

Asphalt Roofing Bid Requested

The City of Norway will accept sealed bids until 4:00 P.M. (CST) on Thursday, July 11th, 2019 for Repair of roof system, and installation of new roofing on the Norway City Hall 72'X130' (sections of 4/12 and 5/12 pitch)

- OPTION A: 30 year Architectural Shingles with possible repairs to underlayment and two rows of Ice dam underlayment on the drop ends of the roofs.
- OPTION B: Repair/Replace Existing gutters.
- OPTION C: Wrap/repair eaves (fascia and vented soffit) in aluminum.

Included in all options:

1. Removal of all existing roofing, and any deteriorated roof deck.
2. Installation price per square foot of new roof decking where needed.
3. Installation of: new flashing on all vertical projections/penetrations, vent stacks.
4. Special attention should be focused on repair of compromised or deteriorated structural roof members. Time and material estimate.
5. Venting as prescribed by code.

Contractor to have ten (10) years experience in installation, be fully insured and licensed in the State of Michigan and provide a 15 year material and workmanship warranty. Contractor to provide a 5% performance bond and payment. Contractor is to provide all labor, equipment, and material to complete the required work. Bid specifications may be obtained at the office of the City Clerk at Norway City Hall, 915 Main Street, Norway, MI. (906) 563-9961.

Bids must be submitted in a sealed envelope clearly marked "Asphalt Roofing Bids" no later than 4:00 P.M. (CST) on Thursday, July 11th 2019 at the office of the City Clerk, City Hall, 915 Main Street, Norway, MI. 49870.

Interested contractors may contact Ray Anderson at (906) 563-9961 to arrange for field inspection of locations prior to submitting a bid.

The City of Norway reserves the right to accept or reject any or all bids, waive irregularities, or accept the bid most advantageous to the City of Norway.

CITY OF NORWAY

**SECTION 07 31 13
ASPHALT SHINGLES**

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section includes architectural grade asphalt roofing shingles for a high wind region, underlayments, metal flashings and trim, ridge vents, and other related accessories.

1.2 RELATED WORK

- A. 04 01 20 Unit Masonry Restoration
- B. 07 62 00 Sheet Metal Flashing and Trim
- C. 07 92 00 Joint Sealants

1.3 REFERENCES AND REGULATORY REQUIREMENTS

- A. Appropriate references included in 01 42 00.
- B. ASTM International.
- C. Asphalt Roofing Manufacturers Association (ARMA), "Residential Asphalt Roofing Manual".
- D. National Roofing Contractors Association (NRCA), "Roofing and Waterproofing Manual".
- E. Sheet Metal and Air Conditioning Contractors National Association (SMACNA), "Architectural Sheet Metal Manual".
- F. Underwriters Laboratories, Inc. (UL).

1.4 SUBMITTAL REQUIREMENTS

- A. All submittals shall be in accordance with 01 30 00 Administrative Requirements.
- B. Product data including a complete range of available colors.
- C. ICC-ES evaluation reports.
- D. Warranties: Provide standard manufacturer's written "50 Year Limited" warranty, signed by manufacturer agreeing to promptly repair or replace failed asphalt shingles. Provide a manufacturer's warranty supplement to cover labor and materials in the event of a material defect for a period of ten years after installation. Provide an upgraded wind warranty from 110 mph to 130 mph for the first 15 years by complying with all of the manufacturer's conditions and instructions.

1.5 QUALITY ASSURANCE

- A. In accordance with 01 40 00 Quality Requirements.

1.6 DELIVERY, STORAGE AND HANDLING

- A. All roofing materials shall be delivered to the site in manufacturer's cartons in a clean, dry and undamaged condition.
- B. Store off of the ground and protect from the weather.

PART 2 - PRODUCTS

2.1 ASPHALT SHINGLES

- A. Fire-Resistance Characteristics: ASTM E 108 or UL 790, Class A. Identify products with appropriate markings of testing and inspecting agency acceptable to authorities having jurisdiction.
- B. Architectural Grade Asphalt Shingles: ASTM D 3462.
 - 1. Architectural Grade Asphalt Shingles: Mineral-granule surfaced and self-sealing. Minimum weight 250-270 pounds per square. ASTM D3161 Class "F" (130mph) / UL 997 Wind Resistance. Heavy duty glass fiber mat base, ceramically colored UV resistant mineral surface granules across entire face of shingle, dual self-sealing strips of CertaSeal Plus sealant designed to resist blow-off in high wind conditions. Use manufacture's special installation instructions to increase wind resistance to 130 mph.
 - a. Manufacturers:
 - 1) Certainteed: "Landmark PRO" Series.
 - a) Color: "Max Def Heather Blend"

2.2 ACCESSORIES

- A. Felts: 15#, ASTM D 226 or ASTM D 4869, Type II, asphalt-saturated organic felts.
- B. Roof Underlayment: Synthetic Roofing Felt / Underlayment. UV stabilized polypropylene construction, 54 inch wide rolls, 37 lb. / roll, 10 squares / roll. Meeting ASTM D226 and D4869.
 - 1. Manufacturers:
 - a. GAF Materials Corporation, "Deck-Armor".
- C. Water-Proof Roof Underlayment: Fully adhered, smooth or textured surface, waterproof underlayment, to be installed at roof edge and eaves, as indicated on the drawings:

1. Manufacturers:
 - a. W. R. Grace & Co., "Ice & Water Shield".
 - b. Owens-Corning, "WeatherLock Mat" Self-Sealing Ice & Water Barrier.
 - c. "GAF, "WeatherWatchXT"
 2. Self-Adhering Sheet Underlayment: ASTM D 1970, SBS-modified asphalt; mineral-granule or slip-resisting-polyethylene surfaced; with release paper backing; cold applied.
- D. Ridge Vent: Rigid UV-stabilized plastic ridge vent with nonwoven geotextile filter strips and with external deflector baffles to prevent snow entry; for use under ridge shingles.
1. Manufacturers:
 - a. Air Vent, Inc.; a Gibraltar Industries company.
 - b. Cor-A-Vent, Inc.
 - c. GAF Materials Corporation.
 - d. Mid-America Building Products.
 - e. Obdyke, Benjamin Incorporated.
 - f. Owens Corning.
 - g. RGM Products, Inc.
 - h. Trimline Building Products.
 - i. Substitutions in accordance with 01 25 00 Substitution Procedures.
- E. Asphalt Roofing Cement: ASTM D 4586, Type II, asbestos free.
- F. Roofing Nails: Aluminum, stainless-steel, or hot-dip galvanized-steel shingle nails, minimum 0.120-inch diameter, of sufficient length to penetrate at least 1/8 inch through plywood sheathing. **Staples are not permitted.**
- G. Sheet Metal Flashing and Trim: Comply with requirements in Section 07 62 00 "Sheet Metal Flashing and Trim."
1. Fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual."
 2. Drip Edge: Formed sheet metal, painted, with at least a 2-inch roof deck flange and a 1-1/2-inch fascia flange with a 3/8-inch drip at lower edge.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with recommendations in ARMA's "Residential Asphalt Roofing Manual" and with asphalt shingle recommendations in NRCA's "The NRCA Roofing and Waterproofing Manual."
- B. Follow manufacturer's special instructions for installation in a high wind region.
- C. Apply waterproof self-adhering sheet underlayment at eaves and rakes from edges of roof to at least 36 inches inside exterior wall line. On low-slope roof areas, or where noted where noted on drawings, install waterproof self-adhering sheet underlayment on 100 % of the roof surface.
- D. Apply waterproof self-adhering sheet underlayment at eaves in two rows, extending approximately 5'-6" minimum from the edge of roof.

- E. Install synthetic felt underlayment on roof deck not covered by self-adhering sheet underlayment.
- F. Install metal flashings to comply with requirements in Section 07 62 00 "Sheet Metal Flashing and Trim" and according to recommendations in ARMA's "Residential Asphalt Roofing Manual" and asphalt shingle recommendations in NRCA's "The NRCA Roofing and Waterproofing Manual."
- G. Install first and remaining courses of asphalt shingles stair-stepping diagonally across roof deck with manufacturer's recommended offset pattern at succeeding courses, maintaining uniform exposure.
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END OF SECTION 07 31 13