

1/2" = 1'-0

STRUCTURAL BU	ILC	ING
(IBC 2009, NEV	N J	ERS
Roof Live Load, Lr	=	20 psf
Snow Loads		
Ground Snow Load, Pg	=	20 psf
Snow Importance Factor, Is	=	1.0
Snow Exposure Factor, Ce	=	1.0
Snow Thermal Factor, Ct	=	1.1
Wind Loads (NJ IBC 1609)		
Basic Wind Speed	=	100 m
Exposure Category	=	В
Wind Importance Factor, Iw	=	1.0
Earthquake Loads (NJ IBC 1613)	
Occupancy Category	=	Π
Seismic Design Category	=	В
Sds	=	0.209
Sd1	=	0.053
Soil Profile, Site Class	=	D
Seismic Importance Factor, Ie	=	1.0
Analysis Procedure	=	Equiv
Seismic Force Resisting System	=	Bearir

WOOD NOTES

1. Sawn lumber joists shall be #2 Hem-Fir or better. Wood studs and plates shall be #2 hem-fir or better. Wood posts shall be #2 Southern Yellow Pine or better. Exterior wood posts shall be pressure treated with an appropriate concentration of wood preservative. Interior posts may also be pressure treated. Where a post is not indicated at the ends of headers, beams or lintels, member shall be supported in direct bearing by at least 2 studs spiked together.

2. All wood framing shall conform to the recommended practice of the National Design Specification of the National Forest Products Association. Where appropriate, roof and floor trusses shall be designed, handled and installed in accordance with the Truss Plate Institute's National Design Standard for Meta Plate Connected Wood Truss Construction, latest edition.

3. All framed lumber to lumber connections shall be made with preformed light gage metal wood connectors. Metal wood connectors shall be manufactured by Simpson Strong-Tie unless otherwise approved by the Architect. Metal wood connectors shall be installed in accordance with the manufacturer's recommendations. All framing anchors exposed to the elements or fastened to pressure treated lumber shall be appropriately hot dipped galvanized or formed from stainless steel.

4. Nailing requirements not otherwise specified shall comply with the recommendations in the latest edition of the International Building Code. All roof joists shall be fastened to the top wood plate at its bearing with a hurricane holddown anchor. Unless specified otherwise, minimum holddown anchor shall be a Simpson H2.5 or equal as appropriate for the end condition geometry.

5. Lumber (engineered or dimensional) in contact with or bearing upon foundation walls, masonry or concrete below grade or upon exterior masonry bearing walls shall be preservative treated to inhibit decay. All lumber exposed to the elements shall be preservative treated. Posts or columns resting on concrete slabs, foundations or concrete or masonry walls shall be separated from the masonry and concrete by a bond breaker such as a metal post base.

6. All 2 ply multiple beams of dimensional lumber shall be faced nailed with two rows of 10d nails at 16" on center staggered. Outer plies of 3 ply multiple beams of dimensional lumber shall be faced nailed with two rows of 16d nails at 16" on center staggered. Any additional plies shall be faced nailed to interior plies with two rows of 16d nails at 16" on center staggered. Multiple plies of engineered lumber shall be joined to act as a unit as recommended by the manufacturer.

7. Unless increased requirements are specified elsewhere on these plans, all beams, headers and girders shall be supported by at least one jack stud (direct bearing) and one king stud (full height stud) the same nominal size as the wall in which they are contained. The total number of studs on each side of an opening shall be at least one plus half the number of studs interrupted by the opening unless noted otherwise.

GENERAL NOTES

1. Anchor rods shall conform to ASTM F1554 grade 36 preferably with weldability supplement S1, but A36 or A307 may be substituted with the Engineers approval. All anchors shall be properly and accurately positioned in piers, walls or footings prior to the placement of concrete or grout. Embedded portion of anchor rods shall have formed heads, double nuts or single nuts secured to prevent spin off.

2. All masonry construction shall conform to Building Code Requirements for Masonry, ACI-530, and the Specification for Masonry Structures, ACI 530.1. Precast lintels shall be designed by the manufacturer, shall comply with the previous noted documents and shall have depth and sufficient reinforcement appropriate to the span.

3. All concrete construction shall conform to the Building Code Requirements for Structural Concrete, ACI-318; Specifications for Structural Concrete, ACI-301; and the Guide for Concrete Floor and Slab Construction, ACI-302. Concrete for wearing slabs shall develop a minimum compressive strength (f'c) of 4000 psi at 28 days. All other concrete shall develop a minimum compressive strength of 3000 psi at 28 days. General Contractor shall take appropriate steps and follow ACI recommendations when encountering hot or cold weather concreting.

4. All interior slabs on grade shall be underlain by a minimum 6 mil polyethylene vapor barrier with lapped joints. Concrete exposed to the weather shall have an appropriate amount of air entrainment. Interior troweled surfaces shall not be air entrained.

5. All reinforcing bars shall conform to ASTM A615 grade 60. All welded wire fabric (w.w.f.) shall conform to ASTM A185.

6. Foundation elevations shown are the shallowest believed to provide adequate support and/or protection from frost. Foundations shall rest on undisturbed soil or controlled compacted fill good for 3000 pounds per square foot. Exterior footings shall rest at least 3'-0 below finished grade and all footings shall rest at least 1'-0 below existing grade.

7. Foundations are designed for a soil bearing pressure of 3000 psf. All excavation, sub-grade preparation, placement of fill, if any, and densification shall be performed in accordance with and good industry practice. 8. See architectural drawings for details and dimensions not shown, construction details of all walls, all flashing,

partitions, etcetera.

9. These plans, sections and details describe a structure that may be considered self-supporting after all structural elements are erected, properly secured and/or sufficiently cured. Until that time it is the responsibility of the Contractor to provide appropriate temporary bracing, shores and underpinning to sustain material dead loads and any construction related live loads. It is the responsibility of the General Contractor to coordinate his work with other trades and to ensure all work is performed in a safe and professional manner.

10. These documents shall not be construed to specify the means and methods of construction. 11. These drawings are based on the best available information available at the time of their creation and all work shall be executed in conformity with these drawings. Before proceeding with construction, Genera Contractor shall check and verify all dimensions, elevations and any existing conditions. Discrepancies, if any, are to be reported to the Design Professional for adjustment.

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		LEONARD BU CONSULTI 1239 parkway avenu telephone: 609–771–			
		COMM. NO.	64085	NEW	
		DRAWN	J.H.	IN HIS PRESEN	
		CHECKED	D.B.	176 HARDING HIGHW	
		SCALE	AS NOTED	PLANS	
		DATE	2/27/2015	AND	

GODE CRITERIA SEY EDITION)

ivalent Lateral Force Procedure Bearing Wall System (Light-framed Walls with Wood Structural Panels Rated for Shear Resistance) (R=6.5)

VISIONS

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BUILDING FOR ICE WORSHIP CENTER VAY, FRANKLIN TOWNSHIP, N.J.

DRAWING NUMBER

SECTIONS DETAILS

OF