



National Institute of  
**BUILDING SCIENCES**

*An Authoritative Source of Innovative Solutions  
for the Built Environment*

**Building Seismic Safety Council**

# IT-2 Report


12/5/2018

**PUC Meeting**

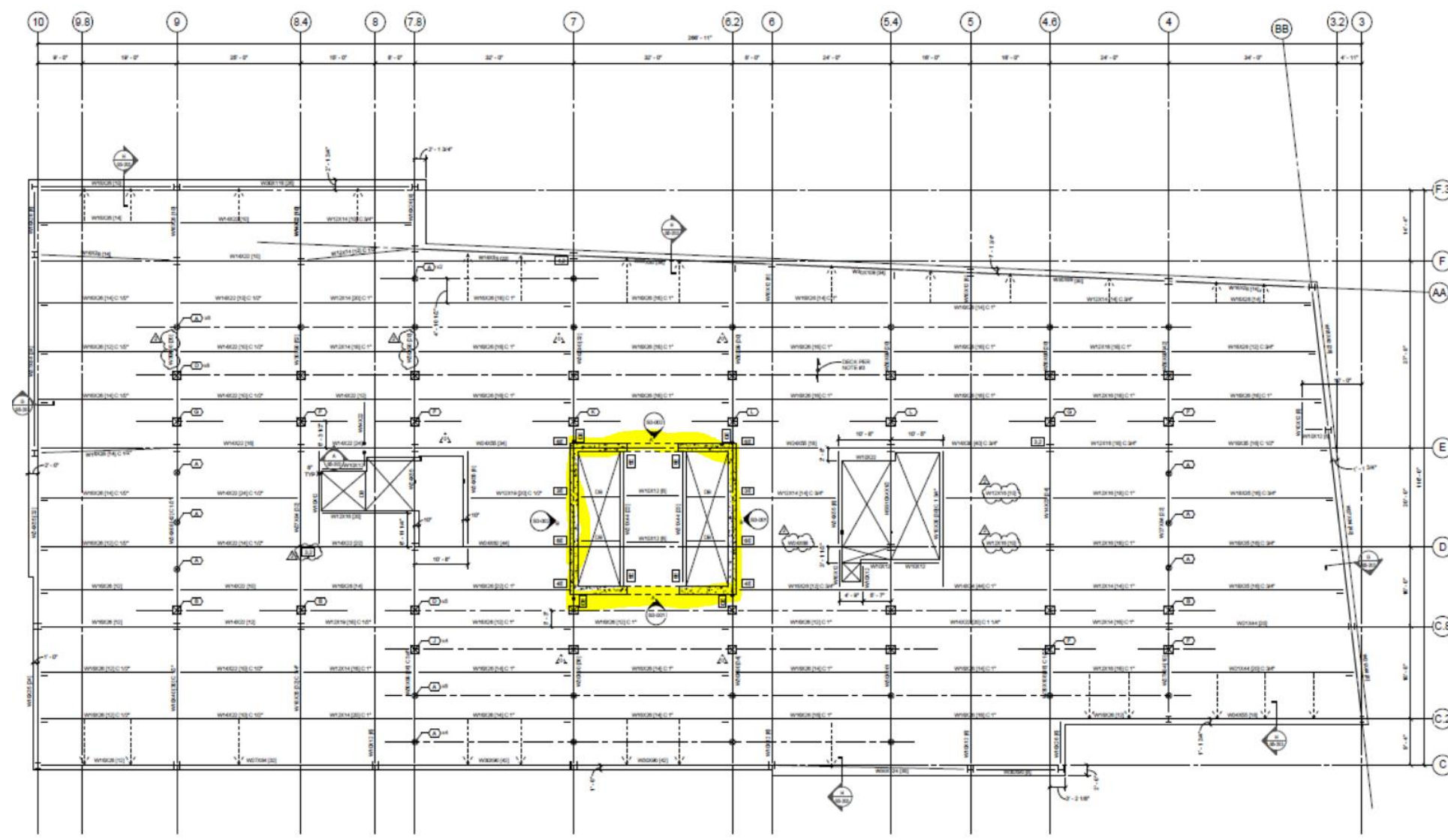
San Francisco, CA



**FEMA**

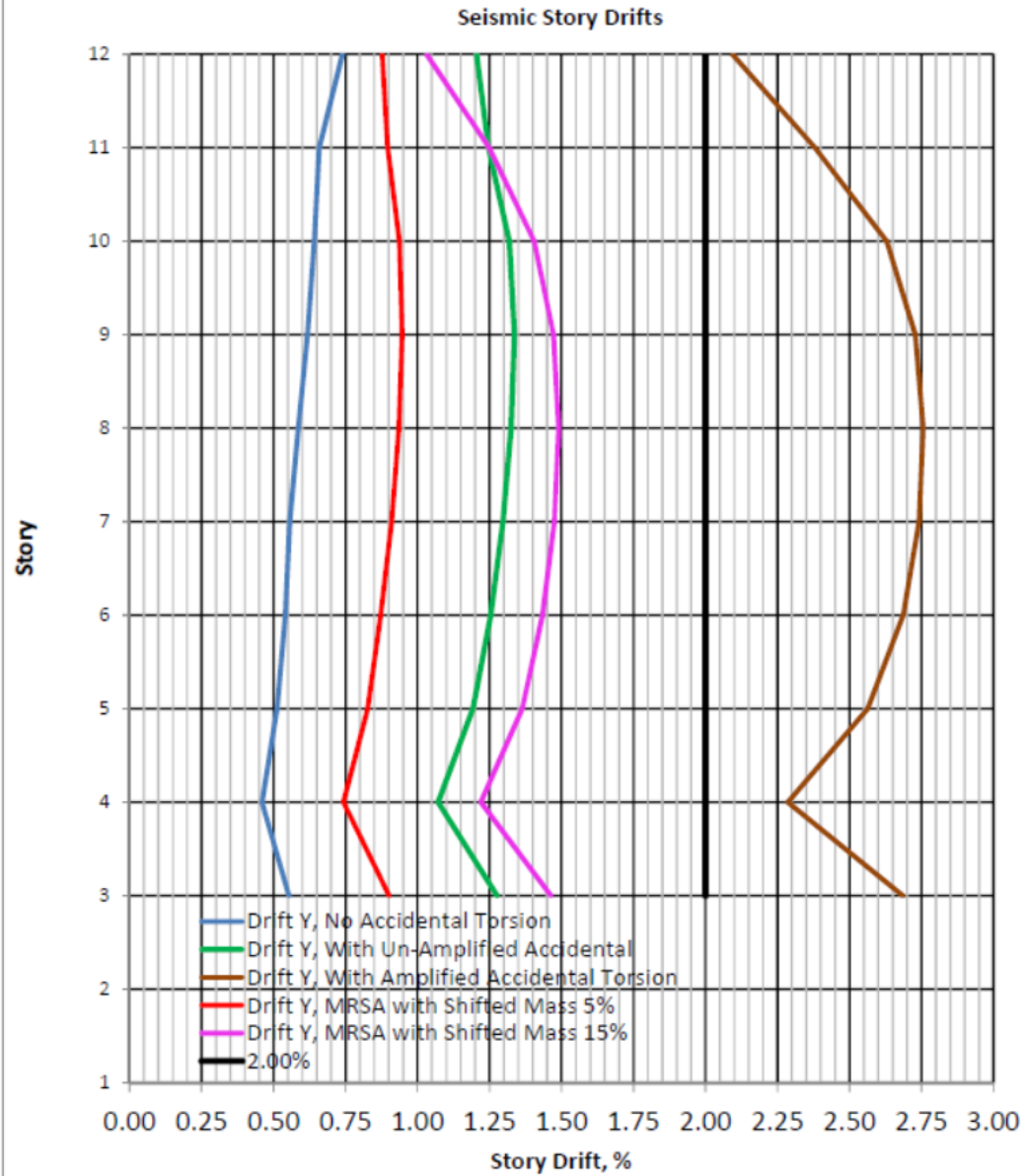
- 
- Emergency ASCE 7-16 Supplement #2

# THE MOTIVATION



# THE MOTIVATION

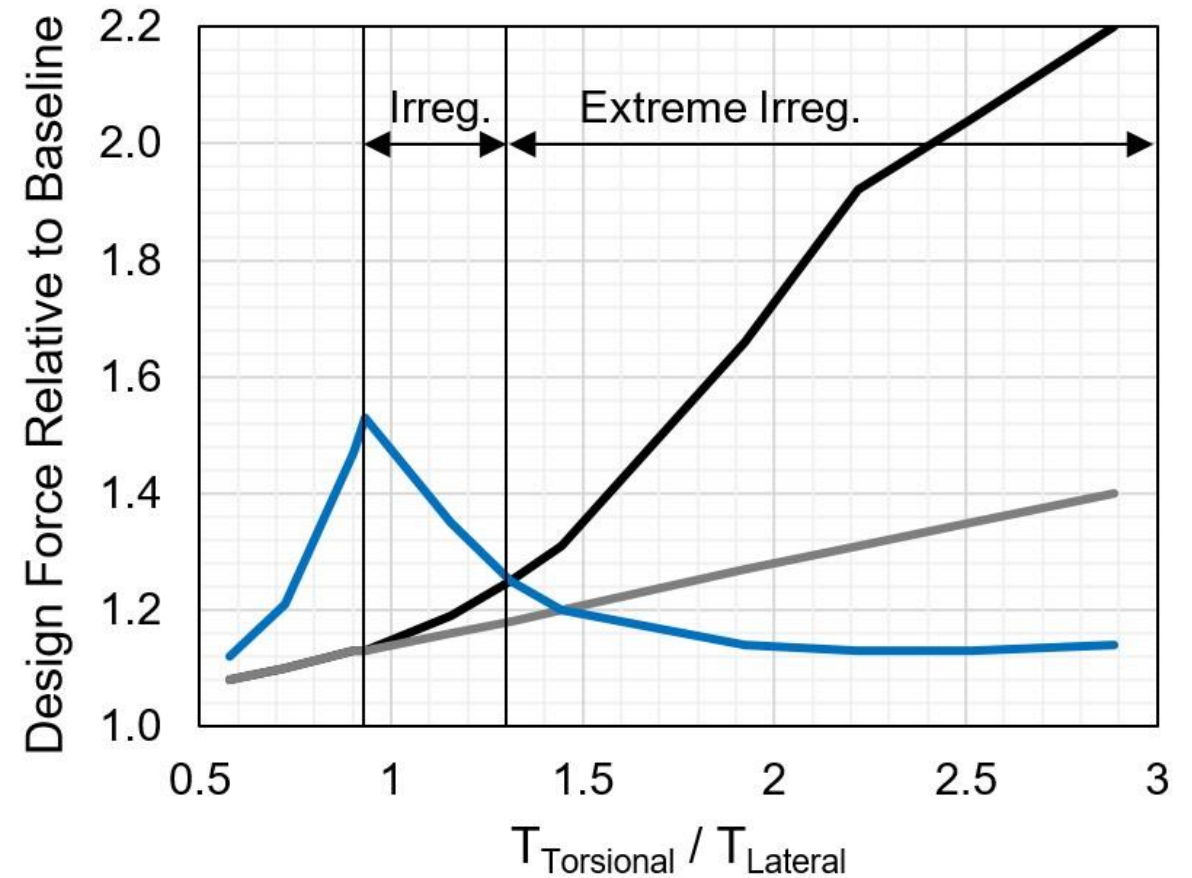
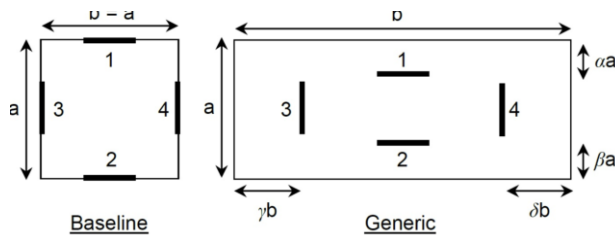
— Drift Y, No Accidental Torsion  
— Drift Y, With Un-Amplified Accidental  
— Drift Y, With Amplified Accidental Torsion  
— Drift Y, MRSA with Shifted Mass 5%  
— Drift Y, MRSA with Shifted Mass 15%  
— 2.00%



August 6, 2018

# WALL DESIGN FORCE STATIC VS. DYNAMIC OFFSET

2:1 PLAN ASPECT RATIO,  
SYMMETRICAL LAYOUT

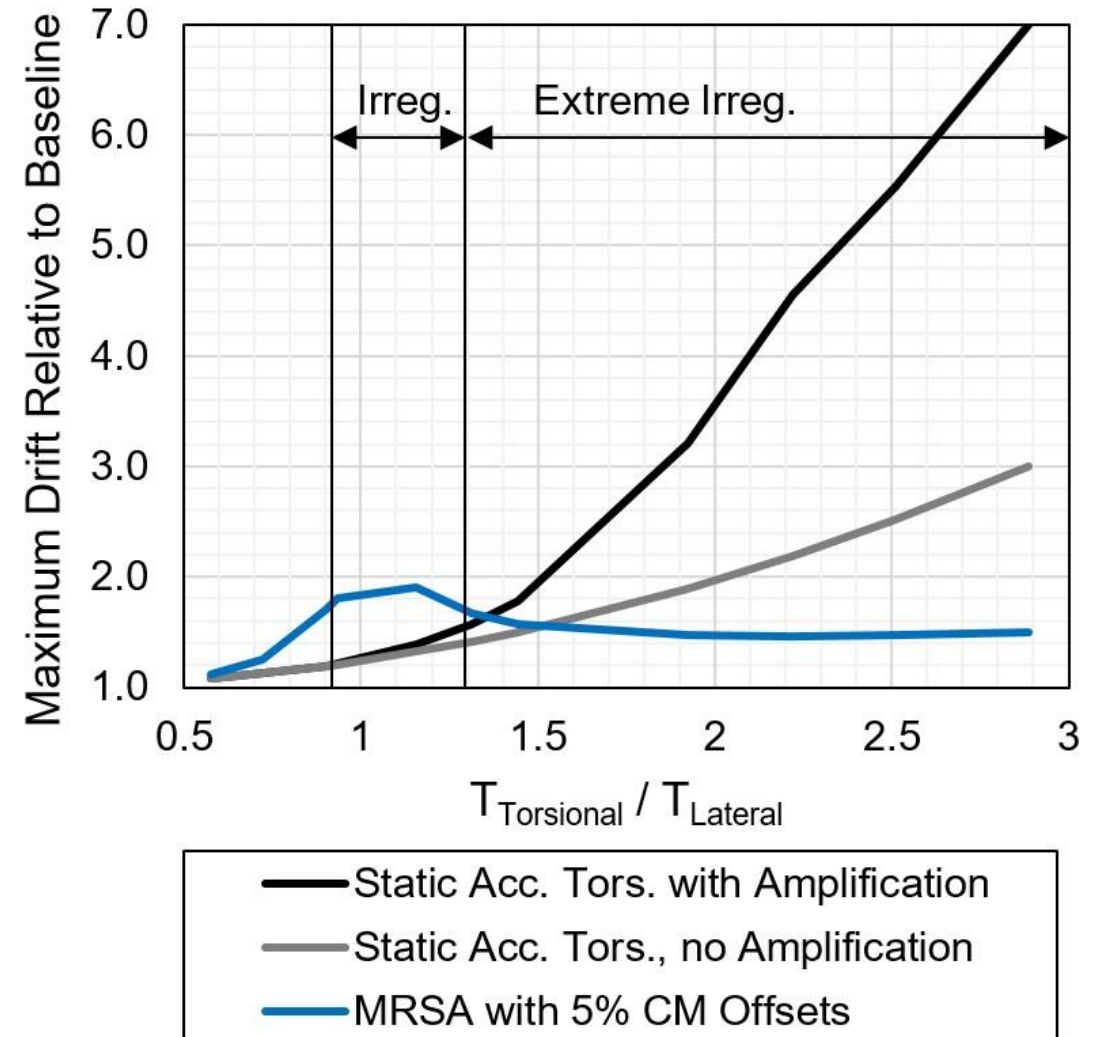
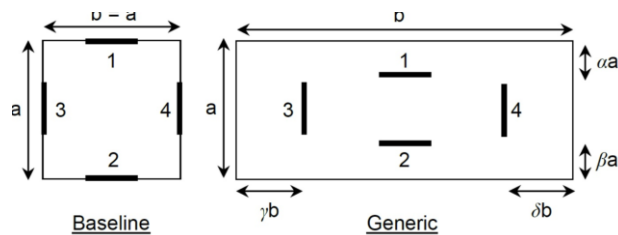


- Static Acc. Tors. with Amplification
- Static Acc. Tors., no Amplification
- MRSA with 5% CM Offsets

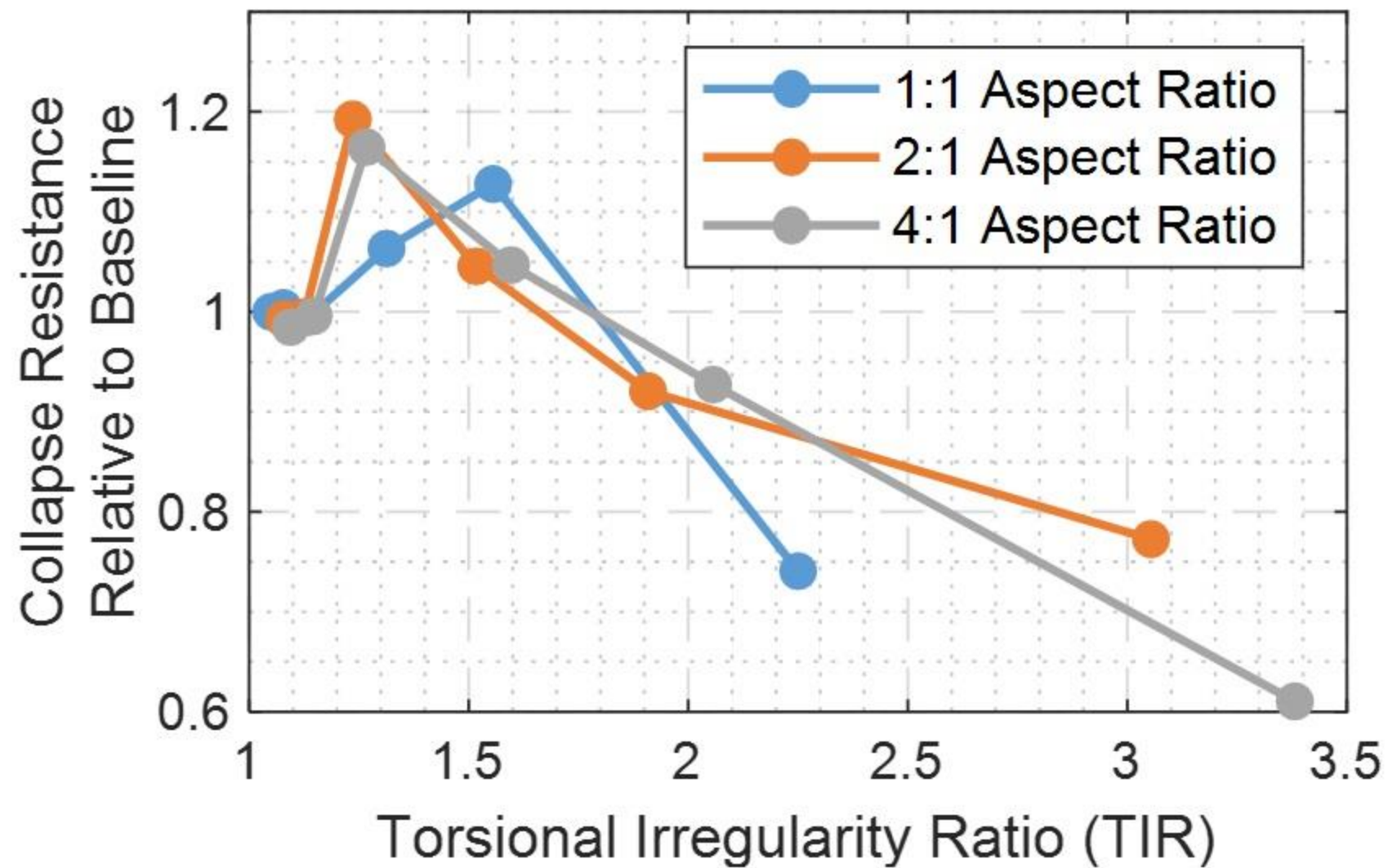


# DRIFT STATIC VS. DYNAMIC OFFSET

2:1 PLAN ASPECT RATIO,  
SYMMETRICAL LAYOUT



# DYNAMIC OFFSET METHOD



# STATIC OFFSET METHOD

