AvantiGroup
consulting engineers

ROOFING CALCULATIONS WORKSHEET

Client: _____

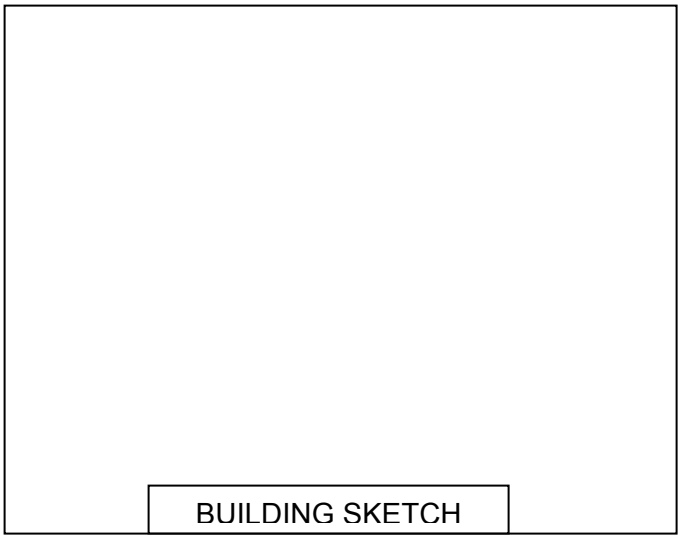
Project: _____

Project Location
(City & State): _____

Date: _____

Date Due: _____

Notes:
Please provide sketch of building showing building dimensions, eave height, and roof pitch.



Panel Information:

Roof Panels:

☐ Standing seam type_____

☐ Screw down type_____

Gauge _____

Width _____

☐ galv./prefinished ☐ aluminum

substrate: ☐ metal decking [ga._____]

☐ plywood [Thickness_____]

☐ light ga. trusses or purlins
(assume 18 ga. unless noted otherwise)

☐ metal building purlins (assume 16 ga.)

Wall Panels:

☐ Standing seam type_____

☐ Screw down type_____

Gauge _____

Width _____

☐ galv./prefinished ☐ aluminum

Substrate: ☐ plywood [thickness_____]

☐ light ga. trusses or purlins
(assume 18 ga. unless noted otherwise)

☐ metal building girts (assume 16 ga.)

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Soffit Panels:

☐ Standing seam type_____

☐ Screw down type_____

Gauge _____

Width _____

☐ galv./prefinished ☐ aluminum

Substrate: ☐ plywood [thickness_____]

☐ light ga. trusses or purlins
(assume 18 ga. unless noted otherwise)

☐ metal building girts (assume 16 ga.)

Structural Decking:

Type_____ Gauge_____ Coverage_____

Structure: ☐ steel bar joists [spacing_____ or see plan attached]

☐ light ga. trusses or purlins
(assume 18 ga. unless noted otherwise)

☐ metal building purlins (assume 16 Ga.)

Diaphragm required _____ plf (refer to EOR roofing framing plan, structural notes, or specifications)

Wind Loading:

☐ Wind pressures provided by EOR (see attached or recap below)
Note to use wind pressures stated for less than 10 SF.

Roof (psf)		Walls/Soffit (psf)	
Field		Field	
Edge		Edge	
Corner			

Or provide specified loading:

Wind Speed: 110 120 130 other_____ (circle one)

Importance Factor: 1.0 1.15 other_____ (circle one)

Exposure Category: A B C D (circle one)

Enclosure Classification: enclosed (GCpi = 0.18) open (GCpi = 0.0) partially enclosed (GCpi = 0.55) (circle one)

Mean Roof Height _____ Roof Slope ____ per foot

DOC: S:\Letters\roofing calcs\roofing calcs worksheet.doc

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