

Gillette Castle Canopy Replacement

CTDEEP Project Number DEPA00013203102:

Subject: Response to RFI Questions

Date: February 19, 2021

The following are a listing of the Requests for Information received during the bidding phase of the project. The questions have been grouped according to the bidders that submitted the questions.

RFI Request Set Number 1:

RFI Question	Response
Drawing S-3 describes the metal roof material as 20oz Lead Coated Copper vs. Specification 07600-2.2-B. calls out material as Tin/Zinc Coated Copper. Which material is to be used?	The preferred material is the Tin/Zinc Coated Copper. We are checking with the State Historic Preservation Office to verify if this is acceptable. If this changes, we will inform all bidders.
Drawing S-2, Detail for Beam Attachment to wall shows roof assembly and fastening different from Drawing S-3, detail for Reglet & Flashing at building face, which shows PT sleepers set to roof slope with (2) layers of Marine grade plywood vs. Specification 07600-2.4-C. calling for Taper insulation. If taper insulation is to be utilized can the insulation be loose laid on concrete deck, then bottom layer plywood anchored thru insulation into concrete deck with structural concrete deck roof fasteners (8 per 4x8 sheet) and top layer plywood screwed to bottom layer of plywood with wood screws?	The detail with the pressure treated sleepers shall be used. Roof insulation will not be required.
Specification 07600-2.3-B. calls for 30# felt, under low slope metal roofs it's recommended to use. Do you want to use the 30# felt?	Use Self-adhesive, self-sealing, 30-mil, high-temperature resistant (similar to WR Grace, Grace Ultra butyl membrane).
Will existing field stone veneer stones be re-used and if so, will we have to catalog each stone, photograph and place back as existing stone pattern?	See Dismantling Notes on Sheet S-2
Supplemental bid for rebuilding field stone wall, will the stones have to be cataloged, photographed and placed in same location as existing?	This will not be required for the wall masonry

Will owner supply replacement stones if needed for damaged or missing stones?	Yes. CTDEEP has a source of stone on site.
Will power and water be provided by owner?	Yes. Normal water and power supply can be provided. If a large volume of water is required, you would need to truck it in

RFI Request Set Number 2:

RFI Question	Response
Potential ACM involvement- In review of the provided specs, no mention was found denoting if previous core sampling for ACM materials were performed for the existing roof. Spec Section 50 30 00 was also not found for reference. Note that if there is uncertainty if ACM exists within the roof plies, then the existing roofing will need to be removed via non-friable means. Also note that if ACM is discovered within the roof plies, will the abatement be the Owner’s responsibility or the Contractor’s?	<p>No cores were taken as part of the investigation of this roof. The underside of the roofing was exposed as part of an evaluation of the structural make-up of the deck, where a small portion of the ceiling stones were removed, along with the mortar above. It appears that the lead coated copper roofing is installed directly on top of the concrete roof deck. Bidders shall assume that no special material disposal is required other than the lead coated copper roofing and flashing.</p> <p>Note that the specified demolition of the structure will not involve means that would create friable conditions. The structure is to be dismantled piece by piece, not by means of large demolition equipment (see notes on plans). Hand removal of the roofing is anticipated.</p>
Historic Treatment Procedures for Demolition – The disposal or recycling methods were not listed in the specs for treatment of the existing copper roof system (Spec Section 01 35 91). Will the generated debris from the copper roof removal expect to be disposed or recycled?	Disposal of the lead coated copper roofing and flashing shall be in accordance with all state and federal regulations as noted in Specification 02221.
The plans call for a new 20 oz LCC flat seam roof, with Red Rosen & 30 lb felt underlayment with new hot asphalt applied tapered insulation, over which a double layer of Marine Grade ¾” plywood is to be installed. The plywood layers are to be staggered with the 1st layer mechanically attached over the insulation & into the concrete deck. The 2nd top layer of plywood is to be glued & screwed to the initial layer. In this denoted assembly please clarify the following;	

<p>The slope indicated for the tapered insulation is ¼” per foot. This assumes that the denoted cricket will be constructed at ½” per foot (to properly counteract the slope of the field).</p>	<p>The main roof slopes away from the building. The cricket slopes toward the corners. The cricket does not have specific dimensions. The goal is to direct water to the two drain sleeves in the corner. In reality, the angle of the cricket will be closer to a 45 degree angle based on the fact that the slopes are both ¼” per foot.</p>
<p>What is the desired PSI for the tapered insulation (ie; 20 psi or 25 psi).</p>	<p>The tapered insulation will not be required. The plywood will be supported by the PT wood sleeper system shown on the plans.</p> <p>Note that the roofing is to be Tin/Zinc Coated Copper (see specification 07600 Article 2.2) in lieu of the notes on the plans.</p> <p>Also note that the felt underlayment is to be replaced with self-adhesive, self-sealing, 30-mil, high-temperature resistant membrane (similar to WR Grace, Grace Ultra butyl membrane).</p>
<p>Can the insulation be applied via ribbons of low foam adhesive (in lieu of Hot Asphalt). IF SO, please indicate the expected ribbon spacing (assuming 4” o.c due to the size & construction of the canopy structure, as well as increased wind uplift expected from the surrounding topography). IF NOT, please indicate if the hot asphalt type to be used in this application will be Type I, II, III or IV.</p>	<p>See response above</p>
<p>Since this is an open canopy structure which is subject to external moisture migration, will an initial vapor barrier (or vapor retarder) be used directly over the existing concrete substrate before the insulation is installed? IF SO, please indicate the intended products for use (ie; concrete primers, roll materials, lap sealants, etc)</p>	<p>No special treatment of the concrete deck is required</p>
<p>Is there any specific glue product expected for the lamination process of the double layers of Marine grade plywood (ie; low foam adhesive, yellow bonding glue, or other)?</p>	<p>No specific glue is required. Standard exterior construction grade adhesive is acceptable.</p>

<p>The Warranty for the new flat seam copper roof calls for a typical 2-year Craftsmanship Guarantee. However, in the Warranties & Bonds (Spec Section 01 38 70) a 30-year EPDM roof system warranty was also mentioned. Please clarify if EPDM is to be used anywhere within this project scope.</p>	<p>The warrantee shall be as specified in Specification 07600, Section 1.4. EPDM is not included in the project scope.</p>
<p>The Specs for the flat seam copper roof denote the solder to be ASTM B 32, "Pure Tin, or High Tin Content with no lead". Since this type of solder material is known to cause cracks within the soldering, will normal 50 / 50 solder be entertained for use within the flat seam copper panel installation.</p>	<p>The solder shall be in accordance with the roofing manufacturer's recommended installation materials.</p>

RFI Request Set Number 3:

RFI Question	Response
<p>"Drawings reference LCC but specs reference ZCC?</p>	<p>The roofing is to be Tin/Zinc Coated Copper (see specification 07600 Article 2.2) in lieu of the notes on the plans.</p> <p>Also note that the felt underlayment is to be replaced with self-adhesive, self-sealing, 30-mil, high-temperature resistant membrane (similar to WR Grace, Grace Ultra butyl membrane).</p>
<p>The insulation requirement are not really called out?</p>	<p>The tapered insulation will not be required. The plywood will be supported by the PT wood sleeper system shown on the plans</p>
<p>"Thickness varies" Is there a minimum thickness?</p>	<p>The minimum thickness of the roofing shall be 2" at the low point (at parapet drain sleeves).</p>
<p>A basic tapered roof from one side to the other?</p>	<p>See Canopy Roof Plan on Sheet S-3. The maximum thickness shall be 6" at the face of the building. The goal is to drain the water to the two corners that have the parapet drain sleeves.</p>
<p>2" nominal PT wood sleepers set to roof slope - under the insulation - Is the new construction going to be pitched?</p>	<p>The PT Sleepers are bolted directly to the concrete deck. Insulation is not required.</p>

<p>It references insulation set in hot asphalt primer?? Today we use cold apply or adhesives.</p>	<p>Insulation is not required</p>
<p>Are stainless steel concrete drives allowed?</p>	<p>PT sleepers to be attached to the concrete roof using stainless steel expansion anchors or stainless steel chemical adhesive anchors (see Specification number 07600, Article 2.4 D). The size and spacing is shown on the detail labeled "Beam Attachment to Wall". If you are referring to tapped concrete screws, they will not be allowed.</p>
<p>The concrete must cure for 30 days before it can be primed - Can primer be waived in lieu of self-adhered ice & water shield?</p>	<p>Primer will not be required. The PT sleepers can be installed once the concrete has gained sufficient strength.</p>
<p>We can't start our work until the concrete is cured - there is liquidated damages on this project."</p>	<p>See response above.</p>