCESSORY MATERIALS

- A. Fasteners for Solid-Sawn Decking: Provide fastener size and type complying with decking standard for thickness of deck used.
- B. Fastener Material: Hot-dip galvanized steel.
- C. Sealant: Elastomeric joint sealant complying with requirements in Division 7 Section "Joint Sealants" for Use NT (nontraffic) and for Uses M, G, A, and, as applicable to joint substrates indicated, O joint substrates.
- D. Penetrating Sealer: Clear sanding sealer complying with Division 9 painting Sections and compatible with topcoats specified for use over it.

2.4 FABRICATION

- A. Shop Fabrication: Where preservative-treated decking is indicated, complete cutting, trimming, surfacing, and sanding before treating.
- B. Fabricate decking in lengths for controlled random lay-up.
- C. Seal Coat: After fabricating and surfacing decking, apply a saturation coat of penetrating sealer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls and support framing in areas to receive wood decking for compliance with installation tolerances and other conditions affecting performance of wood decking.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install solid-sawn wood decking to comply with referenced standard and with end joints located according to lay-up indicated.
 - a. Use 6d nails for 2x6 and 2x8 decking.
- B. Where preservative-treated decking must be cut during erection, apply a field-treatment preservative to comply with AWPA M4.
 - 1. Use inorganic boron (SBX) treatment.
- C. Apply joint sealant to seal roof decking at exterior walls at the following locations:
 - 1. Between decking and supports located at exterior walls.
 - 2. Between decking and exterior walls that butt against underside of decking.

3. Between tongues and grooves of decking over exterior walls and supports at exterior walls.

3.3 ADJUSTING

- A. Repair damaged surfaces and finishes after completing erection. Replace damaged decking if repairs are not approved by Architect.

3.4 PROTECTION

- A. Provide temporary waterproof covering to protect exposed decking before applying roofing.

END OF SECTION 06150

SECTION 06 185

STRUCTURAL GLUED-LAMINATED TIMBER

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes framing using structural glued-laminated timbers.
- B. Related Sections include the following:
 - 1. Division 6 Section "Rough Carpentry" for dimension lumber items associated with structural glued-laminated timber construction.
 - 2. Division 6 Section "Wood Decking" for wood roof decking.

1.3 DEFINITIONS

- A. Structural Glued-Laminated (Glulam) Timber: An engineered, stress-rated timber product assembled from selected and prepared wood laminations bonded together with adhesives and with the grain of the laminations approximately parallel longitudinally.

1.4 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide structural glued-laminated timber, including connectors, capable of withstanding structural loads shown on Drawings without exceeding allowable design working stresses listed in AITC 117--DESIGN or determined according to ASTM D 3737 and acceptable to authorities having jurisdiction.
- B. Seismic Performance: Provide structural glued-laminated timber, including connectors, capable of withstanding the effects of earthquake motions determined according to ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 9, "Earthquake Loads."
 - 1. Seismic Design Criteria:
 - a. Seismic Use Group – 1
 - b. Seismic Site Class – D
 - c. Seismic Design Category – C
 - d. Seismic Importance Factor $I_e = 1.0$
 - e. Spectral Response Acceleration Coefficient, $S_d5=0.260$, $S_d1=0.170$
 - f. Response Modification Factor – $R = 2.0$

1.5 SUBMITTALS

- A. Product Data: For structural glued-laminated timber and connectors.
 - 1. Include data on lumber, adhesives, fabrication, and protection.
 - 2. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treatment plant that treated materials comply with requirements. Indicate type of preservative used, net amount of preservative retained, and chemical treatment manufacturer's written instructions for handling, storing, installing, and finishing treated materials.
 - 3. Include installation instructions for timber connectors.
- B. Shop Drawings: Show layout of structural glued-laminated timber system and full dimensions of each member. Indicate species and laminating combination, adhesive type, and other variables in required work.
 - 1. Include large-scale details of connections.
 - 2. For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- C. Samples: Full width and depth, 24 inches (600 mm) long, showing the range of variation to be expected in appearance of structural glued-laminated timber, including variations due to specified treatment].
 - 1. Apply specified factory finish to three sides of half-length of each Sample.
- D. Certificates of Conformance: Issued by a qualified testing and inspecting agency indicating that structural glued-laminated timber complies with requirements in AITC A190.1.
- E. Qualification Data: For manufacturer.
- F. Research/Evaluation Reports: For structural glued-laminated timber and connectors.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Provide factory-glued structural units produced by an AITC- or APA-licensed firm.
 - 1. Factory mark each piece of structural glued-laminated timber with AITC Quality Mark or APA trademark. Place mark on surfaces that will not be exposed in the completed Work.
- B. Quality Standard: Comply with AITC A190.1, "Structural Glue Laminated Timber."
- C. Forest Certification: Provide structural glued-laminated timber produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC 1.2, "Principles and Criteria."

1.7 DELIVERY, STORAGE, AND HANDLING

- A. General: Comply with provisions in AITC 111, "Recommended Practice for Protection of Structural Glued Laminated Timber during Transit, Storage, and Erection."
- B. Individually wrap members using plastic-coated paper covering with water-resistant seams.

PART 2 - PRODUCTS

2.1 STRUCTURAL GLUED-LAMINATED TIMBER

- A. General: Provide structural glued-laminated timber that complies with AITC 117--MANUFACTURING or research/evaluation reports acceptable to authorities having jurisdiction.
 - 1. Provide structural glued-laminated timber made from a single species.
- B. Species and Grades for Structural Glued-Laminated Timber: Provide structural glued-laminated timber made from Douglas fir-larch in grades needed to comply with Part 1 "Performance Requirements" Article.
- C. Species and Grades for Beams: Provide structural glued-laminated timber that complies with AITC 117--MANUFACTURING or research/evaluation reports acceptable to authorities having jurisdiction and the following:
 - 1. Species and Beam Stress Classification: Douglas fir-larch, 24F-1.8E.
 - 2. Lay-up: Balanced.
- D. Appearance Grade: Architectural appearance grade, complying with AITC 110.
- E. Preservative Treatment: Where preservative-treated structural glued-laminated timber is indicated, pressure treat after fabrication according to AWPA C28.
 - 1. Use oxine copper (copper-8-quinolinolate) in a light petroleum solvent.
 - 2. Use preservative solution without water repellents or substances that might interfere with application of indicated finishes.
- F. Preservative Treatment: Where preservative-treated structural glued-laminated timber is indicated, pressure treat lumber before gluing according to AWPA C28.
 - 1. Use oxine copper (copper-8-quinolinolate) in a light petroleum solvent.
 - 2. Use preservative solution without water repellents or substances that might interfere with application of indicated finishes.
 - 3. After dressing and fabricating members, apply a field-treatment preservative to comply with AWPA M4 to surfaces cut to a depth of more than 1/16 inch (1.5 mm).
 - a. Use inorganic boron (SBX) treatment for members not in contact with the ground and continuously protected from liquid water.
- G. Adhesive: Wet-use type complying with ASTM D 2559.

- H. End Sealer: Manufacturer's standard, transparent, colorless wood sealer that is effective in retarding the transmission of moisture at cross-grain cuts and is compatible with indicated finish.
- I. Penetrating Sealer: Manufacturer's standard, transparent, penetrating wood sealer that is compatible with indicated finish.

2.2 TIMBER CONNECTORS

- A. General: Unless otherwise indicated, fabricate from the following materials:
 - 1. Structural-steel shapes, plates, and flat bars complying with ASTM A 36/A 36M.
 - 2. Round steel bars complying with ASTM A 575, Grade M 1020.
 - 3. Hot-rolled steel sheet complying with ASTM A 1011/A 1011M, Structural Steel, Type SS, Grade 33.
 - 4. Stainless-steel plate and flat bars complying with ASTM A 666, Type 304.
 - 5. Stainless-steel bars and shapes complying with ASTM A 276, Type 304.
 - 6. Stainless-steel sheet complying with ASTM A 666, Type 304.
- B. Fabricate beam seats from stainless steel with 3/8-inch (9.5-mm) bearing plates, 3/4-inch- (19-mm-) diameter-by-12-inch- (300-mm-) long deformed bar anchors, and 0.239-inch (6-mm) side plates.
- C. Fabricate arch base shoes from stainless steel with 1-inch (25-mm) base plates and 3/8-inch (9.5-mm) side plates.
- D. Fabricate beam hangers from steel stainless steel with 0.179-inch (4.6-mm) stirrups and 0.239-inch (6-mm) top plates.
- E. Fabricate hinge connectors from stainless steel with 0.179-inch (4.6-mm) side plates and 3/4-inch (19-mm) top and bottom plates.
- F. Fabricate strap ties from stainless steel, 3 inches (75 mm) wide by 0.239 inch (6 mm) thick.
- G. Fabricate tie rods from round steel bars with upset threads connected with forged-steel turnbuckles complying with ASTM A 668/A 668M.
- H. Provide bolts, 3/4 inch (19 mm), unless otherwise indicated, complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); nuts complying with ASTM A 563 (ASTM A 563M); and, where indicated, flat washers.
- I. Provide shear plates, 4 inches (102 mm) in diameter, complying with ASTM D 5933.
- J. Finish steel assemblies and fasteners with rust-inhibitive primer, 2-mil (0.05-mm) dry film thickness.
- K. Hot-dip galvanize steel assemblies and fasteners after fabrication to comply with ASTM A 123/A 123M or ASTM A 153/A 153M.

2.3 FABRICATION

- A. Shop fabricate for connections to greatest extent possible, including cutting to length and drilling bolt holes.
 - 1. Dress exposed surfaces to remove planing or surfacing marks and to provide a finish equivalent to that produced by machine sanding with No. 120 grit sandpaper.
- B. Camber: Fabricate horizontal and inclined members of less than 1:1 slope with either circular or parabolic camber equal to 1/500 of span.
- C. End-Cut Sealing: Immediately after end-cutting each member to final length and after preservative treatment, apply a saturation coat of end sealer to ends and other cross-cut surfaces, keeping surfaces flood-coated for not less than 10 minutes.
- D. Seal Coat: After fabricating, sanding, and end-coat sealing, apply a heavy saturation coat of penetrating sealer on surfaces of each unit, except for preservative-treated wood where treatment included a water repellent.

2.4 FACTORY FINISHING

- A. Clear Finish: Manufacturer's standard, two-coat, clear conversion varnish finish; oven dried and resistant to mildew and fungus.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates in areas to receive structural glued-laminated timber, with Installer present, for compliance with requirements, installation tolerances, and other conditions affecting performance of structural glued-laminated timber.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Erect structural glued-laminated timber true and plumb, with uniform, close-fitting joints. Provide temporary bracing to maintain lines and levels until permanent supporting members are in place.
 - 1. Lift with padded slings and protect corners with wood blocking.
 - 2. Install structural glued-laminated timber to comply with Shop Drawings.
 - 3. Install timber connectors as indicated.
- B. Framing Built into Masonry: Provide **1/2-inch (13-mm)** clearance at tops, sides, and ends of members built into masonry; bevel cut ends **3 inches (76 mm)**; and do not embed more than **4 inches (102 mm)**, unless otherwise indicated.

- C. Fit structural glued-laminated timber by cutting and restoring exposed surfaces to match specified surfacing and finishing.
 - 1. Predrill for fasteners using timber connectors as templates.
 - 2. Dress exposed surfaces to remove planing or surfacing marks and to provide a finish equivalent to that produced by machine sanding with No. 120 grit sandpaper.
 - 3. Coat crosscuts with end sealer.
 - 4. Where preservative-treated members must be cut during erection, apply a field-treatment preservative to comply with AWWA M4.
 - a. Use inorganic boron (SBX) treatment for members not in contact with the ground and continuously protected from liquid water.

- D. Cutting: Avoid extra cutting after fabrication. Where field fitting is unavoidable, comply with requirements for shop fabrication.
 - 1. Where preservative-treated members must be cut during erection, apply a field-treatment preservative to comply with AWWA M4.
 - a. Use inorganic boron (SBX) treatment for members not in contact with the ground and continuously protected from liquid water.

3.3 ADJUSTING

- A. Repair damaged surfaces and finishes after completing erection. Replace damaged structural glued-laminated timber if repairs are not approved by Architect.

3.4 PROTECTION

- A. Do not remove wrappings on individually wrapped members until they no longer serve a useful purpose including protection from weather, sunlight, soiling, and damage from work of other trades.
 - 1. Coordinate wrapping removal with finishing work specified in Division 9. Retain wrapping where it can serve as a painting shield.

END OF SECTION 06185

**EXHIBIT D - LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR
OR
PROVIDE MATERIALS OR SERVICES**

This form **must** be completed by **ALL** known subcontractor and submitted with the bid/proposal. The Prime Contractor **must** submit Letters of Intent for **ALL** known subcontractors at time of bid submission.

To: _____
(Name of Prime Contractor Firm)

From: _____
(Name of Subcontractor Firm)

ITB/RFP Number: _____

Project Name: _____

The undersigned is prepared to perform the following described work or provide materials or services in connection with the above project (specify in detail particular work items, materials, or services to be performed or provided):

Description of Work	Project Commence Date	Project Completion Date	Estimated Dollar Amount

(Prime Bidder)

(Subcontractor)

Signature _____

Signature _____

Title _____

Title _____

Date _____

Date _____

EXHIBIT E - DECLARATION REGARDING SUBCONTRACTING PRACTICES

If the bidder/proposer **does not intend to subcontract** any portion of the scope of work services(s), this form **must be** completed and submitted with the bid/proposal.

_____ hereby declares that it is my/our intent to
(Bidder)

perform 100% of the work required for _____
(ITB/RFP Number)

(Description of Work)

In making this declaration, the bidder/proposer states the following:

1. That the bidder/proposer does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform **all elements** of the work on this project with his/her own current work forces;
2. If it should become necessary to subcontract some portion of the work at a later date, the bidder/proposer will comply with all requirements of the County's Non-Discrimination Ordinance in providing equal opportunities to all firms to subcontract the work. The determination to subcontract some portion of the work at a later date shall be made in good faith and the County reserves the right to require additional information to substantiate a decision made by the bidder/proposer to subcontract work following the award of the contract. Nothing contained in this provision shall be employed to circumvent the spirit and intent of the County's Non-Discrimination Ordinances;
3. The bidder will provide, upon request, information sufficient for the County to verify Item Number one.

AUTHORIZED COMPANY REPRESENTATIVE

Name: _____ Title: _____ Date: _____

Signature: _____

Firm: _____

Address: _____

Phone Number: _____

Fax Number: _____

Email Address: _____