





INTERNATIONAL RESIDENTIAL CODE 2015 AND 780 CMR MASSACHUSETTS STATE BUILDING CODE AMENDMENTS TO THE INTERNATIONAL RESIDENTIAL CODE 2015 9TH EDITION (ONE AND TWO FAMILY DWELLINGS)

NOTE:
IT IS THE INTENT TO PROVIDE A
CONTINUOUS LOAD PATH, THE
INTERCONNECTION OF ALL FRAMING
ELEMENTS IS CRITICAL TO A
UNID-RESISTIVE BUILDING, A
CONTINUOUS LOAD PATH OF
INTERCONNECTED FRAMING ELEMENTS
FROM FOOTINGS AND FOUNDATION
WALLS TO FLOORS, WALLS, AND ROOF
FRAMING SHALL BE PROVIDED.

1.1 SCOPE

Table R301.2(4) Massachusetts Basic Wind Speeds Town: Bourne Basic Wind Speed; 139 mph

R301.2.1.4 Exposure Category Exposure A; City
Exposure B; Urban, Surburban
Exposure C; Open Terrain
Exposure D; Flat Unobstructed

LOCATION; Exposure B

Table R301.2(5) Massachusetts Ground Snow Loads Town: BOURNE Snow Load; 30 psf

R301.2.1.2 Protection of Openings Windows in wind borne debris regions shall have glazed openings protected from wind borne debris in accordance with Large Missile Test of ASTM E 1996 and of ASTM E 1886. Exception: Wood structural panels, 7/16" x 8"-0", shall be permitted for opening protection in one and two story buildings in accordance with Table R301.2.1.2.

high water line where the basic wind speed is equal to or greater than 130 mph. 2 In areas where the basic wind speed is equal to or greater than 130

1.2 APPLICABILITY 1.2 APPLICABILITY
Height & Area Limitations (Table 503 2009 IBC); R3 Type 5 Unprotected; 3 Stories, Unlimited Square Feet Roof Pitch; 12/12 VARIES
Mean Roof Height; MATCH EXISTING

1.3 FRAMING General framing connections shall be in accordance with 2009 International Residential Code Table R602.3.(1) Fastener Schedule For Structural Members, unless noted.

wernbers, unless noted.

Table R301.5 Minimum Uniformly
Distributed Live Loads
Attics without Storage; 10 psf
Attics with Limited Storage; 20 psf
Hobidable Attics and with Stoirs; 30 ps
Balcanies and Decks; 40 psf
Fire Escapes; 40 psf
Guardrails, Handrails; 200 psf
Guardrails, Handrails; 200 psf
Guardrails in-fill components; 50 psf
Possenger vehicle garage; 50 psf
Rooms other then sleeping; 40 psf
Steirs; 40 psf
Stairs; 40 psf

Table R301.7 loble R301.7
Rofters greater then 3/12; L/180
Interior Wolls; H/180
Floors/Ceilings; L/360
Exterior Wolls, stucco; H/360
Exterior Wolls, brittle; L/240
Exterior Wolls, flexible; L/120

Concrete shall be minimum 3,000 PSI at 28 days.

2.2 NEW FOUNDATION ANCHORAGE 2.2 NeW FOUNDATION ANCHORAGE Provide 5/8" diameter × 15" long x 3" hook anchor bolts ⊚ 48" 0.C. with 3" x 3" x 1/8" plate woshers. Provide one anchor bolt 6" to 12" from each end of plate and one within 12" of corners.

3.1 FLOORS 3.1 FLOURS
The clear span of floor joist shall meet or exceed the values set forth in 2009
IRC. Floor openings shall not exceed the lesser of 12"—0" or 50% of the building
5.3 ROOF SHEATHING dimension, L/2 or W/2.

3.2 FLOOR BRACING 3.2 FLOOR BRACING Blocking and connections shall be provided at panel edges perpendicular to floor framing members in the first two truss or joist spaces and shall be 48" O.C. see Floor Bracing Detail.

4.1 WALLS Loadbearing walls shall not exceed 10'-0" in height. Non-loadbearing walls shall not exceed 20'-0" in height.

4.2 EXTERIOR WALLS
Moximum Loodbearing Stud Length
2x4 #2 at 16" O.C.; 9'-9"
2x6 #2 at 16" O.C.; 9'-9"
Moximum Non-loodbearing Stud Length
2x4 #2 at 16" O.C.; 11"-5"
2x6 #2 at 16" O.C.; 18'-5"

Gable Walls
Shall be braced for a distance of at least 1/3 of the building width with wood structural panels or at least 90% of the building width with gypsum wall board.

4.3 EXTERIOR WALL SHEATHING Provide 7/16" wood structural panel sheathing on all exterior walls as detailed. Provide hold downs as detailed

5.1 ROOF 5.1 KOUP.
Roof span shall not exceed 36'-0".
Roof openings shall not exceed the lesser of 12'-0" or 50% of the building dimension, L/2 or W/2.
Roof Slape shall not be greater than 12/12.

5.2 WOOD RAFTERS
The clear span of rofters shall meet or exceed the values set forth in 2009 IRC. The maximum rafter span shall be limited to 3/4 of ten span permitted for the 20pst roof live load case, not to exceed 26 – 0°. Provide upilit connections at each rafter or truss.

Provide minimum 2x6 collar/rafter ties at 48° 0.C. located in the upper third of the otic space and attached to rafters using 5–10d nails at each end.

5.4 ROOF BRACING ENDWALL 5.4 ROUP BRACING ENDWALL Blocking and connections shall be provided at panel edges perpendicular to roof framing members in the first two truss or rafter spaces and shall be 48" O.C. see Brace Detail.

BONVOULOIR RESIDENCE ADDITION 72 CIRCUIT AVENUE BOURNE, MASSACHUSETTS

LIST OF DRAWINGS

EX1 EXISTING CONDITIONS PLAN

A1 FLOOR PLANS

A2 ELEVATIONS

A3 SECTIONS & DETAILS, EXISTING FOUNDATION PLAN

S1 FRAMING PLANS

S2 FASTENER SCHEDULE, STRUCTURAL CRITERIA

RECEIVED

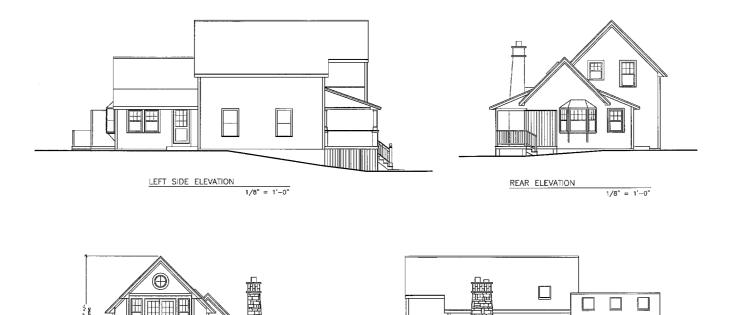
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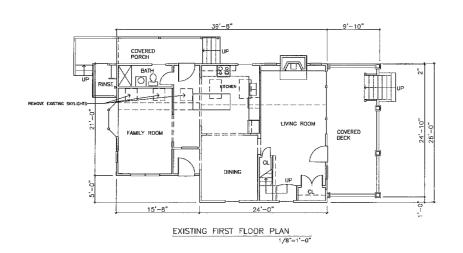
Bourne Health Department 24 Perry Avenue Buzzards Bay, MA 02532

MA 759 \geq 000 E S BONVOULOIR RESIDENCE ADDITION SHEET COVER (REVISIONS

01-08-21

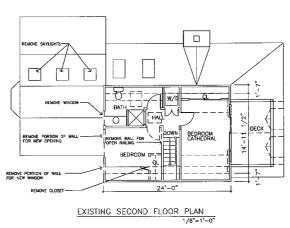
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FRONT ELEVATION

1/8" = 1'-0"



1/8" = 1'-0"

RIGHT SIDE ELEVATION

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The BONVOULOIR RESIDENCE ADDITION

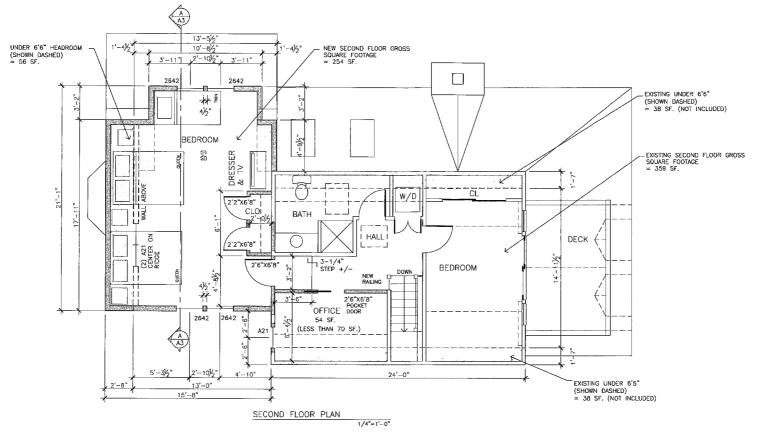
72 CIRCUIT AVENUE BOURNE, MASSACHUSETI'S

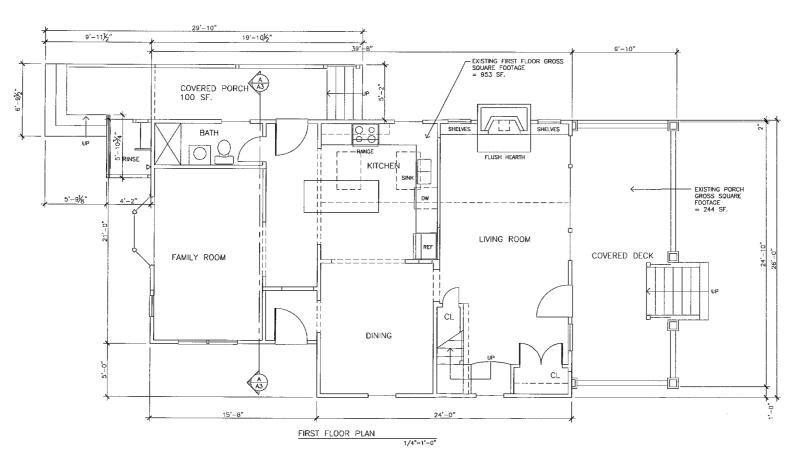
EXISTING CONDITIONS



01-08-21

EX1





LOT SIZE	6,897 S.F.
MAX GROSS FLOOR AREA (25%)	1,724 SF.
ADDITIONAL 10% W/ SPECIAL PERMIT	172 SF.

SQUARE I	FOOTAGE
FIRST FLO	OOR GROSS953 S.F.
SECOND I	FLOOR GROSS359 S.F.
	D SECOND DITTION254 S.F.
PORCH G	ROSS244 S.F.
SHED	80 S.F.
	TOTAL GFA 1,890 S.F. (27.4%)

FINISH NOTES

- 1. FIR WOOD FLOORING TO MATCH EXISTING.
- 2. WOOD DOORS, CASINGS, TRIM TO MATCH EXISTING.
- 3. NEW WINDOWS TO MATCH EXISTING BRAND & FINISH.

GENERAL REQUIREMENTS:

- ALL DIMENSIONS ARE TO FACE OF STUD UNLESS INDICATED OTHERWISE.
- 2 ALL EXTERIOR WALL FRAMING SHALL BE 2x6 CONSTRUCTION AND ALL INTERIOR WALL FRAMING SHALL BE 2x4 CONSTRUCTION UNLESS OTHERWISE NOTED.
- 3 ALL WORK SHALL COMPLY WITH THE INTERNATIONAL RESIDENTIAL CODE 2015 AND 780 CMR 9TH EDITION AND ALL MUNICIPALITY ORDINANCES AND BY-LAWS.
- 4 ALL WORKMANSHIP AND BUILDING MATERIALS SHALL MEET OR EXCEED RECOGNIZED INDUSTRY STANDARDS FOR EACH APPLICABLE TRADE.
- 5 REFER TO OTHER DRAWINGS AS PART OF THIS SET FOR MORE DETAILED REQUIREMENTS REGARDING BUILDING MATERIALS, FOUNDATIONS AND STRUCTURAL DESIGN CRITERIA.
- 6 SMOKE DETECTORS, HEAT DETECTORS AND CARRON MONOXIDE DETECTORS HAVE BEEN SHOWN ON THE PLANS TO COMPLY WITH THE REQUIREMENTS OF 780 CMR 3603.16 FIRE PROTECTION SYSTEMS, HOWEVER THE ARCHITECT BEARS NO RESPONSIBILITY FOR THE DESIGN, FINAL PLACEMENT, OPERATION OR MAINTENANCE PROCEDURES OF THE HOUSEHOLD FIRE WARNING SYSTEM.
- SMOKE DETECTOR
- HEAT DETECTOR
- © CARBON MONOXIDE DETECTOR

Architect:

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BONVOULOIR RESIDENCE ADDITION

FLOOR PLANS

72 CIR BOURNE,

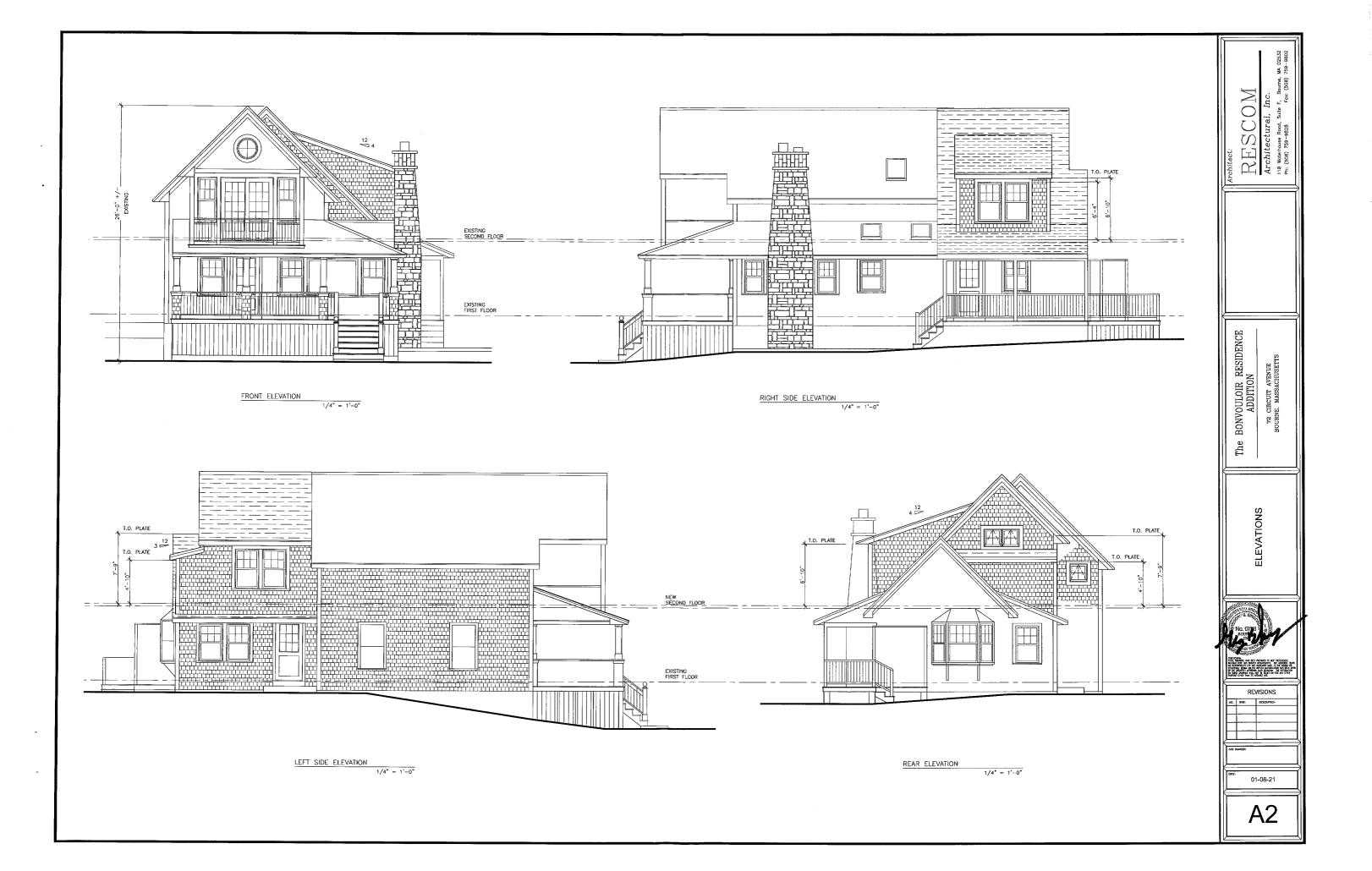


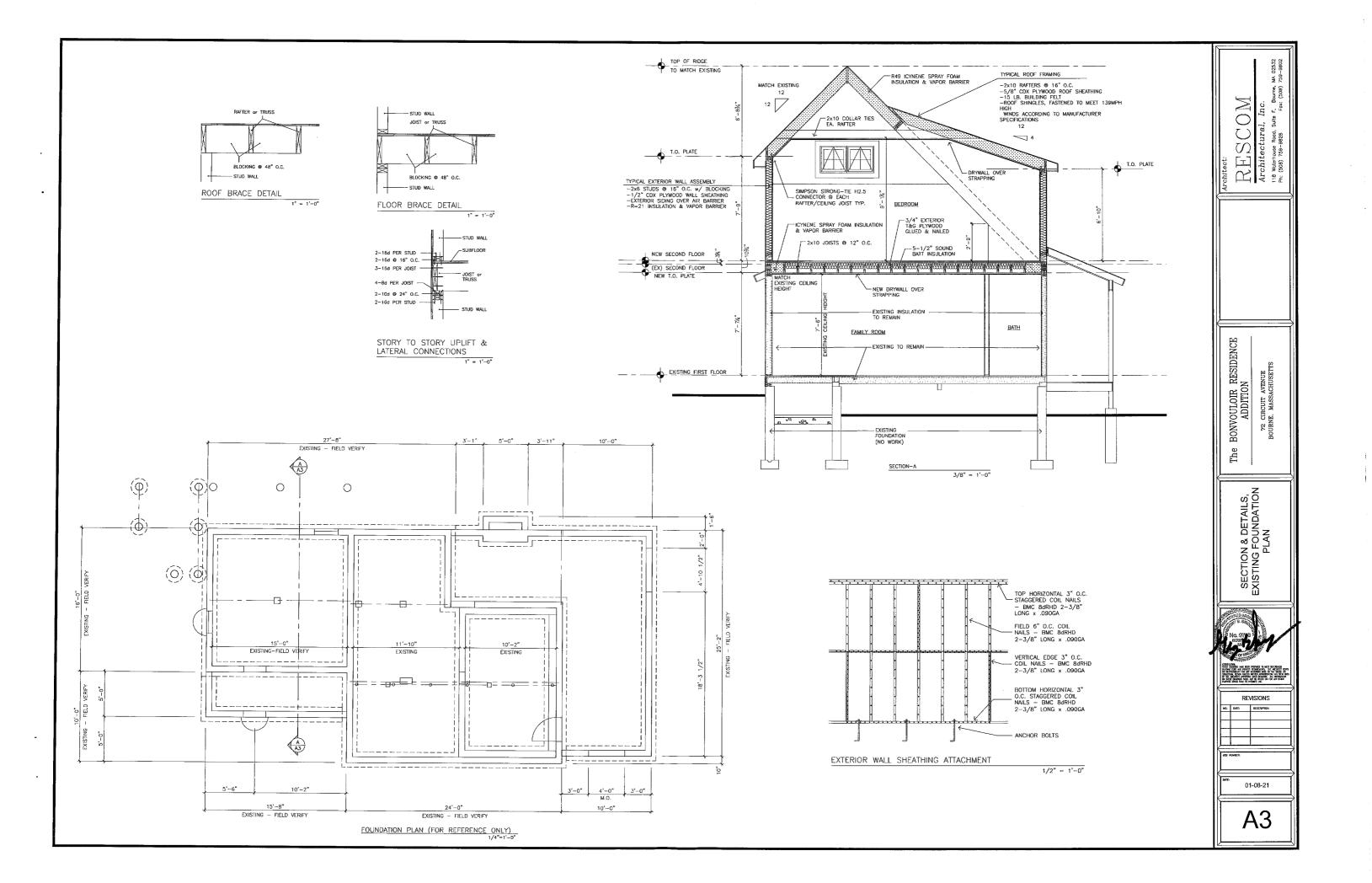
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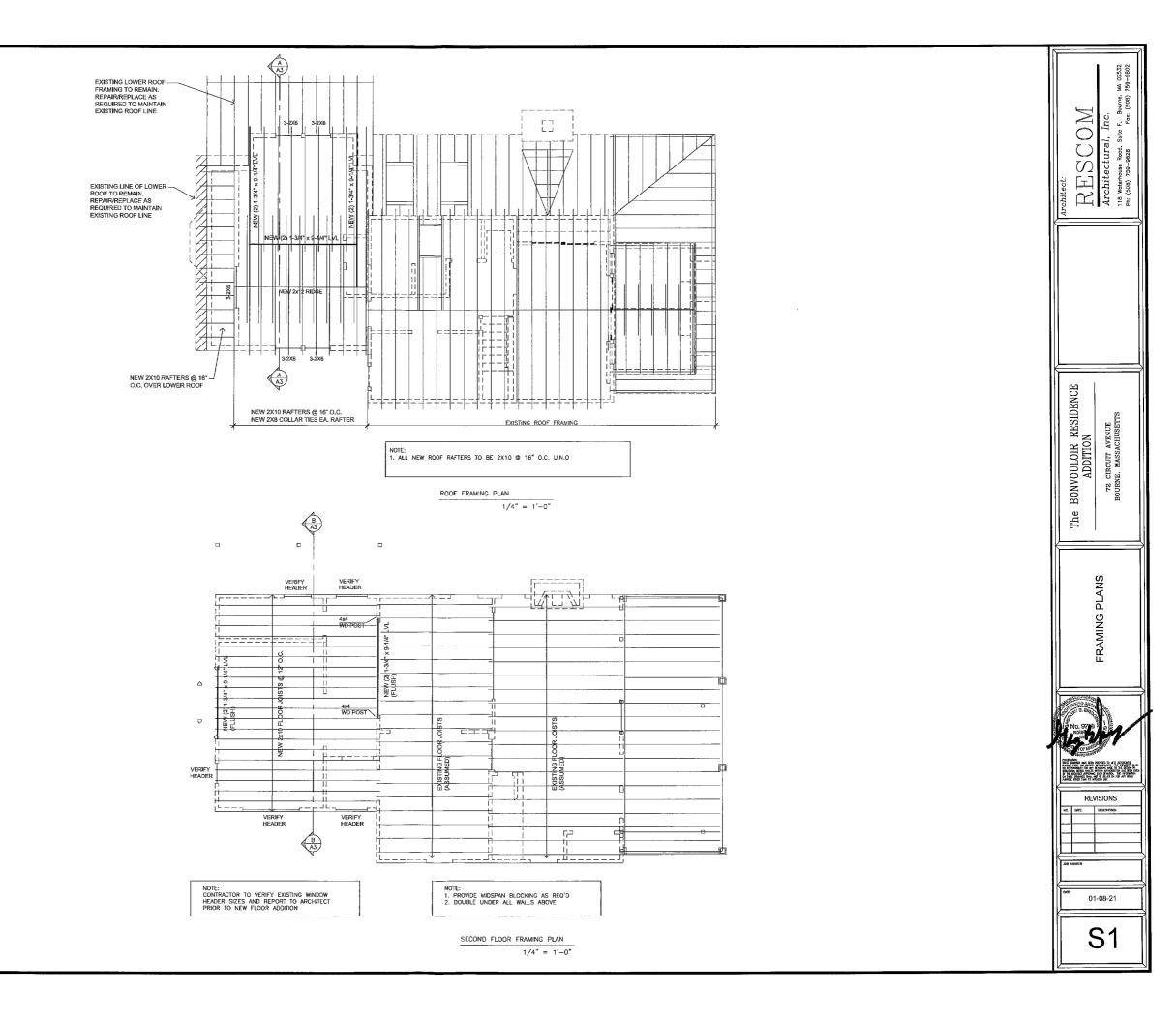
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	FASTENER SCHEDULE FOR STRUCTURAL MEMBERS					
ITEM		NUMBER AND TYPE OF FASTENER a,b,c	SPACING AND LOCATION			
	ROC		т			
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	4-8d BOX (2-1/2" X 0.113") OR 3-8d COMMON (2-1/2" X 0.131") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS	TOE NAIL			
2	CEILING JOISTS TO TOP PLATE	4-8d BOX (2-1/2" X 0.113") OR 3-8d COMMON (2-1/2" X 0.131") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS	PER JOIST, TOE NAIL			
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS [SEE SECTIONS RB02.3.1, RB02.3.2 AND TABLE RB02.5.1(9)]	4-10d BOX (3" X 0,128") OR 3-16d COMMON (3-1/2" X 0,162") OR 4-3"X 0,131" NAILS	FACE NAIL			
4	CEILING JOISTS ATTACHED TO PARALLEL RAFTER, (HEEL JOINT) [SEE SECTIONS R802.3.1, R802.3.2 AND TABLE R802.5.1(9)]	TABLE R802.5.1(9)	FACE NAIL			
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1-1/4 X 20 GAGE RIDGE STRAP TO RAFTER	4-10d BOX (3" X 0.128") OR 3-10d COMMON (3" X 0.148") OR 4-3"X 0.131" NAILS	FACE NAIL EACH RAFTER			
6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX NAILS (3-1/2" X 0.135") OR 3-10d COMMON NAILS (3" X 0.148") OR 4-10d BOX (3" X 0.128") OR 43"X 0.131" NAILS	OR 2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL OF OPPOSITE SIDE OF EACH RAFTER OR TRUSS			
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF	4-16d (3-1/2" X 0.135") OR 3-10d COMMON (3" X 0.148") OR 4-10d BOX (3" X 0.128") OR 4-3"X 0.131" NAILS	TOE NAIL			
	RAFTER TO MINIMUM 2" RIDGE BEAMS	3-16d BOX (3-1/2" X 0.135") OR 2-16d COMMON (3-1/2" X 0.162") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NARLS	END NAIL			
	WAL					
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3-1/2" X 0.162") 10d BOX (3" X 0.128") OR 3"X 0.131" NAILS	24" O.C. FACE NAIL			
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL	3"X 0.131" NAILS 16d BOX (3-1/2" X 0.135") OR 3"X 0.131" NAILS	12" O.C. FACE NAIL			
ĺ	CORNERS (AT BRACED WALL PANELS)	16d COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL			
		16d COMMON (3-1/2" X 0.162")	16" O.C. EACH EDGE			
10	BUILT-UP HEADER (2" TO 2" HEADER W/ ½" SPACER)	16d BOX (3-1/2" X 0.135")	FACE NAIL 12" O.C. EACH EDGE FACE NAIL			
11	CONTINUOUS HEADER TO STUD	5-8d BOX (2-1/2" X 0.113") OR 4-8d COMMON (2-1/2" X 0.131") OR 4-10d BOX (3" X 0.128")	TOE NAIL			
12	TOP PLATE TO TOP PLATE	16d COMMON (3-1/2" X 0.162") 10d BOX (3" X 0.128") OR 3"X 0.131" NALS	16" O.C. FACE NAIL			
-			12" O,C. FACE NAIL			
13	DOUBLE TOP PLATE SPLICE FOR SDCs A-D, WITH SEISMIC BRACED WALL LINE SPACING < 25'	8-16d COMMON (3-1/2" X 0.162") OR 12-16d BOX (3-1/2" X 0.135") OR 12-10d BOX (3" X 0.128") OR 12-3"X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT			
	DOUBLE TOP PLATE SPLICE FOR SDCs D, D, D, AND BRACED WALL LINE SPACING \leq 25'	12-16d (3-1/2" X 0,135")				
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3-1/2" X 0.162") 16d BOX (3-1/2" X 0.135") OR	16" O.C. FACE NAIL			
\dashv		16d BOX (3-1/2" X 0.135") OR 3"X 0.131" NAILS				
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANELS)	2-16d COMMON (3-1/2" X 0.162") OR 4-3"X 0.131" NAILS	3 EA. 16" O.C. FACE NAIL 2 EA. 16" O.C. FACE NAIL 4 EA. 16" O.C. FACE NAIL			
16	TOP OF BOTTOM PLATE TO STUD	4-8d BOX (2-1/2" X 0.113") OR 3-16d BOX (3-1/2" X 0.135") OR 4-8d COMMON (2-1/2" X 0.131") OR 4-10d BOX (3" X 0.128") OR 4-3"X 0.131" NAILS	TOE NAIL			
		3-16d BOX (3-1/2" X 0.135") OR 2-16d COMMON (3-1/2" X 0.162") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS	END NAIL			
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" X 0.128") OR 2-16d COMMON (3-1/2" X 0.162") OR 3-3"X 0.131" NAILS	FACE NAIL			
18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2-1/2" X 0.113") OR 2-8d COMMON (2-1/2" X 0.131") OR 2-10d BOX (3" X 0.128") OR 2 STAPLES 1-3/4"	FACE NAIL			
19	1"X6" SHEATHING TO EACH BEARING	3-8d BOX (2-1/2" X 0.113") OR 2-8d COMMON (2-1/2" X 0.131") OR 2-10d BOX (3" X 0.128") OR 2 STAPLES, 1" CROWN, 16 GA. 1½" LONG	FACE NAIL			
20	1"X8" AND WIDER SHEATHING TO EACH BEARING	3-Bd BOX (2-1/2" X 0.113") OR 3-Bd COMMON (2-1/2" X 0.131") OR 3-105 BOX (3" X 0.128") OR 3 STAPLES, 1" CROWN, 16 GA. 1%" LONG WIDER THAN 1"X8" 4-Bd BOX (2-1/2" X 0.113") OR 3-Bd COMMON (2-1/2" X 0.113") OR 3-104 BOX (3" X 0.128") OR 4-STAPLES, 1" CROWN, 16 GA. 1%" LONG	FACE NAIL			

	FAST	ENER SCHEDULE FOR STR	UCTURAL MEMBERS-CONTINUED				
ITEM	DESCRIPTION OF BUILDING ELEMENTS		NUMBER AND TYPE OF FASTENER a,b,c			SPACING AND LOCATION	
FLOOR							
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-Bd BOX (2-1/2" X 0.113") OR 3-Bd COMMON (2-1/2" X 0.131") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS		TOE NAIL			
		8d BOX (2-1/2" X 0.113")	BOX (2-1/2" X 0.113")		4" O.C. TOE NAIL		
22	RIM JOIST, BAND JOIST DR BLOCKING (ROOF APPLICATIONS ALSO)	Bd COMMON (2-1/2" X 0.131") OR 10d BOX (3" X 0.128") OR 3"X 0.131" NAILS		6" O.C. TOE NAIL			
23	3-8d BOX (2-1/2" X 0.113") OR 1"X6" SUBFLOOR OR LESS TO EACH JOIST 2-8d COMMON (2-1/2" X 0.131") OR 3-10d BOX (3" X 0.128") OR 2 STAPLES, 1" CROWN, 16 GA. 1%" LONG				FACE NAIL		
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16d BOX (3-1/2" X 0.135") OR 2-16d COMMON (3-1/2" X 0.162")		BLIND AND FACE NAIL			
25	2" PLANKS (PLANK & BEAM - FLOOR	3-16d BOX (3-1/2" X 0.135") OR 2-16d COMMON (3-1/2" X 0.162")		AT EACH BEARING, FACE NAIL			
26	BAND OR RIM JOIST TO JOIST		3-16d COMMON (3-1/2" X 0.162") OR 4-10d BOX (3" X 0.128") OR 4-3"X 0.131" NAILS 4-3"X14GA. STAPLES, %6 CROWN		END NAIL		
	27 BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS		20d COMMON (4" X 0.192") OR			NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED	
27			10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS		24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES		
			AND: 2-20d COMMON (4" X D.192") OR 3-10d BOX (3" X 0.128") OR 3-3"X 0.131" NAILS		FACE NAIL AT ENDS AND AT EACH SPLICE		
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS		4-16d BOX (3-1/2" X 0.135") OR 3-16d COMMON (3-1/2" X 0.162") OR 4-10d BOX (3" X 0.128") OR 4-3'X 0.131" NAILS		AT EACH JOIST OR RAFTER, FACE NAIL		
29	BRIDGING TO JOIST 2-10d (3" X 0.128")			EACH END, TOE NAIL			
	FASTEN	ER SCHEDULE FOR STRUC	TURAL MEMBERS - CONTINUED				
				SPACING OF FASTENERS			
TEM	EDGES INTE			INTERMEDIATE SUPPORTS c.e (INCHES)			
		PARTICLEBOARD	ROOF AND INTERIOR WALL SHEATHIN WALL SHEATHING TO FRAMING VAL PANEL EXTERIOR WALL SHEATHI				
CO CONTON (O" V O 117") NAIL (OUDT COO HULL)							

	(see TABLE R60	PARTICLEBOARD WALL SHEATHING TO FRAMING 2.3(3) FOR WOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHIN	G TO WALL FE	RAMING)
30	3/8"-1/2"	6D COMMON (2" X 0.113") NAIL (SUBFLOOR, WALL) ¹ 8D COMMON (2-1/2" X 0.131") NAIL (ROOF)	6	12 ^f
31	19/32"-1"	8D COMMON (2-1/2" X 0.131")	6	12 ^f
32	1-1/8" - 1-1/4"	10D COMMON (3" X 0.148") NAIL OR 8D (2-1/2" X 0.131") DEFORMED NAIL	6	12
		OTHER WALL SHEATHING 9		
33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAM., OR 1" CROWN STAPLE 16GA., 1-1/4" LONG	3	6
34	25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1-3/4" GALYANIZED ROOFING NAIL, 7/16" CROWN OR 1" CROWN STAPLE 16GA, 1-1/4" LONG 3		6
35	1/2" GYPSUM SHEATHING ^d	1-1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE W OR S 7		7
36	5/8" GYPSUM SHEATHING d	1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE W OR S	7	7
	WOOD STRU	CTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRA	AMING	
37	3/4" AND LESS	6D DEFORMED (2" X 0.120") NAIL OR 8D COMMON (2-1/2" X 0.131") NAIL	6	12
38	7/8"1"	8D COMMON (2-1/2" X 0.131") NAIL OR 8D DEFORMED (2-1/2" X 0.120") NAIL	6	12

1-1/8" - 1-1/4"

NOTE:
1 ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED.
2 FOR ADDITION INFORMATION AND FOOTNOTES REFERENCE 2015 IRC TABLE R602.3(1)

10D COMMON (3" X 0.148") NAIL OR 8D DEFORMED (2-1/2" X 0.120") NAIL

RESIDENTIAL BUILDING DESIGN CRITERIA NOTES:

INTERNATIONAL RESIDENTIAL CODE 2015 AND 780 CMR MASSACHUSETTS STATE BUILDING CODE AMENDMENTS TO THE INTERNATIONAL RESIDENTIAL CODE 2015 9th EDITION (ONE AND TWO FAMILY DWELLINGS)

NOTE:

TIS THE INTENT TO PROVIDE A CONTINUOUS LOAD PATH, THE INTERCONNECTION OF ALL FRAMING ELEMENTS IS CRITICAL
TO A WIND—RESISTIVE BUILDING, A CONTINUOUS LOAD PATH OF INTERCONNECTED FRAMING ELEMENTS FROM FOOTINGS AND
FOUNDATION WALLS TO FLOORS, WALLS, AND ROOF FRAMING SHALL BE PROVIDED.

STRUCTURAL DESIGN CRITERIA

1.0 DESIGN CRITERIA:
THE FOLLOWING OUTLINES MINIMUM PERFORMANCE STANDARDS FOR THE PROJECT
AND THE BASIS OUTLINES MINIMUM PERFORMANCS (IF ANY) WILL BE REVIEWED.
1.1 TYPICAL ALTERNATE STANDARDS (FOR REQUIREMENTS NOT OTHERWISE
INDICATED IN THIS SPECIFICATION OR RELATED DRAWINGS): APPLICABLE BUILDING CODE (INCLUDING INDUSTRY STANDARDS REFERENCED THERE-IN) OR PRODUCT MANUFACTURER'S RECOMMENDED STANDARD, WHICHEVER IS THE MORE PROJUCT MANUFACTURERS A RECOMMENDED STANDARD, WHICHEVER IS THE MOKE STRINGENT FOR A PARTICULAR TEM OR CONDITION. 1.2 FEWA 543 DEFINITIONS, WIND BORNE DEBRIS REGIONS WITHIN 1 MILE OF COASTAL MEAN HIGH WATER LINE. LOCATION WITHIN 1 MILE OF COASTAL MEAN HIGH WATER LINE. PROVIDE IMPACT RESISTANT EXTERIOR WINDOWS AND DOORS.

2.0 DEAD LOADS:
2.1 STRUCTURAL SHEATHING:
2.1.1 FLOORS: 3/4" MIN. THICK, T & G, CDX PLY.
2.1.2 EXTERIOR WALLS: 1/2" MIN. EXTERIOR PLYWOOD
2.1.3 ROOPS: 5/8" MIN. EXTERIOR PLYWOOD
2.2 FINISHES: (THE FOLLOWING REPRESENTS STRUCTURAL DESIGN CRITERIA, NOT

2.2.1 FLOOR FINISHES AT ENTRIES, BATHROOMS AND KITCHEN AREAS:
ASSUME THIN-SET CERAMIC TILE OVER 1/2" CEMENT FIBER BOARD

2.2.2 FLOOR FINISHES AT OTHER HABITABLE AREAS: ASSUME 3/4"

HARDWOOD FLOORS.

2.2.3 WALL FINISHES: ASSUME CERAMIC TILE WITH 1/2" CEMENT FIBER BOARD BACKER AT TUB AND SHOWERS; 1/2" BLUEBOARD AND PLASTER ALL

DIHER LOCATIONS.
2.2.4 CEILING FINISHES: ASSUME 1/2" BLUEBOARD AND PLASTER
2.2.5 ROOF FINISHES: ASSUME HEAVY DUTY, ARCHITECTURAL GRADE

ASPHALT SHINGLES.
2.3 MAXIMUM DEAD LOAD OF 10 P.S.F.

3.0 (NOT USED)

4.0 ALLOWABLE DEFLECTION:

4.1 FLOOR/CEILING ASSEMBLIES (INCLUDING SUPPORTING BEAMS) — (NOTE: WINDOWS AND DOORS — ASSUME NAILING TABS AT JAMBS AND HEADS, WITH MANUF, RECOMMENDED HEAD CLEARANGES OF APPROXIMATELY 1/2")

4.1.1 LIVE LOAD DEFLECTION: L/480 UP TO 1/2" MAX

4.1.2 TOTAL LOAD DEFLECTION: L/240 UP TO 3/4" MAX.

5.0 MATERIALS:
5.1 FRAMING DIMENSION LUMBER
LOAD BEARING DIMENSION LUMBER FOR JOISTS, STUDS, PLATES, RAFTERS,
HEADERS, BEAMS AND GROERS ETC. SHALL CONFORM TO 2009 IRC, AND TO
OTHER APPLICABLE STANDARDS OR GRADING RULES AND SHALL BE SO
IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY. THE GRADE MARK OR CERTIFICATE SHALL PROVIDE ADEQUATE INFORMATION TO DETERMINE F6, THE ALLOWABLE STRESS IN BENDING, AND E, THE MODULUS OF ELASTICITY.

5.1.1 ALLOWABLE JOIST SPANS: THE CLEAR SPAN OF FLOOR JOISTS SHALL NOT EXCEED THE VALUES SET FORTH IN TABLES 2009 IRC RSD2.3.1(1) &

R502.3.1(2).

5.1.2 ALLOWABLE SPANS: THE UNSUPPORTED SPANS FOR CEILING JOISTS SHALL NOT EXCEED THE VALUES SET FORTH IN TABLES 209 RC R804.3.1(1), R804.3.1(2) R804.3.1(3), R804.3.1(4), R804.3.1(5), R804.3.1(6), R804.3.1(7), R804.3.1(8). THE UNSUPPORTED SPANS FOR RAFTERS SHALL NOT EXCEED THE VALUES SET FORTH IN TABLES 2009 IRC R802.3.1(1), R802.3.1(2) R802.3.1(3), R802.3.1(4), R802.3.1(5), R802.3.1(6), R802.3.1(7), R802.3.1(8).

5.1.3 PLYWOOD SHEATHING: AND WOOD STRUCTURAL PANELS USED FOR STRUCTURAL PURPOSES SHALL CONFORM TO 2009 IRC TABLE R602.3(3). ALL PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY.

5.1.30 WHERE USED AS SUBFLOORING OR COMBINATION SUBFLOOR UNDERLAYMENT, WOOD STRUCTURAL PANELS SHALL BE OF ONE OF THE GRADES SPECIFIED IN 2009 IRC TABLE R503.2.1(1). WHEN SANDED PLYWOOD IS USED AS A COMBINATION SUBFLOOR UNDERLAYMENT, THE GRADE SHALL BE AS SPECIFIED IN 2009 IRC TABLE R503.2.1(2).

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5.2 ENGINEERED WOOD
ALL BEAMS, HEADERS AND GIRDERS SPECIFIED ON THE PLANS AS LVL BEAMS,
OR COMPOSTE (BUILT-UP) LVL BEAMS, SHALL BE AS MANUFACTURED BY TRUS
JOIST MACMILLAN OR APPROVED EQUIAL ALL SPANS, LOAD CAPACITIES, BEARING
CONDITIONS, AMD FASTEINING SCHEDULES SHALL BE AS REQUIRED BY THE MANUFACTURER.

6.0 INSTALLATION STANDARDS
PROVIDE CONTINUOUS LOAD PATH BETWEEN FOOTINGS, FOUNDATION WALLS,
FLOORS, STUDS AND ROOF FRAMING.
6.1 FRAMING SYSTEM: WESTERN PLATFORM
6.2 WOOD POSTS AND JACKS SUPPORTING WOOD FRAMING
6.2.1 WITHIN 2 X 4 WALL FRAMING: 4 X 4 MIN
6.2.2 WITHIN 2 X 6 WALL FRAMING: 4 X 5, OR 6 X 6 (REFER TO PLANS)
6.2.3 ALL WOOD POSTS SHALL BE CONNECTED TO THE WOOD FRAMING AT TOP
WITH METAL POST CAP A.C. OR A.C.E. BY SIMPSON.

MITH METHL POST ALC BY ALC. BY SIMPSON.
6.3.1 BASE PLATES: SPRINGFIELD BEARING PLATES WELDED TO COLUMN.
6.3.1 BASE PLATES: SPRINGFIELD BEARING PLATES WELDED TO COLUMN.
6.3.2 CAPS (CONNECTING COLUMNS TO WOOD FRAMING): SPRINGFIELD
BEARING PLATES OR SIMPSON "CC" TYPE COLUMN CAPS

6.4 ANCHORS, CONNECTORS AND HANGERS 6.4.1 SIZE, CONFIGURATION, LOCATION AND QUANTITIES TO MEET WIND, EARTHQUAKE AND GRAVITY LOADS.

6.4.2 JOIST HANGERS: TOP FLANGE TYPE (UNLESS NOT FEASIBLE) SHALL BE USED AT ALL CONNECTIONS AS REQUIRED. HANGERS SHALL BE 18 GA. MIN. WITH ALL HOLES FILLED WITH REQUIRED FASTENERS.
6.5 WALL FRAMING ALL EXTERIOR WALLS SHALL BE 2x4 OR 2x6 (AS INDICATED

6.5,1 EXTERIOR WALL SHEATHING SHALL BE FASTENED WITH (SEE SCHEDULE & DETAILS) © INTERIOR SUPPORTS, UNLESS OTHERWISE NOTED ON PLANS (U.O.N.) 6.5.2 2x4 INTERIOR STUD BEARING WALLS SHALL BE 2 X 4 STUDS AT 16 C.C. WITH BLOCKING AT MID HEIGHT FOR WALLS OVER 9 FEET HIGH, AND METAL X-BRACING (SIMPSON STRONG TIE TYPE WB) U.O.N.
6.6 FLOOR AND CEILING FRAMING (UNLESS NOTED OTHERWISE ON ATTACHED

6.6 FLOOR AND CEILING FRAMING (UNLESS NOTED OTHERWISE ON ATTACHED DRAWINGS): DIMENSION LUMBER.
6.6.1 PROVIDE DOUBLE JOISTS BENEATH ALL BEARING PARTITIONS AND AT ALL ROUGH OPENINGS.
6.6.2 PROVIDE SOLID BLOCKING BETWEEN JOISTS AT BEARING WALLS RUNNING PERPENDICULAR TO WALL AND BETWEEN JOISTS TO EITHER SIDE OF PARTITIONS RUNNING PARALLEL TO FRAMING.
6.6.3 PROVIDE SOLID BRIDGING AT 8 FT MAX. O.C.
6.6.4 PLYWOOD SUBPLOOR SHALL BE GLUED AND NAILED WITH 8D NAILS AT 10° O.C. TO INTERMEDIATE SUPPORTS AND 8D NAILS AT 5° O.C. TO PANEL EDGE SUPPORTS.
6.7 RAFTERS (UNLESS NOTED OTHERWISE ON ATTACHED DRAWINGS): DIMENSION LUMBER.

BONVOULOIR RESIDENCE ADDITION The FASTENER SCHEDULE STRUCTURAL DESIGN CRITERIA

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