

**Mail, Fax or Email the Following Building Survey to:**

**Louie Yaw  
Walla Walla College  
Engineering Department  
204 South College Ave.  
College Place, WA 99324**

**Office Phone(509) 527-2081  
Fax Phone (509) 527-2867**

**Email YAWLOU@WWC.EDU**

**Instructions/Observations:**

- **Do your best to fill out the survey.**
- **If you do not know how to answer, indicate “unknown at present”**
- **I understand that some of the information is unknown, unavailable, answerable by others or up for discussion. Please indicate who has such information if it is available or how the information may be obtained.**
- **It is better to communicate with the contractor up front and learn how he/she prefers to do construction, rather than doing an engineering design blindly. Doing the coordination up front, rather than after the fact will save time and money. As an engineer, I prefer to work closely with the contractor, this is my motivation for the survey. This survey is a preliminary chance for you to communicate with me and state your preferences and methods of construction that make your job easier. I prefer to do what the contractor wants, so long as I am able to do so according to the building code and the requirements of the local building official(s).**
- **Please fill out this survey carefully. I do not expect the information provided to be perfect or final answers. I recognize that every project has changes throughout. However, minimizing changes and clearly communicating is beneficial to everyone.**
- **Feel free to attach comments or any other relevant information not included in the survey.**

**Sincerely,**

**Louie L. Yaw, P.E., S.E.**

### Project Contact Information

	Name	Address	Phone	Fax	Email
Project Manager					
Contractor					
Soils Engineer					
Architect					
Building Dept.					
Mechanical Engineer					
Electrical Engineer					
Bldg Materials Supplier					
Other					

Building Site Address:

\_\_\_\_\_

\_\_\_\_\_

County \_\_\_\_\_

Building Site Parcel Number

\_\_\_\_\_

Building Site Flood Susceptibility  
Explanation \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Survey of Building Parameters

1. Roof

- Roofing(Check one)

Metal \_\_\_\_\_

Shingle \_\_\_\_\_

Gravel \_\_\_\_\_

Other \_\_\_\_\_

### Summary of Roof Loads

Example:	Actual Summary (please list)
Roofing	_____
Plywood	_____
Roof Framing	_____
Ceiling	_____
Lighting	_____
Insulation	_____
Sprinklers	_____
Mechanical	_____
Other	_____

- Type of roof system(Check One)

Metal roof system \_\_\_\_\_

Panelized (Timber) roof system \_\_\_\_\_

Concrete on metal deck \_\_\_\_\_

Other \_\_\_\_\_

- Roof framing (Check One)

Lt. Gage Purlins & Steel Girders \_\_\_\_\_

Steel Joists & Steel Girders \_\_\_\_\_

Steel Trusses \_\_\_\_\_

2x4 Sub-Purlins, 4x Purlins(or TJI),  
Glu-lam Beams \_\_\_\_\_

Timber Trusses \_\_\_\_\_

Other \_\_\_\_\_

2. Floors

- Flooring (Check One)

Plywood \_\_\_\_\_  
Concrete on Metal Deck \_\_\_\_\_  
Concrete \_\_\_\_\_  
Other \_\_\_\_\_

- Floor Framing (Check One)

2x Joists, Glulam Beams \_\_\_\_\_  
TJI Joists, Glulam Beams \_\_\_\_\_  
Steel Joists, Steel Girders \_\_\_\_\_  
Steel Beams, Steel Girders \_\_\_\_\_  
Concrete Joists, Concrete Beams \_\_\_\_\_  
Other \_\_\_\_\_

- Summary of Floor Loads

Example:

Actual Summary  
(Please List)

Carpet	_____
Padding	_____
Plywood	_____
Floor Framing	_____
Ceiling Below	_____
Lighting	_____
Sprinklers	_____
Mech.	_____
Insulation	_____
Other	_____

3. Ceiling Material (Check One)

Sheetrock \_\_\_\_\_  
Light Weight T-bar Ceiling \_\_\_\_\_  
Heavy Weight T-bar Ceiling \_\_\_\_\_  
Other \_\_\_\_\_

4. Walls (Check One)

- 2x4 Stud Walls \_\_\_\_\_
- Masonry \_\_\_\_\_
- Metal Stud Walls \_\_\_\_\_
- Concrete Walls \_\_\_\_\_
- Concrete Tilt-up Walls \_\_\_\_\_
- Metal Siding w/Girts \_\_\_\_\_

Exterior Siding(Please Describe, i.e. stucco, T-111, Metal, brick façade,...)

\_\_\_\_\_  
\_\_\_\_\_

5. Vertical Load System (Check One)

- Steel Frame, Steel Columns \_\_\_\_\_
- Concrete Frame, Concrete Columns \_\_\_\_\_
- Wood Framing on Steel Columns \_\_\_\_\_

[Bearing Walls]

- 2x4 Stud Wall \_\_\_\_\_
- Steel Stud Wall \_\_\_\_\_
- Masonry Wall \_\_\_\_\_
- Concrete Wall \_\_\_\_\_

6. Lateral Load System

North South(Check One):

- Steel Moment Frame \_\_\_\_\_
- Conc. Moment Frame \_\_\_\_\_
- Plywood Shear Walls \_\_\_\_\_
- Concrete Shear Walls \_\_\_\_\_
- Masonry Shear Walls \_\_\_\_\_
- Steel Braced Frame \_\_\_\_\_
- Steel Rod Bracing \_\_\_\_\_
- Other \_\_\_\_\_

East West(Check One):

- Steel Moment Frame \_\_\_\_\_
- Concrete Moment Frame \_\_\_\_\_
- Plywood Shear Walls \_\_\_\_\_
- Concrete Shear Walls \_\_\_\_\_
- Masonry Shear Walls \_\_\_\_\_
- Steel Braced Frame \_\_\_\_\_
- Steel Rod Bracing \_\_\_\_\_
- Other \_\_\_\_\_

7. Foundations(Check One)

Spread Footings \_\_\_\_\_  
Continuous Footings \_\_\_\_\_  
Mat Foundation \_\_\_\_\_  
Piers \_\_\_\_\_  
Other \_\_\_\_\_

8. Ground Floor(Check One)

Slab on Grade \_\_\_\_\_  
Raised Floor System \_\_\_\_\_  
Other \_\_\_\_\_

9. Interior Structures

Mezzanine \_\_\_\_\_  
Balcony \_\_\_\_\_  
Stage \_\_\_\_\_  
Other \_\_\_\_\_

10. Equipment (Heavy)

Mechanical – HVAC, etc.  
Location \_\_\_\_\_  
  
Other  
Location \_\_\_\_\_

11. Wind

Wind Speed \_\_\_\_\_ mph  
Exposure \_\_\_\_\_

12. Earthquake

Zone \_\_\_\_\_

13. Snow

Ground Snow Load \_\_\_\_\_ psf

14. Soils Information

Allowable Bearing Pressure \_\_\_\_\_ psf  
(DL+LL)

Depth to Groundwater \_\_\_\_\_ ft  
Depth to Bedrock \_\_\_\_\_

Topography

Flat \_\_\_\_\_  
Sloping \_\_\_\_\_  
Other \_\_\_\_\_

Clay content High/Low?  
Location of Deep Excavations, Locations of Fill

15. Retaining Structures

Yes \_\_\_\_\_  
Location \_\_\_\_\_

No \_\_\_\_\_

16. Preferred Manufacturers

Engineered Wood Products(Check One)  
Truss/Joist MacMillan \_\_\_\_\_  
Other \_\_\_\_\_

Wood Fasteners(Check One)  
Simpson \_\_\_\_\_  
Other \_\_\_\_\_

Anchor Bolts(Check One)  
Hilti \_\_\_\_\_  
Simpson \_\_\_\_\_  
Ramset/Red Head \_\_\_\_\_  
Other \_\_\_\_\_

Concrete and/or Epoxy Products(Check One)

- Hilti \_\_\_\_\_
- Simpson \_\_\_\_\_
- Ramset/Red Head \_\_\_\_\_
- Burke \_\_\_\_\_
- Other \_\_\_\_\_

Light Gage Metal Products(Check One)

- IMSA Building Products \_\_\_\_\_
- Butler \_\_\_\_\_
- Other \_\_\_\_\_

Metal Studs(Check One)

- Dietrich \_\_\_\_\_
- Angeles \_\_\_\_\_
- Other \_\_\_\_\_

Others (Please List)

---

---

---

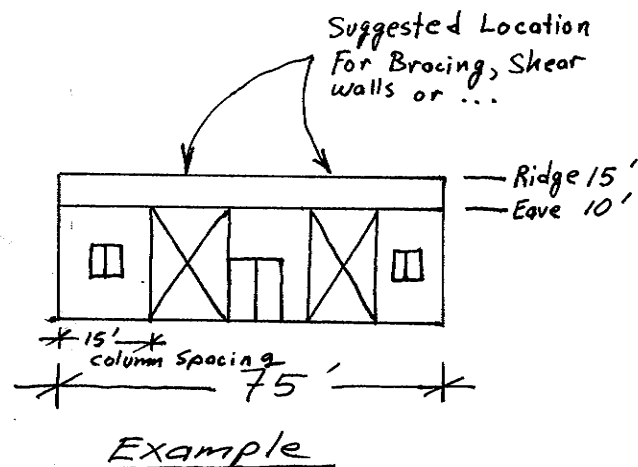
17. Basic Layout of the Proposed Structure.

Provide Architectural Drawings of Proposed Structure OR

Simple Sketches of Proposed Structure of the Building

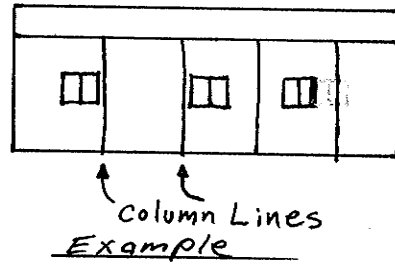
East, West, North, and South Elevations(Give Horizontal and Vertical Dimensions, column locations, foundation locations, locations available for shear walls or bracing if applicable, provide such information on the appropriate view(s) described below.)

East Elevation

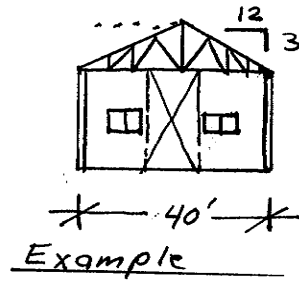




West Elevation



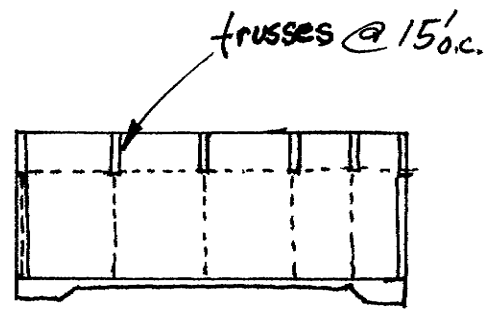
North Elevation



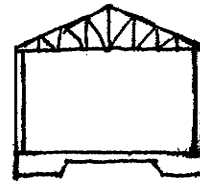
South Elevation

See North, similar  
Example

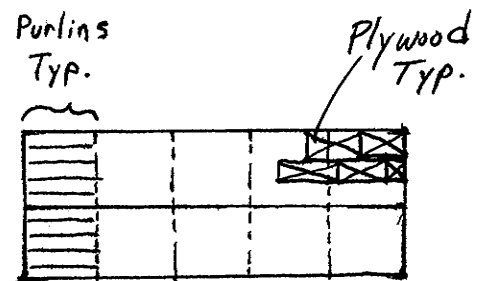
Typical East West Cross-section



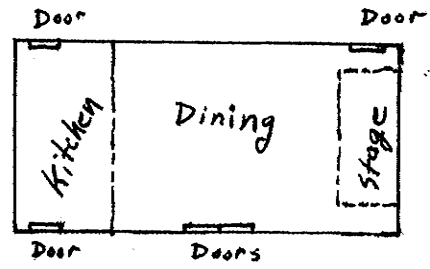
Typical North South Cross-section



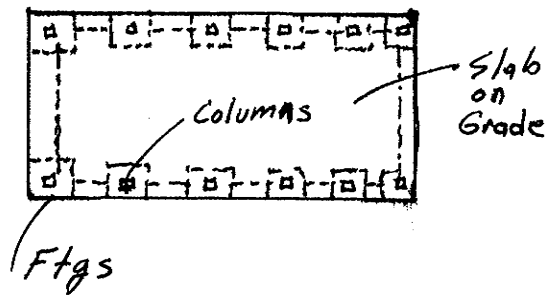
Roof Plan View



Floor Plan View



Foundation Plan View



Other Special Structures

