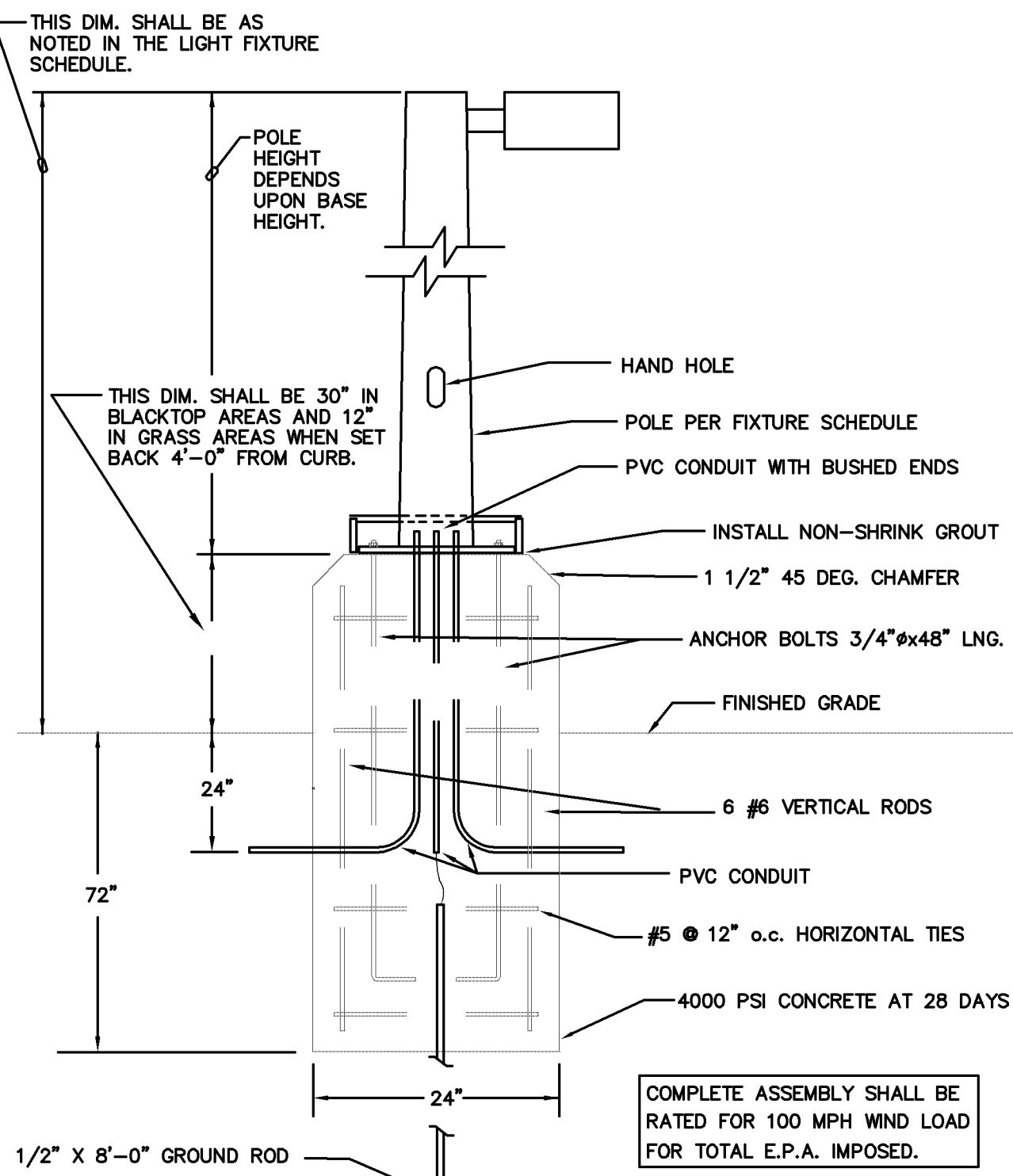
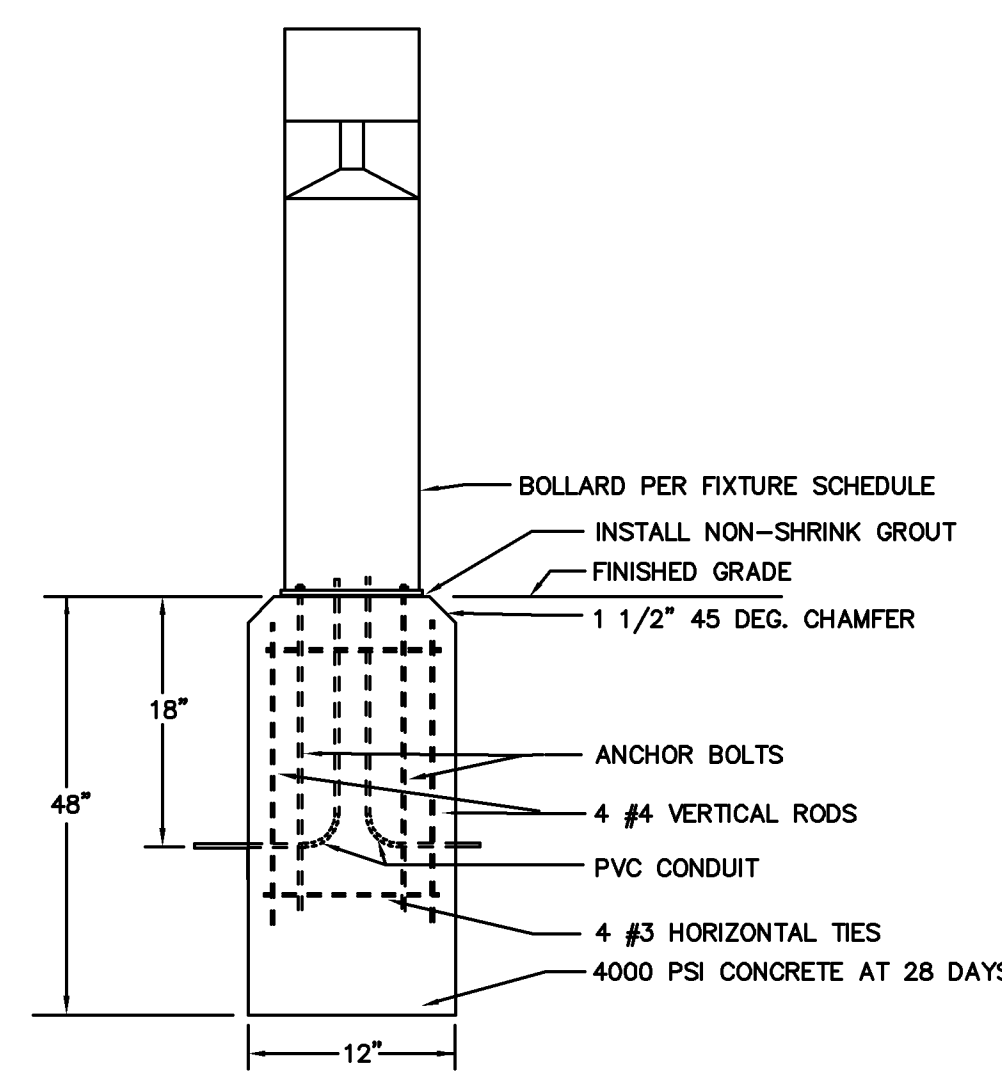


CASE FILE #PL201700072



2 POLE BASE DETAIL
NO SCALE



3 BOLLARD DETAIL
NO SCALE



1 SITE LIGHTING PLAN
1" = 50'-0"

STEEN
ENGINEERING, INC.
5430 Douglas Drive North
Crystal, MN 55429
763-585-6757 fax
Email: steen@steeneng.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
REG. NO.

PROJECT NO.:	SAS201601
DATE:	12-21-16
DRAWN BY:	DIL
CHECKED BY:	SMY
REVISIONS:	
DATE SUBMITTED:	12-21-16
BY:	05-10-17

SITE LIGHTING PLAN

FRIENDSHIP VILLAGE
A LIFESPACE COMMUNITY
BLOOMINGTON
MINNESOTA

Sheet Number
E100

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

REG. NO. _____

PROJECT NO.: SAS201601
DATE: 12-21-16
DRAWN BY: DJL
CHECKED BY: SMY
REVISIONS: _____
DATE SUBMITTED: 12-21-16
BY: JRC

SITE PHOTOMETRIC -
INITIAL

FRIENDSHIP VILLAGE
A LIFESPACE COMMUNITY
BLOOMINGTON
MINNESOTA

Sheet Number
E101



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
0' EAST PROP LINE	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
0' WEST PROPERTY LINE	+	0.5 fc	2.4 fc	0.0 fc	N/A	N/A
10' EAST PROP LINE	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
10' WEST PROP LINE	+	0.2 fc	1.5 fc	0.0 fc	N/A	N/A
Calc Zone #20	+	3.0 fc	3.7 fc	2.2 fc	1.7:1	1.4:1
CENTER PARKING	+	2.3 fc	8.8 fc	0.2 fc	44.0:1	11.5:1
SEC EXIT EAST RESID	+	2.6 fc	2.9 fc	2.3 fc	1.3:1	1.1:1
SEC EXIT NE HEALTH	+	2.2 fc	4.3 fc	1.0 fc	4.3:1	2.2:1
SEC EXIT NE HEALTH(Copy)	+	2.1 fc	3.8 fc	1.2 fc	3.2:1	1.8:1
SEC EXIT SE HEALTH	+	4.7 fc	7.3 fc	3.3 fc	2.2:1	1.4:1
SEC EXIT SW HEALTH	+	2.4 fc	3.6 fc	0.0 fc	N/A	N/A
SW DRIVE-PARKING	+	1.9 fc	4.3 fc	0.6 fc	7.2:1	3.2:1
WEST DRIVE/PARK	+	1.9 fc	4.0 fc	0.7 fc	5.7:1	2.7:1

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
□	AA3	11	LSI INDUSTRIES, INC	XAMU-3-LED-128-HO-NW-HSS			1	XAMU-3-LED-128-HO-NW-HSS.ies	9623	1	188
□	AA3T	2	LSI INDUSTRIES, INC	XAMU-3-LED-128-HO-NW			1	XAMU-3-LED-128-HO-NW.ies	15025	1	372
□	AA4	2	LSI INDUSTRIES, INC	XAMU-FT-LED-128-HO-NW-HSS			1	XAMU-FT-LED-128-HO-NW-HSS.ies	11498	1	190
○	BB3	10	Amerlux Exterior	DPM-DSM-T3-4L	N/A	Lumileds LHC1-4080-1204	1	dpm-dsm-t3-4lies	6526	1	82.1
□	EE	8	HUBBELL OUTDOOR	LN-9LU-4K-4	LN-9 LED, 4000K, TYPE 4	9- NICHIA 4K LEDS	1	LN-9LU-4K-4.ies	2056	1	22.2
○	CC	17	LSI INDUSTRIES	XBYR-ID-LED-24-406-NW-UE			1	XBYR-ID-LED-24-406-NW-UE.ies	1224	1	38

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

REG. NO.

PROJECT NO.: SAS201601
DATE: 12-21-16
DRAWN BY: DIL
CHECKED BY: SMY
REVISIONS:
DATE: 12-21-16
DRAWING SUBMITTAL: 05-05-17
ARC SUBMITTAL:

SITE PHOTOMETRIC -
MAINTAINED

**FRIENDSHIP VILLAGE
A LIFESPACE COMMUNITY**
BLOOMINGTON
MINNESOTA

Sheet Number

E102



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
0' EAST PROP LINE	+	0.0fc	0.0fc	0.0fc	N/A	N/A
10' EAST PROP LINE	+	0.0fc	0.0fc	0.0fc	N/A	N/A
Calc Zone #13	+	1.5fc	1.5fc	1.5fc	1.0:1	1.0:1
Calc Zone #14	+	1.6fc	1.6fc	1.5fc	1.1:1	1.1:1
Calc Zone #16	+	1.4fc	9.8fc	0.2fc	49.0:1	7.0:1
Calc Zone #16	+	2.0fc	6.7fc	0.1fc	67.0:1	20.0:1
EAST SIDEWALK	+	1.3fc	6.5fc	0.1fc	65.0:1	13.0:1
Exit	+	2.8fc	3.4fc	2.3fc	1.5:1	1.2:1
Exit	+	1.8fc	2.1fc	1.6fc	1.3:1	1.1:1
Exit	+	1.9fc	2.1fc	1.7fc	1.2:1	1.1:1
SEC EXIT EAST RESID	+	1.2fc	1.5fc	1.0fc	1.5:1	1.2:1
SEC EXIT SE HEALTH	+	3.9fc	6.0fc	2.7fc	2.2:1	1.4:1
SEC EXIT SW HEALTH	+	4.1fc	6.3fc	1.9fc	3.3:1	2.2:1
WEST DRIVE/PARK	+	1.5fc	3.3fc	0.5fc	6.6:1	3.0:1

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
□	AA3	11	LSI INDUSTRIES, INC	XAMU-3-LED-128-HO-NW-HSS			1	XAMU-3-LED-128-HO-NW-HSS.ies	9823	0.81	188
□	AA3T	2	LSI INDUSTRIES, INC	XAMU-3-LED-128-HO-NW			1	XAMU-3-LED-128-HO-NW.ies	15025	0.81	372
□	AA4	2	LSI INDUSTRIES, INC	XAMU-FT-LED-128-HO-NW-HSS			1	XAMU-FT-LED-128-HO-NW-HSS.ies	11498	0.81	190
○	BB3	10	Amerlux Exterior	DPM-DSM-T3-4L	N/A	Lumileds LHC1-4080-1204	1	dpm-dsm-t3-4l.ies	6526	0.81	82.1
□	EE	8	HUBBELL OUTDOOR	LNC-9LU-4K-4	LNC, 9 LED, 4000K, TYPE 4	9-NICHIA 4K LEADS	1	LNC-9LU-4K-4.ies	2056	0.81	22.2
○	CC	17	LSI INDUSTRIES	XBVR-ID-LED-24-400-NW-UE			1	XBVR-ID-LED-24-400-NW-UE.ies	1224	0.81	38

