

Exist. 20" Steel Joist = 20 L 10

**PART PLAN - ART SUPPORT FRAMING / EXIST. ROOF FRAMING**  
Scale: 1/4" = 1'-0"



**STRUCTURAL DESIGN CRITERIA:**

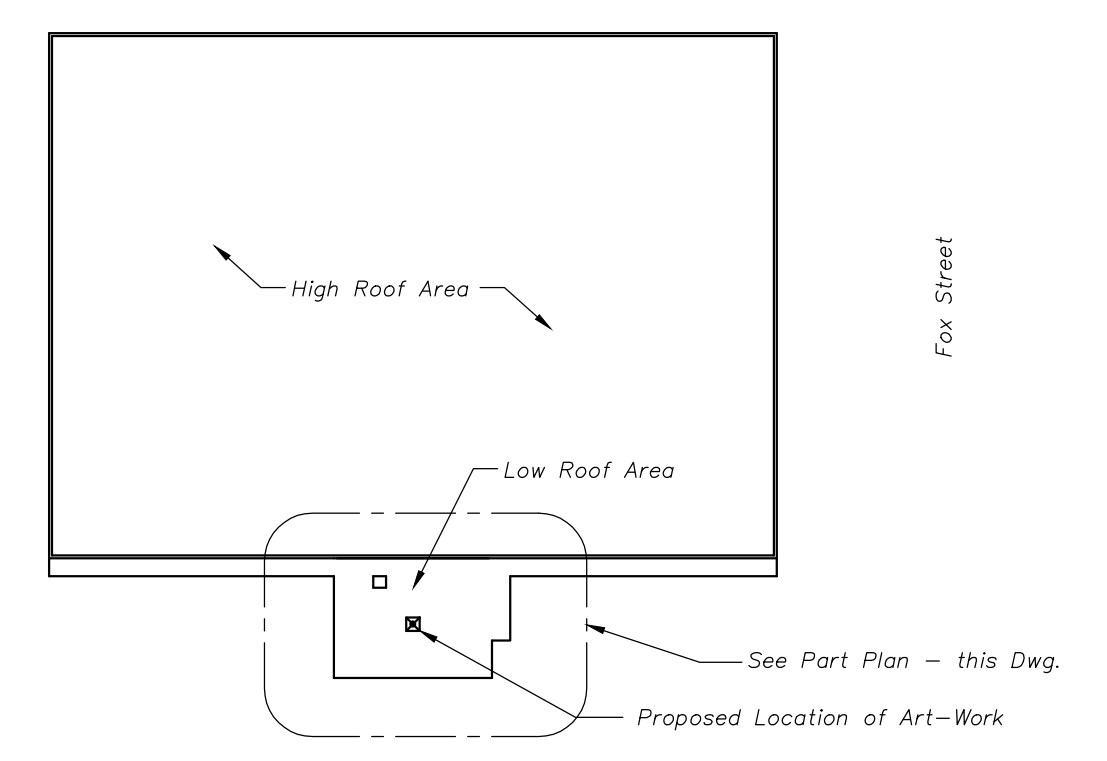
1. BUILDING CODE: 2009 EDITION OF THE INTERNATIONAL BUILDING CODE.
2. DESIGN WIND LOAD - ART SCULPTURE SUPPORT FRAMING  
DESIGN WIND SPEED = 100 MPH  
IMPORTANCE FACTOR  $I_w = 1.1$   
EXPOSURE CATEGORY = B
3. SNOW: GROUND SNOW LOAD = 60 PSF  
IMPORTANCE FACTOR  $I_s = 1.0$   
EXPOSURE FACTOR,  $C_e = 0.7$   
FLAT ROOF SNOW LOAD = 42 PSF + DRIFT
4. ART SCULPTURE SELF-WEIGHT = 600 LBS.
5. NEW SUPPORT FRAMING DESIGNED AS BALLAST TO RESIST OVERTURNING AND SLIDING FORCES FROM WIND LOADS, AND TO SPREAD THE WIND LOAD AND DEAD LOADS TO THE EXISTING ROOF STRUCTURE WITHOUT OVER-STRESS, IN COMBINATION WITH SNOW LOADS PER IBC.

**GENERAL NOTES:**

1. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
2. THE SUPPORT STRUCTURE IS DESIGNED TO RESIST WIND LOADS TRANSFERRED FROM THE ART-SCULPTURE. THIS DESIGN IS NOT FOR THE SCULPTURE ITSELF.
3. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

**STRUCTURAL STEEL NOTES - GENERAL:**

1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL" 9th EDITION.
2. ALL STEEL WIDE FLANGE SHAPES TO BE A572/A992 50 KSI AND STEEL PLATES TO BE ASTM A36 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPES SHALL BE A53, GRADE B.
5. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4"Ø ASTM A325 HIGH STRENGTH BOLTS.
6. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 - LATEST EDITION. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES.
7. STRUCTURAL STEEL SHALL BE PAINTED WITH A SHOP APPLIED COAT OF THE FABRICATOR'S RUST INHIBITIVE PRIMER AND A FINISH TOP COAT OF TNEDEC.
8. SUBMIT COMPLETE STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION.

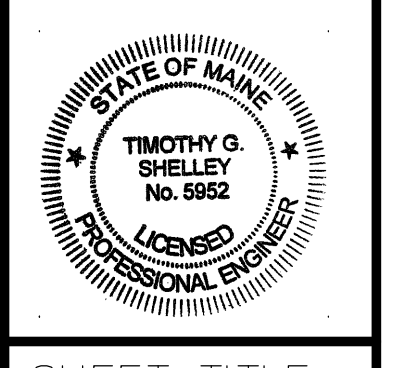


**KEY PLAN**

Shelley Engineering, Inc.  
Structural Consultants  
P.O. Box 1030  
Gray, Maine 04039  
Phone (207) 657-8031  
www.ShelleyEngineering.com

Permit	9/30/14
Designed By:	TGS
Drawn By:	TGS

ROOF TOP  
ART WORK SUPPORT  
Coffee By Design  
Portland  
ME



SHEET TITLE:  
PLANS  
NOTES