

PROJECT SPECIFICATIONS

INSURANCE REQUIREMENTS:

The Contractor shall purchase and maintain at its expense the following types of insurance, issued by companies acceptable to the Commonwealth.

Workmen's Compensation Insurance. Sufficient to cover all of the employees of the Contractor, working to fulfill this contract.

Comprehensive General Liability Insurance. To include bodily injury and property damage insurance, to protect the Commonwealth, the Contractor or any Sub-Contractors from claims arising out of the performance of the contract. The amount of bodily injury insurance shall not be less than \$300,000 for injury to or death of persons per occurrence. The amount of property damage insurance shall not be less than \$300,000 per occurrence. Certificates evidencing coverage for Workmen's Compensation, Public Liability and Property Damage shall be furnished if requested.

Special Hazard. Special hazards, if there is a possibility of such hazard existing in the work contemplated, this shall be covered by separate insurance or by rider(s) to other required policy(s). Possible hazards, such as blasting, explosion, and fire on insurable items shall be so covered.

Policy or Policies in duplicate to accomplish insurance as above described, shall be written on either a Builder's Risk Form or Alterations and Additions Form or Installation Floater Form, whichever, is applicable, and shall be filed, upon request, with the Pennsylvania Game Commission before starting the work. Duplicate certificates of insurance for the Installation Floater covering this project will be acceptable.

All policies shall be issued by Insurance Companies authorized to conduct such business under the laws of the Commonwealth of Pennsylvania and shall run until date of final acceptance of the work. Policies expiring at a fixed date before final acceptance of the work must be renewed and refiled before such date.

OBSERVANCE OF LAWS AND REGULATIONS. The contractor shall observe all laws and regulations pertaining to his work, including regulations of the Department of Labor and Industry, the Department of Environmental Resources, the applicable local laws or ordinances, and shall furnish as required any permits, licenses and certificates and pay any fees incidental thereto. The Contractor agrees to save harmless and fully indemnify the Commonwealth from all damages, costs or expenses for infringement of any patent rights as a result of use on the project of patented articles.

INSPECTION AND CHANGES. All work will be subject to inspection and acceptance by the Pennsylvania Game Commission. The Pennsylvania Department of Labor & Industry will also be conducting inspections for conformance with building code regulations. The Pennsylvania Game Commission shall have the right to make changes in the quantities or character of the work involved. Adjustments to the contract amount to be on the unit price and/or lump sum price.

TEMPORARY SERVICES AND JOB CONDITIONS. The contractor shall be responsible for providing temporary facilities and utilities necessary to execute and protect his work. The

contractor shall accept all conditions as found by him upon examination of the site. He shall cooperate in the arrangements of his work as necessary to least affect the administration or operations of present buildings and shall keep the site clean at all times. If such modifications materially increase the unit cost of work, the increased expense will be paid by the Commission following execution of a Change Order in a dollar amount determined by the Commission, in its sole discretion, to be fair and reasonable. If such modifications diminish the unit cost of the work, the amount of said diminution may be retained or withheld by the Commission. No consequent loss of anticipated profit on work not executed will be paid to the Contractor.

LABOR REQUIREMENTS. All laws and regulations of the Commonwealth pertaining to conditions of employment shall be observed including, but not limited to, the Act of July 18, 1935, No. 383 (43 P.S. Sec. 153) prohibiting racial discrimination, Act of July 19, 1935, No. 414 (43 P.S. Sec. 154) requiring hiring of state resident, the Act of June 21, 1937, No. 373 (71 P.S. Sec. 202) relating to minimum wages and the veteran's preference provision of the Military Code (51 Pa. P.S. Sec. 7106). Prevailing minimum wages do not apply to this project.

PAYMENT TERMS. Payment will be made at the unit prices bid for each item upon satisfactory completion of items as listed on the Proposal Form.

If after substantial completion of work, final completion thereof is materially delayed through no fault of the Contractor, the Commission, may without terminating the Contract, make payment for that portion of the work completed and accepted. Upon completion, final approval and acceptance of work, the Contractor, will be paid the total amount of the Contract, subject to any authorized additions to or deductions from the Contract amount.

CONTRACT TERM. The Contract shall commence upon delivery of purchase order to Contractor (estimated to be November 4, 2019) and shall terminate on December 6, 2019. All work must be completed and accepted by that date. Time extensions will be considered for factors beyond the contractor's control such as adverse weather conditions.

EXCISE TAXES, PENNSYLVANIA SALES TAX. It is further understood the Commonwealth is exempt from all Excise Taxes. This also applies with reference to the Pennsylvania Sales Tax, however, the Contractor remains liable for the payment of Sale and Use Tax on all materials and fixtures which are purchased or used for the purpose of fulfilling this contract, irrespective of the fact that the work is being performed for a governmental instrumentality.

OFFSET PROVISION. The Contractor agrees that the Commonwealth may set off the amount of any state liability or other debt of the Contractor or its subsidiaries that is owed to the Commonwealth and not being contested on appeal against any payments due the contractor under this or any other contract with the Commonwealth.

**PENNSYLVANIA GAME COMMISSION
CONDITIONS FOR CONSTRUCTION CONTRACTS**

The Contractor shall comply with the conditions listed below for this construction contract.

1. **Steel Products Procurement Act**

In accordance with the Act of March 3, 1978 (P.L. 6, No. 3), as amended, known as the "Steel Products Procurement Act" (73 P.S. Section 1881 et seq.), the Contractor, subcontractors, material men, or suppliers shall use only steel products produced in the United States. "Steel products" mean products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed by a combination of two or more of such operations, from steel made in the United States by the open hearth, basic oxygen, electric furnace, Bessemer, or other steel making process, including cast iron products. With each shipment of steel or cast iron products delivered to the project site, the Contractor shall provide evidence to the Game Commission's field representative that such steel products comply with the Act. When Unidentified Steel Products are supplied, the Contractor must provide documentation which includes, but is not limited to: invoices, bills of lading, and mill certification that the steel was melted and manufactured in the United States, which establishes that the Contractor has fully complied with the Act. If a steel product is identifiable from its face, the Contractor must provide certification that it has fully complied with the Act.

The definition of steel products shall include machinery and equipment listed in United States Department of Commerce Standard Industrial Classification 25 (furniture and fixture), 35 (machinery, except electrical) and 37 (transportation equipment) and made of, fabricated from, or containing steel components. If a product contains both foreign and United States steel, such product shall be determined to be a United States steel product only if at least 75% of the cost of the articles, materials and supplies have been mined, produced or manufactured, as the case may be, in the United States. Transportation equipment shall be determined to be a United States steel product if it complies with Section 165 of Public Law 97-424 (96 Stat. 2136).

The Commission shall not provide for, or make any payments to, any person who has not complied with the Act. Any such payments made to any person by the Commission which should not have been made as a result of the Act shall be recoverable directly from the Contractor or subcontractor who did not comply with the Act. In addition to the above penalties, any person who willfully violates the provisions of the Act shall be subject to other penalties outlined in the Act.

2. **Trade Practices Act**

In accordance with the Act of July 23, 1968 (P.L. 686, No. 226), as amended, known as the "Trade Practices Act" (71 P.S. Section 773.101 et seq.) the Contractor shall not use or permit to be used in the work any aluminum or steel products made in a foreign country which is listed below as a foreign country which discriminates against aluminum or steel products manufactured in Pennsylvania. The countries of Brazil, Spain, South Korea, and Argentina have been found to discriminate against certain products manufactured in Pennsylvania. Therefore, the use of those countries' products, as listed below, are not permitted:

- a. Brazil: welded carbon steel pipes and tubes; carbon steel wire rod; tool steel; certain stainless steel products including hot-rolled stainless steel bar; stainless steel wire rod and cold-formed stainless steel bar; prestressed concrete steel wire strand; hot-rolled carbon steel plate in coil; hot-rolled carbon steel sheet; and cold-rolled carbon steel sheet.
- b. Spain: certain stainless steel products, including stainless steel wire rod, hot-rolled stainless steel bars; and cold-formed stainless steel bars; prestressed concrete steel wire strand; and certain steel products including hot-rolled steel plate, cold-rolled carbon steel plate, carbon steel structural shapes, galvanized carbon steel sheet, hot-rolled carbon steel bars, and cold-formed carbon steel bars.
- c. South Korea: welded carbon steel pipes and tubes; hot-rolled carbon steel plate; hot-rolled carbon steel sheet; and galvanized steel sheet.
- d. Argentina: carbon steel wire rod and cold-rolled carbon steel sheet.

Penalties for violation of this paragraph may be found in the Trade Practices Act, which penalties include becoming ineligible for public works contracts for a period of three (3) years. This paragraph in no way relieves the Contractor of responsibility to comply with the provisions of the Steel Products Procurement Act described herein.

3. **Reciprocal Limitations Act**

The form GSPUR89 (Reciprocal Limitations Act Requirements) is attached. The Contractor shall complete the applicable portions of pages 3 and 4 of the form and submit the completed pages to the Game Commission for processing of the purchase order for the project.

RECIPROCAL LIMITATIONS ACT REQUIREMENTS

Please Complete Applicable Portion of Pages 3 & 4 and Return with Bid.

NOTE: These Requirements Do Not Apply To Bids Under \$10,000.00

I. REQUIREMENTS

- A. The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering supplies produced, manufactured, mined or grown in Pennsylvania as against those bidders offering supplies produced, manufactured, mined or grown in any state that gives or requires a preference to supplies produced, manufactured, mined or grown in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular supply.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state supplies and the amount of the preference:

STATE	PREFERENCE
1. Alaska	7% (applies only to timber, lumber, and manufactured lumber products originating in the state)
2. Arizona	5% (construction materials produced or manufactured in the state only)
3. Hawaii	10%
4. Illinois	10% for coal only
5. Iowa	5% for coal only
6. Louisiana	4% meat and meat products 4% catfish 10% milk & dairy products 10% steel rolled in Louisiana 7% all other products
7. Montana	5% for residents * 3% for non-residents* *offering in-state goods, supplies, equipment and materials
8. New Mexico	5%
9. New York	3% for purchase of food only
10. Oklahoma	5%
11. Virginia	4% for coal only
12. Washington	5% (fuels mined or produced in the state only)
13. Wyoming	5%

- B. The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering printing performed in Pennsylvania as against those bidders offering printing performed in any state that gives or requires a preference to printing performed in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular category of printing.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state printing and the amount of the preference:

STATE	PREFERENCE
1. Hawaii	15%
2. Idaho	10%
3. Louisiana	3%
4. Montana	8%
5. New Mexico	5%
6. Wyoming	10%

- C. The Reciprocal Limitations Act, also requires the Commonwealth to give resident bidders a preference against a nonresident bidder from any state that gives or requires a preference to bidders from that state or exclude bidders from states that exclude nonresident bidders. The amount of the preference shall be equal to the amount of the preference applied by the state of the nonresident bidder. The following is a list of the states which have been found by the Department of General Services to have applied a preference for in-state bidders and the amount of the preference:

STATE	PREFERENCE
1. Alaska	5% (supplies only)
2. Arizona	5% (construction materials from Arizona resident dealers only)
3. California	5% (for supply contracts only in excess of \$100,000.00)
4. Connecticut	10% (for supplies only)
5. Montana	3%
6. New Mexico	5% (for supplies only)
7. South Carolina	2% (under \$2,500,000.00) 1% (over \$2,500,000.00)
	This preference does not apply to construction contracts nor where the price of a single unit exceeds \$10,000.
8. West Virginia	2.5% (for the construction, repair or improvement of any buildings)
9. Wyoming	5%

STATE	PROHIBITION
1. New Jersey	For supply procurements or construction projects restricted to Department of General Services Certified Small Businesses, New Jersey bidders shall be excluded from award even if they themselves are Department of General Services Certified Small Businesses.

D. The Reciprocal Limitations Act also requires the Commonwealth not to specify, use or purchase supplies which are produced, manufactured, mined or grown in any state that prohibits the specification for, use, or purchase of such items in or on its public buildings or other works, when such items are not produced, manufactured, mined or grown in such state. The following is a list of the states which have been found by the Department of General Services to have prohibited the use of out-of-state supplies:

STATE	PROHIBITION
1. Alabama	Only for printing and binding involving "messages of the Governor to the Legislature", all bills, documents and reports ordered by and for the use of the Legislature or either house thereof while in session; all blanks, circulars, notices and forms used in the office of or ordered by the Governor, or by any state official, board, commission, bureau or department, or by the clerks of the supreme court . . . /and other appellate courts/; and all blanks and forms ordered by and for the use of the Senate and Clerk or the House of Representatives, and binding the original records and opinions of the Supreme Court . . . /and other appellate courts/
2. Georgia	Forest products only
3. Indiana	Coal
4. Michigan	Printing
5. New Mexico	Construction
6. Ohio	Only for House and Senate bills, general and local laws, and joint resolutions; the journals and bulletins of the Senate and house of Representatives and reports, communications, and other documents which form part of the journals; reports, communications, and other documents ordered by the General Assembly, or either House, or by the executive department or elective state officers; blanks, circulars, and other work for the use of the executive departments, and elective state officers; and opinions of the Attorney General.
7. Rhode Island	Only for food for state institutions.

*If the bid discloses that the bidder is offering to supply one of the above-listed products that is manufactured, mined, or grown in the listed state, it shall be rejected. Contractors are prohibited from supplying these items from these states.

II. CALCULATION OF PREFERENCE

In calculating the preference, the amount of a bid submitted by a Pennsylvania bidder shall be reduced by the percentage preference which would be given to a nonresident bidder by its state of residency (as found by the Department of General Services in Paragraph C_{above}). Similarly, the amount of a bid offering Pennsylvania goods, supplies, equipment or materials shall be reduced by the percentage preference which would be given to another bidder by the state where the goods, supplies, equipment or materials are produced, manufactured, mined or grown (as found by the Department of General Services in Paragraphs A and B above).

THIS FORM MUST BE COMPLETED AND RETURNED WITH THE BID

III. STATE OF MANUFACTURE

All bidders must complete the following chart by listing the name of the manufacturer and the state (or foreign country) of manufacture for each item. If the item is domestically produced, the bidder must indicate the state in the United States where the item will be manufactured. **This chart must be completed and submitted with the bid or no later than two (2) business days after notification from the Issuing Office to furnish the information. Failure to complete this chart and provide the required information prior to the expiration of the second business day after notification shall result in the rejection of the bid.**

ITEM NUMBER	NAME OF MANUFACTURER	STATE (OR FOREIGN COUNTRY) OF MANUFACTURE

IV. BIDDER'S RESIDENCY

- A. In determining whether the bidder is a nonresident bidder from a state that gives or requires a preference to bidders from that state, the address given on the first page of this invitation to bid shall be used by the Commonwealth. If that address is incorrect, or if no address is given, the correct address should be provided in the space below:

Correct Address: _____

B. In order to claim the preference provided under Section I.B., Pennsylvania resident bidders must complete the following or have such information on file with the Issuing Office:

1. Address of bidder's bona fide establishment in Pennsylvania at which it was transacting business on the date when bids for this contract/requisition were first solicited: _____

2. a. If the bidder is a corporation:

(1) The corporation is or is not incorporated under the laws of the Commonwealth of Pennsylvania.

(a) If the bidder is incorporated under the laws of the Commonwealth of Pennsylvania, provide date of incorporation: _____

(b) If the bidder is not incorporated under the laws of the Commonwealth of Pennsylvania, it must have a certificate of authority to do business in the Commonwealth of Pennsylvania from the Pennsylvania Department of State as required by the Pennsylvania Business Corporation Law (15 P.S. §2001). Provide date of issuance of certificate of authority: _____

(2) The corporation is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must register the fictitious name with the Secretary of the Commonwealth and the office of the prothonotary of the county wherein the registered office of such corporation is located as required by the Fictitious Corporate Name Act, as amended 15 P.S. §51 et seq. Corporate bidders conducting business under an assumed or fictitious name must provide date of registry of the assumed or fictitious name: _____

b. If the bidder is a partnership:

(1) The partnership is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must file with the Secretary of the Commonwealth and the office of the prothonotary of the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended 54 P.S. §28.1. Partnerships conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth: _____

(2) The partnership is or is not a limited partnership formed under the laws of any jurisdiction other than the Commonwealth of Pennsylvania. If the bidder is an Out-of-state limited partnership, it must register with the Pennsylvania Department of State as required by the Act of July 10, 1981, P.L. 237, as amended, 59 Pa. C.S.A. §503. Out-of-state limited partnerships must provide the date of registry with the Pennsylvania Department of State: _____

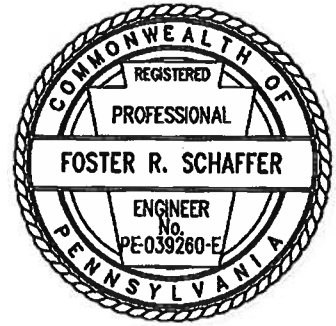
c. If the bidder is an individual:

He or she is or is not conducting business under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, he or she must file with the Secretary of the Commonwealth and the office of the prothonotary in the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended, 54 P.S. §28.1. Individuals conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth: _____



Foster Schaffer, P.E., Project Engineer
Pennsylvania Game Commission

10/9/19
Date



TECHNICAL SPECIFICATIONS

The following stipulations, specifications and description of work are defined and described as Technical Specifications and it is understood and agreed that everything herein contained is hereby made part of the contract. Wherever any feature of the work is not fully set forth in these Technical Specifications, it must be understood that the same shall be governed by the rules of the best prevailing practice for that class of work, as determined by the Game Commission's Representative.

These Technical Specifications and any drawings, maps and/or plans forming a part thereof, will cover the furnishing of all labor, technical assistance, equipment, tools and materials necessary to perform the design and construction work, as required under this contract.

- Section 1 – Summary of Work
- Section 2 – Excavation
- Section 3 – Post Foundations
- Section 4 – Framing Lumber and Carpentry
- Section 5 – Standing Seam Metal Roof
- Section 6 – Soffits and Fascia
- Section 7 – Aluminum Cladding
- Section 8 – Landscaping Stone

DRAWINGS

The following drawing is included:

1 of 1 Location Map, Site Plan, Details and Notes

TECHNICAL SPECIFICATION SECTION 1 - SUMMARY OF WORK

1.1 – SCOPE OF PROJECT

The intent of this project is to construct a roof over the sidewalk at the employee entrance to the Game Commission's Northwest Regional Office (NWRO) building in Sandy Creek Township, Venango County. The project consists of removing some gutters from the existing roof, stripping sod and augering post holes, setting posts on concrete foundations, framing the new roof extension, installing standing seam metal roof panels, installing soffits and fascia, installing cladding on the posts and placing landscaping stone under the new roof.

1.2 – WORK AREA

The work area for this project is at the Northwest Regional Office building which is about 1 mile south of the City of Franklin in west central Venango County. The address of the building is 1509 Pittsburgh Road, Franklin, PA 16323. The property is owned by the Pennsylvania Game Commission (PGC).

1.3 – WORK HOURS

The work hours at the project site are during regular PGC business hours which are Monday through Friday, 7:45AM to 4:00PM. Work during different hours must have prior written approval by the PGC. Requests for different working hours must be submitted in writing two days in advance.

1.4 – ACCESS TO WORK AREA

Use the existing paved driveway and parking lot to access the work area and building. The driveway connects to PA Route 8. The PGC will designate an area of the existing parking lot for the contractor to use. The contractor shall install barricades, warning tape, cones, etc. to protect the work area including the section of the parking lot where materials and equipment are stored for the project. The contractor can use the existing utilities at the site (water, electric); coordinate with the PGC staff at the site for connection to utilities.

1.5 – PERMITS, LAWS AND REGULATIONS

The Contractor shall procure and pay for all permits, licenses, inspections, conveniences, or other approvals necessary for the execution of the contract. The PGC will obtain a building permit from the PA Department of Labor & Industry (L&I) for construction of this project. The PGC has already submitted the required permit application to L&I. A copy of this permit will be supplied to the contractor after it is obtained. The PGC is not aware of any other permits required for this project. Local building code officials have no jurisdiction over this project. The Contractor shall coordinate with the PGC so that the required inspections take place and the project is not unduly delayed.

The Contractor shall comply with all laws, ordinances, rules, orders and regulations relating to the performance of the work, the protection of adjacent property, the maintaining of surface passageways, guard fences, and/or other protective facilities.

All applicable Federal and State laws and regulations, municipal ordinances and rules and regulations of all authorities, having jurisdiction over construction of the project shall apply to the contract throughout, and they shall be deemed to be included in the contract as a part, thereof, the same as though herein written out in full.

All regulations of the Occupational Safety and Health Act are in effect on this contract. It will be the Contractor's responsibility to make himself aware of all appropriate County, State and Federal regulations that apply to this contract.

Any violations incurred from improper execution of the above provisions shall be paid for by the Contractor. Loss of time on the project from such violations will not be tolerated.

TECHNICAL SPECIFICATION SECTION NO. 2 - EXCAVATION

2.1- SCOPE

This work is removal, hauling, and disposal of all materials encountered for construction of the new sidewalk roof as indicated on the Drawing.

2.2 - PROCEDURE

A. General - Follow all guidelines set forth in the Construction Industry Standards, OSHA 2207, of the Occupational Safety and Health Administration, U.S. Department of Labor. Protect the work, adjacent roadways, and property.

The Contractor is required to contact the PA One Call System at 1-800-242-1776 prior to excavation operations at the site.

The Contractor is responsible for laying out the locations of the new roof posts. Do not over-excavate because unauthorized excavation and replacement of materials in the over-excavated areas will not be measured and paid for. Replace over-excavated work with concrete, gravel, earth or other materials designated by, and at no additional cost to the Game Commission.

B. Stripping - Remove sod and soil to a depth of 6-inches within the limits shown on the Drawing.

C. Post Holes – Auger 18-inch diameter holes to a depth of 36-inches for the five roof posts.

D. Disposal – Suitable excavated materials can be used for backfill around the installed posts. Compact this material to hold the posts in place plumb and even. Excess material is to be removed from the site and spoiled. The PGC does not have a spoil area for this material.

2.3 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 3 – POST FOUNDATIONS

3.1 - SCOPE

This work is placing concrete in the bottom of the augered holes to form a foundation for the roof posts as shown on the drawings.

3.2 - MATERIALS

A. Concrete – Pre-packaged bag mix consisting of cement, sand and aggregate with 4,000 psi compressive strength conforming to the requirements of ASTM C387.

B. Rebar - Steel bars for post foundations shall be grade 60, #8 bar (14-inches long), deformed and shall conform with all the provisions of one of the standards listed below.

- 1 ASTM Designation A615 "Standard Specification for Deformed and Plain Steel Bars for concrete Reinforcement,"
- 2 ASTM Designation A616 "Standard Specification for Rail-Steel Deformed and Plain Bars for Concrete Reinforcement," or
- 3 ASTM Designation A617 "Standard Specification for Axle-Steel Deformed and Plain Bars for Concrete Reinforcement."

3.3 - PROCEDURE

Mix the concrete according to the manufacturer's recommendations. Place concrete to a depth of 6-inches in the bottom of the augered holes. Consolidate the concrete and level it to provide a flat surface for the posts. Allow the concrete to cure for 12-hours.

Drill holes through the bottom of the posts and install a rebar through the hole. Set the posts into the holes and rest on the cured concrete pads. Install braces to keep the posts plumb and even in the holes. Mix additional concrete and place it around the holes and rebar to a depth of 6-inches. Consolidate the concrete around the posts. Allow the concrete to cure for at least 12-hours before backfilling the augered holes.

3.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 4 – FRAMING LUMBER AND CARPENTRY

4.1 - SCOPE

This work is providing and installing the lumber and fasteners necessary to frame the structure of the roof.

4.2 - MATERIALS

A. Dimension Lumber – The lumber used to frame the building should be of the sizes, spacing and arrangement shown on the Drawings. The lumber should conform to the following requirements.

1. Grading Agency – Southern Pine Inspection Bureau, Inc. (SPIB)
2. Nominal sizes – as indicated on the Drawings, S4S.
3. Moisture content – S-dry or MC19
4. Structural Grade – No. 2

B. Plywood – Structural composite lumber made from wood veneers with grain primarily parallel to member lengths, evaluated and monitored according to ASTM D5456 and manufactured with an exterior-type adhesive complying with ASTM D2559. The plywood shall have at least 2,600 psi extreme fiber stress in bending.

C. Wood Posts – The wood posts can be dimensional treated posts or glue laminated columns manufactured from #1 Southern Yellow Pine with the lower portions pressure treated to 0.60 pcf with CCA in compliance with AWWA C28. The pressure treated portion of the wood posts shall extend at least one foot above the finished grade.

D. Fasteners – Of the sizes and type suited for the applications. Refer to the fastener schedule on the drawing.

1. Nails, Brads and Staples: ASTM F1667
2. Power-Driven Fasteners: NES NER-272
3. Wood Screws: ASME B18.6.1
4. Lag Bolts: ASME B18.2.1(ASME B18.2.3.8M)
5. Bolts: Steel bolts complying with ASTM A307, Grade A (ASTM F568M, Property Class 4.6); with ASTM A563 hex nuts /washers where indicated.

4.3 - PROCEDURE

Remove the existing gutter that will interfere with installation of the new roof extension. Give the removed gutter to the PGC staff at the site.

Construct the roof frame according to the dimensions and layout shown on the drawing. Provide temporary bracing for the roof frame to maintain the integrity of the structure as construction progresses.

Drill holes in the top of the posts for the lag bolts. Cut the rafters to match the required roof slope and angle and attach the rafters to the posts and header along the existing roof eave. Secure the fascia to the end of the rafters.

Cut the top of the posts to match the slope and angle of the installed rafters. Attach the plywood to the top of the posts.

After construction is complete, remove all temporary bracing and waste lumber from the site.

4.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 5 – STANDING SEAM METAL ROOF

5.1 - SCOPE

This work is installing the standing seam metal roof panels on the roof frame as shown on the drawing.

5.2– MATERIALS

A. Standing Seam Metal Roof Panels - The metal roof panels shall be fabricated from 24-gauge steel conforming to ASTM A653 with a rating UL-90 (wind uplift). The panel section shall be 18-inches wide with 2-inch high ribs with a mechanically field seamed style. The panels shall be rolled with striations to minimize oil canning. The sheet steel shall be have a zincalume, galvalume or galvanized steel sheet substrate. The finish of the roof panels shall be a flouropolymer coating produced with Kynar 500 or Hylar 5000 resin. The finish color is green to match the existing roof color. The panel finish shall come with a 20-year manufacturer's warranty.

B. Felt Underlayment – 30-pound ASTM felt underlayment.

C. Trim Sections – The trim sections shall be fabricated from the same material and finish as the metal roof panels.

D. Fasteners – 22-gauge steel in a two piece sliding clip arrangement allowing for thermal movement. The fasteners shall be concealed design. The nails and/or screws for attachment of fasteners and flashing sections shall be corrosion resistant as recommended by the metal roof panel manufacturer. Exposed fasteners shall be color matched to the roof panels.

E. Tape Sealant – Pressure sensitive, 100% solids, polyisobutylene compound sealing tape with release paper backing. The tape sealant shall be permanently elastic, non-sagging, non-toxic and non-staining tape seal approved by the metal roof panel manufacturer.

F. Caulk – One part polyurethane sealant as approved by the metal roof panel manufacturer.

5.3– SUBMITTALS

Submit a catalog cut or other information for the standing seam metal roof panels, felt underlayment, fasteners, tape sealant and caulk from the manufacturers to the PGC for review and approval before ordering any materials. Shop drawings for the roof system are required to be submitted for review and approval.

5.4 - PROCEDURE

The metal roof panels shall be roll formed in continuous lengths from eave to ridge. The panels can be jobsite or factory formed in continuous lengths. Spliced panels are not acceptable. Fabricate the trim and flashing sections to the profiles shown on the drawing.

Secure the felt underlayment on the plywood roof deck. Install the panel fasteners on the prepared roof surface. Install the roof panels plumb, level and straight with seams and ribs parallel conforming to the pattern of the existing roof. Install the roof panels so that the system is weather-tight. Allow for expansion and contraction. The roof panels shall be installed according to the manufacturer's recommendations and approved shop drawings.

Dispose of excess materials and remove debris from the site. Clean the work in accordance with the manufacturer's recommendations. Touch up minor scratches and abrasions. Replace damaged sections of the roof.

5.5 - MEASUREMENT AND PAYMENT

Square feet for the metal roof panels. No separate measurement or payment for flashing sections, felt underlayment, tape sealant, caulk and fasteners.

TECHNICAL SPECIFICATION SECTION NO. 6 – SOFFITS AND FASCIA

6.1 - SCOPE

This work is providing and installing the soffits and fascia for the new roof extension as shown on the drawing.

6.2 – MATERIALS

A. Soffits – The soffits shall be preformed, prepainted aluminum alloy (minimum 0.019-inch thick sheet stock) formed to a V-groove section, fully perforated surface and finish brown color to match the existing soffits.

B. Fascia – Fascia shall be preformed, prepainted aluminum alloy (minimum 0.019-inch thick sheet stock) with plain surface and finish color of brown to match the existing fascia.

C. Nails – Aluminum; use prefinished brown nails for soffits and fascia.

D. Trim – F-channel and angles of the same material and finish as soffit and fascia.

E. Sealant – Silicone, single component, solvent curing, brown color.

6.3 - PROCEDURE

Install F-channel along the top header. Secure soffit sections in F-channel and nail to fascia board. Secure the fascia to the rafters and fascia board. Install trim sections and apply sealant as necessary to the soffits and fascia.

6.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 7 – ALUMINUM CLADDING

7.1 - SCOPE

This work is providing and installing aluminum cladding on exposed wood surfaces of the roof posts as shown on the drawing.

7.2 – MATERIALS

A. Aluminum Cladding – The cladding shall be pre-painted aluminum alloy (minimum 0.018-inch thick sheet stock) with finish color of dark brown to match the existing metal arch trusses.

B. Nails – Aluminum; use prefinished brown nails for the cladding.

C. Sealant – Silicone, single component, solvent curing, brown color.

7.3 - PROCEDURE

Bend and cut the aluminum sheet to match the dimensions and shapes of the existing wood posts to be covered. Fabricate the cladding to minimize the number of seams exposed to view. Attach the cladding to the underlying wood with nails. Apply sealant at joints and edges.

7.4 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION NO. 8 – LANDSCAPING STONE

8.1 - SCOPE

This work is providing and installing landscaping stone under the new roof extension as shown on the drawing.

8.2 – MATERIALS

Landscaping stone shall be 1-inch to 3-inch river rock matching the colors and gradation of the existing stone in place around the building.

8.3 - PROCEDURE

Strip and soil and sod under the new roof according to Section 2 of these Technical Specifications. Rake and even out the underlying surface for placement of the stone.

Dump the stone under the new roof. Spread and rake the stone to provide a smooth surface even with the existing sidewalk, stone and grass.

8.4 - MEASUREMENT AND PAYMENT

Cubic feet.