

CITY OF BLOOMINGTON MINNESOTA

LIGHTING PLAN

APPROVED

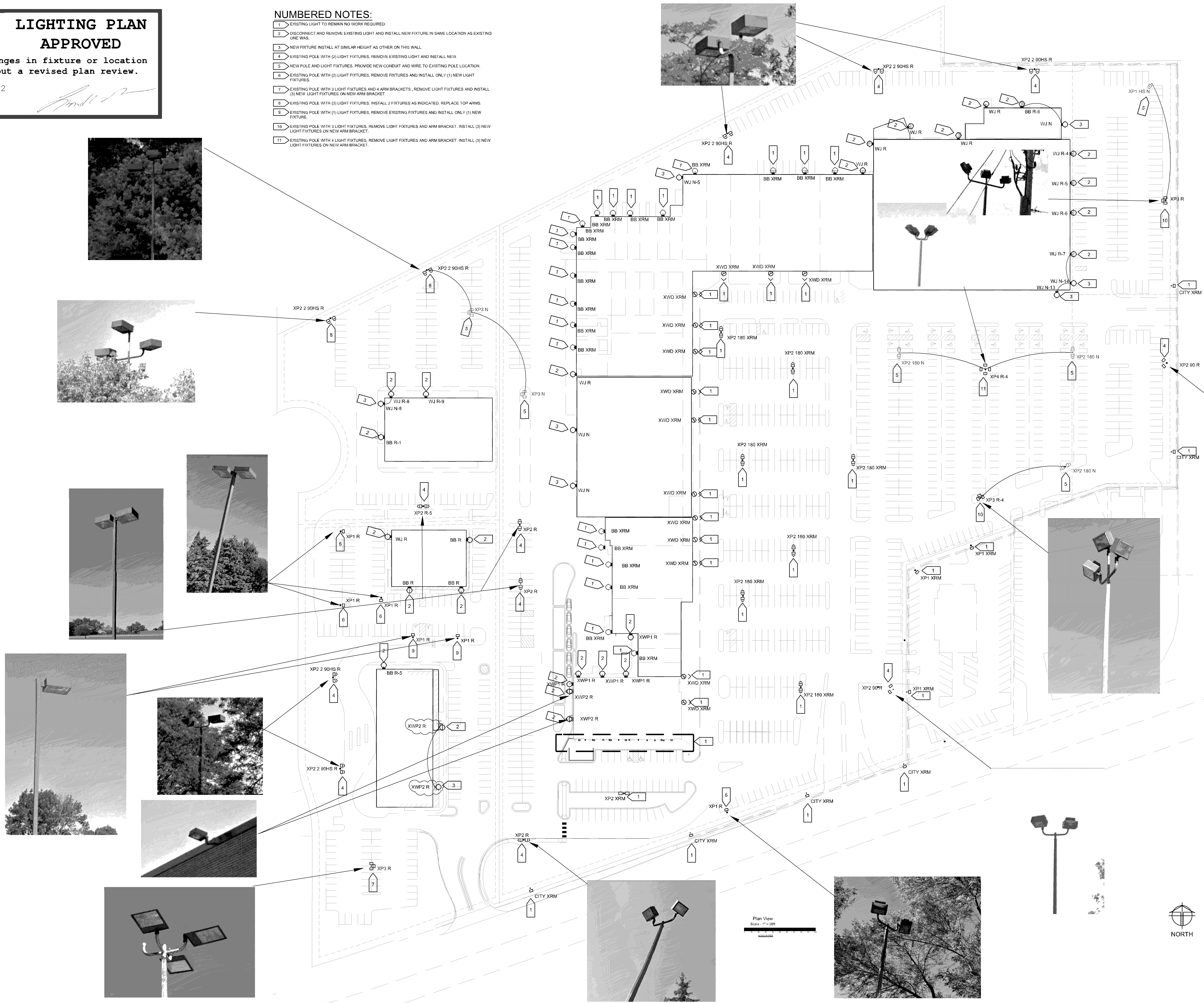
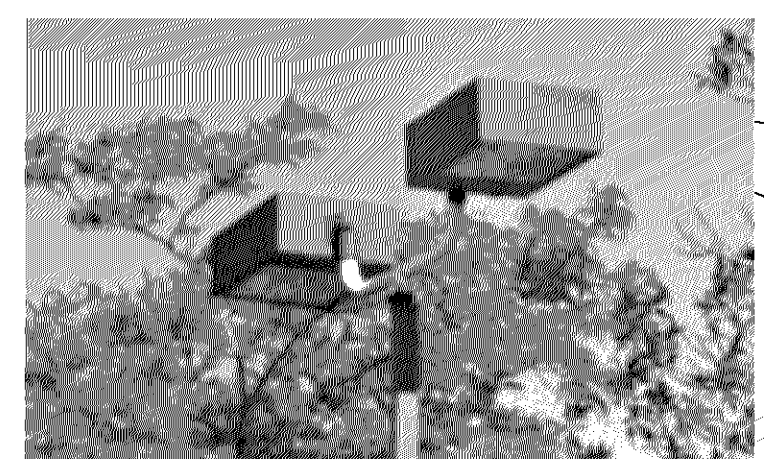
No changes in fixture or location
without a revised plan review.

12/15/2022
lplease

[Signature]

NUMBERED NOTES:

1. EXISTING LIGHT TO REMAIN NO WORK REQUIRED.
2. DISCONNECT AND REMOVE EXISTING LIGHT AND INSTALL NEW FIXTURE IN SAME LOCATION AS EXISTING ONE WAS.
3. NEW FIXTURE INSTALL AT SIMILAR HEIGHT AS OTHER ON THIS WALL.
4. EXISTING POLE WITH (2) LIGHT FIXTURES. REMOVE EXISTING LIGHT AND INSTALL NEW.
5. NEW POLE TO BE INSTALLED. PROVIDE NEW CONDUIT AND WIRE TO EXISTING POLE LOCATION.
6. EXISTING POLE WITH (2) LIGHT FIXTURES. REMOVE EXISTING FIXTURES AND INSTALL ONLY (1) NEW LIGHT FIXTURES.
7. EXISTING POLE WITH (3) LIGHT FIXTURES AND 4 ARM BRACKETS. REMOVE EXISTING FIXTURES AND INSTALL (3) NEW LIGHT FIXTURES ON NEW ARM BRACKET.
8. EXISTING POLE WITH (5) LIGHT FIXTURES. INSTALL 2 FIXTURES AS INDICATED. REPLACE TOP ARMS.
9. EXISTING POLE WITH (1) LIGHT FIXTURE. REMOVE EXISTING FIXTURES AND INSTALL ONLY (1) NEW LIGHT FIXTURES ON NEW ARM BRACKET.
10. EXISTING POLE WITH (3) LIGHT FIXTURES. REMOVE LIGHT FIXTURES AND ARM BRACKET. INSTALL (3) NEW LIGHT FIXTURES ON NEW ARM BRACKET.
11. EXISTING POLE WITH (4) LIGHT FIXTURES. REMOVE LIGHT FIXTURES AND ARM BRACKET. INSTALL (3) NEW LIGHT FIXTURES ON NEW ARM BRACKET.



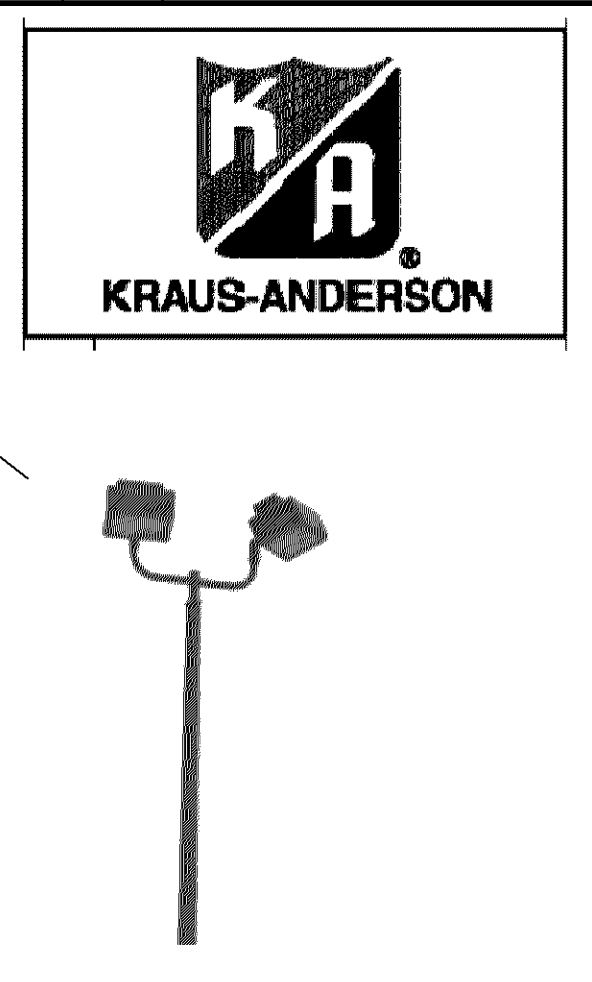
Collins
ELECTRICAL + TECHNOLOGY
Collins Electrical Construction Co.
278 State Street
St. Paul, Minnesota 55107-1679
Telephone (651) 224-2833
Fax (651) 292-0359
www.collinsmn.com

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

DATE: 4-22-22 REG. #: 25509

SIGNED: David S. Hove
DAVID S. HOVE

DRAWN BY: K. KUEHN
CHECKED BY: M. KEYS
DATE: 4-8-22
JOB NUMBER:
FILE NAME:

[illegible]

VALLEY WEST SHOPPING CENTER
SITE RELIGHTING
FRANCE AVENUE S & W OLD SHAKOPEE
BLOOMINGTON MN

PHOTOMETRIC PLAN
MAINTAINED
LEVEL AT 0.81

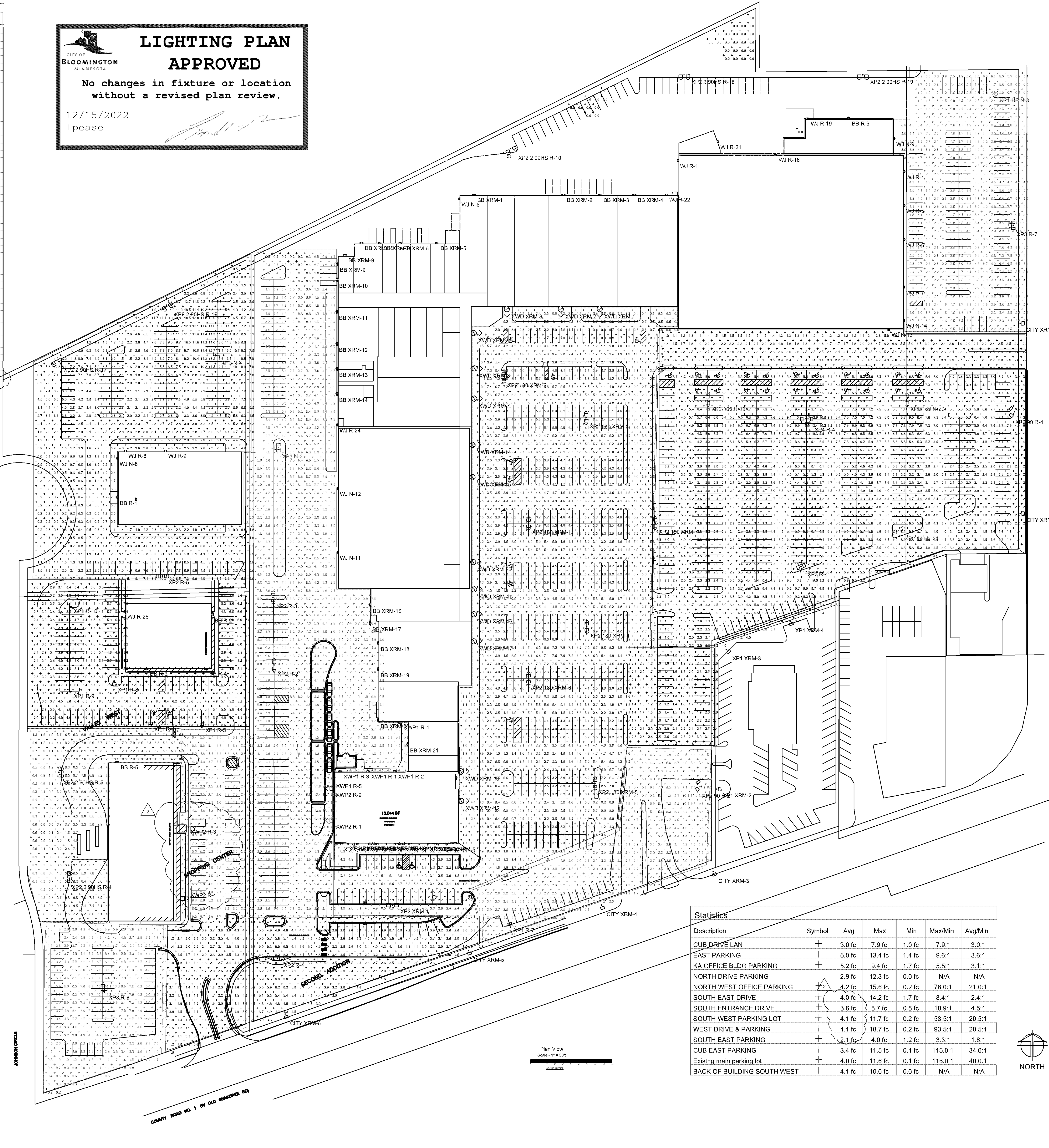
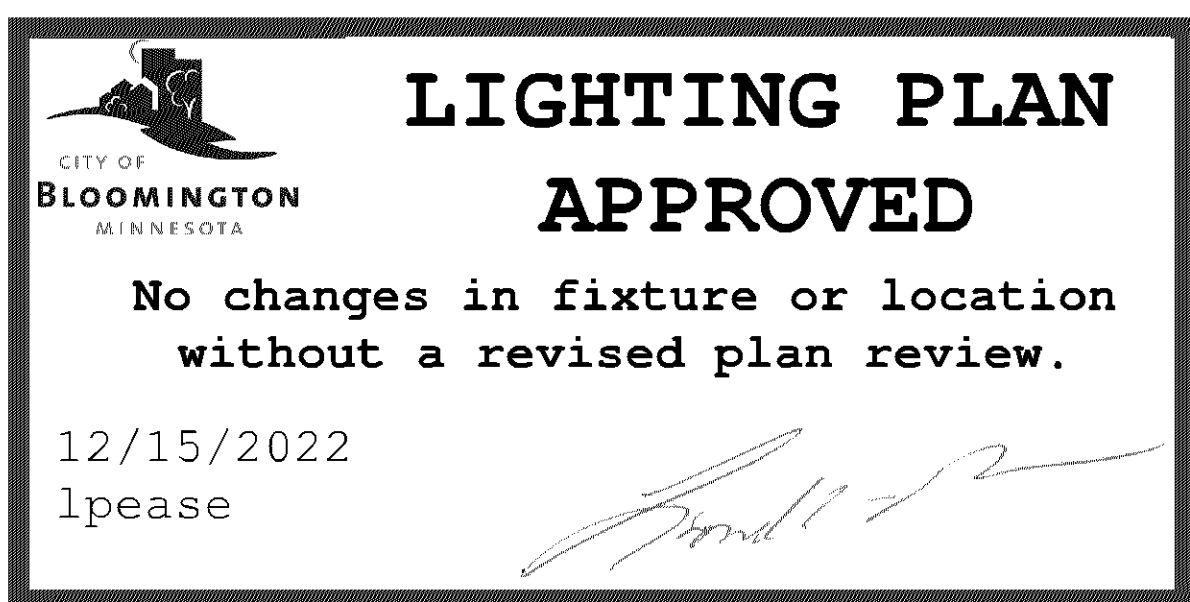
SCALE: 1"=50'-0"

E050

Project: Project/Vally View Shopping Center site lighting-MO Directly468468.dwg, 12/19/2022 9:32:11 AM, Dwg To Pdf.pcl
 Author:

Luminaire Locations		Location			
19	XP2 180 N	42800.24	3462.90	23.00	20.00
	XP2 180 N.1	42800.24	3466.65	23.00	20.00
	XP2 180 N.2	42800.24	3473.15	23.00	20.00
20	XP2 180 N	43644.48	3463.19	24.00	24.00
	XP2 180 N.1	43644.48	3466.94	24.00	24.00
	XP2 180 N.2	43644.48	3473.44	24.00	24.00
5	XP2 180 XSM	42590.06	3140.85	23.00	5.00
	XP2 180 XSM.1	42590.06	3144.60	23.00	5.00
	XP2 180 XSM.2	42590.06	3157.10	23.00	20.00
2	XP2 R	42267.81	3157.83	25.00	25.00
	XP2 R.1	42267.81	3154.09	25.00	25.00
	XP2 R.2	42267.81	3161.58	25.00	25.00
3	XP2 R	42266.53	3040.71	24.00	24.00
	XP2 R.1	42266.53	3036.96	24.00	180.00
	XP2 R.2	42266.53	3044.46	24.00	24.00
2	XP3 N	42273.50	3424.52	33.00	33.00
	XP3 N.1	42273.50	3420.77	33.00	33.00
	XP3 N.2	42266.75	3424.52	33.00	33.00
2	XP3 N	42273.50	3428.27	33.00	33.00
	XP3 N.1	42198.96	3533.08	28.00	28.00
	XP3 N.2	42198.96	3535.83	28.00	180.00
	XP3 N.2	42195.21	3533.08	28.00	270.00
	XP3 N.3	42198.96	3543.43	28.00	28.00
7	XP3 R	43174.92	3697.51	23.00	20.00
	XP3 R.1	43174.92	3693.55	23.00	170.28
	XP3 R.2	43171.17	3697.26	23.00	269.28
	XP3 R.3	43174.96	3701.05	23.00	356.28
21	XP2 180 N	42633.94	3123.05	23.00	33.38
	XP2 180 N.1	42637.68	3124.73	23.00	63.38
	XP2 180 N.2	42630.59	3131.37	23.00	243.38
4	XP2 R	42272.33	3577.31	23.00	269.85
	XP2 R.1	42268.56	3577.30	23.00	269.85
	XP2 R.2	42272.06	3579.52	23.00	69.85
5	XP2 R	42130.84	3057.05	24.00	90.00
	XP2 R.1	42134.59	3057.06	24.00	90.00
	XP2 R.2	42127.09	3057.06	24.00	270.00
14	WU N	33640.80	4581.13	12.00	90.00
	XP2 180 XSM	42735.65	3332.12	23.00	5.00
	XP2 180 XSM.1	42735.65	3332.37	23.00	20.00
	XP2 180 XSM.2	42735.65	3332.37	23.00	180.00
5	XWMP R	42341.98	3016.75	16.00	14.00
	XWMP R.1	42341.69	3027.48	35.00	270.00
	XWMP R.2	42341.69	3029.68	35.00	270.00
2	XWMP R	42144.54	3596.04	40.00	90.00
4	XWMP R	42144.57	3597.19	40.00	90.00
2					

Luminaire Locations		Location			
19	XP2 180 N	42800.24	3462.90	23.00	20.00
	XP2 180 N.1	42800.24	3466.65	23.00	20.00
	XP2 180 N.2	42800.24	3473.15	23.00	20.00
20	XP2 180 N	43644.48	3463.19	24.00	24.00
	XP2 180 N.1	43644.48	3466.94	24.00	24.00
	XP2 180 N.2	43644.48	3473.44	24.00	24.00
5	XP2 180 XSM	42590.06	3140.85	23.00	5.00
	XP2 180 XSM.1	42590.06	3144.60	23.00	5.00
	XP2 180 XSM.2	42590.06	3137.10	23.00	20.00
2	XP2 R	42267.81	3157.83	25.00	25.00
	XP2 R.1	42267.81	3154.08	25.00	25.00
	XP2 R.2	42267.81	3161.58	25.00	25.00
3	XP2 R	42266.53	3040.71	24.00	24.00
	XP2 R.1	42266.53	3036.96	24.00	180.00
	XP2 R.2	42266.53	3044.46	24.00	24.00
2	XP3 N	42273.50	3424.52	33.00	33.00
	XP3 N.1	42273.50	3420.77	33.00	33.00
	XP3 N.2	42266.75	3434.52	33.00	33.00
2	XP3 N	42273.50	3428.27	33.00	33.00
	XP3 N.1	42198.96	3533.08	28.00	28.00
	XP3 N.2	42198.96	3535.83	28.00	180.00
	XP3 N.2	42195.21	3533.08	28.00	270.00
	XP3 N.3	42198.96	3543.43	28.00	28.00
7	XP3 R	43174.92	3697.51	23.00	20.00
	XP3 R.1	43174.92	3693.55	23.00	170.28
	XP3 R.2	43171.17	3697.26	23.00	269.28
	XP3 R.3	43174.96	3701.05	23.00	356.28
21	XP2 180 N	43633.94	3423.05	23.00	33.38
	XP2 180 N.1	43637.69	3424.73	23.00	63.38
	XP2 180 N.2	43630.59	3431.37	23.00	243.38
4	XP2 R	42272.33	3577.31	23.00	269.85
	XP2 R.1	42268.56	3577.30	23.00	269.85
	XP2 R.2	42272.06	3579.52	23.00	69.85
5	XP2 R	42130.84	3057.05	24.00	90.00
	XP2 R.1	42134.59	3057.06	24.00	90.00
	XP2 R.2	42127.09	3057.06	24.00	270.00
14	WU N	33640.80	4581.13	12.00	90.00
	XP2 180 XSM	42735.65	3332.12	23.00	5.00
	XP2 180 XSM.1	42735.65	3332.37	23.00	20.00
	XP2 180 XSM.2	42735.65	3328.37	23.00	180.00
5	XWP2 R	42341.98	3601.75	16.00	14.00
1	XWP2 R.1	42341.98	3607.48	35.00	270.00
2	XWP2 R.2	42341.98	3609.68	35.00	270.00
3	XWP2 R.3	42144.54	3666.04	40.00	90.00
4	XWP2 R.4	42144.57	3671.97	40.00	90.00
2					



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CUB DRIVE LAN	+	3.0 fc	7.9 fc	1.0 fc	7.9:1	3.0:1
EAST PARKING	+	5.0 fc	13.4 fc	1.4 fc	9.6:1	3.6:1
KA OFFICE BLDG PARKING	+	5.2 fc	9.4 fc	1.7 fc	5.5:1	3.1:1
NORTH DRIVE PARKING	+	2.9 fc	12.3 fc	0.0 fc	N/A	N/A
NORTH WEST OFFICE PARKING	+	4.2 fc	15.6 fc	0.2 fc	78.0:1	21.0:1
SOUTH EAST DRIVE	+	4.0 fc	14.2 fc	1.7 fc	8.4:1	2.4:1
SOUTH ENTRANCE DRIVE	+	3.6 fc	8.7 fc	0.8 fc	10.9:1	4.5:1
SOUTH WEST PARKING LOT	+	4.1 fc	11.7 fc	0.2 fc	58.5:1	20.5:1
WEST DRIVE & PARKING	+	4.1 fc	18.7 fc	0.2 fc	93.5:1	20.5:1
SOUTH EAST PARKING	+	2.1 fc	4.0 fc	1.2 fc	3.3:1	1.8:1
CUB EAST PARKING	+	3.4 fc	11.5 fc	0.1 fc	115.0:1	34.0:1
Existing main parking lot	+	4.0 fc	11.6 fc	0.1 fc	116.0:1	40.0:1
BACK OF BUILDING SOUTH WEST	+	4.1 fc	10.0 fc	0.0 fc	N/A	N/A

VALLEY WEST SHOPPING CENTER
SITE RELIGHTING
FRANCE AVENUE S & W OLD SHAKOPEE
BLOOMINGTON MINN



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

DATE: 4-22-22 REG. NO.: 25909

SIGNED: *David S. Hove*

DAVID S. HOVE

DRAWN BY: K. KUEHN
CHECKED BY: M. KEYS
DATE: 4-8-22
JOB NUMBER:
FILE NAME:

REVISIONS		
#	DATE	
1	4-22-22	PERMIT SET
2	12-14-22	PROGRESS SET

PHOTOMETRIC PLAN
100 %

SCALE: 1"=50'-0"

E060

Make SAFETY a part of every plan

Luminaire Locations							
No.	Label	X	Y	Z	NAI	Orientation	TM
1	WJ R	42793.92	8777.07	12.00	12.00	270.00	0.00
4	WJ R	43060.71	8784.51	10.00	10.00	0.00	0.00
5	WJ R	43040.71	8752.09	10.00	10.00	0.00	0.00
6	WJ R	43040.71	8686.15	10.00	10.00	0.00	0.00
7	WJ R	43040.71	8621.83	10.00	10.00	0.00	0.00
8	WJ R	42985.53	8425.14	10.00	10.00	0.00	0.00
9	WJ R	42134.53	8425.09	10.00	10.00	0.00	0.00
4	XP2 2 80HS R	42014.30	8897.53	20.00	20.00	0.00	0.00
5	XP2 2 80HS R	42003.64	9020.00	20.00	20.00	0.00	0.00
10	XP2 2 80HS R	42558.05	8791.75	20.00	20.00	151.98	0.00
2	XP2 30 R	42791.97	9009.21	20.00	20.00	233.11	0.00
4	XP2 30 R	43176.72	8458.00	20.00	20.00	222.54	0.00
4	XP1 R	42115.35	9032.48	20.00	20.00	0.00	0.00
5	XP1 R	42179.16	8981.22	20.00	20.00	0.00	0.00
4	XP3 R	42914.50	8278.75	20.00	20.00	248.11	0.00
4	XP1 R	42981.82	8458.71	30.00	30.00	0.00	0.00
2	XP1 XRM	42811.21	8000.52	20.00	20.00	0.00	0.00
1	XP2 XRM	42113.11	8852.78	30.00	30.00	0.00	0.00
1	XP2 XRM-1	42447.97	8892.78	30.00	30.00	0.00	0.00
10	XP2 XRM-2	42445.25	8892.78	30.00	30.00	0.00	0.00
1	XD XRM	42350.29	8836.03	9.50	9.50	180.00	0.00
2	XD XRM	42370.88	8836.03	9.50	9.50	180.00	0.00
3	XD XRM	42394.45	8836.03	9.50	9.50	180.00	0.00
4	XD XRM	42415.91	8836.03	9.50	9.50	180.00	0.00
5	XD XRM	42438.13	8836.03	9.50	9.50	180.00	0.00
5	XD XRM	42456.30	8836.03	9.50	9.50	180.00	0.00
1	XP XRM	42458.72	8836.12	10.00	10.00	180.00	0.00
2	XP XRM	42481.15	8836.12	10.00	10.00	180.00	0.00
3	XP XRM	42503.58	8836.12	10.00	10.00	180.00	0.00
4	XP XRM	42525.91	8836.12	10.00	10.00	180.00	0.00
5	XP XRM	42548.24	8836.12	10.00	10.00	180.00	0.00
7	XP XRM	42420.41	8836.12	10.00	10.00	180.00	0.00
7	XP XRM	42443.84	8836.12	10.00	10.00	180.00	0.00
8	XP XRM	42466.25	8836.39	10.00	10.00	180.00	0.00
9	XP XRM	42488.72	8836.50	10.00	10.00	180.00	0.00
10	XP XRM	42511.19	8836.61	10.00	10.00	180.00	0.00
1	XWD XRM	42607.45	8597.80	12.00	12.00	179.87	0.00
2	XWD XRM	42611.68	8597.80	12.00	12.00	179.87	0.00
3	XWD XRM	42615.91	8597.80	12.00	12.00	179.87	0.00
4	XWD XRM	42619.14	8597.80	12.00	12.00	179.87	0.00
7	XWD XRM	42593.51	8597.80	12.00	12.00	179.87	0.00
7	XWD XRM	42593.51	8556.20	12.00	12.00	89.82	0.00
8	XWD XRM	42593.51	8484.81	12.00	12.00	90.00	0.00
8	XWD XRM	42593.51	8421.81	12.00	12.00	90.00	0.00
9	XWD XRM	42593.51	8358.10	12.00	12.00	90.00	0.00
10	XWD XRM	42593.51	8295.37	12.00	12.00	90.00	0.00
1	XP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
1	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
2	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
3	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
4	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
5	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
6	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
7	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
8	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
9	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
10	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
11	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
12	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
13	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
14	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
15	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
16	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
17	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
18	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
19	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
20	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
21	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
22	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
23	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
24	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
25	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
26	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
27	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
28	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
29	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
30	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
31	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
32	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
33	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
34	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
35	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
36	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
37	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
38	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
39	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
40	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
41	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
42	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
43	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
44	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
45	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
46	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
47	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
48	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
49	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
50	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
51	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
52	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
53	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
54	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
55	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
56	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
57	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
58	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
59	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
60	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
61	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
62	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
63	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
64	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
65	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
66	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
67	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
68	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
69	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
70	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
71	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
72	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
73	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
74	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
75	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
76	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
77	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
78	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
79	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
80	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
81	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
82	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
83	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
84	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
85	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
86	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
87	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
88	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
89	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
90	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
91	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
92	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
93	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
94	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
95	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
96	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
97	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
98	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.00
99	XWP1 R	42341.88	9016.78	14.00	14.00	270.00	0.0

The stamp is a rectangular document with a black border. In the top left corner is the City of Bloomington logo, which features a silhouette of a person on a horse. To the right of the logo, the text 'CITY OF' is above 'BLOOMINGTON', which is above 'MINNESOTA'. In the center, the words 'LIGHTING PLAN' are at the top, followed by 'APPROVED' in a larger, bold font. Below this, the text 'No changes in fixture or location' is followed by 'without a revised plan review.' In the bottom left corner, the date '12/15/2022' is above the word 'please'. A large, handwritten signature in cursive is written across the bottom right portion of the stamp.

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Lume Cost	Lumens Per Lamp	Voltage	Wattage	Notes
	XP1 HS N		1	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	GLEON-SAG-1454-L-THPT-HSG-62 NEW 30 SQUARE POLE	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD	4050	313	120V/277	330	
	XP1 R		5	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	GLEON-SAG-1454-L-300002	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV VIBE OPTICS	4050	464	120V/277	333	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING POLE
	XP2 180 N		3	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	G1 GLEON-SAG-1454-L-300002 NEW 30 SQUARE POLE 2 @ 180DEG	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV VIBE OPTICS	4050	464	120V/277	360	
	XP2 2 90H S R		7	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	G1 GLEON-SAG-1454-L-THPT-HSG-62 NEW MOUNTING ARM 2 @ 90 DEG ON EXIST SQUARE POLE	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD	4050	313	120V/277	360	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING POLE
	XP2 90 R		2	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	G1 GLEON-SAG-1454-L-THPT-HSG-62 NEW MOUNTING ARM 2 @ 90 DEG ON EXIST SQUARE POLE	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD	4050	313	120V/277	360	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING POLE
	XP3 R		3	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	G1 GLEON-SAG-1454-L-300002-OMEGA EXIST 02 SQUARE POLE	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV VIBE OPTICS	4050	464	120V/277	360	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING POLE
	XP4 R		1	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	G1 GLEON-SAG-1454-L-300002-OMEGA 4 @ 90 DEG ON EXIST SQUARE POLE	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV VIBE OPTICS	4050	464	120V/277	333	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING POLE
	WJ N		7	Lithonia Lighting	DSXW4 LED 20C 100W 48K TFM MVOLT DB200	DSXW4 LED WITH 2 LIGHT ENGINES, 10 100W, 1050MA OVERDR, 4000K LED, TYPE FORWARD THROW MEDIUM OPTIC	4050	7530	120V/277	73	
	WJ R		13	Lithonia Lighting	DSXW4 LED 20C 100W 48K TFM MVOLT DB200	DSXW4 LED WITH 2 LIGHT ENGINES, 10 100W, 1050MA OVERDR, 4000K LED, TYPE FORWARD THROW MEDIUM OPTIC	4050	7530	120V/277	73	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING WALL
	XWP R		1	Vissman Lighting LLC	BLX-14-T4-60L-4K-40V-PT-62	37" L x 28" W x 8" H LED LUMINAIRE	4050	73141	120V/277	308	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING WALL
	XWP 1 R		5	Lithonia Lighting	DSXW4 LED 20C 100W 48K TFM MVOLT DB200 W80W-XL	DSXW4 LED WITH 2 HLED LIGHT ENGINES, TYPE TFM OPTIC, 4000K, @ 50W	4050	4350	120V/277	34.9	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING WALL
	XWP N		1	Vissman Lighting LLC	BLX-14-T4-60L-4K-40V-PT-62	37" L x 28" W x 8" H LED LUMINAIRE	4050	73141	120V/277	308	
	BB R		8	Lithonia Lighting	DSXW4 LED 20C 130 48K TFM MVOLT DB200	DSXW4 LED WITH 2 HLED LIGHT ENGINES, TYPE TFM OPTIC, 4000K, @ 50W	4050	4350	120V/277	34.9	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING WALL
	XP2 R		4	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	G1 GLEON-SAG-1454-L-300002 ON EXIST SQUARE POLE	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV VIBE OPTICS	4050	464	120V/277	360	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING POLE
	XP3 N		7	COOPER LIGHTING SOLUTIONS - MCGRAW HILL (FORMERLY EATON)	G1 GLEON-SAG-1454-L-300002 NEW 30 SQUARE POLE 1 @ 180 DEG ON EXIST SQUARE POLE	GALLERIE AREA AND ROADWAY LUMINAIRE (B) TO CR. 400K, 1550MA LIGHTFOURIES WITH 16 LEDS EACH AND TYPE IV VIBE OPTICS	4050	464	120V/277	360	
	XWP 2 R		2	Vissman Lighting LLC	BLX-14-T4-60L-4K-40V-PT-62	37" L x 17" W x 8" H LED LUMINAIRE	4050	5103	120V/277	408	REMOVE EXISTING LIGHTS AND INSTALL NEW ON EXISTING WALL

Photometric Schedule							Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
			6	EXISTING STREET LIGHT	EXISTING	EXISTING TO REMAIN	36	464	1	333	
	CITY XRM										
	XP1 HS N		1	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-THET-HIES	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD	36	313	1	333	
	XP1 R		8	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-SWG	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V INDE OPTICS	36	464	1	333	
	XP1 XRM		3	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-SWG	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V INDE OPTICS	36	464	1	333	
	XP2 180 N		3	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-UMG	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V INDE OPTICS	36	464	1	385	
	XP2 180 XRM		7	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-SWG	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V INDE OPTICS	36	464	1	385	
	XP2 XRM		1	RAB LIGHTING INC.	ALB13730FD0-D-ALB13730SP0-D-1WPL1331300D0-D-1WPL1331300D0-D-1WPL1331300D0-D (TYPE II)	CAST FINISHED METAL HOUSING, 4 CHP CN. 30W/40W LIGHT EMISSION UNITS, INSULATED PLASTIC HOPI FLECTOR WITH SPECULAR FINISH, CLEAR GLASS LENS IN CAST BRONZE PAINTED METAL FRAME.	4	3182	1	728.6	
	XP2 2 90H S R		7	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-THET-HIES	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD	36	313	1	385	
	XP2 90 R		2	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-THET-HIES	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD	36	313	1	385	
	XP3 R		3	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-SWG	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V INDE OPTICS	36	464	1	389	
	XP4 R		1	COOPER LIGHTING SOLUTIONS - MCGRAW-HILL (FORMERLY EATON)	GLEON-SASC-740-U-3-UMG	GALLEON AREA AND ROADWAY LUMINAIRE (S) TO DR. 4000K, 1050MA LIGHTSQUARES WITH 16 LEDES EACH AND TYPE V INDE OPTICS	36	464	1	1332	
	WJ N		7	Lithonia Lighting	DSW40 LED 20C 1000 40C 197M 129277	DSW40 LED WITH 2 LIGHT ENGINES, 20 LEDES, 1000MA DRIVER, 4000K LED, TYPE FORWARD THROW MEDIUM OPTIC	1	7593	1	73	
	WJ R		13	Lithonia Lighting	DSW40 LED 20C 1000 40C 197M 129277	DSW40 LED WITH 2 LIGHT ENGINES, 20 LEDES, 1000MA DRIVER, 4000K LED, TYPE FORWARD THROW MEDIUM OPTIC	1	7593	1	73	
	XWP R		1	Wayne Lighting LLC	BL3-8-8-1-45W-46-50V	37" h x 1.26" w x 8" h LED LUMINAIRE	1	73441	1	505	
	XWD XRM		14	Wayne Lighting LLC	GDN-1-4-171-48LC-3-4K-	26" h d x 17.5" h LED LUMINAIRE	1	7791	1	54	

Photometric Schedule											
Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lensed	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	XF XRM		10	RAB Lighting Inc.		DD34-IR (03012) (V)	1	1173	1	15,354	
	XD XRM		5	RAB LIGHTING INC. RC LIGHTING	BLED4M-BLED4MND10-14Z SQUARE BOLLARDS, BLED4MND10	EXTRUDED BROWN PAINTED SQUARE METAL LOWER HOUSING. CAST METAL TOP. CAST FINISH METAL. HEAT ZONE WITH WHITE PAINTED ALUMINUM MOLDED SURFACING. FINISHED PLASTIC REFLECTOR WITH WHITE CORNER DIVIDERS CREATING 4 OPTICAL COMPARTMENTS. 3 OPTICAL COMPARTMENT CONTAINS 1 WHITE CIRCUIT BOARD WITH 3 LEDs. FRIGATED PLASTIC LENS. CAST BROWN PAINTED METAL BOTTOM.	15	127	1	17.4	
	XWP 1 R		5	Lithonia Lighting	DE5WV1 LED 200-530 40K T17M 120277	DE5WV1 LED WITH 2 (2) 15 LED LIGHT ENGINES. TYP. T17M OPT.C. 4500K @ 50MA.	1	4360	1	34.9	
	BB XRM		21	Lithonia Lighting	DE5WV1 LED 200-530 40K T17M 120277	DE5WV1 LED WITH 2 (2) 15 LED LIGHT ENGINES. TYP. T17M OPT.C. 4500K @ 50MA.	1	4360	1	34.9	
	XWP N		1	Visionaire Lighting LLC	BLXK1-4-74-05L-4-K-UNV	37 in L x 28 in W x 0 in H LED LUMINAIRE	1	73141	1	500	
	BB R		5	Lithonia Lighting	DE5WV1 LED 200-530 40K T17M 120277	DE5WV1 LED WITH 2 (2) 15 LED LIGHT ENGINES. TYP. T17M OPT.C. 4500K @ 50MA.	1	4360	1	34.9	
	XP2 R		4	COOPER LIGHTING SOLUTIONS - MAGRAW: DESIGN (FORMERLY EATON)	GLEON-SAGC74041-2W2	GALLEON AREA AND ROADWAY LUMINAIRE (0) TO GR. 4500K, 4500mA LIGHT SQUARES WITH 16 LEDs EACH AND TYPE V WIDE OPTICS	95	454	1	555	
	XP3 N		2	COOPER LIGHTING SOLUTIONS - MAGRAW: DESIGN (FORMERLY EATON)	GLEON-SAGC74041-2W2	GALLEON AREA AND ROADWAY LUMINAIRE (0) TO GR. 4500K, 4500mA LIGHT SQUARES WITH 16 LEDs EACH AND TYPE V WIDE OPTICS	38	454	1	555	
	XWP 2 R		4	Visionaire Lighting LLC	BLXK1-4-74-05L-4-K-UNV	37 in L x 17 in W x 0 in H LED LUMINAIRE	1	81030	1	450	



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

DATE: 4-22-22 REG. #: 25509
SIGNED: David S. Hove
DAVID S. HOVE

DRAWN BY: K. KUEHN
CHECKED BY: M. KEYS
DATE: 4-8-22

[illegible]

VALLEY WEST SHOPPING CENTER
SITE RELIGHTING
FRANCE AVENUE S & W OLD SHAKOPEE
BLOOMINGTON MN

LIGHT FIXTURE SCHEDULES

SCALE: 1"=50'-0"

E062

