Florence Lighting Project

LIGMAN LIGHTING USA

Project No. LMUS_21050051_Rev.3

Site

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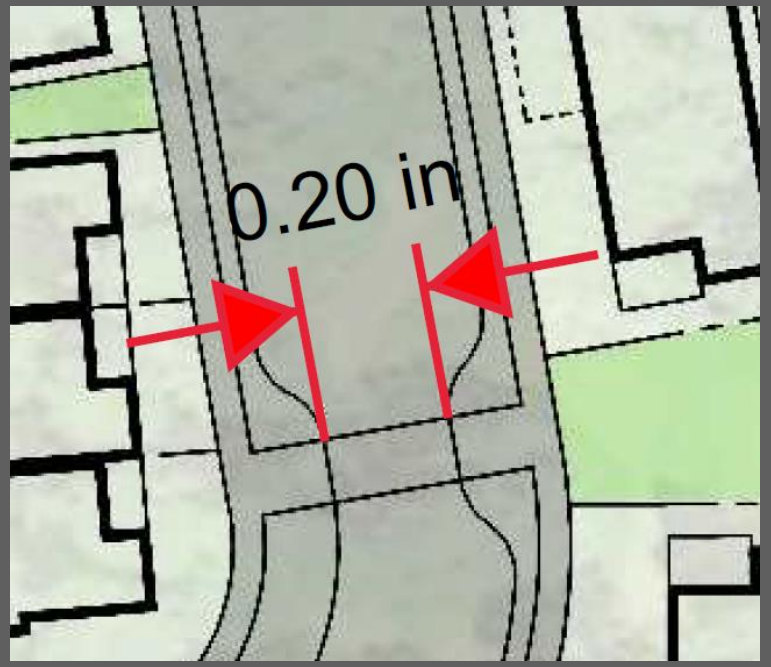
Site

Scale Check



0.20” = 20’

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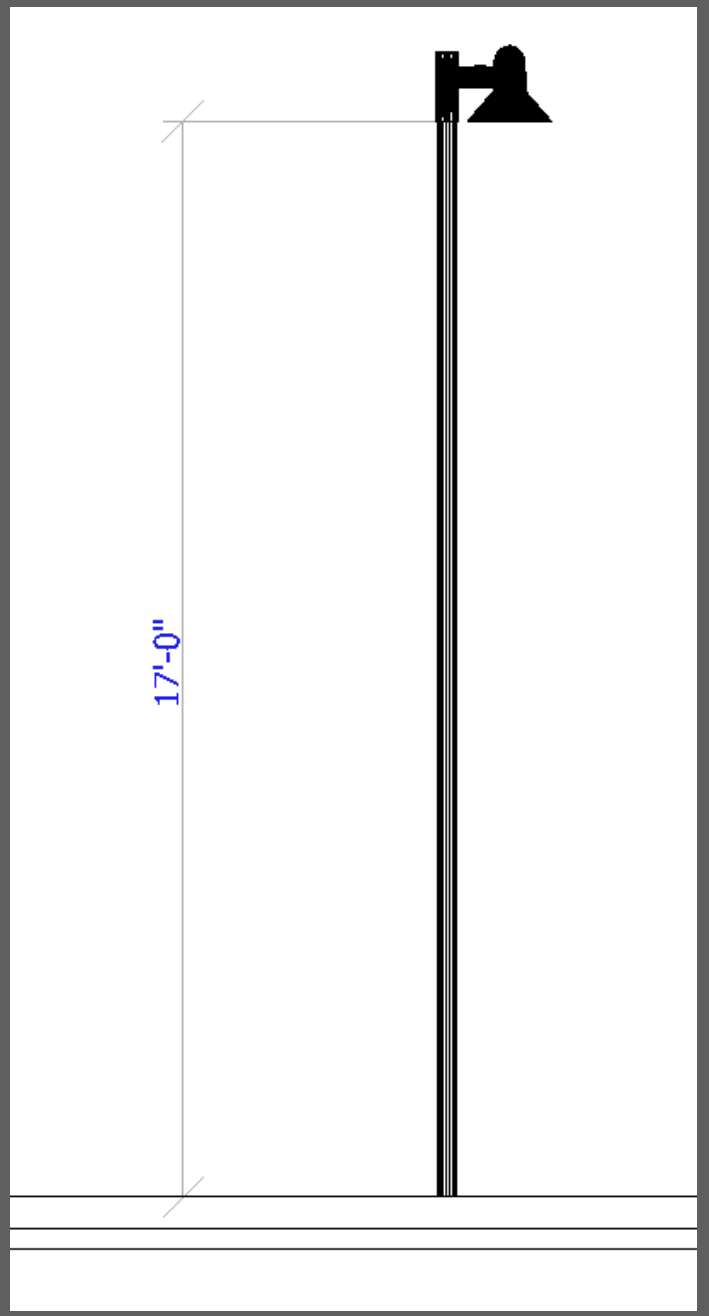
Product selection

UHAM-20001+HSS

***50% lighting output Modification**



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Product Quantity used

UHAM-20001-T4-8030-HSS, Output 50%, Pole height 17’ QTY 21

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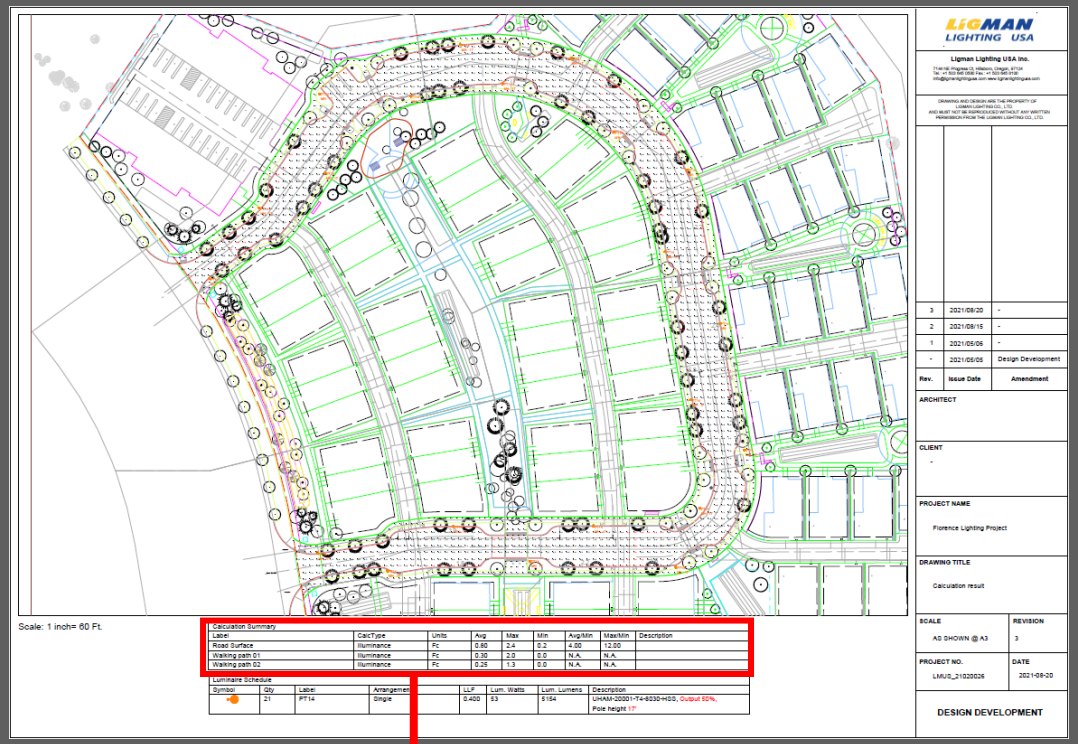
Design standard reference

Roadway Lighting

	Average Maintained Illuminance (fc)	Uniformity (Avg/Min)
Freeway Class A	0.6 - 0.8	3/1
Freeway Class B	0.4 - 0.6	3/1
Expressway	0.6 - 1.3	3/1
Major road	0.6 - 1.6	3/1
Collector road	0.4 - 1.1	4/1
Local road	0.3 - 0.8	6/1

*Refer to Information Sheet 77 (July 1998)
_Recommended Lighting Levels for Exterior Lighting.PDF



Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description
Road Surface	Illuminance	Fc	0.80	2.4	0.2	4.00	12.00	
Walking path 01	Illuminance	Fc	0.30	2.0	0.0	N.A.	N.A.	
Walking path 02	Illuminance	Fc	0.25	1.3	0.0	N.A.	N.A.	

*See calculation result detail in Calculation report

Design Note

- Need to modify luminaire used to 50% output to get lighting standard

- This design need to focus on road lighting, walking path calculation just to show the result. Walking path areas need to improve illumination. We can’t get proper illuminance by just street lighting layout. If we want to improve illumination of these areas, may be need to discuss first, on additional luminaire such as bollard or lower post top just for walking path or product, mounting height and layout changing.

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3D Rendering

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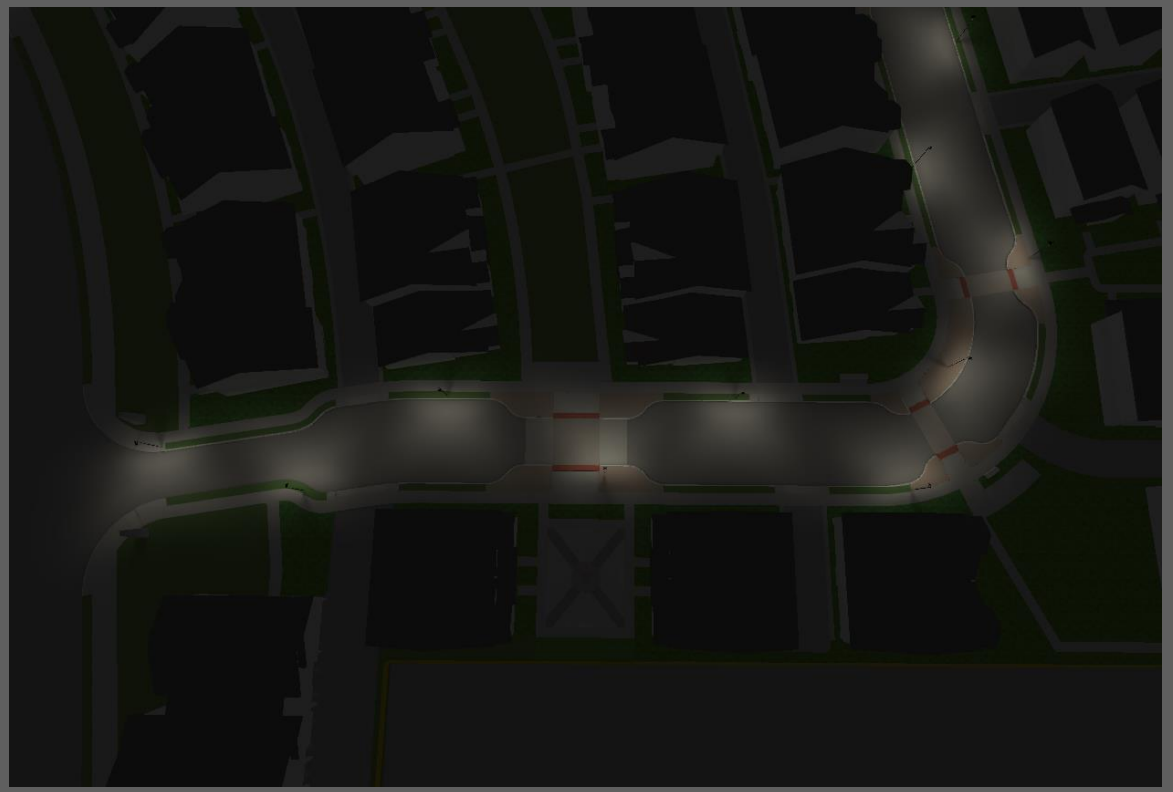
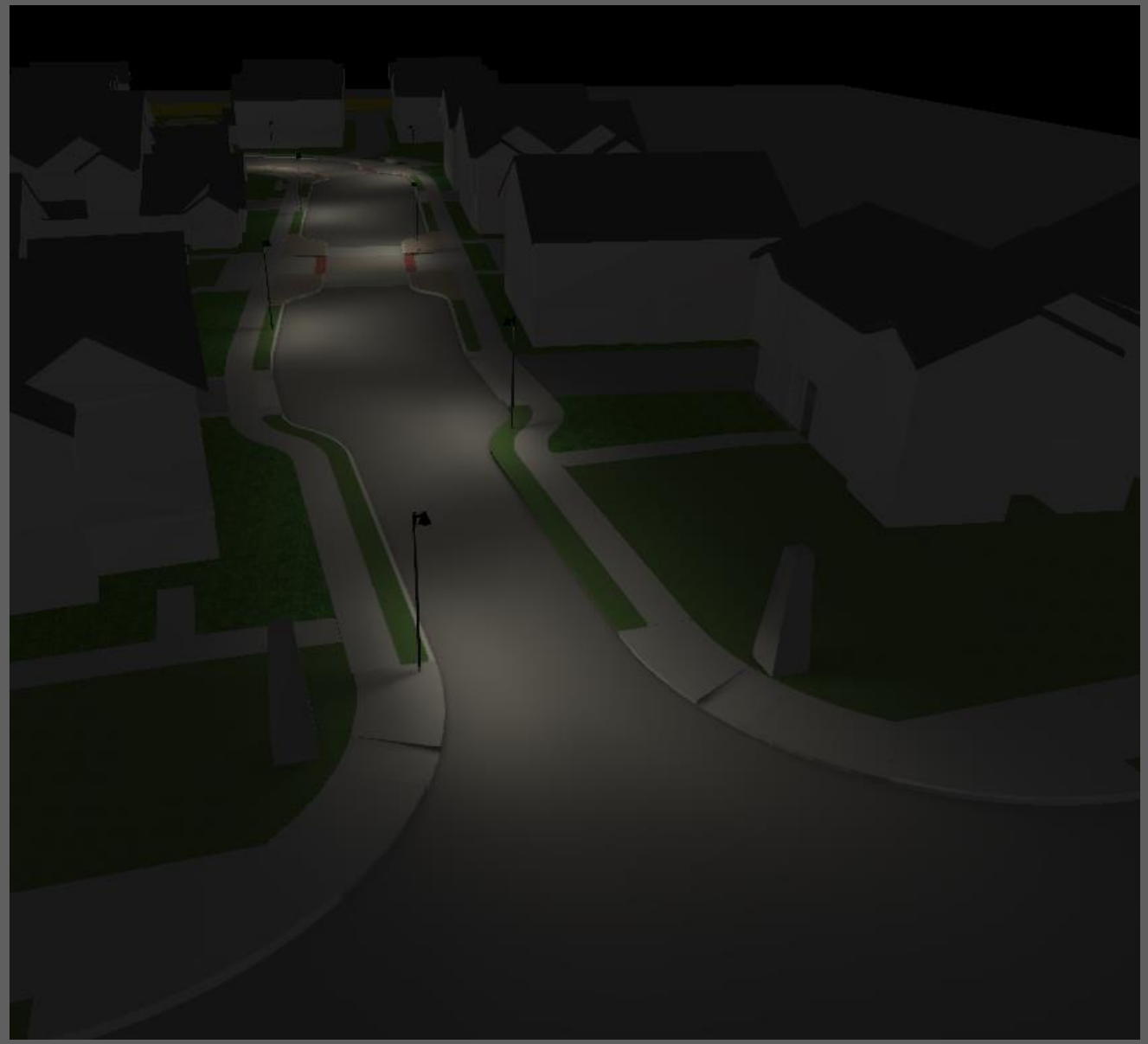
3D Rendering





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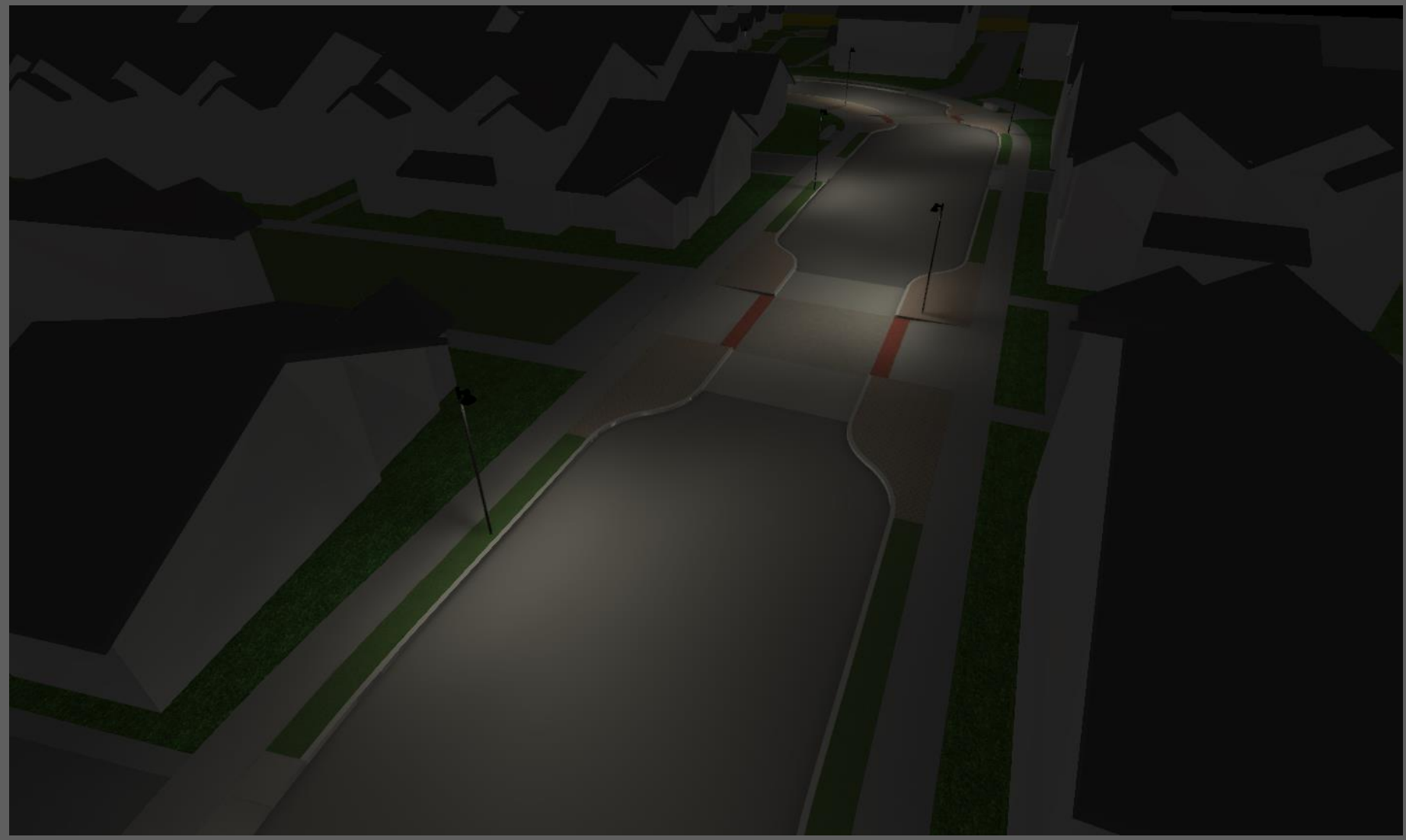
3D Rendering



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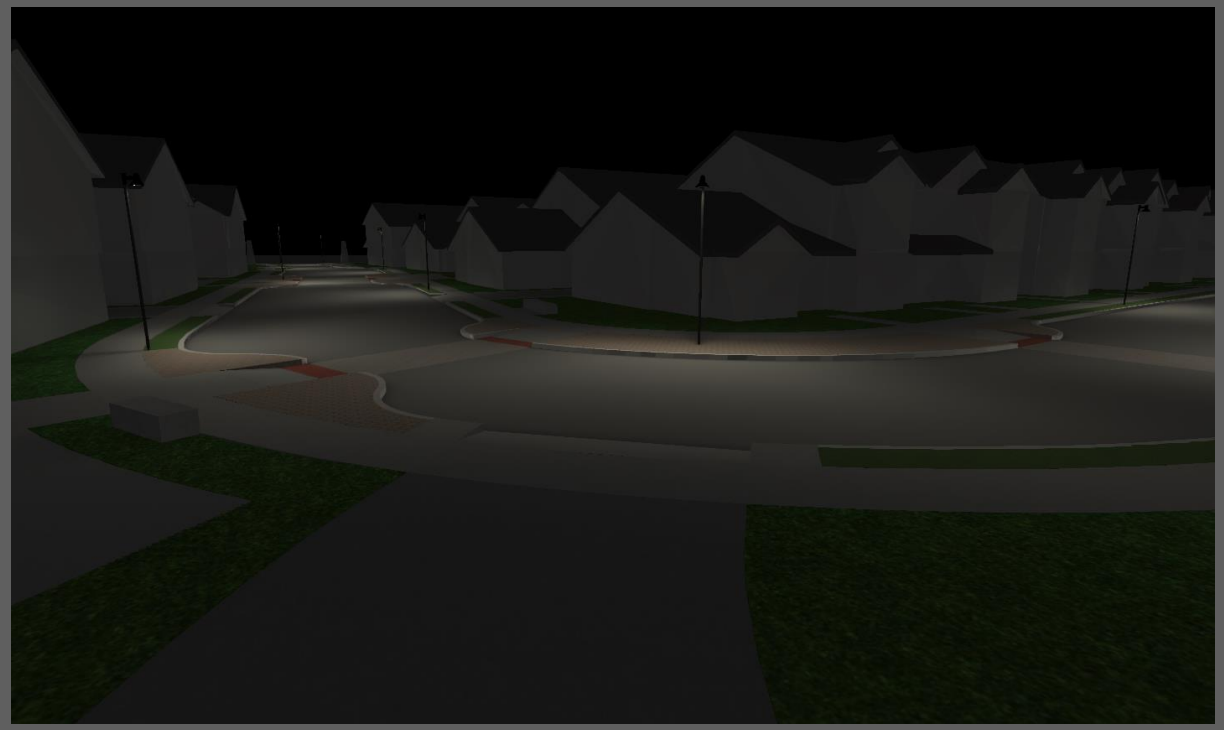
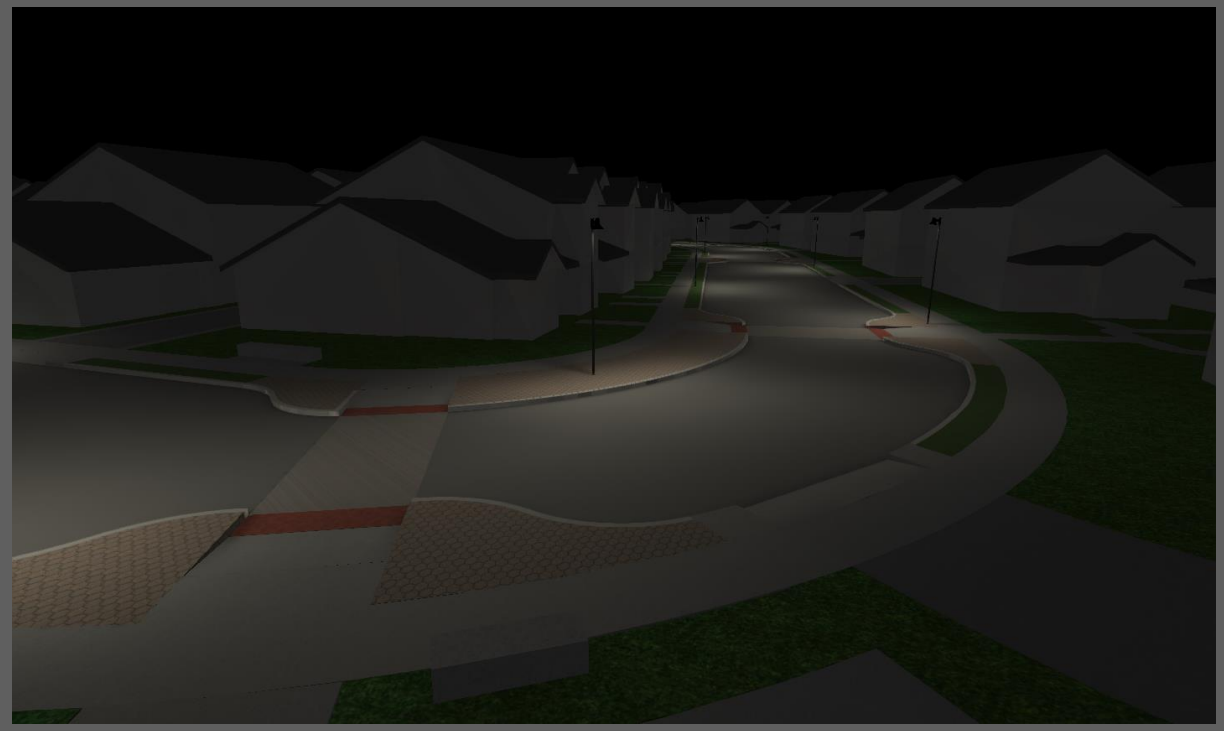
3D Rendering





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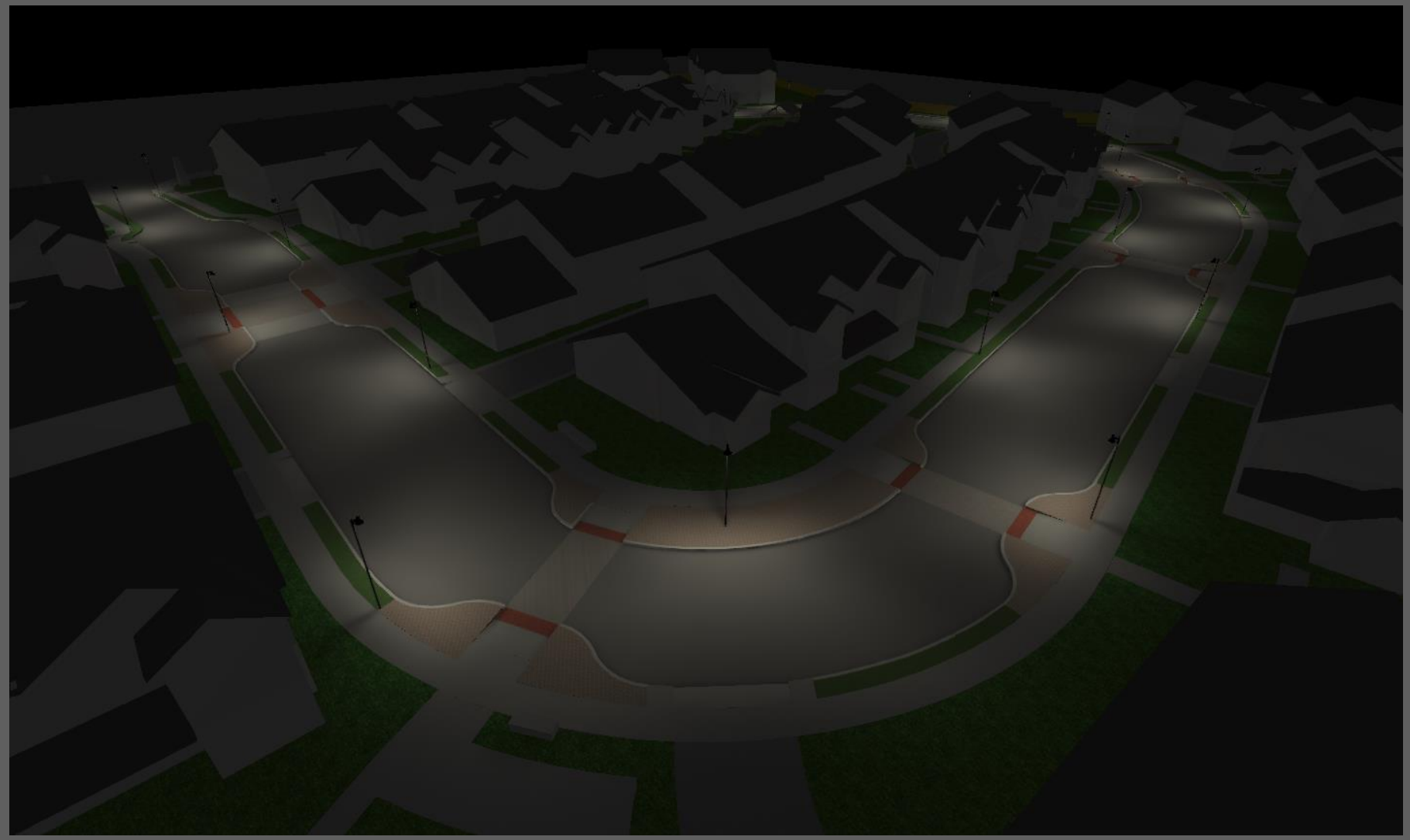
3D Rendering



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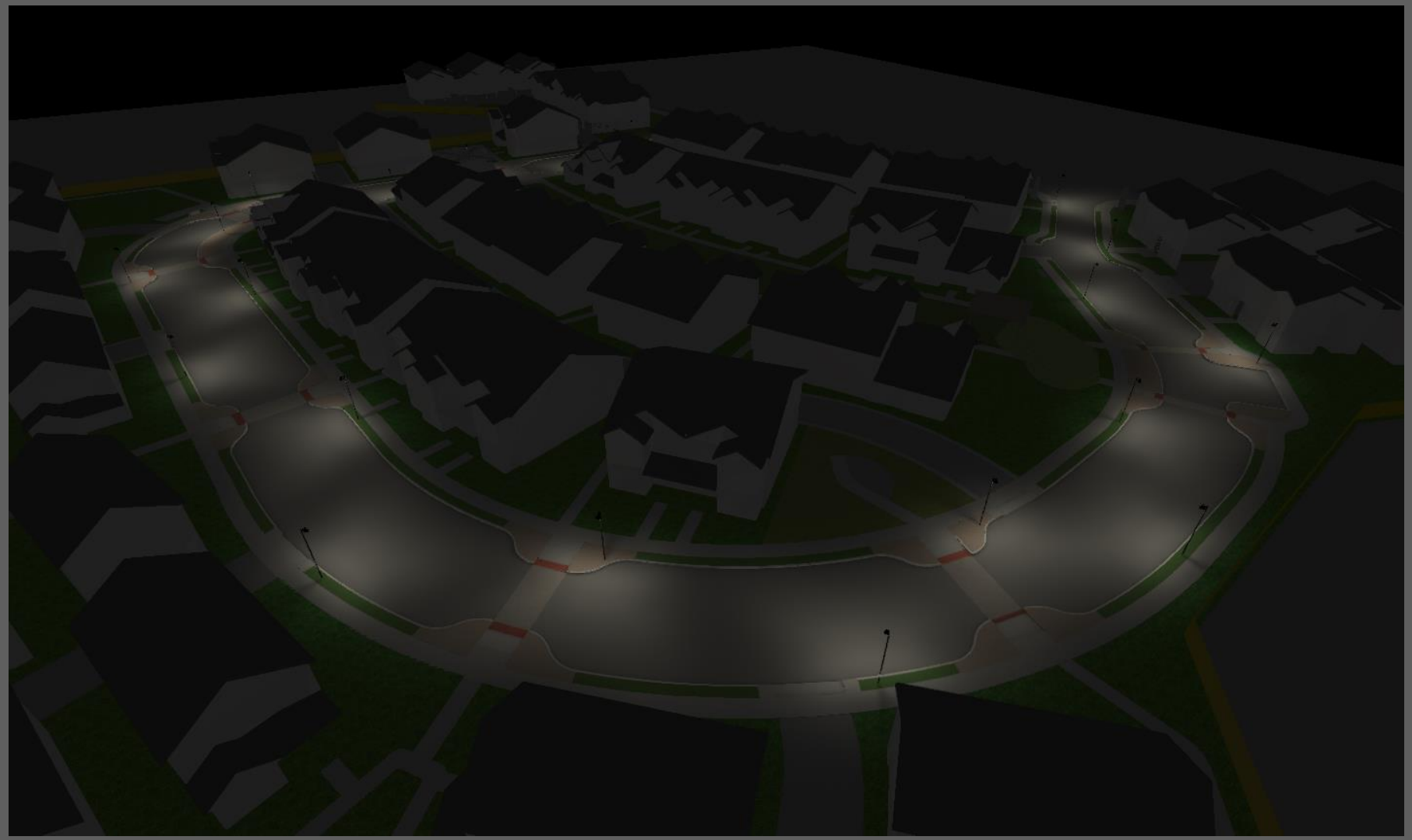
3D Rendering



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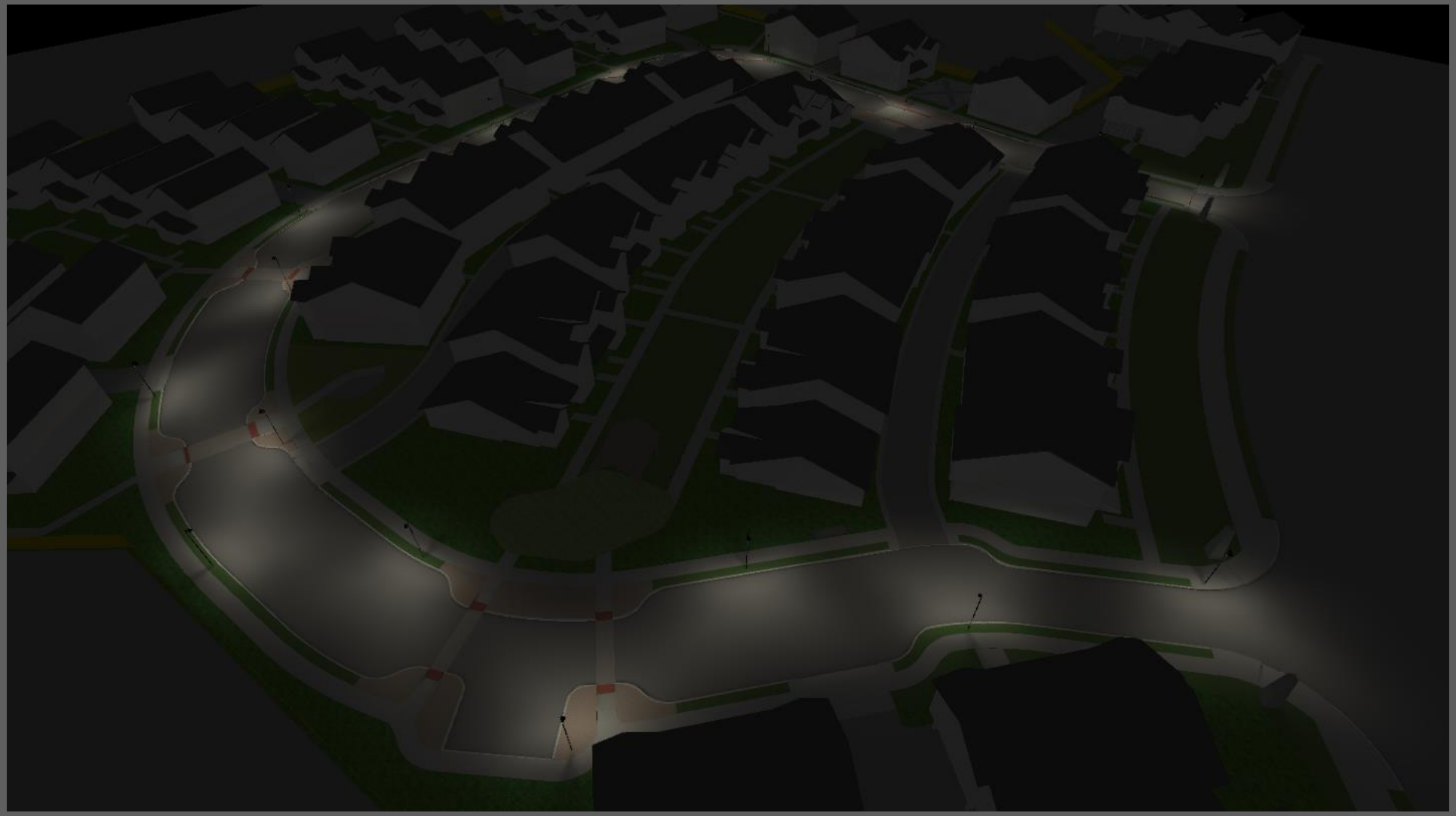
3D Rendering



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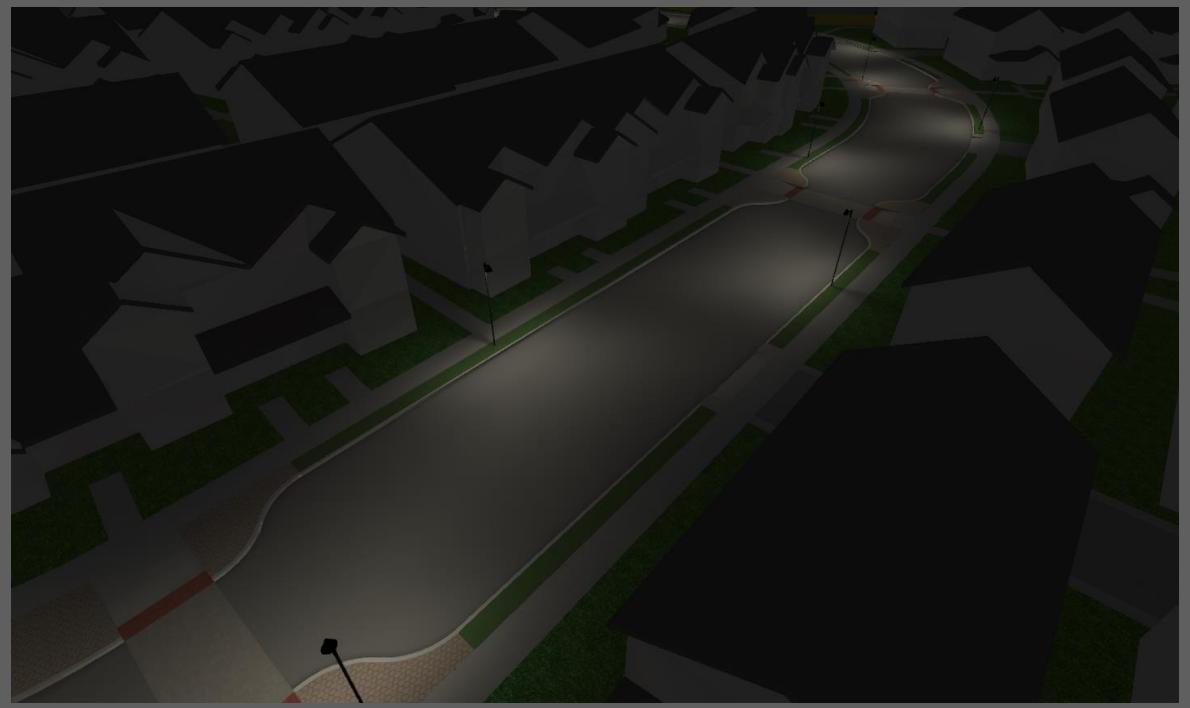

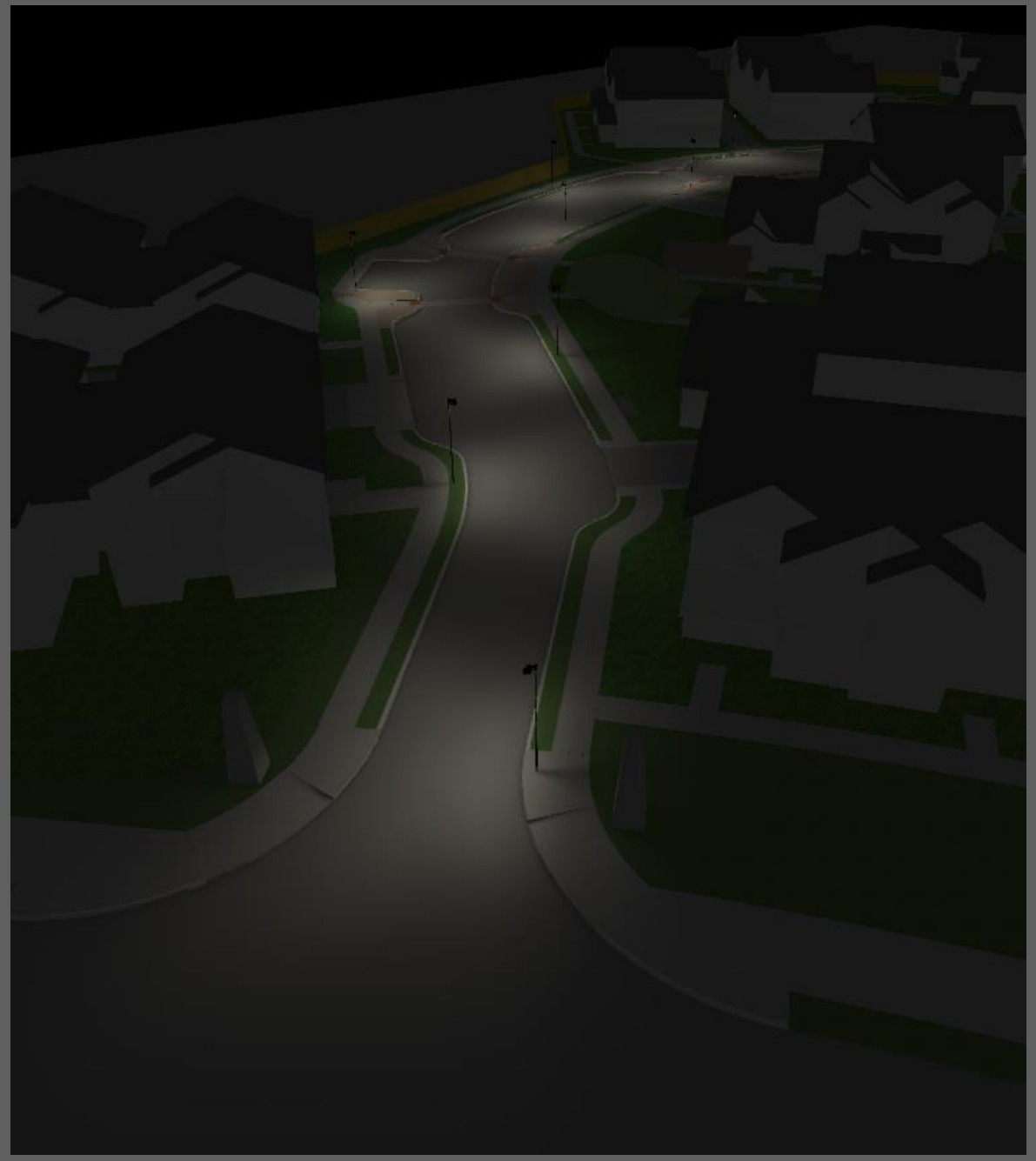

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For calculation result detail, Please see the calculation report PDF.
Or see the result on DWG drawing file.

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