



Date: Friday, May 13, 2016

Project Name: Garland Street Decorative Lighting

Bid Due Date: Thursday, May 19, 2016 at 2:00PM

FREQUENTLY ASKED QUESTIONS

For string light fixture related questions, see page 3 of this document for a visual representation

Question: What is the weight per foot of the string light fixtures?

Response: 1.1 lbs per foot

Question: What is the spacing of the string light fixtures?

Response: 3 feet

Question: What is the string light fixture span length?

Response: Approximately 50 feet

Question: Will there be more than one string light per pole?

Response: No

Question: What is the sag of the string light fixture?

Response: 18 inches

Question: Will the banners be vented?

Response: No

Question: Who is providing the banner arms?

Response: The banner arms will be provided by the banner contractor

Question: Will the decorative street light poles be guyed?

Response: No

Question: What wind speed criteria does the pole need to meet?

Response: See page 2 below

Question: What AASHTO criteria does the pole need to meet?

Response: AASHTO break way foundation is not specified for this installation at the back of sidewalk



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Query Date: Fri May 13 2016

Latitude: 44.7655

Longitude: -85.6262

**ASCE 7-10 Windspeeds
(3-sec peak gust in mph*):**

Risk Category I: 105

Risk Category II: 115

Risk Category III-IV: 120

MRI 10-Year:** 76

MRI 25-Year:** 84

MRI 50-Year:** 90

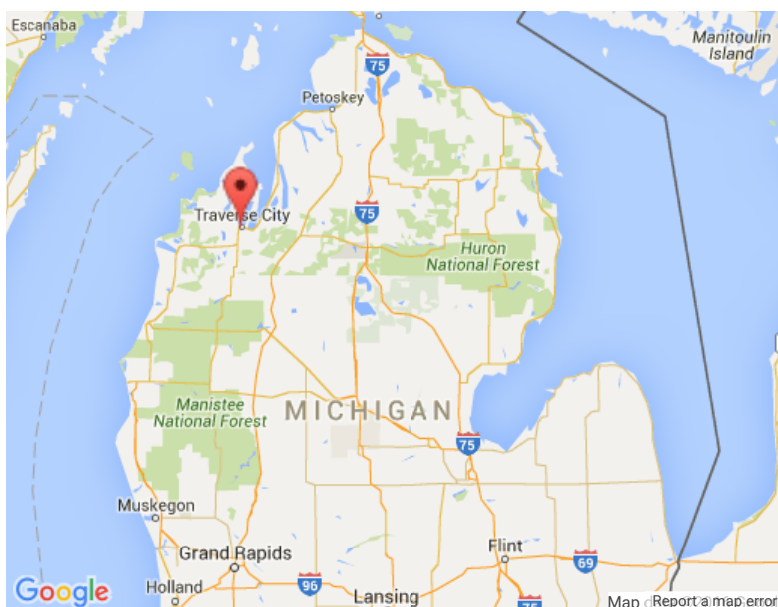
MRI 100-Year:** 96

ASCE 7-05 Windspeed:

90 (3-sec peak gust in mph)

ASCE 7-93 Windspeed:

77 (fastest mile in mph)



*Miles per hour

**Mean Recurrence Interval

Users should consult with local building officials to determine if there are community-specific wind speed requirements that govern.



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The weight of the ML2000-CACA-36"-LED-2.7K-WET-NA-BK = 1.1 Lbs. per foot (including LED)

The following are recommended steps that should be completed on the design stage to properly install our ML2000:

1. Determine weight of ML2000 that will be used (1.1lbs)
2. Determine length of ML2000 and multiply times weight
3. Engineer must then choose the proper aircraft cable that will handle the tension required to prevent the product from sagging based on the length and weight. Link below has information on aircraft cable (stainless steel rope) options:
<http://www.mcmaster.com/#stainless-steel-cable/=p3ahj1>
4. Engineer then must determine strength of structure where the cable will be attached based on the tension that will be required to prevent sag on the above step. If installing on poles, pole manufacturer must get involved in this stage to make sure poles can handle the tension.

ML2000 is then hung to the above aircraft cable using the hooks. Hooks must be secured to aircraft cable.

Note: Aircraft cable supplied with fixture is designed to prevent strain on the wire (can handle up to 500lbs). We recommend an additional aircraft cable to be used to hang ML2000.

The above instructions will eliminate any sag. If they want to create sag, they need to decide how much and specify on drawings, so the contractor can create the required sag.

