PL202000083 PL2020-83

LIMITS OF PUBLIC PARK (5,000 SF) SEE ENLARGEMENT

AREA WELL, SEE ARCH.

2' WIDE MAINTENANCE STRIP OVER WEED BARRIER OF 1.5" TRAP ROCK, 4" DEPTH

ON GRADE PATIO, SEE ARCH.

FFE: 804.0

DOUBLE SHREDDED HARDWOOD MULCH OVER FILTER FABRIC, TYP. SEE NOTES

STONE SLAB, TYP.

BIKE RACKS STALLS: 10

DECOMPOSED GRANITE

TRANSFORMER

WOODLAND SEED MIX IN DISTURBED AREAS AT REAR OF BUILDING

MAINTENANCE STRIP OVER WEED BARRIER OF 1.5" TRAP ROCK, 4" DEPTH

WOODLAND SEED MIX IN DISTURBED AREA

LEGEND

- DECIDUOUS OVERSTORY TREES
- ORNAMENTAL TREES
- EVERGREEN SHRUBS
- DECIDUOUS SHRUBS
- ORNAMENTAL GRASSES/PERENNIAL
- SOD
- POLY EDGING
- WOODLAND SEED MIX (SEE SEEDING NOTES)

FOR REVIEW ONLY
PRELIMINARY
NOT FOR CONSTRUCTION

N

0 15 30 60
SCALE IN FEET

Drawing name: X:\2019\190123\plan sheets\Final Plan Development\190123land.dwg May 06, 2020 - 1:26pm

ALLIANT ENGINEERING
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AMERICAN SQUARE APARTMENTS
BLOOMINGTON, MN

LANDSCAPE PLAN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

DAVID NASH, PE
12-30-19
Date License No.

QUALITY ASSURANCE/CONTROL

BY DATE

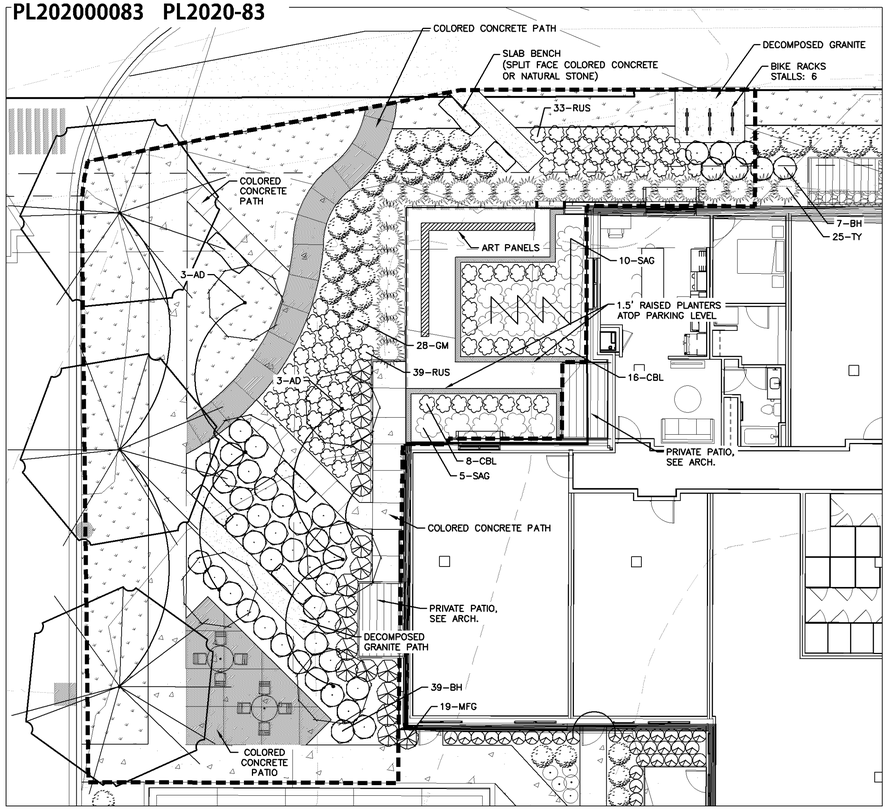
DATE	ISSUE
01-29-20	CITY SUBMITTAL
03-27-20	PROGRESS PLOT
05-06-20	REVISED CITY SUBMITTAL

PROJECT TEAM DATA

DESIGNED:	DMS/DJN
DRAWN:	KDB/DMS
PROJECT NO:	190123

L-1.0

PL202000083 PL2020-83



PUBLIC PARK LANDSCAPE ENLARGEMENT

1" = 10'

N

SCALE 0 5' 10' 20' IN FEET

PUBLIC PARK/PLAZA REQUIREMENTS

TOTAL PLAZA AREA
REQUIRED: 5,000 SF
PROVIDED: 5,000 SF

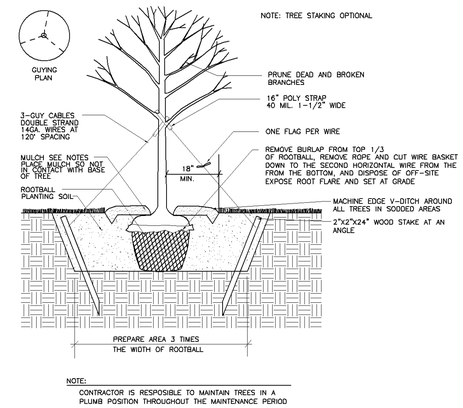
ABUTTING PUBLIC WAY
REQUIRED (350 LF X 25%): 87.5 LF
PROVIDED (25%): 88 LF

LANDSCAPE/WATER FEATURE
REQUIRED (30%): 1,500 SF
PROVIDED (60%): 3,019 SF

SEATING REQUIREMENT
REQUIRED (5,000/200 SF): 25 SEATS
PROVIDED (5,000/200 SF): 25 SEATS

LANDSCAPE NOTES:

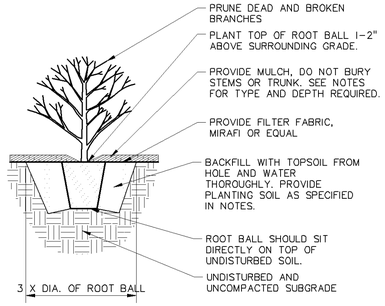
1. CALL GOPHER STATE ONE CALL AT 651-454-0002 FOR LOCATING ALL UNDERGROUND UTILITIES AND TO AVOID DAMAGE TO UTILITIES DURING THE COURSE OF THE WORK.
2. INSTALL 4" MIN. TOP SOIL TO ALL SOD AND SHRUB AREAS. FINE GRADE ALL SOD AREAS. INSTALL 12" PLANTING (TOP) SOIL TO ALL ANNUAL/PERENNIAL AREAS.
3. STAKE OR MARK ALL PLANT MATERIAL LOCATIONS PRIOR TO INSTALLATION. HAVE OWNERS REPRESENTATIVE APPROVE ALL STAKING PRIOR TO INSTALLATION.
4. ALL SHRUB AREAS UNLESS SPECIFIED AS OTHER ON THE PLAN, TO BE BED MULCHED WITH 4" DEPTH OF HARDWOOD MULCH, DARK BROWN COLOR, OVER FILTER FABRIC, POLY-EDGER TO BE VALLEY VIEW BLACK DIAMOND OR APPROVED.
5. ALL MULCH AND ROCK (BOULDERS, COBBLESTONE, ETC) TO BE APPROVED BY OWNER AND/OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
6. INSTALL 4-6" DEPTH SHREDDED HARDWOOD MULCH AROUND ROOT SAUCER OF ALL TREES ISOLATED FROM PLANT BEDS. DO NOT PLACE LANDSCAPE FABRIC OR MULCH ONTO TREE TRUNK.
7. PLANTING SOIL SHALL BE 1:1:1 CONSISTING OF 33% SELECT LOAMY TOPSOIL, 33% PEAT MOSS, 33% PIT RUN SAND.
8. COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. MAKE ALL REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER).
9. ALL MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN.
10. ALL TREE TRUNKS SHALL BE WRAPPED WITH BROWN CREPE TREE WRAP. APPLY WRAP IN NOVEMBER AND REMOVE IN APRIL.
11. MAINTAIN ALL PLANT MATERIALS, INCLUDING WATERING, UNTIL THE TIME OF ACCEPTANCE.
12. COORDINATE LANDSCAPE INSTALLATION WITH GENERAL CONTRACTOR.
13. STAKING AND GUYING OF TREES OPTIONAL: MAINTAIN PLUMBNESS OF TREES FOR DURATION OF WARRANTY PERIOD.
14. SWEEP AND WASH ALL PAVED SURFACES AND REMOVE ALL DEBRIS RESULTING FROM LANDSCAPE OPERATIONS DAILY.
15. SUPPLY DESIGN AND INSTALLATION FOR NEW IRRIGATION SYSTEM WITH 100% COVERAGE OF SOD AND PLANTING AREAS INCLUDING PLANTINGS ON THE POOL DECK (SEE SHEET L-2.0). USE RAINBIRD OR APPROVED EQUAL. COORDINATE INSTALLATION WITH G.C. SOD AND SHRUB AREAS TO BE ON SEPARATE ZONES. PROVIDE RAIN SENSOR.



NOTE:
CONTRACTOR IS RESPOSIBLE TO MAINTAIN TREES IN A PLUMB POSITION THROUGHOUT THE MAINTENANCE PERIOD

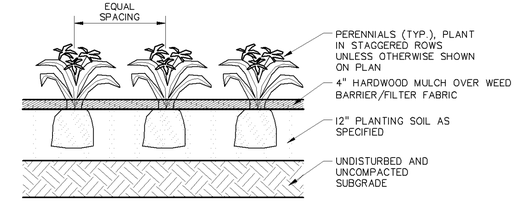
1 TREE PLANTING

NOT TO SCALE



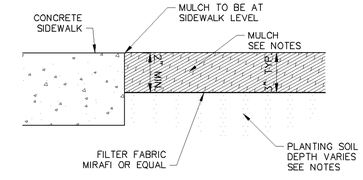
2 SHRUB PLANTING

NOT TO SCALE



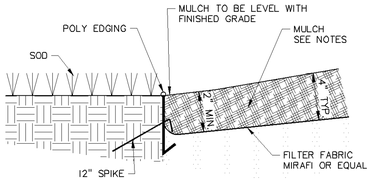
3 PERENNIAL PLANTINGS

NOT TO SCALE



4 MULCH AT SIDEWALK DETAIL

NOT TO SCALE



5 MULCH AT SOD DETAIL

NOT TO SCALE

LANDSCAPE SCHEDULE

QUANTITY	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE / ROOT TYPE	NOTES
OVERSTORY TREES					
8	HL	Northern Acclaim Honey Locust	Gleditsia Tricanthos var. inermis 'Harve'	2.5" cal. B&B	Straight Trunk, No V-Crotch
9	NH	New Horizon Elm	Ulmus carpinifolia 'New Horizon'	2.5" cal. B&B	Straight Trunk, No V-Crotch
7	SM	Autumn Spire Maple	Acer rubrum 'Autumn Spire'	2.5" cal. B&B	Straight Trunk, No V-Crotch
5	PB	Paper Birch	Betula papertfera	10' ht. B&B	Clump Form
4	RB	River Birch	Betula nigra	12' ht. B&B	Clump Form
EVERGREEN TREES					
5	BS	Black Hills Spruce	Picea densata 'Black Hills'	10' ht. B&B	Clump Form
ORNAMENTAL TREES					
6	AD	Adirondak Flowering Crab	Malus 'Adirondack'	1.5" cal. B&B	Straight Trunk, No V-Crotch
SHRUBS					
78	BH	Dwarf Bush Honeysuckle	Dierylla lonicera	18" ht. cont.	Min. 5 canes at ht. spec.
51	GM	Goldmound Spirea	Spirea x 'Goldmound'	18" ht. cont.	Min. 5 canes at ht. spec.
9	HA	Holmstrup Arborvitae	Thuja occidentalis 'Holmstrup'	6' ht. B&B	Full Form
58	LH	Lime Light Hydrangea	Hydrangea paniculata 'Limelight'	18" ht. cont.	Min. 5 canes at ht. spec.
6	RD	Red Twig Dogwood	Cornus Alba	36" ht cont.	Min. 5 canes at ht. spec.
8	SJ	Scandia Juniper	Juniperus sabina 'Scandia'	18" ht. cont.	Min. 5 canes at ht. spec.
58	TY	Taunton Yew	Taxus x media 'Taunton'	24" ht. cont.	Full Form
PERENNIALS & ORNAMENTAL GRASSES					
65	CBL	Champagne Coral Bells	Heuchera 'Champagne'	1 gal cont.	
8	GRZ	Miscanthus Graziella	Miscanthus sinensis 'Graziella'	3 gal cont.	
55	LBS	Little Bluestem	Schizachyrium scoparium	1 gal cont.	
32	MFG	Miscanthus Flame	Miscanthus sinensis 'Purpuascens'	3 gal cont.	
72	RUS	Little Spire Russian Sage	Perovskia atriplicifolia 'Little Spire'	1 gal cont.	
25	SAG	Sagae Hosta	Hosta 'Sagae'	1 gal cont.	
10	SSD	Stella Supreme Daylily	Hemerocallis 'Stella Supreme'	1 gal cont.	
84	WLC	Walker's Low Catmint	Nepeta x faasenii 'Walker's Low'	1 gal cont.	

LANDSCAPE REQUIREMENTS

DEVELOPABLE AREA:

TOTAL DEVELOPABLE AREA: 108,963 SF
APPLE TREE 4TH ADD.
- LOT 1 BLK 1
- OUTLOT A

LANDSCAPE CALCULATIONS:

TREES REQUIRED: 44 TREES
(1/2,500 SF DEVELOPABLE)

TREES PROVIDED: 44 TREES

SHRUBS REQUIRED: 109 SHRUBS
(1/1,000 SF DEVELOPABLE)

SHRUBS PROVIDED: 268 SHURBS

NOTE: TREES NOT REQUIRED IN PARKING LOTS WITH 50 OR FEWER SPACES.

SEED PLANTING NOTES:

WOODLAND SEED MIX- MN STATE SEED MIX #36-711 WOODLAND EDGE CENTRAL
SEEDING RATE TO BE 35.5 LBS/ACRE (PURE LIVE SEED)

APPLY SEED PER THE FOLLOWING: MULCH SEEDED AREAS WITH MnDOT TYPE 3 (MCIA CERTIFIED WEED FREE) MULCH AT A RATE OF 1 TON PER ACRE WITHIN 48 HOURS OF SEEDING. MULCH SHOULD THEN BE DISC ANCHORED TO KEEP IT FROM BLOWING AWAY.

SEEDING SHALL BE APPLIED FROM APRIL 15 - JUNE 30 OR NOVEMBER 1 - FREEZE UP. IF HYDROSEEDING UTILIZE APPROXIMATELY 500 GALLONS OF WATER PER ACRE. REFER TO MN/DOT SPEC 3884 FOR PROPER INSTALLATION OF HYDRO-SEED. ALL NATIVE SEEDS USED ON THIS PROJECT SHALL BE CERTIFIED TO BE OF MINNESOTA ORIGIN BY THE MINNESOTA CROP IMPROVEMENT ASSOCIATION (MCIA). SITE TO BE PREPARED BY LOOSENING TOPSOIL TO A MINIMUM DEPTH OF 3 INCHES. THE SITE TO BE HARROWED OR RAKED FOLLOWING SEEDING, AND THEN PACKED USING A CULTI-PACKER OR EQUIVALENT. SEE MNDOT SEEDING MANUAL FOR REFERENCE.

MAINTAIN SEEDED AREAS BY WATERING, REMULCHING AND REPLANTING AS NECESSARY TO ESTABLISH A UNIFORMLY DENSE STAND OF THE SPECIFIED GRASSES UNTIL ACCEPTED. ANY AREAS FAILING TO ESTABLISH A STAND SHALL BE RESEEDED, REFERTILIZED AND REMULCHED WHENEVER 70% VEGETATIVE COVER IS NOT ACHIEVED. RESEEDING SHALL CONFORM IN ALL RESPECTS TO THESE SPECIFICATIONS. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE WORK AREAS RESULTING FROM EROSION AND/OR EQUIPMENT. THE CONTRACTOR SHALL REPAIR DAMAGE, INCLUDING REGRADING, RESEEDING, ETC. AS NECESSARY, BEFORE SIGNIFICANT DAMAGE OCCURS.

REFER TO MINNESOTA STATE SEED MIX MANUAL.

SOIL PREPARATION:

1. PRIOR TO THE INSTALLATION OF THE LANDSCAPE AND IRRIGATION SYSTEM, CONTRACTOR TO PREPARE SOIL TO ENSURE A PROPER ENVIRONMENT FOR PLANT ROOT DEVELOPMENT.
2. CONTRACTOR TO DE-COMPACT SOILS IN PLANTING AREAS BY ROTO-TILLING, DISKING OR RIPPING TO DEPTH OF 6-8" MINIMUM AND PREFERABLE A DEPTH OF 12-18". DE-COMPACTION OF SMALL PLANTER AREAS, SUCH AS THOSE IN PARKING LOT AREAS, MAY REQUIRE THE REMOVAL OF THE COMPACTED SOIL TO A DEPTH OF 18" OR MORE AND THEN RE-INSTALLED LOOSELY WITH REQUIRED AMENDMENTS. ALWAYS REMOVE DEBRIS OVER 2" IN SIZE FROM THE SOIL.
3. WHEN PERFORMING SOIL DE-COMPACTION, MULTIPLE PASSES ACROSS THE AREA WILL BE REQUIRED AND, WHEN POSSIBLE, SHOULD BE AT VARYING ANGLES TO ENSURE ADEQUATE COVERAGE. WHEN USING DISC OR RIPPING EQUIPMENT, IT IS REQUIRED THAT THE FINAL PASSES OVER THE AREA BE MADE WITH A ROTO-TILLER TO BREAK UP ANY LARGE CLUMPS TO MAKE FINAL GRADING EASIER.
4. AFTER INITIAL SOIL DE-COMPACTION PROCEDURES ARE PERFORMED, SOIL AMENDMENTS SHOULD BE ADDED. THE ADDITION OF SOIL AMENDMENTS IS DETERMINED FROM SOIL TESTS CONDUCTED PRIOR TO WORK COMMENCING. SOIL AMENDMENT MAY INCLUDE INORGANIC MATERIAL SUCH AS SAND, SILT OR CLAY, WHICH HELP IMPROVE SOIL TEXTURE. ORGANIC MATERIAL SUCH AS COMPOST, MANURE, AND PEAT MOSS MAY ALSO BE USED AND HELP IMPROVE SOIL STRUCTURE. OTHER AMENDMENTS SUCH AS FERTILIZER IMPROVE NUTRIENT CONTENT AND SULFUR ADJUSTS THE SOIL PH LEVEL. SULFUR SHALL BE INCORPORATED AT THE RATE OF ONE POUND OF SULFUR PER 100 SQUARE FEET.
5. ALL AMENDMENTS SHOULD BE MIXED THOROUGHLY WITH EXISTING SOIL AND AN ADDITIONAL SOIL TEST WILL BE TAKEN TO ENSURE PROPER SOIL CONDITIONS PRIOR TO PLANTING.

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LANDSCAPE DETAILS

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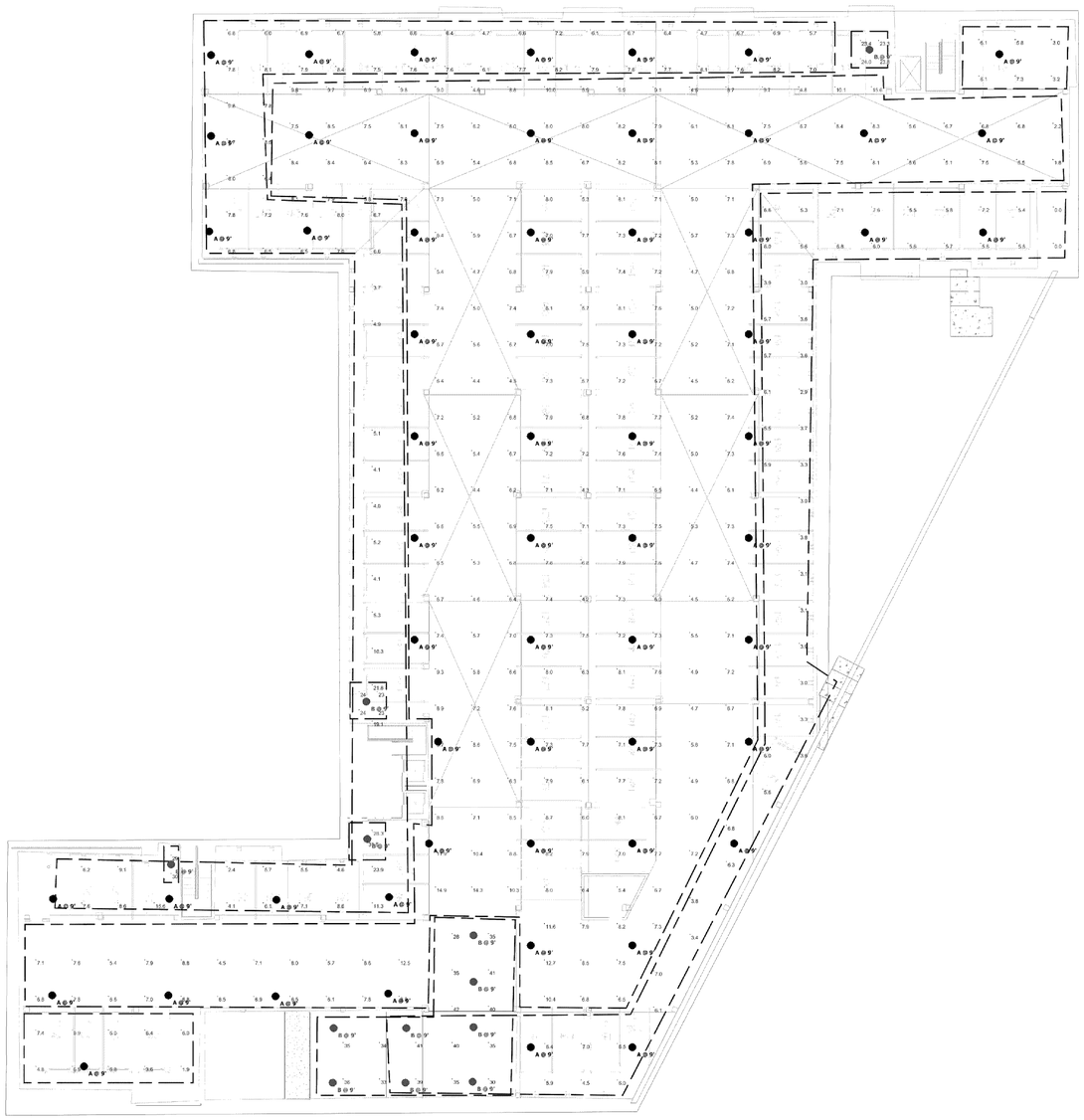
PROJECT TEAM DATA

DESIGNED:	DMS/DJN
DRAWN:	KDB/DMS
PROJECT NO:	190123

L-2.0

Drawing name: X:\2019\190123\plan sheets\Final Plan Development\190123land.dwg May 06, 2020 - 1:26pm

PL202000083 PL2020-83



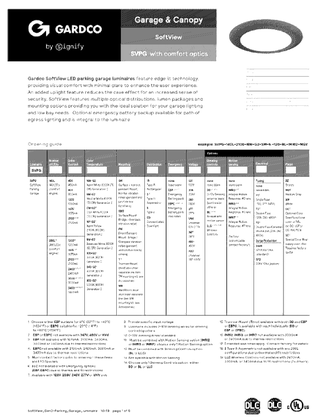
Fixtures Mounted 9' AFF
Reflectances Used- 30/30/20

Plan View
Scale - 1" = 16ft

Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Light Loss Factor	Wattage
◯	A	60	GARDCO	SVPG-140L-1200-NW-G2--5	SoftView Parking Garage (SVPG), 140 LED's, 4000K CCT, TYPE 5 OPTIC	(1) COMFORT Light Engine DRIVEN AT 1200mA	svpg-140l-1200-nw-g2-5.ies	1	53.9
◯	B	12	GARDCO	SVPG-266L-2400-NW-G2--CD	SoftView Parking Garage (SVPG), 266 LED's, 4000K CCT, TYPE CD OPTIC	(1) COMFORT Light Engine DRIVEN AT 2400mA	svpg-266l-2400-nw-g2-cd.ies	1	107.6

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Perimeter	+	7.8 fc	28.3 fc	2.4 fc	11.8:1	3.3:1
Main Parking	+	7.1 fc	15.6 fc	1.8 fc	8.7:1	3.9:1
North Ped Entrance	+	23.6 fc	24.0 fc	23.3 fc	1.0:1	1.0:1
Ped Elevators	+	31.8 fc	31.8 fc	31.8 fc	1.0:1	1.0:1
Perimeter	+	5.9 fc	9.9 fc	1.9 fc	5.2:1	3.1:1
Perimeter	+	5.6 fc	8.1 fc	3.0 fc	2.7:1	1.9:1
Perimeter	+	5.0 fc	7.6 fc	0.0 fc	N/A	N/A
SW Ped Entrance	+	30 fc	30 fc	29 fc	1.0:1	1.0:1
Vehicle Entrance	+	36 fc	42 fc	28 fc	1.5:1	1.3:1
West Ped Entrance	+	24 fc	24 fc	23 fc	1.0:1	1.0:1

Power Statistics				
Description	# Luminaires	Total Watts	Area	Density
Power Density Zone # 3	72	4525.2 W	52890.3 ft²	0.1 W/ft²



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AMERICAN SQUARE

American Blvd. E & 34th Ave. S, Bloomington, Minnesota 55425

ARCHITECTURAL SHEETS ISSUED FOR REFERENCE ONLY

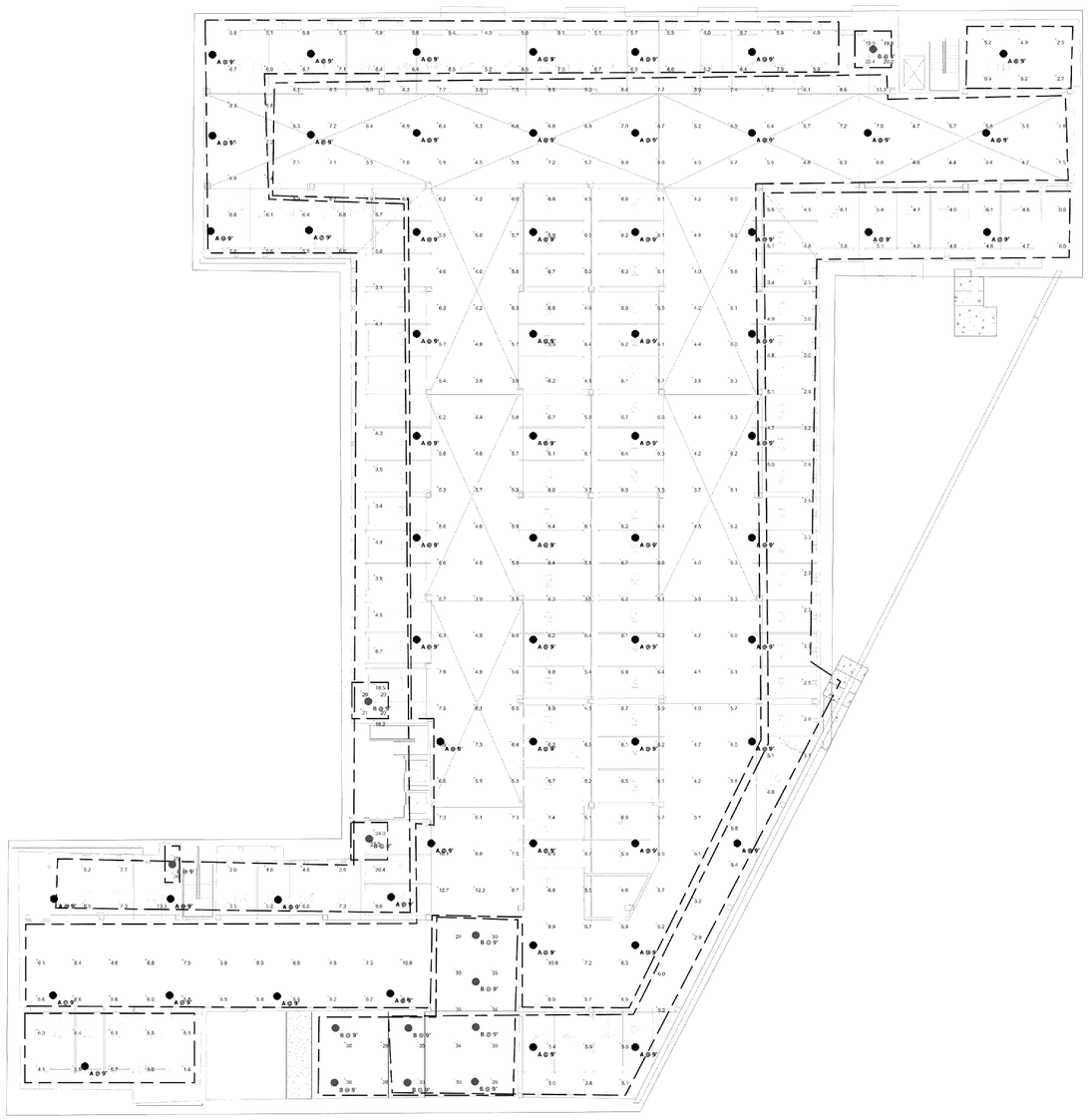
NOT FOR CONSTRUCTION

Date	05/06/20
Project Architect	MS
Principal in Charge	JBW
Project Number	19020

FDP LIGHTING PLAN - LOWER GARAGE
INITIAL

A4.1-F

PL202000083 PL2020-83



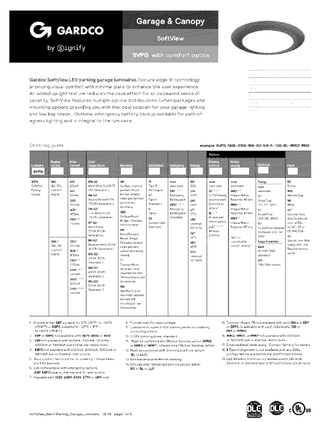
Fixtures Mounted 9' AFF
Reflectances Used- 30/30/20

Plan View
Scale - 1" = 16ft

Schedule									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Light Loss Factor	Wattage
◯	A	60	GARDCO	SVPG-140L-1200-NW-G2--5	SoftView Parking Garage (SVPG), 140 LED's, 4000K CCT, TYPE 5 OPTIC	(1) COMFORT Light Engine DRIVEN AT 1200mA	svpg-140l-1200-nw-g2-5.ies	0.85	53.9
◯	B	12	GARDCO	SVPG-266L-2400-NW-G2--CD	SoftView Parking Garage (SVPG), 266 LED's, 4000K CCT, TYPE CD OPTIC	(1) COMFORT Light Engine DRIVEN AT 2400mA	svpg-266l-2400-nw-g2-cd.ies	0.85	107.6

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Perimeter	+	6.6 fc	24.0 fc	2.0 fc	12.0:1	3.3:1
Main Parking	+	6.0 fc	13.3 fc	1.5 fc	8.9:1	4.0:1
North Ped Entrance	+	20.1 fc	20.4 fc	19.8 fc	1.0:1	1.0:1
Ped Elevators	+	27.0 fc	27.0 fc	27.0 fc	1.0:1	1.0:1
Perimeter	+	5.0 fc	8.4 fc	1.6 fc	5.3:1	3.1:1
Perimeter	+	4.7 fc	6.9 fc	2.5 fc	2.8:1	1.9:1
Perimeter	+	4.2 fc	6.4 fc	0.0 fc	N/A	N/A
SW Ped Entrance	+	26 fc	26 fc	25 fc	1.0:1	1.0:1
Vehicle Entrance	+	31 fc	36 fc	24 fc	1.5:1	1.3:1
West Ped Entrance	+	20 fc	21 fc	20 fc	1.1:1	1.0:1

Power Statistics				
Description	# Luminaires	Total Watts	Area	Density
Power Density Zone # 3	72	4525.2 W	52890.3 ft²	0.1 W/ft²



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AMERICAN SQUARE

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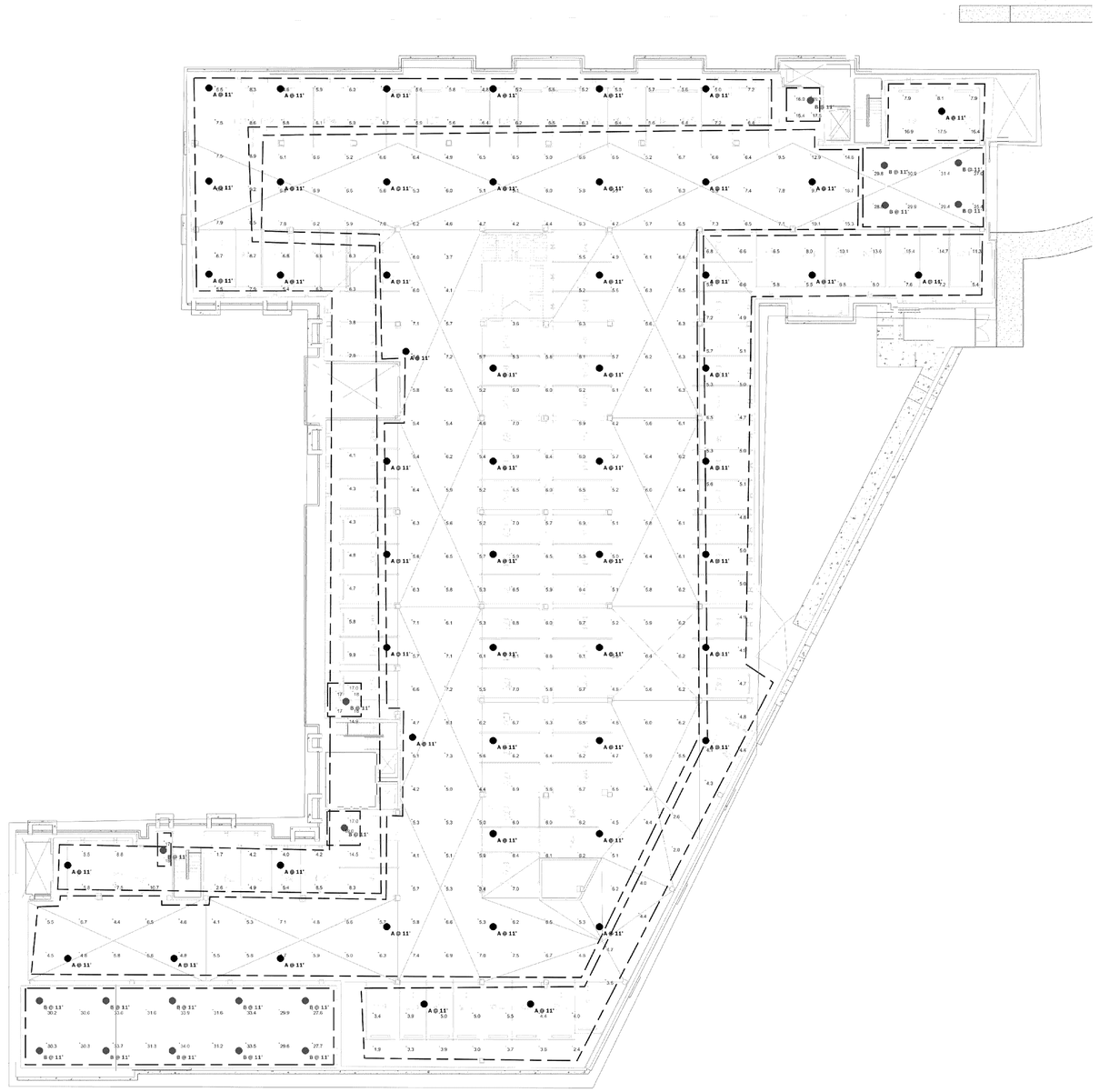
Date	05/06/20
Project Architect	MS
Principal in Charge	JBV
Project Number	19026

FDP LIGHTING PLAN - LOWER GARAGE MAINTAINED

A4.2-F

PL202000083 PL2020-83



Fixtures Mounted 11' AFF
Reflectances Used- 30/30/20

Plan View
Scale - 1" = 15ft

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Light Loss Factor	Wattage
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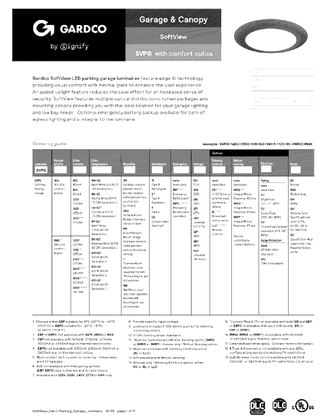
◯	B	18	GARDCO	SVPG-266L-2400-NW-G2-CD	SoftView Parking Garage (SVPG), 266 LED's, 4000K CCT, TYPE CD OPTIC	(1) COMFORT Light Engine DRIVEN AT 2400mA	svpg-266l-2400-nw-g2-cd.ies	1	107.6

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Perimeter	+	6.6 fc	17.0 fc	1.7 fc	10.0:1	3.9:1
Lower Ramp Entrance	+	31.3 fc	34.0 fc	27.6 fc	1.2:1	1.1:1
Main Area	+	6.1 fc	18.7 fc	3.4 fc	5.5:1	1.8:1
NE Vehicle Entrance	+	29.0 fc	31.4 fc	25.4 fc	1.2:1	1.1:1
North Ped Entrance	+	17.0 fc	19.3 fc	15.4 fc	1.3:1	1.1:1
Ped Elevators	+	19.0 fc	19.0 fc	19.0 fc	1.0:1	1.0:1
Perimeter	+	12.4 fc	17.5 fc	7.9 fc	2.2:1	1.6:1
Perimeter	+	5.6 fc	15.4 fc	1.9 fc	8.1:1	2.9:1
SW Ped Entrance	+	18 fc	18 fc	17 fc	1.1:1	1.1:1
West Ped Entrance	+	18 fc	18 fc	17 fc	1.1:1	1.1:1

Power Statistics

Description	# Luminaires	Total Watts	Area	Density
Power Density Zone # 2	71	4793.5 W	54898.6 ft²	0.1 W/ft²



Momentum Design Group
715 North Hampton Avenue, #150
St. Paul, Minnesota 55114
952.583.5786

AMERICAN SQUARE

American Blvd. E & 34th Ave. S, Bloomington, Minnesota 55425

Date	05/06/20
Project Architect	MS
Principal in Charge	JBW
Project Number	19020

FDP LIGHTING PLAN - UPPER GARAGE
INITIAL

A4.3-F

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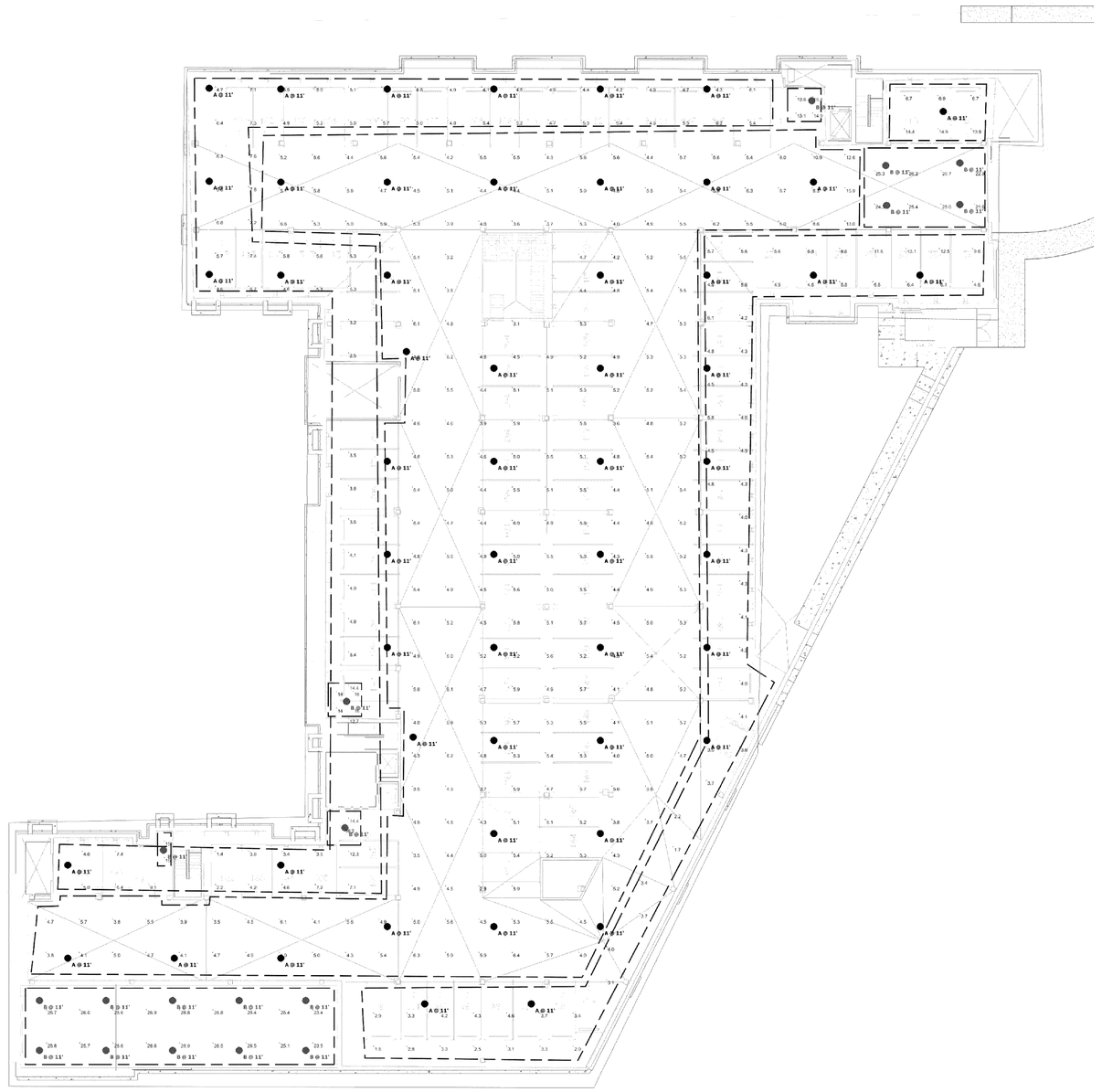


Fixtures Mounted 11' AFF
Reflectances Used- 30/30/20

Plan View
Scale - 1" = 16ft

Schedule

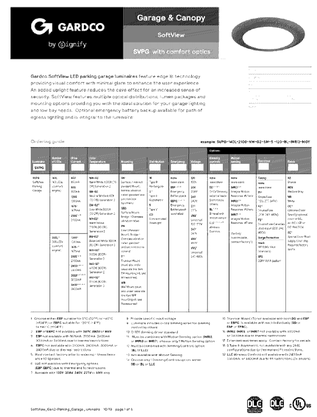
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Light Loss Factor	Wattage
◯	A	53	GARDCO	SVPG-140L-1200-NW-G2-5	SoftView Parking Garage (SVPG), 140 LED's, 4000K CCT, TYPE 5 OPTIC	(1) COMFORT Light Engine DRIVEN AT 1200mA	svpg-140l-1200-nw-g2-5.ies	0.85	53.9
◯	B	18	GARDCO	SVPG-266L-2400-NW-G2-CD	SoftView Parking Garage (SVPG), 266 LED's, 4000K CCT, TYPE CD OPTIC	(1) COMFORT Light Engine DRIVEN AT 2400mA	svpg-266l-2400-nw-g2-cd.ies	0.85	107.6

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Perimeter	+	5.6 fc	14.4 fc	1.4 fc	10.3:1	4.0:1
Lower Ramp Entrance	+	26.6 fc	28.9 fc	23.4 fc	1.2:1	1.1:1
Main Area	+	5.2 fc	15.9 fc	2.9 fc	5.5:1	1.8:1
NE Vehicle Entrance	+	24.7 fc	26.7 fc	21.6 fc	1.2:1	1.1:1
North Ped Entrance	+	14.5 fc	16.4 fc	13.1 fc	1.3:1	1.1:1
Ped Elevators	+	16.2 fc	16.2 fc	16.2 fc	1.0:1	1.0:1
Perimeter	+	10.6 fc	14.9 fc	6.7 fc	2.2:1	1.6:1
Perimeter	+	4.8 fc	13.1 fc	1.6 fc	8.2:1	3.0:1
SW Ped Entrance	+	15 fc	15 fc	15 fc	1.0:1	1.0:1
West Ped Entrance	+	15 fc	16 fc	14 fc	1.1:1	1.1:1

Power Statistics

Description	# Luminaires	Total Watts	Area	Density
Power Density Zone # 2	71	4793.5 W	54898.6 ft²	0.1 W/ft²



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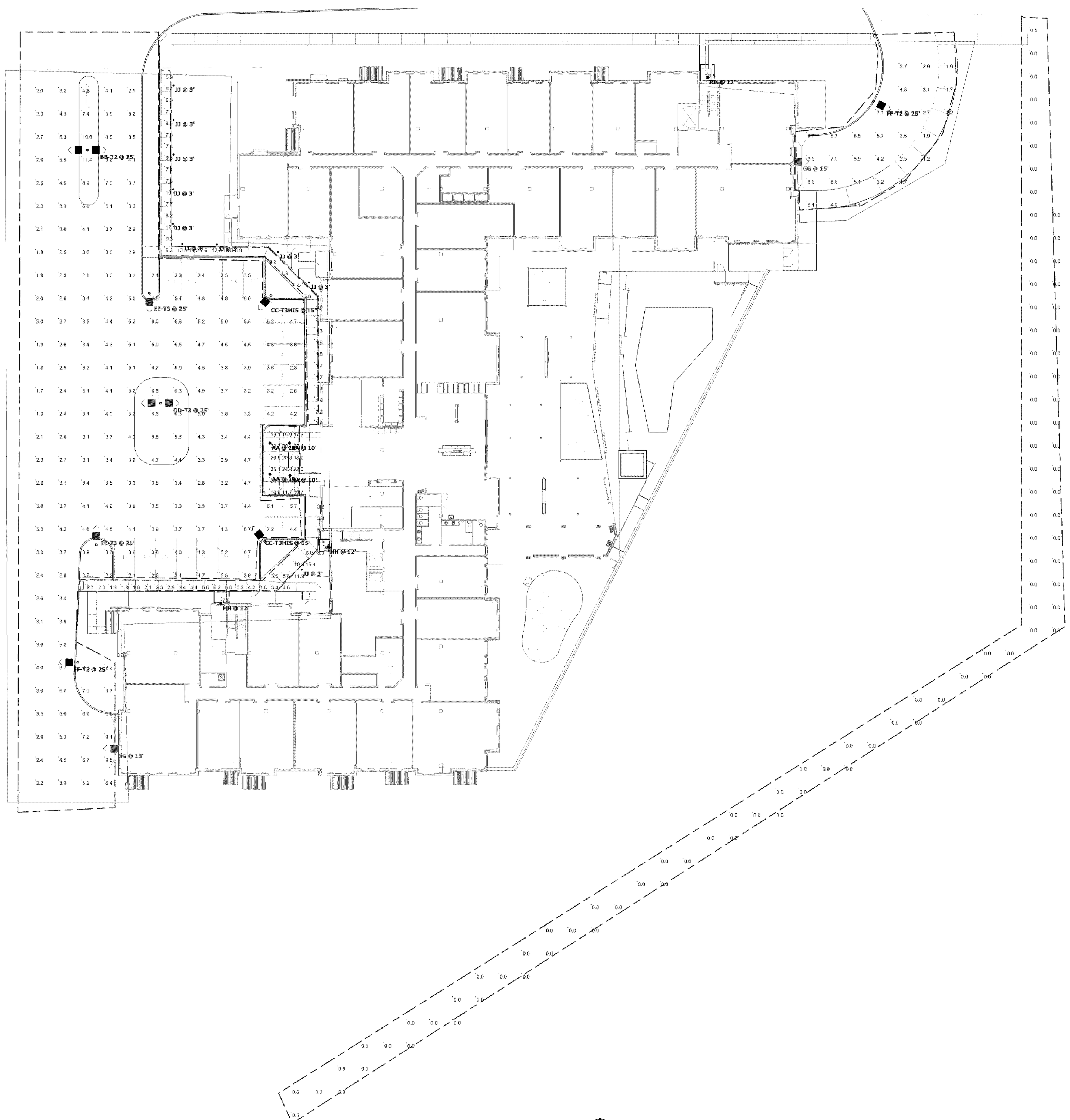
Date	03/09/20
Project Architect	Checker
Principal in Charge	Designer
Project Number	19020

FDP LIGHTING PLAN - UPPER GARAGE MAINTAINED

A4.4-F

PL202000083 PL2020-83



Plan View
Scale - 1" = 25ft

Statistics

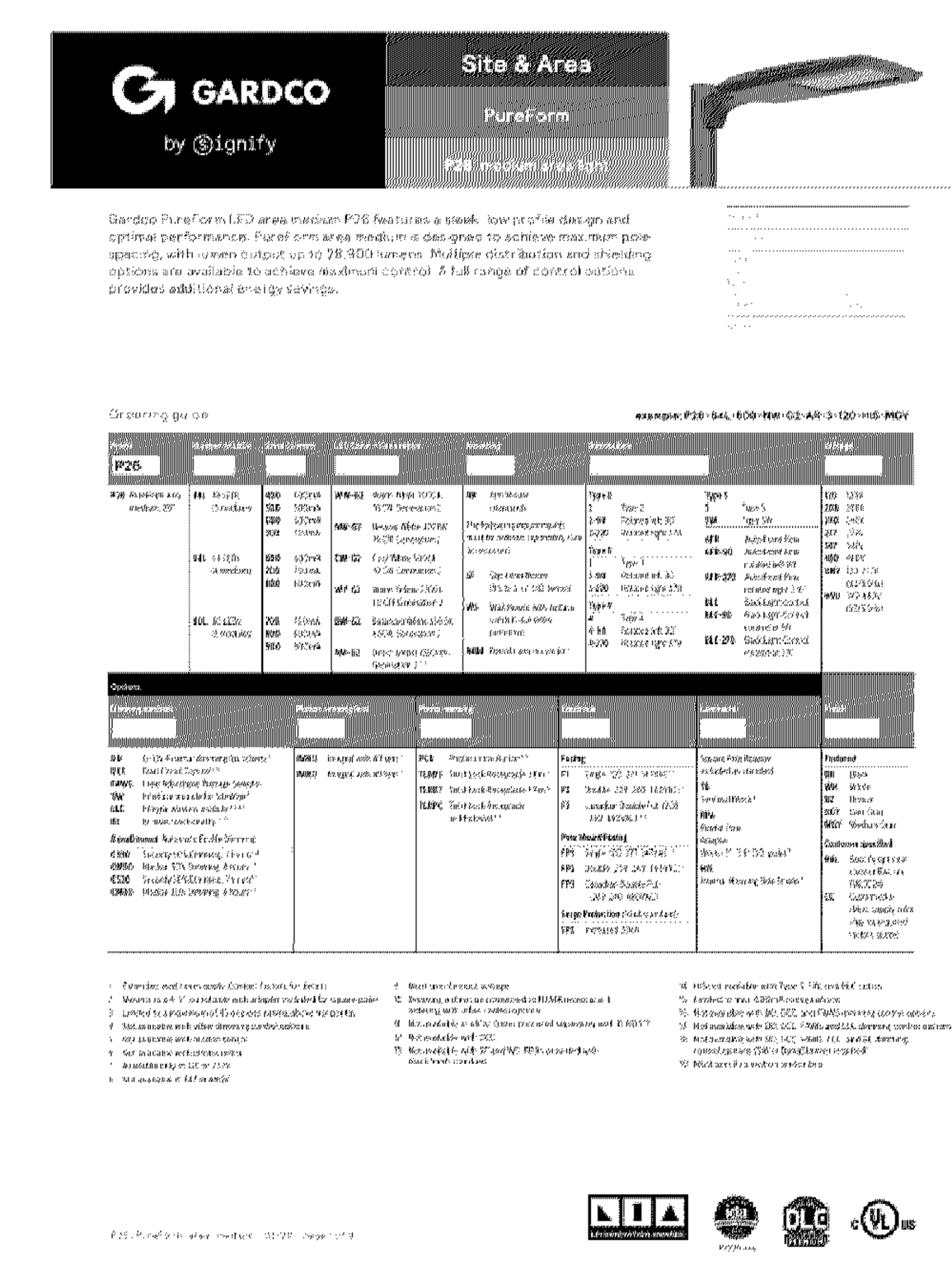
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Main Drive and Parking	+	4.2 fc	11.4 fc	1.7 fc	6.7:1	2.5:1
NE Sidewalk Entrance	+	6.5 fc	6.5 fc	6.5 fc	1.0:1	1.0:1
Parking Gargae Entrance	+	4.5 fc	9.6 fc	1.2 fc	8.0:1	3.8:1
Primary Entrance	+	21.5 fc	30.7 fc	10.7 fc	2.9:1	2.0:1
Property Line	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
Secondary Entrance	+	7.0 fc	7.0 fc	7.0 fc	1.0:1	1.0:1
Secondary Entrance	+	7.4 fc	7.4 fc	7.4 fc	1.0:1	1.0:1
Sidewalk	+	5.1 fc	15.4 fc	1.8 fc	8.6:1	2.8:1
Sidewalk	+	6.4 fc	13.3 fc	0.8 fc	16.6:1	8.0:1

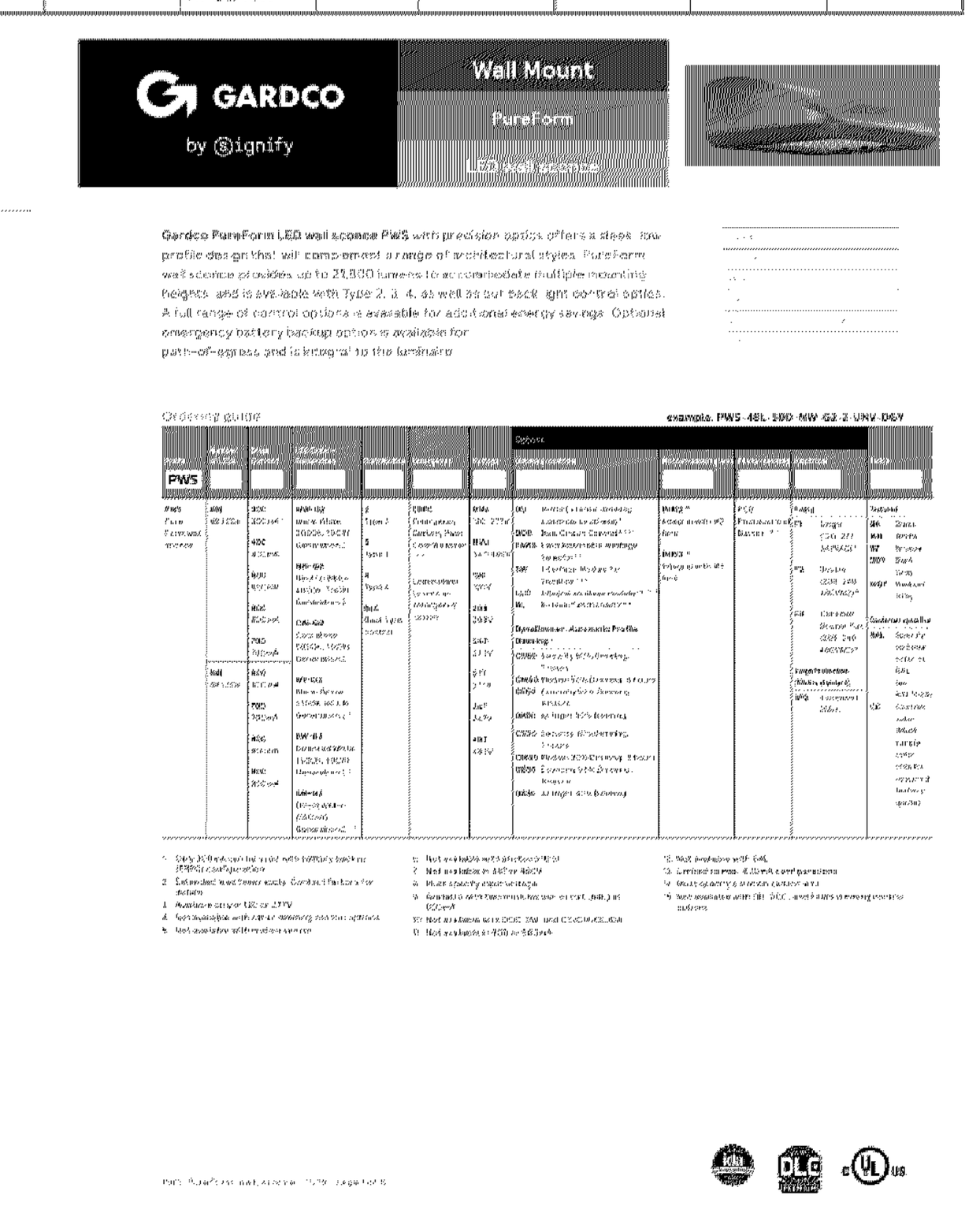
Power Statistics

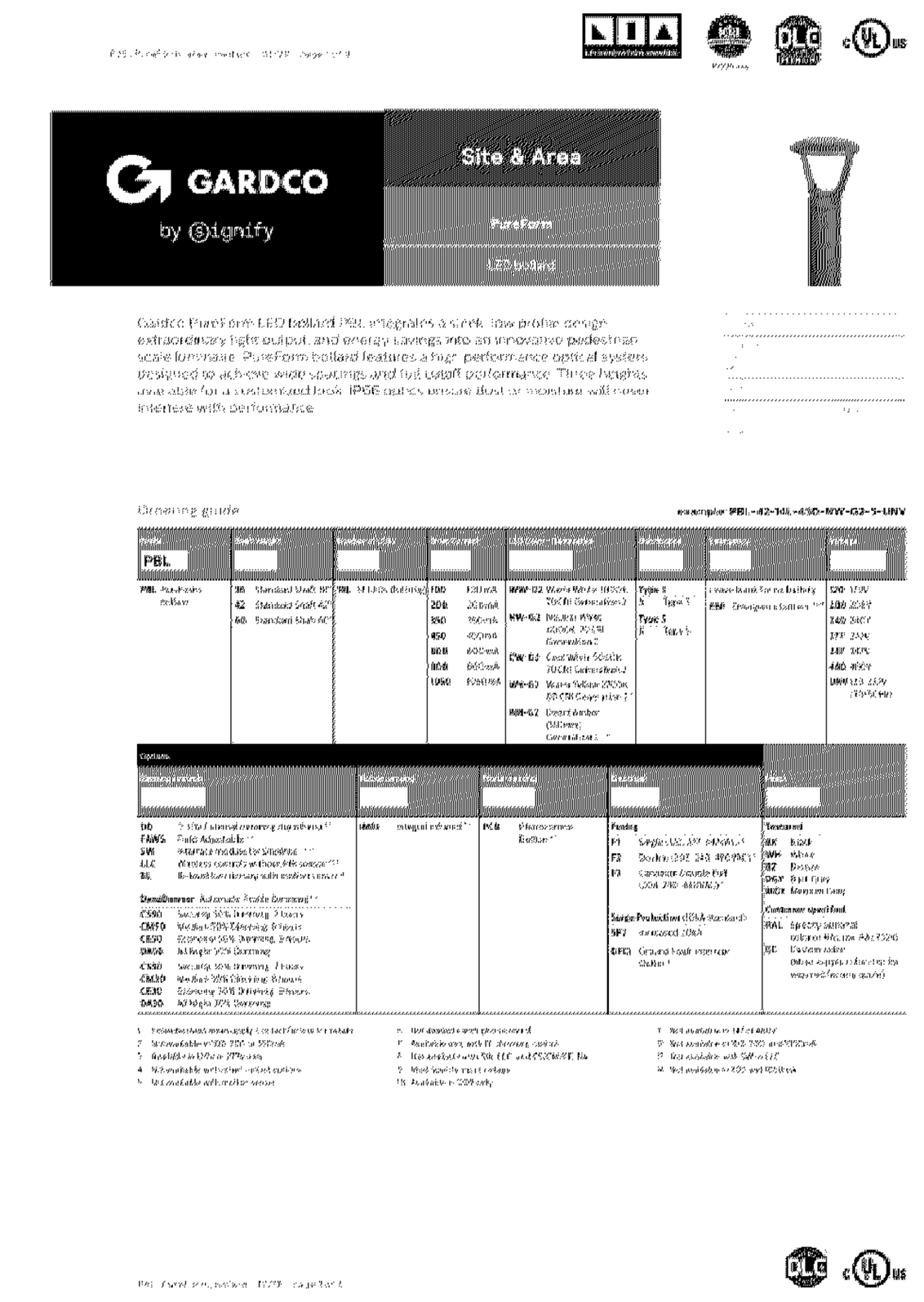
Description	# Luminaires	Total Watts	Area	Density
Power Density Zone # 1	24	1324.3 W	34121.6 ft²	0.0 W/ft²
Power Density Zone # 2	3	252.8 W	5685.0 ft²	0.0 W/ft²

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	AA	4	SIGNIFY LIGHTING - LIGHTOLIER	P6RLW30835 CLPZ10U	LYTEPROFILE 6 INCH ROUND		1	P6RLW30835 CLPZ10U.ies	3174	1	30.3
	BB-T2	1	SIGNIFY GARDCO	P26-48L-700--NW-G2-2	PureForm Gen2 - Area Medium (P26), 48 LED's, 4000K CCT, TYPE 2 OPTIC, .	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 700mA	1	PureForm_Arm_Mount_Medium_Precision_optics_48_LEDs_700mA_100W_Neutral_White_Type_2.ies	14303	1	202.0948
	CC-T3HIS	2	SIGNIFY GARDCO	P26-48L-400--NW-G2-3-HIS	PureForm Gen2 - Area Medium (P26), 48 LED's, 4000K CCT, TYPE 3-HIS OPTIC, House-side Internal Shielding	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 400mA	1	P26s_48_LEDs_400mA_60W_Neutral_White_Type_3_with_House_Side_Shield.ies	6904	1	60.07694
	DD-T3	1	SIGNIFY GARDCO	P26-48L-700--NW-G2-3	PureForm Gen2 - Area Medium (P26), 48 LED's, 4000K CCT, TYPE 3 OPTIC, .	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 700mA	1	PureForm_Arm_Mount_Medium_Precision_optics_48_LEDs_700mA_100W_Neutral_White_Type_3.ies	13834	1	202.0948
	EE-T3	2	SIGNIFY GARDCO	P26-48L-700--NW-G2-3	PureForm Gen2 - Area Medium (P26), 48 LED's, 4000K CCT, TYPE 3 OPTIC, .	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 700mA	1	PureForm_Arm_Mount_Medium_Precision_optics_48_LEDs_700mA_100W_Neutral_White_Type_3.ies	13834	1	101.0474
	FF-T2	2	SIGNIFY GARDCO	P26-48L-700--NW-G2-2	PureForm Gen2 - Area Medium (P26), 48 LED's, 4000K CCT, TYPE 2 OPTIC, .	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 700mA	1	PureForm_Arm_Mount_Medium_Precision_optics_48_LEDs_700mA_100W_Neutral_White_Type_2.ies	14303	1	101.0474
	GG	2	SIGNIFY GARDCO	PWS-48L-700-NW-G2-3	Pureform LDGN Sconce (PWS), 48 LED's, 4000K CCT, TYPE 3 OPTIC,	(3) LED ARRAY(S) DRIVEN AT 700mA	1	PureForm_Wall_Sconce_Precision_optics_48_LEDs_700mA_105W_Neutral_White_Type_3.ies	13504	1	105
	HH	3	PHILIPS GARDCO	PWS-48L-300-NW-G2-3	Pureform LDGN Sconce (PWS), 42 LED's, 4000K CCT, TYPE 3 OPTIC,	(3) LED ARRAY(S) DRIVEN AT 300mA	1	PureForm_Wall_Sconce_Precision_optics_48_LEDs_300mA_50W_Neutral_White_Type_3.ies	6036	1	46.8
	JJ	10	SIGNIFY Gardco	PBL-14L-350--NW-G2-5-UNV	Pureform Gen2 - PBL Bollard	443561270940 - PCB LGT ENG BR84x 7 XPG2 NW	1	pbl-14l-350-nw-g2-5-unv.ies	1758	1	17.7







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AMERICAN SQUARE

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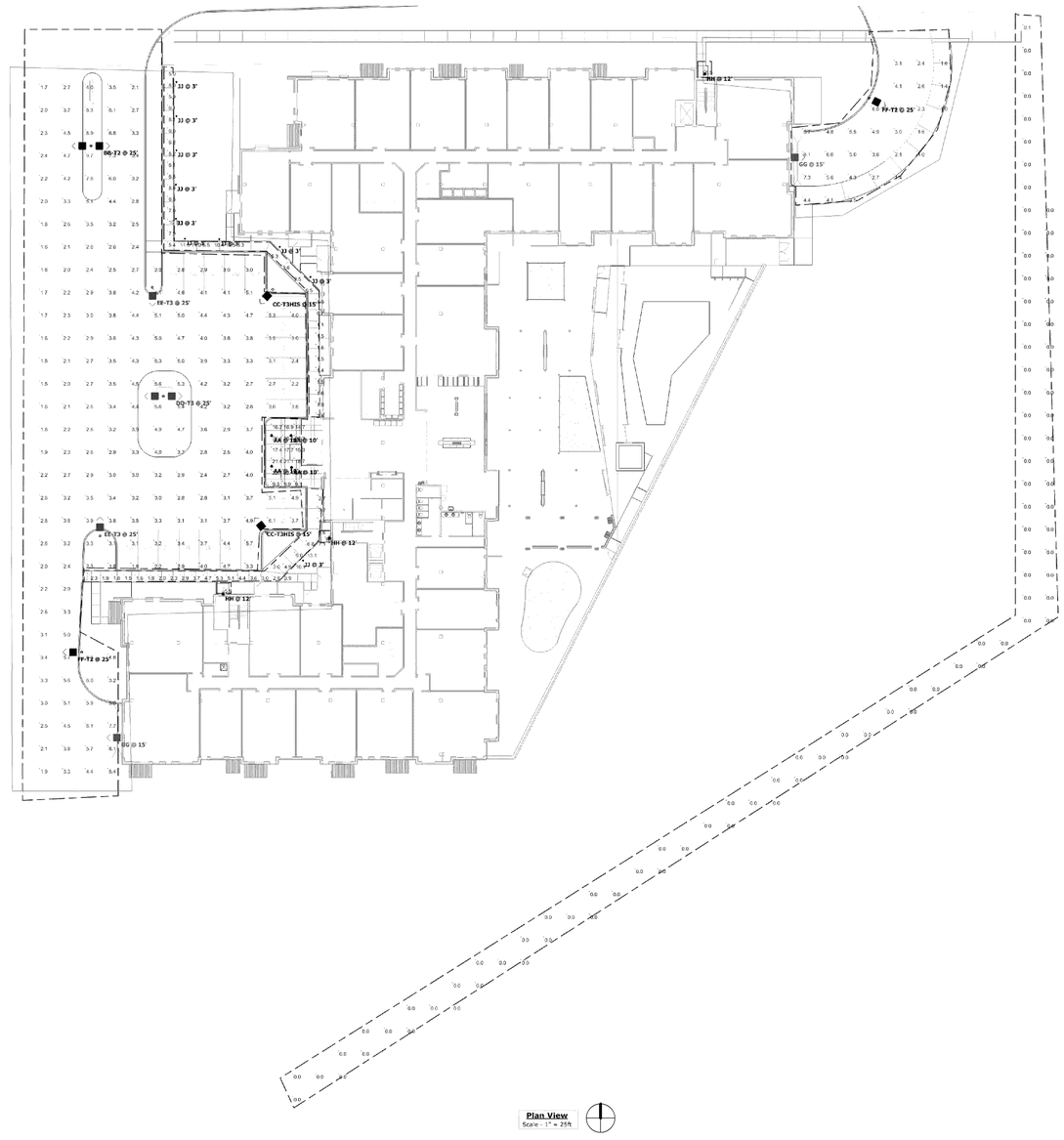
Principal in Charge	JBW
Project Number	19020

FDP SITE LIGHTING PLAN INITIAL

A5.1-F

PL202000083 PL2020-83



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Main Drive and Parking	+	3.6 fc	9.7 fc	1.5 fc	6.5:1	2.4:1
NE /Sidewalk Entrance	+	5.5 fc	5.5 fc	5.5 fc	1.0:1	1.0:1
Parking Garage Entrance	+	3.8 fc	8.1 fc	1.0 fc	8.1:1	3.8:1
Primary Entrance	+	18.3 fc	26.1 fc	9.1 fc	2.9:1	2.0:1
Property Line	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
Secondary Entrance	+	5.9 fc	5.9 fc	5.9 fc	1.0:1	1.0:1
Secondary Entrance	+	6.3 fc	6.3 fc	6.3 fc	1.0:1	1.0:1
Sidewalk	+	4.3 fc	13.1 fc	1.5 fc	8.7:1	2.9:1
Sidewalk	+	5.4 fc	11.3 fc	0.7 fc	16.1:1	7.7:1

Power Statistics				
Description	# Luminaires	Total Watts	Area	Density
Power Density Zone # 1	24	1324.3 W	34121.6 ft²	0.0 W/ft²
Power Density Zone # 2	3	252.8 W	5685.9 ft²	0.0 W/ft²

Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
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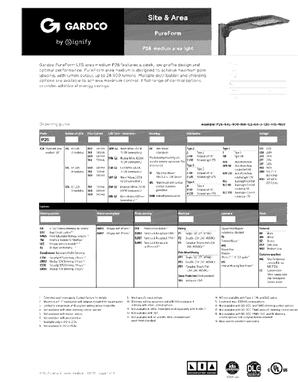
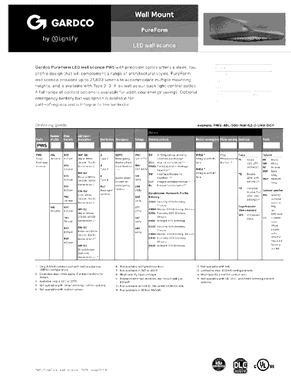
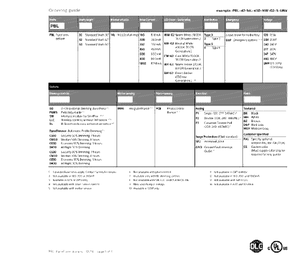
▭	BB-T2	1	SIGNIFY GARDCO	P26-48L-700-NW-G2-2	PureForm Gen2 - Area Medium (P26), 48 LED's, 4000K CCT, TYPE 2 OPTIC, .	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 700mA	1	PureForm_Arm_Mount_Medium_Precision_optics_48_LEDs_700mA_100W_Neutral_White_Type_2.ies	14303	0.85	202.0948
▭	CC-T3HIS	2	SIGNIFY GARDCO	P26-48L-400-NW-G2-3-HIS	PureForm Gen2 - Area Medium (P26), 48 LED's, 4000K CCT, TYPE 3-HIS OPTIC, House-side Internal Shielding	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 400mA	1	P26L_48_LEDs_400mA_60W_Neutral_White_Type_3_with_House_Side_Shields.ies	6904	0.85	60.07694
▭	DD-T3	1	SIGNIFY GARDCO	P26-48L-700-NW-G2-3	PureForm Gen2 - Area Medium (P26), 48 LEDs, 4000K CCT, TYPE 3 OPTIC, .	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 700mA	1	PureForm_Arm_Mount_Medium_Precision_optics_48_LEDs_700mA_100W_Neutral_White_Type_3.ies	13834	0.85	202.0948
▭	EE-T3	2	SIGNIFY GARDCO	P26-48L-700-NW-G2-3	PureForm Gen2 - Area Medium (P26), 48 LEDs, 4000K CCT, TYPE 3 OPTIC, .	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 700mA	1	PureForm_Arm_Mount_Medium_Precision_optics_48_LEDs_700mA_100W_Neutral_White_Type_3.ies	13834	0.85	101.0474
▭	FF-T2	2	SIGNIFY GARDCO	P26-48L-700-NW-G2-2	PureForm Gen2 - Area Medium (P26), 48 LEDs, 4000K CCT, TYPE 2 OPTIC, .	(3) LEDGINE LIGHT ARRAY(S) DRIVEN AT 700mA	1	PureForm_Arm_Mount_Medium_Precision_optics_48_LEDs_700mA_100W_Neutral_White_Type_2.ies	14303	0.85	101.0474
▭	GG	2	SIGNIFY GARDCO	PWS-48L-700-NW-G2-3	Pureform LDGN Sconce (PWS), 48 LED's, 4000K CCT, TYPE 3 OPTIC,	(3) LED ARRAY(S) DRIVEN AT 700mA	1	PureForm_Wall_Sconce_Precision_optics_48_LEDs_700mA_105W_Neutral_White_Type_3.ies	13504	0.85	105
▭	HH	3	PHILIPS GARDCO	PWS-48L-300-NW-G2-3	Pureform LDGN Sconce (PWS), 42 LED's, 4000K CCT, TYPE 3 OPTIC,	(3) LED ARRAY(S) DRIVEN AT 300mA	1	PureForm_Wall_Sconce_Precision_optics_48_LEDs_300mA_50W_Neutral_WNre_Type_3.ies	6035	0.85	46.8
◯	JJ	10	SIGNIFY Gardco	PBL-14L-350-nw-g2-5-unv-ies	Pureform Gen2 - PBL Bollard	44356127094 0 - PCB LGT ENG BR34x 7 XPG2 NW	1	pbl-14l-350-nw-g2-5-unv-ies	1758	0.85	17.7







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FDP SITE LIGHTING PLAN MAINTAINED

A5.2-F