

Project Name: North Kenai Spur Road
Project Number: HB 525 GO/56567

Attachment A

A list of components that comprise the Nikiski Fire Department Flashing Beacon System.

1. A control cabinet, installed within the Fire Station, will hold the following equipment:
 - One 15 ampere circuit breaker and neutral and ground busses
 - One radio interference suppressor
 - One transient voltage suppressor
 - One remotely controlled receiver
 - One timed switch
 - One two circuit solid state flasher
 - Two terminal blocks
2. From the control cabinet, two IMSA 20-1 signal cables that consist of five 14 AWG conductors will leave the Fire Station: one to each flashing beacon. The cables to the east and west beacons will measure about 500 and 480 feet long, respectively. Two of the five conductors in each cable will not be used.
3. The raceway, into which the signal cables will be pulled, will consist of two inch rigid metal conduit that contains a bare 8 AWG grounding conductor.
4. Seven State of Alaska Type IA junction boxes with cast iron lids will be installed to facilitate signal cable and grounding conductor installation.
 - One just outside the Fire Station.
 - Four in the right of way with one adjacent to each flashing beacon.
 - Braided copper conductor will bond the junction box lids to the grounding system.
5. Each flashing beacon will consist of two traffic signal sections with 8-inch diameter yellow lenses, visors, and incandescent traffic signal lamps. Lamps are clear, 665 lumen, 120 volt traffic signal lamps rated for 6000 hours. Standard traffic signal hardware will connect the signal faces to a 4.5-inch post top adapter that fits over a 4-inch pipe tenon that is welded into the top of the sign post.
6. Each sign post will consist of an ASTM A500 Grade B, 5-inch square, steel tube with tenon and a frangible coupling base manufactured by Transpo Industries, the Break-Safe model B-525-LP. When a post is knocked down, four Break-Safe couplings will need to be replaced.
7. Each sign post foundation consists of a two feet diameter by four feet deep reinforced Portland Cement Concrete foundation with a 2-inch rigid metal conduit raceway and four Type B Break-Safe anchors.