

February 19, 2009

To: Robin Ziek, Planner, City of Rockville
From: Robert Baker, Vice President Chase Communities

RE: Illumination of Community Identification Signs

The landscape architect, Lewis, Skully, Gionet, recommended the use of four low voltage light fixtures to illuminate the community identification sign panels at the entrance of Chestnut Lodge along West Montgomery Avenue. This lighting is appropriate to illuminate the signs in an effort to identify the community in a discrete and modest manner.

As we know because of citizen concerns there is only one entrance to the Chestnut Lodge community and that is the one along the frontage of West Montgomery Avenue. At the insistence of the city transportation staff, the entrance to the community was also narrowed to the extent possible. A reasonable illumination of a community sign is appropriate to allow both pedestrian and vehicular visitors to find the entrance to the community when it is dark. The lighting design, with illumination of the two pier signs adjacent to the sidewalk entrance, puts as much focus on the pedestrian as it does for the vehicular visitor.

The landscape architect wanted to illuminate the community identification signs in as subtle and modest manner as possible. They were careful in their choice of light fixture and intensity of light. As a result they chose to employ a low voltage lighting system that was efficient and effective. The most appropriate fixture they found was a Delta Star (MR16) low voltage light fixture, as shown on the original detailed application and in our HDC application. This fixture, as the manufacturer's product sheet outlines, is a good choice when the designer has a need for "deep cutoff" and "brightness control" in a "low-brightness, low-voltage lighting instrument".

The landscape architect was also careful to locate the fixtures in close proximity of features that were to be illuminated so that the lowest wattage of lamp could be used. As a result, a 20 watt lamp can be used in all four fixtures. In addition these fixtures are not rated for a lamp that exceeds more than 50 watts. These fixtures are also located on the ground and are surrounded by landscaping in order to shield the fixtures from view. The low wattage and candle power of the lamps and their close proximity to the subjects they are focused on to illuminate will eliminate stray light that would disturb the viewer if a brighter, standard voltage floodlight was used. The landscape architect took all these factors into consideration in choosing a fixture and lighting system that provided inconspicuous and modest lighting for the entrance feature signs.

In summary, the landscape architect specified a very modest and "low-brightness" solution in specifying the light fixture and system to illuminate the community identification signs for Chestnut Lodge. (The manufacturer's product and technical sheet is attached.)



architectural environment.

Delta Star™ (MR16)

Delta Star™ gives the lighting designer two choices of deep cutoff options. When the design requires the highest degree of brightness control of the [MR16](#) lamp, Delta Star is the answer. Its precision, machined aluminum construction and deep cutoff design combine to make Delta Star a very economical low-brightness, low-voltage lighting instrument. Delta Star™ is supplied in a luxurious [Class 'A' powder coat finish](#) to blend into virtually any landscape or

Features:

- For use with [MR16](#) lamps to 50 watts.
- Tamper proof design.
- Completely sealed optical compartment.
- Clear, tempered glass lens, factory sealed.
- Enclosed wireway mounting knuckle.
- Machined aluminum construction with stainless steel hardware.
- [Locking 'O' Ring Compression Knuckle \(L.O.C.K.™\)](#) ensures optical alignment.
- [ARL](#) & [CSA](#) listed.
- For use with remote [transformers](#).

MR16 Lamps

B-K LIGHTING



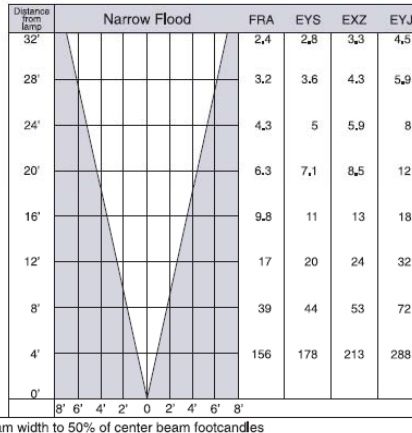
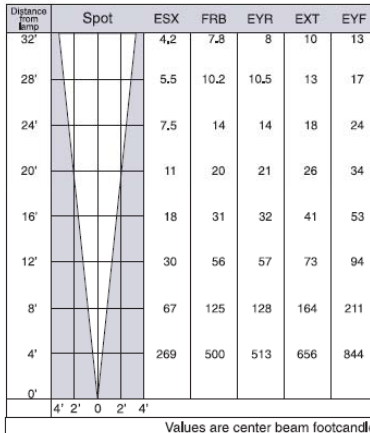
Date: January 3, 2006



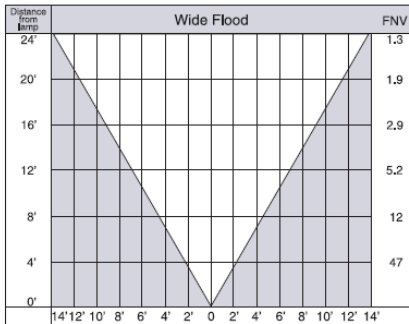
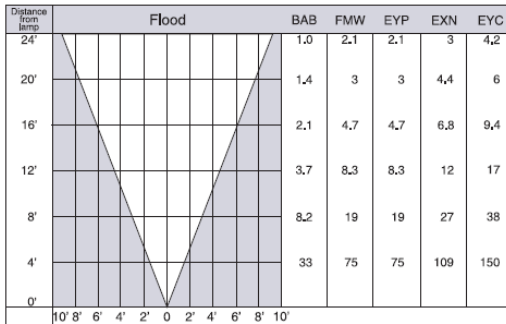
MR16 Halogen

BK No.	Lamp Watts	Description	Rated Life	Center Beam Cndlpwr.	Beam Angle	Beam Type
1	20	ESX	3000	4,300	12°	Spot
2	20	BAB	3000	575	40°	Flood
3	35	FRB	4000	8,000	12°	Spot
4	35	FRA	4000	2,500	23°	N. Flood
5	35	FMW	4000	1,200	40°	Flood
15	42	EYR	4000	8,200	12°	Spot
16	42	EYS	4000	2,850	25°	N. Flood
17	42	EYP	4000	1,200	40°	Flood
6	50	EXT	5000	10,500	13°	Spot
7	50	EXZ	5000	3,400	26°	N. Flood
8	50	EXN	5000	1,750	40°	Flood
9	50	FNV	5000	750	60°	W. Flood
32	75	EYF	4000	13,500	13°	Spot
33	75	EYJ	4000	4,600	26°	N. Flood
34	75	EYC	4000	2,400	44°	Flood

Note: If using No. 11 honeycomb baffle multiply footcandle or candela values by .80.



Values are center beam footcandles • Beam width to 50% of center beam footcandles



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