

Brookside Addition Phase 4
EMERGENCY RELIEF PATH CALCULATIONS

E.R.P.	Structure	Swale Type	Bottom Width	Drainage Areas	ERP FL	Total 100 YR Q	100 YR Water Depth in Swale at high	100 YR Water Elev.	MLS Elevation	Window Wells Required	100YR,20MIN HGL Stays within System	Notes
Maple Brook Drive - Sta 04+97	CI 112 & 115	Street Inlet	6	12,13,14,15	483.14	8.43	0.51	483.65	Lot 97 & 98 - 484.4	NO	YES	Top of CI 115 elev-483.02; depth from inlet top to 100 year water surface depth - 0.63' ≈ 7.5"
Lot 107	AI 116	Rear Yard	8	7	483.0	1.98	0.14	483.14	Lot 107 - 485.1 Lot 108 - 485.1	YES	YES	
Lot 108	AI 108	Rear Yard	8	6,7,8,9,10,11	482.7	17.91	0.46	483.16	Lot 106 - 485.5 Lot 108 - 485.1	YES	YES	
Lot 109	AI 107	Side Yard	8	5,6,7,8,9,10,11	483.60	20.00	0.48	484.08	Lot 109 - 485.1	YES	YES	
Maple Brook Drive - Sta 07+20	CI 105	Street Inlet	10	3,4,5,6,7,8,9,10,11	483.13	22.77	0.47	483.60	Lot 94 & 95 - 484.3	NO	YES	Top of CI 115 elev-483.02; depth from inlet top to 100 year water surface depth - 0.62' ≈ 7.5"

3" TYPE "C" ASPHALTIC CONCRETE WEARING SURFACE

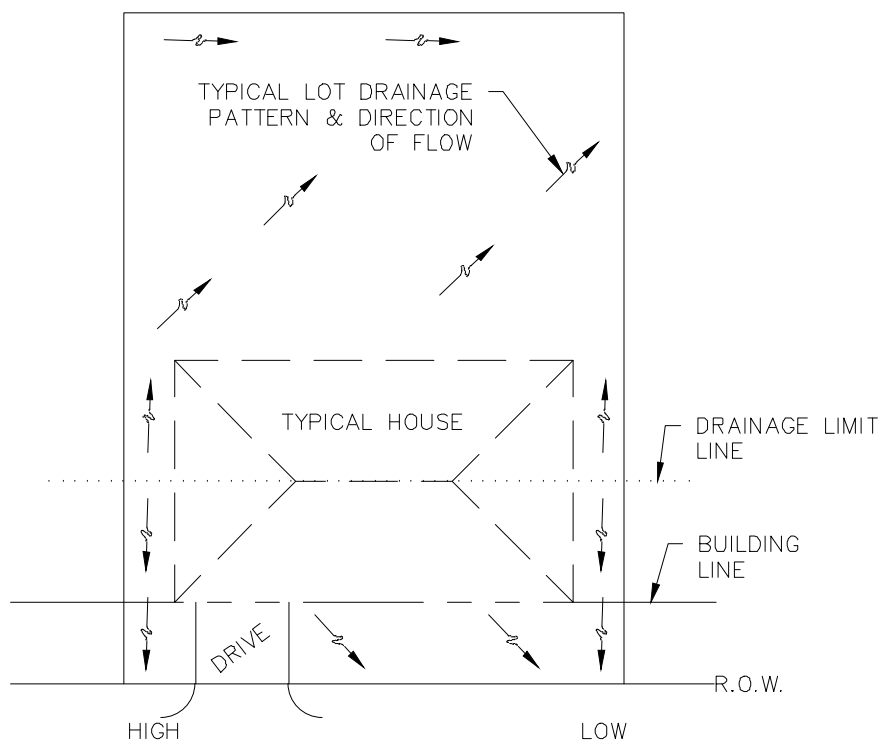
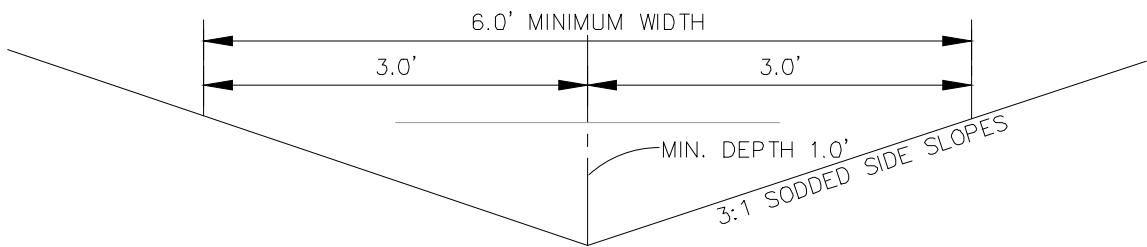
4" COMPACTED TYPE 1 AGGREGATE BASE

THE ASPHALT SURFACE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY
ASPHALT PAVEMENT DETAIL FOR WALKING TRAIL
NOT TO SCALE

TYPICAL YARD SWALE

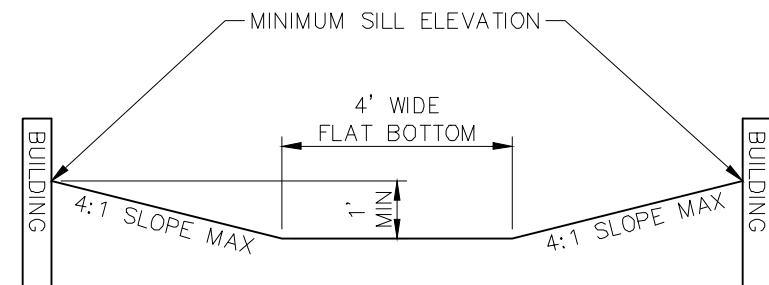
Maximum Discharge (Q) = 3.00 cfs
Maximum Velocity (V) = 3.00 ft/sec
N = 0.030 (grass)
Maximum side slopes = 3 (horizontal) :1 (vertical)

Longitudinal Slope (%)	Discharge (cfs)	Velocity (ft/sec)	Depth (ft)
0.5	3.00	1.73	0.76
1.0	3.00	2.23	0.67
2.0	3.00	2.87	0.59
3.0	1.99	3.00	0.47
4.0	1.30	3.00	0.38
5.0	0.92	3.00	0.32
6.0	0.70	3.00	0.28
7.0	0.52	3.00	0.24
8.0	0.43	3.00	0.22
9.0	0.36	3.00	0.20
10.0	0.32	3.00	0.19



TYPICAL LOT DRAINAGE

NOT TO SCALE

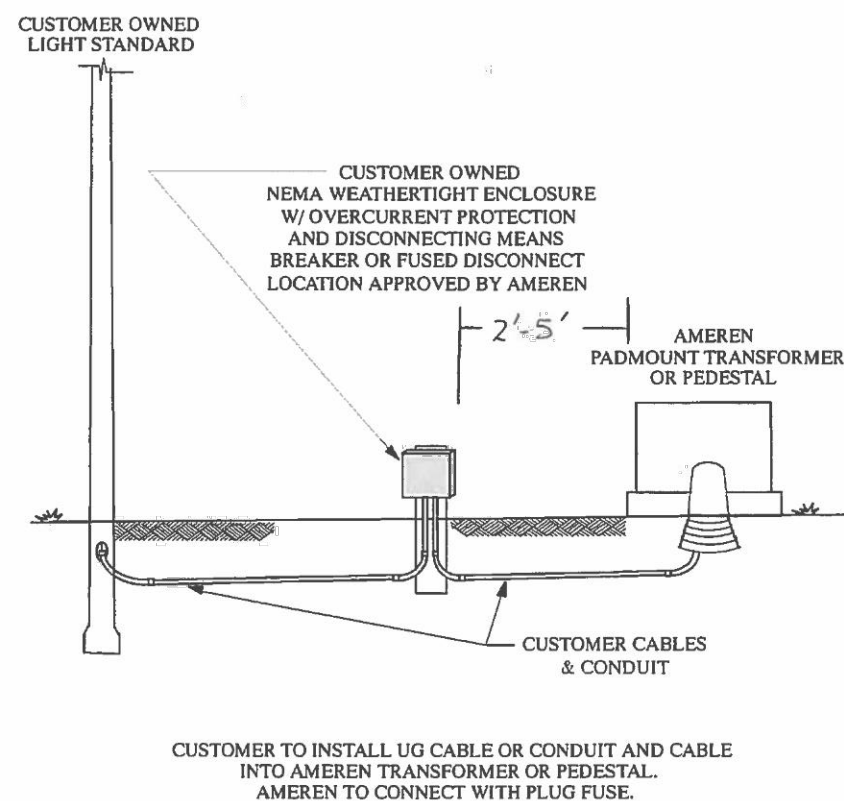


NOTE:
TOP OF WINDOW WELL SHALL BE CONSIDERED THE MINIMUM SILL WHEN UTILIZED.

TYPICAL EMERGENCY RELIEF PATH SECTION

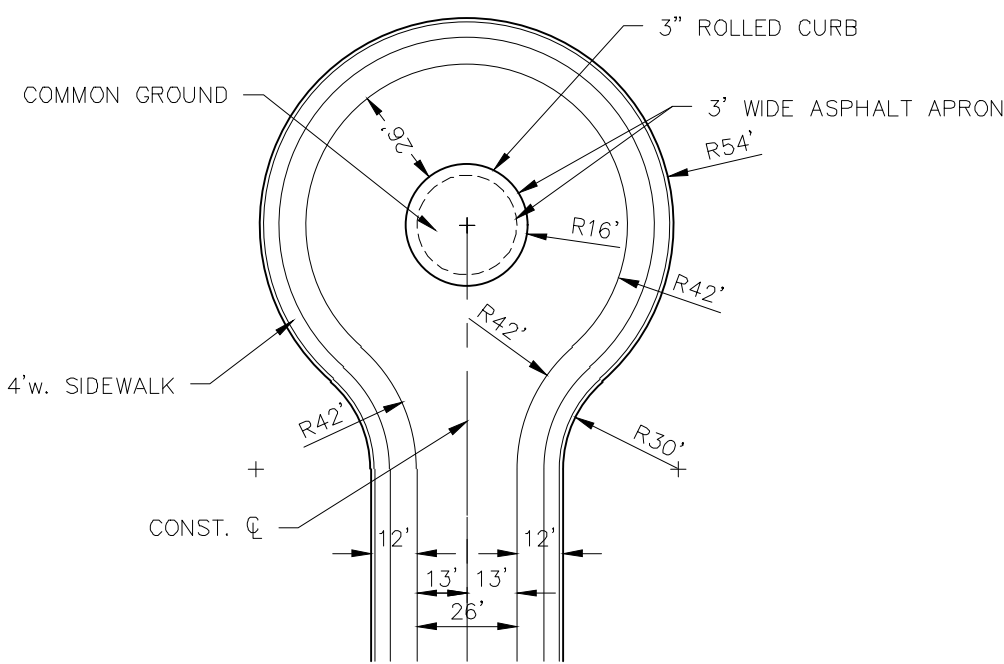
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CUSTOMER OWNED LIGHTING (6M)
UNMETERED INSTALLATION



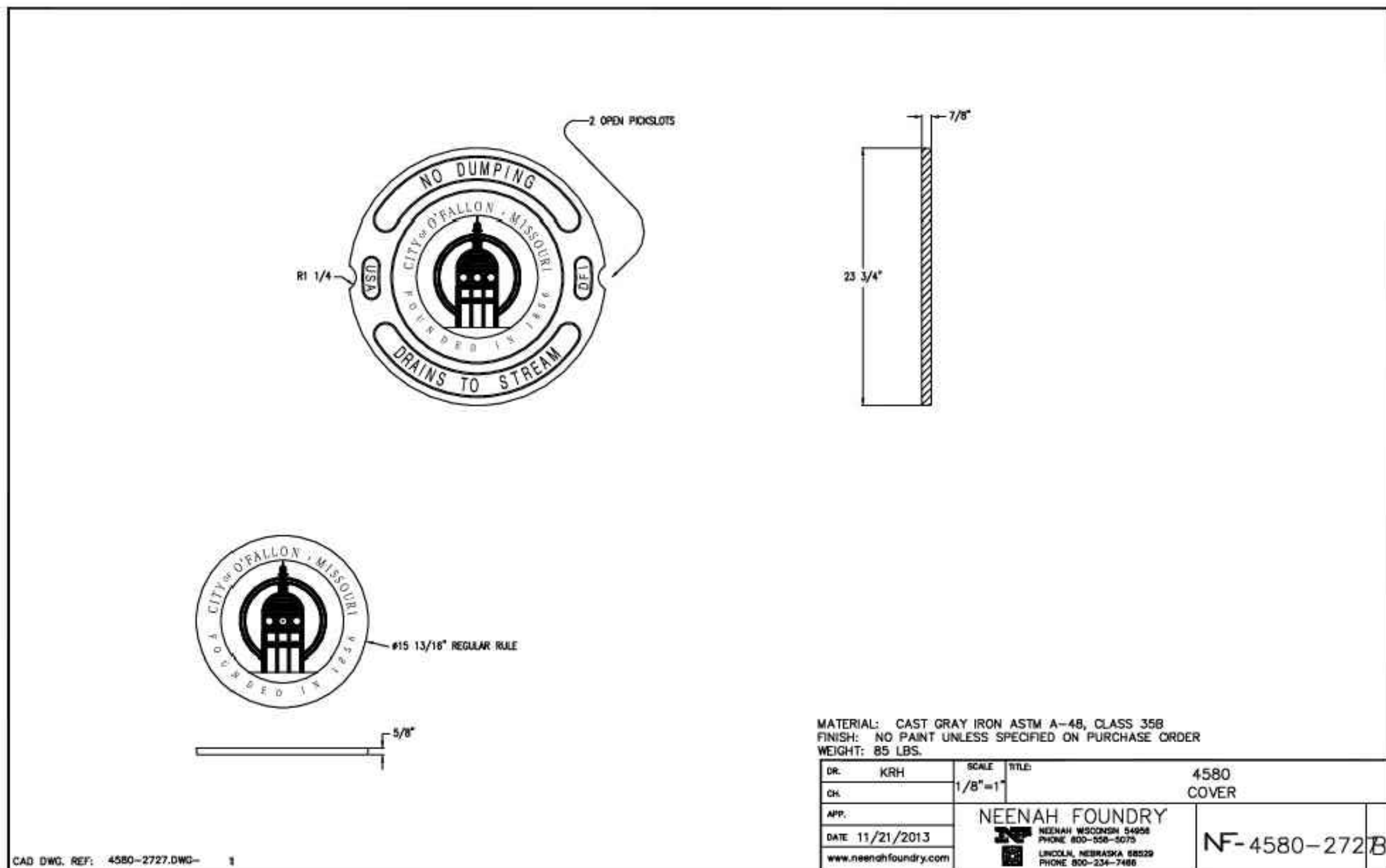
CUSTOMER TO INSTALL LUG CABLE OR CONDUIT AND CABLE INTO AMEREN TRANSFORMER OR PEDESTAL. AMEREN TO CONNECT WITH PLUG FUSE.

AMEREN QUICK DISCONNECT DETAIL



TYPICAL CUL-DE-SAC DETAIL

NOT TO SCALE

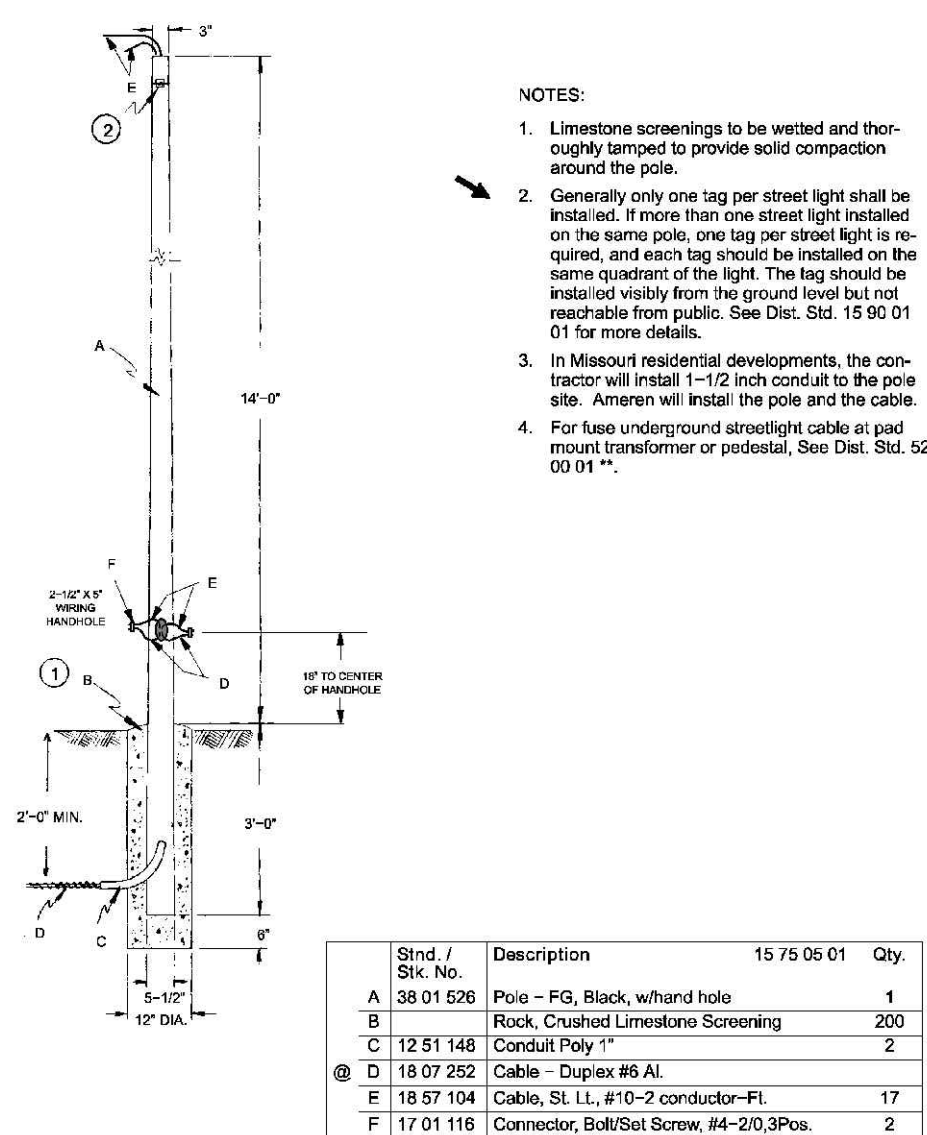


STORM SEWER LID DETAIL

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OUTDOOR LIGHTING
Post Top Installation Fiberglass Pole
14 Foot Mounting Height

15 75 05 01
Sheet 1 of 1



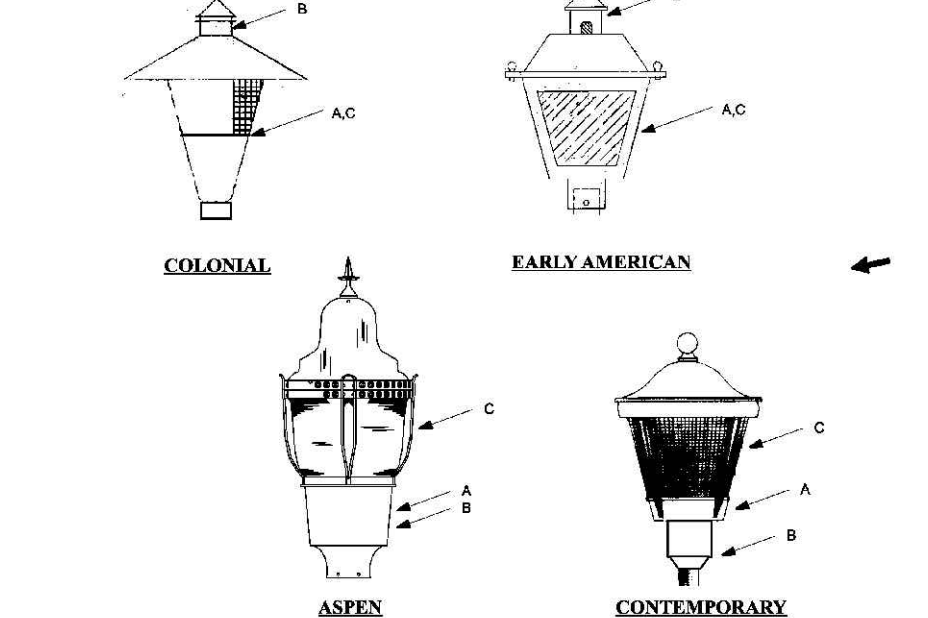
- NOTES:
- Limestone screenings to be wetted and thoroughly tamped to provide solid compaction around the pole.
 - Generally only one tag per street light shall be installed. If more than one street light is installed on the same pole, one tag per street light is required, and each tag should be installed on the same quadrant of the light. The tag should be installed visibly from the ground level but not reachable from public. See Dist. Std. 15 80 01 01 for more details.
 - In Missouri residential developments, the contractor will install 1-1/2 inch conduit to the pole site. Ameren will install the pole and the cable.
 - For base underground straight cable at pad mount transformer or pedestal. See Dist. Std. 52 00 01 01.

Std. / Sht. No.	Description	15 75 05 01 Qty.
A 38 01 626	Pole - FG, Black, without hole	1
B 12 51 148	Rock, Crushed Limestone Screening	200
C 18 07 252	Cable - Duplex #6 AL	2
E 18 57 104	Cable, SL LL, #10-2 conductor-PL	17
F 17 01 116	Connector, Bolt/Sat Screw, #4-20, 3Pcs.	2

DISTRIBUTION CONSTRUCTION STANDARDS
ENG:WYW
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OUTDOOR LIGHTING
Luminaire Components - Post Top Installation

15 70 14 **
Sheet 1 of 1



- Position luminaire to facilitate service from the street.
- On Type III, align refractor with street side.
- Face eye of photo-electric cell north.

Std. / Sht. No.	Description	15 70 14 **	01	02	03	04	05	06	07	08	09	10
A 38 01 624	Colonial, 100w, HPS, Type III	MO	1									
38 01 625	Colonial, 100w, HPS, Type V	MO	1									
38 01 617	Early American, 100w, HPS, Type II	ALL										
38 01 618	Early American, 100w, HPS, Type V	MO			1							
38 01 642	Early American, 175w, MH, Type II	IL										
38 01 613	Contemporary, 100w, HPS, Type III	MO				1						
38 01 614	Contemporary, 100w, HPS, Type V	MO					1					
38 01 684	Aspen, 100w, HPS, Type III	MO						1				
38 01 685	Aspen, 100w, HPS, Type V	MO							1			
B 38 51 366	Switch, Photo electric Cell		1	1	1	1	1	1	1	1	1	1
C 26 55 260	Lamp, 100w, HPS		1	1	1	1	1	1	1	1	1	1
D 26 66 260	Lamp, 175w, MH											

DISTRIBUTION CONSTRUCTION STANDARDS
ENG:WYW
REV. NO: 1
REV. DATE: 02/13/07
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TYPICAL STREET LIGHTING

NOT TO SCALE

ISSUE	DATE / REMARKS
1	1-19-2024 Initial Submittal
2	5-01-2024 City Comment Revisions
3	6-21-2024 City Comment Revisions
4	7-30-2024 City Comment Revisions
5	8-30-2024 City Comment Revisions

PROJECT TITLE
BROOKSIDE
ADDITION
PHASE 4
OFALLON, MISSOURI

THE **STERLING** CO.
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Corporate Certificate of Authority #001348

STATE OF MISSOURI
RODNEY ARNOLD
Professional Engineer
PE-2002016612

Date: 8/30/2024
RODNEY ARNOLD
LICENSE # PE-2002016612
Professional Engineer

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MISCELLANEOUS DETAILS

P+Z No. 23-010457
City No. 24-000568
Date: 8/30/2024
Job No. 22-09-284

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