



Center Township Small Project Stormwater Management Application

Per Center Township's Act 167 Stormwater Management Ordinance, a stormwater management plan is required whenever Regulated Activities involve the creation of new impervious surfaces equal to, or greater than 1,000 square feet and less than 5,000 square feet. Impervious surfaces are areas that prevent the infiltration of water into the ground and shall include, but not be limited to, roofs, patios, garages, storage sheds and similar structures, and any new streets or sidewalks.

To Calculate Impervious Surfaces Please Complete This Table					
Surface Type	Length	X	Width	=	Proposed Impervious Area
Building (area per downspout)		X		=	
		X		=	
		X		=	
		X		=	
Driveway		X		=	
		X		=	
		X		=	
Parking Areas		X		=	
		X		=	
		X		=	
Patios/Walks		X		=	
		X		=	
		X		=	
		X		=	
Other		X		=	
		X		=	
		X		=	
Total Impervious Surface Area to be managed (sum of all areas)					1

All areas referenced above must be depicted on a Site Plan for all projects.

If Total Impervious Surface Area to be managed is **EQUAL TO or GREATER than 5,000 square feet**, the Applicant **MUST** submit a Stormwater Management Plan and Report as defined in Article VIII of the Ordinance and implement volume and rate controls.

If the Total Impervious Surface Area to be managed is **LESS THAN 5,000 square feet**, or the proposed development is a Single Family Residential Activity Implementing the minimum measures in Section 21-302.E. read, acknowledge and sign below. A Stormwater Management Plan and Report IS NOT required for this Regulated Activity. Center Township may request additional information and/or a SWM Plan for any reason.

See 'On Lot Stormwater Detention Sump Sizing Sheet', included on page 3 of this appendix, for volume calculations when designing a stormwater detention sump. Total Impervious Surface Area to be managed from this sheet is used for the volume calculations, denoted as field 1.

Applicant or Property Owner certifies that Sections 21-302.A., 21-302.B., and 21-302.C. have been adequately addressed and acknowledges that submission of inaccurate information may result in a stop work order or permit revocation. Acknowledgement of such is by signature below.

I declare that I am the Owner or Owner's legal representative. I further acknowledge that the information provided is accurate and employees of Center Township are granted access to the above described property for review and inspection

_____ **Owner or Legal Representation**

_____ **Date**



Center Township On Lot Stormwater Detention Sump Sizing Sheet

Please follow the below formulas to calculate required volume and appropriate sizing dimensions for Stormwater Detention Sumps. See Center Township Standard Details SD22, SD23, and SD24 on pages 5-7 of this appendix for more information. A 'Small Project Stormwater Management Application' should always accompany this form. See example on page 4.

$$\text{Total Impervious Surface Area to be managed}_* \times \frac{2 \text{ inches}}{12}^{**} \times 2.5^{***} = \text{Total Sump Volume}$$

Total Sump Volume = Length × Width × Depth, where

Depth = 5' maximum,

Length and Width vary based on each specific site, and

Length is greater than or equal to three times the Width

(In other words, length to width ratio is minimum 3: 1, or $L \geq 3 \times W$)

Please show all calculations in the box below and complete the fields at the bottom of the page with the stormwater detention sump details for your proposed regulated activity.

Total Sump Volume = _____

Length = _____

Width = _____

Depth = _____

* See total area from 'Small Project Stormwater Management Application' worksheet, in square feet

** See section §21-304.B.2.a of the Stormwater Management ordinance, which states that the first 2 inches of runoff from all new impervious surfaces must be captured

*** See Center Township Standard Detail SD22, note 3, which states that sumps are assumed to be 40% voids



Center Township
On Lot Stormwater Detention Sump Sizing Sheet

Example A:

Proposed regulated activity includes the construction of 1,000 SF of roof area and 200 SF of driveway. There is 5' of available width on the lot for the sump.

$$\text{Total Impervious Surface Area to be managed} = 1,200 \text{ SF}$$

$$\text{Total Sump Volume} = 1,200 \times \frac{2}{12} \times 2.5 = 500 \text{ CF}$$

Assuming depth is the maximum 5', and width is the available 5';

$$\text{Total Sump Volume} = L \times W \times D$$

$$500 = L \times 5 \times 5$$

$$500 = L \times 25$$

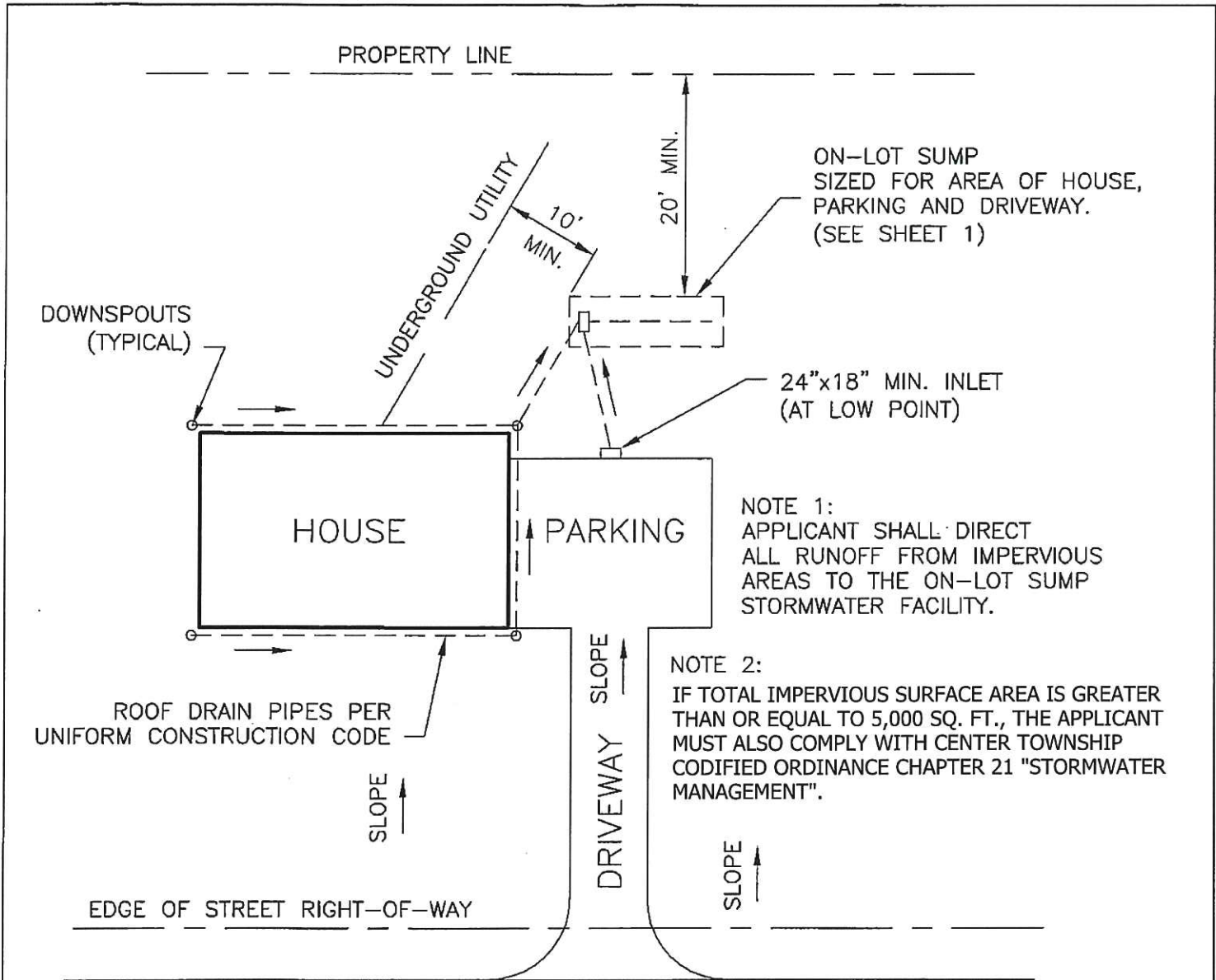
$$\frac{500}{25} = L$$

$$L = 20'$$

Check length to width ratio criteria:

$$L \geq 3 \times W$$

$$20 \geq 15 \checkmark$$



NOTE 1:
 APPLICANT SHALL DIRECT ALL RUNOFF FROM IMPERVIOUS AREAS TO THE ON-LOT SUMP STORMWATER FACILITY.

NOTE 2:
 IF TOTAL IMPERVIOUS SURFACE AREA IS GREATER THAN OR EQUAL TO 5,000 SQ. FT., THE APPLICANT MUST ALSO COMPLY WITH CENTER TOWNSHIP CODIFIED ORDINANCE CHAPTER 21 "STORMWATER MANAGEMENT".

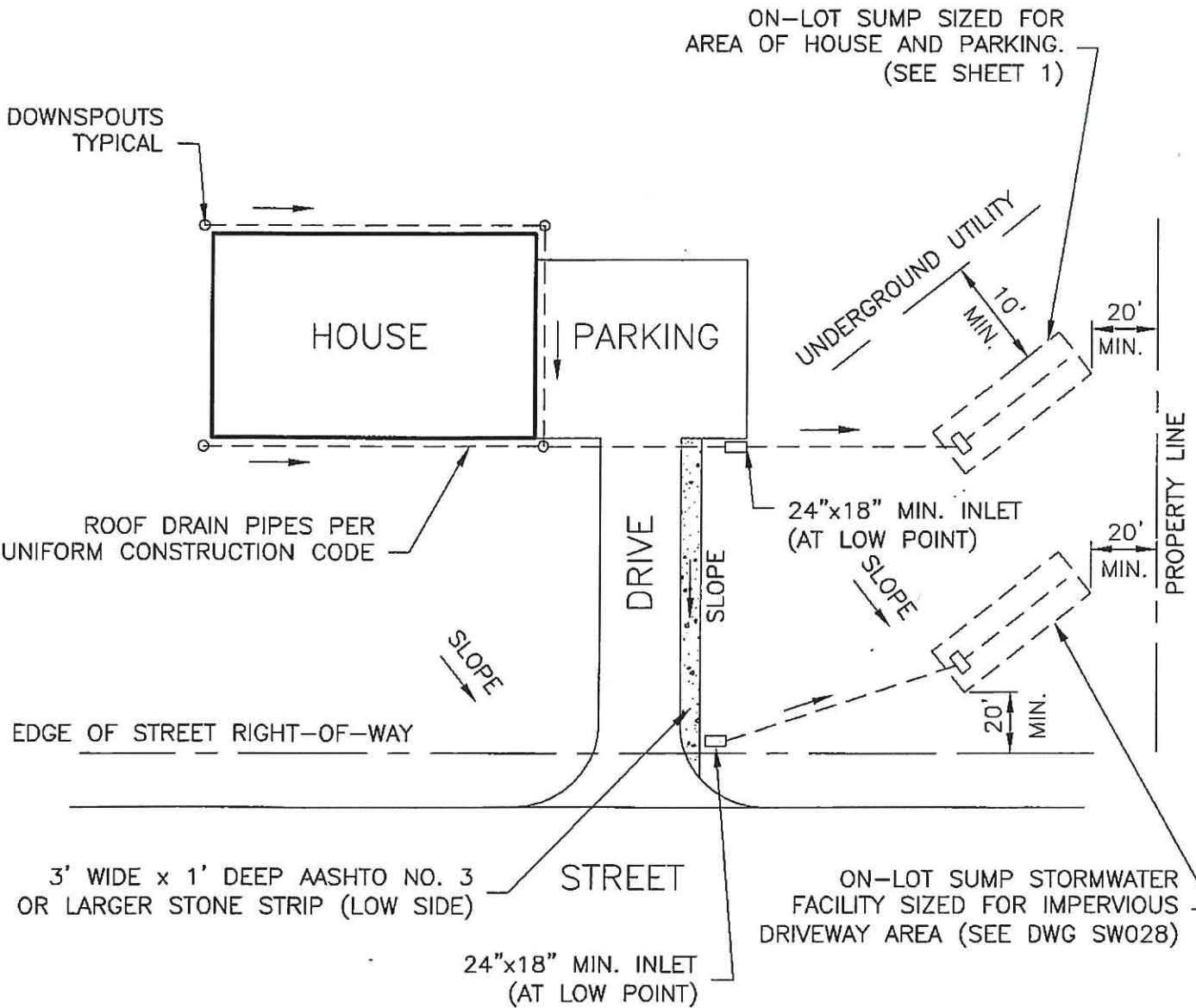
TYPICAL LOW SIDE LOT (RESIDENTIAL)

(NOT TO SCALE)

REV: 09-09-21

Center Township Standard Detail
 ON LOT STORMWATER DETENTION SUMP

SD23



NOTE 1:
 APPLICANT SHALL DIRECT
 ALL RUNOFF FROM IMPERVIOUS
 AREAS TO THE ON-LOT SUMP
 STORMWATER FACILITIES.

NOTE 2:
 IF TOTAL IMPERVIOUS SURFACE AREA IS GREATER
 THAN OR EQUAL TO 5,000 SQ. FT., THE APPLICANT
 MUST ALSO COMPLY WITH CENTER TOWNSHIP
 CODIFIED ORDINANCE CHAPTER 21 "STORMWATER
 MANAGEMENT".

NOTE:
 THIS DRAWING SHOWS A SITUATION WHERE THE APPLICANT HAS DETERMINED
 IT IS IN HIS BEST INTEREST TO INSTALL 2 SMALLER ON-LOT SUMPS RATHER
 THAN ONE LARGER FACILITY.

TYPICAL HIGH SIDE LOT--(RESIDENTIAL)

(NOT TO SCALE)

REV: 09-09-21

Center Township Standard Detail
 ON LOT STORMWATER DETENTION SUMP

SD24