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Field Memorandum

To: **Mr. Steve Norcini**
Cc: **Mr. Robert Zienkowski, Mr. Rodger Phillips**
Date: **August 29, 2016**
Site: **VU – Buffer /Parking lot**
Reference: **Vehicular light penetration to adjacent properties.**

Dear Mr. Norcini,

Pursuant to our night inspection at the above referenced location, please see my findings.

Steve Norcini and I met on August 24th 2016 after the monthly shade tree meeting in order to observe the light penetration/spillage from vehicles that are using the parking lots drive lanes as they enter or exit the parking spaces.

We utilized a full size pick-up truck to obtain the greatest amount of penetration and to obtain the worst case scenario.

I estimated at 90 feet from the buffer curb line, was where we obtained the greatest amount of headlight intrusion. Our field study began at the most westerly end of the parking lot and finished at the proposed new entrance lane. We utilized both high and low beams to obtain both scenarios during a typical evening.

Each drive lane was observed. We broke each section into parcels and measured the light elevation and penetration. Our goal was to see if (A) the light penetration reached above the new buffer (B) penetration through the new buffer was obtained (C) if plants locations and species were adequate for a complete screening.

From west to east in the parking lot - Gannett Fleming, Inc will locate parcels on drawing when we meet onsite.

Parcel	Headlight Measurements	Adequacy of Coverage	Management	Notes
VU1	High beam - 79" Low beam – 27"	complete	N/A	Monitor health of Plants

Parcel	Headlight Measurements	Adequacy of Coverage	Management	Notes
VU2	High beam - 76" Low beam – 23"	complete	N/A	Monitor health of Plants

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Parcel	Headlight Measurements (height at above road grade)	Adequacy of Coverage	Management	Notes
VU3	High beam - 78" Low beam – 21"	complete	N/A	Monitor health of Plants

Parcel	Headlight Measurements (height at above road grade)	Adequacy of Coverage	Management	Notes
VU4	High beam - 80" Low beam – 25"	complete	N/A	Monitor health of Plants

Parcel	Headlight Measurements (height at above road grade)	Adequacy of Coverage	Management	Notes
VU5	High beam - 78" Low beam – 15"	complete	N/A	Monitor health of Plants

Parcel	Headlight Measurements (height at above road grade)	Adequacy of Coverage	Management	Notes
VU6	High beam - 71" Low beam – 26"	complete	N/A	Monitor health of Plants

Parcel	Headlight Measurements (height at above road grade)	Adequacy of Coverage	Management	Notes
VU7	High beam - 107" Low beam -30"	complete	N/A	Monitor health of Plants

Parcel	Headlight Measurements (height at above road grade)	Adequacy of Coverage	Management	Notes
VU8	High beam - 96" Low beam - 27	Inadequate	Add 5 evergreen trees	To be field located by Rockwell

Parcel	Headlight Measurements (height at above road grade)	Adequacy of Coverage	Management	Notes
VU9	High beam - 88" Low beam – 28"	complete	N/A	Monitor health of Plants

Parcel	Headlight Measurements (height at above road grade)	Adequacy of Coverage	Management	Notes
VU10	High beam - 89" Low beam – 45"	Inadequate	Transplant shrubs and add 5 new evergreen trees	Monitor health of Plants

Conclusion

It was evident that most of the planting buffer is satisfactory at its immature state. However, adjustments are required at parcels 8 and 10 which are located at the east end of this buffer near the new entrance route. These will require additional trees.

It is imperative that both the adjacent residents and Villanova understand that the design was implemented for future growth and screening.

I will be happy to answer any questions.

Best regards,

John Rockwell Hosbach Jr., RCA

John Rockwell Hosbach Jr., Urban Forester