

(1A) SITE PLAN - EROSION CONTROL AND PARTIAL UTILITY PLAN
3/16" = 1'-0"

0 4' 8' 12' N

QUAM ENGINEERING, LLC
Residential and Commercial Site Design Consultants

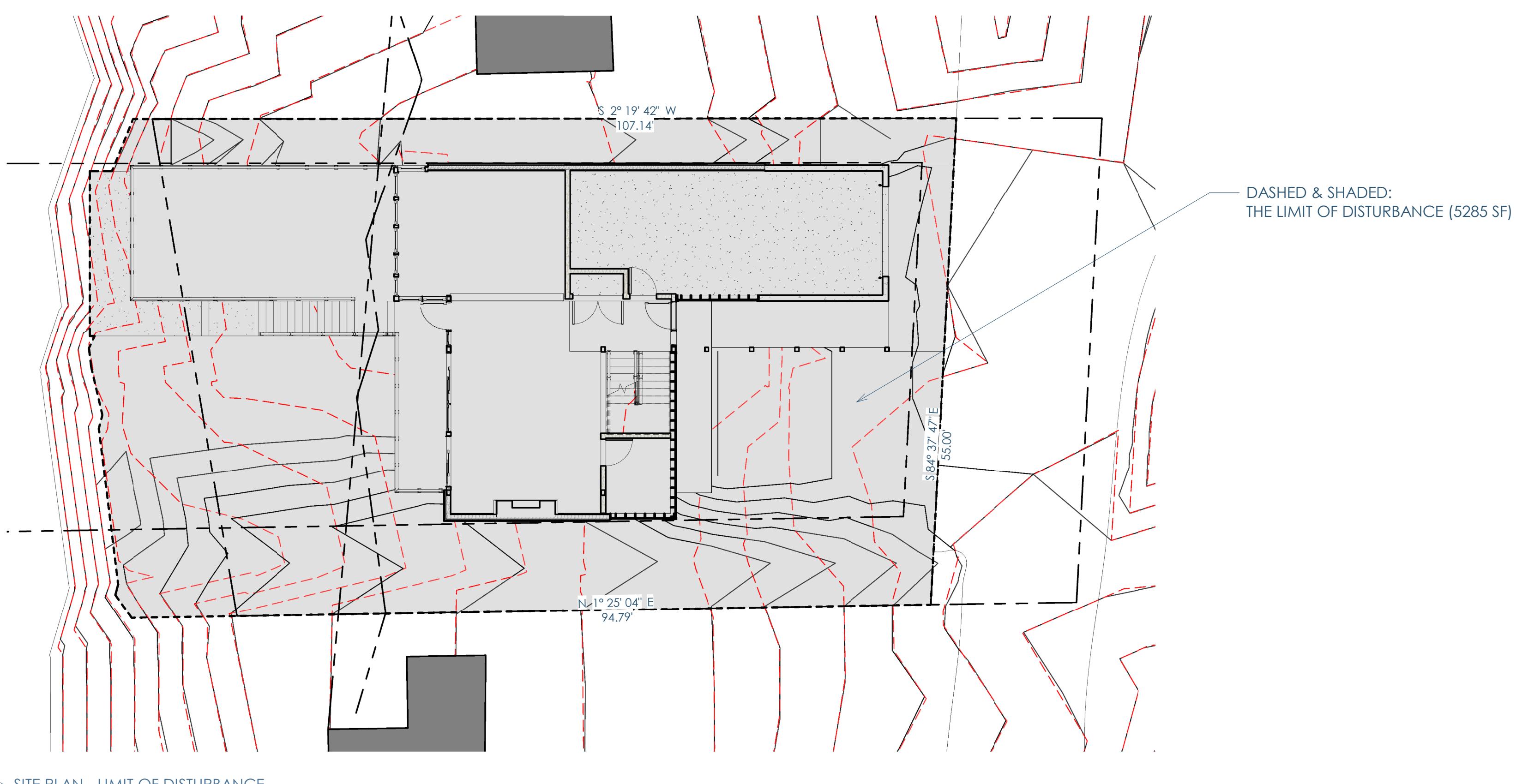
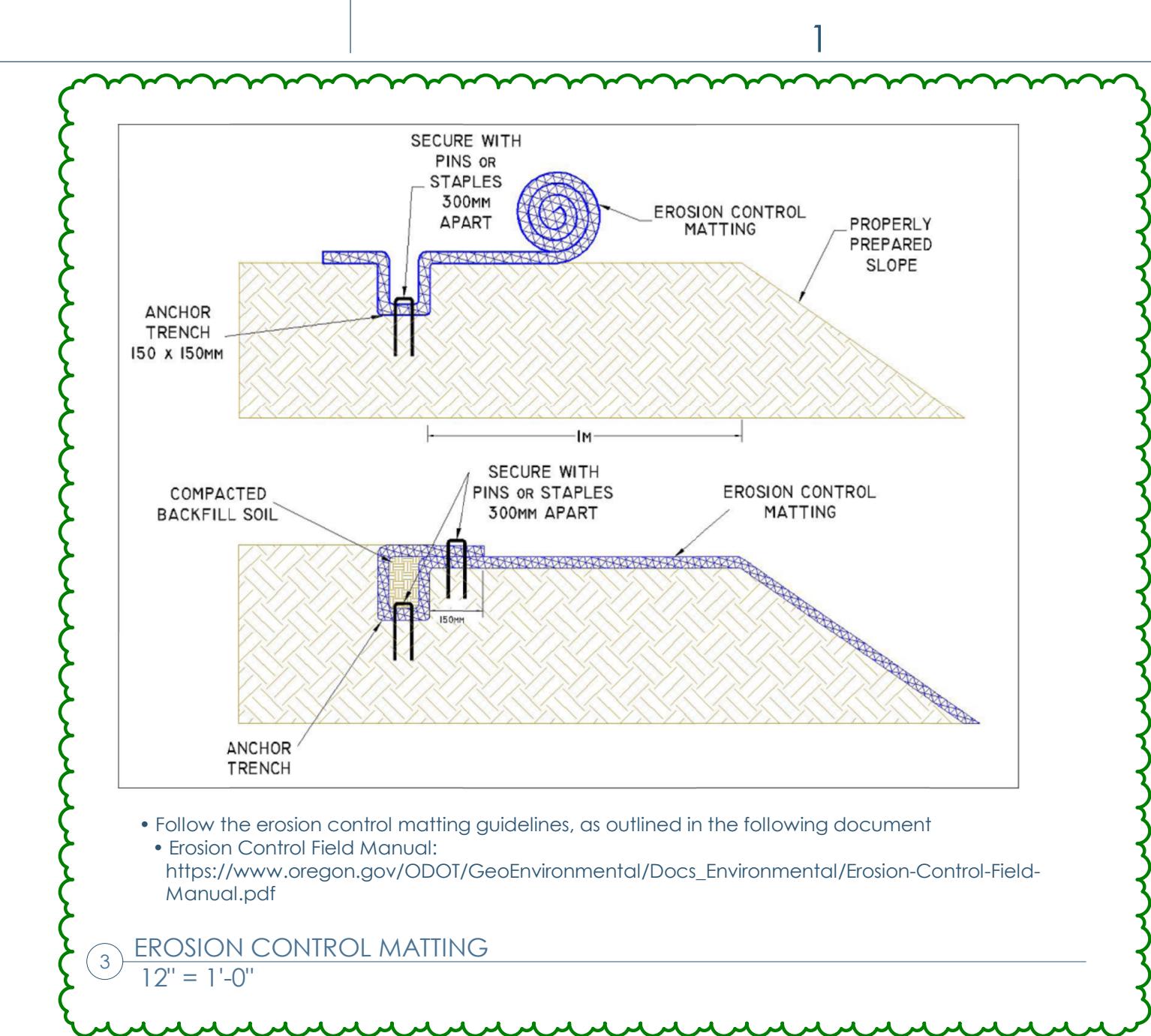
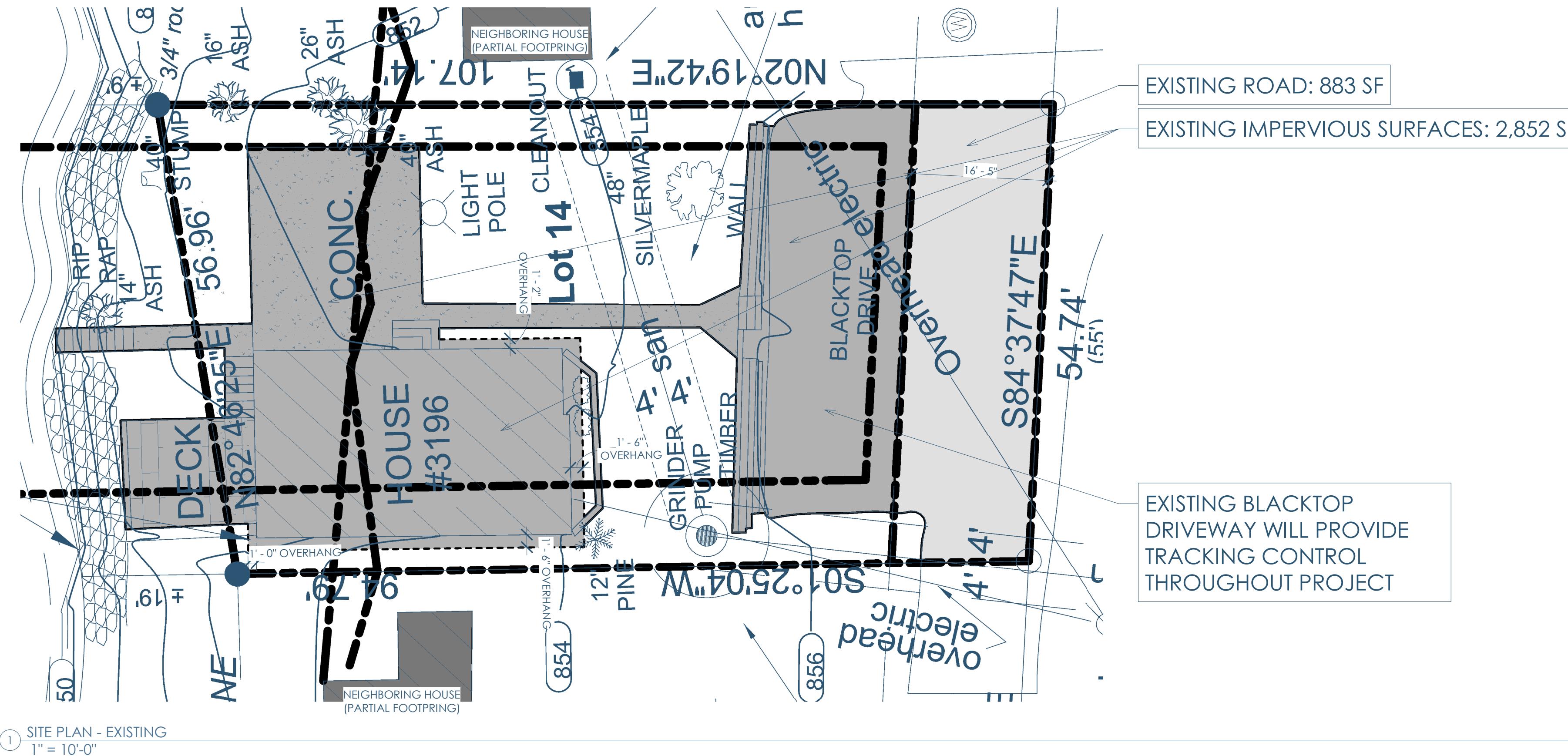
Civil Engineer: Quam Engineering, LLC
4604 Sigelkow Rd A
McFarland, WI 53558
rquam@quameengineering.com | 608-838-7750
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Architect: OpeningDesign
316 W Washington Ave | Suite 675
Madison, WI 53703
ryan@openingdesign.com | 773.425.6456
openingdesign.com

AALSETH RESIDENCE - 10/03/2018
3196 AALSETH LN - STOUGHTON, WI 53589
SITE PLAN - EROSION CONTROL AND PARTIAL UTILITY PLAN

A050



0 4' 8' 16' N

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3196 AALSETH LN - STOUGHTON, WI 53589
EXISTING SITE PLAN & LIMIT OF DISTURBANCE

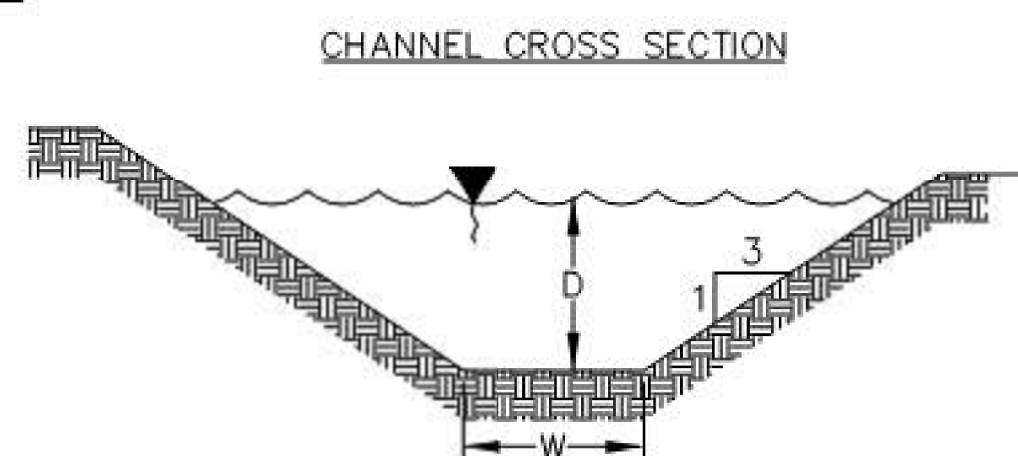
A051

**W.D.O.T. FACILITIES DEVELOPMENT MANUAL
EROSION MAT DESIGN**

Description:

Swale West.

Given:

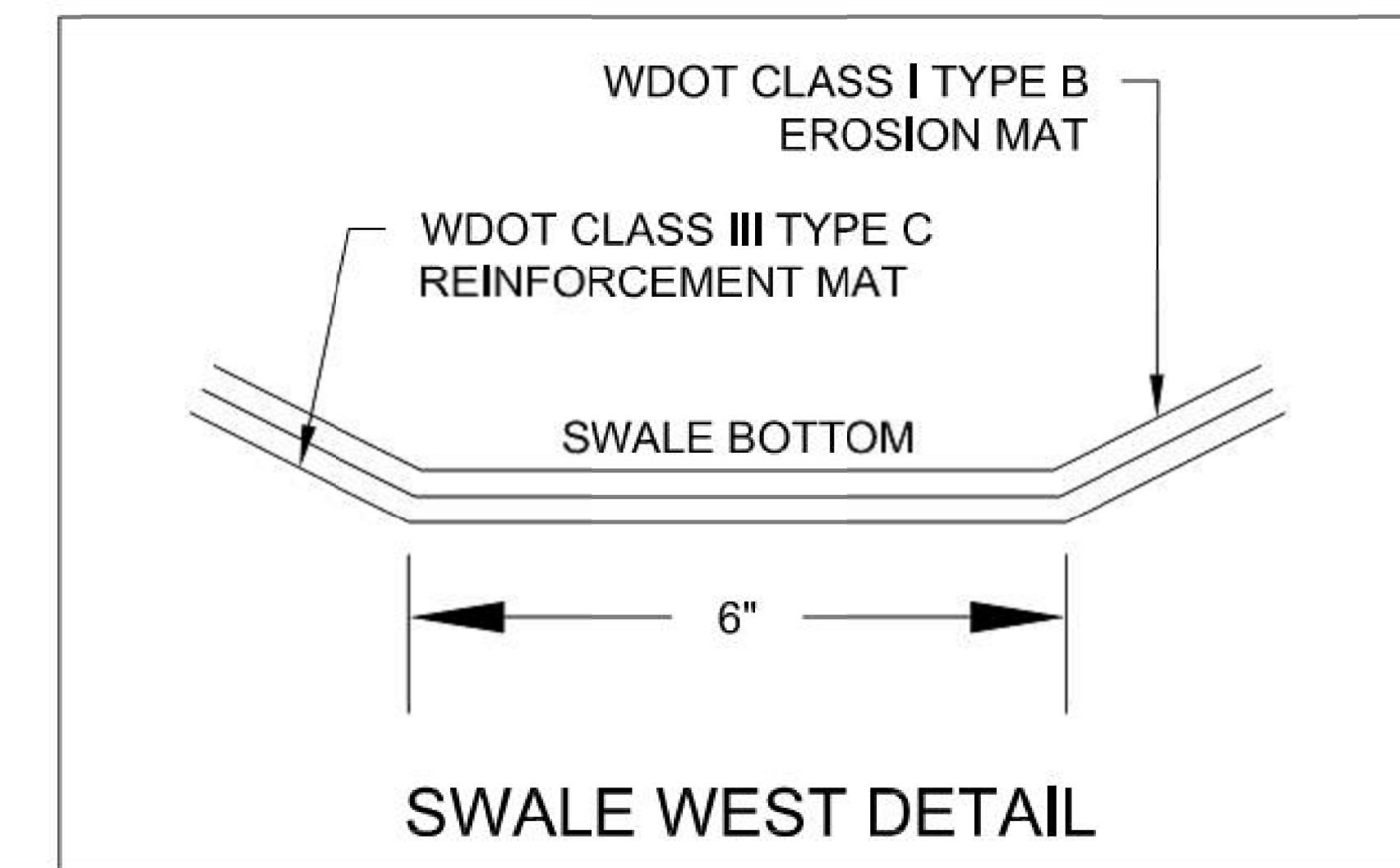


Width (W) = 0.5 feet
Depth (D) = 0.16 feet
Slope (s) = 0.223 ft/ft

Calculate maximum shear stress in the swale, τ_m :

$$\tau_m = \gamma ds = (62.4 \text{ lb}/\text{ft}^2)(0.16 \text{ ft})(0.223 \text{ ft}/\text{ft}) = 2.23 \text{ lb}/\text{ft}^2$$

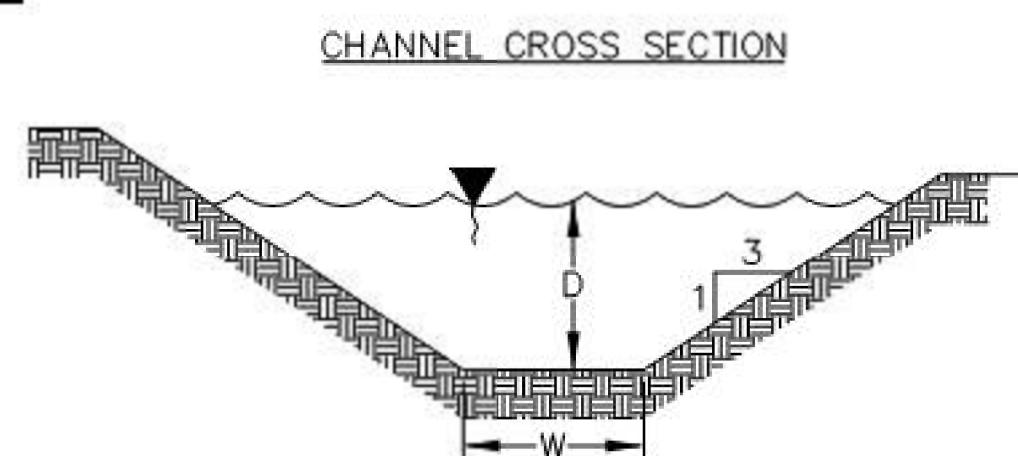
Use WDOT Class I Type B Erosion Mat over Class III Type C reinforcement. ($3.5 > 2.23 \text{ lb}/\text{ft}^2$)
(Per FDM 10-5 Attachment 35.1 Channel Erosion Matrix)



Description:

Swale East

Given:

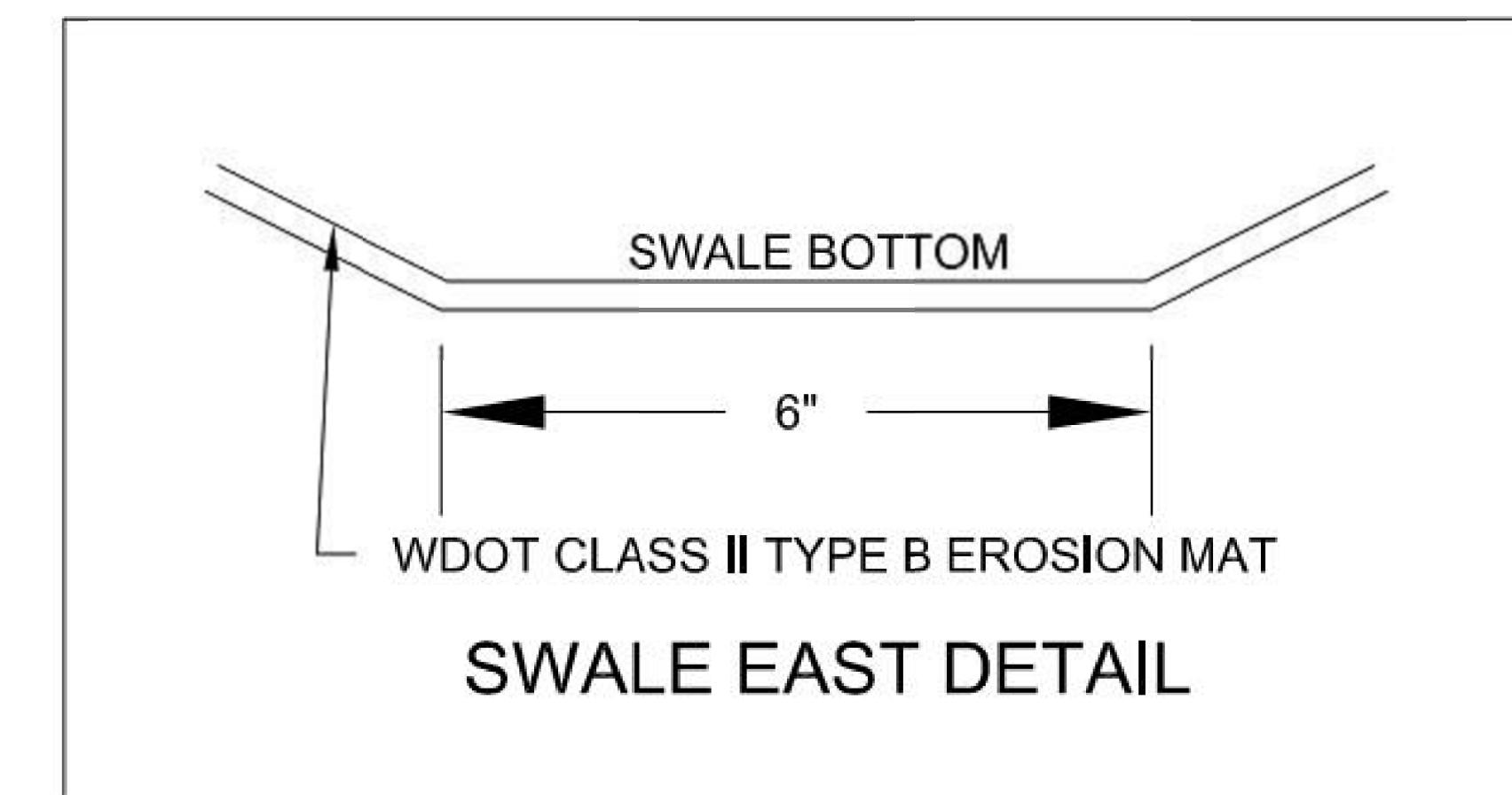


Width (W) = 0.5 feet
Depth (D) = 0.17 feet
Slope (s) = 0.161 ft/ft

Calculate maximum shear stress in the swale, τ_m :

$$\tau_m = \gamma ds = (62.4 \text{ lb}/\text{ft}^2)(0.17 \text{ ft})(0.161 \text{ ft}/\text{ft}) = 1.69 \text{ lb}/\text{ft}^2$$

Use WDOT Class II Type B Erosion Mat. ($2.0 > 1.69 \text{ lb}/\text{ft}^2$)
(Per FDM 10-5 Attachment 35.1 Channel Erosion Matrix)



Erosion Control and Stormwater Management Report
OD-03-18
10/2/2018

Exhibit 5

5

4

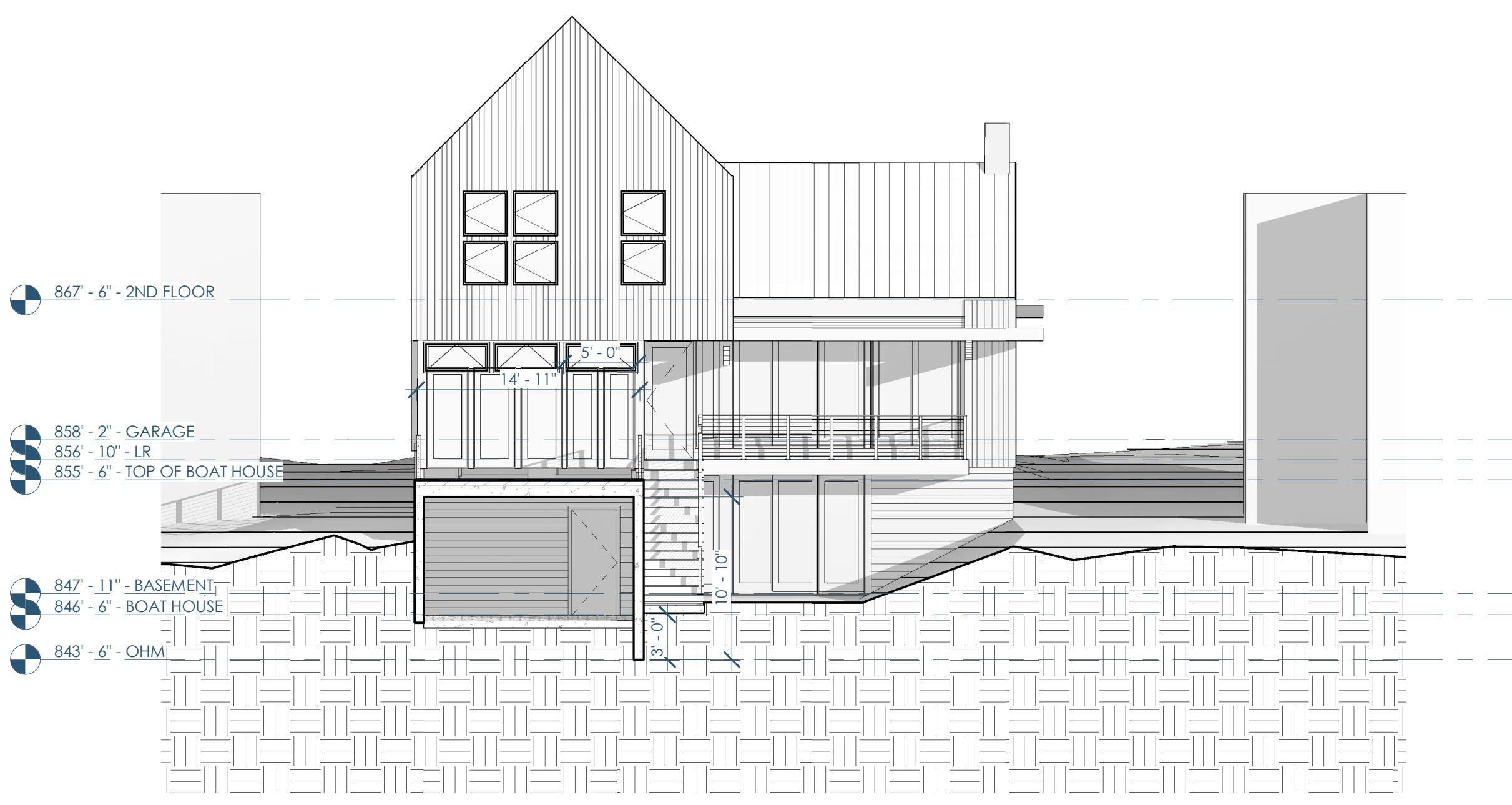
3

2

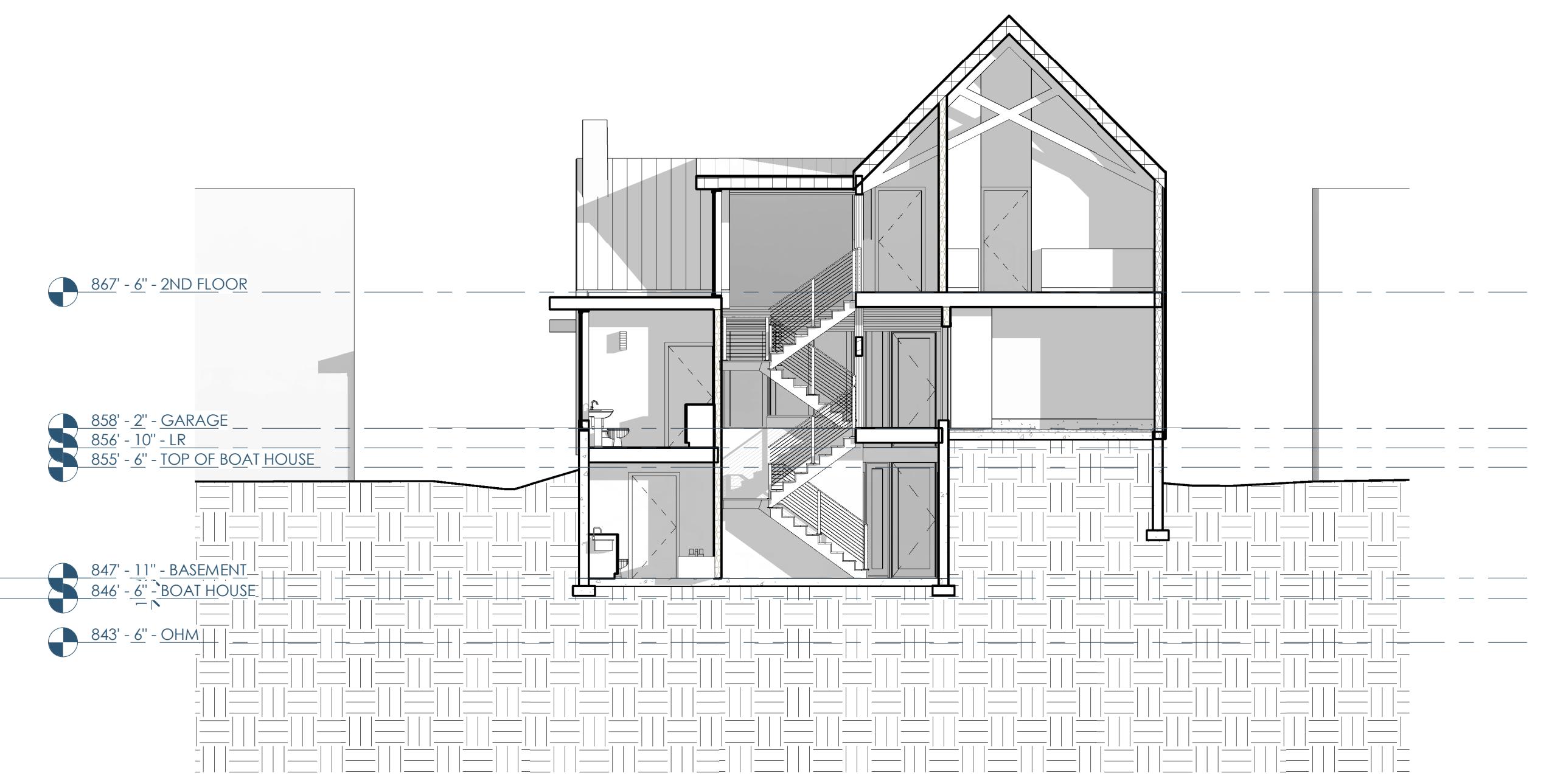
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C

C



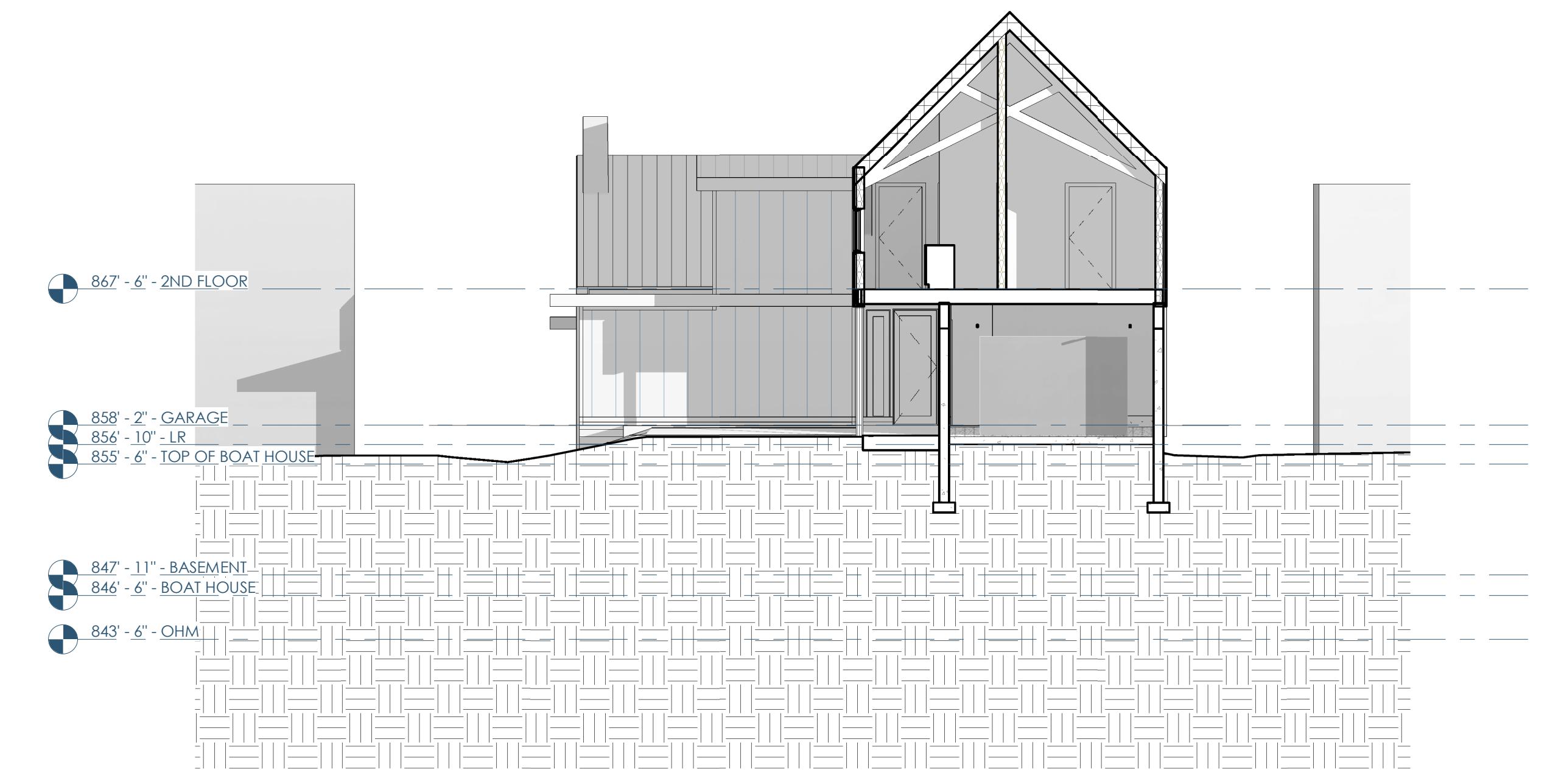
① Section 23
1/8" = 1'-0"



② Section 34
1/8" = 1'-0"

B

B



③ Section 38
1/8" = 1'-0"