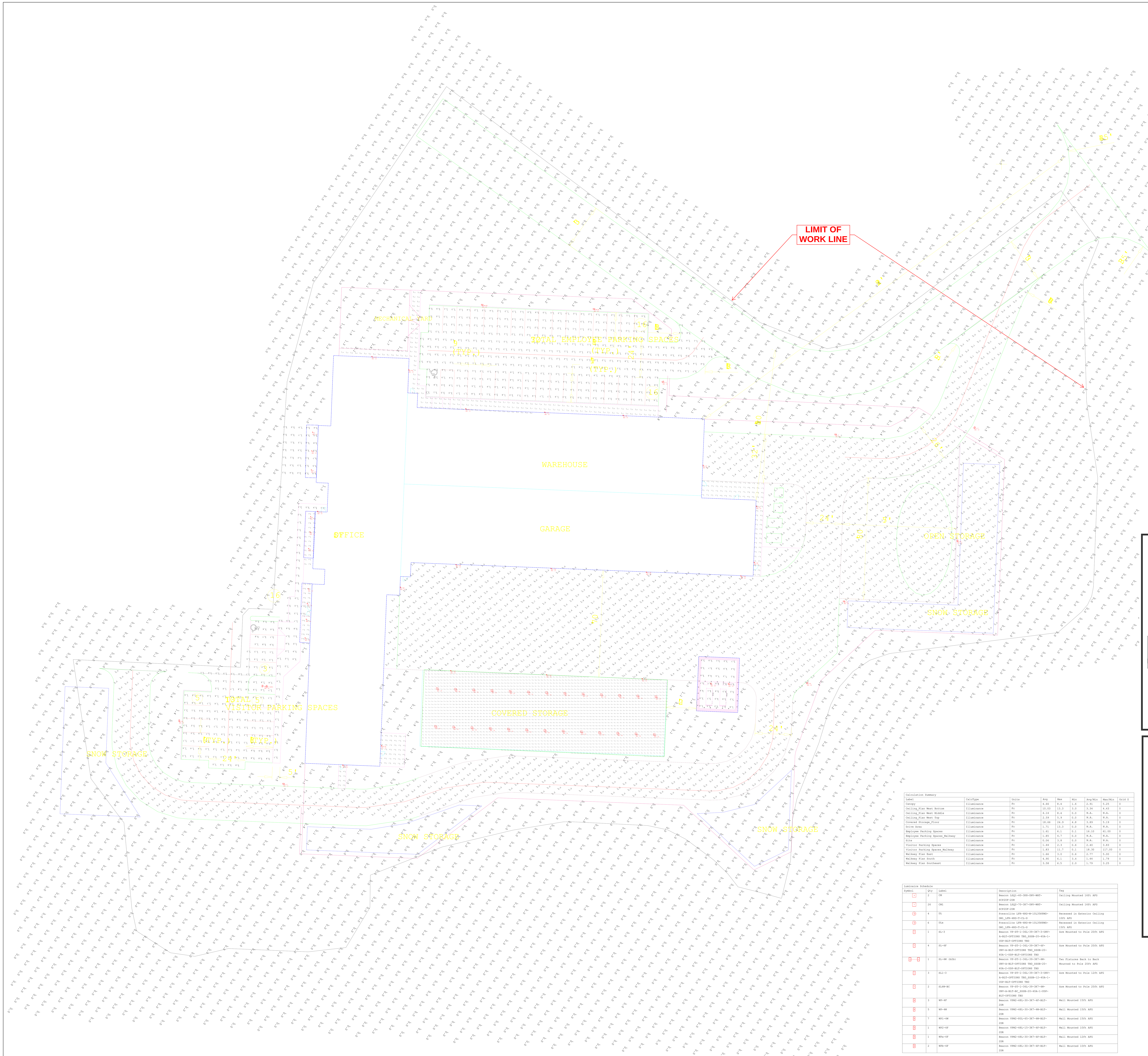
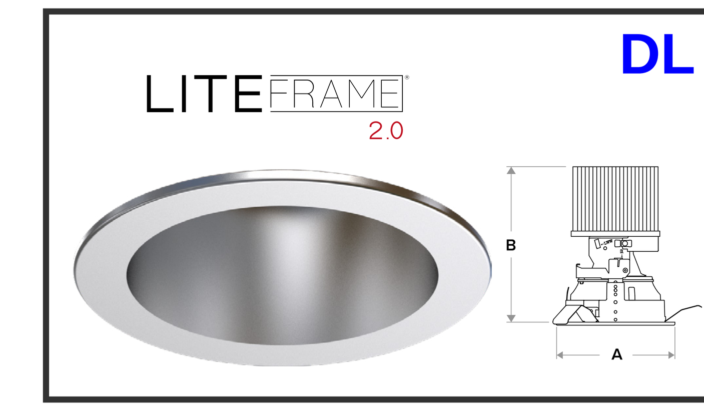


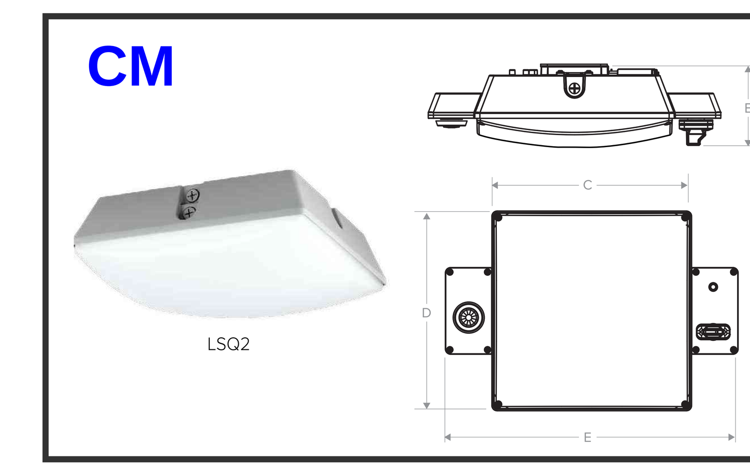
LIGHTING NOTES	
1	All lighting is LED
2	All lighting is full cut-off for and light trespass limited to the shared parking area at the Big-Y lot.
3	Proposed luminaires are basis of design. Final fixtures will match performance, but manufacturer will be determined in public bidding process.
4	Expired lighting will be disposed of pursuant to SHELD practices and Municipal procedures.

LIGHTING CONTROLS & OPERATIONS	
1	Exterior lighting fixtures will be wired into individual zones to a lighting control panel.
2	Zones will be separated into parking light poles, building-mounted lighting, exit door coverage, and Covered Storage.
3	Lights will come on at dusk via photocell control wired to the lighting control panel (100% in parking, service, and exit areas, 50% in rear operations yard and fueling station, and 0% in Covered Storage)
4	Site lighting will remain on at the above levels from dusk to dawn, in excess of the 0.5 fooocandle level, to support safe daily operations and ensure security at this Category IV Essential Municipal facility.
5	During emergency storm operations, lighting system will have override switching to increase rear operations yard, fueling, and Covered Storage to 100%.

DL



CM



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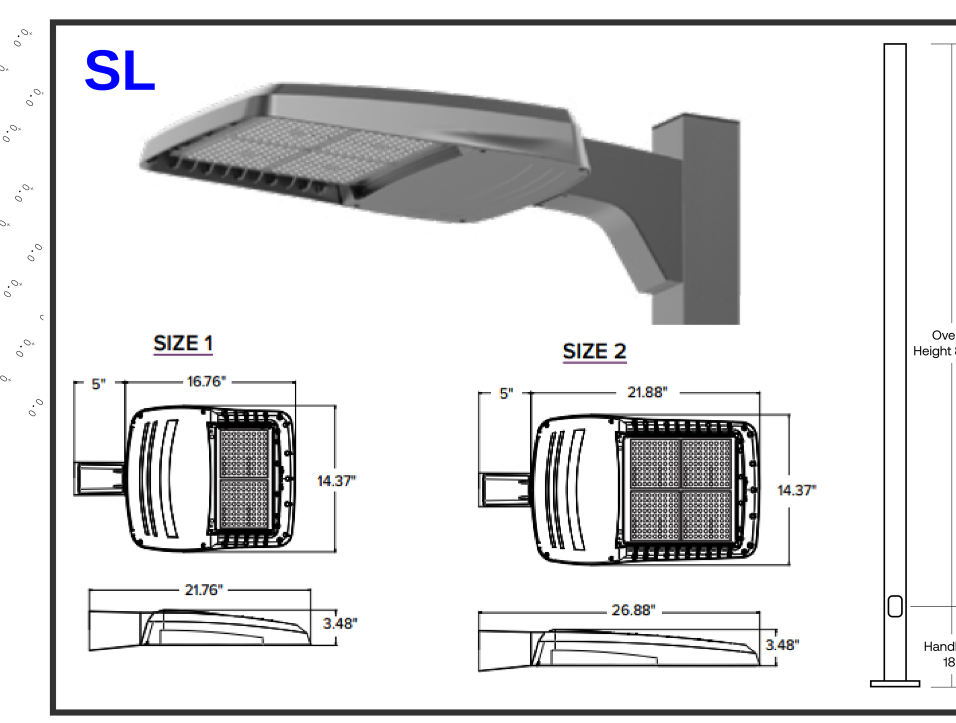
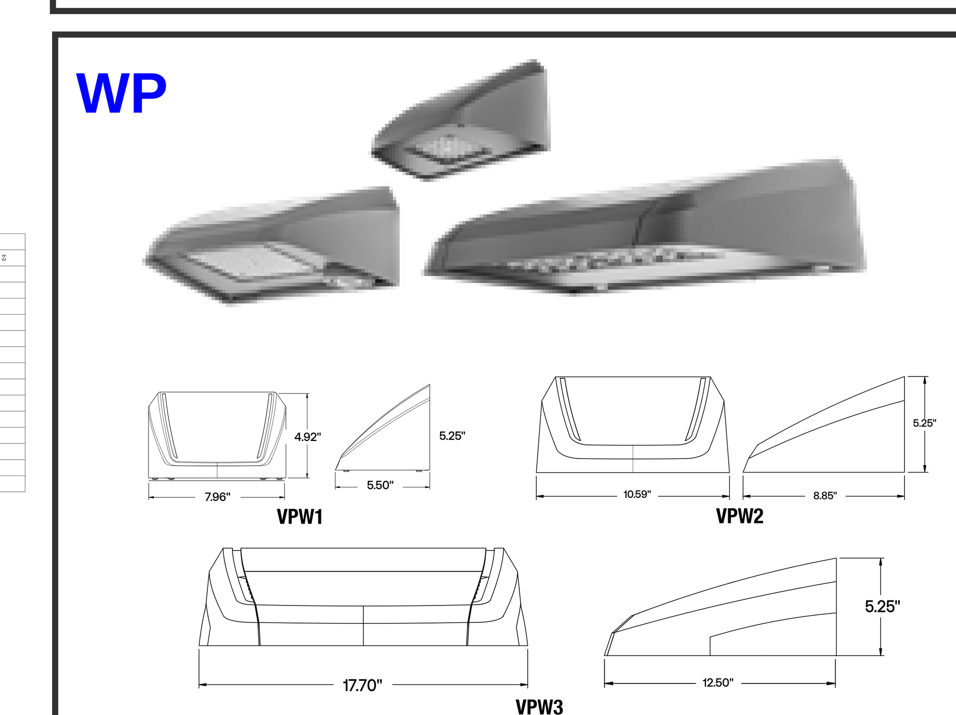


WP



Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
Canopy	Illuminance	Fc	4.66	8.4	1.6	2.91	5.25	0
Ceiling_Plan West Bottom	Illuminance	Fc	10.03	13.3	3.0	3.34	4.43	0
Ceiling_Plan West Middle	Illuminance	Fc	4.14	8.4	0.0	N.A.	N.A.	0
Ceiling_Plan West Top	Illuminance	Fc	2.59	5.9	0.0	N.A.	N.A.	0
Covered Storage_Floor	Illuminance	Fc	18.66	24.9	4.8	3.89	5.19	0
Drive Area	Illuminance	Fc	1.71	13.3	0.0	N.A.	N.A.	0
Employee Parking Spaces	Illuminance	Fc	1.61	6.1	0.1	16.10	61.00	0
Employee Parking Spaces_Walkway	Illuminance	Fc	1.85	4.7	0.0	N.A.	N.A.	0
Site	Illuminance	Fc	0.06	3.8	0.0	N.A.	N.A.	0
Visitor Parking Spaces	Illuminance	Fc	1.44	2.3	0.6	2.40	3.83	0
Visitor Parking Spaces_Walkway	Illuminance	Fc	1.83	11.7	0.1	18.30	117.00	0
Walkway Plan East	Illuminance	Fc	1.66	3.0	0.6	2.77	5.00	0
Walkway Plan South	Illuminance	Fc	4.90	6.1	3.4	1.44	1.79	0
Walkway Plan Southeast	Illuminance	Fc	3.58	6.5	2.0	1.79	3.25	0

Luminaire Schedule				
Symbol	Qty	Label	Description	Tag
	2	CM	Beacon LSQ1-40-3K8-UNV-WHT-SCP20F-2DR	Ceiling Mounted 16ft AFG
	26	CM1	Beacon LSQ2-70-3K7-UNV-WHT-SCP20F-2DR	Ceiling Mounted 16ft AFG
	4	DL	Prescolite LFR-4RD-M-10L35K8WD-DM1_LFR-4RD-T-CL-S	Recessed in Exterior Ceiling 10ft AFG
	6	DLa	Prescolite LFR-4RD-M-10L35K8WD-DM1_LFR-4RD-T-CL-S	Recessed in Exterior Ceiling 15ft AFG
	1	SL-3	Beacon VP-ST-1-36L-39-3K7-3-UNV-A-BLT-OPTIONS TBD_SSSB-20-40A-1-UDP-BLT-OPTIONS TBD	Arm Mounted to Pole 20ft AFG
	4	SL-4F	Beacon VP-ST-1-36L-39-3K7-4F-UNV-A-BLT-OPTIONS TBD_SSSB-20-40A-1-UDP-BLT-OPTIONS TBD	Arm Mounted to Pole 20ft AFG
	1	SL-4W (b2b)	Beacon VP-ST-1-36L-39-3K7-4W-UNV-A-BLT-OPTIONS TBD_SSSB-20-40A-2-UDP-BLT-OPTIONS TBD	Two Fixtures Back to Back Mounted to Pole 20ft AFG
	3	SL1-3	Beacon VP-ST-1-36L-39-3K7-3-UNV-A-BLT-OPTIONS TBD_SSSB-12-40A-1-UDP-BLT-OPTIONS TBD	Arm Mounted to Pole 12ft AFG
	2	SL4W-BC	Beacon VP-ST-1-36L-39-3K7-4W-UNV-A-BLT-BC_SSSB-20-40A-1-UDP-BLT-OPTIONS TBD	Arm Mounted to Pole 20ft AFG
	3	WP-4F	Beacon VPW2-48L-30-3K7-4F-BLT-2DR	Wall Mounted 15ft AFG
	5	WP-4W	Beacon VPW2-48L-30-3K7-4W-BLT-2DR	Wall Mounted 15ft AFG
	7	WP1-4W	Beacon VPW2-80L-65-3K7-4W-BLT-2DR	Wall Mounted 15ft AFG
	1	WP2-4F	Beacon VPW2-48L-15-3K7-4F-BLT-2DR	Wall Mounted 10ft AFG
	1	WPa-4F	Beacon VPW2-48L-30-3K7-4F-BLT-2DR	Wall Mounted 12ft AFG
	2	WPb-4F	Beacon VPW2-48L-30-3K7-4F-BLT-2DR	Wall Mounted 10ft AFG

Project:
Sheld HQ

LIGHT LEVEL STUDY WITH REAR OPERATIONS YARD LIGHTS AT 100% (EXPECTED DURING A NIGHTIME EMERGENCY EVENT)

Contact:
David Mainville
Specification Sales
(860) 942-4357
dmainville@illuminatene.com

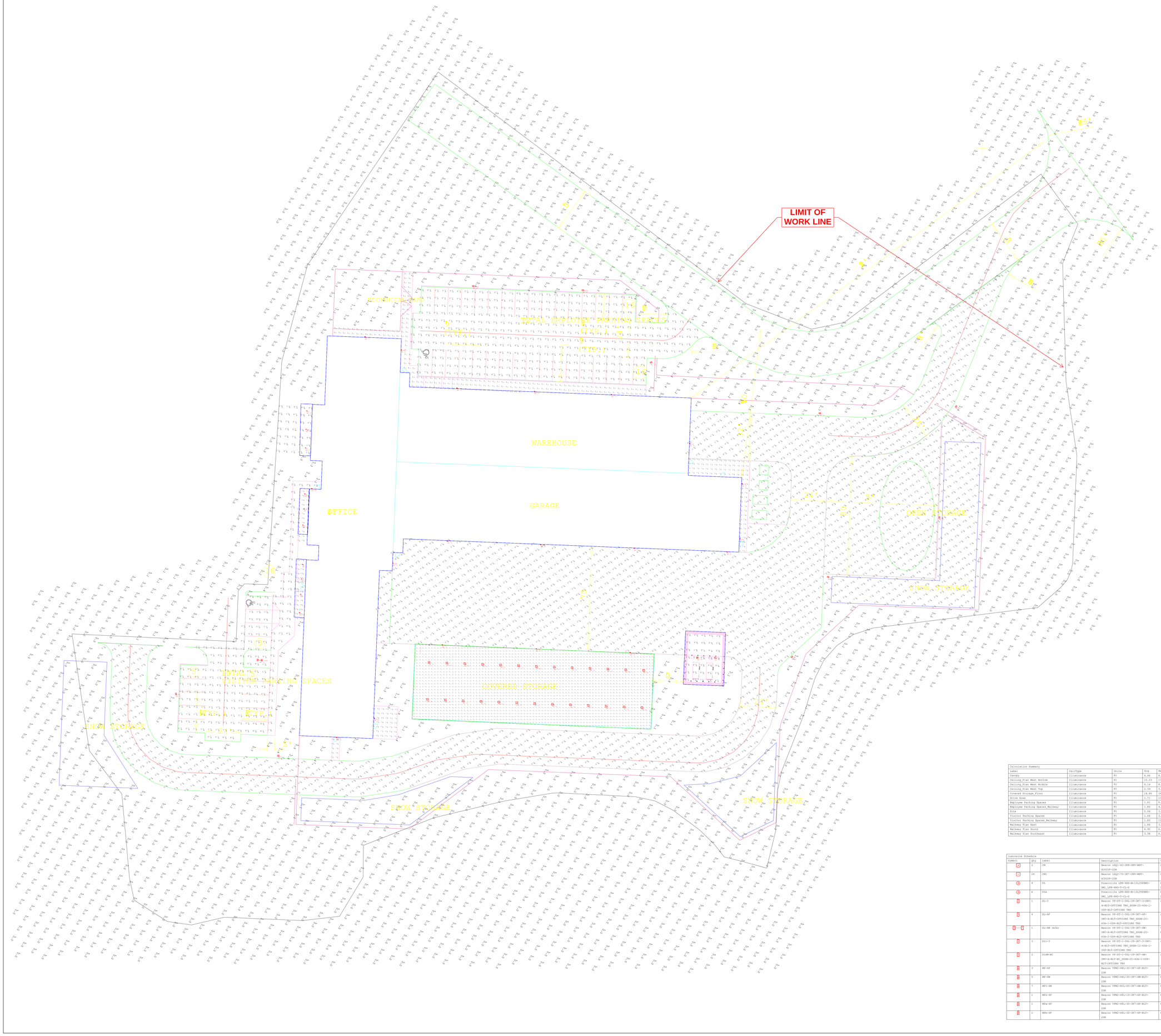
Detail: Photometric Calculation
Date: 2/26/2026
Revision:V6
Scale: 1" = 20'-0"
Drawn By: DM

illuminate
263 Winn Street
Burlington, MA 01803
(781) 935-8500

333 Pleasant Valley Road
South Windsor, CT 06074
(860) 282-0597

Drawing Number:

SL-1A



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	4	SL-4F	Beacon VP-ST-1-36L-39-3K7-4F-DNV-A-BLT-OPTIONS TBD_SSSB-2S-4SA-1-USP-BLT-OPTIONS TBD	Arm Mounted to Pole 20ft AFG
	1	SL-4W (b2b)	Beacon VP-ST-1-36L-39-3K7-4W-DNV-A-BLT-OPTIONS TBD_SSSB-2S-4SA-2-USP-BLT-OPTIONS TBD	Two Fixtures Back to Back Mounted to Pole 20ft AFG
	3	SL1-3	Beacon VP-ST-1-36L-39-3K7-3-DNV-A-BLT-OPTIONS TBD_SSSB-12-4SA-1-USP-BLT-OPTIONS TBD	Arm Mounted to Pole 12ft AFG
	2	SL4W-BC	Beacon VP-ST-1-36L-39-3K7-4W-DNV-A-BLT-BC_SSSB-2S-4SA-1-USP-BLT-OPTIONS TBD	Arm Mounted to Pole 20ft AFG
	3	WP-4F	Beacon VPW2-40L-30-3K7-4F-BLT-2DR	Wall Mounted 15ft AFG
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Project:
Sheld HQ

LIGHT LEVEL STUDY WITH REAR OPERATIONS YARD LIGHTS AT REDUCED LEVELS (50% WP-4W, 0% CM-1 COVERED STORAGE)

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Specification Sales
(860) 942-4357
dmainville@illuminatene.com

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Sheet 1 of 1