

ISSUE	REMARKS/DATE
1	3-21-17 INITIAL SUBMITTAL
2	6-6-17 REVISED PER CITY COMMENTS
3	7-20-17 REVISED PER CITY COMMENTS
4	8-7-17 APPROVAL

PROJECT TITLE
COBBLESTONE CROSSING
 OF FALLON, MISSOURI

THE **STERLING** CO.
 ENGINEERS & SURVEYORS
 5065 New Baumgardner Road
 St. Louis, Missouri 63129
 Ph 314-487-0440 Fax 314-487-8944
 www.sterling-eng-sur.com
 Corporate Certificate of Authority #001348

Date: 8/7/2017
 Michael G. Boerding
 License No. MO E-28643
 Civil Engineer

McBRIDE HYLAND GREEN, LLC
 16091 SWINGLEY RIDGE ROAD, SUITE 300
 CHESTERFIELD, MISSOURI 63017
 Ph. 636-537-2000
 Fax 636-537-2546
 www.mcbridehomes.com

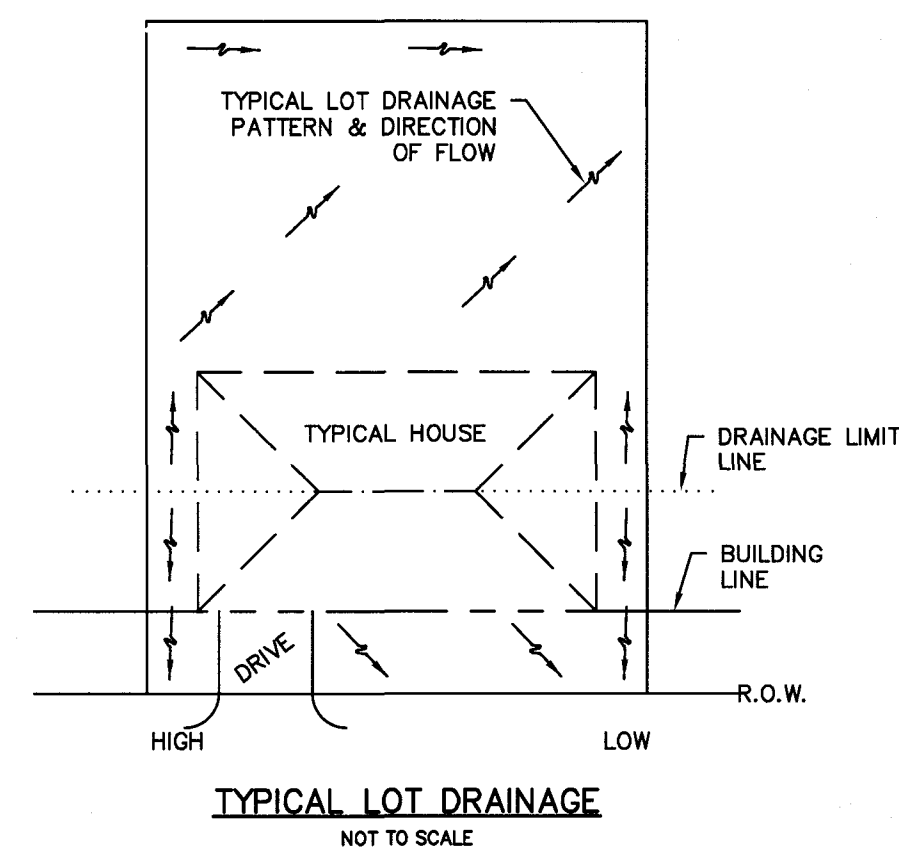
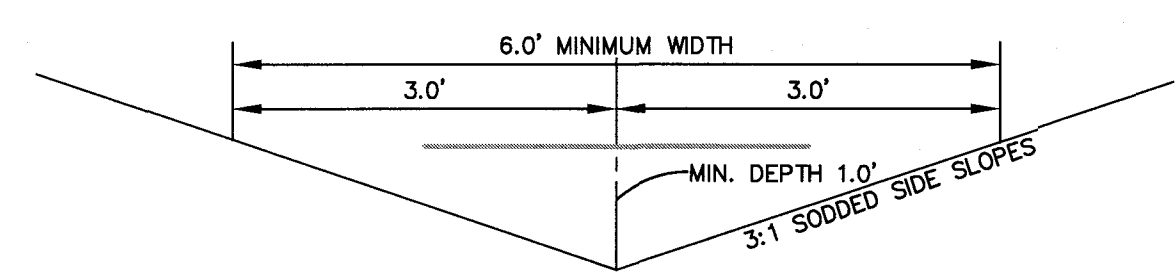
P+Z No. 29-16.01
 City No.
 Date: Aug. 7, 2017
 Job No. 16-08-239
 Page No.

DTL-9
 IMP

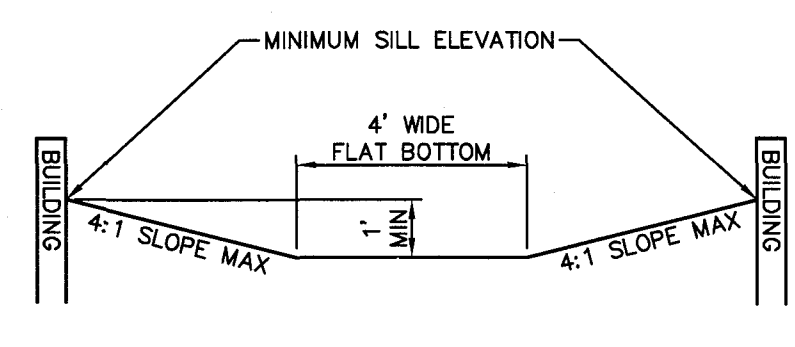
TYPICAL YARD SWALE

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

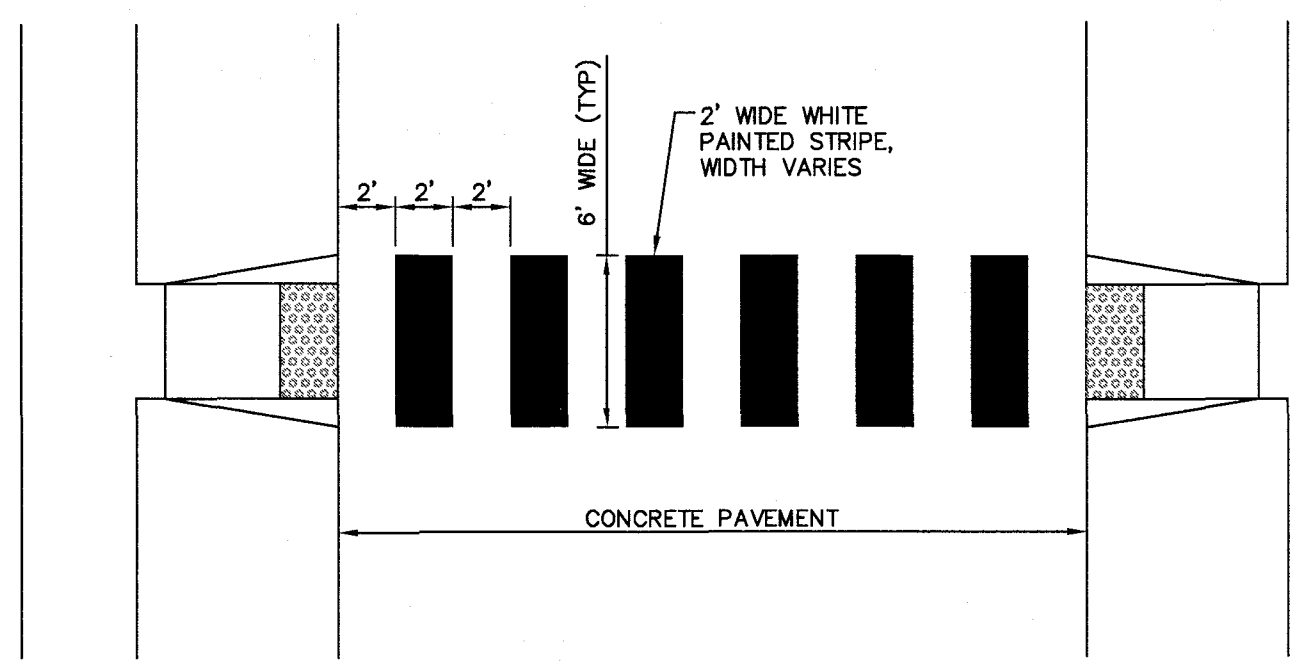


TYPICAL LOT DRAINAGE
 NOT TO SCALE

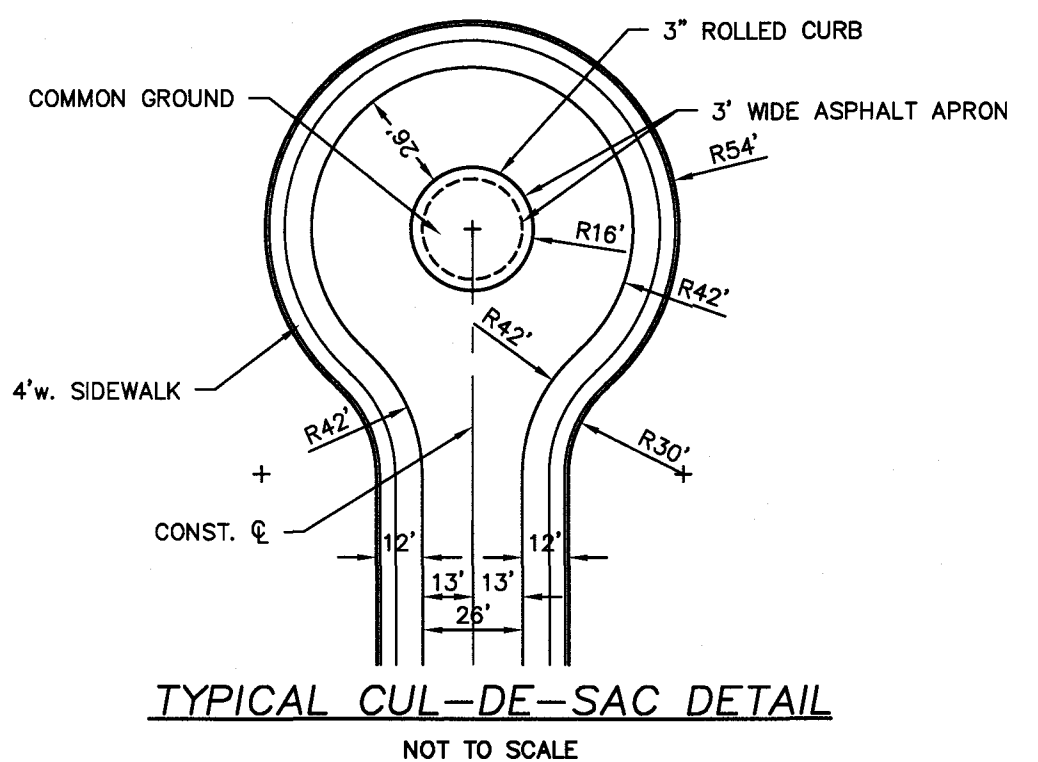


NOTE: TOP OF WINDOW WELL SHALL BE CONSIDERED THE MINIMUM SILL WHEN UTILIZED.

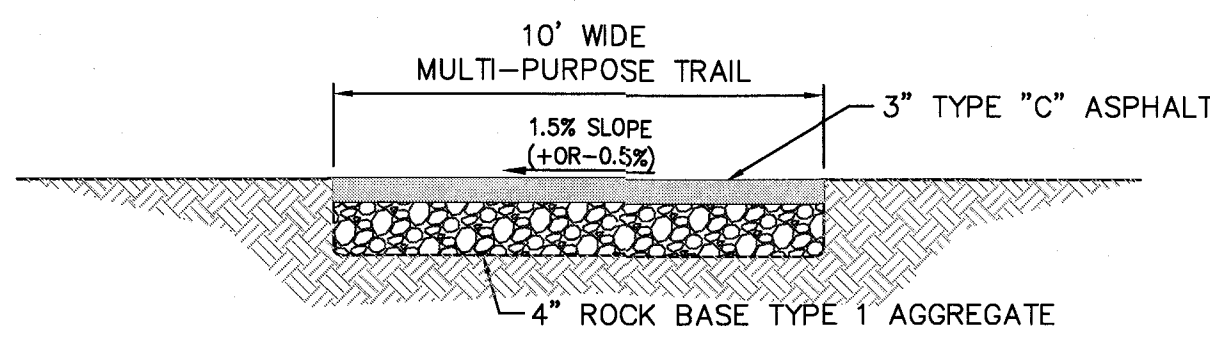
TYPICAL EMERGENCY RELIEF PATH SECTION
 NOT TO SCALE



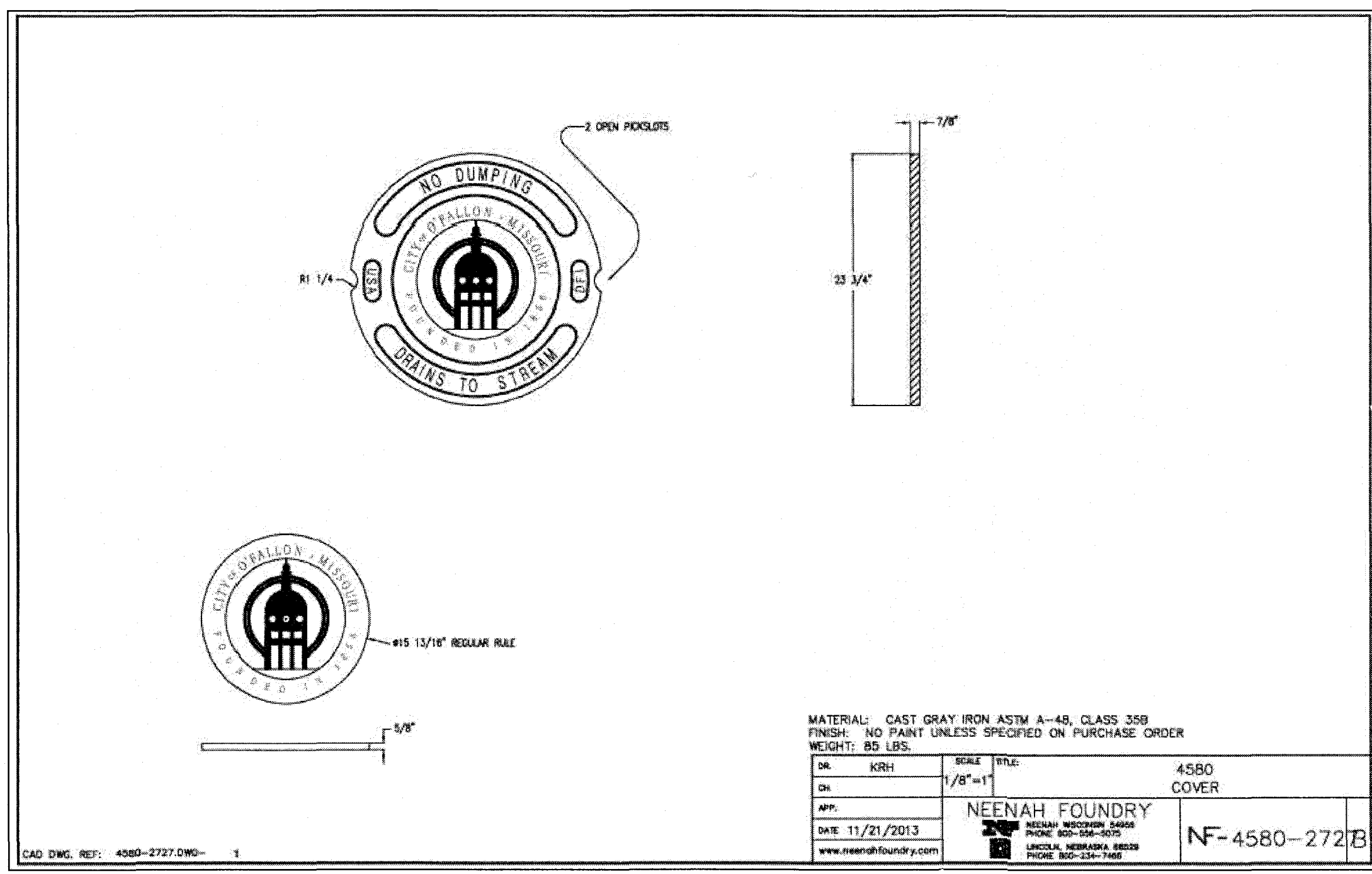
TYPICAL MID-BLOCK CROSSWALK DETAIL
 NOT TO SCALE



TYPICAL CUL-DE-SAC DETAIL
 NOT TO SCALE



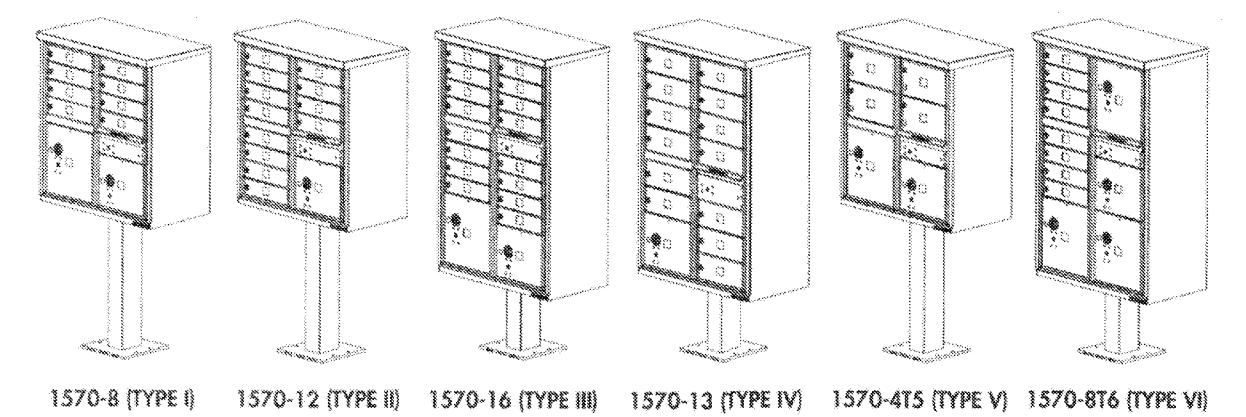
ASPHALT MULTI-PURPOSE TRAIL
 N.T.S.



STORM SEWER LID DETAIL
 NOT TO SCALE

CBU PRODUCT INFORMATION
 vital™ cluster box units - 1570 Series

Florence vital™ cluster box units are an officially licensed product of the US Postal Service for centralized mail delivery.
 License # 1CDSEQ-08-B-0012



	TYPE I	TYPE II	TYPE III	TYPE IV	TYPE V	TYPE VI
INSTALL HEIGHT	62"	62"	62"	62"	62"	62"
DEPTH	18"	18"	18"	18"	18"	18"
WIDTH	30-1/2"	30-1/2"	30-1/2"	30-1/2"	30-1/2"	30-1/2"
PEDESTAL HEIGHT	28-1/2"	28-1/2"	14-1/2"	14-1/2"	28-1/2"	14-1/2"
WEIGHT (WITHOUT PEDESTAL)*	107 LBS	111 LBS	147 LBS	137 LBS	112 LBS	148 LBS
WEIGHT (WITH PEDESTAL)*	125 LBS	129 LBS	162 LBS	152 LBS	130 LBS	163 LBS
QTY OF STANDARD COMPARTMENTS	8	12	16	13	4	8
STANDARD COMPARTMENT HEIGHT	3-1/4"	3-1/4"	3-1/4"	5"	6-1/2"	3-1/4"
QTY OF PARCEL COMPARTMENTS	2	1	2	1	2	4
PARCEL COMPARTMENT HEIGHT	10", 13"	10"	10", 13"	10"	10", 13"	10", 13"

*Weights do NOT include packaging - product only.
 Note: For installation of Florence vogue™ decorative CBU accessories, please refer to manual located within the vogue™ product packaging.

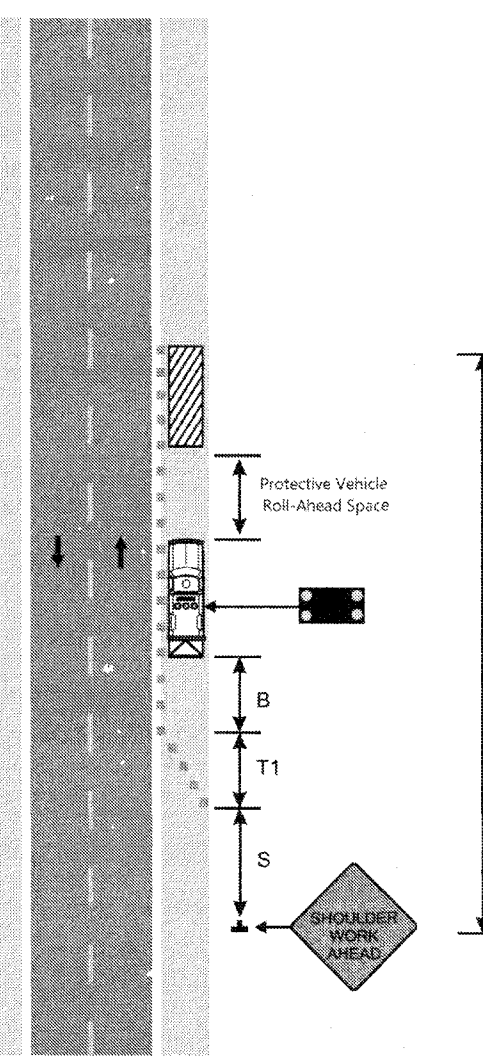
AF FLORENCE
 www.florenceconcrete.com 91194 Rev E Page 3 of 16

FLORENCE MANUFACTURING CPU PRODUCT INFORMATION

616.8-3 (TA-3) Shoulder Work on Two-Lane Highways with Edgelines - MT

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)	OPTIONAL BUFFER LENGTH (ft.)	CHANNELIZER SPACING (ft.)	
	Undivided (U)	Divided (D)			Shoulder (S)	Work Areas (W)
0-35	200	-	70	250	35	50
40-45	350	-	150	350	40	100
50-55	500	-	185	425	50	100
60-70	1000	-	235	730	60	100

ROADWAY TYPE	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (ft.)
URBAN	7' Portable	1 Mi.
RURAL UNDIVIDED	7' Portable	3 Mi.



In addition to shoulder work, this typical application is applicable to work beyond shoulder where vehicles and equipment are parked on the shoulder.

A protective vehicle shall be used while work is in progress. The protective vehicle should be equipped with a TMA and positioned at least 150 ft. in advance of the work space.

If encroachment onto driving surface occurs and there is not 10 ft. of driving surface available for the lane of traffic, that traffic lane shall be closed. Refer to appropriate lane closure typical applications.

If an arrow panel is used for an operation on the shoulder, the caution mode shall be displayed.

For short duration or mobile operations, signs, channelization devices, and protective vehicles may be reduced or eliminated if a work vehicle with activated rotating lights or strobe lights is used. However, if limited sight distance exists, a protective vehicle should be used. This protective vehicle should be equipped with a TMA and truck mounted flashing arrow panel and positioned at least 150 ft. in advance of the work space or work vehicle, as applicable. If a protective vehicle is used, a vehicle mounted sign shall be mounted at a recommended height of 48 in. above the road surface.

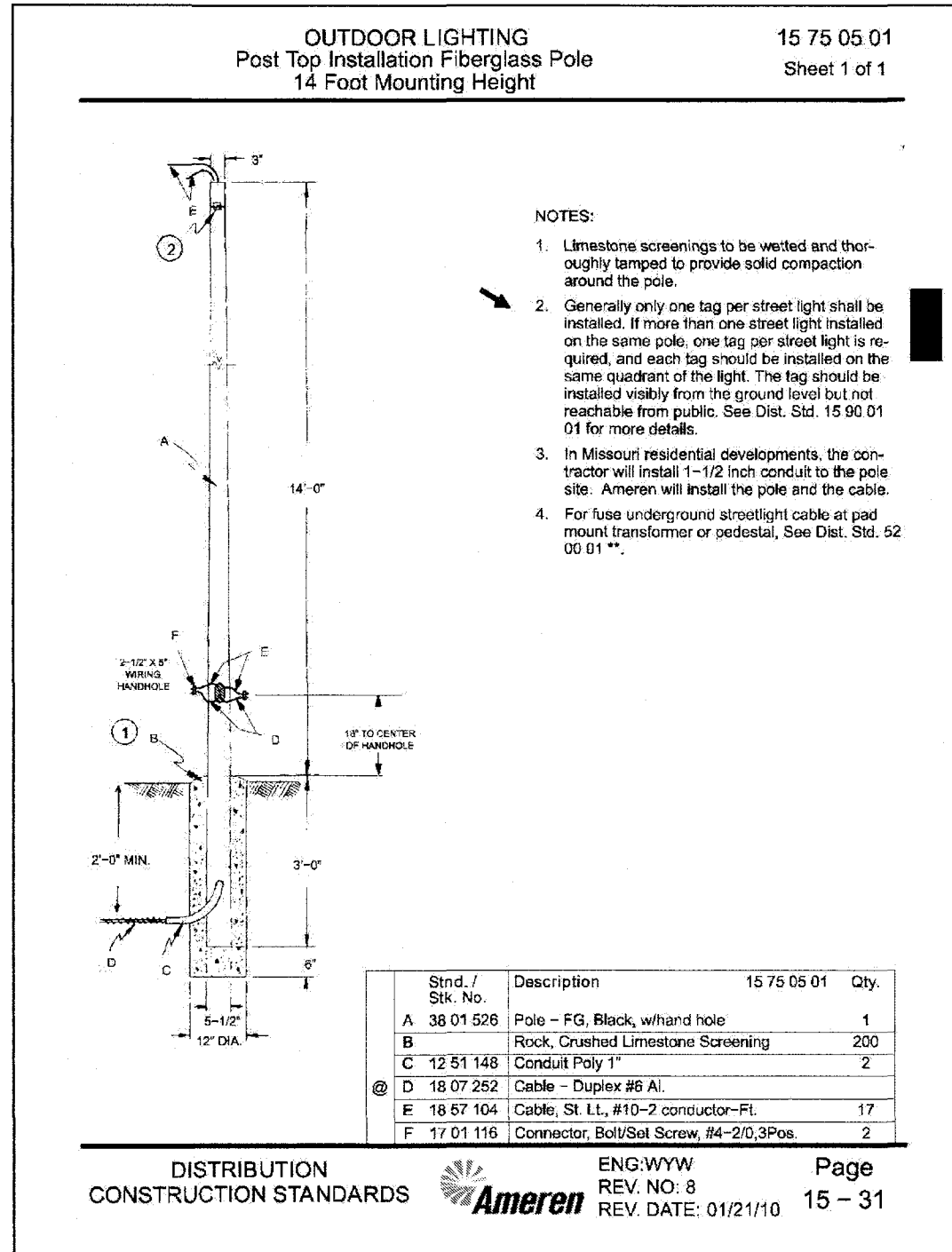
For work beyond shoulder, where vehicles and equipment are parked on the shoulder, the protective vehicle may be eliminated if a work vehicle with activated rotating lights or strobe lights is used.

Vehicle hazard warning signals shall not be used instead of the vehicle's rotating lights or strobe lights.

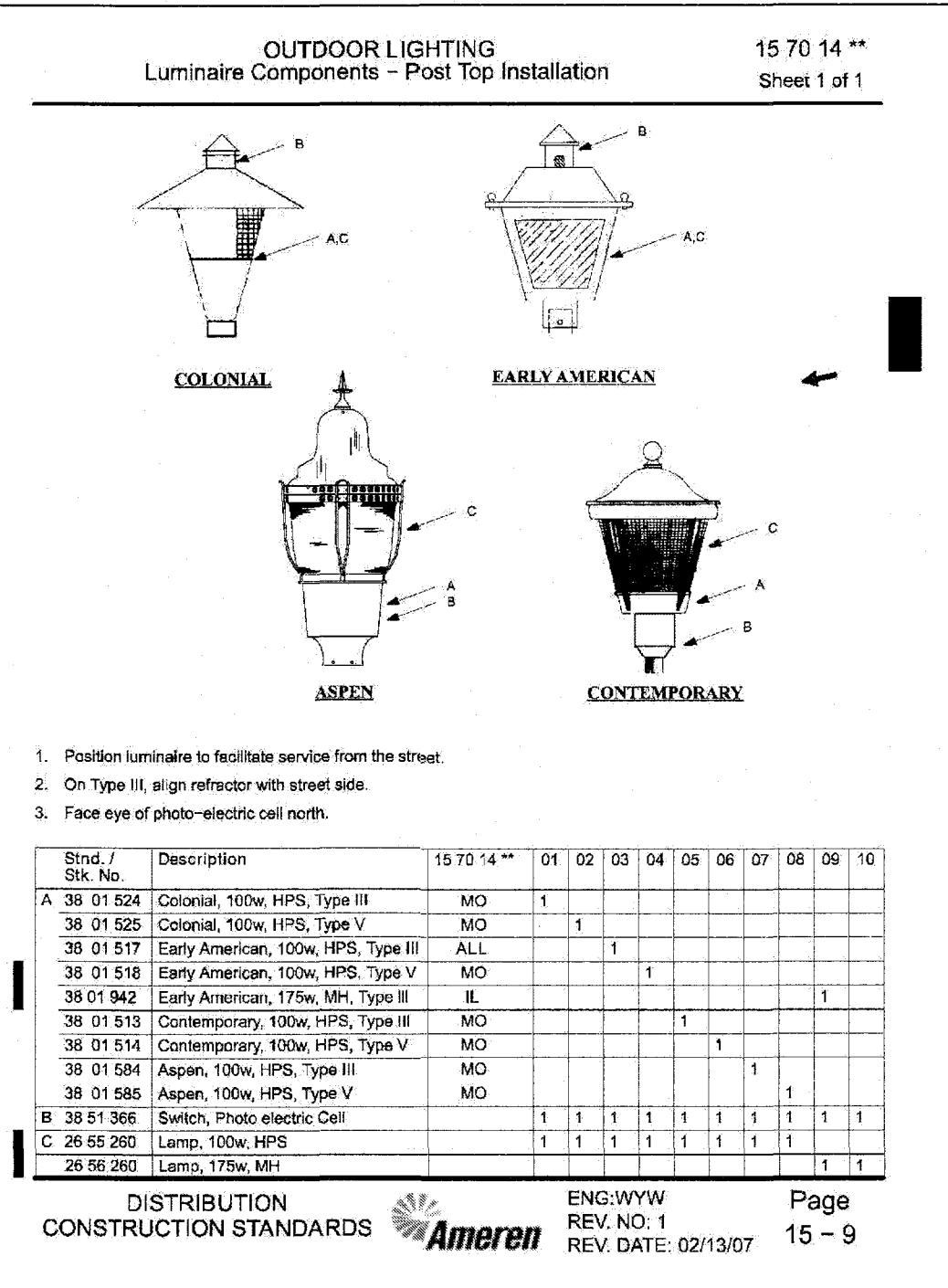
Additional warning signs shall be erected at each intersection with another state highway within the work zone. Upon the discretion of the supervisor, additional warning signs may be erected at other intersections within the work zone.

Other appropriate signs may be used in lieu of SHOULDER WORK AHEAD sign.

TA-3 11/13



TYPICAL STREET LIGHTING
 NOT TO SCALE



TYPICAL STREET LIGHTING
 NOT TO SCALE